



Astrodienst Ephemeris Tables for the year 1983

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 1983
geocentric

JANUARY 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 40 19	9♂59'26	1♂33	29♂30	24♂3	17♂0	1♂11	2♂54	6♂56	27♂15	29♂14	4♂R16	3♂51	21♂31	23♂R10	S 1
S 2	6 44 16	11° 0'34	16°35	0♂22	25°18	17°47	1°22	2°58	6°59	27°17	29°15	4♂15	3°48	21°38	23♂8	S 2
M 3	6 48 12	12° 1'43	1♂19	1° 6	26°33	18°34	1°34	3° 2	7° 2	27°19	29°16	4°14	3°45	21°45	23° 6	M 3
T 4	6 52 9	13° 2'51	15°40	1°42	27°48	19°21	1°45	3° 6	7° 6	27°21	29°17	4°14	3°42	21°51	23° 5	T 4
W 5	6 56 5	14° 4'00	29°35	2°10	29° 8	20° 8	1°57	3°10	7° 9	27°24	29°18	4°13	3°39	21°58	23° 3	W 5
T 6	7 0 2	15° 5'09	13♂3	2°28	0♂19	20°56	2° 8	3°14	7°12	27°26	29°19	4°D12	3°35	22° 5	23° 1	T 6
F 7	7 3 58	16° 6'18	26° 7	2°R34	1°34	21°43	2°20	3°18	7°15	27°28	29°20	4°13	3°32	22°11	23° 0	F 7
S 8	7 7 55	17° 7'28	8♂49	2°30	2°49	22°30	2°31	3°21	7°18	27°30	29°21	4°13	3°29	22°18	22°58	S 8
S 9	7 11 51	18° 8'37	21°14	2°14	4° 5	23°17	2°42	3°25	7°21	27°32	29°22	4°15	3°26	22°24	22°57	S 9
M10	7 15 48	19° 9'47	3♂25	1°46	5°20	24° 4	2°53	3°28	7°24	27°34	29°23	4°16	3°23	22°31	22°55	M10
T 11	7 19 45	20°10'57	15°26	1° 7	6°35	24°51	3° 4	3°32	7°27	27°37	29°24	4°17	3°20	22°38	22°54	T 11
W12	7 23 41	21°12'06	27°19	0°16	7°50	25°38	3°15	3°35	7°30	27°39	29°24	4°18	3°16	22°44	22°53	W12
T 13	7 27 38	22°13'15	9♂9	29♂16	9° 5	26°26	3°26	3°38	7°33	27°41	29°25	4°R18	3°13	22°51	22°51	T 13
F 14	7 31 34	23°14'24	20°56	28° 8	10°20	27°13	3°37	3°41	7°36	27°43	29°26	4°17	3°10	22°58	22°50	F 14
S 15	7 35 31	24°15'33	2♂44	26°54	11°35	28° 0	3°47	3°44	7°39	27°45	29°26	4°15	3° 7	23° 4	22°49	S 15
S 16	7 39 27	25°16'41	14°35	25°37	12°51	28°47	3°58	3°47	7°41	27°47	29°27	4°12	3° 4	23°11	22°48	S 16
M17	7 43 24	26°17'49	26°29	24°18	14° 6	29°34	4° 8	3°50	7°44	27°49	29°28	4° 9	3° 1	23°18	22°47	M17
T 18	7 47 20	27°18'55	8♂30	23° 0	15°21	0♂21	4°19	3°52	7°47	27°51	29°28	4° 5	2°57	23°24	22°46	T 18
W19	7 51 17	28°20'01	20°41	21°46	16°36	1° 8	4°29	3°55	7°50	27°53	29°29	4° 1	2°54	23°31	22°45	W19
T 20	7 55 14	29°21'07	3♂3	20°38	17°51	1°55	4°39	3°57	7°52	27°55	29°29	3°57	2°51	23°38	22°44	T 20
F 21	7 59 10	0♂22'11	15°40	19°36	19° 6	2°43	4°49	4° 0	7°55	27°57	29°29	3°55	2°48	23°44	22°44	F 21
S 22	8 3 7	1°23'14	28°35	18°43	20°21	3°30	4°59	4° 2	7°57	27°59	29°30	3°D54	2°45	23°51	22°43	S 22
S 23	8 7 3	2°24'17	11♂52	17°58	21°36	4°17	5° 9	4° 4	8° 0	28° 1	29°30	3°54	2°41	23°58	22°42	S 23
M24	8 11 0	3°25'18	25°33	17°22	22°51	5° 4	5°19	4° 6	8° 3	28° 3	29°31	3°56	2°38	24° 4	22°42	M24
T 25	8 14 56	4°26'19	9♂39	16°56	24° 6	5°51	5°29	4° 8	8° 5	28° 5	29°31	3°57	2°35	24°11	22°41	T 25
W26	8 18 53	5°27'18	24°10	16°39	25°21	6°38	5°38	4°10	8° 7	28° 7	29°31	3°59	2°32	24°18	22°41	W26
T 27	8 22 49	6°28'17	9♂3	16°30	26°36	7°25	5°48	4°12	8°10	28° 9	29°31	3°R59	2°29	24°24	22°41	T 27
F 28	8 26 46	7°29'14	24°11	16°D29	27°51	8°12	5°57	4°14	8°12	28°11	29°31	3°57	2°26	24°31	22°40	F 28
S 29	8 30 43	8°30'11	9♂26	16°37	29° 5	8°59	6° 7	4°15	8°14	28°13	29°32	3°54	2°22	24°38	22°40	S 29
S 30	8 34 39	9°31'06	24°37	16°51	0♂20	9°46	6°16	4°17	8°17	28°14	29°32	3°50	2°19	24°44	22°40	S 30
M31	8 38 36	10♂32'01	9♂35	17♂12	1♂35	10♂33	6♂25	4♂18	8♂19	28♂16	29♂32	3♂54	2♂16	24♂51	22♂40	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	23s 4	22n11	2n26	21s15	1s 1	22s32	1s16	16s51	1s 9	19s35	0n49	10s14	2n24	21s22	0n 7	22s12
S 2	22 59	19 16	3 34	20 52	0 48	22 20	1 17	16 36	1 9	19 38	0 49	10 15	2 24	21 22	0 7	22 12
M 3	22 54	15 9	4 27	20 29	0 35	22 8	1 18	16 21	1 9	19 40	0 49	10 16	2 24	21 23	0 7	22 12
T 4	22 48	10 17	5 1	20 7	0 20	21 54	1 20	16 6	1 8	19 42	0 49	10 17	2 24	21 23	0 7	22 12
W 5	22 42	5 0	5 17	19 45	0 5	21 40	1 21	15 50	1 8	19 45	0 49	10 18	2 25	21 24	0 7	22 12
T 6	22 35	0s20	5 14	19 25	0n12	21 25	1 22	15 35	1 7	19 47	0 49	10 19	2 25	21 24	0 7	22 12
F 7	22 28	5 30	4 55	19 6	0 29	21 10	1 23	15 19	1 7	19 49	0 49	10 20	2 25	21 25	0 7	22 12
S 8	22 21	10 18	4 22	18 50	0 48	20 54	1 25	15 3	1 6	19 51	0 50	10 21	2 25	21 25	0 7	22 13
S 9	22 13	14 35	3 37	18 35	1 7	20 37	1 26	14 47	1 6	19 54	0 50	10 22	2 26	21 26	0 7	22 13
M10	22 4 18	10 2	2 43	18 23	1 26	20 20	1 27	14 31	1 5	19 56	0 50	10 23	2 26	21 26	0 7	22 13
T 11	21 55	20 57	1 43	18 13	1 45	20 2	1 28	14 15	1 5	19 58	0 50	10 24	2 26	21 27	0 7	22 13
W12	21 46	22 46	0 39	18 5	2 3	19 44	1 28	13 59	1 4	20 0	0 50	10 25	2 26	21 27	0 7	22 13
T 13	21 37	23 34	0s27	18 1	2 21	19 25	1 29	13 42	1 4	20 2	0 50	10 26	2 26	21 28	0 7	22 13
F 14	21 26	23 18	1 31	17 58	2 37	19 6	1 30	13 26	1 3	20 4	0 50	10 27	2 27	21 28	0 7	22 13
S 15	21 16	22 0	2 31	17 59	2 51	18 46	1 31	13 9	1 3	20 6	0 50	10 27	2 27	21 29	0 7	22 13
S 16	21 5	19 43	3 24	18 1	3 4	18 25	1 31	12 52	1 2	20 8	0 50	10 28	2 27	21 29	0 7	22 13
M17	20 54	16 36	4 9	18 5	3 14	18 4	1 32	12 35	1 1	20 10	0 50	10 29	2 27	21 30	0 7	22 13
T 18	20 42	12 46	4 44	18 10	3 21	17 42	1 32	12 18	1 1	20 12	0 50	10 30	2 28	21 30	0 7	22 13
W19	20 30	8 23	5 6	18 17	3 26	17 20	1 33	12 1	1 0	20 13	0 50	10 30	2 28	21 30	0 7	22 13
T 20	20 17	3 36	5 14	18 25	3 29	16 58	1 33	11 43	1 0	20 15	0 50	10 31	2 28	21 31	0 7	22 13
F 21	20 4	1n26	5 8	18 34	3 29	16 35	1 33	11 26	0 59	20 17	0 50	10 31	2 28	21 31	0 7	22 13
S 22	19 51	6 31	4 46	18 43	3 27	16 11	1 34	11 8	0 59	20 19	0 50	10 32	2 29	21 32	0 7	22 13
S 23	19 38	11 27	4 8	18 53	3 23	15 47	1 34	10 51	0 58	20 20	0 50	10 32	2 29	21 32	0 7	22 13
M24	19 24	15 59	3 15	19 3	3 18	15 23	1 34	10 33	0 58	20 22	0 50	10 33	2 29	21 33	0 7	22 13
T 25	19 9	19 46	2 10	19 13	3 11	14 58	1 34	10 15	0 57	20 24	0 50	10 33	2 29	21 33	0 7	22 13
W26	18 54	22 25	0 54	19 23	3 3	14 33	1 34	9 57	0 56	20 25	0 50	10 34	2 30	21 33	0 7	22 13
T 27	18 39	23 36	0n28	19 33	2 54	14 7	1 34	9 39	0 56	20 27	0 50	10 34	2 30	21 34	0 7	22 13
F 28	18 24	23 3	1 48	19 42	2 44	13 41	1 33	9 21	0 55	20 29	0 50	10 34	2 30	21 34	0 7	22 13
S 29	18 8	20 49	3 2	19 52	2 34	13 15	1 33	9 3	0 55	20 30	0 50	10 35	2 30	21 34	0 7	22 13
S 30	17 52	17 7	4 2	20 0	2 23	12 48	1 33	8 45	0 54	20 32	0 50	10 35	2 31	21 35	0 7	22 13
M31	17s36	12n22	4n44	20s 9	2n13	12s21	1s32	8s26	0s53	20s33	0n50	10s35	2n31	21s35	0n 7	22s13

Julian Day Number = 2445335.5, Delta T = 52.96 sec
Ecliptic obliquity = 23°26'28, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°30'10, Lahiri = 23°37'11

ASTRODIENST EPHEMERIS for the year 1983

geocentric

FEBRUARY 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 32	11°32'54	24°11	17°39	2°50	11°20	6°34	4°19	8°21	28°18	29°R32	3°R38	2°13	24°58	22°D40	T 1
W 2	8 46 29	12°33'47	8°19	18°11	4° 5	12° 7	6°42	4°20	8°23	28°20	29°A32	3°B33	2°10	25° 4	22°B40	W 2
T 3	8 50 25	13°34'39	21°58	18°49	5°19	12°54	6°51	4°21	8°25	28°22	29°32	3°29	2° 7	25°11	22°40	T 3
F 4	8 54 22	14°35'30	5°18	19°31	6°34	13°41	7° 0	4°22	8°27	28°23	29°32	3°27	2° 3	25°18	22°40	F 4
S 5	8 58 18	15°36'21	17°53	20°17	7°49	14°27	7° 8	4°23	8°29	28°25	29°32	3°D26	2° 0	25°24	22°41	S 5
S 6	9 2 15	16°37'10	0°16	21° 7	9° 3	15°14	7°16	4°24	8°31	28°27	29°31	3°27	1°57	25°31	22°41	S 6
M 7	9 6 12	17°37'59	12°23	22° 0	10°18	16° 1	7°25	4°25	8°33	28°28	29°31	3°29	1°54	25°38	22°41	M 7
T 8	9 10 8	18°38'47	24°18	22°57	11°32	16°48	7°33	4°25	8°35	28°30	29°31	3°30	1°51	25°44	22°42	T 8
W 9	9 14 5	19°39'33	6° 7	23°57	12°47	17°35	7°40	4°26	8°37	28°31	29°31	3°R31	1°47	25°51	22°42	W 9
T 10	9 18 1	20°40'19	17°53	24°59	14° 2	18°21	7°48	4°26	8°38	28°33	29°30	3°29	1°44	25°57	22°43	T 10
F 11	9 21 58	21°41'03	29°40	26° 4	15°16	19° 8	7°56	4°26	8°40	28°35	29°30	3°26	1°41	26° 4	22°43	F 11
S 12	9 25 54	22°41'46	11°31	27°11	16°31	19°55	8° 3	4°R26	8°42	28°36	29°30	3°20	1°38	26°11	22°44	S 12
S 13	9 29 51	23°42'28	23°28	28°20	17°45	20°42	8°11	4°26	8°43	28°38	29°29	3°12	1°35	26°17	22°45	S 13
M14	9 33 47	24°43'09	5°32	29°31	18°59	21°28	8°18	4°26	8°45	28°39	29°29	3° 2	1°32	26°24	22°46	M14
T 15	9 37 44	25°43'47	17°45	0°44	20°14	22°15	8°25	4°26	8°46	28°41	29°28	2°51	1°28	26°31	22°47	T 15
W16	9 41 41	26°44'25	0° 7	1°59	21°28	23° 1	8°32	4°26	8°48	28°42	29°28	2°41	1°25	26°37	22°48	W16
T 17	9 45 37	27°45'00	12°40	3°15	22°42	23°48	8°39	4°25	8°49	28°43	29°27	2°32	1°22	26°44	22°49	T 17
F 18	9 49 34	28°45'34	25°26	4°33	23°57	24°35	8°45	4°25	8°50	28°45	29°27	2°25	1°19	26°51	22°50	F 18
S 19	9 53 30	29°46'06	8°24	5°52	25°11	25°21	8°52	4°24	8°52	28°46	29°26	2°20	1°16	26°57	22°51	S 19
S 20	9 57 27	0°46'37	21°39	7°12	26°25	26° 7	8°58	4°23	8°53	28°47	29°26	2°18	1°13	27° 4	22°52	S 20
M21	10 1 23	1°47'05	5°12	8°34	27°39	26°54	9° 5	4°22	8°54	28°49	29°25	2°D18	1° 9	27°11	22°54	M21
T 22	10 5 20	2°47'32	19° 4	9°57	28°53	27°40	9°11	4°21	8°55	28°50	29°24	2°18	1° 6	27°17	22°55	T 22
W23	10 9 16	3°47'57	3°17	11°22	0° 7	28°27	9°16	4°20	8°56	28°51	29°23	2°R19	1° 3	27°24	22°56	W23
T 24	10 13 13	4°48'20	2°49	12°47	1°21	29°13	9°22	4°19	8°57	28°52	29°23	2°18	1° 0	27°31	22°58	T 24
F 25	10 17 10	5°48'41	17°37	14°14	2°35	29°59	9°28	4°18	8°58	28°53	29°22	2°14	0°57	27°37	22°59	F 25
S 26	10 21 6	6°49'00	17°36	15°42	3°49	0°46	9°33	4°17	8°59	28°55	29°21	2° 9	0°53	27°44	23° 1	S 26
S 27	10 25 3	7°49'17	2°37	17°11	5° 3	1°32	9°38	4°15	9° 0	28°56	29°20	2° 0	0°50	27°51	23° 3	S 27
M28	10 28 59	8°49'33	17°30	18°41	6°17	2°18	9°44	4°14	9° 1	28°57	29°19	1°50	0°47	27°57	23° 4	M28

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	17s19	7n 0	5n 7	20s16	2n 2	11s54	1s32	8s 8	0s53	20s35	0n51	10s35	2n31	21s36	0n 7	22s13
W 2	17 2	1 27	5 10	20 23	1 50	11 26	1 31	7 49	0 52	20 36	0 51	10 35	2 31	21 36	0 7	22 13
T 3	16 45	3s59	4 55	20 29	1 39	10 58	1 31	7 31	0 52	20 37	0 51	10 35	2 32	21 36	0 7	22 13
F 4	16 27	9 4	4 25	20 34	1 28	10 30	1 30	7 12	0 51	20 39	0 51	10 36	2 32	21 37	0 7	22 13
S 5	16 10	13 36	3 43	20 38	1 17	10 1	1 29	6 54	0 50	20 40	0 51	10 36	2 32	21 37	0 7	22 13
S 6	15 51	17 26	2 51	20 41	1 6	9 32	1 28	6 35	0 50	20 41	0 51	10 36	2 33	21 37	0 7	22 13
M 7	15 33	20 26	1 52	20 43	0 56	9 3	1 27	6 16	0 49	20 43	0 51	10 36	2 33	21 37	0 7	22 13
T 8	15 14	22 29	0 50	20 45	0 45	8 34	1 26	5 57	0 49	20 44	0 51	10 35	2 33	21 38	0 7	22 13
W 9	14 55	23 32	0s14	20 45	0 35	8 5	1 25	5 39	0 48	20 45	0 51	10 35	2 33	21 38	0 7	22 13
T 10	14 36	23 31	1 17	20 44	0 25	7 35	1 24	5 20	0 47	20 46	0 51	10 35	2 34	21 38	0 7	22 13
F 11	14 17	22 27	2 17	20 41	0 15	7 5	1 23	5 1	0 47	20 48	0 51	10 35	2 34	21 39	0 7	22 13
S 12	13 57	20 23	3 10	20 38	0 6	6 35	1 22	4 42	0 46	20 49	0 51	10 35	2 34	21 39	0 6	22 13
S 13	13 37	17 25	3 56	20 33	0s 4	6 5	1 20	4 23	0 45	20 50	0 51	10 35	2 34	21 39	0 6	22 13
M14	13 17	13 41	4 32	20 28	0 13	5 34	1 19	4 4	0 44	20 51	0 51	10 34	2 35	21 39	0 6	22 13
T 15	12 57	9 22	4 55	20 21	0 21	5 4	1 18	3 45	0 44	20 52	0 51	10 34	2 35	21 40	0 6	22 13
W16	12 36	4 37	5 5	20 12	0 30	4 33	1 16	3 26	0 43	20 53	0 51	10 34	2 35	21 40	0 6	22 13
T 17	12 15	0n23	5 1	20 3	0 38	4 2	1 14	3 7	0 43	20 54	0 52	10 33	2 35	21 40	0 6	22 13
F 18	11 54	5 28	4 42	19 52	0 46	3 31	1 13	2 48	0 42	20 55	0 52	10 33	2 36	21 40	0 6	22 13
S 19	11 33	10 24	4 8	19 40	0 53	3 0	1 11	2 29	0 42	20 56	0 52	10 32	2 36	21 40	0 6	22 13
S 20	11 12	14 58	3 20	19 27	1 1	2 29	1 9	2 10	0 41	20 57	0 52	10 32	2 36	21 41	0 6	22 13
M21	10 50	18 53	2 20	19 13	1 8	1 58	1 7	1 51	0 40	20 58	0 52	10 31	2 36	21 41	0 6	22 13
T 22	10 29	21 49	1 10	18 57	1 14	1 27	1 6	1 32	0 40	20 58	0 52	10 31	2 37	21 41	0 6	22 13
W23	10 7	23 29	0n 5	18 40	1 21	0 55	1 4	1 13	0 39	20 59	0 52	10 30	2 37	21 41	0 6	22 13
T 24	9 45	23 36	1 22	18 21	1 27	0 24	1 2	0 54	0 38	21 0	0 52	10 30	2 37	21 41	0 6	22 13
F 25	9 23	22 5	2 34	18 2	1 32	0n 7	0 59	0 35	0 38	21 1	0 52	10 29	2 37	21 41	0 6	22 13
S 26	9 1	19 0	3 37	17 41	1 37	0 39	0 57	0 16	0 37	21 2	0 52	10 28	2 38	21 42	0 6	22 13
S 27	8 38	14 39	4 24	17 19	1 42	1 10	0 55	0n 3	0 36	21 2	0 52	10 28	2 38	21 42	0 6	22 13
M28	8s16	9n26	4n53	16s55	1s47	1n41	0s53	0n22	0s36	21s 3	0n52	10s27	2n38	21s42	0n 6	22s13

Julian Day Number = 2445366.5, Delta T = 53.03 sec

Ecliptic obliquity = 23°26'29, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°30'14, Lahiri = 23°37'15

ASTRODIENST EPHEMERIS for the year 1983
geocentric

MARCH 1983

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 32 56	9♌49'47	2♊7	20♋12	7♍31	3♍4	9♌48	4°R12	9♌2	28♌58	29°R18	1°R39	0♌44	28♌4	23♌6	T 1
W 2	10 36 52	10°49'59	16°20	21°44	8°45	3°50	9°53	4♌10	9°2	28°59	29♌18	1♌29	0°41	28°11	23°8	W 2
T 3	10 40 49	11°50'09	0♌5	23°18	9°58	4°36	9°58	4°8	9°3	29°0	29°17	1°21	0°38	28°17	23°10	T 3
F 4	10 44 45	12°50'18	13°22	24°52	11°12	5°22	10°2	4°7	9°4	29°1	29°16	1°15	0°34	28°24	23°12	F 4
S 5	10 48 42	13°50'25	26°12	26°28	12°25	6°8	10°7	4°5	9°4	29°2	29°15	1°11	0°31	28°31	23°14	S 5
S 6	10 52 39	14°50'31	8♌39	28°4	13°39	6°54	10°11	4°2	9°5	29°3	29°13	1°10	0°28	28°37	23°16	S 6
M 7	10 56 35	15°50'36	20°48	29°42	14°52	7°40	10°15	4°0	9°5	29°3	29°12	1°D10	0°25	28°44	23°18	M 7
T 8	11 0 32	16°50'38	2♌44	1♌21	16°6	8°26	10°18	3°58	9°5	29°4	29°11	1°R10	0°22	28°51	23°20	T 8
W 9	11 4 28	17°50'39	14°32	3°1	17°19	9°12	10°22	3°56	9°6	29°5	29°10	1°9	0°19	28°57	23°22	W 9
T 10	11 8 25	18°50'39	26°19	4°42	18°33	9°58	10°25	3°53	9°6	29°6	29°9	1°6	0°15	29°4	23°25	T 10
F 11	11 12 21	19°50'37	8♌8	6°24	19°46	10°44	10°29	3°50	9°6	29°6	29°8	1°1	0°12	29°11	23°27	F 11
S 12	11 16 18	20°50'33	20°3	8°7	20°59	11°29	10°32	3°48	9°6	29°7	29°7	0°53	0°9	29°17	23°30	S 12
S 13	11 20 14	21°50'27	2♌8	9°52	22°12	12°15	10°34	3°45	9°7	29°8	29°5	0°42	0°6	29°24	23°32	S 13
M14	11 24 11	22°50'19	14°24	11°37	23°25	13°1	10°37	3°42	9°7	29°8	29°4	0°29	0°3	29°31	23°34	M14
T 15	11 28 8	23°50'09	26°51	13°24	24°38	13°46	10°40	3°39	9°R7	29°9	29°3	0°15	29♌59	29°37	23°37	T 15
W16	11 32 4	24°49'58	9♍31	15°12	25°51	14°32	10°42	3°36	9°7	29°10	29°2	0°1	29°56	29°44	23°40	W16
T 17	11 36 1	25°49'44	22°22	17°1	27°4	15°18	10°44	3°33	9°6	29°10	29°0	29♌49	29°53	29°51	23°42	T 17
F 18	11 39 57	26°49'28	5♌25	18°51	28°17	16°3	10°46	3°30	9°6	29°11	28°59	29°39	29°50	29°57	23°45	F 18
S 19	11 43 54	27°49'10	18°39	20°43	29°30	16°49	10°48	3°27	9°6	29°11	28°58	29°32	29°47	0♌4	23°48	S 19
S 20	11 47 50	28°48'50	2♌4	22°36	0♌43	17°34	10°49	3°24	9°6	29°11	28°56	29°28	29°44	0°11	23°51	S 20
M21	11 51 47	29°48'28	15°41	24°30	1°56	18°19	10°51	3°20	9°6	29°12	28°55	29°26	29°40	0°17	23°53	M21
T 22	11 55 43	0♍48'03	29°30	26°25	3°8	19°5	10°52	3°17	9°5	29°12	28°53	29°26	29°37	0°24	23°56	T 22
W23	11 59 40	1°47'36	13♌32	28°21	4°21	19°50	10°53	3°13	9°5	29°13	28°52	29°26	29°34	0°31	23°59	W23
T 24	12 3 36	2°47'07	27°47	0♍19	5°33	20°35	10°54	3°10	9°4	29°13	28°50	29°24	29°31	0°37	24°2	T 24
F 25	12 7 33	3°46'35	12♌13	2°17	6°46	21°20	10°55	3°6	9°4	29°13	28°49	29°21	29°28	0°44	24°5	F 25
S 26	12 11 30	4°46'01	26°47	4°17	7°58	22°5	10°55	3°2	9°3	29°13	28°47	29°14	29°24	0°51	24°8	S 26
S 27	12 15 26	5°45'25	11♌23	6°18	9°10	22°50	10°55	2°59	9°3	29°14	28°46	29°5	29°21	0°57	24°12	S 27
M28	12 19 23	6°44'47	25°55	8°19	10°22	23°35	10°R55	2°55	9°2	29°14	28°44	28°54	29°18	1°4	24°15	M28
T 29	12 23 19	7°44'06	10♌15	10°21	11°34	24°20	10°55	2°51	9°1	29°14	28°43	28°42	29°15	1°11	24°18	T 29
W30	12 27 16	8°43'23	24°17	12°24	12°46	25°5	10°55	2°47	9°0	29°14	28°41	28°30	29°12	1°17	24°21	W30
T 31	12 31 12	9♍42'39	7♌57	14♍27	13♌58	25♍50	10♌55	2♌43	9♌0	29♌14	28♌40	28♌21	29♌9	1♌24	24♌24	T 31

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	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
T 1	7s53	3n47	5n 3	16s30	1s51	2n13	0s50	0n41	0s35	21s 4	0n52	10s26	2n38	21s42	0n 6	22s13	1n14	5n 3	17n22	23n26	23n26	22s52	15n30	3s 9	
W 2	7 30	1s55	4 53	16 4	1 55	2 44	0 48	1 0	0 34	21 4	0 52	10 25	2 38	21 42	0 6	22 13	1 14	5 3	17 22	23 26	23 26	22 52	15 30	3 9	
T 3	7 7	7 21	4 26	15 37	1 58	3 15	0 46	1 19	0 34	21 5	0 53	10 25	2 39	21 42	0 6	22 13	1 14	5 4	17 23	23 26	23 26	22 51	15 31	3 9	
F 4	6 44	12 16	3 45	15 9	2 2	3 46	0 43	1 38	0 33	21 5	0 53	10 24	2 39	21 42	0 6	22 13	1 14	5 5	17 23	23 26	23 26	22 50	15 32	3 9	
S 5	6 21	16 29	2 55	14 39	2 4	4 17	0 41	1 57	0 32	21 6	0 53	10 23	2 39	21 42	0 6	22 13	1 14	5 6	17 24	23 26	23 26	22 50	15 32	3 9	
S 6	5 58	19 50	1 57	14 7	2 7	4 48	0 38	2 16	0 32	21 6	0 53	10 22	2 39	21 42	0 6	22 13	1 14	5 6	17 24	23 26	23 26	22 49	15 33	3 9	
M 7	5 35	22 13	0 55	13 35	2 9	5 19	0 35	2 34	0 31	21 7	0 53	10 21	2 40	21 43	0 6	22 12	1 14	5 7	17 24	23 26	23 26	22 49	15 33	3 9	
T 8	5 12	23 33	0s 8	13 1	2 10	5 50	0 33	2 53	0 30	21 7	0 53	10 20	2 40	21 43	0 6	22 12	1 14	5 8	17 25	23 26	23 26	22 48	15 34	3 8	
W 9	4 48	23 49	1 10	12 26	2 11	6 20	0 30	3 12	0 30	21 8	0 53	10 19	2 40	21 43	0 6	22 12	1 14	5 9	17 25	23 26	23 26	22 47	15 35	3 8	
T 10	4 25	23 0	2 9	11 50	2 12	6 51	0 27	3 30	0 29	21 8	0 53	10 18	2 40	21 43	0 6	22 12	1 14	5 9	17 26	23 26	23 26	22 47	15 35	3 8	
F 11	4 1	21 10	3 3	11 13	2 12	7 21	0 25	3 49	0 28	21 9	0 53	10 17	2 40	21 43	0 6	22 12	1 14	5 10	17 26	23 26	23 26	22 46	15 36	3 8	
S 12	3 38	18 24	3 48	10 34	2 12	7 51	0 22	4 7	0 28	21 9	0 53	10 16	2 41	21 43	0 6	22 12	1 14	5 11	17 26	23 26	23 26	22 45	15 37	3 8	
S 13	3 14	14 49	4 24	9 54	2 11	8 21	0 19	4 26	0 27	21 9	0 53	10 15	2 41	21 43	0 6	22 12	1 14	5 12	17 27	23 26	23 26	22 45	15 37	3 8	
M14	2 51	10 35	4 48	9 13	2 10	8 51	0 16	4 44	0 26	21 10	0 53	10 14	2 41	21 43	0 6	22 12	1 14	5 12	17 27	23 26	23 26	22 44	15 38	3 8	
T 15	2 27	5 50	4 59	8 30	2 9	9 21	0 13	5 3	0 25	21 10	0 54	10 13	2 41	21 43	0 6	22 12	1 14	5 13	17 27	23 26	23 27	22 43	15 39	3 8	
W16	2 3	0 46	4 56	7 47	2 6	9 50	0 10	5 21	0 25	21 10	0 54	10 11	2 41	21 43	0 6	22 12	1 14	5 14	17 28	23 27	23 26	22 43	15 40	3 8	
T 17	1 39	4n25	4 37	7 2	2 4	10 19	0 7	5 39	0 24	21 10	0 54	10 10	2 42	21 43	0 6	22 12	1 14	5 15	17 28	23 26	23 26	22 42	15 40	3 8	
F 18	1 16	9 29	4 4	6 16	2 1	10 48	0 4	5 57	0 23	21 11	0 54	10 9	2 42	21 43	0 6	22 12	1 14	5 15	17 28	23 26	23 26	22 41	15 41	3 8	
S 19	0 52	14 13	3 18	5 29	1 57	11 17	0 1	6 15	0 23	21 11	0 54	10 8	2 42	21 43	0 6	22 12	1 14	5 16	17 29	23 26	23 26	22 41	15 42	3 7	
S 20	0 28	18 18	2 19	4 40	1 53	11 45	0n 2	6 33	0 22	21 11	0 54	10 6	2 42	21 43	0 6	22 12	1 14	5 17	17 29	23 26	23 26	22 40	15 43	3 7	
M21	0 5	21 29	1 12	3 51	1 49	12 14	0 5	6 51	0 21	21 11	0 54	10 5	2 42	21 43	0 6	22 12	1 14	5 18	17 29	23 26	23 26	22 39	15 43	3 7	
T 22	0n19	23 27	0n 0	3 1	1 44	12 41	0 8	7 9	0 21	21 11	0 54	10 4	2 42	21 43	0 6	22 12	1 14	5 18	17 30	23 26	23 26	22 39	15 44	3 7	
W23	0 43	23 59	1 14	2 9	1 38	13 9	0 12	7 27	0 20	21 11	0 54	10 2	2 43	21 43	0 6	22 12	1 14	5 19	17 30	23 26	23 26	22 38	15 45	3 7	
T 24	1 6	22 57	2 24	1 17	1 32	13 36	0 15	7 44	0 19	21 11	0 54	10 1	2 43	21 42	0 6	22 12	1 14	5 20	17 30	23 26	23 26	22 37	15 46	3 7	
F 25	1 30	20 25	3 25	0 23	1 25	14 3	0 18	8 2	0 19	21 11	0 54	10 0	2 43	21 42	0 6	22 12	1 14	5 21	17 30	23 26	23 26	22 36	15 46	3 7	
S 26	1 54	16 34	4 14	0n31	1 18	14 30	0 21	8 20	0 18	21 11	0 54	9 58	2 43	21 42	0 6	22 12	1 14	5 21	17 31	23 26	23 26	22 36	15 47	3 7	
S 27	2 17	11 43	4 46	1 26	1 10	14 56	0 24	8 37	0 17	21 11	0 54	9 57	2 43	21 42	0 6	22 12	1 14	5 22	17 31	23 26	23 26	22 35	15 48	3 7	
M28	2 41	6 13	5 0	2 21	1 2	15 22	0 28	8 54	0 17	21 11	0 55	9 56	2 43	21 42	0 6	22 12	1 15	5 23	17 31	23 26	23 26	22 34	15 49	3 7	
T 29	3 4	0 27	4 55	3 17	0 53	15 48	0 31	9 11	0 16	21 11	0 55	9 54	2 43	21 42	0 6	22 12	1 15	5 23	17 31	23 26	23 26	22 33	15 50	3 7	
W30	3 28	5s13	4 31	4 13	0 44	16 13	0 34	9 28	0 15	21 11	0 55	9 53	2 43	21 42	0 6	22 12	1 15	5 24	17 31	23 26	23 26	22 32	15 51	3 7	
T 31	3n51	10s30	3n52	5n10	0s34	16n38	0n37	9n45	0s15	21s11	0n55	9s51	2n44	21s42	0n 6	22s12	1n15	5n25	17n32	23n26	23n26	22s32	15n51	3s 7	

ASTRODIENST EPHEMERIS for the year 1983

geocentric

APRIL 1983

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 35 9	10°41'52	21°13'13	16°30'30	15°10'10	26°35'35	10°R54	2°R39	8°R59	29°R14	28°R38	28°R13	29°II 5	1°31'31	24°28'28	F 1
S 2	12 39 5	11°41'04	4°47'4	18°33'33	16°22'22	27°20'20	10°53'53	2°13'13	8°58'58	29°14'14	28°37'37	28°II 9	29° 2	1°37'37	24°31'31	S 2
S 3	12 43 2	12°40'14	16°33'33	20°36'36	17°34'34	28° 5'5	10°52'52	2°31'31	8°57'57	29°14'14	28°35'35	28° 6'6	28°59'59	1°44'44	24°35'35	S 3
M 4	12 46 59	13°39'23	28°45'45	22°38'38	18°45'45	28°49'49	10°51'51	2°27'27	8°56'56	29°14'14	28°33'33	28°D 6	28°56'56	1°51'51	24°38'38	M 4
T 5	12 50 55	14°38'29	10°33'33	24°39'39	19°57'57	29°34'34	10°49'49	2°22'22	8°55'55	29°14'14	28°32'32	28°R 6	28°53'53	1°57'57	24°42'42	T 5
W 6	12 54 52	15°37'34	22°34'34	26°39'39	21° 8'8	0°18'18	10°48'48	2°18'18	8°54'54	29°14'14	28°30'30	28° 6'6	28°50'50	2° 4'4	24°45'45	W 6
T 7	12 58 48	16°36'37	4°23'23	28°37'37	22°20'20	1° 3'3	10°46'46	2°14'14	8°52'52	29°13'13	28°28'28	28° 4'4	28°46'46	2°11'11	24°49'49	T 7
F 8	13 2 45	17°35'38	16°15'15	0°33'33	23°31'31	1°48'48	10°44'44	2°10'10	8°51'51	29°13'13	28°27'27	28° 1'1	28°43'43	2°17'17	24°52'52	F 8
S 9	13 6 41	18°34'37	28°14'14	2°27'27	24°42'42	2°32'32	10°42'42	2° 5'5	8°50'50	29°13'13	28°25'25	27°54'54	28°40'40	2°24'24	24°56'56	S 9
S 10	13 10 38	19°33'34	10°25'25	4°18'18	25°53'53	3°16'16	10°40'40	2° 1'1	8°49'49	29°13'13	28°23'23	27°46'46	28°37'37	2°31'31	24°59'59	S 10
M11	13 14 34	20°32'30	22°50'50	6° 6'6	27° 4'4	4° 1'1	10°37'37	1°56'56	8°47'47	29°12'12	28°22'22	27°35'35	28°34'34	2°37'37	25° 3'3	M11
T 12	13 18 31	21°31'24	5°31'31	7°51'51	28°15'15	4°45'45	10°34'34	1°52'52	8°46'46	29°12'12	28°20'20	27°24'24	28°30'30	2°44'44	25° 7'7	T 12
W13	13 22 28	22°30'15	18°28'28	9°31'31	29°26'26	5°29'29	10°32'32	1°47'47	8°45'45	29°12'12	28°18'18	27°12'12	28°27'27	2°51'51	25°11'11	W13
T 14	13 26 24	23°29'05	1°40'40	11° 8'8	0°13'13	6°14'14	10°29'29	1°43'43	8°43'43	29°11'11	28°17'17	27° 2'2	28°24'24	2°57'57	25°14'14	T 14
F 15	13 30 21	24°27'53	15° 6'6	12°40'40	1°48'48	6°58'58	10°25'25	1°38'38	8°42'42	29°11'11	28°15'15	26°53'53	28°21'21	3° 4'4	25°18'18	F 15
S 16	13 34 17	25°26'39	28°43'43	14° 8'8	2°58'58	7°42'42	10°22'22	1°34'34	8°40'40	29°10'10	28°13'13	26°47'47	28°18'18	3°11'11	25°22'22	S 16
S 17	13 38 14	26°25'22	12°11'11	15°31'31	4° 9'9	8°26'26	10°18'18	1°29'29	8°38'38	29°10'10	28°12'12	26°44'44	28°15'15	3°17'17	25°26'26	S 17
M18	13 42 10	27°24'04	26°23'23	16°49'49	5°19'19	9°10'10	10°15'15	1°25'25	8°37'37	29° 9'9	28°10'10	26°D43	28°11'11	3°24'24	25°30'30	M18
T 19	13 46 7	28°22'43	10°22'22	18° 2'2	6°29'29	9°54'54	10°11'11	1°20'20	8°35'35	29° 9'9	28° 8'8	26°44'44	28° 8'8	3°31'31	25°34'34	T 19
W20	13 50 3	29°21'11	24°27'27	19°10'10	7°40'40	10°38'38	10° 7'7	1°16'16	8°33'33	29° 8'8	28° 7'7	26°R45	28° 5'5	3°37'37	25°38'38	W20
T 21	13 54 0	0°19'55	8°13'33	20°13'13	8°50'50	11°22'22	10° 2'2	1°11'11	8°32'32	29° 8'8	28° 5'5	26°44'44	28° 2'2	3°44'44	25°42'42	T 21
F 22	13 57 57	1°18'28	22°47'47	21°10'10	10° 0'0	12° 5'5	9°58'58	1° 6'6	8°30'30	29° 7'7	28° 3'3	26°42'42	27°59'59	3°51'51	25°46'46	F 22
S 23	14 1 53	2°16'58	6°19'59	22° 2'2	11° 9'9	12°49'49	9°54'54	1° 2'2	8°28'28	29° 6'6	28° 2'2	26°38'38	27°56'56	3°57'57	25°50'50	S 23
S 24	14 5 50	3°15'26	21° 9'9	22°48'48	12°19'19	13°33'33	9°49'49	0°57'57	8°26'26	29° 6'6	28° 0'0	26°32'32	27°52'52	4° 4'4	25°54'54	S 24
M25	14 9 46	4°13'52	5°13'52	23°28'28	13°29'29	14°16'16	9°44'44	0°53'53	8°24'24	29° 5'5	27°58'58	26°24'24	27°49'49	4°11'11	25°58'58	M25
T 26	14 13 43	5°12'16	19° 7'7	24° 3'3	14°38'38	15° 0'0	9°39'39	0°48'48	8°22'22	29° 4'4	27°56'56	26°16'16	27°46'46	4°17'17	26° 2'2	T 26
W27	14 17 39	6°10'39	2°14'47	24°32'32	15°47'47	15°44'44	9°34'34	0°44'44	8°21'21	29° 3'3	27°55'55	26° 7'7	27°43'43	4°24'24	26° 6'6	W27
T 28	14 21 36	7° 8'59	16° 9'9	24°56'56	16°57'57	16°27'27	9°29'29	0°39'39	8°19'19	29° 2'2	27°53'53	26° 0'0	27°40'40	4°31'31	26°10'10	T 28
F 29	14 25 32	8° 7'17	29°13'13	25°13'13	18° 6'6	17°11'11	9°23'23	0°35'35	8°17'17	29° 2'2	27°51'51	25°55'55	27°36'36	4°37'37	26°14'14	F 29
S 30	14 29 29	9° 5'34	11°17'57	25°18'58	19°11'11	17°15'15	17°15'15	0°13'13	8°15'15	29°1'1	27°45'45	25°II52	27°II33	4°44'44	26°18'18	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	decl	lat	decl	lat
F 1	4n14	15s 8	3n 2	6n 7	0s24	17n 2	0n41	10n 2	0s14	21s11	0n55	9s50	2n44	21s42	0n 6	22s12	1n15	5n26	17n32	23n26	23n26	22s31	15n52	3s 7					
S 2	4 37	18 56	2 4	7 4	0 14	17 26	0 44	10 19	0 13	21 10	0 55	9 48	2 44	21 42	0 6	22 12	1 15	5 26	17 32	23 26	23 26	22 30	15 53	3 7					
S 3	5 0	21 45	1 1	8 0	0 3	17 49	0 47	10 36	0 13	21 10	0 55	9 47	2 44	21 41	0 6	22 12	1 15	5 27	17 32	23 26	23 26	22 30	15 54	3 6					
M 4	5 23	23 30	0s 3	8 56	0n 8	18 13	0 50	10 52	0 12	21 10	0 55	9 45	2 44	21 41	0 6	22 12	1 15	5 28	17 32	23 26	23 26	22 29	15 55	3 6					
T 5	5 46	24 7	1 7	9 51	0 19	18 35	0 53	11 9	0 11	21 10	0 55	9 44	2 44	21 41	0 6	22 12	1 15	5 28	17 33	23 26	23 26	22 28	15 56	3 6					
W 6	6 9	23 38	2 6	10 45	0 31	18 57	0 57	11 25	0 11	21 9	0 55	9 42	2 44	21 41	0 6	22 12	1 15	5 29	17 33	23 26	23 26	22 27	15 57	3 6					
T 7	6 32	22 5	3 0	11 39	0 42	19 19	1 0	11 41	0 10	21 9	0 55	9 41	2 44	21 41	0 6	22 12	1 15	5 30	17 33	23 26	23 26	22 26	15 58	3 6					
F 8	6 54	19 34	3 47	12 30	0 54	19 40	1 3	11 57	0 9	21 9	0 55	9 39	2 44	21 41	0 6	22 11	1 15	5 30	17 33	23 26	23 26	22 26	15 58	3 6					
S 9	7 17	16 12	4 23	13 21	1 5	20 1	1 6	12 13	0 9	21 8	0 55	9 38	2 44	21 40	0 6	22 11	1 15	5 31	17 33	23 26	23 26	22 25	15 59	3 6					
S 10	7 39	12 7	4 49	14 9	1 16	20 21	1 9	12 29	0 8	21 8	0 55	9 36	2 44	21 40	0 6	22 11	1 15	5 32	17 33	23 25	23 26	22 24	16 0	3 6					
M 11	8 1	7 27	5 1	14 56	1 27	20 41	1 13	12 45	0 7	21 8	0 55	9 34	2 45	21 40	0 6	22 11	1 15	5 32	17 33	23 25	23 26	22 23	16 1	3 6					
T 12	8 24	2 23	5 0	15 40	1 38	21 0	1 16	13 0	0 7	21 7	0 55	9 33	2 45	21 40	0 6	22 11	1 15	5 33	17 33	23 25	23 26	22 22	16 2	3 6					
W 13	8 45	2n53	4 42	16 22	1 48	21 19	1 19	13 16	0 6	21 7	0 55	9 31	2 45	21 40	0 6	22 11	1 15	5 34	17 33	23 25	23 26	22 21	16 3	3 6					
T 14	9 7	8 9	4 10	17 2	1 58	21 37	1 22	13 31	0 5	21 6	0 55	9 30	2 45	21 39	0 6	22 11	1 15	5 34	17 33	23 24	23 26	22 21	16 4	3 6					
F 15	9 29	13 8	3 23	17 39	2 7	21 55	1 25	13 46	0 5	21 6	0 56	9 28	2 45	21 39	0 6	22 11	1 15	5 35	17 33	23 24	23 26	22 20	16 5	3 6					
S 16	9 50	17 32	2 24	18 14	2 15	22 12	1 28	14 1	0 4	21 5	0 56	9 27	2 45	21 39	0 6	22 11	1 15	5 35	17 33	23 24	23 26	22 19	16 6	3 6					
S 17	10 12	21 3	1 15	18 46	2 22	22 28	1 31	14 16	0 3	21 5	0 56	9 25	2 45	21 39	0 6	22 11	1 15	5 36	17 33	23 24	23 26	22 18	16 7	3 6					
M 18	10 33	23 22	0 2	19 15	2 29	22 44	1 34	14 31	0 3	21 4	0 56	9 23	2 45	21 38	0 6	22 11	1 15	5 37	17 33	23 24	23 26	22 17	16 8	3 6					
T 19	10 54	24 14	1n12	19 41	2 35	22 59	1 37	14 45	0 2	21 4	0 56	9 22	2 45	21 38	0 6	22 11	1 15	5 37	17 33	23 24	23 26	22 16	16 8	3 6					
W 20	11 15	23 34	2 23	20 5	2 40	23 14	1 40	15 0	0 1	21 3	0 56	9 20	2 45	21 38	0 6	22 11	1 15	5 38	17 33	23 24	23 26	22 15	16 9	3 6					
T 21	11 35	21 24	3 25	20 26	2 44	23 28	1 43	15 14	0 1	21 2	0 56	9 19	2 45	21 38	0 6	22 11	1 15	5 38	17 33	23 24	23 26	22 15	16 10	3 6					
F 22	11 56	17 56	4 14	20 45	2 48	23 41	1 45	15 28	0n 0	21 2	0 56	9 17	2 45	21 37	0 6	22 11	1 15	5 39	17 33	23 24	23 26	22 14	16 11	3 6					
S 23	12 16	13 24	4 48	21 0	2 50	23 54	1 48	15 42	0 1	21 1	0 56	9 16	2 45	21 37	0 6	22 11	1 15	5 39	17 33	23 24	23 26	22 13	16 12	3 6					
S 24	12 36	8 10	5 5	21 13	2 51	24 6	1 51	15 56	0 1	21 0	0 56	9 14	2 45	21 37	0 6	22 11	1 15	5 40	17 33	23 24	23 25	22 12	16 13	3 6					
M 25	12 56	2 33	5 5	21 24	2 50	24 18	1 53	16 9	0 2	21 0	0 56	9 12	2 45	21 36	0 6	22 11	1 15	5 40	17 33	23 24	23 25	22 11	16 14	3 6					
T 26	13 15	3s 8	4 42	21 31	2 49	24 29	1 56	16 23	0 3	20 59	0 56	9 11	2 45	21 36	0 6	22 11	1 15	5 41	17 33	23 23	23 25	22 10	16 15	3 6					
W 27	13 35	8 35	4 6	21 36	2 47	24 39	1 59	16 36	0 3	20 58	0 56	9 9	2 45	21 36	0 6	22 11	1 15	5 41	17 33	23 23	23 25	22 9	16 16	3 6					
T 28	13 54	13 31	3 17	21 38	2 43	24 49	2 1	16 49	0 4	20 57	0 56	9 8	2 45	21 36	0 6	22 11	1 15	5 42	17 33	23 23	23 25	22 8	16 17	3 6					
F 29	14 13	17 44	2 19	21 37	2 48	24 57	2 3	17 2	0 5	20 56	0 56	9 6	2 45	21 35	0 6	22 11	1 16	5 42	17 33	23 23	23 25	22 7	16 18	3 6					
S 30	14n32	21s 0	1n14	21n34	2n32	25n 6	2n 6	17n15	0n 5	20s56	0n56	9s 5	2n45	21s35	0n 6	22s11	1n16	5n43	17n33	23n23	23n25	22s 6	16n19	3s 6					

ASTRODIENST EPHEMERIS for the year 1983

geocentric

MAY 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 33 26	10♈ 3'50	24♈23	25♈32	20♈24	18♈37	9°R12	0°R26	8°R12	29°R 0	27°R48	25°D51	27♈30	4♈51	26♈23	S 1
M 2	14 37 22	11° 2'03	6♈34	25°R33	21°32	19°21	9♈ 6	0♈21	8♈10	28♈59	27♈47	25♈52	27°27	4°57	26°27	M 2
T 3	14 41 19	12° 0'16	18°33	25°29	22°41	20° 4	9° 0	0°17	8° 8	28°58	27°45	25°53	27°24	5° 4	26°31	T 3
W 4	14 45 15	12°58'26	0♈25	25°19	23°49	20°47	8°54	0°12	8° 6	28°57	27°43	25°54	27°21	5°11	26°35	W 4
T 5	14 49 12	13°56'35	12°15	25° 5	24°58	21°30	8°48	0° 8	8° 4	28°56	27°42	25°R55	27°17	5°17	26°39	T 5
F 6	14 53 8	14°54'43	24° 9	24°47	26° 6	22°13	8°42	0° 4	8° 2	28°55	27°40	25°55	27°14	5°24	26°44	F 6
S 7	14 57 5	15°52'49	6♈10	24°24	27°14	22°56	8°35	29♈59	8° 0	28°54	27°38	25°53	27°11	5°31	26°48	S 7
S 8	15 1 1	16°50'54	18°24	23°58	28°21	23°39	8°29	29°55	7°57	28°53	27°37	25°49	27° 8	5°37	26°52	S 8
M 9	15 4 58	17°48'58	0♈55	23°29	29°29	24°22	8°22	29°51	7°55	28°52	27°35	25°44	27° 5	5°44	26°56	M 9
T 10	15 8 55	18°47'00	13°44	22°57	0♈37	25° 5	8°15	29°46	7°53	28°51	27°34	25°38	27° 1	5°51	27° 1	T 10
W11	15 12 51	19°45'00	26°53	22°23	1°44	25°48	8° 8	29°42	7°50	28°49	27°32	25°32	26°58	5°57	27° 5	W11
T 12	15 16 48	20°42'59	10♈22	21°48	2°51	26°31	8° 2	29°38	7°48	28°48	27°31	25°26	26°55	6° 4	27° 9	T 12
F 13	15 20 44	21°40'57	24° 9	21°12	3°58	27°14	7°55	29°34	7°46	28°47	27°29	25°22	26°52	6°11	27°13	F 13
S 14	15 24 41	22°38'53	8♈11	20°36	5° 5	27°56	7°47	29°30	7°43	28°46	27°28	25°19	26°49	6°17	27°18	S 14
S 15	15 28 37	23°36'48	22°23	20° 1	6°12	28°39	7°40	29°26	7°41	28°45	27°26	25°D18	26°46	6°24	27°22	S 15
M16	15 32 34	24°34'41	6♈41	19°26	7°19	29°21	7°33	29°22	7°39	28°43	27°25	25°19	26°42	6°31	27°26	M16
T 17	15 36 30	25°32'32	21° 2	18°54	8°25	0♈ 4	7°26	29°18	7°36	28°42	27°23	25°20	26°39	6°37	27°31	T 17
W18	15 40 27	26°30'22	5♈21	18°23	9°31	0°47	7°18	29°14	7°34	28°41	27°22	25°21	26°36	6°44	27°35	W18
T 19	15 44 24	27°28'10	19°37	17°55	10°37	1°29	7°11	29°11	7°31	28°40	27°20	25°22	26°33	6°51	27°39	T 19
F 20	15 48 20	28°25'56	3♈45	17°31	11°43	2°11	7° 4	29° 7	7°29	28°38	27°19	25°R22	26°30	6°58	27°44	F 20
S 21	15 52 17	29°23'40	17°46	17°10	12°48	2°54	6°56	29° 3	7°26	28°37	27°18	25°21	26°27	7° 4	27°48	S 21
S 22	15 56 13	0♈21'23	1♈37	16°53	13°54	3°36	6°49	29° 0	7°24	28°36	27°16	25°19	26°23	7°11	27°52	S 22
M23	16 0 10	1°19'04	15°17	16°39	14°59	4°18	6°41	28°56	7°22	28°34	27°15	25°16	26°20	7°18	27°57	M23
T 24	16 4 6	2°16'44	28°44	16°30	16° 4	5° 0	6°34	28°53	7°19	28°33	27°14	25°13	26°17	7°24	28° 1	T 24
W25	16 8 3	3°14'22	11♈58	16°26	17° 9	5°43	6°26	28°49	7°17	28°31	27°12	25°10	26°14	7°31	28° 5	W25
T 26	16 11 59	4°11'59	24°57	16°D26	18°13	6°25	6°18	28°46	7°14	28°30	27°11	25° 7	26°11	7°38	28°10	T 26
F 27	16 15 56	5° 9'34	7♈42	16°30	19°17	7° 7	6°11	28°43	7°12	28°28	27°10	25° 5	26° 7	7°44	28°14	F 27
S 28	16 19 53	6° 7'09	20°12	16°39	20°21	7°49	6° 3	28°40	7° 9	28°27	27° 9	25°D 4	26° 4	7°51	28°18	S 28
S 29	16 23 49	7° 4'42	2♈29	16°52	21°25	8°31	5°55	28°37	7° 7	28°26	27° 7	25° 4	26° 1	7°58	28°22	S 29
M30	16 27 46	8° 2'15	14°35	17°10	22°28	9°13	5°48	28°34	7° 4	28°24	27° 6	25° 5	25°58	8° 4	28°27	M30
T 31	16 31 42	8♈59'46	26♈32	17♈32	23♈31	9♈54	5♈40	28♈31	7♈ 2	28♈23	27♈ 5	25♈ 6	25♈55	8♈11	28♈31	T 31

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	14n50	23s11	0n 8	21n29	2n24	25n13	2n 8	17n28	0n 6	20s55	0n56	9s 3	2n44	21s35	0n 6	22s11	1n16	5n43	17n33	23n23	23n25	22s 5	16n20	3s 6	16n20
M 2	15 8	24 14	0s58	21 20	2 15	25 20	2 10	17 40	0 6	20 54	0 56	9 2	2 44	21 34	0 6	22 11	1 16	5 43	17 32	23 23	23 25	22 4	16 21	3 6	16 21
T 3	15 26	24 8	2 0	21 10	2 6	25 27	2 12	17 52	0 7	20 53	0 56	9 0	2 44	21 34	0 6	22 11	1 16	5 44	17 32	23 23	23 25	22 3	16 21	3 6	16 21
W 4	15 44	22 56	2 56	20 57	1 54	25 32	2 14	18 5	0 8	20 52	0 56	8 59	2 44	21 34	0 6	22 11	1 16	5 44	17 32	23 23	23 25	22 2	16 22	3 6	16 22
T 5	16 2	20 43	3 45	20 41	1 42	25 37	2 16	18 16	0 8	20 51	0 56	8 57	2 44	21 33	0 6	22 11	1 16	5 45	17 32	23 23	23 25	22 1	16 23	3 6	16 23
F 6	16 19	17 37	4 24	20 24	1 29	25 41	2 18	18 28	0 9	20 50	0 56	8 56	2 44	21 33	0 6	22 11	1 16	5 45	17 32	23 23	23 25	22 0	16 24	3 6	16 24
S 7	16 36	13 46	4 52	20 5	1 15	25 45	2 20	18 40	0 10	20 49	0 56	8 54	2 44	21 33	0 6	22 11	1 16	5 45	17 32	23 23	23 25	21 59	16 25	3 6	16 25
S 8	16 52	9 18	5 8	19 43	0 59	25 48	2 22	18 51	0 10	20 48	0 56	8 53	2 44	21 32	0 6	22 10	1 16	5 46	17 31	23 23	23 25	21 58	16 26	3 6	16 26
M 9	17 9	4 22	5 9	19 21	0 43	25 50	2 24	19 2	0 11	20 47	0 56	8 52	2 44	21 32	0 6	22 10	1 16	5 46	17 31	23 22	23 25	21 58	16 27	3 6	16 27
T 10	17 25	0n53	4 55	18 57	0 27	25 52	2 25	19 13	0 11	20 46	0 56	8 50	2 44	21 32	0 6	22 10	1 16	5 46	17 31	23 22	23 24	21 56	16 28	3 6	16 28
W11	17 41	6 14	4 26	18 32	0 10	25 53	2 27	19 24	0 12	20 45	0 56	8 49	2 44	21 31	0 6	22 10	1 16	5 47	17 31	23 22	23 24	21 55	16 29	3 7	16 29
T 12	17 56	11 26	3 41	18 6	0s 8	25 53	2 28	19 35	0 13	20 44	0 56	8 48	2 43	21 31	0 6	22 10	1 16	5 47	17 31	23 22	23 24	21 54	16 30	3 7	16 30
F 13	18 11	16 12	2 42	17 39	0 25	25 52	2 30	19 45	0 13	20 43	0 56	8 46	2 43	21 30	0 6	22 10	1 16	5 47	17 30	23 22	23 24	21 53	16 31	3 7	16 31
S 14	18 26	20 9	1 32	17 13	0 43	25 51	2 31	19 56	0 14	20 42	0 56	8 45	2 43	21 30	0 6	22 10	1 16	5 48	17 30	23 22	23 24	21 52	16 32	3 7	16 32
S 15	18 41	22 57	0 16	16 47	1 0	25 49	2 32	20 6	0 15	20 41	0 55	8 44	2 43	21 30	0 6	22 10	1 16	5 48	17 30	23 21	23 24	21 51	16 32	3 7	16 32
M16	18 55	24 18	1n 2	16 21	1 17	25 47	2 33	20 16	0 15	20 40	0 55	8 42	2 43	21 29	0 6	22 10	1 16	5 48	17 29	23 22	23 24	21 50	16 33	3 7	16 33
T 17	19 9	24 2	2 16	15 57	1 33	25 44	2 34	20 25	0 16	20 39	0 55	8 41	2 43	21 29	0 6	22 10	1 16	5 48	17 29	23 22	23 24	21 49	16 34	3 7	16 34
W18	19 23	22 12	3 22	15 33	1 49	25 40	2 35	20 35	0 16	20 37	0 55	8 40	2 43	21 29	0 6	22 10	1 16	5 48	17 29	23 22	23 24	21 48	16 35	3 7	16 35
T 19	19 36	18 58	4 15	15 11	2 4	25 36	2 35	20 44	0 17	20 36	0 55	8 39	2 43	21 28	0 6	22 10	1 16	5 49	17 29	23 22	23 24	21 47	16 36	3 7	16 36
F 20	19 49	14 40	4 52	14 50	2 19	25 31	2 36	20 53	0 18	20 35	0 55	8 38	2 42	21 28	0 6	22 10	1 16	5 49	17 28	23 22	23 24	21 46	16 37	3 7	16 37
S 21	20 1	9 36	5 11	14 32	2 32	25 25	2 37	21 2	0 18	20 34	0 55	8 37	2 42	21 27	0 6	22 10	1 16	5 49	17 28	23 22	23 24	21 45	16 38	3 7	16 38
S 22	20 14	4 8	5 12	14 15	2 45	25 19	2 37	21 11	0 19	20 33	0 55	8 36	2 42	21 27	0 6	22 10	1 16	5 49	17 28	23 22	23 24	21 44	16 39	3 7	16 39
M23	20 26	1s29	4 55	14 0	2 56	25 12	2 37	21 19	0 19	20 32	0 55	8 34	2 42	21 27	0 6	22 10	1 16	5 49	17 27	23 21	23 23	21 43	16 40	3 7	16 40
T 24	20 37	6 56	4 22	13 48	3 6	25 5	2 37	21 28	0 20	20 30	0 55	8 33	2 42	21 26	0 6	22 10	1 16	5 49	17 27	23 21	23 23	21 42	16 40	3 7	16 40
W25	20 48	12 0	3 35	13 38	3 15	24 57	2 37	21 36	0 21	20 29	0 55	8 32	2 42	21 26	0 6	22 10	1 16	5 50	17 27	23 21	23 23	21 41	16 41	3 8	16 41
T 26	20 59	16 27	2 38	13 30	3 23	24 48	2 37	21 44	0 21	20 28	0 55	8 31	2 41	21 25	0 6	22 10	1 16	5 50	17 26	23 21	23 23	21 40	16 42	3 8	16 42
F 27	21 10	20 3	1 34	13 25	3 30	24 39	2 37	21 51	0 22	20 27	0 54	8 30	2 41	21 25	0 6	22 10	1 16	5 50	17 26	23 21	23 23	21 39	16 43	3 8	16 43
S 28	21 20	22 38	0 27	13 22	3 36	24 29	2 37	21 59	0 22	20 26	0 54	8 29	2 41	21 25	0 6	22 10	1 16	5 50	17 25	23 21	23 23	21 37	16 44	3 8	16 44
S 29	21 30	24 6	0s41	13 21	3 41	24 19	2 36	22 6	0 23	20 24	0 54	8 29	2 41	21 24	0 6	22 10	1 16	5 50	17 25	23 21	23 23	21 36	16 45	3 8	16 45
M30	21 39	24 24	1 46	13 22	3 45	24 8	2 36	22 13	0 23	20 23	0 54	8 28	2 41	21 24	0 6	22 10	1 16	5 50	17 25	23 21	23 23	21 35	16 45	3 8	16 45
T 31	21n48	23s33	2s45	13n26	3s47	23n56	2n35	22n20	0n24	20s22	0n54	8s27	2n40	21s23	0n 6	22s10	1n16	5n50	17n24	23n21	23n23	21s34	16n46	3s 8	16 46

ASTRODIENST EPHEMERIS for the year 1983
geocentric

JUNE 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 35 39	9Ⅱ5717	8Ⅲ24	17Ⅲ59	24Ⅲ34	10Ⅱ36	5°R33	28°R28	6°R59	28°R21	27°R 4	25Ⅱ 8	25Ⅱ52	8Ⅲ18	28Ⅲ35	W 1
T 2	16 39 35	10°54'46	20°15	18°29	25°37	11°18	5Ⅲ25	28Ⅲ25	6Ⅲ57	28Ⅲ20	27Ⅲ 3	25° 9	25°48	8°24	28°40	T 2
F 3	16 43 32	11°52'15	2Ⅲ 8	19° 4	26°39	12° 0	5°17	28°22	6°54	28°18	27° 2	25°10	25°45	8°31	28°44	F 3
S 4	16 47 28	12°49'43	14°10	19°43	27°41	12°41	5°10	28°20	6°52	28°17	27° 1	25°R10	25°42	8°38	28°48	S 4
S 5	16 51 25	13°47'10	26°24	20°26	28°43	13°23	5° 2	28°17	6°49	28°15	27° 0	25°10	25°39	8°44	28°52	S 5
M 6	16 55 22	14°44'37	8Ⅲ54	21°13	29°45	14° 5	4°55	28°15	6°47	28°13	26°59	25° 9	25°36	8°51	28°57	M 6
T 7	16 59 18	15°42'03	21°44	22° 3	0Ⅲ46	14°46	4°47	28°12	6°44	28°12	26°58	25° 8	25°33	8°58	29° 1	T 7
W 8	17 3 15	16°39'28	4Ⅲ58	22°57	1°46	15°28	4°40	28°10	6°42	28°10	26°57	25° 7	25°29	9° 4	29° 5	W 8
T 9	17 7 11	17°36'53	18°35	23°55	2°47	16° 9	4°33	28° 8	6°40	28° 9	26°56	25° 6	25°26	9°11	29° 9	T 9
F 10	17 11 8	18°34'17	2Ⅲ35	24°56	3°47	16°50	4°26	28° 6	6°37	28° 7	26°55	25° 5	25°23	9°18	29°13	F 10
S 11	17 15 4	19°31'41	16°55	26° 1	4°47	17°32	4°18	28° 4	6°35	28° 5	26°54	25° 5	25°20	9°24	29°17	S 11
S 12	17 19 1	20°29'03	1Ⅲ30	27° 8	5°46	18°13	4°11	28° 2	6°32	28° 4	26°53	25°D 5	25°17	9°31	29°22	S 12
M13	17 22 57	21°26'25	16°15	28°20	6°45	18°54	4° 4	28° 0	6°30	28° 2	26°53	25° 5	25°13	9°38	29°26	M13
T 14	17 26 54	22°23'46	1Ⅲ 1	29°34	7°44	19°36	3°57	27°58	6°28	28° 1	26°52	25° 5	25°10	9°45	29°30	T 14
W15	17 30 51	23°21'06	15°42	0Ⅲ52	8°42	20°17	3°50	27°57	6°25	27°59	26°51	25° 5	25° 7	9°51	29°34	W15
T 16	17 34 47	24°18'26	0Ⅲ13	2°13	9°40	20°58	3°44	27°55	6°23	27°57	26°50	25° 5	25° 4	9°58	29°38	T 16
F 17	17 38 44	25°15'44	14°30	3°37	10°37	21°39	3°37	27°54	6°21	27°56	26°50	25°R 5	25° 1	10° 5	29°42	F 17
S 18	17 42 40	26°13'01	28°30	5° 4	11°34	22°20	3°30	27°52	6°18	27°54	26°49	25°D 5	24°58	10°11	29°46	S 18
S 19	17 46 37	27°10'18	12Ⅲ12	6°34	12°30	23° 1	3°24	27°51	6°16	27°53	26°48	25° 6	24°54	10°18	29°50	S 19
M20	17 50 33	28° 7'33	25°36	8° 7	13°26	23°42	3°17	27°50	6°14	27°51	26°48	25° 6	24°51	10°25	29°54	M20
T 21	17 54 30	29° 4'48	8Ⅲ44	9°43	14°22	24°23	3°11	27°49	6°12	27°49	26°47	25° 6	24°48	10°31	29°58	T 21
W22	17 58 26	0Ⅲ 2'02	21°36	11°23	15°17	25° 4	3° 5	27°48	6° 9	27°48	26°47	25° 7	24°45	10°38	0Ⅲ 2	W22
T 23	18 2 23	0°59'16	4Ⅲ14	13° 5	16°11	25°44	2°59	27°47	6° 7	27°46	26°46	25° 7	24°42	10°45	0° 6	T 23
F 24	18 6 20	1°56'29	16°40	14°50	17° 5	26°25	2°53	27°46	6° 5	27°45	26°46	25° 7	24°39	10°51	0° 9	F 24
S 25	18 10 16	2°53'42	28°55	16°38	17°58	27° 6	2°47	27°45	6° 3	27°43	26°45	25°R 7	24°35	10°58	0°13	S 25
S 26	18 14 13	3°50'55	11Ⅲ 1	18°29	18°50	27°47	2°42	27°45	6° 1	27°41	26°45	25° 7	24°32	11° 5	0°17	S 26
M27	18 18 9	4°48'07	23° 0	20°22	19°42	28°27	2°36	27°44	5°59	27°40	26°44	25° 6	24°29	11°11	0°21	M27
T 28	18 22 6	5°45'19	4Ⅲ54	22°18	20°34	29° 8	2°31	27°44	5°57	27°38	26°44	25° 5	24°26	11°18	0°25	T 28
W29	18 26 2	6°42'31	16°44	24°16	21°24	29°48	2°26	27°44	5°55	27°37	26°44	25° 3	24°23	11°25	0°28	W29
T 30	18 29 59	7Ⅲ39'42	28Ⅲ35	26Ⅲ17	22Ⅲ14	0Ⅲ29	2Ⅲ20	27Ⅲ43	5Ⅲ53	27Ⅲ35	26Ⅲ44	25Ⅲ 2	24Ⅲ19	11Ⅲ32	0Ⅲ32	T 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
W 1	21n57	21s40	3s37	13n31	3s49	23n44	2n34	22n27	0n25	20s21	0n54	8s26	2n40	21s23	0n 6	22s10	1n16	5n50	17n24	23n21	23n23	21s33	16n47	3s 8	
T 2	22 5	18 51	4 20	13 39	3 50	23 32	2 33	22 33	0 25	20 20	0 54	8 25	2 40	21 23	0 6	22 10	1 16	5 50	17 23	23 21	23 23	21 32	16 48	3 8	
F 3	22 13	15 15	4 52	13 49	3 49	23 19	2 32	22 39	0 26	20 18	0 54	8 24	2 40	21 22	0 6	22 10	1 16	5 50	17 23	23 21	23 22	21 31	16 49	3 9	
S 4	22 20	11 1	5 11	14 0	3 48	23 5	2 31	22 45	0 26	20 17	0 54	8 24	2 40	21 22	0 6	22 10	1 16	5 50	17 23	23 21	23 22	21 29	16 49	3 9	
S 5	22 27	6 16	5 17	14 13	3 46	22 51	2 29	22 51	0 27	20 16	0 53	8 23	2 39	21 21	0 6	22 10	1 16	5 50	17 22	23 21	23 22	21 28	16 50	3 9	
M 6	22 34	1 11	5 8	14 28	3 44	22 37	2 28	22 57	0 27	20 15	0 53	8 22	2 39	21 21	0 6	22 10	1 16	5 50	17 22	23 21	23 22	21 27	16 51	3 9	
T 7	22 40	4n 5	4 43	14 44	3 40	22 22	2 26	23 2	0 28	20 13	0 53	8 22	2 39	21 21	0 6	22 10	1 16	5 49	17 21	23 21	23 22	21 26	16 52	3 9	
W 8	22 46	9 21	4 3	15 2	3 36	22 6	2 24	23 7	0 28	20 12	0 53	8 21	2 39	21 20	0 6	22 10	1 16	5 49	17 21	23 21	23 22	21 25	16 53	3 9	
T 9	22 52	14 20	3 9	15 21	3 31	21 51	2 22	23 12	0 29	20 11	0 53	8 21	2 38	21 20	0 6	22 10	1 16	5 49	17 20	23 21	23 22	21 24	16 53	3 9	
F 10	22 57	18 41	2 2	15 41	3 25	21 34	2 20	23 17	0 30	20 10	0 53	8 20	2 38	21 19	0 6	22 10	1 16	5 49	17 20	23 21	23 22	21 22	16 54	3 10	
S 11	23 2	22 3	0 45	16 2	3 19	21 18	2 18	23 21	0 30	20 9	0 53	8 20	2 38	21 19	0 6	22 10	1 16	5 49	17 19	23 21	23 22	21 21	16 55	3 10	
S 12	23 6	24 2	0n36	16 25	3 12	21 1	2 15	23 26	0 31	20 8	0 52	8 19	2 38	21 19	0 6	22 10	1 16	5 49	17 19	23 21	23 21	21 20	16 55	3 10	
M13	23 10	24 21	1 55	16 48	3 4	20 43	2 12	23 30	0 31	20 6	0 52	8 19	2 37	21 18	0 6	22 10	1 16	5 49	17 18	23 21	23 21	21 19	16 56	3 10	
T 14	23 13	22 58	3 6	17 12	2 56	20 26	2 10	23 34	0 32	20 5	0 52	8 18	2 37	21 18	0 6	22 10	1 16	5 48	17 18	23 21	23 21	21 18	16 57	3 10	
W15	23 16	20 2	4 6	17 36	2 48	20 7	2 7	23 37	0 32	20 4	0 52	8 18	2 37	21 17	0 6	22 9	1 16	5 48	17 17	23 21	23 21	21 16	16 58	3 10	
T 16	23 19	15 53	4 48	18 1	2 38	19 49	2 4	23 41	0 33	20 3	0 52	8 18	2 37	21 17	0 6	22 9	1 16	5 48	17 17	23 21	23 21	21 15	16 58	3 10	
F 17	23 21	10 54	5 12	18 26	2 29	19 30	2 0	23 44	0 33	20 2	0 52	8 17	2 37	21 17	0 6	22 9	1 16	5 48	17 16	23 21	23 21	21 14	16 59	3 11	
S 18	23 23	5 26	5 17	18 52	2 19	19 11	1 57	23 47	0 34	20 1	0 51	8 17	2 36	21 16	0 6	22 9	1 16	5 47	17 16	23 21	23 21	21 13	17 0	3 11	
S 19	23 25	0s10	5 3	19 18	2 9	18 52	1 53	23 50	0 34	20 0	0 51	8 17	2 36	21 16	0 6	22 9	1 16	5 47	17 15	23 21	23 21	21 11	17 0	3 11	
M20	23 26	5 39	4 34	19 43	1 58	18 32	1 49	23 52	0 35	19 59	0 51	8 17	2 36	21 15	0 6	22 9	1 16	5 47	17 15	23 21	23 20	21 10	17 1	3 11	
T 21	23 26	10 47	3 50	20 9	1 47	18 12	1 45	23 55	0 35	19 58	0 51	8 17	2 36	21 15	0 6	22 9	1 16	5 47	17 14	23 21	23 20	21 9	17 2	3 11	
W22	23 27	15 20	2 55	20 34	1 36	17 52	1 41	23 57	0 36	19 57	0 51	8 16	2 35	21 15	0 6	22 9	1 16	5 46	17 14	23 21	23 20	21 8	17 2	3 11	
T 23	23 26	19 8	1 53	20 59	1 24	17 31	1 37	23 59	0 37	19 56	0 50	8 16	2 35	21 14	0 6	22 9	1 16	5 46	17 13	23 21	23 20	21 6	17 3	3 12	
F 24	23 26	22 0	0 47	21 22	1 13	17 11	1 32	24 1	0 37	19 55	0 50	8 16	2 35	21 14	0 6	22 9	1 16	5 46	17 13	23 21	23 20	21 5	17 4	3 12	
S 25	23 25	23 47	0s21	21 46	1 1	16 50	1 27	24 2	0 38	19 54	0 50	8 16	2 34	21 14	0 6	22 9	1 16	5 45	17 12	23 21	23 20	21 4	17 4	3 12	
S 26	23 23	24 26	1 27	22 8	0 49	16 29	1 22	24 3	0 38	19 53	0 50	8 16	2 34	21 13	0 6	22 9	1 16	5 45	17 12	23 21	23 20	21 3	17 5	3 12	
M27	23 21	23 55	2 28	22 28	0 37	16 8	1 17	24 5	0 39	19 52	0 50	8 16	2 34	21 13	0 6	22 9	1 16	5 44	17 11	23 21	23 20	21 1	17 5	3 12	
T 28	23 19	22 19	3 23	22 47	0 26	15 46	1 12	24 5	0 39	19 51	0 49	8 17	2 34	21 13	0 6	22 9	1 16	5 44	17 10	23 21	23 19	21 0	17 6	3 13	
W29	23 16	19 46	4 8	23 5	0 14	15 25	1 6	24 6	0 40	19 51	0 49	8 17	2 33	21 12	0 6	22 9	1 16	5 44	17 10	23 21	23 19	20 59	17 6	3 13	
T 30	23n13	16s23	4s43	23n21	0s 3	15n 3	1n 0	24n 7	0n40	19s50	0n49	8s17	2n33	21s12	0n 5	22s 9	1n16	5n43	17n 9	23n21	23n19	20s57	17n 7	3s13	

ASTRODIENST EPHEMERIS for the year 1983
geocentric

JULY 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 33 56	8♂36°54	10♂29	28♂20	23♂4	1♂9	2°R15	27°R43	5°R51	27°R33	26°R43	25°R 0	24♂16	11♂38	0♂36	F 1
S 2	18 37 52	9°34'06	22°30	0♂25	23°52	1°50	2♂11	27°D43	5♂49	27♂32	26♂43	24♂59	24°13	11°45	0°39	S 2
S 3	18 41 49	10°31'18	4♂43	2°31	24°40	2°30	2° 6	27♂43	5°47	27°30	26°43	24°58	24°10	11°52	0°43	S 3
M 4	18 45 45	11°28'30	17°10	4°38	25°27	3°10	2° 2	27°44	5°45	27°29	26°43	24°D58	24° 7	11°58	0°46	M 4
T 5	18 49 42	12°25'42	29°57	6°47	26°13	3°51	1°57	27°44	5°43	27°27	26°43	24°59	24° 4	12° 5	0°50	T 5
W 6	18 53 38	13°22'55	13♂7	8°57	26°59	4°31	1°53	27°44	5°41	27°26	26°43	25° 0	24° 0	12°12	0°53	W 6
T 7	18 57 35	14°20'08	26°43	11° 7	27°43	5°11	1°49	27°45	5°40	27°24	26°D43	25° 1	23°57	12°18	0°57	T 7
F 8	19 1 31	15°17'21	10♂15	13°17	28°27	5°51	1°45	27°45	5°38	27°22	26°43	25° 2	23°54	12°25	1° 0	F 8
S 9	19 5 28	16°14'35	25°12	15°27	29° 9	6°32	1°41	27°46	5°36	27°21	26°43	25°R 3	23°51	12°32	1° 4	S 9
S 10	19 9 25	17°11'49	10♂0	17°37	29°51	7°12	1°38	27°47	5°34	27°19	26°43	25° 2	23°48	12°38	1° 7	S 10
M 11	19 13 21	18° 9'03	25° 2	19°46	0♂31	7°52	1°34	27°48	5°33	27°18	26°43	25° 1	23°45	12°45	1°10	M 11
T 12	19 17 18	19° 6'17	10♂9	21°54	1°11	8°32	1°31	27°49	5°31	27°16	26°43	24°58	23°41	12°52	1°14	T 12
W 13	19 21 14	20° 3'32	25°12	24° 1	1°49	9°12	1°28	27°50	5°30	27°15	26°43	24°55	23°38	12°59	1°17	W 13
T 14	19 25 11	21° 0'46	10♂7	26° 7	2°27	9°52	1°25	27°51	5°28	27°14	26°43	24°51	23°35	13° 5	1°20	T 14
F 15	19 29 7	21°58'00	24°33	28°12	3° 3	10°32	1°23	27°52	5°27	27°12	26°44	24°49	23°32	13°12	1°23	F 15
S 16	19 33 4	22°55'14	8♂41	0♂16	3°37	11°12	1°20	27°54	5°25	27°11	26°44	24°47	23°29	13°19	1°26	S 16
S 17	19 37 0	23°52'29	22°24	2°17	4°11	11°51	1°18	27°55	5°24	27° 9	26°44	24°D46	23°25	13°25	1°29	S 17
M 18	19 40 57	24°49'43	5♂42	4°18	4°43	12°31	1°16	27°57	5°23	27° 8	26°45	24°46	23°22	13°32	1°32	M 18
T 19	19 44 54	25°46'58	18°39	6°16	5°14	13°11	1°14	27°58	5°21	27° 6	26°45	24°48	23°19	13°39	1°35	T 19
W 20	19 48 50	26°44'12	1♂18	8°13	5°43	13°51	1°12	28° 0	5°20	27° 5	26°45	24°49	23°16	13°45	1°38	W 20
T 21	19 52 47	27°41'27	13°41	10° 8	6°11	14°30	1°10	28° 2	5°19	27° 4	26°46	24°51	23°13	13°52	1°41	T 21
F 22	19 56 43	28°38'43	25°53	12° 2	6°37	15°10	1° 9	28° 4	5°18	27° 2	26°46	24°R51	23°10	13°59	1°44	F 22
S 23	20 0 40	29°35'58	7♂56	13°53	7° 2	15°49	1° 8	28° 6	5°17	27° 1	26°47	24°50	23° 6	14° 5	1°47	S 23
S 24	20 4 36	0♂33'15	19°53	15°43	7°25	16°29	1° 7	28° 8	5°16	27° 0	26°47	24°48	23° 3	14°12	1°49	S 24
M 25	20 8 33	1°30'31	1♂46	17°31	7°46	17° 9	1° 6	28°10	5°15	26°59	26°48	24°43	23° 0	14°19	1°52	M 25
T 26	20 12 29	2°27'49	13°37	19°18	8° 5	17°48	1° 5	28°13	5°14	26°57	26°48	24°38	22°57	14°25	1°55	T 26
W 27	20 16 26	3°25'07	25°28	21° 2	8°23	18°27	1° 5	28°15	5°13	26°56	26°49	24°31	22°54	14°32	1°57	W 27
T 28	20 20 23	4°22'26	7♂20	22°45	8°39	19° 7	1° 4	28°18	5°12	26°55	26°50	24°24	22°51	14°39	2° 0	T 28
F 29	20 24 19	5°19'45	19°17	24°26	8°52	19°46	1°D 4	28°20	5°11	26°54	26°51	24°17	22°47	14°46	2° 2	F 29
S 30	20 28 16	6°17'06	1♂20	26° 6	9° 4	20°26	1° 4	28°23	5°10	26°53	26°51	24°11	22°44	14°52	2° 5	S 30
S 31	20 32 12	7♂14'27	13♂34	27♂43	9♂13	21♂5	1♂4	28♂26	5♂9	26♂51	26♂52	24♂6	22♂41	14♂59	2♂7	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	23n10	12s21	5s 6	23n34	0n 9	14n41	0n54	24n 7	0n41	19s49	0n49	8s17	2n33	21s12	0n 5	22s 9
S 2	23 6	7 48	5 16	23 46	0 19	14 19	0 48	24 7	0 41	19 48	0 49	8 17	2 33	21 11	0 5	22 9
S 3	23 1	2 54	5 11	23 55	0 30	13 57	0 42	24 7	0 42	19 48	0 48	8 18	2 32	21 11	0 5	22 9
M 4	22 57	2n14	4 53	24 1	0 40	13 35	0 35	24 6	0 42	19 47	0 48	8 18	2 32	21 11	0 5	22 9
T 5	22 52	7 25	4 19	24 5	0 49	13 13	0 28	24 6	0 43	19 46	0 48	8 18	2 32	21 10	0 5	22 9
W 6	22 46	12 25	3 31	24 6	0 58	12 51	0 21	24 5	0 43	19 46	0 48	8 19	2 32	21 10	0 5	22 9
T 7	22 40	16 59	2 30	24 5	1 6	12 29	0 14	24 4	0 44	19 45	0 48	8 19	2 31	21 10	0 5	22 9
F 8	22 34	20 46	1 18	24 0	1 14	12 7	0 7	24 3	0 44	19 44	0 47	8 20	2 31	21 9	0 5	22 9
S 9	22 27	23 22	0n 1	23 53	1 21	11 45	0s 1	24 1	0 44	19 44	0 47	8 20	2 31	21 9	0 5	22 9
S 10	22 20	24 25	1 21	23 43	1 27	11 23	0 9	24 0	0 45	19 43	0 47	8 21	2 30	21 9	0 5	22 9
M 11	22 13	23 43	2 38	23 31	1 32	11 1	0 17	23 58	0 45	19 43	0 47	8 21	2 30	21 9	0 5	22 9
T 12	22 5	21 17	3 43	23 15	1 37	10 39	0 26	23 56	0 46	19 43	0 46	8 22	2 30	21 8	0 5	22 9
W 13	21 57	17 24	4 33	22 58	1 41	10 18	0 34	23 54	0 46	19 42	0 46	8 22	2 30	21 8	0 5	22 9
T 14	21 48	12 29	5 3	22 38	1 44	9 56	0 43	23 51	0 47	19 42	0 46	8 23	2 29	21 8	0 5	22 9
F 15	21 39	6 58	5 14	22 16	1 46	9 35	0 52	23 49	0 47	19 41	0 46	8 24	2 29	21 8	0 5	22 9
S 16	21 30	1 13	5 5	21 51	1 48	9 13	1 2	23 46	0 48	19 41	0 46	8 24	2 29	21 7	0 5	22 9
S 17	21 20	4s25	4 38	21 25	1 49	8 52	1 11	23 43	0 48	19 41	0 45	8 25	2 29	21 7	0 5	22 9
M 18	21 10	9 41	3 57	20 57	1 49	8 31	1 21	23 40	0 49	19 41	0 45	8 26	2 28	21 7	0 5	22 9
T 19	20 59	14 24	3 5	20 28	1 49	8 11	1 31	23 36	0 49	19 41	0 45	8 27	2 28	21 7	0 5	22 9
W 20	20 49	18 23	2 5	19 57	1 48	7 51	1 41	23 33	0 50	19 40	0 45	8 28	2 28	21 6	0 5	22 9
T 21	20 38	21 26	1 1	19 24	1 46	7 31	1 52	23 29	0 50	19 40	0 44	8 29	2 28	21 6	0 5	22 9
F 22	20 26	23 28	0s 6	18 51	1 44	7 11	2 3	23 25	0 50	19 40	0 44	8 30	2 27	21 6	0 5	22 9
S 23	20 14	24 23	1 11	18 16	1 41	6 52	2 14	23 21	0 51	19 40	0 44	8 31	2 27	21 6	0 5	22 9
S 24	20 2	24 9	2 12	17 40	1 37	6 33	2 25	23 16	0 51	19 40	0 44	8 32	2 27	21 6	0 5	22 9
M 25	19 50	22 49	3 7	17 4	1 33	6 14	2 36	23 12	0 52	19 40	0 43	8 33	2 27	21 6	0 5	22 9
T 26	19 37	20 29	3 54	16 27	1 29	5 56	2 48	23 7	0 52	19 40	0 43	8 34	2 26	21 5	0 5	22 9
W 27	19 24	17 17	4 31	15 49	1 24	5 39	3 0	23 2	0 53	19 40	0 43	8 35	2 26	21 5	0 5	22 9
T 28	19 10	13 23	4 56	15 10	1 19	5 22	3 12	22 57	0 53	19 41	0 43	8 36	2 26	21 5	0 5	22 9
F 29	18 56	8 58	5 8	14 31	1 13	5 5	3 24	22 52	0 54	19 41	0 43	8 37	2 25	21 5	0 5	22 9
S 30	18 42	4 9	5 7	13 52	1 7	4 49	3 37	22 47	0 54	19 41	0 42	8 38	2 25	21 5	0 5	22 9
S 31	18n28	0n52	4s52	13n12	1n 0	4n34	3s49	22n41	0n54	19s41	0n42	8s40	2n25	21s 5	0n 5	22s 9

Julian Day Number = 2445516.5, Delta T = 53.39 sec
Ecliptic obliquity = 23°26'30, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°30'35, Lahiri = 23°37'36

ASTRODIENST EPHEMERIS for the year 1983
geocentric

AUGUST 1983

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	20 36 9	8♌11'50	26♊0	29♌19	9♍21	21♎44	1♏5	28♏29	5♐R 9	26♐R50	26♑53	24♐R 4	22♑38	15♒6	2♒10	M 1
T 2	20 40 5	9° 9'13	8♌43	0♍53	9°26	22°23	1° 5	28°32	5♐8	26♐49	26°54	24°D 3	22°35	15°12	2°12	T 2
W 3	20 44 2	10° 6'38	21°47	2°26	9°29	23° 3	1° 6	28°35	5° 7	26°48	26°55	24°II 4	22°31	15°19	2°14	W 3
T 4	20 47 58	11° 4'05	5♌16	3°56	9°R30	23°42	1° 7	28°38	5° 7	26°47	26°55	24° 5	22°28	15°26	2°16	T 4
F 5	20 51 55	12° 1'32	19°11	5°25	9°28	24°21	1° 8	28°41	5° 6	26°46	26°56	24°R 6	22°25	15°32	2°19	F 5
S 6	20 55 52	12°59'01	3♌33	6°53	9°24	25° 0	1°10	28°44	5° 6	26°45	26°57	24° 5	22°22	15°39	2°21	S 6
S 7	20 59 48	13°56'30	18°19	8°18	9°18	25°39	1°11	28°48	5° 6	26°44	26°58	24° 3	22°19	15°46	2°23	S 7
M 8	21 3 45	14°54'01	3♌24	9°42	9° 9	26°18	1°13	28°51	5° 5	26°43	26°59	23°59	22°16	15°53	2°25	M 8
T 9	21 7 41	15°51'33	18°40	11° 4	8°58	26°57	1°15	28°55	5° 5	26°42	27° 0	23°53	22°12	15°59	2°27	T 9
W10	21 11 38	16°49'06	3♌55	12°24	8°45	27°36	1°17	28°58	5° 5	26°41	27° 2	23°45	22° 9	16° 6	2°28	W10
T 11	21 15 34	17°46'40	19° 0	13°42	8°29	28°15	1°19	29° 2	5° 4	26°40	27° 3	23°37	22° 6	16°13	2°30	T 11
F 12	21 19 31	18°44'15	3♌44	14°58	8°11	28°54	1°21	29° 6	5° 4	26°40	27° 4	23°30	22° 3	16°19	2°32	F 12
S 13	21 23 27	19°41'51	18° 2	16°12	7°51	29°33	1°24	29°10	5° 4	26°39	27° 5	23°24	22° 0	16°26	2°34	S 13
S 14	21 27 24	20°39'28	1♌51	17°24	7°29	0♌11	1°27	29°14	5°D 4	26°38	27° 6	23°20	21°57	16°33	2°35	S 14
M15	21 31 21	21°37'05	15°12	18°33	7° 4	0°50	1°30	29°18	5° 4	26°37	27° 8	23°19	21°53	16°39	2°37	M15
T 16	21 35 17	22°34'44	28° 7	19°41	6°37	1°29	1°33	29°22	5° 4	26°36	27° 9	23°D19	21°50	16°46	2°38	T 16
W17	21 39 14	23°32'24	10♌40	20°46	6° 9	2° 8	1°36	29°26	5° 4	26°36	27°10	23°19	21°47	16°53	2°40	W17
T 18	21 43 10	24°30'05	22°57	21°49	5°39	2°46	1°39	29°30	5° 5	26°35	27°11	23°R20	21°44	16°59	2°41	T 18
F 19	21 47 7	25°27'46	5♌1	22°49	5° 7	3°25	1°43	29°35	5° 5	26°34	27°13	23°19	21°41	17° 6	2°43	F 19
S 20	21 51 3	26°25'29	16°57	23°46	4°33	4° 4	1°47	29°39	5° 5	26°34	27°14	23°16	21°37	17°13	2°44	S 20
S 21	21 55 0	27°23'14	28°48	24°41	3°59	4°42	1°51	29°44	5° 5	26°33	27°16	23°11	21°34	17°20	2°45	S 21
M22	21 58 56	28°20'59	10♌38	25°33	3°23	5°21	1°55	29°48	5° 6	26°33	27°17	23° 3	21°31	17°26	2°46	M22
T 23	22 2 53	29°18'46	22°29	26°21	2°47	5°59	1°59	29°53	5° 6	26°32	27°19	22°53	21°28	17°33	2°47	T 23
W24	22 6 50	0♍16'34	4♌23	27° 6	2°10	6°38	2° 4	29°58	5° 7	26°32	27°20	22°41	21°25	17°40	2°48	W24
T 25	22 10 46	1°14'23	16°21	27°48	1°33	7°16	2° 8	0♌2	5° 7	26°31	27°22	22°29	21°22	17°46	2°49	T 25
F 26	22 14 43	2°12'14	28°25	28°26	0°55	7°55	2°13	0° 7	5° 8	26°31	27°23	22°17	21°18	17°53	2°50	F 26
S 27	22 18 39	3°10'07	10♊36	29° 0	0°18	8°33	2°18	0°12	5° 8	26°30	27°25	22° 6	21°15	18° 0	2°51	S 27
S 28	22 22 36	4° 8'01	22°55	29°29	29♌41	9°11	2°23	0°17	5° 9	26°30	27°26	21°57	21°12	18° 6	2°52	S 28
M29	22 26 32	5° 5'57	5♌26	29°54	29° 5	9°50	2°28	0°22	5°10	26°30	27°28	21°51	21° 9	18°13	2°52	M29
T 30	22 30 29	6° 3'55	18°10	0♌15	28°30	10°28	2°34	0°27	5°11	26°29	27°30	21°48	21° 6	18°20	2°53	T 30
W31	22 34 25	7♍1'55	1♌12	0♌30	27♌56	11♌6	2♌39	0♌33	5♌11	26♌29	27♌31	21♌47	21♌2	18♌27	2♌54	W31

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	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
M 1	18n13	5n58	4s23	12n32	0n53	4n20	4s 2	22n35	0n55	19s42	0n42	8s41	2n25	21s 5	0n 5	22s 9	1n15	5n23	16n51	23n19	23n14	20s13	17n19	3s21	17n19
T 2	17 58	10 56	3 40	11 52	0 46	4 6	4 15	22 29	0 55	19 42	0 42	8 42	2 24	21 4	0 5	22 9	1 15	5 22	16 50	23 18	23 14	20 11	17 19	3 21	17 19
W 3	17 43	15 33	2 45	11 12	0 38	3 52	4 28	22 23	0 56	19 42	0 41	8 43	2 24	21 4	0 5	22 9	1 15	5 21	16 50	23 19	23 14	20 10	17 19	3 21	17 19
T 4	17 27	19 33	1 40	10 32	0 30	3 40	4 41	22 17	0 56	19 43	0 41	8 45	2 24	21 4	0 5	22 9	1 15	5 20	16 49	23 19	23 14	20 8	17 19	3 22	17 19
F 5	17 11	22 34	0 27	9 52	0 22	3 29	4 54	22 11	0 57	19 43	0 41	8 46	2 24	21 4	0 5	22 9	1 15	5 20	16 49	23 19	23 13	20 7	17 19	3 22	17 19
S 6	16 55	24 14	0n51	9 12	0 14	3 18	5 7	22 4	0 57	19 44	0 41	8 47	2 23	21 4	0 5	22 9	1 15	5 19	16 48	23 19	23 13	20 5	17 20	3 22	17 20
S 7	16 39	24 17	2 7	8 32	0 5	3 8	5 20	21 57	0 57	19 44	0 41	8 49	2 23	21 4	0 5	22 9	1 15	5 18	16 48	23 18	23 13	20 4	17 20	3 23	17 20
M 8	16 22	22 34	3 15	7 52	0s 4	2 59	5 33	21 50	0 58	19 45	0 40	8 50	2 23	21 4	0 5	22 9	1 15	5 17	16 47	23 18	23 13	20 2	17 20	3 23	17 20
T 9	16 5	19 12	4 11	7 13	0 13	2 51	5 46	21 43	0 58	19 45	0 40	8 52	2 23	21 4	0 5	22 9	1 15	5 16	16 46	23 18	23 13	20 1	17 20	3 23	17 20
W10	15 48	14 32	4 48	6 34	0 23	2 44	5 59	21 36	0 59	19 46	0 40	8 53	2 23	21 4	0 5	22 9	1 15	5 15	16 46	23 18	23 13	19 59	17 20	3 23	17 20
T 11	15 30	9 2	5 5	5 55	0 32	2 38	6 12	21 29	0 59	19 47	0 40	8 55	2 22	21 4	0 5	22 9	1 15	5 14	16 45	23 17	23 12	19 57	17 20	3 24	17 20
F 12	15 13	3 7	5 1	5 17	0 42	2 33	6 24	21 21	0 59	19 47	0 39	8 56	2 22	21 4	0 5	22 9	1 15	5 13	16 45	23 17	23 12	19 56	17 20	3 24	17 20
S 13	14 55	2s47	4 38	4 39	0 52	2 30	6 36	21 13	1 0	19 48	0 39	8 58	2 22	21 4	0 5	22 9	1 15	5 13	16 44	23 17	23 12	19 54	17 20	3 24	17 20
S 14	14 36	8 22	4 0	4 2	1 2	2 27	6 48	21 6	1 0	19 49	0 39	9 0	2 22	21 4	0 5	22 9	1 15	5 12	16 44	23 16	23 12	19 53	17 20	3 25	17 20
M15	14 18	13 23	3 9	3 25	1 12	2 25	6 59	20 58	1 1	19 50	0 39	9 1	2 21	21 4	0 5	22 9	1 15	5 11	16 43	23 16	23 12	19 51	17 20	3 25	17 20
T 16	13 59	17 37	2 11	2 50	1 22	2 25	7 10	20 49	1 1	19 51	0 39	9 3	2 21	21 4	0 5	22 9	1 14	5 10	16 43	23 16	23 11	19 50	17 20	3 26	17 20
W17	13 40	20 56	1 7	2 15	1 32	2 25	7 21	20 41	1 1	19 51	0 38	9 5	2 21	21 4	0 5	22 9	1 14	5 9	16 42	23 16	23 11	19 48	17 20	3 26	17 20
T 18	13 21	23 13	0 2	1 40	1 43	2 27	7 30	20 33	1 2	19 52	0 38	9 6	2 21	21 4	0 5	22 10	1 14	5 8	16 42	23 16	23 11	19 46	17 20	3 26	17 20
F 19	13 2	24 23	1s 2	1 7	1 53	2 30	7 40	20 24	1 2	19 53	0 38	9 8	2 20	21 4	0 5	22 10	1 14	5 7	16 41	23 16	23 11	19 45	17 20	3 26	17 20
S 20	12 43	24 24	2 3	0 35	2 4	2 34	7 48	20 15	1 3	19 54	0 38	9 10	2 20	21 4	0 5	22 10	1 14	5 6	16 41	23 16	23 11	19 43	17 20	3 26	17 20
S 21	12 23	23 17	2 57	0 4	2 14	2 39	7 56	20 6	1 3	19 55	0 37	9 12	2 20	21 4	0 5	22 10	1 14	5 5	16 40	23 16	23 10	19 42	17 20	3 27	17 20
M22	12 3	21 9	3 44	0s26	2 24	2 45	8 3	19 57	1 3	19 56	0 37	9 13	2 20	21 4	0 5	22 10	1 14	5 4	16 40	23 16	23 10	19 40	17 20	3 27	17 20
T 23	11 43	18 7	4 21	0 55	2 34	2 52	8 9	19 48	1 4	19 57	0 37	9 15	2 20	21 4	0 5	22 10	1 14	5 3	16 39	23 15	23 10	19 38	17 20	3 27	17 20
W24	11 23	14 21	4 47	1 22	2 45	3 0	8 15	19 39	1 4	19 58	0 37	9 17	2 19	21 5	0 5	22 10	1 14	5 2	16 39	23 14	23 10	19 37	17 20	3 28	17 20
T 25	11 2	9 59	5 0	1 48	2 54	3 8	8 19	19 30	1 4	20 0	0 37	9 19	2 19	21 5	0 5	22 10	1 14	5 1	16 38	23 14	23 10	19 35	17 19	3 28	17 20
F 26	10 41	5 13	5 0	2 11	3 4	3 18	8 23	19 20	1 5	20 1	0 36	9 21	2 19	21 5	0 5	22 10	1 14	5 0	16 38	23 13	23 9	19 34	17 19	3 28	17 20
S 27	10 21	0 12	4 46	2 34	3 14	3 28	8 26	19 10	1 5	20 2	0 36	9 23	2 19	21 5	0 5	22 10	1 14	4 59	16 37	23 12	23 9	19 32	17 19	3 29	17 20
S 28	10 0	4n54	4 19	2 54	3 23	3 39	8 27	19 1	1 6	20 3	0 36	9 25	2 19	21 5	0 5	22 10	1 14	4 58	16 37	23 12	23 9	19 30	17 19	3 29	17 20
M29	9 39	9 53	3 39	3 12	3 32	3 51	8 28	18 51	1 6	20 4	0 36	9 26	2 18	21 5	0 5	22 10	1 14	4 57	16 36	23 11	23 9	19 29	17 19	3 30	17 20
T 30	9 17	14 33	2 48	3 28	3 40	4 2	8 28	18 41	1 6	20 6	0 36	9 28	2 18	21 5	0 5	22 10	1 14	4 56	16 36	23 11	23 9	19 27	17 19	3 30	17 20
W31	8n56	18n40	1s47	3s41	3s48	4n15	8s27	18n31	1n 7	20s 7	0n35	9s30	2n18	21s 6	0n 5	22s10	1n14	4n55	16n36	23n11	23n 8	19s25	17n18	3s30	17 20

ASTRODIENST EPHEMERIS for the year 1983
geocentric

SEPTEMBER 1983

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T 1	22 38 22	7 ^h 59 ^m 57 ^s	14 ^h 11 ^m 34 ^s	0 ^h 40 ^m	27°R23	11 ^h 04 ^m 45 ^s	2 ^h 45 ^m	0 ^h 38 ^m	5 ^h 12 ^m	26°R29	27 ^h 33 ^m	21°R47	20 ^h 59 ^m	18 ^h 33 ^m	2 ^h 54 ^m	T 1
F 2	22 42 19	8°58'01"	28°19'	0°R45	26 ^h 05 ^m 22 ^s	12°23'	2°51'	0°43'	5°13'	26 ^h 28 ^m	27°35'	21 ^h 47 ^m	20°56'	18°40'	2°55'	F 2
S 3	22 46 15	9°56'06"	12 ^h 09 ^m 29 ^s	0°43'	26°22'	13° 1'	2°57'	0°49'	5°14'	26°28'	27°37'	21°45'	20°53'	18°47'	2°55'	S 3
S 4	22 50 12	10°54'14"	27° 3'	0°36'	25°54'	13°39'	3° 3'	0°54'	5°15'	26°28'	27°38'	21°42'	20°50'	18°53'	2°55'	S 4
M 5	22 54 8	11°52'24"	11 ^h 05 ^m 27 ^s	0°22'	25°28'	14°17'	3° 9'	0°59'	5°16'	26°28'	27°40'	21°36'	20°47'	19° 0'	2°56'	M 5
T 6	22 58 5	12°50'35"	27° 5'	0° 2'	25° 4'	14°55'	3°16'	1° 5'	5°17'	26°28'	27°42'	21°27'	20°43'	19° 7'	2°56'	T 6
W 7	23 2 1	13°48'48"	12 ^h 17 ^m 17 ^s	29 ^h 36 ^m	24°42'	15°33'	3°22'	1°11'	5°19'	26°28'	27°44'	21°17'	20°40'	19°13'	2°56'	W 7
T 8	23 5 58	14°47'03"	27°22'	29° 3'	24°23'	16°11'	3°29'	1°16'	5°20'	26°D28	27°46'	21° 5'	20°37'	19°20'	2°56'	T 8
F 9	23 9 54	15°45'20"	12 ^h 11 ^m	28°25'	24° 6'	16°49'	3°36'	1°22'	5°21'	26°28'	27°48'	20°55'	20°34'	19°27'	2°R56	F 9
S 10	23 13 51	16°43'38"	26°35'	27°40'	23°51'	17°27'	3°43'	1°28'	5°23'	26°28'	27°50'	20°46'	20°31'	19°34'	2°56'	S 10
S 11	23 17 47	17°41'58"	10 ^h 30 ^m	26°50'	23°38'	18° 5'	3°50'	1°34'	5°24'	26°28'	27°52'	20°40'	20°28'	19°40'	2°56'	S 11
M12	23 21 44	18°40'19"	23°56'	25°56'	23°28'	18°43'	3°57'	1°40'	5°25'	26°28'	27°54'	20°36'	20°24'	19°47'	2°56'	M12
T 13	23 25 41	19°38'42"	6 ^h 54 ^m	24°58'	23°21'	19°21'	4° 5'	1°46'	5°27'	26°28'	27°56'	20°35'	20°21'	19°54'	2°55'	T 13
W14	23 29 37	20°37'07"	19°29'	23°57'	23°15'	19°59'	4°12'	1°52'	5°28'	26°28'	27°58'	20°35'	20°18'	20° 0'	2°55'	W14
T 15	23 33 34	21°35'33"	1 ^h 34 ^m	22°55'	23°12'	20°37'	4°20'	1°58'	5°30'	26°28'	28° 0'	20°34'	20°15'	20° 7'	2°55'	T 15
F 16	23 37 30	22°34'01"	13°47'	21°53'	23°D12	21°14'	4°28'	2° 4'	5°32'	26°29'	28° 2'	20°33'	20°12'	20°14'	2°54'	F 16
S 17	23 41 27	23°32'31"	25°41'	20°53'	23°14'	21°52'	4°36'	2°10'	5°33'	26°29'	28° 4'	20°30'	20° 8'	20°21'	2°54'	S 17
S 18	23 45 23	24°31'02"	7 ^h 31 ^m	19°55'	23°18'	22°30'	4°44'	2°16'	5°35'	26°29'	28° 6'	20°24'	20° 5'	20°27'	2°53'	S 18
M19	23 49 20	25°29'35"	19°21'	19° 2'	23°24'	23° 7'	4°52'	2°22'	5°37'	26°30'	28° 8'	20°16'	20° 2'	20°34'	2°53'	M19
T 20	23 53 16	26°28'09"	1 ^h 15 ^m	18°15'	23°33'	23°45'	5° 1'	2°29'	5°39'	26°30'	28°10'	20° 4'	19°59'	20°41'	2°52'	T 20
W21	23 57 13	27°26'45"	13°14'	17°35'	23°44'	24°23'	5° 9'	2°35'	5°40'	26°30'	28°12'	19°51'	19°56'	20°47'	2°51'	W21
T 22	0 1 10	28°25'24"	25°20'	17° 3'	23°56'	25° 0'	5°18'	2°41'	5°42'	26°31'	28°14'	19°38'	19°53'	20°54'	2°50'	T 22
F 23	0 5 6	29°24'04"	7 ^h 35 ^m	16°40'	24°11'	25°38'	5°26'	2°48'	5°44'	26°31'	28°17'	19°24'	19°49'	21° 1'	2°49'	F 23
S 24	0 9 3	0 ^h 22 ^m 46 ^s	19°58'	16°27'	24°28'	26°15'	5°35'	2°54'	5°46'	26°32'	28°19'	19°12'	19°46'	21° 7'	2°48'	S 24
S 25	0 12 59	1°21'30"	2 ^h 31 ^m	16°D23	24°47'	26°53'	5°44'	3° 1'	5°48'	26°32'	28°21'	19° 2'	19°43'	21°14'	2°47'	S 25
M26	0 16 56	2°20'17"	15°14'	16°29'	25° 8'	27°30'	5°53'	3° 7'	5°50'	26°33'	28°23'	18°56'	19°40'	21°21'	2°46'	M26
T 27	0 20 52	3°19'05"	28° 9'	16°46'	25°31'	28° 8'	6° 2'	3°14'	5°52'	26°33'	28°25'	18°52'	19°37'	21°28'	2°45'	T 27
W28	0 24 49	4°17'56"	11 ^h 17 ^m	17°12'	25°55'	28°45'	6°12'	3°20'	5°55'	26°34'	28°28'	18°50'	19°34'	21°34'	2°44'	W28
T 29	0 28 45	5°16'50"	24°40'	17°47'	26°21'	29°22'	6°21'	3°27'	5°57'	26°35'	28°30'	18°D50	19°30'	21°41'	2°43'	T 29
F 30	0 32 42	6 ^h 15 ^m 45 ^s	8 ^h 02 ^m	18 ^h 31 ^m	26 ^h 04 ^m 49 ^s	29 ^h 02 ^m 59 ^s	6 ^h 31 ^m	3 ^h 33 ^m	5 ^h 59 ^m	26 ^h 35 ^m	28 ^h 32 ^m	18°R50	19 ^h 27 ^m	21 ^h 48 ^m	2 ^h 41 ^m	F 30

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T 1	8n34	21n55	0s38	3s52	3s55	4n27	8s26	18n20	1n 7	20s 8	0n35	9s32	2n18	21s 6	0n 5	22s10	1n14	4n54	16n35	23n11	23n 8	19s24	17n18	3s30		
F 2	8 13	24 0	0n35	3 59	4 2	4 40	8 23	18 10	1 7	20 9	0 35	9 34	2 18	21 6	0 5	22 10	1 14	4 53	16 35	23 11	23 8	19 22	17 18	3 31		
S 3	7 51	24 38	1 47	4 4	4 7	4 53	8 19	18 0	1 8	20 11	0 35	9 36	2 17	21 6	0 5	22 10	1 14	4 52	16 34	23 11	23 8	19 20	17 18	3 31		
S 4	7 29	23 37	2 55	4 6	4 12	5 6	8 15	17 49	1 8	20 12	0 35	9 39	2 17	21 6	0 5	22 10	1 14	4 51	16 34	23 11	23 7	19 19	17 17	3 31		
M 5	7 7	20 55	3 52	4 4	4 16	5 19	8 10	17 38	1 8	20 14	0 34	9 41	2 17	21 6	0 5	22 10	1 14	4 50	16 34	23 11	23 7	19 17	17 17	3 32		
T 6	6 44	16 46	4 34	3 58	4 18	5 32	8 5	17 27	1 9	20 15	0 34	9 43	2 17	21 7	0 5	22 10	1 13	4 49	16 33	23 10	23 7	19 15	17 17	3 32		
W 7	6 22	11 31	4 57	3 48	4 19	5 45	7 59	17 16	1 9	20 16	0 34	9 45	2 17	21 7	0 5	22 10	1 13	4 48	16 33	23 9	23 7	19 14	17 17	3 32		
T 8	6 0	5 37	4 59	3 35	4 19	5 58	7 52	17 5	1 9	20 18	0 34	9 47	2 17	21 7	0 5	22 10	1 13	4 47	16 32	23 9	23 7	19 12	17 16	3 32		
F 9	5 37	0s31	4 40	3 18	4 17	6 11	7 45	16 54	1 10	20 19	0 34	9 49	2 16	21 7	0 5	22 10	1 13	4 46	16 32	23 8	23 6	19 10	17 16	3 33		
S 10	5 14	6 27	4 4	2 57	4 13	6 23	7 37	16 43	1 10	20 21	0 33	9 51	2 16	21 8	0 5	22 10	1 13	4 45	16 32	23 7	23 6	19 9	17 16	3 33		
S 11	4 52	11 53	3 15	2 32	4 8	6 34	7 29	16 32	1 11	20 22	0 33	9 53	2 16	21 8	0 4	22 10	1 13	4 44	16 31	23 7	23 6	19 7	17 15	3 33		
M12	4 29	16 34	2 16	2 4	4 0	6 46	7 20	16 20	1 11	20 24	0 33	9 56	2 16	21 8	0 4	22 11	1 13	4 43	16 31	23 7	23 6	19 5	17 15	3 34		
T 13	4 6	20 17	1 12	1 32	3 51	6 57	7 11	16 9	1 11	20 26	0 33	9 58	2 16	21 8	0 4	22 11	1 13	4 42	16 31	23 6	23 5	19 3	17 15	3 34		
W14	3 43	22 56	0 6	0 58	3 40	7 7	7 2	15 57	1 12	20 27	0 33	10 0	2 16	21 9	0 4	22 11	1 13	4 41	16 30	23 6	23 5	19 2	17 14	3 34		
T 15	3 20	24 25	0s59	0 21	3 27	7 17	6 52	15 45	1 12	20 29	0 33	10 2	2 15	21 9	0 4	22 11	1 13	4 40	16 30	23 6	23 5	19 0	17 14	3 35		
F 16	2 57	24 42	1 59	0n17	3 12	7 27	6 42	15 34	1 12	20 30	0 32	10 4	2 15	21 9	0 4	22 11	1 13	4 39	16 29	23 6	23 5	18 58	17 13	3 35		
S 17	2 34	23 52	2 54	0 56	2 55	7 36	6 32	15 22	1 13	20 32	0 32	10 7	2 15	21 10	0 4	22 11	1 13	4 38	16 29	23 6	23 5	18 56	17 13	3 35		
S 18	2 11	21 57	3 41	1 35	2 38	7 44	6 22	15 10	1 13	20 34	0 32	10 9	2 15	21 10	0 4	22 11	1 13	4 37	16 29	23 6	23 4	18 55	17 13	3 36		
M19	1 47	19 6	4 18	2 13	2 19	7 52	6 12	14 58	1 13	20 35	0 32	10 11	2 15	21 10	0 4	22 11	1 13	4 36	16 29	23 5	23 4	18 53	17 12	3 36		
T 20	1 24	15 27	4 44	2 49	1 59	7 59	6 1	14 46	1 13	20 37	0 32	10 13	2 15	21 11	0 4	22 11	1 13	4 35	16 28	23 4	23 4	18 51	17 12	3 36		
W21	1 1	11 10	4 58	3 23	1 39	8 5	5 51	14 33	1 14	20 39	0 31	10 16	2 15	21 11	0 4	22 11	1 13	4 34	16 28	23 3	23 4	18 49	17 11	3 37		
T 22	0 38	6 25	4 58	3 54	1 19	8 11	5 40	14 21	1 14	20 40	0 31	10 18	2 14	21 11	0 4	22 11	1 13	4 33	16 28	23 2	23 3	18 48	17 11	3 37		
F 23	0 14	1 21	4 45	4 21	0 59	8 16	5 30	14 9	1 14	20 42	0 31	10 20	2 14	21 12	0 4	22 11	1 13	4 32	16 27	23 1	23 3	18 46	17 10	3 37		
S 24	0s 9	3n49	4 18	4 44	0 40	8 21	5 19	13 56	1 15	20 44	0 31	10 23	2 14	21 12	0 4	22 11	1 13	4 31	16 27	23 0	23 3	18 44	17 10	3 38		
S 25	0 32	8 55	3 39	5 3	0 21	8 25	5 8	13 44	1 15	20 46	0 31	10 25	2 14	21 12	0 4	22 11	1 13	4 30	16 27	22 59	23 3	18 42	17 9	3 38		
M26	0 56	13 44	2 48	5 17	0 3	8 28	4 58	13 31	1 15	20 47	0 31	10 27	2 14	21 13	0 4	22 11	1 13	4 30	16 27	22 59	23 2	18 41	17 9	3 38		
T 27	1 19	18 0	1 47	5 26	0n13	8 30	4 47	13 19	1 16	20 49	0 30	10 30	2 14	21 13	0 4	22 11	1 12	4 29	16 26	22 58	23 2	18 39	17 8	3 38		
W28	1 43	21 29	0 40	5 30	0 29	8 32	4 37	13 6	1 16	20 51	0 30	10 32	2 14	21 14	0 4	22 11	1 12	4 28	16 26	22 58	23 2	18 37	17 8	3 39		
T 29	2 6	23 51	0n31	5 30	0 43	8 33	4 26	12 53	1 16	20 53	0 30	10 34	2 14	21 14	0 4	22 12	1 12	4 27	16 26	22 58	23 2	18 35	17 7	3 39		
F 30	2s29	24n52	1n42	5n24	0m57	8n34	4s16	12n40	1n17	20s54	0n30	10s37	2n14	21s14	0n 4	22s12	1n12	4n26	16n26	22n58	23n 1	18s33	17n 7	3s39		

ASTRODIENST EPHEMERIS for the year 1983

geocentric

OCTOBER 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 36 39	7♏14'43	22♏21	19♏24	27♏18	0♏37	6♏40	3♏40	6♏1	26♏36	28♏34	18°R49	19♏24	21♏54	2°R40	S 1
S 2	0 40 35	8°13'44	6♏39	20°24	27°49	1°14	6°50	3°47	6°4	26°37	28°37	18♏46	19°21	22°1	2♏38	S 2
M 3	0 44 32	9°12'46	21°14	21°31	28°21	1°52	7°0	3°54	6°6	26°38	28°39	18°41	19°18	22°8	2°37	M 3
T 4	0 48 28	10°11'51	6♏2	22°45	28°55	2°29	7°10	4°1	6°9	26°39	28°41	18°33	19°14	22°15	2°35	T 4
W 5	0 52 25	11°10'58	20°54	24°4	29°30	3°6	7°20	4°8	6°11	26°39	28°44	18°24	19°11	22°21	2°34	W 5
T 6	0 56 21	12°10'07	5♏44	25°28	0♏7	3°43	7°30	4°14	6°14	26°40	28°46	18°13	19°8	22°28	2°32	T 6
F 7	1 0 18	13°9'18	20°22	26°55	0°45	4°20	7°40	4°21	6°16	26°41	28°48	18°4	19°5	22°35	2°30	F 7
S 8	1 4 14	14°8'31	4♏40	28°27	1°23	4°57	7°51	4°28	6°19	26°42	28°51	17°55	19°2	22°41	2°29	S 8
S 9	1 8 11	15°7'47	18°34	0♏1	2°4	5°34	8°1	4°35	6°21	26°43	28°53	17°49	18°59	22°48	2°27	S 9
M10	1 12 8	16°7'04	2♏1	1°38	2°45	6°11	8°12	4°42	6°24	26°44	28°55	17°46	18°55	22°55	2°25	M10
T 11	1 16 4	17°6'23	15°2	3°17	3°27	6°48	8°22	4°49	6°27	26°45	28°58	17°D45	18°52	23°1	2°23	T 11
W12	1 20 1	18°5'44	27°40	4°57	4°10	7°25	8°33	4°56	6°29	26°46	29°0	17°45	18°49	23°8	2°21	W12
T 13	1 23 57	19°5'06	9♏59	6°38	4°55	8°2	8°44	5°3	6°32	26°47	29°3	17°46	18°46	23°15	2°19	T 13
F 14	1 27 54	20°4'31	22°3	8°21	5°40	8°39	8°55	5°10	6°35	26°48	29°5	17°R46	18°43	23°22	2°17	F 14
S 15	1 31 50	21°3'57	3♏58	10°4	6°26	9°16	9°6	5°17	6°38	26°50	29°7	17°45	18°40	23°28	2°14	S 15
S 16	1 35 47	22°3'25	15°49	11°47	7°14	9°52	9°17	5°24	6°41	26°51	29°10	17°42	18°36	23°35	2°12	S 16
M17	1 39 43	23°2'54	27°41	13°31	8°2	10°29	9°28	5°32	6°43	26°52	29°12	17°37	18°33	23°42	2°10	M17
T 18	1 43 40	24°2'26	9♏37	15°14	8°51	11°6	9°39	5°39	6°46	26°53	29°15	17°29	18°30	23°48	2°8	T 18
W19	1 47 37	25°1'59	21°42	16°58	9°40	11°43	9°50	5°46	6°49	26°54	29°17	17°20	18°27	23°55	2°5	W19
T 20	1 51 33	26°1'34	3♏57	18°41	10°31	12°19	10°2	5°53	6°52	26°56	29°19	17°10	18°24	24°2	2°3	T 20
F 21	1 55 30	27°1'11	16°24	20°24	11°22	12°56	10°13	6°0	6°55	26°57	29°22	17°1	18°20	24°9	2°0	F 21
S 22	1 59 26	28°0'50	29°3	22°7	12°14	13°32	10°25	6°7	6°58	26°58	29°24	16°52	18°17	24°15	1°58	S 22
S 23	2 3 23	29°0'31	11♏54	23°49	13°7	14°9	10°36	6°15	7°1	27°0	29°27	16°46	18°14	24°22	1°55	S 23
M24	2 7 19	0♏14	24°58	25°31	14°0	14°45	10°48	6°22	7°5	27°1	29°29	16°41	18°11	24°29	1°53	M24
T 25	2 11 16	1°0'00	8♏13	27°13	14°54	15°22	11°0	6°29	7°8	27°3	29°31	16°39	18°8	24°35	1°50	T 25
W26	2 15 12	1°59'47	21°38	28°54	15°49	15°58	11°12	6°36	7°11	27°4	29°34	16°D39	18°5	24°42	1°47	W26
T 27	2 19 9	2°59'37	5♏15	0♏34	16°44	16°35	11°24	6°43	7°14	27°6	29°36	16°40	18°1	24°49	1°45	T 27
F 28	2 23 6	3°59'29	19°3	2°14	17°40	17°11	11°36	6°51	7°17	27°7	29°39	16°41	17°58	24°56	1°42	F 28
S 29	2 27 2	4°59'23	3♏1	3°54	18°37	17°47	11°48	6°58	7°20	27°9	29°41	16°R42	17°55	25°2	1°39	S 29
S 30	2 30 59	5°59'19	17°10	5°33	19°34	18°24	12°0	7°5	7°24	27°10	29°44	16°41	17°52	25°9	1°36	S 30
M31	2 34 55	6♏59'18	1♏28	7♏11	20♏32	19♏0	12♏12	7♏15	7♏27	27♏12	29♏46	16♏39	17♏49	25♏16	1♏34	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	2s53	24n21	2n48	5n15	1n8	8n34	4s5	12n27	1n17	20s56	0n30	10s39	2n13	21s15	0n4	22s12
S 2	3 16	22 14	3 45	5 0	1 19	8 33	3 55	12 14	1 17	20 58	0 30	10 41	2 13	21 15	0 4	22 12
M 3	3 39	18 40	4 29	4 42	1 28	8 31	3 45	12 1	1 18	21 0	0 29	10 44	2 13	21 16	0 4	22 12
T 4	4 2	13 52	4 55	4 20	1 35	8 29	3 35	11 48	1 18	21 2	0 29	10 46	2 13	21 16	0 4	22 12
W 5	4 25	8 14	5 2	3 55	1 42	8 27	3 25	11 35	1 18	21 3	0 29	10 48	2 13	21 16	0 4	22 12
T 6	4 49	2 8	4 49	3 27	1 47	8 23	3 15	11 22	1 19	21 5	0 29	10 51	2 13	21 17	0 4	22 12
F 7	5 12	4s0	4 16	2 55	1 51	8 19	3 6	11 9	1 19	21 7	0 29	10 53	2 13	21 17	0 4	22 12
S 8	5 35	9 48	3 28	2 46	1 54	8 14	2 56	10 55	1 19	21 9	0 29	10 56	2 13	21 18	0 4	22 12
S 9	5 58	14 58	2 29	1 22	1 56	8 9	2 47	10 42	1 19	21 11	0 29	10 58	2 13	21 18	0 4	22 12
M10	6 20	19 13	1 23	1 9	1 57	8 3	2 37	10 29	1 20	21 13	0 28	11 0	2 13	21 19	0 4	22 12
T 11	6 43	22 22	0 14	0 29	1 57	7 56	2 28	10 15	1 20	21 14	0 28	11 3	2 13	21 19	0 4	22 12
W12	7 6	24 18	0s53	0s11	1 57	7 49	2 19	10 2	1 20	21 16	0 28	11 5	2 12	21 20	0 4	22 12
T 13	7 28	25 0	1 56	0 52	1 55	7 42	2 10	9 48	1 21	21 18	0 28	11 8	2 12	21 20	0 4	22 12
F 14	7 51	24 29	2 53	1 34	1 53	7 33	2 1	9 35	1 21	21 20	0 28	11 10	2 12	21 21	0 4	22 13
S 15	8 13	22 51	3 41	2 17	1 51	7 24	1 53	9 21	1 21	21 22	0 28	11 12	2 12	21 21	0 4	22 13
S 16	8 36	20 14	4 20	3 1	1 48	7 15	1 44	9 7	1 21	21 23	0 28	11 15	2 12	21 22	0 4	22 13
M17	8 58	16 47	4 48	3 44	1 44	7 5	1 36	8 54	1 22	21 25	0 27	11 17	2 12	21 22	0 4	22 13
T 18	9 20	12 38	5 3	4 28	1 40	6 54	1 27	8 40	1 22	21 27	0 27	11 20	2 12	21 23	0 4	22 13
W19	9 41	7 58	5 5	5 12	1 35	6 43	1 19	8 26	1 22	21 29	0 27	11 22	2 12	21 23	0 4	22 13
T 20	10 3	2 55	4 53	5 56	1 31	6 31	1 11	8 13	1 23	21 31	0 27	11 25	2 12	21 24	0 4	22 13
F 21	10 25	2n20	4 27	6 39	1 25	6 19	1 4	7 59	1 23	21 33	0 27	11 27	2 12	21 24	0 4	22 13
S 22	10 46	7 35	3 48	7 23	1 20	6 7	0 56	7 45	1 23	21 34	0 27	11 29	2 12	21 25	0 4	22 13
S 23	11 7	12 37	2 56	8 6	1 14	5 53	0 48	7 31	1 23	21 36	0 27	11 32	2 12	21 25	0 4	22 13
M24	11 28	17 10	1 54	8 48	1 8	5 40	0 41	7 17	1 24	21 38	0 26	11 34	2 12	21 26	0 4	22 13
T 25	11 49	20 56	0 45	9 31	1 2	5 26	0 34	7 3	1 24	21 40	0 26	11 36	2 12	21 26	0 4	22 13
W26	12 10	23 38	0n27	10 12	0 56	5 11	0 27	6 50	1 24	21 41	0 26	11 39	2 12	21 27	0 4	22 13
T 27	12 31	24 59	1 39	10 54	0 50	4 56	0 20	6 36	1 24	21 43	0 26	11 41	2 12	21 27	0 4	22 13
F 28	12 51	24 50	2 46	11 34	0 43	4 40	0 13	6 22	1 25	21 45	0 26	11 44	2 12	21 28	0 4	22 14
S 29	13 11	23 8	3 45	12 14	0 37	4 24	0 6	6 8	1 25	21 47	0 26	11 46	2 12	21 28	0 4	22 14
S 30	13 31	19 59	4 30	12 54	0 30	4 8	0n0	5 54	1 25	21 48	0 26	11 48	2 12	21 29	0 4	22 14
M31	13s51	15n37	4n59	13s32	0n24	3n51	0n6	5n40	1n26	21s50	0n26	11s51	2n12	21s30	0n4	22s14

Julian Day Number = 2445608.5, Delta T = 53.59 sec
 Ecliptic obliquity = 23°26'31, Nutation = - 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°30'48, Lahiri = 23°37'48

ASTRODIENST EPHEMERIS for the year 1983

geocentric

NOVEMBER 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 38 52	7♈59°19	15♏52	8♈49	21♏30	19♏36	12♏24	7♈20	7♏30	27♏13	29♏48	16♏R35	17♏II45	25♏22	1°R31	T 1
W 2	2 42 48	8°59'21	0♏18	10°27	22°29	20°12	12°37	7°27	7°34	27°15	29°51	16♏II30	17°42	25°29	1°II28	W 2
T 3	2 46 45	9°59'26	14°40	12° 4	23°28	20°48	12°49	7°34	7°37	27°17	29°53	16°24	17°39	25°36	1°25	T 3
F 4	2 50 41	10°59'33	28°54	13°41	24°27	21°24	13° 1	7°41	7°40	27°18	29°56	16°18	17°36	25°43	1°22	F 4
S 5	2 54 38	11°59'42	12♈53	15°17	25°27	22° 0	13°14	7°49	7°44	27°20	29°58	16°13	17°33	25°49	1°19	S 5
S 6	2 58 34	12°59'53	26°33	16°53	26°28	22°36	13°26	7°56	7°47	27°22	0♈ 0	16°10	17°30	25°56	1°16	S 6
M 7	3 2 31	14° 0'05	9♏53	18°28	27°29	23°12	13°39	8° 3	7°51	27°24	0° 3	16°D 9	17°26	26° 3	1°13	M 7
T 8	3 6 28	15° 0'20	22°51	20° 3	28°30	23°48	13°52	8°10	7°54	27°25	0° 5	16° 9	17°23	26° 9	1°10	T 8
W 9	3 10 24	16° 0'35	5♏39	21°37	29°32	24°24	14° 4	8°17	7°58	27°27	0° 7	16°10	17°20	26°16	1° 7	W 9
T 10	3 14 21	17° 0'53	17°49	23°12	0♏34	25° 0	14°17	8°25	8° 1	27°29	0°10	16°12	17°17	26°23	1° 3	T 10
F 11	3 18 17	18° 1'12	29°55	24°46	1°37	25°36	14°30	8°32	8° 5	27°31	0°12	16°13	17°14	26°30	1° 0	F 11
S 12	3 22 14	19° 1'32	11♏52	26°19	2°39	26°11	14°43	8°39	8° 8	27°33	0°14	16°14	17°11	26°36	0°57	S 12
S 13	3 26 10	20° 1'54	23°44	27°52	3°43	26°47	14°55	8°46	8°12	27°35	0°17	16°R15	17° 7	26°43	0°54	S 13
M14	3 30 7	21° 2'17	5♏37	29°25	4°46	27°23	15° 8	8°53	8°15	27°37	0°19	16°14	17° 4	26°50	0°51	M14
T 15	3 34 4	22° 2'41	17°34	0♏58	5°50	27°58	15°21	9° 0	8°19	27°38	0°21	16°11	17° 1	26°56	0°47	T 15
W16	3 38 0	23° 3'07	29°41	2°31	6°54	28°34	15°34	9° 7	8°22	27°40	0°24	16° 8	16°58	27° 3	0°44	W16
T 17	3 41 57	24° 3'34	12♏Y 1	4° 3	7°59	29° 9	15°47	9°15	8°26	27°42	0°26	16° 5	16°55	27°10	0°41	T 17
F 18	3 45 53	25° 4'03	24°37	5°35	9° 3	29°45	16° 1	9°22	8°30	27°44	0°28	16° 1	16°51	27°17	0°38	F 18
S 19	3 49 50	26° 4'33	7♏29	7° 6	10° 9	0♏20	16°14	9°29	8°33	27°46	0°30	15°58	16°48	27°23	0°35	S 19
S 20	3 53 46	27° 5'04	20°39	8°38	11°14	0°55	16°27	9°36	8°37	27°48	0°33	15°56	16°45	27°30	0°31	S 20
M21	3 57 43	28° 5'37	4♏ 5	10° 9	12°20	1°31	16°40	9°43	8°41	27°50	0°35	15°55	16°42	27°37	0°28	M21
T 22	4 1 39	29° 6'12	17°46	11°40	13°26	2° 6	16°53	9°50	8°44	27°52	0°37	15°D54	16°39	27°43	0°25	T 22
W23	4 5 36	0♏ 6'48	1♏39	13°10	14°32	2°41	17° 6	9°57	8°48	27°54	0°39	15°55	16°36	27°50	0°21	W23
T 24	4 9 33	1° 7'26	15°40	14°40	15°38	3°16	17°20	10° 4	8°51	27°56	0°41	15°56	16°32	27°57	0°18	T 24
F 25	4 13 29	2° 8'06	29°49	16°10	16°45	3°51	17°33	10°11	8°55	27°59	0°44	15°57	16°29	28° 4	0°15	F 25
S 26	4 17 26	3° 8'47	14♏ 0	17°40	17°52	4°26	17°46	10°17	8°59	28° 1	0°46	15°58	16°26	28°10	0°12	S 26
S 27	4 21 22	4° 9'29	28°12	19° 9	18°59	5° 1	18° 0	10°24	9° 2	28° 3	0°48	15°R58	16°23	28°17	0° 8	S 27
M28	4 25 19	5°10'14	12♏23	20°38	20° 6	5°36	18°13	10°31	9° 6	28° 5	0°50	15°58	16°20	28°24	0° 5	M28
T 29	4 29 15	6°10'59	26°31	22° 7	21°14	6°11	18°27	10°38	9°10	28° 7	0°52	15°58	16°17	28°30	0° 2	T 29
W30	4 33 12	7♏11'47	10♏33	23♏35	22♏22	6♏46	18♏40	10♏45	9♏14	28♏ 9	0♏54	15♏I57	16♏II13	28♏37	29♏59	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	14s10	10n20	5n10	14s10	0n17	3n34	0n12	5n26	1n26	21s52	0n25	11s53	2n12	21s30	0n 4	T 1
W 2	14 30	4 29	5 1	14 48	0 10	3 16	0 19	5 12	1 26	21 54	0 25	11 55	2 12	21 31	0 4	W 2
T 3	14 49	1s35	4 34	15 24	0 3	2 58	0 24	4 58	1 26	21 55	0 25	11 58	2 12	21 31	0 4	T 3
F 4	15 8	7 31	3 49	16 0	0s 3	2 40	0 30	4 44	1 27	21 57	0 25	12 0	2 12	21 32	0 4	F 4
S 5	15 26	12 59	2 51	16 35	0 10	2 21	0 36	4 30	1 27	21 59	0 25	12 2	2 12	21 32	0 4	S 5
S 6	15 44	17 41	1 45	17 9	0 17	2 2	0 41	4 16	1 27	22 0	0 25	12 5	2 12	21 33	0 4	S 6
M 7	16 3	21 22	0 34	17 42	0 23	1 43	0 46	4 2	1 27	22 2	0 25	12 7	2 12	21 33	0 4	M 7
T 8	16 20	23 51	0s37	18 14	0 30	1 23	0 52	3 48	1 28	22 4	0 25	12 9	2 12	21 34	0 4	T 8
W 9	16 38	25 4	1 44	18 46	0 37	1 3	0 57	3 34	1 28	22 5	0 24	12 12	2 12	21 35	0 4	W 9
T 10	16 55	24 59	2 45	19 16	0 43	0 43	1 1	3 20	1 28	22 7	0 24	12 14	2 12	21 35	0 4	T 10
F 11	17 12	23 42	3 37	19 45	0 49	0 22	1 6	3 6	1 28	22 8	0 24	12 16	2 12	21 36	0 4	F 11
S 12	17 29	21 23	4 19	20 14	0 56	0 1	1 11	2 52	1 29	22 10	0 24	12 18	2 12	21 36	0 4	S 12
S 13	17 45	18 10	4 50	20 41	1 2	0s20	1 15	2 38	1 29	22 12	0 24	12 21	2 12	21 37	0 4	S 13
M14	18 1	14 14	5 9	21 8	1 8	0 41	1 19	2 24	1 29	22 13	0 24	12 23	2 12	21 37	0 4	M14
T 15	18 17	9 44	5 14	21 33	1 14	1 2	1 23	2 10	1 29	22 15	0 24	12 25	2 12	21 38	0 4	T 15
W16	18 32	4 47	5 5	21 58	1 19	1 24	1 27	1 56	1 30	22 16	0 24	12 27	2 12	21 39	0 4	W16
T 17	18 47	0n25	4 43	22 21	1 25	1 46	1 31	1 43	1 30	22 18	0 24	12 30	2 12	21 39	0 4	T 17
F 18	19 2	5 43	4 6	22 43	1 31	2 8	1 35	1 29	1 30	22 19	0 23	12 32	2 12	21 40	0 4	F 18
S 19	19 16	10 55	3 16	23 4	1 36	2 31	1 38	1 15	1 30	22 21	0 23	12 34	2 12	21 40	0 4	S 19
S 20	19 31	15 45	2 15	23 24	1 41	2 53	1 42	1 1	1 30	22 22	0 23	12 36	2 12	21 41	0 4	S 20
M21	19 44	19 54	1 5	23 43	1 46	3 16	1 45	0 47	1 31	22 23	0 23	12 38	2 12	21 41	0 4	M21
T 22	19 58	23 3	0n10	24 1	1 50	3 38	1 48	0 33	1 31	22 25	0 23	12 40	2 12	21 42	0 4	T 22
W23	20 11	24 52	1 26	24 17	1 55	4 1	1 51	0 20	1 31	22 26	0 23	12 43	2 12	21 43	0 4	W23
T 24	20 23	25 7	2 37	24 32	1 59	4 24	1 54	0 6	1 31	22 28	0 23	12 45	2 12	21 43	0 4	T 24
F 25	20 35	23 46	3 40	24 46	2 3	4 47	1 57	0s 8	1 32	22 29	0 23	12 47	2 12	21 44	0 4	F 25
S 26	20 47	20 55	4 29	24 58	2 7	5 10	1 59	0 21	1 32	22 30	0 23	12 49	2 12	21 44	0 4	S 26
S 27	20 59	16 48	5 1	25 9	2 10	5 34	2 2	0 35	1 32	22 32	0 22	12 51	2 12	21 45	0 4	S 27
M28	21 10	11 46	5 16	25 19	2 13	5 57	2 4	0 49	1 32	22 33	0 22	12 53	2 12	21 46	0 4	M28
T 29	21 21	6 9	5 11	25 28	2 16	6 20	2 6	1 2	1 32	22 34	0 22	12 55	2 12	21 46	0 4	T 29
W30	21s31	0n14	4n48	25s35	2s18	6s43	2n 8	1s16	1n33	22s35	0n22	12s57	2n13	21s47	0n 4	W30

Julian Day Number = 2445639.5, Delta T = 53.66 sec

Ecliptic obliquity = 23°26'31", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°30'52", Lahiri = 23°37'52"

ASTRODIENST EPHEMERIS for the year 1983

geocentric

DECEMBER 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 37 8	8♂12'36	24♂27	25♂2	23♂30	7♂20	18♂54	10♂51	9♂17	28♂11	0♂56	15°R56	16♂10	28♂44	29°R55	T 1
F 2	4 41 5	9°13'26	8♂10	26°29	24°38	7°55	19° 7	10°58	9°21	28°13	0°58	15♂55	16° 7	28°51	29♂52	F 2
S 3	4 45 2	10°14'18	21°42	27°55	25°47	8°30	19°21	11° 5	9°25	28°16	1° 0	15°54	16° 4	28°57	29°49	S 3
S 4	4 48 58	11°15'11	5♂ 0	29°20	26°55	9° 4	19°34	11°11	9°28	28°18	1° 2	15°54	16° 1	29° 4	29°46	S 4
M 5	4 52 55	12°16'05	18° 2	0♂44	28° 4	9°38	19°48	11°18	9°32	28°20	1° 4	15°D54	15°57	29°11	29°42	M 5
T 6	4 56 51	13°17'00	0♂49	2° 7	29°13	10°13	20° 1	11°24	9°36	28°22	1° 6	15°54	15°54	29°17	29°39	T 6
W 7	5 0 48	14°17'57	13°20	3°29	0♂22	10°47	20°15	11°31	9°39	28°24	1° 8	15°54	15°51	29°24	29°36	W 7
T 8	5 4 44	15°18'54	25°37	4°49	1°32	11°21	20°28	11°37	9°43	28°27	1°10	15°54	15°48	29°31	29°33	T 8
F 9	5 8 41	16°19'51	7♂43	6° 7	2°41	11°56	20°42	11°44	9°47	28°29	1°12	15°R54	15°45	29°38	29°30	F 9
S 10	5 12 37	17°20'50	19°40	7°23	3°51	12°30	20°56	11°50	9°50	28°31	1°13	15°54	15°42	29°44	29°27	S 10
S 11	5 16 34	18°21'49	1♂32	8°36	5° 1	13° 4	21° 9	11°56	9°54	28°33	1°15	15°54	15°38	29°51	29°24	S 11
M12	5 20 31	19°22'49	13°25	9°47	6°10	13°38	21°23	12° 3	9°58	28°36	1°17	15°54	15°35	29°58	29°21	M12
T 13	5 24 27	20°23'49	25°21	10°54	7°21	14°12	21°36	12° 9	10° 1	28°38	1°19	15°D54	15°32	0♂4	29°18	T 13
W14	5 28 24	21°24'50	7♂26	11°57	8°31	14°45	21°50	12°15	10° 5	28°40	1°21	15°54	15°29	0°11	29°15	W14
T 15	5 32 20	22°25'52	19°45	12°56	9°41	15°19	22° 4	12°21	10° 9	28°42	1°22	15°55	15°26	0°18	29°12	T 15
F 16	5 36 17	23°26'54	2♂22	13°50	10°52	15°53	22°17	12°27	10°12	28°45	1°24	15°55	15°23	0°25	29° 9	F 16
S 17	5 40 13	24°27'56	15°19	14°38	12° 2	16°26	22°31	12°33	10°16	28°47	1°26	15°56	15°19	0°31	29° 6	S 17
S 18	5 44 10	25°28'59	28°39	15°19	13°13	17° 0	22°45	12°39	10°19	28°49	1°27	15°57	15°16	0°38	29° 3	S 18
M19	5 48 6	26°30'03	12♂22	15°52	14°24	17°33	22°58	12°45	10°23	28°51	1°29	15°R57	15°13	0°45	29° 0	M19
T 20	5 52 3	27°31'07	26°25	16°18	15°35	18° 7	23°12	12°51	10°27	28°54	1°31	15°57	15°10	0°52	28°57	T 20
W21	5 56 0	28°32'11	10♂45	16°33	16°46	18°40	23°26	12°57	10°30	28°56	1°32	15°56	15° 7	0°58	28°55	W21
T 22	5 59 56	29°33'16	25°18	16°R39	17°57	19°13	23°39	13° 3	10°34	28°58	1°34	15°55	15° 3	1° 5	28°52	T 22
F 23	6 3 53	0♂34'22	9♂55	16°34	19° 8	19°46	23°53	13° 8	10°37	29° 0	1°35	15°53	15° 0	1°12	28°49	F 23
S 24	6 7 49	1°35'29	24°32	16°17	20°19	20°19	24° 6	13°14	10°41	29° 3	1°37	15°51	14°57	1°18	28°47	S 24
S 25	6 11 46	2°36'36	9♂ 2	15°49	21°31	20°52	24°20	13°19	10°44	29° 5	1°38	15°49	14°54	1°25	28°44	S 25
M26	6 15 42	3°37'43	23°20	15° 9	22°43	21°25	24°33	13°25	10°48	29° 7	1°39	15°48	14°51	1°32	28°42	M26
T 27	6 19 39	4°38'52	7♂25	14°18	23°54	21°58	24°47	13°30	10°51	29°10	1°41	15°D48	14°48	1°39	28°39	T 27
W28	6 23 35	5°40'01	21°14	13°16	25° 6	22°30	25° 1	13°36	10°55	29°12	1°42	15°49	14°44	1°45	28°37	W28
T 29	6 27 32	6°41'10	4♂49	12° 6	26°18	23° 3	25°14	13°41	10°58	29°14	1°43	15°50	14°41	1°52	28°34	T 29
F 30	6 31 29	7°42'20	18° 8	10°50	27°30	23°35	25°28	13°46	11° 2	29°16	1°45	15°52	14°38	1°59	28°32	F 30
S 31	6 35 25	8♂43'30	1♂14	9♂29	28♂42	24♂ 8	25♂41	13♂51	11♂ 5	29♂19	1♂46	15♂53	14♂35	2♂ 5	28♂30	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s41	5s38	4n 8	25s41	2s20	7s 7	2n10	1s29	1n33	22s37	0n22	12s59	2n13	21s47	0n 4	22s16
F 2	21 50	11 10	3 14	25 45	2 21	7 30	2 12	1 43	1 33	22 38	0 22	13 1	2 13	21 48	0 4	22 16
S 3	21 59	16 6	2 10	25 48	2 22	7 54	2 13	1 56	1 33	22 39	0 22	13 3	2 13	21 48	0 4	22 16
S 4	22 8	20 9	1 0	25 49	2 23	8 17	2 15	2 10	1 34	22 40	0 22	13 5	2 13	21 49	0 4	22 16
M 5	22 16	23 6	0s12	25 49	2 23	8 40	2 16	2 23	1 34	22 41	0 22	13 7	2 13	21 49	0 4	22 16
T 6	22 24	24 48	1 22	25 48	2 23	9 3	2 17	2 36	1 34	22 42	0 22	13 9	2 13	21 50	0 4	22 16
W 7	22 31	25 12	2 26	25 45	2 23	9 26	2 19	2 50	1 34	22 44	0 21	13 11	2 13	21 51	0 4	22 16
T 8	22 38	24 21	3 23	25 41	2 20	9 49	2 20	3 3	1 34	22 45	0 21	13 13	2 13	21 51	0 3	22 16
F 9	22 44	22 22	4 9	25 35	2 17	10 12	2 20	3 16	1 35	22 46	0 21	13 14	2 13	21 52	0 3	22 16
S 10	22 50	19 25	4 45	25 28	2 14	10 35	2 21	3 29	1 35	22 47	0 21	13 16	2 13	21 52	0 3	22 16
S 11	22 56	15 42	5 7	25 20	2 10	10 58	2 22	3 42	1 35	22 48	0 21	13 18	2 14	21 53	0 3	22 16
M12	23 1	11 24	5 17	25 10	2 6	11 20	2 22	3 55	1 35	22 49	0 21	13 20	2 14	21 53	0 3	22 16
T 13	23 6	6 38	5 13	24 59	2 0	11 43	2 23	4 8	1 35	22 50	0 21	13 22	2 14	21 54	0 3	22 16
W14	23 10	1 34	4 55	24 47	1 54	12 5	2 23	4 21	1 36	22 51	0 21	13 23	2 14	21 54	0 3	22 16
T 15	23 14	3n39	4 24	24 34	1 46	12 27	2 23	4 34	1 36	22 52	0 21	13 25	2 14	21 55	0 3	22 16
F 16	23 17	8 52	3 39	24 30	1 37	12 49	2 23	4 46	1 36	22 52	0 21	13 27	2 14	21 56	0 3	22 16
S 17	23 20	13 51	2 42	24 2	1 28	13 11	2 23	4 59	1 36	22 53	0 21	13 29	2 14	21 56	0 3	22 16
S 18	23 22	18 20	1 34	23 50	1 17	13 32	2 23	5 12	1 36	22 54	0 21	13 30	2 14	21 57	0 3	22 16
M19	23 24	21 57	0 20	23 34	1 4	13 53	2 23	5 24	1 36	22 55	0 20	13 32	2 14	21 57	0 3	22 16
T 20	23 25	24 21	0n58	23 17	0 51	14 14	2 22	5 37	1 37	22 56	0 20	13 33	2 15	21 58	0 3	22 16
W21	23 26	25 13	2 13	23 1	0 36	14 35	2 22	5 49	1 37	22 56	0 20	13 35	2 15	21 58	0 3	22 16
T 22	23 26	24 22	3 21	22 44	0 20	14 55	2 21	6 2	1 37	22 57	0 20	13 37	2 15	21 59	0 3	22 17
F 23	23 26	21 52	4 16	22 28	0 3	15 15	2 21	6 14	1 37	22 58	0 20	13 38	2 15	21 59	0 3	22 17
S 24	23 26	17 58	4 54	22 12	0n15	15 35	2 20	6 26	1 37	22 59	0 20	13 40	2 15	22 0	0 3	22 17
S 25	23 25	13 1	5 13	21 56	0 34	15 55	2 19	6 38	1 37	22 59	0 20	13 41	2 15	22 0	0 3	22 17
M26	23 24	7 26	5 13	21 41	0 54	16 14	2 18	6 51	1 38	23 0	0 20	13 43	2 15	22 1	0 3	22 17
T 27	23 22	1 33	4 54	21 27	1 14	16 32	2 17	7 3	1 38	23 1	0 20	13 44	2 16	22 1	0 3	22 17
W28	23 19	4s18	4 17	21 14	1 33	16 51	2 16	7 15	1 38	23 1	0 20	13 46	2 16	22 2	0 3	22 17
T 29	23 16	9 52	3 27	21 2	1 52	17 9	2 14	7 26	1 38	23 2	0 20	13 47	2 16	22 2	0 3	22 17
F 30	23 13	14 53	2 27	20 51	2 10	17 27	2 13	7 38	1 38	23 2	0 20	13 49	2 16	22 3	0 3	22 17
S 31	23s 9	19s 6	1n20	20s40	2n26	17s44	2n12	7s50	1n38	23s 3	0n19	13s50	2n16	22s 3	0n 3	22s17

Julian Day Number = 2445669.5, Delta T = 53.72 sec

Ecliptic obliquity = 23°26'31", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°30'56", Lahiri = 23°37'57"