



Astrodienst Ephemeris Tables for the year 1979

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

ASTRODIENST EPHEMERIS for the year 1979
geocentric

JANUARY 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 40 12	9♂57°55	10♂45	19♂7 7	24♂24	14♂42	7°R 0	13°R54	19♂42	18♂50	19♂6	20°R 4	21♂14	8♂57	5°R 9	M 1
T 2	6 44 9	10°59'06	25°38	20°25	25°16	15°29	6♂53	13♂53	19°45	18°52	19°6	19♂59	21°10	9°3	5♂8	T 2
W 3	6 48 6	12° 0'16	10♂12	21°45	26° 8	16°15	6°47	13°52	19°47	18°54	19°7	19°57	21° 7	9°10	5°7	W 3
T 4	6 52 2	13° 1'26	24°23	23° 6	27° 1	17° 1	6°40	13°51	19°50	18°56	19°8	19°D57	21° 4	9°17	5°6	T 4
F 5	6 55 59	14° 2'36	8♂11	24°28	27°55	17°47	6°33	13°49	19°52	18°58	19°8	19°R57	21° 1	9°24	5°6	F 5
S 6	6 59 55	15° 3'45	21°37	25°51	28°50	18°34	6°26	13°48	19°55	19° 0	19° 9	19°57	20°58	9°30	5°5	S 6
S 7	7 3 52	16° 4'54	4♂43	27°15	29°45	19°20	6°19	13°47	19°57	19° 3	19°10	19°55	20°54	9°37	5°5	S 7
M 8	7 7 48	17° 6'03	17°33	28°40	0♂40	20° 7	6°12	13°45	20° 0	19° 5	19°10	19°51	20°51	9°44	5°4	M 8
T 9	7 11 45	18° 7'11	0♂9	0♂5	1°37	20°53	6° 4	13°44	20° 2	19° 7	19°11	19°44	20°48	9°50	5°4	T 9
W10	7 15 41	19° 8'19	12°34	1°31	2°33	21°40	5°57	13°42	20° 5	19° 9	19°11	19°35	20°45	9°57	5°3	W10
T 11	7 19 38	20° 9'27	24°49	2°58	3°31	22°26	5°50	13°40	20° 7	19°11	19°11	19°24	20°42	10° 4	5°3	T 11
F 12	7 23 35	21°10'34	6♂56	4°26	4°29	23°13	5°42	13°38	20° 9	19°13	19°12	19°12	20°39	10°10	5°3	F 12
S 13	7 27 31	22°11'41	18°57	5°54	5°27	23°59	5°34	13°36	20°12	19°15	19°12	19° 1	20°35	10°17	5°3	S 13
S 14	7 31 28	23°12'47	0♂51	7°23	6°26	24°46	5°27	13°34	20°14	19°17	19°12	18°50	20°32	10°24	5°3	S 14
M15	7 35 24	24°13'53	12°42	8°53	7°25	25°33	5°19	13°32	20°16	19°19	19°13	18°42	20°29	10°30	5°D 3	M15
T 16	7 39 21	25°14'59	24°31	10°23	8°25	26°19	5°11	13°30	20°18	19°21	19°13	18°36	20°26	10°37	5°3	T 16
W17	7 43 17	26°16'04	6♂19	11°53	9°25	27° 6	5° 3	13°27	20°20	19°22	19°13	18°33	20°23	10°44	5°3	W17
T 18	7 47 14	27°17'09	18°11	13°25	10°26	27°53	4°56	13°25	20°22	19°24	19°13	18°D32	20°20	10°50	5°3	T 18
F 19	7 51 10	28°18'13	0♂10	14°56	11°27	28°40	4°48	13°22	20°24	19°26	19°13	18°33	20°16	10°57	5°3	F 19
S 20	7 55 7	29°19'18	12°20	16°29	12°29	29°27	4°40	13°19	20°26	19°28	19°13	18°34	20°13	11° 4	5°3	S 20
S 21	7 59 4	0♂20'21	24°48	18° 1	13°30	0♂13	4°32	13°17	20°28	19°30	19°13	18°R35	20°10	11°10	5°4	S 21
M22	8 3 0	1°21'25	7♂36	19°35	14°33	1° 0	4°24	13°14	20°30	19°32	19°R13	18°35	20° 7	11°17	5°4	M22
T 23	8 6 57	2°22'28	20°50	21° 9	15°35	1°47	4°16	13°11	20°31	19°34	19°13	18°33	20° 4	11°24	5°4	T 23
W24	8 10 53	3°23'31	4♂33	22°43	16°38	2°34	4° 8	13° 8	20°33	19°35	19°13	18°30	20° 0	11°30	5°5	W24
T 25	8 14 50	4°24'33	18°46	24°19	17°41	3°21	4° 0	13° 5	20°35	19°37	19°13	18°24	19°57	11°37	5°5	T 25
F 26	8 18 46	5°25'35	3♂25	25°54	18°45	4° 8	3°51	13° 1	20°36	19°39	19°13	18°18	19°54	11°44	5°6	F 26
S 27	8 22 43	6°26'36	18°27	27°31	19°49	4°55	3°43	12°58	20°38	19°40	19°13	18°11	19°51	11°50	5°7	S 27
S 28	8 26 40	7°27'36	3♂42	29° 8	20°53	5°42	3°35	12°55	20°39	19°42	19°13	18° 5	19°48	11°57	5°7	S 28
M29	8 30 36	8°28'36	18°59	0♂46	21°57	6°29	3°27	12°51	20°41	19°44	19°13	18° 0	19°45	12° 4	5°8	M29
T 30	8 34 33	9°29'34	4♂8	2°24	23° 2	7°16	3°19	12°58	20°42	19°45	19°12	17°57	19°41	12°10	5°9	T 30
W31	8 38 29	10°30'32	19♂0	4♂3	24♂7	8♂3	3♂12	12♂44	20♂44	19♂47	19♂12	17°D57	19♂38	12♂17	5♂10	W31

Day	☉	☽		♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♂
M 1	23s 4	14s27	3n12	21s54	1n 6	15s15	3n44	23s33	0s56	19n 5	0n35	8n 3	1n51	17s20	0n20	21s36	1n23	8n18	17n 2	3n56
T 2	22 59	11 0	2 5	22 8	0 58	15 26	3 45	23 29	0 56	19 7	0 35	8 3	1 51	17 21	0 20	21 36	1 23	8 19	17 3	3 58
W 3	22 54	6 57	0 52	22 22	0 49	15 37	3 46	23 23	0 57	19 9	0 36	8 4	1 52	17 22	0 20	21 36	1 23	8 19	17 4	3 59
T 4	22 48	2 36	0s24	22 35	0 41	15 49	3 47	23 18	0 57	19 11	0 36	8 5	1 52	17 22	0 20	21 36	1 23	8 19	17 4	3 59
F 5	22 42	1n47	1 36	22 47	0 33	16 0	3 47	23 12	0 57	19 13	0 36	8 5	1 52	17 23	0 20	21 36	1 23	8 19	17 5	3 59
S 6	22 35	5 57	2 40	22 58	0 25	16 12	3 47	23 6	0 58	19 15	0 36	8 6	1 52	17 24	0 20	21 36	1 23	8 20	17 5	3 59
S 7	22 28	9 43	3 35	23 8	0 17	16 23	3 48	23 0	0 58	19 17	0 36	8 7	1 53	17 24	0 20	21 37	1 23	8 20	17 6	3 59
M 8	22 21	12 57	4 17	23 17	0 9	16 35	3 47	22 54	0 58	19 19	0 36	8 7	1 53	17 25	0 20	21 37	1 23	8 20	17 6	4 1
T 9	22 13	15 31	4 47	23 25	0 1	16 46	3 47	22 47	0 59	19 21	0 37	8 8	1 53	17 26	0 20	21 37	1 23	8 21	17 7	4 4
W10	22 4	17 19	5 2	23 32	0s 7	16 58	3 47	22 40	0 59	19 23	0 37	8 9	1 53	17 26	0 20	21 37	1 23	8 21	17 8	4 7
T 11	21 56	18 18	5 3	23 38	0 14	17 9	3 46	22 33	0 59	19 25	0 37	8 10	1 54	17 27	0 20	21 37	1 23	8 22	17 8	4 12
F 12	21 46	18 26	4 50	23 43	0 21	17 21	3 45	22 25	0 59	19 27	0 37	8 11	1 54	17 28	0 20	21 37	1 23	8 22	17 9	4 16
S 13	21 37	17 44	4 24	23 47	0 28	17 32	3 44	22 17	1 0	19 29	0 37	8 12	1 54	17 28	0 20	21 37	1 23	8 22	17 9	4 21
S 14	21 27	16 16	3 47	23 49	0 35	17 43	3 43	22 9	1 0	19 31	0 37	8 13	1 54	17 29	0 20	21 38	1 23	8 23	17 10	4 25
M15	21 16	14 7	3 0	23 51	0 42	17 54	3 42	22 1	1 0	19 33	0 38	8 14	1 55	17 29	0 20	21 38	1 23	8 23	17 11	4 28
T 16	21 5	11 23	2 6	23 50	0 49	18 5	3 40	21 53	1 0	19 35	0 38	8 15	1 55	17 30	0 20	21 38	1 23	8 24	17 11	4 30
W17	20 54	8 11	1 5	23 49	0 55	18 15	3 39	21 44	1 1	19 37	0 38	8 16	1 55	17 30	0 20	21 38	1 23	8 24	17 12	4 32
T 18	20 42	4 39	0 2	23 47	1 1	18 26	3 37	21 35	1 1	19 39	0 38	8 18	1 55	17 31	0 20	21 38	1 23	8 25	17 12	4 32
F 19	20 30	0 53	1n 2	23 43	1 7	18 36	3 35	21 26	1 1	19 41	0 38	8 19	1 56	17 31	0 20	21 38	1 23	8 25	17 13	4 32
S 20	20 18	2s57	2 5	23 37	1 13	18 46	3 33	21 16	1 1	19 43	0 38	8 20	1 56	17 32	0 20	21 38	1 23	8 26	17 14	4 31
S 21	20 5	6 46	3 3	23 31	1 18	18 56	3 31	21 6	1 2	19 45	0 38	8 21	1 56	17 32	0 20	21 39	1 23	8 26	17 14	4 31
M22	19 51	10 21	3 54	23 23	1 23	19 5	3 29	20 56	1 2	19 47	0 39	8 23	1 56	17 33	0 20	21 39	1 23	8 27	17 15	4 31
T 23	19 38	13 33	4 34	23 14	1 28	19 14	3 27	20 46	1 2	19 49	0 39	8 24	1 56	17 33	0 20	21 39	1 23	8 27	17 15	4 32
W24	19 24	16 8	5 0	23 3	1 33	19 23	3 24	20 36	1 2	19 51	0 39	8 25	1 57	17 34	0 20	21 39	1 23	8 28	17 16	4 33
T 25	19 9	17 50	5 9	22 51	1 37	19 31	3 22	20 25	1 2	19 53	0 39	8 27	1 57	17 34	0 20	21 39	1 23	8 28	17 16	4 35
F 26	18 55	18 25	4 59	22 37	1 41	19 39	3 19	20 14	1 3	19 55	0 39	8 28	1 57	17 35	0 20	21 39	1 23	8 29	17 17	4 38
S 27	18 40	17 45	4 28	22 23	1 45	19 47	3 16	20 3	1 3	19 57	0 39	8 30	1 57	17 35	0 20	21 39	1 23	8 30	17 18	4 40
S 28	18 24	15 48	3 37	22 6	1 49	19 55	3 13	19 52	1 3	19 59	0 39	8 31	1 57	17 35	0 20	21 39	1 23	8 30	17 18	4 43
M29	18 9	12 44	2 31	21 48	1 52	20 2	3 11	19 40	1 3	20 1	0 39	8 33	1 58	17 36	0 20	21 39	1 23	8 31	17 19	4 45
T 30	17 53	8 50	1 15	21 29	1 55	20 8	3 7	19 28	1 3	20 3	0 40	8 34	1 58	17 36	0 20	21 39	1 23	8 31	17 19	4 46
W31	17s36	4s27	0s 6	21s 9	1s57	20s14	3n 4	19s16	1s 3	20n 5	0n40	8n36	1n58	17s37	0n20	21s40	1n23	8n32	17n20	4n46

Julian Day Number = 2443874.5, Delta T = 49.59 sec
Ecliptic obliquity = 23°26'21", Nutation = - 0°00'02", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°26'49", Lahiri = 23°33'49"

ASTRODIENST EPHEMERIS for the year 1979

geocentric

FEBRUARY 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 26	11°31'27	3°28	5°43	25°12	8°51	3°R 4	12°R40	20°45	19°49	19°R12	17°57	19°35	12°24	5°11	T 1
F 2	8 46 22	12°32'22	17°30	7°23	26°17	9°38	2°56	12°37	20°46	19°50	19°11	17°59	19°32	12°30	5°12	F 2
S 3	8 50 19	13°33'16	18°5	9°4	27°23	10°25	2°48	12°33	20°47	19°52	19°11	18°0	19°29	12°37	5°13	S 3
S 4	8 54 15	14°34'08	14°16	10°46	28°28	11°12	2°40	12°29	20°49	19°53	19°10	18°R 1	19°26	12°44	5°14	S 4
M 5	8 58 12	15°34'58	27°5	12°29	29°34	11°59	2°33	12°25	20°50	19°55	19°10	18°0	19°22	12°50	5°15	M 5
T 6	9 2 8	16°35'47	9°36	14°12	0°41	12°46	2°25	12°21	20°51	19°56	19°9	17°58	19°19	12°57	5°17	T 6
W 7	9 6 5	17°36'35	21°52	15°56	1°47	13°34	2°17	12°17	20°52	19°58	19°9	17°55	19°16	13°4	5°18	W 7
T 8	9 10 2	18°37'22	3°58	17°41	2°54	14°21	2°10	12°13	20°53	19°59	19°8	17°50	19°13	13°11	5°19	T 8
F 9	9 13 58	19°38'06	15°56	19°27	4°1	15°8	2°3	12°8	20°53	20°0	19°8	17°45	19°10	13°17	5°21	F 9
S 10	9 17 55	20°38'50	27°49	21°13	5°8	15°55	1°55	12°4	20°54	20°2	19°7	17°40	19°6	13°24	5°22	S 10
S 11	9 21 51	21°39'32	9°39	23°0	6°15	16°43	1°48	12°0	20°55	20°3	19°6	17°35	19°3	13°31	5°24	S 11
M12	9 25 48	22°40'13	21°28	24°48	7°22	17°30	1°41	11°56	20°56	20°4	19°6	17°32	19°0	13°37	5°25	M12
T 13	9 29 44	23°40'52	3°19	26°36	8°30	18°17	1°34	11°51	20°56	20°6	19°5	17°29	18°57	13°44	5°27	T 13
W14	9 33 41	24°41'30	15°12	28°26	9°38	19°4	1°27	11°47	20°57	20°7	19°4	17°D29	18°54	13°51	5°29	W14
T 15	9 37 37	25°42'06	27°11	0°15	10°45	19°52	1°20	11°42	20°58	20°8	19°3	17°29	18°51	13°57	5°30	T 15
F 16	9 41 34	26°42'41	9°17	2°6	11°53	20°39	1°14	11°38	20°58	20°9	19°3	17°30	18°47	14°4	5°32	F 16
S 17	9 45 31	27°43'15	21°35	3°57	13°2	21°26	1°7	11°33	20°59	20°10	19°2	17°32	18°44	14°11	5°34	S 17
S 18	9 49 27	28°43'48	4°6	5°48	14°10	22°14	1°1	11°28	20°59	20°11	19°1	17°33	18°41	14°17	5°36	S 18
M19	9 53 24	29°44'19	16°55	7°39	15°18	23°1	0°55	11°24	20°59	20°12	19°0	17°34	18°38	14°24	5°38	M19
T 20	9 57 20	0°44'49	0°1	9°31	16°27	23°48	0°48	11°19	21°0	20°13	18°59	17°R35	18°35	14°31	5°40	T 20
W21	10 1 17	1°45'18	13°39	11°22	17°36	24°36	0°42	11°14	21°0	20°15	18°58	17°34	18°32	14°37	5°42	W21
T 22	10 5 13	2°45'46	27°38	13°13	18°45	25°23	0°37	11°10	21°0	20°16	18°57	17°33	18°28	14°44	5°44	T 22
F 23	10 9 10	3°46'12	12°3	15°3	19°54	26°10	0°31	11°5	21°0	20°16	18°56	17°32	18°25	14°51	5°46	F 23
S 24	10 13 6	4°46'37	26°46	16°53	21°3	26°58	0°25	11°0	21°R 0	20°17	18°55	17°30	18°22	14°57	5°48	S 24
S 25	10 17 3	5°47'01	11°47	18°41	22°12	27°45	0°20	10°55	21°0	20°18	18°54	17°29	18°19	15°4	5°51	S 25
M26	10 21 0	6°47'22	20°28	23°21	28°32	0°15	10°51	21°0	20°19	18°53	17°28	18°16	15°11	5°53	5°53	M26
T 27	10 24 56	7°47'43	12°3	22°13	24°31	29°20	0°10	10°46	21°0	20°20	18°52	17°D27	18°12	15°17	5°55	T 27
W28	10 28 53	8°48'01	26°59	23°55	25°40	0°1	0°5	10°41	21°0	20°21	18°50	17°27	18°9	15°24	5°58	W28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	17s20	0n 6	1s24	20s46	2s 0	20s20	3n 1	19s 4	1s 4	20n 7	0n40	8n37	1n58	17s37	0n20	21s40
F 2	17 3	4 29	2 34	20 23	2 1	20 25	2 58	18 52	1 4	20 9	0 40	8 39	1 58	17 37	0 20	21 40
S 3	16 45	8 30	3 34	19 58	2 3	20 30	2 55	18 39	1 4	20 11	0 40	8 41	1 59	17 37	0 20	21 40
S 4	16 28	11 58	4 20	19 31	2 4	20 35	2 51	18 26	1 4	20 13	0 40	8 42	1 59	17 38	0 20	21 40
M 5	16 10	14 46	4 52	19 3	2 5	20 39	2 48	18 13	1 4	20 15	0 40	8 44	1 59	17 38	0 20	21 40
T 6	15 52	16 47	5 9	18 34	2 5	20 42	2 44	18 0	1 4	20 16	0 40	8 46	1 59	17 38	0 20	21 40
W 7	15 33	18 0	5 12	18 3	2 5	20 45	2 40	17 47	1 4	20 18	0 40	8 48	1 59	17 39	0 20	21 40
T 8	15 15	18 22	5 1	17 30	2 4	20 48	2 37	17 33	1 4	20 20	0 40	8 49	2 0	17 39	0 20	21 40
F 9	14 56	17 55	4 36	16 57	2 3	20 50	2 33	17 19	1 5	20 22	0 40	8 51	2 0	17 39	0 20	21 40
S 10	14 37	16 41	4 0	16 21	2 2	20 51	2 29	17 6	1 5	20 23	0 41	8 53	2 0	17 39	0 20	21 40
S 11	14 17	14 44	3 13	15 44	2 0	20 52	2 25	16 51	1 5	20 25	0 41	8 55	2 0	17 39	0 20	21 40
M12	13 57	12 10	2 18	15 6	1 57	20 53	2 22	16 37	1 5	20 27	0 41	8 56	2 0	17 40	0 20	21 40
T 13	13 38	9 5	1 17	14 26	1 54	20 53	2 18	16 23	1 5	20 28	0 41	8 58	2 0	17 40	0 20	21 41
W14	13 17	5 38	0 13	13 45	1 51	20 52	2 14	16 8	1 5	20 30	0 41	9 0	2 0	17 40	0 20	21 41
T 15	12 57	1 56	0n53	13 3	1 47	20 51	2 10	15 53	1 5	20 32	0 41	9 2	2 1	17 40	0 20	21 41
F 16	12 37	1s53	1 58	12 19	1 42	20 49	2 6	15 38	1 5	20 33	0 41	9 4	2 1	17 40	0 20	21 41
S 17	12 16	5 40	2 58	11 34	1 37	20 47	2 2	15 23	1 5	20 35	0 41	9 6	2 1	17 40	0 20	21 41
S 18	11 55	9 16	3 50	10 48	1 31	20 44	1 58	15 8	1 5	20 36	0 41	9 8	2 1	17 40	0 20	21 41
M19	11 34	12 32	4 33	10 0	1 25	20 41	1 53	14 52	1 5	20 37	0 41	9 9	2 1	17 40	0 20	21 41
T 20	11 13	15 15	5 2	9 12	1 17	20 37	1 49	14 37	1 5	20 39	0 41	9 11	2 1	17 41	0 21	21 41
W21	10 51	17 13	5 16	8 23	1 10	20 33	1 45	14 21	1 5	20 40	0 41	9 13	2 1	17 41	0 21	21 41
T 22	10 29	18 13	5 12	7 32	1 1	20 28	1 41	14 5	1 5	20 41	0 41	9 15	2 1	17 41	0 21	21 41
F 23	10 8	18 6	4 48	6 41	0 52	20 22	1 37	13 49	1 5	20 43	0 41	9 17	2 2	17 41	0 21	21 41
S 24	9 46	16 47	4 6	5 50	0 42	20 16	1 33	13 33	1 5	20 44	0 41	9 19	2 2	17 41	0 21	21 41
S 25	9 23	14 17	3 5	4 58	0 32	20 9	1 29	13 16	1 5	20 45	0 41	9 21	2 2	17 41	0 21	21 41
M26	9 1	10 47	1 52	4 6	0 21	20 2	1 24	13 0	1 5	20 46	0 41	9 23	2 2	17 41	0 21	21 41
T 27	8 39	6 35	0 30	3 14	0 9	19 54	1 20	12 43	1 5	20 47	0 41	9 25	2 2	17 41	0 21	21 41
W28	8s16	2s 0	0s53	2s22	0n 3	19s46	1n16	12s27	1s 5	20n48	0n41	9n27	2n 2	17s41	0n21	21s41

Julian Day Number = 2443905.5, Delta T = 49.67 sec

Ecliptic obliquity = 23°26'22, Nutation = - 0°00'02, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°26'53, Lahiri = 23°33'54

ASTRODIENST EPHEMERIS for the year 1979

geocentric

MARCH 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 32 49	9♂48'17	11♂37	25♂34	26♂50	0♂54	29°R59	10°R36	21°R 0	20♂22	18°R49	17♂28	18♂ 6	15♂31	6♂ 0	T 1
F 2	10 36 46	10°48'32	25°51	27°10	28° 0	1°42	29♂55	10♂31	20♂59	20°22	18♂48	17°28	18° 3	15°37	6° 2	F 2
S 3	10 40 42	11°48'45	9♂38	28°42	29°10	2°29	29°51	10°27	20°59	20°23	18°47	17°29	18° 0	15°44	6° 5	S 3
S 4	10 44 39	12°48'55	22°58	0♂ 9	0♂20	3°16	29°47	10°22	20°59	20°24	18°46	17°29	17°57	15°51	6° 7	S 4
M 5	10 48 35	13°49'04	5♂54	1°30	1°29	4° 4	29°43	10°17	20°58	20°24	18°44	17°30	17°53	15°57	6°10	M 5
T 6	10 52 32	14°49'10	18°27	2°46	2°40	4°51	29°39	10°12	20°58	20°25	18°43	17°R30	17°50	16° 4	6°13	T 6
W 7	10 56 29	15°49'14	0♂43	3°56	3°50	5°38	29°35	10° 7	20°57	20°25	18°42	17°30	17°47	16°11	6°15	W 7
T 8	11 0 25	16°49'16	12°47	4°58	5° 0	6°26	29°32	10° 3	20°56	20°26	18°40	17°30	17°44	16°17	6°18	T 8
F 9	11 4 22	17°49'16	24°41	5°54	6°10	7°13	29°28	9°58	20°56	20°26	18°39	17°D30	17°41	16°24	6°21	F 9
S 10	11 8 18	18°49'14	6♂30	6°41	7°21	8° 0	29°25	9°53	20°55	20°27	18°37	17°30	17°37	16°31	6°24	S 10
S 11	11 12 15	19°49'10	18°18	7°20	8°31	8°48	29°22	9°49	20°54	20°27	18°36	17°30	17°34	16°37	6°27	S 11
M12	11 16 11	20°49'04	0♂ 9	7°51	9°42	9°35	29°19	9°44	20°54	20°28	18°35	17°30	17°31	16°44	6°29	M12
T 13	11 20 8	21°48'55	12° 4	8°13	10°52	10°22	29°17	9°39	20°53	20°28	18°33	17°R30	17°28	16°51	6°32	T 13
W14	11 24 4	22°48'45	24° 5	8°27	12° 3	11° 9	29°14	9°35	20°52	20°28	18°32	17°30	17°25	16°57	6°35	W14
T 15	11 28 1	23°48'33	6♂16	8°R31	13°14	11°57	29°12	9°30	20°51	20°29	18°30	17°30	17°22	17° 4	6°38	T 15
F 16	11 31 57	24°48'19	18°36	8°28	14°24	12°44	29°10	9°25	20°50	20°29	18°29	17°29	17°18	17°11	6°41	F 16
S 17	11 35 54	25°48'02	1♂ 9	8°15	15°35	13°31	29° 8	9°21	20°49	20°29	18°27	17°28	17°15	17°17	6°44	S 17
S 18	11 39 51	26°47'45	13°55	7°56	16°46	14°18	29° 7	9°16	20°48	20°29	18°26	17°27	17°12	17°24	6°47	S 18
M19	11 43 47	27°47'25	26°55	7°28	17°57	15° 5	29° 5	9°12	20°47	20°30	18°24	17°26	17° 9	17°31	6°50	M19
T 20	11 47 44	28°47'04	10♂11	6°54	19° 8	15°52	29° 4	9° 8	20°45	20°30	18°23	17°25	17° 6	17°37	6°54	T 20
W21	11 51 40	29°46'41	23°44	6°15	20°19	16°40	29° 3	9° 3	20°44	20°30	18°21	17°D24	17° 3	17°44	6°57	W21
T 22	11 55 37	0♂46'16	7♂34	5°30	21°31	17°27	29° 2	8°59	20°43	20°30	18°20	17°24	16°59	17°51	7° 0	T 22
F 23	11 59 33	1°45'49	21°43	4°42	22°42	18°14	29° 1	8°55	20°42	20°R30	18°18	17°25	16°56	17°57	7° 3	F 23
S 24	12 3 30	2°45'21	6♂ 7	3°51	23°53	19° 1	29° 1	8°51	20°40	20°30	18°16	17°26	16°53	18° 4	7° 7	S 24
S 25	12 7 26	3°44'51	20°44	2°58	25° 4	19°48	29° 0	8°46	20°39	20°30	18°15	17°27	16°50	18°11	7°10	S 25
M26	12 11 23	4°44'19	5♂30	2° 5	26°16	20°35	29°D 0	8°42	20°37	20°30	18°13	17°28	16°47	18°17	7°13	M26
T 27	12 15 20	5°43'46	20°18	1°13	27°27	21°22	29° 0	8°38	20°36	20°30	18°11	17°R28	16°43	18°24	7°17	T 27
W28	12 19 16	6°43'10	5♂ 1	0°22	28°39	22° 9	29° 1	8°34	20°34	20°29	18°10	17°28	16°40	18°30	7°20	W28
T 29	12 23 13	7°42'32	19°32	29♂33	29°50	22°56	29° 1	8°30	20°33	20°29	18° 8	17°26	16°37	18°37	7°23	T 29
F 30	12 27 9	8°41'52	3♂45	28°48	1♂ 2	23°43	29° 2	8°27	20°31	20°29	18° 7	17°23	16°34	18°44	7°27	F 30
S 31	12 31 6	9♂41'10	17♂36	28♂ 7	2♂13	24♂30	29♂ 3	8♂23	20♂29	20♂29	18♂ 5	17♂20	16♂31	18♂50	7♂30	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s54	2n36	2s10	1s32	0n15	19s37	1n12	12s10	1s 5	20n50	0n41	9n28	2n 2	17s40	0n21	21s41
F 2	7 31	6 55	3 18	0 42	0 28	19 28	1 8	11 53	1 5	20 51	0 41	9 30	2 2	17 40	0 21	21 41
S 3	7 8	10 43	4 11	0n 7	0 42	19 18	1 3	11 36	1 5	20 51	0 41	9 32	2 2	17 40	0 21	21 41
S 4	6 45	13 51	4 49	0 54	0 55	19 7	0 59	11 19	1 5	20 52	0 41	9 34	2 2	17 40	0 21	21 41
M 5	6 22	16 11	5 11	1 40	1 9	18 56	0 55	11 1	1 5	20 53	0 41	9 36	2 2	17 40	0 21	21 41
T 6	5 59	17 40	5 18	2 23	1 23	18 44	0 51	10 44	1 5	20 54	0 41	9 38	2 2	17 40	0 21	21 41
W 7	5 36	18 17	5 10	3 3	1 37	18 32	0 47	10 27	1 5	20 55	0 42	9 40	2 3	17 40	0 21	21 41
T 8	5 12	18 3	4 48	3 41	1 51	18 19	0 43	10 9	1 4	20 56	0 42	9 42	2 3	17 40	0 21	21 41
F 9	4 49	17 2	4 14	4 15	2 5	18 6	0 39	9 51	1 4	20 56	0 42	9 43	2 3	17 39	0 21	21 41
S 10	4 25	15 16	3 29	4 46	2 18	17 53	0 35	9 34	1 4	20 57	0 42	9 45	2 3	17 39	0 21	21 41
S 11	4 2	12 53	2 35	5 13	2 30	17 38	0 31	9 16	1 4	20 58	0 42	9 47	2 3	17 39	0 21	21 41
M12	3 38	9 56	1 35	5 36	2 42	17 24	0 27	8 58	1 4	20 58	0 42	9 49	2 3	17 39	0 21	21 41
T 13	3 15	6 34	0 30	5 55	2 53	17 8	0 23	8 40	1 4	20 59	0 42	9 51	2 3	17 39	0 21	21 41
W14	2 51	2 54	0n37	6 9	3 3	16 53	0 19	8 22	1 4	20 59	0 42	9 52	2 3	17 38	0 21	21 41
T 15	2 28	0s55	1 42	6 19	3 12	16 37	0 15	8 4	1 4	21 0	0 42	9 54	2 3	17 38	0 21	21 41
F 16	2 4	4 45	2 44	6 24	3 19	16 20	0 11	7 46	1 3	21 0	0 42	9 56	2 3	17 38	0 21	21 41
S 17	1 40	8 27	3 39	6 25	3 25	16 3	0 7	7 27	1 3	21 0	0 42	9 58	2 3	17 38	0 21	21 41
S 18	1 16	11 48	4 25	6 21	3 29	15 45	0 4	7 9	1 3	21 1	0 42	9 59	2 3	17 37	0 21	21 41
M19	0 53	14 39	4 57	6 12	3 32	15 27	0s 0	6 51	1 3	21 1	0 41	10 1	2 3	17 37	0 21	21 41
T 20	0 29	16 47	5 15	6 0	3 33	15 9	0 4	6 32	1 3	21 1	0 41	10 3	2 3	17 37	0 21	21 41
W21	0 5	18 3	5 15	5 43	3 31	14 50	0 7	6 14	1 3	21 2	0 41	10 4	2 3	17 36	0 21	21 41
T 22	0n18	18 16	4 58	5 23	3 28	14 30	0 11	5 55	1 2	21 2	0 41	10 6	2 3	17 36	0 21	21 41
F 23	0 42	17 22	4 22	4 59	3 23	14 11	0 14	5 36	1 2	21 2	0 41	10 7	2 3	17 36	0 21	21 41
S 24	1 6	15 21	3 30	4 32	3 17	13 50	0 18	5 18	1 2	21 2	0 41	10 9	2 3	17 35	0 21	21 41
S 25	1 29	12 19	2 23	4 4	3 8	13 30	0 21	4 59	1 2	21 2	0 41	10 10	2 3	17 35	0 21	21 41
M26	1 53	8 28	1 6	3 33	2 58	13 9	0 25	4 40	1 2	21 2	0 41	10 12	2 3	17 34	0 21	21 41
T 27	2 17	4 5	0s16	3 2	2 47	12 48	0 28	4 22	1 1	21 2	0 41	10 13	2 3	17 34	0 21	21 41
W28	2 40	0n32	1 36	2 30	2 34	12 26	0 31	4 3	1 1	21 2	0 41	10 15	2 3	17 34	0 21	21 41
T 29	3 4	5 3	2 48	1 58	2 21	12 4	0 34	3 44	1 1	21 2	0 41	10 16	2 2	17 33	0 21	21 40
F 30	3 27	9 11	3 48	1 27	2 6	11 42	0 38	3 25	1 1	21 2	0 41	10 18	2 2	17 33	0 21	21 40
S 31	3n50	12n42	4s34	0n57	1n51	11s19	0s41	3s 6	1s 0	21n 1	0n41	10n19	2n 2	17s32	0n21	21s40

Julian Day Number = 2443933.5, Delta T = 49.75 sec
 Ecliptic obliquity = 23°26'23", Nutation = - 0°00'03", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°26'57", Lahiri = 23°33'58"

ASTRODIENST EPHEMERIS for the year 1979

geocentric

APRIL 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 35 2	10°40'26	1°11' 2	27°R31	3°11'25	25°11'17	29°54	8°R19	20°R28	20°R29	18°R 3	17°R17	16°11'28	18°11'57	7°R34	S 1
M 2	12 38 59	11°39'40	14° 3	26°11'59	4°37	26° 4	29° 5	8°11'16	20°11'26	20°11'28	18°11'2	17°11'14	16°12'24	19° 4	7°37	M 2
T 3	12 42 55	12°38'51	26°41	26°33	5°48	26°51	29° 6	8°12	20°24	20°28	18° 0	17°12	16°21	19°10	7°41	T 3
W 4	12 46 52	13°38'00	9°58 1	26°13	7° 0	27°37	29° 8	8° 9	20°22	20°28	17°58	17°D10	16°18	19°17	7°44	W 4
T 5	12 50 49	14°37'06	21° 5	25°57	8°12	28°24	29°10	8° 5	20°20	20°27	17°57	17°11	16°15	19°24	7°48	T 5
F 6	12 54 45	15°36'11	2°11'59	25°48	9°23	29°11	29°12	8° 2	20°19	20°27	17°55	17°12	16°12	19°30	7°51	F 6
S 7	12 58 42	16°35'13	14°48	25°D44	10°35	29°58	29°14	7°59	20°17	20°26	17°53	17°13	16° 8	19°37	7°55	S 7
S 8	13 2 38	17°34'12	26°37	25°45	11°47	0°11'44	29°16	7°55	20°15	20°26	17°51	17°15	16° 5	19°44	7°59	S 8
M 9	13 6 35	18°33'10	8°11'29	25°52	12°59	1°31	29°19	7°52	20°13	20°25	17°50	17°16	16° 2	19°50	8° 2	M 9
T 10	13 10 31	19°32'05	20°30	26° 4	14°11	2°18	29°22	7°49	20°11	20°25	17°48	17°R17	15°59	19°57	8° 6	T 10
W11	13 14 28	20°30'58	2°11'41	26°21	15°23	3° 4	29°25	7°47	20° 9	20°24	17°46	17°16	15°56	20° 4	8°10	W11
T 12	13 18 24	21°29'49	15° 5	26°43	16°35	3°51	29°28	7°44	20° 7	20°23	17°45	17°13	15°53	20°10	8°13	T 12
F 13	13 22 21	22°28'38	27°44	27° 9	17°47	4°38	29°31	7°41	20° 4	20°23	17°43	17° 8	15°49	20°17	8°17	F 13
S 14	13 26 17	23°27'25	10°11'37	27°40	18°59	5°24	29°34	7°38	20° 2	20°22	17°41	17° 3	15°46	20°24	8°21	S 14
S 15	13 30 14	24°26'10	23°44	28°15	20°11	6°11	29°38	7°36	20° 0	20°21	17°40	16°57	15°43	20°30	8°24	S 15
M16	13 34 11	25°24'54	7°11' 5	28°53	21°23	6°57	29°42	7°33	19°58	20°21	17°38	16°50	15°40	20°37	8°28	M16
T 17	13 38 7	26°23'35	20°39	29°36	22°35	7°43	29°46	7°31	19°56	20°20	17°36	16°45	15°37	20°44	8°32	T 17
W18	13 42 4	27°22'15	4°11'23	0°11'22	23°47	8°30	29°50	7°29	19°53	20°19	17°35	16°41	15°34	20°50	8°36	W18
T 19	13 46 0	28°20'54	18°17	1°12	24°59	9°16	29°54	7°27	19°51	20°18	17°33	16°39	15°30	20°57	8°40	T 19
F 20	13 49 57	29°19'30	2°11'20	2° 4	26°11	10° 2	29°58	7°25	19°49	20°18	17°31	16°D39	15°27	21° 4	8°43	F 20
S 21	13 53 53	0°18'05	16°30	3° 0	27°23	10°49	0°11'3	7°23	19°47	20°17	17°30	16°39	15°24	21°10	8°47	S 21
S 22	13 57 50	1°16'38	0°11'47	3°59	28°36	11°35	0° 8	7°21	19°44	20°16	17°28	16°41	15°21	21°17	8°51	S 22
M23	14 1 46	2°15'10	15° 8	5° 1	29°48	12°21	0°13	7°19	19°42	20°15	17°27	16°R41	15°18	21°24	8°55	M23
T 24	14 5 43	3°13'40	29°30	6° 5	1°11'0	13° 7	0°18	7°17	19°39	20°14	17°25	16°41	15°14	21°30	8°59	T 24
W25	14 9 40	4°12'08	13°11'48	7°12	2°12	13°53	0°23	7°16	19°37	20°13	17°23	16°38	15°11	21°37	9° 2	W25
T 26	14 13 36	5°10'35	27°59	8°22	3°25	14°40	0°28	7°14	19°35	20°12	17°22	16°33	15° 8	21°44	9° 6	T 26
F 27	14 17 33	6° 9'00	11°11'56	9°34	4°37	15°26	0°34	7°13	19°32	20°11	17°20	16°26	15° 5	21°50	9°10	F 27
S 28	14 21 29	7° 7'22	25°37	10°48	5°49	16°12	0°40	7°12	19°30	20°10	17°19	16°18	15° 2	21°57	9°14	S 28
S 29	14 25 26	8° 5'44	8°11'58	12° 5	7° 2	16°58	0°46	7°10	19°27	20° 9	17°17	16° 9	14°59	22° 4	9°18	S 29
M30	14 29 22	9° 4'03	21°11'58	13°11'24	8°11'14	17°11'43	0°11'52	7°11' 9	19°11'25	20°11' 8	17°11'15	16°11' 1	14°11'55	22°11'10	9°11'21	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	4n14	15n26	5s 2	0n28	1n35	10s56	0s44	2s48	1s 0	21n 1	0n41	10n20	2n 2	17s32	0n21	21s40	1n26
M 2	4 37	17 17	5 14	0 1	1 19	10 33	0 47	2 29	1 0	21 1	0 41	10 22	2 2	17 31	0 21	21 40	1 26
T 3	5 0	18 13	5 11	0s24	1 3	10 9	0 49	2 10	0 59	21 1	0 41	10 23	2 2	17 31	0 21	21 40	1 26
W 4	5 23	18 16	4 52	0 47	0 47	9 45	0 52	1 51	0 59	21 0	0 41	10 24	2 2	17 30	0 21	21 40	1 26
T 5	5 46	17 29	4 22	1 7	0 32	9 21	0 55	1 32	0 59	21 0	0 41	10 25	2 2	17 30	0 21	21 40	1 26
F 6	6 9	15 55	3 40	1 25	0 16	8 56	0 58	1 13	0 59	20 59	0 41	10 27	2 2	17 29	0 21	21 40	1 26
S 7	6 31	13 42	2 49	1 41	0 1	8 32	1 0	0 54	0 58	20 59	0 41	10 28	2 2	17 29	0 21	21 40	1 26
S 8	6 54	10 54	1 51	1 53	0s13	8 7	1 3	0 35	0 58	20 58	0 41	10 29	2 2	17 28	0 21	21 40	1 26
M 9	7 16	7 39	0 48	2 3	0 27	7 41	1 5	0 17	0 58	20 58	0 41	10 30	2 2	17 28	0 21	21 40	1 26
T 10	7 39	4 2	0n18	2 11	0 41	7 16	1 7	0n 2	0 57	20 57	0 41	10 31	2 2	17 27	0 21	21 40	1 26
W11	8 1	0 12	1 23	2 16	0 53	6 50	1 10	0 21	0 57	20 57	0 41	10 32	2 2	17 27	0 21	21 40	1 26
T 12	8 23	3s42	2 26	2 19	1 6	6 24	1 12	0 40	0 57	20 56	0 41	10 33	2 1	17 26	0 21	21 40	1 26
F 13	8 45	7 30	3 23	2 19	1 17	5 58	1 14	0 59	0 56	20 55	0 41	10 34	2 1	17 26	0 21	21 39	1 26
S 14	9 7	11 2	4 10	2 17	1 28	5 32	1 16	1 17	0 56	20 54	0 41	10 35	2 1	17 25	0 21	21 39	1 26
S 15	9 28	14 6	4 46	2 12	1 38	5 5	1 18	1 36	0 56	20 54	0 41	10 36	2 1	17 24	0 21	21 39	1 26
M16	9 50	16 28	5 6	2 5	1 48	4 39	1 20	1 55	0 55	20 53	0 41	10 36	2 1	17 24	0 21	21 39	1 26
T 17	10 11	17 58	5 10	1 57	1 57	4 12	1 22	2 13	0 55	20 52	0 41	10 37	2 1	17 23	0 21	21 39	1 26
W18	10 32	18 26	4 56	1 46	2 5	3 45	1 24	2 32	0 54	20 51	0 41	10 38	2 1	17 23	0 21	21 39	1 26
T 19	10 53	17 49	4 25	1 33	2 12	3 18	1 25	2 51	0 54	20 50	0 41	10 39	2 1	17 22	0 21	21 39	1 26
F 20	11 14	16 7	3 37	1 18	2 19	2 51	1 27	3 9	0 54	20 49	0 41	10 39	2 1	17 21	0 21	21 39	1 26
S 21	11 35	13 24	2 36	1 2	2 25	2 24	1 29	3 28	0 53	20 48	0 41	10 40	2 1	17 21	0 21	21 39	1 26
S 22	11 55	9 52	1 25	0 43	2 31	1 56	1 30	3 46	0 53	20 47	0 41	10 41	2 0	17 20	0 21	21 39	1 27
M23	12 15	5 44	0 8	0 23	2 36	1 29	1 31	4 5	0 53	20 46	0 41	10 41	2 0	17 20	0 21	21 39	1 27
T 24	12 35	1 15	1s 9	0 2	2 40	1 1	1 33	4 23	0 52	20 45	0 41	10 42	2 0	17 19	0 21	21 38	1 27
W25	12 55	3n17	2 21	0n21	2 43	0 33	1 34	4 41	0 52	20 44	0 41	10 42	2 0	17 18	0 21	21 38	1 27
T 26	13 15	7 35	3 24	0 46	2 46	0 6	1 35	4 59	0 51	20 43	0 41	10 43	2 0	17 18	0 21	21 38	1 27
F 27	13 34	11 24	4 14	1 12	2 49	0n22	1 36	5 18	0 51	20 41	0 41	10 43	2 0	17 17	0 21	21 38	1 27
S 28	13 53	14 31	4 47	1 40	2 51	0 50	1 37	5 36	0 50	20 40	0 41	10 43	2 0	17 16	0 21	21 38	1 27
S 29	14 12	16 47	5 4	2 9	2 52	1 17	1 38	5 54	0 50	20 39	0 41	10 44	2 0	17 16	0 21	21 38	1 27
M30	14n31	18n 7	5s 5	2n39	2s52	1n45	1s39	6n12	0s50	20n38	0n41	10n44	1n59	17s15	0n21	21s38	1n27

Julian Day Number = 2443964.5, Delta T = 49.83 sec

Ecliptic obliquity = 23°26'23, Nutation = - 0°00'05, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°27'01, Lahiri = 23°34'02

ASTRODIENST EPHEMERIS for the year 1979

geocentric

MAY 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 33 19	10♌ 2'20	4♌36	14♌45	9♌26	18♌29	0♌58	7°R 8	19°R22	20°R 6	17°R14	15°R54	14♌52	22♌17	9♌25	T 1
W 2	14 37 15	11° 0'35	16°57	16° 8	10°39	19°15	1° 4	7♌ 8	19♌20	20♌ 5	17♌12	15♌49	14°49	22°24	9°29	W 2
T 3	14 41 12	11°58'48	29° 2	17°34	11°51	20° 1	1°11	7° 7	19°17	20° 4	17°11	15°46	14°46	22°30	9°33	T 3
F 4	14 45 9	12°56'59	10♌57	19° 1	13° 4	20°47	1°17	7° 6	19°15	20° 3	17° 9	15°D45	14°43	22°37	9°37	F 4
S 5	14 49 5	13°55'08	22°46	20°30	14°16	21°32	1°24	7° 6	19°12	20° 2	17° 8	15°45	14°40	22°43	9°41	S 5
S 6	14 53 2	14°53'15	4♌36	22° 2	15°28	22°18	1°31	7° 5	19°10	20° 1	17° 7	15°46	14°36	22°50	9°44	S 6
M 7	14 56 58	15°51'20	16°30	23°35	16°41	23° 4	1°38	7° 5	19° 7	19°59	17° 5	15°R46	14°33	22°57	9°48	M 7
T 8	15 0 55	16°49'24	28°35	25°10	17°53	23°49	1°45	7° 5	19° 5	19°58	17° 4	15°45	14°30	23° 3	9°52	T 8
W 9	15 4 51	17°47'25	10♌54	26°48	19° 6	24°35	1°52	7° 5	19° 2	19°57	17° 2	15°42	14°27	23°10	9°56	W 9
T 10	15 8 48	18°45'25	23°30	28°27	20°18	25°20	2° 0	7°D 5	19° 0	19°55	17° 1	15°37	14°24	23°17	10° 0	T 10
F 11	15 12 44	19°43'23	6♌25	0♌ 8	21°31	26° 5	2° 7	7° 5	18°57	19°54	17° 0	15°29	14°20	23°23	10° 3	F 11
S 12	15 16 41	20°41'19	19°39	1°52	22°43	26°51	2°15	7° 5	18°55	19°53	16°58	15°20	14°17	23°30	10° 7	S 12
S 13	15 20 38	21°39'14	3♌11	3°37	23°56	27°36	2°23	7° 5	18°52	19°51	16°57	15° 9	14°14	23°37	10°11	S 13
M14	15 24 34	22°37'07	16°57	5°24	25° 8	28°21	2°31	7° 6	18°50	19°50	16°56	14°58	14°11	23°43	10°15	M14
T 15	15 28 31	23°34'59	0♌55	7°13	26°21	29° 7	2°39	7° 6	18°47	19°49	16°54	14°49	14° 8	23°50	10°19	T 15
W16	15 32 27	24°32'50	15° 1	9° 4	27°33	29°52	2°47	7° 7	18°45	19°47	16°53	14°42	14° 5	23°57	10°22	W16
T 17	15 36 24	25°30'39	29°10	10°58	28°46	0♌37	2°55	7° 7	18°42	19°46	16°52	14°37	14° 1	24° 3	10°26	T 17
F 18	15 40 20	26°28'28	13♌19	12°53	29°59	1°22	3° 4	7° 8	18°40	19°44	16°51	14°34	13°58	24°10	10°30	F 18
S 19	15 44 17	27°26'15	27°28	14°50	1♌11	2° 7	3°12	7° 9	18°37	19°43	16°49	14°D34	13°55	24°17	10°34	S 19
S 20	15 48 13	28°24'01	11♌34	16°49	2°24	2°52	3°21	7°10	18°35	19°41	16°48	14°R34	13°52	24°23	10°37	S 20
M21	15 52 10	29°21'45	25°37	18°49	3°36	3°37	3°29	7°11	18°32	19°40	16°47	14°34	13°49	24°30	10°41	M21
T 22	15 56 7	0♌19'29	9♌36	20°52	4°49	4°22	3°38	7°13	18°30	19°38	16°46	14°32	13°46	24°37	10°45	T 22
W23	16 0 3	1°17'12	23°29	22°56	6° 2	5° 6	3°47	7°14	18°27	19°37	16°45	14°27	13°42	24°43	10°48	W23
T 24	16 4 0	2°14'54	7♌14	25° 2	7°14	5°51	3°56	7°15	18°25	19°35	16°44	14°20	13°39	24°50	10°52	T 24
F 25	16 7 56	3°12'34	20°49	27°10	8°27	6°36	4° 6	7°17	18°22	19°34	16°43	14°10	13°36	24°57	10°56	F 25
S 26	16 11 53	4°10'14	4♌10	29°18	9°40	7°21	4°15	7°19	18°20	19°32	16°42	13°58	13°33	25° 3	10°59	S 26
S 27	16 15 49	5° 7'52	17°16	1♌28	10°53	8° 5	4°24	7°20	18°18	19°31	16°41	13°45	13°30	25°10	11° 3	S 27
M28	16 19 46	6° 5'29	0♌ 5	3°39	12° 5	8°50	4°34	7°22	18°15	19°29	16°40	13°33	13°26	25°17	11° 6	M28
T 29	16 23 42	7° 3'05	12°37	5°50	13°18	9°34	4°43	7°24	18°13	19°28	16°39	13°23	13°23	25°23	11°10	T 29
W30	16 27 39	8° 0'39	24°53	8° 2	14°31	10°19	4°53	7°26	18°11	19°26	16°38	13°14	13°20	25°30	11°13	W30
T 31	16 31 36	8♌58'12	6♌57	10♌14	15♌44	11♌ 3	5♌ 3	7♌28	18♌ 8	19♌24	16♌37	13♌ 8	13♌17	25♌36	11♌17	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	14n50	18n31	4s51	3n10	2s52	2n13	1s39	6n29	0s49	20n36	0n40	10n44	1n59	17s14	0n21	21s38
W 2	15 8	18 1	4 23	3 43	2 51	2 41	1 40	6 47	0 49	20 35	0 40	10 44	1 59	17 14	0 21	21 38
T 3	15 26	16 42	3 44	4 16	2 50	3 8	1 41	7 5	0 48	20 33	0 40	10 44	1 59	17 13	0 21	21 37
F 4	15 44	14 40	2 56	4 51	2 49	3 36	1 41	7 23	0 48	20 32	0 40	10 45	1 59	17 12	0 21	21 37
S 5	16 1	12 2	2 0	5 27	2 46	4 4	1 42	7 40	0 47	20 30	0 40	10 45	1 59	17 12	0 21	21 37
S 6	16 18	8 54	1 0	6 3	2 43	4 31	1 42	7 58	0 47	20 29	0 40	10 45	1 59	17 11	0 21	21 37
M 7	16 35	5 23	0n 4	6 41	2 40	4 59	1 42	8 15	0 46	20 27	0 40	10 45	1 58	17 10	0 21	21 37
T 8	16 52	1 36	1 8	7 19	2 36	5 26	1 42	8 32	0 46	20 26	0 40	10 45	1 58	17 10	0 21	21 37
W 9	17 8	2s19	2 10	7 59	2 31	5 54	1 42	8 49	0 45	20 24	0 40	10 45	1 58	17 9	0 21	21 37
T 10	17 24	6 13	3 7	8 39	2 26	6 21	1 42	9 6	0 45	20 22	0 40	10 44	1 58	17 8	0 21	21 37
F 11	17 40	9 56	3 56	9 19	2 21	6 48	1 42	9 23	0 44	20 20	0 40	10 44	1 58	17 8	0 21	21 37
S 12	17 55	13 15	4 33	10 1	2 15	7 15	1 42	9 40	0 44	20 19	0 40	10 44	1 58	17 7	0 21	21 36
S 13	18 11	15 57	4 56	10 43	2 8	7 42	1 42	9 57	0 43	20 17	0 40	10 44	1 58	17 6	0 21	21 36
M14	18 26	17 47	5 3	11 25	2 1	8 9	1 42	10 14	0 43	20 15	0 40	10 43	1 57	17 6	0 21	21 36
T 15	18 40	18 35	4 51	12 8	1 54	8 35	1 41	10 30	0 42	20 13	0 40	10 43	1 57	17 5	0 21	21 36
W16	18 54	18 15	4 22	12 51	1 46	9 2	1 41	10 46	0 42	20 11	0 40	10 43	1 57	17 4	0 21	21 36
T 17	19 8	16 48	3 37	13 34	1 37	9 28	1 41	11 3	0 41	20 9	0 40	10 42	1 57	17 3	0 21	21 36
F 18	19 22	14 18	2 38	14 18	1 28	9 54	1 40	11 19	0 40	20 8	0 40	10 42	1 57	17 3	0 21	21 36
S 19	19 35	10 57	1 30	15 1	1 19	10 20	1 39	11 35	0 40	20 6	0 40	10 41	1 57	17 2	0 21	21 36
S 20	19 48	6 59	0 16	15 45	1 10	10 46	1 39	11 51	0 39	20 3	0 40	10 41	1 57	17 1	0 21	21 35
M21	20 1	2 38	0s58	16 28	1 0	11 11	1 38	12 7	0 39	20 1	0 40	10 40	1 56	17 1	0 21	21 35
T 22	20 13	1n50	2 9	17 10	0 50	11 36	1 37	12 22	0 38	19 59	0 40	10 40	1 56	17 0	0 21	21 35
W23	20 25	6 10	3 11	17 52	0 40	12 1	1 36	12 38	0 38	19 57	0 40	10 39	1 56	16 59	0 21	21 35
T 24	20 37	10 8	4 1	18 33	0 29	12 26	1 35	12 53	0 37	19 55	0 40	10 38	1 56	16 59	0 21	21 35
F 25	20 48	13 30	4 37	19 13	0 19	12 50	1 34	13 9	0 37	19 53	0 40	10 38	1 56	16 58	0 21	21 35
S 26	20 59	16 7	4 57	19 52	0 8	13 14	1 33	13 24	0 36	19 51	0 40	10 37	1 56	16 58	0 21	21 35
S 27	21 9	17 51	5 0	20 30	0n 3	13 38	1 32	13 39	0 35	19 48	0 40	10 36	1 56	16 57	0 20	21 35
M28	21 19	18 38	4 49	21 6	0 13	14 1	1 31	13 54	0 35	19 46	0 40	10 35	1 55	16 56	0 20	21 34
T 29	21 29	18 28	4 23	21 40	0 24	14 25	1 29	14 8	0 34	19 44	0 40	10 35	1 55	16 56	0 20	21 34
W30	21 39	17 27	3 46	22 12	0 34	14 47	1 28	14 23	0 34	19 41	0 40	10 34	1 55	16 55	0 20	21 34
T 31	21n48	15n39	2s59	22n42	0n44	15n10	1s27	14n37	0s33	19n39	0n40	10n33	1n55	16s54	0n20	21s34

Julian Day Number = 2443994.5, Delta T = 49.91 sec
 Ecliptic obliquity = 23°26'22", Nutation = - 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°27'06", Lahiri = 23°34'06"

ASTRODIENST EPHEMERIS for the year 1979

geocentric

JUNE 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 35 32	9II55'44	18J50	12II26	16R56	11R47	5J13	7II31	18°R 6	19°R23	16°R36	13°R 5	13II14	25J43	11R20	F 1
S 2	16 39 29	10°53'14	0II39	14°38	18° 9	12°32	5°23	7°33	18II 4	19R21	16R36	13II 4	13°11	25°50	11°24	S 2
S 3	16 43 25	11°50'43	12°28	16°49	19°22	13°16	5°33	7°35	18° 2	19°20	16°35	13° 4	13° 7	25°56	11°27	S 3
M 4	16 47 22	12°48'11	24°23	18°59	20°35	14° 0	5°43	7°38	17°59	19°18	16°34	13° 4	13° 4	26° 3	11°31	M 4
T 5	16 51 18	13°45'38	6R29	21° 7	21°48	14°44	5°53	7°41	17°57	19°16	16°33	13° 2	13° 1	26°10	11°34	T 5
W 6	16 55 15	14°43'03	18°51	23°15	23° 0	15°28	6° 4	7°43	17°55	19°15	16°33	12°59	12°58	26°16	11°37	W 6
T 7	16 59 11	15°40'27	1II34	25°21	24°13	16°12	6°14	7°46	17°53	19°13	16°32	12°54	12°55	26°23	11°41	T 7
F 8	17 3 8	16°37'50	14°40	27°25	25°26	16°56	6°25	7°49	17°51	19°12	16°31	12°45	12°51	26°30	11°44	F 8
S 9	17 7 5	17°35'13	28° 9	29°27	26°39	17°40	6°35	7°52	17°49	19°10	16°31	12°35	12°48	26°36	11°47	S 9
S 10	17 11 1	18°32'34	12R 1	1R27	27°52	18°24	6°46	7°55	17°47	19° 8	16°30	12°24	12°45	26°43	11°51	S 10
M 11	17 14 58	19°29'55	26°11	3°25	29° 5	19° 7	6°57	7°58	17°45	19° 7	16°30	12°12	12°42	26°50	11°54	M 11
T 12	17 18 54	20°27'14	10R35	5°21	0II18	19°51	7° 7	8° 2	17°43	19° 5	16°29	12° 2	12°39	26°56	11°57	T 12
W 13	17 22 51	21°24'34	25° 6	7°15	1°30	20°35	7°18	8° 5	17°41	19° 3	16°29	11°54	12°36	27° 3	12° 0	W 13
T 14	17 26 47	22°21'52	9R37	9° 6	2°43	21°18	7°29	8° 8	17°39	19° 2	16°28	11°48	12°32	27°10	12° 3	T 14
F 15	17 30 44	23°19'10	24° 4	10°55	3°56	22° 2	7°40	8°12	17°37	19° 0	16°28	11°45	12°29	27°16	12° 6	F 15
S 16	17 34 40	24°16'28	8R22	12°41	5° 9	22°45	7°52	8°16	17°35	18°59	16°27	11°D45	12°26	27°23	12°10	S 16
S 17	17 38 37	25°13'46	22°30	14°25	6°22	23°29	8° 3	8°19	17°33	18°57	16°27	11°R45	12°23	27°30	12°13	S 17
M 18	17 42 34	26°11'03	6R27	16° 7	7°35	24°12	8°14	8°23	17°31	18°55	16°27	11°44	12°20	27°36	12°16	M 18
T 19	17 46 30	27° 8'20	20°12	17°46	8°48	24°55	8°25	8°27	17°29	18°54	16°26	11°43	12°17	27°43	12°19	T 19
W 20	17 50 27	28° 5'36	3R46	19°23	10° 1	25°39	8°37	8°31	17°28	18°52	16°26	11°38	12°13	27°50	12°22	W 20
T 21	17 54 23	29° 2'53	17° 9	20°57	11°14	26°22	8°48	8°35	17°26	18°51	16°26	11°32	12°10	27°56	12°24	T 21
F 22	17 58 20	0R 0'09	0II20	22°28	12°28	27° 5	9° 0	8°39	17°24	18°49	16°26	11°22	12° 7	28° 3	12°27	F 22
S 23	18 2 16	0°57'25	13°20	23°58	13°41	27°48	9°11	8°43	17°23	18°47	16°26	11°11	12° 4	28° 9	12°30	S 23
S 24	18 6 13	1°54'41	26° 6	25°24	14°54	28°31	9°23	8°48	17°21	18°46	16°25	10°59	12° 1	28°16	12°33	S 24
M 25	18 10 9	2°51'56	8R39	26°48	16° 7	29°14	9°35	8°52	17°20	18°44	16°25	10°48	11°57	28°23	12°36	M 25
T 26	18 14 6	3°49'11	20°59	28°10	17°20	29°57	9°47	8°57	17°18	18°43	16°25	10°38	11°54	28°29	12°38	T 26
W 27	18 18 3	4°46'26	3J 8	29°28	18°33	0II39	9°59	9° 1	17°17	18°41	16°D25	10°30	11°51	28°36	12°41	W 27
T 28	18 21 59	5°43'40	15° 6	0J45	19°46	1°22	10°10	9° 6	17°15	18°40	16°25	10°24	11°48	28°43	12°44	T 28
F 29	18 25 56	6°40'54	26°56	1°58	21° 0	2° 5	10°22	9°10	17°14	18°38	16°25	10°21	11°45	28°49	12°46	F 29
S 30	18 29 52	7R38'07	8II43	3J 8	22II13	2II47	10J34	9II15	17II13	18R37	16R25	10°D20	11II42	28J56	12R49	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
F 1	21n56	13n12	2s 5	23n10	0n53	15n32	1s25	14n51	0s32	19n37	0n40	10n32	1n55	16s54	0n20	21s34
S 2	22 5	10 13	1 5	23 35	1 2	15 54	1 24	15 6	0 32	19 34	0 40	10 31	1 55	16 53	0 20	21 34
S 3	22 13	6 50	0 3	23 58	1 11	16 15	1 22	15 19	0 31	19 32	0 40	10 30	1 55	16 52	0 20	21 34
M 4	22 20	3 9	1n 0	24 18	1 19	16 36	1 21	15 33	0 31	19 29	0 40	10 29	1 54	16 52	0 20	21 34
T 5	22 27	0s44	2 1	24 35	1 26	16 57	1 19	15 47	0 30	19 27	0 40	10 27	1 54	16 51	0 20	21 33
W 6	22 34	4 39	2 57	24 49	1 33	17 17	1 17	16 0	0 29	19 24	0 40	10 26	1 54	16 51	0 20	21 33
T 7	22 40	8 28	3 47	25 1	1 39	17 37	1 15	16 14	0 29	19 22	0 40	10 25	1 54	16 50	0 20	21 33
F 8	22 46	12 0	4 26	25 10	1 45	17 56	1 14	16 27	0 28	19 19	0 40	10 24	1 54	16 50	0 20	21 33
S 9	22 52	15 0	4 52	25 16	1 49	18 15	1 12	16 40	0 27	19 16	0 40	10 23	1 54	16 49	0 20	21 33
S 10	22 57	17 16	5 1	25 19	1 53	18 33	1 10	16 52	0 27	19 14	0 40	10 21	1 54	16 48	0 20	21 33
M 11	23 1	18 31	4 52	25 20	1 57	18 51	1 8	17 5	0 26	19 11	0 40	10 20	1 53	16 48	0 20	21 33
T 12	23 6	18 37	4 25	25 19	1 59	19 8	1 6	17 18	0 25	19 8	0 40	10 19	1 53	16 47	0 20	21 33
W 13	23 10	17 30	3 46	25 15	2 1	19 25	1 4	17 30	0 25	19 5	0 40	10 17	1 53	16 47	0 20	21 32
T 14	23 13	15 15	2 41	25 9	2 2	19 42	1 2	17 42	0 24	19 3	0 40	10 16	1 53	16 46	0 20	21 32
F 15	23 16	12 3	1 32	25 1	2 2	19 58	1 0	17 54	0 23	19 0	0 40	10 14	1 53	16 46	0 20	21 32
S 16	23 19	8 9	0 18	24 51	2 1	20 13	0 58	18 6	0 23	18 57	0 40	10 13	1 53	16 45	0 20	21 32
S 17	23 21	3 51	0s57	24 39	2 0	20 28	0 55	18 17	0 22	18 54	0 40	10 11	1 53	16 45	0 20	21 32
M 18	23 23	0n37	2 7	24 25	1 58	20 42	0 53	18 28	0 21	18 51	0 40	10 10	1 53	16 44	0 20	21 32
T 19	23 24	4 58	3 9	24 10	1 55	20 56	0 51	18 40	0 21	18 48	0 40	10 8	1 52	16 44	0 20	21 32
W 20	23 26	9 1	3 59	23 53	1 52	21 9	0 49	18 51	0 20	18 45	0 40	10 7	1 52	16 43	0 20	21 32
T 21	23 26	12 33	4 36	23 35	1 48	21 22	0 46	19 1	0 19	18 42	0 40	10 5	1 52	16 43	0 20	21 31
F 22	23 26	15 23	4 57	23 16	1 43	21 34	0 44	19 12	0 19	18 39	0 40	10 3	1 52	16 42	0 20	21 31
S 23	23 26	17 24	5 2	22 55	1 38	21 45	0 42	19 23	0 18	18 36	0 40	10 2	1 52	16 42	0 20	21 31
S 24	23 26	18 31	4 52	22 34	1 32	21 56	0 39	19 33	0 17	18 33	0 40	10 0	1 52	16 42	0 20	21 31
M 25	23 24	18 42	4 28	22 12	1 25	22 6	0 37	19 43	0 17	18 30	0 40	9 58	1 52	16 41	0 20	21 31
T 26	23 23	17 59	3 51	21 48	1 18	22 16	0 35	19 53	0 16	18 27	0 40	9 56	1 52	16 41	0 20	21 31
W 27	23 21	16 28	3 5	21 24	1 10	22 25	0 32	20 2	0 15	18 23	0 40	9 55	1 51	16 40	0 20	21 31
T 28	23 19	14 14	2 11	21 0	1 2	22 33	0 30	20 12	0 15	18 20	0 40	9 53	1 51	16 40	0 20	21 31
F 29	23 16	11 25	1 11	20 35	0 53	22 41	0 27	20 21	0 14	18 17	0 40	9 51	1 51	16 40	0 20	21 31
S 30	23n13	8n10	0s 9	20n10	0n44	22n48	0s25	20n30	0s13	18n14	0n40	9n49	1n51	16s39	0n20	21s30

Julian Day Number = 2444025.5, Delta T = 50.00 sec
 Ecliptic obliquity = 23°26'22, Nutation = - 0°00'06, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°27'10, Lahiri = 23°34'10

ASTRODIENST EPHEMERIS for the year 1979

geocentric

JULY 1979

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 33 49	8°35'20	20°32	4°16	23°26	3°30	10°46	9°20	17°R11	18°R35	16°26	10°21	11°38	29°2	12°52	S 1
M 2	18 37 45	9°32'33	2°26	5°21	24°39	4°12	10°59	9°25	17°R10	18°R34	16°26	10°21	11°35	29°9	12°54	M 2
T 3	18 41 42	10°29'45	14°31	6°23	25°53	4°55	11°11	9°30	17°9	18°32	16°26	10°R22	11°32	29°16	12°56	T 3
W 4	18 45 38	11°26'57	26°53	7°21	27°6	5°37	11°23	9°35	17°8	18°31	16°26	10°20	11°29	29°23	12°59	W 4
T 5	18 49 35	12°24'08	9°36	8°17	28°19	6°19	11°35	9°40	17°7	18°29	16°26	10°17	11°26	29°29	13°1	T 5
F 6	18 53 32	13°21'20	22°44	9°9	29°32	7°2	11°48	9°45	17°6	18°28	16°27	10°12	11°23	29°36	13°4	F 6
S 7	18 57 28	14°18'31	6°19	9°57	0°46	7°44	12°0	9°51	17°5	18°26	16°27	10°5	11°19	29°43	13°6	S 7
S 8	19 1 25	15°15'42	20°21	10°42	1°59	8°26	12°12	9°56	17°4	18°25	16°27	9°56	11°16	29°49	13°8	S 8
M 9	19 5 21	16°12'53	4°46	11°24	3°12	9°8	12°25	10°1	17°3	18°24	16°28	9°48	11°13	29°56	13°10	M 9
T 10	19 9 18	17°10'04	19°29	12°1	4°26	9°50	12°37	10°7	17°2	18°22	16°28	9°40	11°10	0°2	13°12	T 10
W11	19 13 14	18°7'16	4°22	12°35	5°39	10°32	12°50	10°12	17°1	18°21	16°29	9°35	11°7	0°9	13°14	W11
T 12	19 17 11	19°4'27	19°16	13°4	6°53	11°14	13°2	10°18	17°1	18°19	16°29	9°31	11°3	0°16	13°16	T 12
F 13	19 21 8	20°1'39	4°4	13°29	8°6	11°55	13°15	10°23	17°0	18°18	16°30	9°D29	11°0	0°22	13°18	F 13
S 14	19 25 4	20°58'51	18°40	13°50	9°20	12°37	13°27	10°29	16°59	18°17	16°30	9°30	10°57	0°29	13°20	S 14
S 15	19 29 1	21°56'04	2°59	14°7	10°33	13°19	13°40	10°35	16°59	18°16	16°31	9°31	10°54	0°36	13°22	S 15
M16	19 32 57	22°53'18	17°1	14°18	11°47	14°0	13°53	10°41	16°58	18°14	16°31	9°R31	10°51	0°42	13°24	M16
T 17	19 36 54	23°50'32	0°44	14°25	13°0	14°42	14°5	10°47	16°57	18°13	16°32	9°31	10°48	0°49	13°26	T 17
W18	19 40 50	24°47'47	14°9	14°R27	14°14	15°23	14°18	10°53	16°57	18°12	16°33	9°30	10°44	0°56	13°28	W18
T 19	19 44 47	25°45'02	27°18	14°25	15°27	16°5	14°31	10°59	16°57	18°11	16°33	9°26	10°41	1°2	13°29	T 19
F 20	19 48 43	26°42'18	10°12	14°17	16°41	16°46	14°44	11°5	16°56	18°9	16°34	9°21	10°38	1°9	13°31	F 20
S 21	19 52 40	27°39'35	22°52	14°5	17°54	17°27	14°57	11°11	16°56	18°8	16°35	9°14	10°35	1°16	13°33	S 21
S 22	19 56 37	28°36'53	5°21	13°47	19°8	18°8	15°10	11°17	16°56	18°7	16°36	9°7	10°32	1°22	13°34	S 22
M23	20 0 33	29°34'11	17°38	13°26	20°22	18°49	15°22	11°23	16°56	18°6	16°37	9°0	10°29	1°29	13°36	M23
T 24	20 4 30	0°31'30	29°45	12°59	21°36	19°30	15°35	11°29	16°55	18°5	16°37	8°54	10°25	1°36	13°37	T 24
W25	20 8 26	1°28'50	11°44	12°29	22°49	20°11	15°48	11°36	16°55	18°4	16°38	8°49	10°22	1°42	13°39	W25
T 26	20 12 23	2°26'10	23°36	11°55	24°3	20°52	16°1	11°42	16°D55	18°3	16°39	8°46	10°19	1°49	13°40	T 26
F 27	20 16 19	3°23'30	5°23	11°18	25°17	21°33	16°14	11°49	16°55	18°2	16°40	8°D45	10°16	1°55	13°41	F 27
S 28	20 20 16	4°20'51	17°10	10°38	26°31	22°14	16°27	11°55	16°55	18°1	16°41	8°45	10°13	2°2	13°42	S 28
S 29	20 24 12	5°18'13	28°58	9°55	27°44	22°55	16°40	12°2	16°55	18°0	16°42	8°47	10°9	2°9	13°44	S 29
M30	20 28 9	6°15'35	10°52	9°12	28°58	23°35	16°53	12°8	16°56	17°59	16°43	8°48	10°6	2°15	13°45	M30
T 31	20 32 5	7°12'58	22°57	8°27	0°12	24°16	17°12	12°15	16°56	17°58	16°45	8°50	10°3	2°22	13°46	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23n10	4n35	0n54	19n44	0n34	22n54	0s23	20n39	0s12	18n11	0n40	9n47	1n51	16s39	0n20	21s30
M 2	23 6	0 48	1 56	19 18	0 23	23 0	0 20	20 48	0 12	18 7	0 40	9 45	1 51	16 39	0 20	21 30
T 3	23 1	3s 4	2 53	18 53	0 12	23 5	0 18	20 56	0 11	18 4	0 40	9 43	1 51	16 38	0 20	21 30
W 4	22 57	6 54	3 43	18 27	0 1	23 9	0 15	21 4	0 10	18 1	0 40	9 41	1 51	16 38	0 20	21 30
T 5	22 52	10 31	4 24	18 1	0s11	23 13	0 13	21 12	0 10	17 57	0 40	9 39	1 51	16 38	0 20	21 30
F 6	22 46	13 44	4 52	17 36	0 23	23 16	0 10	21 20	0 9	17 54	0 40	9 37	1 51	16 38	0 20	21 30
S 7	22 40	16 21	5 6	17 10	0 36	23 19	0 8	21 28	0 8	17 50	0 40	9 35	1 50	16 37	0 20	21 30
S 8	22 34	18 5	5 1	16 46	0 49	23 20	0 5	21 35	0 7	17 47	0 40	9 33	1 50	16 37	0 20	21 30
M 9	22 27	18 43	4 38	16 21	1 3	23 21	0 3	21 43	0 7	17 44	0 40	9 31	1 50	16 37	0 20	21 30
T 10	22 20	18 8	3 56	15 58	1 16	23 22	0 0	21 50	0 6	17 40	0 40	9 29	1 50	16 37	0 20	21 29
W11	22 13	16 18	2 58	15 35	1 30	23 21	0n 2	21 56	0 5	17 37	0 40	9 26	1 50	16 36	0 20	21 29
T 12	22 5	13 21	1 47	15 13	1 44	23 20	0 5	22 3	0 5	17 33	0 40	9 24	1 50	16 36	0 20	21 29
F 13	21 57	9 34	0 29	14 53	1 59	23 19	0 7	22 9	0 4	17 29	0 41	9 22	1 50	16 36	0 20	21 29
S 14	21 48	5 15	0s49	14 33	2 13	23 16	0 10	22 16	0 3	17 26	0 41	9 20	1 50	16 36	0 19	21 29
S 15	21 39	0 42	2 4	14 14	2 28	23 13	0 12	22 22	0 2	17 22	0 41	9 17	1 50	16 36	0 19	21 29
M16	21 30	3n47	3 9	13 57	2 42	23 9	0 14	22 27	0 2	17 19	0 41	9 15	1 50	16 36	0 19	21 29
T 17	21 20	7 57	4 2	13 41	2 56	23 5	0 17	22 33	0 1	17 15	0 41	9 13	1 50	16 35	0 19	21 29
W18	21 10	11 38	4 40	13 27	3 10	23 0	0 19	22 38	0 0	17 11	0 41	9 11	1 49	16 35	0 19	21 29
T 19	21 0	14 39	5 3	13 15	3 24	22 54	0 21	22 43	0n 1	17 8	0 41	9 8	1 49	16 35	0 19	21 29
F 20	20 49	16 52	5 9	13 4	3 37	22 47	0 24	22 48	0 2	17 4	0 41	9 6	1 49	16 35	0 19	21 29
S 21	20 38	18 14	5 1	12 56	3 50	22 40	0 26	22 53	0 2	17 0	0 41	9 3	1 49	16 35	0 19	21 29
S 22	20 26	18 42	4 38	12 49	4 2	22 32	0 28	22 58	0 3	16 56	0 41	9 1	1 49	16 35	0 19	21 29
M23	20 14	18 16	4 3	12 44	4 14	22 24	0 31	23 2	0 4	16 53	0 41	8 59	1 49	16 35	0 19	21 29
T 24	20 2	17 0	3 16	12 42	4 24	22 15	0 33	23 6	0 5	16 49	0 41	8 56	1 49	16 35	0 19	21 28
W25	19 50	15 0	2 22	12 41	4 33	22 5	0 35	23 10	0 5	16 45	0 41	8 54	1 49	16 35	0 19	21 28
T 26	19 37	12 22	1 22	12 43	4 41	21 55	0 37	23 14	0 6	16 41	0 41	8 51	1 49	16 35	0 19	21 28
F 27	19 24	9 15	0 18	12 47	4 47	21 43	0 39	23 17	0 7	16 37	0 41	8 49	1 49	16 35	0 19	21 28
S 28	19 10	5 47	0n46	12 53	4 52	21 32	0 41	23 20	0 8	16 34	0 41	8 46	1 49	16 35	0 19	21 28
S 29	18 57	2 4	1 49	13 0	4 56	21 19	0 43	23 23	0 8	16 30	0 41	8 44	1 49	16 35	0 19	21 28
M30	18 42	1s44	2 47	13 10	4 57	21 6	0 45	23 26	0 9	16 26	0 41	8 41	1 49	16 35	0 19	21 28
T 31	18n28	5s32	3n39	13n22	4s57	20n53	0n47	23n29	0n10	16n22	0n41	8n38	1n49	16s35	0n19	21s28

Julian Day Number = 2444055.5, Delta T = 50.07 sec
 Ecliptic obliquity = 23°26'22", Nutation = - 0°00'05", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°27'14", Lahiri = 23°34'14"

ASTRODIENST EPHEMERIS for the year 1979

geocentric

AUGUST 1979

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 36 2	8♏10'21	5♏18	7°R43	1♏26	24♏56	17♏19	12♏21	16♏56	17°R57	16♏46	8°R51	10♏0	2♏29	13♏47	W 1
T 2	20 39 59	9° 7'45	17°59	6♏59	2°40	25°37	17°33	12°28	16°56	17°56	16°47	8°50	9°57	2°35	13°48	T 2
F 3	20 43 55	10° 5'09	1♏3	6°17	3°54	26°17	17°46	12°35	16°57	17°55	16°48	8°49	9°54	2°42	13°49	F 3
S 4	20 47 52	11° 2'35	14°35	5°38	5° 7	26°57	17°59	12°42	16°57	17°54	16°49	8°46	9°50	2°49	13°50	S 4
S 5	20 51 48	12° 0'00	28°35	5° 2	6°21	27°37	18°12	12°48	16°58	17°54	16°50	8°43	9°47	2°55	13°50	S 5
M 6	20 55 45	12°57'27	13♏2	4°30	7°35	28°18	18°25	12°55	16°58	17°53	16°52	8°39	9°44	3° 2	13°51	M 6
T 7	20 59 41	13°54'54	27°50	4° 2	8°49	28°58	18°38	13° 2	16°59	17°52	16°53	8°36	9°41	3° 9	13°52	T 7
W 8	21 3 38	14°52'23	12♏54	3°40	10° 3	29°38	18°51	13° 9	16°59	17°51	16°54	8°33	9°38	3°15	13°52	W 8
T 9	21 7 34	15°49'52	28° 3	3°24	11°17	0♏17	19° 4	13°16	17° 0	17°51	16°56	8°32	9°35	3°22	13°53	T 9
F 10	21 11 31	16°47'23	13♏9	3°13	12°31	0°57	19°18	13°23	17° 1	17°50	16°57	8°D32	9°31	3°29	13°54	F 10
S 11	21 15 28	17°44'54	28° 3	3°D10	13°45	1°37	19°31	13°30	17° 1	17°49	16°59	8°33	9°28	3°35	13°54	S 11
S 12	21 19 24	18°42'27	12♏39	3°13	14°59	2°17	19°44	13°37	17° 2	17°49	17° 0	8°34	9°25	3°42	13°54	S 12
M13	21 23 21	19°40'01	26°53	3°22	16°14	2°56	19°57	13°44	17° 3	17°48	17° 1	8°35	9°22	3°48	13°55	M13
T 14	21 27 17	20°37'37	10♏42	3°40	17°28	3°36	20°10	13°51	17° 4	17°48	17° 3	8°36	9°19	3°55	13°55	T 14
W15	21 31 14	21°35'15	24° 8	4° 4	18°42	4°15	20°23	13°58	17° 5	17°47	17° 4	8°R36	9°15	4° 2	13°55	W15
T 16	21 35 10	22°32'54	7♏12	4°35	19°56	4°55	20°37	14° 6	17° 6	17°47	17° 6	8°36	9°12	4° 8	13°55	T 16
F 17	21 39 7	23°30'34	19°57	5°14	21°10	5°34	20°50	14°13	17° 7	17°46	17° 8	8°34	9° 9	4°15	13°56	F 17
S 18	21 43 3	24°28'16	2♏26	5°59	22°24	6°13	21° 3	14°20	17° 8	17°46	17° 9	8°33	9° 6	4°22	13°56	S 18
S 19	21 47 0	25°26'00	14°41	6°52	23°39	6°53	21°16	14°27	17°10	17°46	17°11	8°31	9° 3	4°28	13°R56	S 19
M20	21 50 57	26°23'45	26°46	7°51	24°53	7°32	21°29	14°35	17°11	17°45	17°13	8°29	9° 0	4°35	13°56	M20
T 21	21 54 53	27°21'32	8♏43	8°56	26° 7	8°11	21°42	14°42	17°12	17°45	17°14	8°27	8°56	4°42	13°56	T 21
W22	21 58 50	28°19'20	20°34	10° 8	27°21	8°50	21°55	14°49	17°13	17°45	17°16	8°26	8°53	4°48	13°55	W22
T 23	22 2 46	29°17'09	2♏22	11°26	28°36	9°29	22° 8	14°56	17°15	17°44	17°18	8°26	8°50	4°55	13°55	T 23
F 24	22 6 43	0♏15'00	14° 9	12°49	29°50	10° 7	22°22	15° 4	17°16	17°44	17°19	8°D26	8°47	5° 2	13°55	F 24
S 25	22 10 39	1°12'52	25°57	14°17	1♏4	10°46	22°35	15°11	17°18	17°44	17°21	8°26	8°44	5° 8	13°55	S 25
S 26	22 14 36	2°10'46	7♏49	15°50	2°19	11°25	22°48	15°19	17°19	17°44	17°23	8°27	8°40	5°15	13°54	S 26
M27	22 18 32	3° 8'40	19°47	17°27	3°33	12° 3	23° 1	15°26	17°21	17°44	17°25	8°27	8°37	5°21	13°54	M27
T 28	22 22 29	4° 6'37	1♏56	19° 9	4°47	12°42	23°14	15°33	17°23	17°43	17°27	8°28	8°34	5°28	13°53	T 28
W29	22 26 26	5° 4'34	14°18	20°53	6° 2	13°20	23°27	15°41	17°24	17°43	17°29	8°28	8°31	5°35	13°53	W29
T 30	22 30 22	6° 2'33	26°58	22°41	7°16	13°58	23°40	15°48	17°26	17°D43	17°30	8°28	8°28	5°41	13°52	T 30
F 31	22 34 19	7♏0'34	9♏59	24♏31	8♏30	14♏37	23♏53	15♏56	17♏28	17°543	17°532	8°R28	8♏25	5♏48	13♏51	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n13	9s10	4n22	13n35	4s56	20n39	0n49	23n31	0n11	16n18	0n41	8n36	1n49	16s35	0n19	21s28
T 2	17 58	12 29	4 54	13 49	4 52	20 24	0 51	23 34	0 12	16 14	0 41	8 33	1 49	16 36	0 19	21 28
F 3	17 43	15 17	5 11	14 4	4 46	20 9	0 53	23 36	0 12	16 10	0 41	8 31	1 49	16 36	0 19	21 28
S 4	17 28	17 22	5 13	14 21	4 39	19 53	0 55	23 37	0 13	16 6	0 42	8 28	1 48	16 36	0 19	21 28
S 5	17 12	18 30	4 56	14 38	4 30	19 36	0 57	23 39	0 14	16 2	0 42	8 25	1 48	16 36	0 19	21 28
M 6	16 56	18 30	4 20	14 55	4 20	19 19	0 59	23 40	0 15	15 58	0 42	8 23	1 48	16 36	0 19	21 28
T 7	16 39	17 14	3 26	15 13	4 9	19 1	1 0	23 42	0 16	15 54	0 42	8 20	1 48	16 36	0 19	21 28
W 8	16 22	14 45	2 17	15 31	3 56	18 43	1 2	23 43	0 16	15 50	0 42	8 17	1 48	16 37	0 19	21 28
T 9	16 5	11 15	0 58	15 48	3 42	18 24	1 3	23 44	0 17	15 46	0 42	8 15	1 48	16 37	0 19	21 28
F 10	15 48	7 1	0s26	16 5	3 27	18 5	1 5	23 44	0 18	15 42	0 42	8 12	1 48	16 37	0 19	21 28
S 11	15 31	2 24	1 46	16 21	3 11	17 45	1 6	23 45	0 19	15 38	0 42	8 9	1 48	16 37	0 19	21 28
S 12	15 13	2n16	2 58	16 36	2 55	17 25	1 8	23 45	0 20	15 34	0 42	8 6	1 48	16 37	0 19	21 28
M13	14 55	6 41	3 57	16 50	2 38	17 5	1 9	23 45	0 20	15 30	0 42	8 4	1 48	16 38	0 19	21 28
T 14	14 37	10 36	4 40	17 3	2 21	16 43	1 11	23 45	0 21	15 26	0 42	8 1	1 48	16 38	0 19	21 28
W15	14 19	13 51	5 7	17 14	2 4	16 22	1 12	23 44	0 22	15 22	0 42	7 58	1 48	16 38	0 19	21 28
T 16	14 0	16 19	5 16	17 23	1 47	16 0	1 13	23 44	0 23	15 17	0 42	7 55	1 48	16 39	0 19	21 28
F 17	13 41	17 54	5 10	17 31	1 30	15 37	1 14	23 43	0 24	15 13	0 42	7 53	1 48	16 39	0 19	21 28
S 18	13 22	18 35	4 50	17 36	1 13	15 14	1 15	23 42	0 25	15 9	0 43	7 50	1 48	16 39	0 19	21 28
S 19	13 3	18 23	4 16	17 39	0 57	14 51	1 16	23 41	0 25	15 5	0 43	7 47	1 48	16 40	0 19	21 28
M20	12 43	17 21	3 31	17 39	0 41	14 27	1 17	23 40	0 26	15 1	0 43	7 44	1 48	16 40	0 19	21 28
T 21	12 23	15 33	2 38	17 37	0 25	14 2	1 18	23 38	0 27	14 57	0 43	7 41	1 48	16 40	0 18	21 28
W22	12 3	13 6	1 38	17 32	0 10	13 38	1 19	23 37	0 28	14 53	0 43	7 39	1 48	16 41	0 18	21 28
T 23	11 43	10 7	0 34	17 25	0n 4	13 13	1 20	23 35	0 29	14 48	0 43	7 36	1 48	16 41	0 18	21 28
F 24	11 23	6 44	0n32	17 14	0 17	12 48	1 21	23 33	0 30	14 44	0 43	7 33	1 48	16 42	0 18	21 28
S 25	11 3	3 5	1 36	17 1	0 30	12 22	1 22	23 30	0 30	14 40	0 43	7 30	1 48	16 42	0 18	21 28
S 26	10 42	0s42	2 36	16 45	0 41	11 56	1 22	23 28	0 31	14 36	0 43	7 27	1 48	16 43	0 18	21 28
M27	10 21	4 29	3 30	16 26	0 52	11 29	1 23	23 26	0 32	14 32	0 43	7 24	1 48	16 43	0 18	21 28
T 28	10 0	8 8	4 16	16 4	1 2	11 3	1 23	23 23	0 33	14 27	0 43	7 21	1 48	16 44	0 18	21 28
W29	9 39	11 30	4 50	15 39	1 11	10 36	1 24	23 20	0 34	14 23	0 43	7 19	1 48	16 44	0 18	21 28
T 30	9 18	14 25	5 12	15 11	1 18	10 9	1 24	23 17	0 35	14 19	0 44	7 16	1 48	16 45	0 18	21 28
F 31	8n56	16s42	5n18	14n41	1n25	9n41	1n24	23n14	0n36	14n15	0n44	7n13	1n48	16s45	0n18	21s28

Julian Day Number = 2444086.5, Delta T = 50.15 sec

Ecliptic obliquity = 23°26'22", Nutation = - 0°00'05", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°27'18", Lahiri = 23°34'19"

ASTRODIENST EPHEMERIS for the year 1979

geocentric

SEPTEMBER 1979

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 38 15	7♍58'35	23♌23	26♌23	9♍45	15♌15	24♌6	16♍3	17♍30	17♌43	17♌34	8°D28	8♍21	5♍55	13°R51	S 1
S 2	22 42 12	8°56'38	7♌14	28°17	10°59	15°53	24°19	16°11	17°31	17°43	17°36	8♍28	8°18	6°1	13♌50	S 2
M 3	22 46 8	9°54'43	21°30	0♍11	12°14	16°31	24°32	16°18	17°33	17°44	17°38	8°29	8°15	6°8	13°49	M 3
T 4	22 50 5	10°52'49	6♌10	2°7	13°28	17°9	24°45	16°26	17°35	17°44	17°40	8°29	8°12	6°15	13°48	T 4
W 5	22 54 1	11°50'56	21°8	4°3	14°43	17°47	24°57	16°33	17°37	17°44	17°42	8°29	8°9	6°21	13°47	W 5
T 6	22 57 58	12°49'05	6♌18	6°0	15°57	18°24	25°10	16°41	17°39	17°44	17°44	8°R29	8°6	6°28	13°46	T 6
F 7	23 1 55	13°47'15	21°30	7°56	17°12	19°2	25°23	16°48	17°41	17°44	17°46	8°29	8°2	6°35	13°45	F 7
S 8	23 5 51	14°45'27	6♍35	9°52	18°26	19°39	25°36	16°56	17°44	17°45	17°48	8°29	7°59	6°41	13°44	S 8
S 9	23 9 48	15°43'41	21°24	11°48	19°41	20°17	25°49	17°3	17°46	17°45	17°50	8°28	7°56	6°48	13°43	S 9
M10	23 13 44	16°41'57	5♌51	13°43	20°55	20°54	26°1	17°11	17°48	17°45	17°52	8°27	7°53	6°54	13°42	M10
T 11	23 17 41	17°40'16	19°51	15°38	22°10	21°32	26°14	17°18	17°50	17°46	17°55	8°26	7°50	7°1	13°40	T 11
W12	23 21 37	18°38'36	3♌24	17°32	23°24	22°9	26°27	17°26	17°52	17°46	17°57	8°25	7°46	7°8	13°39	W12
T 13	23 25 34	19°36'58	16°31	19°25	24°39	22°46	26°39	17°33	17°55	17°46	17°59	8°D25	7°43	7°14	13°38	T 13
F 14	23 29 30	20°35'23	29°15	21°17	25°53	23°23	26°52	17°41	17°57	17°47	18°1	8°25	7°40	7°21	13°36	F 14
S 15	23 33 27	21°33'50	11♌39	23°8	27°8	24°0	27°4	17°48	18°0	17°47	18°3	8°26	7°37	7°28	13°35	S 15
S 16	23 37 24	22°32'18	23°47	24°58	28°23	24°37	27°17	17°56	18°2	17°48	18°5	8°27	7°34	7°34	13°33	S 16
M17	23 41 20	23°30'49	5♌45	26°47	29°37	25°13	27°29	18°4	18°5	17°48	18°8	8°28	7°31	7°41	13°31	M17
T 18	23 45 17	24°29'22	17°36	28°35	0♌52	25°50	27°42	18°11	18°7	17°49	18°10	8°29	7°27	7°48	13°30	T 18
W19	23 49 13	25°27'57	29°23	0♌22	2°6	26°27	27°54	18°19	18°10	17°50	18°12	8°30	7°24	7°54	13°28	W19
T 20	23 53 10	26°26'34	11♍10	2°8	3°21	27°3	28°6	18°26	18°12	17°50	18°14	8°R31	7°21	8°1	13°26	T 20
F 21	23 57 6	27°25'13	22°59	3°53	4°36	27°40	28°19	18°33	18°15	17°51	18°16	8°30	7°18	8°8	13°25	F 21
S 22	0 1 3	28°23'54	4♌53	5°37	5°50	28°16	28°31	18°41	18°18	17°52	18°19	8°28	7°15	8°14	13°23	S 22
S 23	0 4 59	29°22'37	16°53	7°20	7°5	28°52	28°43	18°48	18°20	17°52	18°21	8°26	7°12	8°21	13°21	S 23
M24	0 8 56	0♌21'22	29°2	9°2	8°20	29°28	28°55	18°56	18°23	17°53	18°23	8°22	7°8	8°27	13°19	M24
T 25	0 12 52	1°20'09	11♌21	10°43	9°34	0♌4	29°7	19°3	18°26	17°54	18°26	8°18	7°5	8°34	13°17	T 25
W26	0 16 49	2°18'57	23°52	12°23	10°49	0°40	29°19	19°11	18°29	17°55	18°28	8°15	7°2	8°41	13°15	W26
T 27	0 20 46	3°17'47	6♌38	14°2	12°4	1°16	29°31	19°18	18°32	17°56	18°30	8°12	6°59	8°47	13°13	T 27
F 28	0 24 42	4°16'39	19°39	15°41	13°18	1°51	29°43	19°25	18°35	17°57	18°33	8°10	6°56	8°54	13°11	F 28
S 29	0 28 39	5°15'33	3♌0	17°18	14°33	2°27	29°55	19°33	18°38	17°58	18°35	8°D 9	6°52	9°1	13°9	S 29
S 30	0 32 35	6♌14'29	16♌40	18♌54	15♌48	3♌2	0♍7	19♍40	18♍41	17♌59	18♌37	8♍9	6♍49	9♍7	13♌7	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n35	18s 9	5n 7	14n 9	1n31	9n13	1n25	23n10	0n36	14n11	0n44	7n10	1n48	16s46	0n18	21s28	1n24	8n34	16n43	8n24	8n26	9n 8	14n37	1s26	
S 2	8 13	18 36	4 39	13 34	1 36	8 45	1 25	23 7	0 37	14 6	0 44	7 7	1 48	16 46	0 18	21 29	1 24	8 33	16 43	8 24	8 27	9 7	14 37	1 27	
M 3	7 51	17 53	3 53	12 58	1 40	8 17	1 25	23 3	0 38	14 2	0 44	7 4	1 48	16 47	0 18	21 29	1 24	8 32	16 42	8 24	8 29	9 5	14 36	1 27	
T 4	7 29	15 59	2 50	12 19	1 43	7 48	1 25	22 59	0 39	13 58	0 44	7 1	1 48	16 47	0 18	21 29	1 24	8 31	16 42	8 23	8 30	9 3	14 36	1 27	
W 5	7 7	12 57	1 35	11 39	1 45	7 20	1 25	22 55	0 40	13 54	0 44	6 58	1 48	16 48	0 18	21 29	1 24	8 30	16 42	8 23	8 31	9 2	14 36	1 27	
T 6	6 45	9 1	0 12	10 58	1 47	6 51	1 25	22 51	0 41	13 50	0 44	6 55	1 48	16 48	0 18	21 29	1 24	8 29	16 41	8 23	8 32	9 0	14 35	1 27	
F 7	6 23	4 28	1s12	10 15	1 47	6 21	1 25	22 47	0 42	13 45	0 44	6 53	1 49	16 49	0 18	21 29	1 24	8 28	16 41	8 23	8 33	8 59	14 35	1 27	
S 8	6 0	0n19	2 30	9 31	1 47	5 52	1 24	22 42	0 42	13 41	0 44	6 50	1 49	16 50	0 18	21 29	1 24	8 27	16 41	8 24	8 34	8 57	14 34	1 27	
S 9	5 38	5 0	3 37	8 47	1 47	5 23	1 24	22 37	0 43	13 37	0 45	6 47	1 49	16 50	0 18	21 29	1 24	8 26	16 40	8 24	8 36	8 55	14 34	1 28	
M10	5 15	9 15	4 28	8 1	1 45	4 53	1 24	22 33	0 44	13 33	0 45	6 44	1 49	16 51	0 18	21 29	1 24	8 24	16 40	8 24	8 37	8 54	14 33	1 28	
T 11	4 52	12 52	5 1	7 15	1 43	4 23	1 23	22 28	0 45	13 29	0 45	6 41	1 49	16 52	0 18	21 29	1 24	8 23	16 40	8 24	8 38	8 52	14 33	1 28	
W12	4 30	15 39	5 16	6 28	1 41	3 53	1 23	22 23	0 46	13 24	0 45	6 38	1 49	16 52	0 18	21 29	1 24	8 22	16 40	8 25	8 39	8 50	14 32	1 28	
T 13	4 7	17 33	5 14	5 41	1 38	3 23	1 22	22 17	0 47	13 20	0 45	6 35	1 49	16 53	0 18	21 29	1 24	8 21	16 39	8 25	8 40	8 49	14 32	1 28	
F 14	3 44	18 29	4 57	4 54	1 34	2 53	1 22	22 12	0 48	13 16	0 45	6 32	1 49	16 54	0 18	21 29	1 24	8 20	16 39	8 25	8 42	8 47	14 31	1 28	
S 15	3 21	18 31	4 26	4 7	1 30	2 23	1 21	22 7	0 49	13 12	0 45	6 29	1 49	16 54	0 18	21 30	1 24	8 19	16 39	8 25	8 43	8 45	14 30	1 29	
S 16	2 58	17 41	3 43	3 19	1 26	1 53	1 20	22 1	0 50	13 8	0 45	6 27	1 49	16 55	0 18	21 30	1 23	8 18	16 39	8 24	8 44	8 44	14 30	1 29	
M17	2 35	16 3	2 52	2 31	1 21	1 22	1 20	21 55	0 51	13 3	0 45	6 24	1 49	16 56	0 18	21 30	1 23	8 17	16 38	8 24	8 45	8 42	14 29	1 29	
T 18	2 11	13 46	1 53	1 44	1 16	0 52	1 19	21 49	0 51	12 59	0 46	6 21	1 49	16 57	0 18	21 30	1 23	8 16	16 38	8 23	8 46	8 40	14 28	1 29	
W19	1 48	10 54	0 50	0 56	1 11	0 21	1 18	21 43	0 52	12 55	0 46	6 18	1 49	16 57	0 18	21 30	1 23	8 15	16 38	8 23	8 48	8 39	14 28	1 29	
T 20	1 25	7 36	0n15	0 9	1 6	0s 9	1 17	21 37	0 53	12 51	0 46	6 15	1 49	16 58	0 18	21 30	1 23	8 14	16 38	8 23	8 49	8 37	14 27	1 29	
F 21	1 2	4 0	1 19	0s38	1 0	0 40	1 16	21 31	0 54	12 47	0 46	6 12	1 49	16 59	0 18	21 30	1 23	8 13	16 38	8 23	8 50	8 36	14 27	1 29	
S 22	0 38	0 13	2 21	1 25	0 54	1 10	1 15	21 25	0 55	12 43	0 46	6 9	1 49	17 0	0 18	21 30	1 23	8 12	16 38	8 24	8 51	8 34	14 26	1 30	
S 23	0 15	3s37	3 16	2 11	0 48	1 41	1 14	21 18	0 56	12 39	0 46	6 6	1 50	17 0	0 18	21 30	1 23	8 11	16 37	8 25	8 52	8 32	14 25	1 30	
M24	0s 8	7 20	4 4	2 57	0 41	2 12	1 12	21 12	0 57	12 34	0 46	6 4	1 50	17 1	0 18	21 31	1 23	8 10	16 37	8 26	8 53	8 31	14 24	1 30	
T 25	0 32	10 47	4 41	3 43	0 35	2 42	1 11	21 5	0 58	12 30	0 46	6 1	1 50	17 2	0 18	21 31	1 23	8 9	16 37	8 27	8 55	8 29	14 24	1 30	
W26	0 55	13 49	5 5	4 28	0 28	3 13	1 10	20 58	0 59	12 26	0 47	5 58	1 50	17 3	0 18	21 31	1 23	8 8	16 37	8 29	8 56	8 27	14 23	1 30	
T 27	1 19	16 15	5 14	5 13	0 21	3 43	1 9	20 51	1 0	12 22	0 47	5 55	1 50	17 3	0 18	21 31	1 23	8 7	16 37	8 30	8 57	8 26	14 22	1 30	
F 28	1 42	17 55	5 8	5 57	0 14	4 13	1 7	20 44	1 1	12 18	0 47	5 52	1 50	17 4	0 18	21 31	1 23	8 7	16 37	8 30	8 58	8 24	14 21	1 30	
S 29	2 5	18 39	4 46	6 41	0 7	4 44	1 6	20 37	1 2	12 14	0 47	5 50	1 50	17 5	0 18	21 31	1 23	8 6	16 36	8 31	8 59	8 22	14 21	1 31	
S 30	2s29	18s19	4n 6	7s24	0n 0	5s14	1n 4	20n30	1n 3	12n10	0n47	5n47	1n50	17s 6	0n18	21s31	1n23	8n 5	16n36	8n31	9n 0	8n20	14n20	1s31	

ASTRODIENST EPHEMERIS for the year 1979
geocentric

OCTOBER 1979

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 36 32	7♏13'26	0♊42	20♏30	17♏2	3♏37	0♏18	19♏47	18♏44	17♏59	18♏40	8♏11	6♏46	9♏14	13♏R 4	M 1
T 2	0 40 28	8°12'25	15° 5	22° 5	18°17	4°13	0°30	19°55	18°47	18° 1	18°42	8°12	6°43	9°21	13♏2	T 2
W 3	0 44 25	9°11'26	29°46	23°38	19°32	4°48	0°42	20° 2	18°50	18° 2	18°44	8°13	6°40	9°27	13° 0	W 3
T 4	0 48 21	10°10'28	14♏41	25°11	20°47	5°23	0°53	20° 9	18°53	18° 3	18°47	8°R13	6°37	9°34	12°58	T 4
F 5	0 52 18	11° 9'32	29°42	26°43	22° 1	5°58	1° 5	20°16	18°56	18° 4	18°49	8°12	6°33	9°41	12°55	F 5
S 6	0 56 15	12° 8'39	14♏43	28°15	23°16	6°32	1°16	20°24	18°59	18° 5	18°51	8° 9	6°30	9°47	12°53	S 6
S 7	1 0 11	13° 7'47	29°33	29°45	24°31	7° 7	1°27	20°31	19° 2	18° 6	18°54	8° 4	6°27	9°54	12°50	S 7
M 8	1 4 8	14° 6'57	14♏4	1♏15	25°45	7°41	1°39	20°38	19° 5	18° 7	18°56	7°59	6°24	10° 1	12°48	M 8
T 9	1 8 4	15° 6'10	28°12	2°44	27° 0	8°16	1°50	20°45	19° 9	18° 9	18°58	7°53	6°21	10° 7	12°45	T 9
W10	1 12 1	16° 5'25	11♏52	4°12	28°15	8°50	2° 1	20°52	19°12	18°10	19° 1	7°48	6°17	10°14	12°43	W10
T 11	1 15 57	17° 4'42	25° 5	5°39	29°29	9°24	2°12	20°59	19°15	18°11	19° 3	7°44	6°14	10°20	12°40	T 11
F 12	1 19 54	18° 4'02	7♏52	7° 6	0♏44	9°58	2°23	21° 6	19°18	18°12	19° 6	7°42	6°11	10°27	12°38	F 12
S 13	1 23 50	19° 3'24	20°17	8°31	1°59	10°32	2°34	21°13	19°22	18°14	19° 8	7°D41	6° 8	10°34	12°35	S 13
S 14	1 27 47	20° 2'48	2♏25	9°56	3°14	11° 6	2°44	21°20	19°25	18°15	19°10	7°42	6° 5	10°40	12°32	S 14
M15	1 31 44	21° 2'15	14°20	11°20	4°28	11°40	2°55	21°27	19°29	18°17	19°13	7°44	6° 2	10°47	12°30	M15
T 16	1 35 40	22° 1'44	26° 9	12°43	5°43	12°13	3° 6	21°34	19°32	18°18	19°15	7°45	5°58	10°54	12°27	T 16
W17	1 39 37	23° 1'15	7♏55	14° 5	6°58	12°47	3°16	21°41	19°35	18°19	19°18	7°R46	5°55	11° 0	12°24	W17
T 18	1 43 33	24° 0'48	19°44	15°25	8°13	13°20	3°27	21°47	19°39	18°21	19°20	7°45	5°52	11° 7	12°22	T 18
F 19	1 47 30	25° 0'23	1♏37	16°45	9°27	13°53	3°37	21°54	19°42	18°22	19°22	7°42	5°49	11°14	12°19	F 19
S 20	1 51 26	26° 0'01	13°40	18° 4	10°42	14°26	3°47	22° 1	19°46	18°24	19°25	7°37	5°46	11°20	12°16	S 20
S 21	1 55 23	26°59'40	25°52	19°21	11°57	14°59	3°58	22° 8	19°49	18°25	19°27	7°29	5°43	11°27	12°13	S 21
M22	1 59 19	27°59'22	8♏16	20°37	13°12	15°31	4° 8	22°14	19°53	18°27	19°29	7°20	5°39	11°34	12°10	M22
T 23	2 3 16	28°59'05	20°52	21°52	14°26	16° 4	4°18	22°21	19°56	18°29	19°32	7°11	5°36	11°40	12° 7	T 23
W24	2 7 12	29°58'51	3♏41	23° 5	15°41	16°36	4°28	22°27	20° 0	18°30	19°34	7° 1	5°33	11°47	12° 5	W24
T 25	2 11 9	0♏58'38	16°41	24°17	16°56	17° 8	4°37	22°34	20° 3	18°32	19°36	6°53	5°30	11°53	12° 2	T 25
F 26	2 15 6	1°58'27	29°54	25°26	18°11	17°40	4°47	22°40	20° 7	18°34	19°39	6°46	5°27	12° 0	11°59	F 26
S 27	2 19 2	2°58'18	13♏19	26°34	19°25	18°12	4°57	22°46	20°11	18°35	19°41	6°42	5°23	12° 7	11°56	S 27
S 28	2 22 59	3°58'10	26°58	27°40	20°40	18°44	5° 6	22°53	20°14	18°37	19°44	6°40	5°20	12°13	11°53	S 28
M29	2 26 55	4°58'05	10♏51	28°43	21°55	19°16	5°15	22°59	20°18	18°39	19°46	6°D40	5°17	12°20	11°50	M29
T 30	2 30 52	5°58'00	24°58	29°43	23°10	19°47	5°25	23° 5	20°22	18°41	19°48	6°41	5°14	12°27	11°47	T 30
W31	2 34 48	6♏57'57	9♏18	0♏40	24♏24	20♏18	5♏34	23♏11	20♏25	18♏42	19♏50	6°R41	5♏11	12♏33	11♏44	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	2s52	16s53 3n12	8s 7 0s 7	5s44 1n 2	20n23 1n 4	12n 6 0n47	5n44 1n50	17s 7 0n18	21s31 1n23	8n 4 16n36	8n30 9n 2	8n19 14n19	1s31			
T 2	3 15	14 21 2 4	8 49 0 14	6 14 1 1	20 15 1 5	12 2 0 47	5 41 1 50	17 8 0 18	21 32 1 23	8 3 16 36	8 30 9 3	8 17 14 18	1 31			
W 3	3 39	10 50 0 46	9 30 0 21	6 44 0 59	20 8 1 6	11 58 0 48	5 38 1 50	17 9 0 18	21 32 1 23	8 2 16 36	8 29 9 4	8 15 14 17	1 31			
T 4	4 2	6 35 0s35	10 11 0 28	7 13 0 57	20 0 1 7	11 54 0 48	5 36 1 51	17 9 0 18	21 32 1 23	8 1 16 36	8 29 9 5	8 14 14 17	1 31			
F 5	4 25	1 52 1 55	10 51 0 36	7 43 0 56	19 52 1 8	11 50 0 48	5 33 1 51	17 10 0 17	21 32 1 22	8 0 16 36	8 30 9 6	8 12 14 16	1 31			
S 6	4 48	2n56 3 6	11 31 0 43	8 12 0 54	19 45 1 9	11 46 0 48	5 30 1 51	17 11 0 17	21 32 1 22	7 59 16 36	8 31 9 8	8 10 14 15	1 32			
S 7	5 11	7 30 4 4	12 10 0 50	8 42 0 52	19 37 1 10	11 42 0 48	5 28 1 51	17 12 0 17	21 32 1 22	7 58 16 36	8 33 9 9	8 9 14 14	1 32			
M 8	5 34	11 31 4 45	12 48 0 57	9 11 0 50	19 29 1 11	11 39 0 48	5 25 1 51	17 13 0 17	21 33 1 22	7 57 16 36	8 35 9 10	8 7 14 13	1 32			
T 9	5 57	14 46 5 7	13 25 1 4	9 40 0 48	19 21 1 12	11 35 0 48	5 22 1 51	17 14 0 17	21 33 1 22	7 56 16 36	8 37 9 11	8 5 14 12	1 32			
W10	6 20	17 5 5 11	14 2 1 11	10 8 0 46	19 13 1 13	11 31 0 49	5 19 1 51	17 15 0 17	21 33 1 22	7 55 16 36	8 39 9 12	8 4 14 11	1 32			
T 11	6 43	18 24 4 57	14 38 1 18	10 36 0 44	19 5 1 14	11 27 0 49	5 17 1 51	17 16 0 17	21 33 1 22	7 55 16 36	8 40 9 13	8 2 14 11	1 32			
F 12	7 5	18 43 4 30	15 13 1 25	11 5 0 42	18 57 1 15	11 23 0 49	5 14 1 52	17 17 0 17	21 33 1 22	7 54 16 36	8 41 9 15	8 0 14 10	1 32			
S 13	7 28	18 7 3 50	15 47 1 31	11 32 0 40	18 49 1 16	11 20 0 49	5 12 1 52	17 17 0 17	21 33 1 22	7 53 16 36	8 41 9 16	7 59 14 9	1 32			
S 14	7 50	16 42 3 0	16 21 1 38	12 0 0 38	18 40 1 17	11 16 0 49	5 9 1 52	17 18 0 17	21 33 1 22	7 52 16 36	8 41 9 17	7 57 14 8	1 33			
M15	8 13	14 33 2 4	16 53 1 45	12 27 0 35	18 32 1 18	11 12 0 49	5 6 1 52	17 19 0 17	21 34 1 22	7 51 16 36	8 40 9 18	7 55 14 7	1 33			
T 16	8 35	11 49 1 3	17 25 1 51	12 54 0 33	18 24 1 19	11 8 0 50	5 4 1 52	17 20 0 17	21 34 1 22	7 50 16 36	8 40 9 19	7 53 14 6	1 33			
W17	8 57	8 37 0n 1	17 55 1 57	13 21 0 31	18 15 1 20	11 5 0 50	5 1 1 52	17 21 0 17	21 34 1 22	7 49 16 36	8 40 9 20	7 52 14 5	1 33			
T 18	9 19	5 3 1 4	18 25 2 3	13 48 0 29	18 7 1 21	11 1 0 50	4 59 1 52	17 22 0 17	21 34 1 22	7 49 16 36	8 40 9 22	7 50 14 4	1 33			
F 19	9 41	1 16 2 5	18 54 2 9	14 14 0 26	17 58 1 22	10 58 0 50	4 56 1 53	17 23 0 17	21 34 1 22	7 48 16 36	8 41 9 23	7 48 14 3	1 33			
S 20	10 3	2s36 3 1	19 22 2 14	14 39 0 24	17 50 1 23	10 54 0 50	4 54 1 53	17 24 0 17	21 34 1 22	7 47 16 36	8 43 9 24	7 47 14 2	1 33			
S 21	10 24	6 25 3 50	19 48 2 20	15 5 0 21	17 41 1 24	10 50 0 50	4 51 1 53	17 25 0 17	21 35 1 22	7 46 16 36	8 46 9 25	7 45 14 1	1 33			
M22	10 46	10 2 4 28	20 14 2 25	15 30 0 19	17 32 1 25	10 47 0 51	4 49 1 53	17 26 0 17	21 35 1 22	7 45 16 36	8 49 9 26	7 43 14 0	1 34			
T 23	11 7	13 15 4 54	20 38 2 29	15 54 0 17	17 24 1 26	10 43 0 51	4 46 1 53	17 27 0 17	21 35 1 22	7 45 16 36	8 53 9 27	7 41 13 59	1 34			
W24	11 28	15 53 5 6	21 2 2 34	16 19 0 14	17 15 1 27	10 40 0 51	4 44 1 53	17 28 0 17	21 35 1 22	7 44 16 36	8 56 9 29	7 40 13 58	1 34			
T 25	11 49	17 46 5 2	21 24 2 38	16 42 0 12	17 6 1 28	10 37 0 51	4 41 1 53	17 29 0 17	21 35 1 22	7 43 16 36	8 59 9 30	7 38 13 57	1 34			
F 26	12 10	18 45 4 42	21 44 2 42	17 6 0 9	16 57 1 30	10 33 0 51	4 39 1 54	17 30 0 17	21 36 1 22	7 42 16 37	9 2 9 31	7 36 13 56	1 34			
S 27	12 30	18 41 4 6	22 4 2 45	17 29 0 7	16 49 1 31	10 30 0 52	4 37 1 54	17 31 0 17	21 36 1 22	7 42 16 37	9 3 9 32	7 35 13 55	1 34			
S 28	12 51	17 33 3 16	22 22 2 48	17 51 0 4	16 40 1 32	10 27 0 52	4 34 1 54	17 32 0 17	21 36 1 21	7 41 16 37	9 4 9 33	7 33 13 54	1 34			
M29	13 11	15 22 2 14	22 39 2 50	18 13 0 2	16 31 1 33	10 23 0 52	4 32 1 54	17 33 0 17	21 36 1 21	7 40 16 37	9 4 9 34	7 31 13 53	1 34			
T 30	13 31	12 13 1 2	22 54 2 52	18 35 0s 1	16 22 1 34	10 20 0 52	4 30 1 54	17 34 0 17	21 36 1 21	7 40 16 37	9 4 9 36	7 29 13 52	1 34			
W31	13s50	8s18 0s14	23s 7 2s54	18s56 0s 3	16n13 1n35	10n17 0n52	4n27 1n55	17s35 0n17	21s36 1n21	7n39 16n37	9n 3 9n37	7n28 13n51	1s34			

Julian Day Number = 2444147.5, Delta T = 50.31 sec
Ecliptic obliquity = 23°26'23", Nutation = - 0°00'07", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°27'27", Lahiri = 23°34'27"

ASTRODIENST EPHEMERIS for the year 1979
geocentric

NOVEMBER 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 38 45	7♏57°56	23♏49	1♏34	25♏39	20♏49	5♏43	23♏17	20♏29	18♏44	19♏53	6♏40	5♏8	12♏40	11♏41	T 1
F 2	2 42 41	8♏57°57	8♏28	2°24	26°54	21°20	5°52	23°24	20°33	18°46	19°55	6♏36	5°4	12°47	11♏38	F 2
S 3	2 46 38	9♏57°59	23°8	3°10	28°8	21°51	6°1	23°30	20°36	18°48	19°57	6°30	5°1	12°53	11°35	S 3
S 4	2 50 35	10°58'03	7♏43	3°51	29°23	22°21	6°9	23°35	20°40	18°50	20°0	6°21	4°58	13°0	11°32	S 4
M 5	2 54 31	11°58'09	22°6	4°27	0♏38	22°52	6°18	23°41	20°44	18°52	20°2	6°11	4°55	13°7	11°29	M 5
T 6	2 58 28	12°58'16	6♏9	4°57	1°53	23°22	6°26	23°47	20°47	18°53	20°4	6°0	4°52	13°13	11°26	T 6
W 7	3 2 24	13°58'26	19°49	5°21	3°7	23°52	6°35	23°53	20°51	18°55	20°6	5°50	4°48	13°20	11°23	W 7
T 8	3 6 21	14°58'38	3♏3	5°38	4°22	24°22	6°43	23°58	20°55	18°57	20°9	5°41	4°45	13°26	11°20	T 8
F 9	3 10 17	15°58'51	15°53	5°47	5°37	24°51	6°51	24°4	20°58	18°59	20°11	5°34	4°42	13°33	11°18	F 9
S 10	3 14 14	16°59'07	28°21	5°R48	6°51	25°21	6°59	24°10	21°2	19°1	20°13	5°31	4°39	13°40	11°15	S 10
S 11	3 18 10	17°59'25	10♏30	5°39	8°6	25°50	7°7	24°15	21°6	19°3	20°15	5°29	4°36	13°46	11°12	S 11
M12	3 22 7	18°59'44	22°26	5°21	9°21	26°19	7°14	24°20	21°10	19°5	20°17	5°D29	4°33	13°53	11°9	M12
T 13	3 26 4	20°0'06	4♏15	4°54	10°35	26°48	7°22	24°26	21°13	19°7	20°19	5°R29	4°29	14°0	11°6	T 13
W14	3 30 0	21°0'29	16°2	4°15	11°50	27°16	7°29	24°31	21°17	19°9	20°22	5°28	4°26	14°6	11°3	W14
T 15	3 33 57	22°0'54	27°53	3°27	13°5	27°45	7°36	24°36	21°21	19°11	20°24	5°26	4°23	14°13	11°0	T 15
F 16	3 37 53	23°1'21	9♏51	2°29	14°20	28°13	7°44	24°41	21°25	19°13	20°26	5°22	4°20	14°20	10°57	F 16
S 17	3 41 50	24°1'50	22°1	1°23	15°34	28°41	7°51	24°46	21°28	19°16	20°28	5°14	4°17	14°26	10°54	S 17
S 18	3 45 46	25°2'21	4♏26	0°10	16°49	29°8	7°57	24°51	21°32	19°18	20°30	5°4	4°14	14°33	10°51	S 18
M19	3 49 43	26°2'53	17°6	28♏52	18°4	29°36	8°4	24°56	21°36	19°20	20°32	4°51	4°10	14°40	10°48	M19
T 20	3 53 39	27°3'27	0♏2	27°31	19°18	0♏3	8°11	25°1	21°40	19°22	20°34	4°38	4°7	14°46	10°46	T 20
W21	3 57 36	28°4'03	13°13	26°10	20°33	0°30	8°17	25°6	21°43	19°24	20°36	4°24	4°4	14°53	10°43	W21
T 22	4 1 33	29°4'40	26°37	24°51	21°48	0°56	8°23	25°10	21°47	19°26	20°38	4°12	4°1	15°0	10°40	T 22
F 23	4 5 29	0♏5'18	10♏11	23°38	23°2	1°23	8°29	25°15	21°51	19°28	20°40	4°3	3°58	15°6	10°37	F 23
S 24	4 9 26	1°5'58	23°54	22°32	24°17	1°49	8°35	25°19	21°54	19°30	20°42	3°56	3°54	15°13	10°35	S 24
S 25	4 13 22	2°6'38	7♏44	21°36	25°32	2°15	8°41	25°24	21°58	19°33	20°44	3°52	3°51	15°19	10°32	S 25
M26	4 17 19	3°7'20	21°40	20°50	26°46	2°40	8°47	25°28	22°2	19°35	20°46	3°51	3°48	15°26	10°29	M26
T 27	4 21 15	4°8'03	5♏41	20°15	28°1	3°5	8°52	25°32	22°5	19°37	20°48	3°51	3°45	15°33	10°26	T 27
W28	4 25 12	5°8'46	19°48	19°52	29°15	3°30	8°58	25°36	22°9	19°39	20°50	3°50	3°42	15°39	10°24	W28
T 29	4 29 8	6°9'31	3♏59	19°41	0♏30	3°55	9°3	25°40	22°13	19°41	20°51	3°49	3°39	15°46	10°21	T 29
F 30	4 33 5	7♏10'17	18♏12	19°D41	1♏45	4♏20	9♏8	25♏44	22♏16	19♏44	20♏53	3♏44	3♏35	15♏53	10♏19	F 30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉	♊	♋	♌	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat				
T 1	14s10	3s50	1s30	23s19	2s54	19s16	0s 6	16n 5	1n36	10n14	0n53	4n25	1n55	17s36	0n17	21s37	1n21	7n38	16n37	9n 4	9n38	7n26	13n50	1s35		
F 2	14 29	0n53	2 41	23 29	2 54	19 36	0 8	15 56	1 38	10 11	0 53	4 23	1 55	17 37	0 17	21 37	1 21	7 38	16 38	9 5	9 39	7 24	13 49	1 35		
S 3	14 48	5 34	3 41	23 37	2 53	19 56	0 11	15 47	1 39	10 8	0 53	4 21	1 55	17 38	0 17	21 37	1 21	7 37	16 38	9 8	9 40	7 22	13 48	1 35		
S 4	15 7	9 53	4 27	23 44	2 52	20 14	0 14	15 38	1 40	10 5	0 53	4 19	1 55	17 39	0 17	21 37	1 21	7 36	16 38	9 11	9 41	7 21	13 47	1 35		
M 5	15 26	13 33	4 54	23 48	2 49	20 33	0 16	15 29	1 41	10 2	0 53	4 16	1 55	17 40	0 17	21 37	1 21	7 36	16 38	9 15	9 43	7 19	13 46	1 35		
T 6	15 44	16 21	5 3	23 50	2 45	20 51	0 19	15 20	1 42	9 59	0 54	4 14	1 56	17 41	0 17	21 38	1 21	7 35	16 38	9 19	9 44	7 17	13 45	1 35		
W 7	16 2	18 10	4 54	23 50	2 41	21 8	0 21	15 12	1 43	9 56	0 54	4 12	1 56	17 42	0 17	21 38	1 21	7 34	16 39	9 22	9 45	7 15	13 44	1 35		
T 8	16 20	18 55	4 30	23 47	2 35	21 24	0 24	15 3	1 45	9 53	0 54	4 10	1 56	17 43	0 17	21 38	1 21	7 34	16 39	9 26	9 46	7 14	13 43	1 35		
F 9	16 37	18 39	3 52	23 41	2 27	21 40	0 26	14 54	1 46	9 50	0 54	4 8	1 56	17 44	0 17	21 38	1 21	7 33	16 39	9 28	9 47	7 12	13 43	1 35		
S 10	16 55	17 29	3 4	23 33	2 19	21 56	0 29	14 45	1 47	9 48	0 54	4 6	1 56	17 45	0 17	21 38	1 21	7 33	16 39	9 29	9 48	7 10	13 42	1 35		
S 11	17 11	15 32	2 9	23 21	2 8	22 11	0 32	14 37	1 48	9 45	0 55	4 4	1 57	17 46	0 17	21 39	1 21	7 32	16 40	9 30	9 50	7 8	13 41	1 35		
M12	17 28	12 57	1 9	23 6	1 57	22 25	0 34	14 28	1 50	9 42	0 55	4 2	1 57	17 47	0 17	21 39	1 21	7 32	16 40	9 30	9 51	7 7	13 40	1 35		
T 13	17 45	9 51	0 7	22 48	1 43	22 38	0 37	14 19	1 51	9 40	0 55	4 0	1 57	17 48	0 17	21 39	1 21	7 31	16 40	9 30	9 52	7 5	13 39	1 36		
W14	18 1	6 22	0n56	22 26	1 28	22 51	0 39	14 11	1 52	9 37	0 55	3 58	1 57	17 49	0 17	21 39	1 21	7 31	16 40	9 30	9 53	7 3	13 38	1 36		
T 15	18 16	2 37	1 56	22 1	1 11	23 3	0 42	14 2	1 53	9 35	0 56	3 57	1 58	17 50	0 17	21 39	1 21	7 30	16 41	9 31	9 54	7 1	13 37	1 36		
F 16	18 32	1s16	2 52	21 32	0 53	23 15	0 44	13 53	1 55	9 32	0 56	3 55	1 58	17 51	0 17	21 40	1 21	7 30	16 41	9 33	9 55	7 0	13 36	1 36		
S 17	18 47	5 10	3 40	21 0	0 34	23 26	0 46	13 45	1 56	9 30	0 56	3 53	1 58	17 51	0 17	21 40	1 21	7 29	16 41	9 35	9 56	6 58	13 35	1 36		
S 18	19 2	8 56	4 19	20 25	0 14	23 36	0 49	13 36	1 57	9 27	0 56	3 51	1 58	17 52	0 17	21 40	1 21	7 29	16 42	9 39	9 58	6 56	13 34	1 36		
M19	19 16	12 22	4 46	19 48	0n 6	23 45	0 51	13 28	1 59	9 25	0 56	3 49	1 58	17 53	0 17	21 40	1 21	7 28	16 42	9 44	9 59	6 54	13 33	1 36		
T 20	19 30	15 17	4 59	19 10	0 27	23 54	0 54	13 20	2 0	9 23	0 57	3 48	1 59	17 54	0 17	21 40	1 21	7 28	16 42	9 49	10 0	6 53	13 32	1 36		
W21	19 44	17 29	4 57	18 32	0 47	24 2	0 56	13 11	2 1	9 21	0 57	3 46	1 59	17 55	0 17	21 40	1 21	7 27	16 43	9 54	10 1	6 51	13 31	1 36		
T 22	19 57	18 46	4 38	17 55	1 6	24 9	0 58	13 3	2 3	9 18	0 57	3 44	1 59	17 56	0 17	21 41	1 21	7 27	16 43	9 58	10 2	6 49	13 30	1 36		
F 23	20 10	19 0	4 3	17 20	1 24	24 16	1 0	12 55	2 4	9 16	0 57	3 43	1 59	17 57	0 17	21 41	1 21	7 27	16 43	10 2	10 3	6 47	13 29	1 36		
S 24	20 23	18 8	3 14	16 48	1 40	24 22	1 3	12 47	2 5	9 14	0 58	3 41	2 0	17 58	0 17	21 41	1 21	7 26	16 44	10 4	10 5	6 46	13 28	1 36		
S 25	20 35	16 11	2 13	16 19	1 54	24 27	1 5	12 39	2 7	9 12	0 58	3 40	2 0	17 59	0 17	21 41	1 21	7 26	16 44	10 5	10 6	6 44	13 27	1 36		
M26	20 47	13 16	1 4	15 56	2 6	24 31	1 7	12 31	2 8	9 11	0 58	3 38	2 0	18 0	0 17	21 41	1 21	7 26	16 44	10 6	10 7	6 42	13 27	1 36		
T 27	20 58	9 35	0s10	15 37	2 16	24 35	1 9	12 23	2 10	9 9	0 58	3 37	2 0	18 1	0 17	21 42	1 21	7 25	16 45	10 6	10 8	6 40	13 26	1 36		
W28	21 9	5 19	1 23	15 24	2 24	24 38	1 11	12 15	2 11	9 7	0 59	3 35	2 1	18 2	0 17	21 42	1 21	7 25	16 45	10 6	10 9	6 38	13 25	1 36		
T 29	21 20	0 45	2 32	15 15	2 30	24 40	1 13	12 8	2 13	9 5	0 59	3 34	2 1	18 3	0 17	21 42	1 21	7 25	16 46	10 7	10 10	6 37	13 24	1 36		
F 30	21s30	3n53	3s32	15s11	2n34	24s41	1s15	12n0	2n14	9n 4	0n59	3n33	2n 1	18s 4	0n17	21s42	1n21	7n24	16n46	10n 8	10n11	6n35	13n23	1s36		

ASTRODIENST EPHEMERIS for the year 1979

geocentric

DECEMBER 1979

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 37 2	8♌11'03	2♌25	19♍51	2♌59	4♎44	9♏12	25♏48	22♏20	19♏46	20♏55	3♏37	3♏32	15♏59	10♏16	S 1
S 2	4 40 58	9°11'51	16°34	20°10	4°14	5° 7	9°17	25°52	22°24	19°48	20°57	3♏27	3°29	16° 6	10♏14	S 2
M 3	4 44 55	10°12'40	0♏34	20°39	5°28	5°31	9°22	25°56	22°27	19°50	20°58	3°14	3°26	16°13	10°11	M 3
T 4	4 48 51	11°13'30	14°19	21°15	6°43	5°54	9°26	25°59	22°31	19°53	21° 0	3° 1	3°23	16°19	10° 9	T 4
W 5	4 52 48	12°14'21	27°17	21°58	7°57	6°17	9°30	26° 3	22°34	19°55	21° 2	2°49	3°20	16°26	10° 6	W 5
T 6	4 56 44	13°15'13	10♐54	22°48	9°12	6°39	9°34	26° 6	22°38	19°57	21° 4	2°38	3°16	16°33	10° 4	T 6
F 7	5 0 41	14°16'06	23°40	23°43	10°26	7° 2	9°38	26°10	22°42	19°59	21° 5	2°30	3°13	16°39	10° 2	F 7
S 8	5 4 37	15°17'01	6♑ 6	24°42	11°41	7°23	9°41	26°13	22°45	20° 2	21° 7	2°25	3°10	16°46	9°59	S 8
S 9	5 8 34	16°17'57	18°16	25°46	12°55	7°45	9°45	26°16	22°49	20° 4	21° 8	2°22	3° 7	16°53	9°57	S 9
M10	5 12 31	17°18'53	0♑14	26°54	14°10	8° 6	9°48	26°19	22°52	20° 6	21°10	2°D21	3° 4	16°59	9°55	M10
T 11	5 16 27	18°19'51	12° 3	28° 4	15°24	8°27	9°51	26°22	22°56	20° 8	21°11	2°21	3° 0	17° 6	9°53	T 11
W12	5 20 24	19°20'51	23°51	29°17	16°39	8°47	9°54	26°25	22°59	20°11	21°13	2°R21	2°57	17°13	9°50	W12
T 13	5 24 20	20°21'51	5♒42	0♒33	17°53	9° 7	9°57	26°27	23° 3	20°13	21°14	2°20	2°54	17°19	9°48	T 13
F 14	5 28 17	21°22'52	17°42	1°51	19° 8	9°26	9°59	26°30	23° 6	20°15	21°16	2°17	2°51	17°26	9°46	F 14
S 15	5 32 13	22°23'54	29°56	3°10	20°22	9°46	10° 2	26°33	23° 9	20°17	21°17	2°11	2°48	17°32	9°44	S 15
S 16	5 36 10	23°24'58	12♌27	4°31	21°37	10° 4	10° 4	26°35	23°13	20°20	21°19	2° 2	2°45	17°39	9°42	S 16
M17	5 40 6	24°26'02	25°18	5°54	22°51	10°23	10° 6	26°37	23°16	20°22	21°20	1°52	2°41	17°46	9°40	M17
T 18	5 44 3	25°27'07	8♌30	7°17	24° 5	10°40	10° 7	26°39	23°19	20°24	21°21	1°40	2°38	17°52	9°39	T 18
W19	5 48 0	26°28'13	22° 2	8°42	25°20	10°58	10° 9	26°42	23°23	20°26	21°23	1°28	2°35	17°59	9°37	W19
T 20	5 51 56	27°29'20	5♌56	10° 7	26°34	11°15	10°10	26°44	23°26	20°29	21°24	1°18	2°32	18° 6	9°35	T 20
F 21	5 55 53	28°30'27	19°51	11°34	27°48	11°31	10°12	26°45	23°29	20°31	21°25	1° 9	2°29	18°12	9°33	F 21
S 22	5 59 49	29°31'34	4♎ 1	13° 1	29° 3	11°47	10°13	26°47	23°32	20°33	21°26	1° 3	2°26	18°19	9°32	S 22
S 23	6 3 46	0♌32'42	18°14	14°28	0♎17	12° 3	10°13	26°49	23°36	20°35	21°27	1° 1	2°22	18°26	9°30	S 23
M24	6 7 42	1°33'50	2♌28	15°56	1°31	12°18	10°14	26°51	23°39	20°38	21°29	1°D 0	2°19	18°32	9°28	M24
T 25	6 11 39	2°34'58	16°40	17°25	2°45	12°32	10°14	26°52	23°42	20°40	21°30	1° 0	2°16	18°39	9°27	T 25
W26	6 15 35	3°36'06	0♑47	18°54	3°59	12°46	10°15	26°53	23°45	20°42	21°31	1°R 1	2°13	18°46	9°25	W26
T 27	6 19 32	4°37'14	14°49	20°24	5°14	12°59	10°R15	26°55	23°48	20°44	21°32	1° 1	2°10	18°52	9°24	T 27
F 28	6 23 29	5°38'22	28°46	21°54	6°28	13°12	10°14	26°56	23°51	20°47	21°33	0°58	2° 6	18°59	9°23	F 28
S 29	6 27 25	6°39'30	12♌36	23°24	7°42	13°25	10°14	26°57	23°54	20°49	21°34	0°53	2° 3	19° 6	9°21	S 29
S 30	6 31 22	7°40'38	26°18	24°55	8°56	13°36	10°14	26°58	23°57	20°51	21°35	0°46	2° 0	19°12	9°20	S 30
M31	6 35 18	8♌41'46	9♏50	26♌26	10♎10	13♏48	10♏13	26♏59	24♏ 0	20♌53	21♌36	0♏37	1♏57	19♏19	9♌19	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s40	8n17	4s18	15s12	2n36	24s42	1s17	11n53	2n15	9n 2	0n59	3n31	2n 1	18s 5	0n17	21s42	1n21	7n24	16n46	10n11	10n13	6n33	13n22	1s36	13s22
S 2	21 50	12 11	4 48	15 16	2 37	24 42	1 19	11 45	2 17	9 1	1 0	3 30	2 2	18 6	0 17	21 43	1 21	7 24	16 47	10 15	10 14	6 31	13 21	1 37	13s22
M 3	21 59	15 22	5 0	15 24	2 36	24 41	1 21	11 38	2 18	8 59	1 0	3 29	2 2	18 7	0 17	21 43	1 21	7 24	16 47	10 19	10 15	6 30	13 21	1 37	13s22
T 4	22 7	17 38	4 55	15 35	2 34	24 39	1 23	11 31	2 20	8 58	1 0	3 28	2 2	18 8	0 17	21 43	1 21	7 23	16 48	10 24	10 16	6 28	13 20	1 37	13s22
W 5	22 16	18 52	4 33	15 49	2 31	24 37	1 25	11 24	2 21	8 56	1 0	3 26	2 2	18 9	0 17	21 43	1 20	7 23	16 48	10 28	10 17	6 26	13 19	1 37	13s22
T 6	22 23	19 3	3 57	16 5	2 28	24 33	1 26	11 17	2 23	8 55	1 1	3 25	2 3	18 10	0 17	21 43	1 20	7 23	16 49	10 32	10 18	6 24	13 18	1 37	13s22
F 7	22 31	18 15	3 10	16 23	2 23	24 30	1 28	11 10	2 25	8 54	1 1	3 24	2 3	18 10	0 17	21 43	1 20	7 23	16 49	10 35	10 19	6 22	13 18	1 37	13s22
S 8	22 38	16 34	2 15	16 43	2 18	24 25	1 30	11 3	2 26	8 53	1 1	3 23	2 3	18 11	0 17	21 44	1 20	7 23	16 50	10 37	10 21	6 21	13 17	1 37	13s22
S 9	22 44	14 11	1 14	17 3	2 13	24 19	1 31	10 57	2 28	8 52	1 1	3 22	2 3	18 12	0 17	21 44	1 20	7 23	16 50	10 38	10 22	6 19	13 16	1 37	13s22
M10	22 50	11 13	0 11	17 25	2 6	24 13	1 33	10 50	2 29	8 51	1 2	3 21	2 4	18 13	0 17	21 44	1 20	7 22	16 50	10 38	10 23	6 17	13 15	1 37	13s22
T 11	22 56	7 50	0n51	17 47	2 0	24 6	1 34	10 44	2 31	8 50	1 2	3 20	2 4	18 14	0 17	21 44	1 20	7 22	16 51	10 38	10 24	6 15	13 15	1 37	13s22
W12	23 1	4 9	1 52	18 9	1 53	23 59	1 35	10 38	2 32	8 49	1 2	3 20	2 4	18 15	0 17	21 44	1 20	7 22	16 51	10 38	10 25	6 13	13 14	1 37	13s22
T 13	23 5	0 18	2 48	18 32	1 46	23 51	1 37	10 32	2 34	8 48	1 3	3 19	2 4	18 16	0 17	21 45	1 20	7 22	16 52	10 39	10 26	6 12	13 13	1 37	13s22
F 14	23 10	3s36	3 37	18 55	1 39	23 42	1 38	10 26	2 36	8 48	1 3	3 18	2 5	18 17	0 17	21 45	1 20	7 22	16 52	10 40	10 28	6 10	13 13	1 37	13s22
S 15	23 13	7 26	4 17	19 18	1 31	23 32	1 39	10 20	2 37	8 47	1 3	3 17	2 5	18 17	0 17	21 45	1 20	7 22	16 53	10 42	10 29	6 8	13 12	1 37	13s22
S 16	23 17	11 2	4 46	19 40	1 24	23 21	1 40	10 15	2 39	8 46	1 3	3 16	2 5	18 18	0 17	21 45	1 20	7 22	16 53	10 45	10 30	6 6	13 11	1 37	13s22
M17	23 19	14 13	5 1	20 2	1 16	23 10	1 41	10 9	2 41	8 46	1 4	3 16	2 5	18 19	0 17	21 45	1 20	7 22	16 54	10 49	10 31	6 4	13 11	1 37	13s22
T 18	23 22	16 46	5 1	20 24	1 8	22 58	1 42	10 4	2 42	8 45	1 4	3 15	2 6	18 20	0 17	21 45	1 20	7 22	16 54	10 53	10 32	6 2	13 10	1 37	13s22
W19	23 24	18 29	4 44	20 45	1 1	22 46	1 43	9 59	2 44	8 45	1 4	3 15	2 6	18 21	0 17	21 46	1 20	7 22	16 55	10 57	10 33	6 1	13 10	1 37	13s22
T 20	23 25	19 9	4 10	21 6	0 53	22 33	1 44	9 54	2 46	8 45	1 4	3 14	2 6	18 22	0 17	21 46	1 20	7 22	16 55	11 1	10 34	5 59	13 9	1 37	13s22
F 21	23 26	18 39	3 21	21 25	0 45	22 19	1 45	9 50	2 48	8 45	1 5	3 13	2 7	18 22	0 17	21 46	1 20	7 22	16 56	11 4	10 35	5 57	13 8	1 37	13s22
S 22	23 26	17 0	2 19	21 44	0 38	22 4	1 45	9 45	2 49	8 45	1 5	3 13	2 7	18 23	0 17	21 46	1 20	7 22	16 56	11 6	10 37	5 55	13 8	1 37	13s22
S 23	23 26	14 17	1 8	22 2	0 30	21 49	1 46	9 41	2 51	8 44	1 5	3 13	2 7	18 24	0 17	21 46	1 20	7 22	16 57	11 7	10 38	5 53	13 7	1 37	13s22
M24	23 26	10 43	0s 8	22 20	0 22	21 33	1 47	9 37	2 53	8 44	1 5	3 12	2 7	18 25	0 17	21 46	1 20	7 22	16 58	11 7	10 39	5 52	13 7	1 37	13s22
T 25	23 25	6 32	1 23	22 36	0 15	21 17	1 47	9 33	2 55	8 45	1 6	3 12	2 8	18 26	0 17	21 46	1 20	7 22	16 58	11 7	10 40	5 50	13 6	1 37	13s22
W26	23 23	2 1	2 33	22 51	0 7	21 0	1 47	9 29	2 57	8 45	1 6	3 12	2 8	18 26	0 17	21 47	1 20	7 23	16 59	11 7	10 41	5 48	13 6	1 37	13s22
T 27	23 22	2n34	3 33	23 5	0 0	20 42	1 48	9 26	2 58	8 45	1 6	3 11	2 8	18 27	0 17	21 47	1 20	7 23	16 59	11 7	10 42	5 46	13 6	1 37	13s22
F 28	23 19	6 59	4 20	23 19	0s 7	20 24	1 48	9 22	3 0	8 45	1 7	3 11	2 9	18 28	0 17	21 47	1 20	7 23	17 0	11 8	10 43	5 44	13 5	1 37	13s22
S 29	23 16	11 0	4 51	23 31	0 14	20 5	1 48	9 19	3 2	8 46	1 7	3 11	2 9	18 29	0 17	21 47	1 20	7 23	17 0	11 10	10 45	5 42	13 5	1 37	13s22
S 30	23 13	14 22	5 5	23 42	0 21	19 46	1 48	9 17	3 4	8 46	1 7	3 11	2 9	18 29	0 17	21 47	1 20	7 23	17 1	11 12	10 46	5 41	13 4	1 37	13s22
M31	23s 9	16n56	5s 2	23s52	0s28	19s26	1s48	9n14	3n 6	8n47	1n 7	3n11	2n 9	18s30	0n17	21s47	1n20	7n23	17n 1	11n15	10n47	5n39	13n 4	1s37	13s22