



Astrodienst Ephemeris Tables for the year 1982

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 1982

geocentric

JANUARY 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 41 16	10 ³ 14'31	13 ¹ 18	22 ³ 31	8°R54	7 ¹ 3	6 ¹ 4	21 ¹ 27	2 ¹ 41	25 ¹ 9	26 ¹ 41	22 ² 28	23 ² 11	11 ¹ 2	18°R15	F 1
S 2	6 45 13	11°15'40	26°23	24° 8	8 ¹ 52	7°28	6°13	21°30	2°45	25°11	26°42	22°29	23° 8	11° 9	18°14	S 2
S 3	6 49 9	12°16'50	9 ¹ 47	25°44	8°48	7°52	6°22	21°33	2°48	25°13	26°43	22°R29	23° 5	11°16	18°12	S 3
M 4	6 53 6	13°17'59	23°33	27°19	8°41	8°16	6°30	21°36	2°51	25°15	26°44	22°29	23° 2	11°23	18°11	M 4
T 5	6 57 3	14°19'08	7 ¹ 41	28°54	8°32	8°39	6°38	21°39	2°54	25°18	26°45	22°29	22°58	11°29	18° 9	T 5
W 6	7 0 59	15°20'16	22° 9	0 ¹ 28	8°20	9° 3	6°47	21°41	2°57	25°20	26°46	22°28	22°55	11°36	18° 8	W 6
T 7	7 4 56	16°21'24	6 ¹ 55	2° 1	8° 6	9°25	6°55	21°44	3° 0	25°22	26°47	22°27	22°52	11°43	18° 7	T 7
F 8	7 8 52	17°22'32	21°52	3°33	7°49	9°48	7° 3	21°46	3° 3	25°24	26°48	22°27	22°49	11°49	18° 5	F 8
S 9	7 12 49	18°23'40	6 ¹ 52	5° 4	7°30	10°10	7°10	21°49	3° 5	25°26	26°48	22°26	22°46	11°56	18° 4	S 9
S 10	7 16 45	19°24'47	21°47	6°32	7° 9	10°32	7°18	21°51	3° 8	25°28	26°49	22°D26	22°43	12° 3	18° 3	S 10
M 11	7 20 42	20°25'54	6 ¹ 29	7°59	6°45	10°54	7°26	21°53	3°11	25°30	26°50	22°26	22°39	12° 9	18° 2	M 11
T 12	7 24 38	21°27'01	20°52	9°23	6°19	11°15	7°33	21°55	3°14	25°33	26°50	22°26	22°36	12°16	18° 1	T 12
W 13	7 28 35	22°28'07	4 ¹ 50	10°43	5°51	11°36	7°40	21°57	3°17	25°35	26°51	22°R26	22°33	12°23	18° 0	W 13
T 14	7 32 32	23°29'14	18°22	12° 0	5°21	11°57	7°47	21°59	3°19	25°37	26°52	22°26	22°30	12°29	17°59	T 14
F 15	7 36 28	24°30'20	1 ¹ 28	13°12	4°50	12°17	7°54	22° 1	3°22	25°39	26°52	22°26	22°27	12°36	17°58	F 15
S 16	7 40 25	25°31'26	14°11	14°20	4°17	12°37	8° 1	22° 3	3°25	25°41	26°53	22°26	22°23	12°43	17°58	S 16
S 17	7 44 21	26°32'31	26°33	15°21	3°43	12°57	8° 8	22° 4	3°27	25°43	26°53	22°D26	22°20	12°49	17°57	S 17
M 18	7 48 18	27°33'37	8 ¹ 41	16°16	3° 8	13°16	8°14	22° 6	3°30	25°45	26°54	22°26	22°17	12°56	17°56	M 18
T 19	7 52 14	28°34'42	20°37	17° 3	2°32	13°35	8°21	22° 7	3°32	25°47	26°54	22°26	22°14	13° 3	17°56	T 19
W 20	7 56 11	29°35'47	2 ¹ 28	17°41	1°55	13°53	8°27	22° 8	3°35	25°49	26°54	22°27	22°11	13° 9	17°55	W 20
T 21	8 0 7	0 ¹ 36'52	14°16	18°11	1°18	14°11	8°33	22° 9	3°37	25°51	26°55	22°28	22° 8	13°16	17°55	T 21
F 22	8 4 4	1°37'56	26° 7	18°30	0°41	14°29	8°39	22°10	3°40	25°53	26°55	22°29	22° 4	13°23	17°55	F 22
S 23	8 8 1	2°38'59	8 ¹ 3	18°R38	0° 4	14°46	8°45	22°11	3°42	25°55	26°55	22°30	22° 1	13°29	17°54	S 23
S 24	8 11 57	3°40'02	20° 7	18°35	29 ¹ 28	15° 3	8°50	22°12	3°44	25°57	26°55	22°R30	21°58	13°36	17°54	S 24
M 25	8 15 54	4°41'05	2 ¹ 21	18°21	28°53	15°19	8°56	22°13	3°47	25°58	26°56	22°30	21°55	13°43	17°54	M 25
T 26	8 19 50	5°42'06	1 ¹ 47	17°55	28°18	15°35	9° 1	22°13	3°49	26° 0	26°56	22°29	21°52	13°49	17°54	T 26
W 27	8 23 47	6°43'06	27°26	17°18	27°45	15°50	9° 6	22°14	3°51	26° 2	26°56	22°27	21°48	13°56	17°D54	W 27
T 28	8 27 43	7°44'06	10 ¹ 18	16°31	27°12	16° 5	9°11	22°14	3°53	26° 4	26°56	22°25	21°45	14° 3	17°54	T 28
F 29	8 31 40	8°45'04	23°23	15°35	26°42	16°19	9°16	22°15	3°55	26° 6	26°R56	22°23	21°42	14° 9	17°54	F 29
S 30	8 35 36	9°46'02	6°14	14°31	26°13	16°33	9°21	22°15	3°57	26° 7	26°56	22°21	21°39	14°16	17°54	S 30
S 31	8 39 33	10 ¹ 46'58	20°14	13 ¹ 22	25 ¹ 46	16 ¹ 46	9 ¹ 25	22°R15	3 ¹ 59	26 ¹ 9	26 ¹ 56	22 ² 19	21 ² 36	14 ¹ 23	17 ¹ 54	S 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
F 1	23s 3	10s21	4s 6	23s41	2s 9	16s34	1n31	0s39	2n20	12s26	1n11	6s 7	2n26	20s32	0n10	22s 6	1n15	5n32	16n56	21n34	21n27	18s40	14n41	2s41	
S 2	22 58	5 48	4 45	23 23	2 8	16 21	1 45	0 48	2 21	12 29	1 11	6 8	2 26	20 33	0 10	22 6	1 15	5 32	16 57	21 34	21 27	18 42	14 40	2 41	
S 3	22 52	0 52	5 10	23 4	2 6	16 8	2 0	0 57	2 22	12 32	1 11	6 8	2 26	20 33	0 10	22 6	1 15	5 32	16 57	21 34	21 28	18 44	14 40	2 41	
M 4	22 47	4n13	5 17	22 43	2 3	15 55	2 15	1 5	2 23	12 34	1 11	6 9	2 26	20 34	0 10	22 6	1 15	5 32	16 58	21 34	21 29	18 45	14 40	2 41	
T 5	22 40	9 14	5 6	22 20	2 0	15 43	2 30	1 14	2 24	12 37	1 11	6 10	2 27	20 34	0 10	22 6	1 15	5 32	16 58	21 34	21 29	18 47	14 39	2 41	
W 6	22 34	13 52	4 36	21 57	1 56	15 32	2 45	1 22	2 25	12 39	1 11	6 11	2 27	20 35	0 10	22 6	1 15	5 33	16 59	21 34	21 30	18 48	14 39	2 41	
T 7	22 26	17 44	3 47	21 31	1 52	15 20	3 0	1 30	2 26	12 42	1 11	6 12	2 27	20 36	0 10	22 6	1 15	5 33	16 59	21 34	21 30	18 50	14 39	2 41	
F 8	22 19	20 30	2 42	21 5	1 46	15 10	3 16	1 38	2 27	12 44	1 12	6 12	2 27	20 36	0 10	22 6	1 15	5 33	17 0	21 34	21 31	18 51	14 38	2 41	
S 9	22 11	21 50	1 26	20 38	1 40	15 0	3 31	1 46	2 27	12 47	1 12	6 13	2 28	20 37	0 10	22 6	1 15	5 33	17 0	21 34	21 31	18 53	14 38	2 41	
S 10	22 2	21 37	0 4	20 9	1 34	14 50	3 47	1 54	2 28	12 49	1 12	6 13	2 28	20 37	0 10	22 6	1 15	5 34	17 1	21 34	21 32	18 54	14 38	2 41	
M11	21 53	19 54	1n17	19 39	1 26	14 41	4 2	2 2	2 29	12 51	1 12	6 14	2 28	20 38	0 10	22 7	1 15	5 34	17 2	21 34	21 32	18 56	14 38	2 41	
T 12	21 44	16 56	2 32	19 9	1 17	14 32	4 17	2 9	2 30	12 53	1 12	6 15	2 29	20 38	0 10	22 7	1 15	5 34	17 2	21 34	21 33	18 57	14 37	2 41	
W13	21 34	13 4	3 35	18 38	1 8	14 24	4 33	2 16	2 31	12 56	1 12	6 15	2 29	20 39	0 10	22 7	1 15	5 35	17 3	21 34	21 33	18 59	14 37	2 41	
T 14	21 24	8 38	4 23	18 7	0 57	14 17	4 47	2 24	2 32	12 58	1 13	6 15	2 29	20 39	0 10	22 7	1 15	5 35	17 3	21 34	21 34	19 0	14 37	2 41	
F 15	21 13	3 57	4 57	17 36	0 46	14 10	5 2	2 31	2 33	13 0	1 13	6 16	2 29	20 40	0 10	22 7	1 15	5 35	17 4	21 34	21 34	19 2	14 37	2 41	
S 16	21 2	0s45	5 15	17 4	0 34	14 4	5 16	2 37	2 34	13 2	1 13	6 16	2 30	20 40	0 10	22 7	1 15	5 36	17 4	21 34	21 35	19 4	14 37	2 41	
S 17	20 51	5 19	5 17	16 34	0 20	13 58	5 30	2 44	2 35	13 4	1 13	6 17	2 30	20 41	0 10	22 7	1 15	5 36	17 5	21 34	21 35	19 5	14 37	2 40	
M18	20 39	9 34	5 5	16 4	0 6	13 53	5 43	2 51	2 36	13 6	1 13	6 17	2 30	20 41	0 10	22 7	1 15	5 36	17 6	21 34	21 36	19 7	14 37	2 40	
T 19	20 27	13 24	4 40	15 35	0n 9	13 49	5 56	2 57	2 37	13 8	1 14	6 17	2 30	20 42	0 10	22 7	1 15	5 37	17 6	21 34	21 36	19 8	14 37	2 40	
W20	20 14	16 40	4 4	15 8	0 25	13 45	6 8	3 3	2 38	13 9	1 14	6 17	2 31	20 42	0 10	22 7	1 15	5 37	17 7	21 34	21 37	19 10	14 36	2 40	
T 21	20 1	19 15	3 17	14 43	0 42	13 42	6 19	3 10	2 39	13 11	1 14	6 17	2 31	20 43	0 10	22 7	1 15	5 38	17 7	21 34	21 37	19 11	14 36	2 40	
F 22	19 48	21 2	2 21	14 21	0 59	13 39	6 30	3 15	2 40	13 13	1 14	6 18	2 31	20 43	0 10	22 7	1 15	5 38	17 8	21 34	21 38	19 13	14 36	2 40	
S 23	19 34	21 53	1 19	14 1	1 17	13 37	6 40	3 21	2 40	13 15	1 14	6 18	2 32	20 44	0 10	22 7	1 16	5 38	17 8	21 34	21 38	19 14	14 36	2 40	
S 24	19 20	21 43	0 13	13 45	1 35	13 35	6 49	3 27	2 41	13 16	1 14	6 18	2 32	20 44	0 10	22 7	1 16	5 39	17 9	21 34	21 39	19 15	14 36	2 40	
M25	19 6	20 31	0s54	13 32	1 53	13 34	6 57	3 32	2 42	13 18	1 15	6 18	2 32	20 45	0 10	22 7	1 16	5 39	17 10	21 34	21 39	19 17	14 36	2 40	
T 26	18 51	18 19	2 0	13 23	2 11	13 34	7 5	3 37	2 43	13 19	1 15	6 18	2 32	20 45	0 10	22 7	1 16	5 40	17 10	21 34	21 40	19 18	14 37	2 40	
W27	18 36	15 12	3 2	13 18	2 28	13 34	7 11	3 42	2 44	13 21	1 15	6 18	2 33	20 45	0 10	22 7	1 16	5 40	17 11	21 34	21 40	19 20	14 37	2 40	
T 28	18 20	11 20	3 55	13 17	2 44	13 34	7 17	3 47	2 45	13 22	1 15	6 18	2 33	20 46	0 10	22 7	1 16	5 41	17 11	21 35	21 41	19 21	14 37	2 40	
F 29	18 4	6 51	4 36	13 20	2 58	13 35	7 22	3 52	2 46	13 24	1 15	6 17	2 33	20 46	0 10	22 7	1 16	5 41	17 12	21 35	21 41	19 23	14 37	2 39	
S 30	17 48	2 0	5 4	13 26	3 10	13 37	7 26	3 56	2 47	13 25	1 16	6 17	2 34	20 47	0 10	22 7	1 16	5 42	17 12	21 35	21 42	19 24	14 37	2 39	
S 31	17s32	3n 2	5s16	13s36	3n21	13s38	7n29	4s 0	2n48	13s26	1n16	6s17	2n34	20s47	0n10	22s 7	1n16	5n43	17n13	21n36	21n42	19s26	14n37	2s39	

ASTRODIENST EPHEMERIS for the year 1982

geocentric

FEBRUARY 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 43 30	11 ⁴⁷ 52	4 ⁸ 0	12°R 9	25°R21	16 ⁵ 59	9 ¹¹ 30	22°R15	4 ⁷ 1	26 ¹¹ 11	26°R56	22°R18	21 ⁵ 33	14 ⁷ 29	17 ⁸ 55	M 1
T 2	8 47 26	12°48'46	18° 0	10 ⁵⁵	24 ³ 59	17°11	9°34	22 ¹⁵	4° 3	26°13	26 ⁵⁶	22°D18	21°29	14°36	17°55	T 2
W 3	8 51 23	13°49'38	2 ¹¹ 11	9°42	24°38	17°23	9°38	22°14	4° 5	26°14	26°56	22 ⁵⁸ 18	21°26	14°43	17°55	W 3
T 4	8 55 19	14°50'28	16°33	8°31	24°20	17°34	9°42	22°14	4° 7	26°16	26°55	22°20	21°23	14°49	17°56	T 4
F 5	8 59 16	15°51'18	1 ⁵ 2	7°25	24° 4	17°45	9°45	22°14	4° 9	26°18	26°55	22°21	21°20	14°56	17°56	F 5
S 6	9 3 12	16°52'06	15°35	6°24	23°51	17°55	9°49	22°13	4°10	26°19	26°55	22°R22	21°17	15° 3	17°57	S 6
S 7	9 7 9	17°52'52	0 ⁸ 6	5°30	23°40	18° 5	9°52	22°12	4°12	26°21	26°55	22°22	21°14	15°10	17°58	S 7
M 8	9 11 6	18°53'38	14°30	4°44	23°32	18°14	9°55	22°12	4°14	26°22	26°54	22°21	21°10	15°16	17°58	M 8
T 9	9 15 2	19°54'21	28°41	4° 6	23°26	18°22	9°58	22°11	4°15	26°24	26°54	22°18	21° 7	15°23	17°59	T 9
W10	9 18 59	20°55'04	12 ¹¹ 34	3°37	23°23	18°30	10° 1	22°10	4°17	26°25	26°53	22°14	21° 4	15°30	18° 0	W10
T 11	9 22 55	21°55'45	26° 6	3°15	23°D22	18°37	10° 3	22° 9	4°18	26°27	26°53	22° 9	21° 1	15°36	18° 1	T 11
F 12	9 26 52	22°56'25	9 ¹⁶	3° 1	23°23	18°43	10° 6	22° 7	4°20	26°28	26°53	22° 4	20°58	15°43	18° 2	F 12
S 13	9 30 48	23°57'04	22° 3	2°D56	23°27	18°49	10° 8	22° 6	4°21	26°30	26°52	21°59	20°54	15°50	18° 3	S 13
S 14	9 34 45	24°57'42	4 ¹¹ 30	2°57	23°33	18°54	10°10	22° 5	4°22	26°31	26°52	21°56	20°51	15°56	18° 4	S 14
M15	9 38 41	25°58'19	16°40	3° 5	23°42	18°59	10°12	22° 3	4°23	26°33	26°51	21°54	20°48	16° 3	18° 5	M15
T 16	9 42 38	26°58'55	28°38	3°20	23°53	19° 2	10°13	22° 2	4°25	26°34	26°50	21°D54	20°45	16°10	18° 7	T 16
W17	9 46 34	27°59'29	10 ¹⁷ 29	3°41	24° 6	19° 6	10°15	22° 0	4°26	26°35	26°50	21°54	20°42	16°16	18° 8	W17
T 18	9 50 31	29° 0'02	22°18	4° 7	24°21	19° 8	10°16	21°58	4°27	26°37	26°49	21°56	20°39	16°23	18° 9	T 18
F 19	9 54 28	0 ¹¹ 0'34	4 ³ 10	4°38	24°38	19°10	10°17	21°56	4°28	26°38	26°48	21°58	20°35	16°30	18°11	F 19
S 20	9 58 24	1° 1'05	16° 9	5°14	24°57	19°11	10°18	21°54	4°29	26°39	26°48	21°R59	20°32	16°36	18°12	S 20
S 21	10 2 21	2° 1'34	28°20	5°55	25°18	19°R11	10°19	21°52	4°30	26°40	26°47	21°59	20°29	16°43	18°14	S 21
M22	10 6 17	3° 2'01	10 ¹⁶ 46	6°39	25°41	19°10	10°19	21°50	4°31	26°42	26°46	21°57	20°26	16°50	18°15	M22
T 23	10 10 14	4° 2'28	23°28	7°27	26° 6	19° 9	10°20	21°48	4°32	26°43	26°45	21°53	20°23	16°56	18°17	T 23
W24	10 14 10	5° 2'52	6 ¹¹ 27	8°19	26°32	19° 7	10°R20	21°45	4°32	26°44	26°45	21°47	20°20	17° 3	18°19	W24
T 25	10 18 7	6° 3'15	19°43	9°14	27° 0	19° 4	10°20	21°43	4°33	26°45	26°44	21°40	20°16	17°10	18°20	T 25
F 26	10 22 3	7° 3'36	3 ¹¹ 14	10°11	27°30	19° 1	10°19	21°40	4°34	26°46	26°43	21°32	20°13	17°16	18°22	F 26
S 27	10 26 0	8° 3'55	16°58	11°12	28° 1	18°56	10°19	21°38	4°34	26°47	26°42	21°24	20°10	17°23	18°24	S 27
S 28	10 29 57	9 ¹¹ 4'13	0 ⁸ 51	12 ¹¹ 15	28 ³ 33	18 ⁵ 51	10 ¹¹ 18	21 ¹⁵ 35	4 ¹¹ 35	26 ¹¹ 48	26 ¹¹ 41	21 ¹⁵ 18	20 ¹⁵ 7	17 ¹¹ 30	18 ¹¹ 26	S 28

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
M 1	17s15	8n 0	5s 9	13s48	3n29	13s40	7n31	4s 4	2n49	13s27	1n16	6s17	2n34	20s47	0n10	22s 7	1n16	5n43	17n14	21n36	21n43	19s27	14n37	2s39			
T 2	16 58	12 38	4 45	14 3	3 35	13 43	7 33	4 8	2 50	13 28	1 16	6 16	2 34	20 48	0 10	22 7	1 16	5 44	17 14	21 36	21 43	19 29	14 37	2 39			
W 3	16 41	16 38	4 3	14 19	3 38	13 46	7 33	4 12	2 51	13 29	1 16	6 16	2 35	20 48	0 10	22 8	1 16	5 44	17 15	21 36	21 44	19 30	14 38	2 39			
T 4	16 23	19 42	3 5	14 37	3 39	13 49	7 33	4 15	2 52	13 30	1 17	6 16	2 35	20 48	0 10	22 8	1 16	5 45	17 15	21 35	21 44	19 32	14 38	2 39			
F 5	16 5	21 31	1 55	14 55	3 37	13 52	7 33	4 18	2 53	13 31	1 17	6 15	2 35	20 49	0 10	22 8	1 16	5 46	17 16	21 35	21 45	19 33	14 38	2 39			
S 6	15 47	21 55	0 37	15 13	3 34	13 55	7 31	4 21	2 54	13 32	1 17	6 15	2 35	20 49	0 10	22 8	1 16	5 46	17 16	21 35	21 45	19 34	14 38	2 39			
S 7	15 28	20 49	0n42	15 32	3 28	13 59	7 29	4 24	2 55	13 33	1 17	6 14	2 36	20 49	0 10	22 8	1 16	5 47	17 17	21 35	21 46	19 36	14 39	2 39			
M 8	15 10	18 22	1 59	15 49	3 21	14 3	7 27	4 26	2 56	13 34	1 17	6 14	2 36	20 50	0 10	22 8	1 16	5 47	17 17	21 35	21 46	19 37	14 39	2 39			
T 9	14 51	14 51	3 6	16 7	3 13	14 7	7 24	4 29	2 57	13 35	1 18	6 13	2 36	20 50	0 10	22 8	1 16	5 48	17 18	21 36	21 47	19 39	14 39	2 39			
W10	14 31	10 33	4 1	16 23	3 3	14 11	7 20	4 31	2 58	13 35	1 18	6 13	2 37	20 50	0 10	22 8	1 16	5 48	17 19	21 36	21 47	19 40	14 39	2 38			
T 11	14 12	5 51	4 41	16 38	2 52	14 15	7 16	4 33	2 58	13 36	1 18	6 12	2 37	20 50	0 10	22 8	1 16	5 49	17 19	21 37	21 48	19 42	14 40	2 38			
F 12	13 52	1 0	5 5	16 52	2 41	14 19	7 12	4 34	2 59	13 36	1 18	6 11	2 37	20 51	0 10	22 8	1 16	5 50	17 20	21 38	21 48	19 43	14 40	2 38			
S 13	13 32	3s45	5 13	17 5	2 29	14 23	7 7	4 36	3 0	13 37	1 18	6 10	2 37	20 51	0 10	22 8	1 16	5 50	17 20	21 39	21 49	19 44	14 40	2 38			
S 14	13 12	8 13	5 5	17 16	2 17	14 27	7 2	4 37	3 1	13 37	1 19	6 10	2 38	20 51	0 10	22 8	1 16	5 51	17 21	21 39	21 49	19 46	14 41	2 38			
M15	12 52	12 17	4 44	17 26	2 5	14 31	6 56	4 38	3 2	13 38	1 19	6 9	2 38	20 51	0 10	22 8	1 16	5 52	17 21	21 40	21 50	19 47	14 41	2 38			
T 16	12 31	15 47	4 11	17 35	1 53	14 35	6 51	4 38	3 3	13 38	1 19	6 8	2 38	20 52	0 10	22 8	1 16	5 52	17 22	21 40	21 50	19 49	14 42	2 38			
W17	12 10	18 36	3 27	17 42	1 40	14 39	6 44	4 39	3 4	13 38	1 19	6 7	2 38	20 52	0 10	22 8	1 16	5 53	17 22	21 40	21 51	19 50	14 42	2 38			
T 18	11 49	20 38	2 35	17 48	1 28	14 43	6 38	4 39	3 4	13 39	1 19	6 6	2 39	20 52	0 10	22 8	1 16	5 54	17 23	21 39	21 51	19 51	14 43	2 38			
F 19	11 28	21 47	1 36	17 53	1 16	14 46	6 32	4 39	3 5	13 39	1 20	6 5	2 39	20 52	0 10	22 8	1 16	5 55	17 23	21 39	21 52	19 53	14 43	2 38			
S 20	11 7	21 56	0 32	17 56	1 4	14 50	6 25	4 38	3 6	13 39	1 20	6 4	2 39	20 52	0 10	22 8	1 16	5 55	17 24	21 39	21 52	19 54	14 43	2 38			
S 21	10 45	21 4	0s35	17 57	0 52	14 53	6 18	4 38	3 7	13 39	1 20	6 3	2 39	20 53	0 10	22 8	1 16	5 56	17 24	21 39	21 53	19 56	14 44	2 38			
M22	10 24	19 9	1 40	17 58	0 40	14 56	6 11	4 37	3 7	13 39	1 20	6 2	2 40	20 53	0 10	22 8	1 16	5 57	17 25	21 39	21 53	19 57	14 44	2 38			
T 23	10 2	16 15	2 42	17 56	0 29	14 59	6 3	4 36	3 8	13 39	1 20	6 1	2 40	20 53	0 10	22 8	1 16	5 57	17 25	21 40	21 54	19 58	14 45	2 37			
W24	9 40	12 31	3 37	17 54	0 18	15 1	5 56	4 34	3 9	13 39	1 21	6 0	2 40	20 53	0 10	22 8	1 16	5 58	17 26	21 41	21 54	20 0	14 46	2 37			
T 25	9 18	8 5	4 22	17 50	0 7	15 3	5 49	4 33	3 10	13 38	1 21	5 59	2 40	20 53	0 10	22 8	1 16	5 59	17 26	21 42	21 55	20 1	14 46	2 37			
F 26	8 55	3 11	4 53	17 44	0s 3	15 5	5 41	4 31	3 10	13 38	1 21	5 58	2 40	20 53	0 10	22 8	1 16	6 0	17 27	21 43	21 55	20 2	14 47	2 37			
S 27	8 33	1n56	5 7	17 37	0 13	15 7	5 33	4 29	3 11	13 38	1 21	5 57	2 41	20 53	0 10	22 8	1 16	6 0	17 27	21 44	21 56	20 4	14 47	2 37			
S 28	8s10	7n 2	5s 4	17s29	0s22	15s 8	5n26	4s26	3n11	13s37	1n21	5s56	2n41	20s54	0n10	22s 8	1n16	6n 1	17n27	21n45	21n56	20s 5	14n48	2s37			

Julian Day Number = 2445001.5, Delta T = 52.23 sec

ASTRODIENST EPHEMERIS for the year 1982
geocentric

MARCH 1982

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 33 53	10♈ 4'28	14♌ 51	13♍ 20	29♋ 7	18°R45	10°R18	21°R32	4♌ 35	26♌ 49	26°R40	21°R13	20♌ 4	17♌ 36	18♌ 28	M 1
T 2	10 37 50	11° 4'41	28°56	14°28	29°43	18♌ 39	10♌ 17	21♌ 29	4°36	26°50	26♌ 39	21♌ 10	20° 0	17°43	18°30	T 2
W 3	10 41 46	12° 4'53	13♌ 2	15°38	0♌ 19	18°31	10°15	21°26	4°36	26°51	26°38	21°D 9	19°57	17°50	18°32	W 3
T 4	10 45 43	13° 5'02	27°10	16°49	0°57	18°23	10°14	21°23	4°37	26°52	26°37	21°10	19°54	17°56	18°34	T 4
F 5	10 49 39	14° 5'09	11♌ 18	18° 3	1°36	18°14	10°13	21°20	4°37	26°52	26°36	21°11	19°51	18° 3	18°37	F 5
S 6	10 53 36	15° 5'14	25°24	19°18	2°16	18° 4	10°11	21°17	4°37	26°53	26°34	21°R11	19°48	18°10	18°39	S 6
S 7	10 57 32	16° 5'17	9♌ 27	20°36	2°58	17°54	10° 9	21°14	4°37	26°54	26°33	21°10	19°45	18°16	18°41	S 7
M 8	11 1 29	17° 5'18	23°24	21°54	3°40	17°42	10° 7	21°10	4°37	26°55	26°32	21° 6	19°41	18°23	18°43	M 8
T 9	11 5 26	18° 5'16	7♌ 12	23°14	4°24	17°30	10° 4	21° 7	4°38	26°55	26°31	20°59	19°38	18°30	18°46	T 9
W10	11 9 22	19° 5'13	20°47	24°36	5° 8	17°18	10° 2	21° 3	4°R38	26°56	26°30	20°51	19°35	18°36	18°48	W10
T 11	11 13 19	20° 5'08	4♌ 6	26° 0	5°53	17° 4	9°59	21° 0	4°37	26°57	26°28	20°40	19°32	18°43	18°51	T 11
F 12	11 17 15	21° 5'01	17° 8	27°24	6°40	16°50	9°57	20°56	4°37	26°57	26°27	20°29	19°29	18°50	18°53	F 12
S 13	11 21 12	22° 4'52	29°51	28°50	7°27	16°35	9°53	20°52	4°37	26°58	26°26	20°19	19°25	18°56	18°56	S 13
S 14	11 25 8	23° 4'41	12♌ 17	0♌ 18	8°15	16°19	9°50	20°49	4°37	26°58	26°25	20°10	19°22	19° 3	18°59	S 14
M15	11 29 5	24° 4'29	24°28	1°46	9° 3	16° 3	9°47	20°45	4°37	26°59	26°23	20° 4	19°19	19°10	19° 1	M15
T 16	11 33 1	25° 4'15	6♌ 26	3°17	9°53	15°46	9°43	20°41	4°37	26°59	26°22	19°59	19°16	19°16	19° 4	T 16
W17	11 36 58	26° 3'59	18°18	4°48	10°43	15°29	9°40	20°37	4°36	27° 0	26°20	19°58	19°13	19°23	19° 7	W17
T 18	11 40 55	27° 3'42	0♌ 6	6°21	11°34	15°10	9°36	20°33	4°36	27° 0	26°19	19°D57	19°10	19°30	19°10	T 18
F 19	11 44 51	28° 3'23	9♌ 58	7°55	12°26	14°52	9°32	20°29	4°35	27° 1	26°18	19°58	19° 6	19°36	19°13	F 19
S 20	11 48 48	29° 3'02	23°59	9°30	13°19	14°32	9°28	20°25	4°35	27° 1	26°16	19°R58	19° 3	19°43	19°16	S 20
S 21	11 52 44	0♌ 2'39	6♌ 13	11° 6	14°12	14°12	9°23	20°21	4°34	27° 1	26°15	19°57	19° 0	19°50	19°19	S 21
M22	11 56 41	1° 2'15	18°44	12°44	15° 5	13°52	9°19	20°16	4°34	27° 2	26°13	19°53	18°57	19°56	19°22	M22
T 23	12 0 37	2° 1'49	1♌ 37	14°23	15°59	13°31	9°14	20°12	4°33	27° 2	26°12	19°47	18°54	20° 3	19°25	T 23
W24	12 4 34	3° 1'20	14°52	16° 4	16°54	13°10	9° 9	20° 8	4°32	27° 2	26°10	19°38	18°51	20°10	19°28	W24
T 25	12 8 30	4° 0'50	28°30	17°45	17°50	12°48	9° 4	20° 4	4°31	27° 2	26° 9	19°28	18°47	20°16	19°31	T 25
F 26	12 12 27	5° 0'18	12♌ 26	19°28	18°45	12°26	8°59	19°59	4°31	27° 2	26° 7	19°16	18°44	20°23	19°34	F 26
S 27	12 16 23	5°59'44	26°38	21°12	19°42	12° 4	8°54	19°55	4°30	27° 3	26° 6	19° 4	18°41	20°29	19°37	S 27
S 28	12 20 20	6°59'08	10♌ 58	22°58	20°39	11°41	8°48	19°50	4°29	27° 3	26° 4	18°54	18°38	20°36	19°41	S 28
M29	12 24 17	7°58'29	25°22	24°45	21°36	11°18	8°43	19°46	4°28	27° 3	26° 3	18°46	18°35	20°43	19°44	M29
T 30	12 28 13	8°57'48	9♌ 44	26°33	22°34	10°55	8°37	19°41	4°27	27°R 3	26° 1	18°41	18°31	20°49	19°47	T 30
W31	12 32 10	9♌ 57'05	24♌ 0	28♌ 23	23°32	10°32	8♌ 31	19°37	4♌ 26	27♌ 3	25°59	18°38	18°28	20°56	19°51	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	7s48	11n48	4s42	17s19	0s32	15s 9	5n18	4s23	3n12	13s37	1n22	5s54	2n41	20s54	0n10	22s 8
T 2	7 25	15 57	4 4	17 8	0 41	15 9	5 10	4 20	3 12	13 36	1 22	5 53	2 41	20 54	0 10	22 8
W 3	7 2	19 13	3 11	16 56	0 49	15 10	5 2	4 17	3 13	13 36	1 22	5 52	2 42	20 54	0 10	22 8
T 4	6 39	21 19	2 6	16 42	0 57	15 9	4 54	4 14	3 13	13 35	1 22	5 50	2 42	20 54	0 10	22 8
F 5	6 16	22 5	0 53	16 27	1 5	15 9	4 46	4 10	3 13	13 35	1 22	5 48	2 42	20 54	0 10	22 8
S 6	5 53	21 26	0n23	16 11	1 13	15 8	4 39	4 6	3 14	13 34	1 23	5 49	2 42	20 54	0 10	22 8
S 7	5 29	19 26	1 36	15 53	1 20	15 6	4 31	4 2	3 14	13 33	1 23	5 46	2 42	20 54	0 10	22 8
M 8	5 6	16 18	2 44	15 34	1 26	15 4	4 23	3 57	3 14	13 32	1 23	5 45	2 43	20 54	0 10	22 8
T 9	4 43	12 17	3 41	15 14	1 33	15 2	4 15	3 53	3 14	13 31	1 23	5 43	2 43	20 54	0 10	22 8
W10	4 19	7 42	4 24	14 52	1 39	14 59	4 7	3 48	3 14	13 31	1 23	5 42	2 43	20 54	0 10	22 8
T 11	3 56	2 50	4 52	14 29	1 44	14 56	3 59	3 43	3 15	13 30	1 23	5 40	2 43	20 54	0 10	22 8
F 12	3 32	2s 3	5 4	14 5	1 49	14 53	3 51	3 37	3 15	13 28	1 24	5 39	2 43	20 54	0 10	22 7
S 13	3 8	6 44	5 0	13 40	1 54	14 48	3 43	3 32	3 14	13 27	1 24	5 37	2 43	20 54	0 10	22 7
S 14	2 45	11 3	4 42	13 13	1 58	14 44	3 36	3 26	3 14	13 26	1 24	5 36	2 44	20 54	0 10	22 7
M15	2 21	14 49	4 12	12 45	2 2	14 39	3 28	3 20	3 14	13 25	1 24	5 34	2 44	20 54	0 10	22 7
T 16	1 58	17 56	3 30	12 15	2 6	14 33	3 20	3 14	3 14	13 24	1 24	5 33	2 44	20 54	0 10	22 7
W17	1 34	20 16	2 41	11 45	2 9	14 27	3 13	3 7	3 13	13 22	1 24	5 31	2 44	20 54	0 10	22 7
T 18	1 10	21 43	1 44	11 13	2 11	14 21	3 5	3 1	3 13	13 21	1 25	5 29	2 44	20 54	0 10	22 7
F 19	0 46	22 12	0 43	10 40	2 14	14 14	2 57	2 54	3 12	13 20	1 25	5 28	2 44	20 54	0 10	22 7
S 20	0 23	21 40	0s21	10 6	2 15	14 7	2 50	2 47	3 12	13 18	1 25	5 26	2 44	20 54	0 10	22 7
S 21	0n 1	20 6	1 25	9 31	2 17	13 59	2 42	2 40	3 11	13 17	1 25	5 24	2 45	20 53	0 10	22 7
M22	0 25	17 32	2 27	8 54	2 18	13 50	2 35	2 33	3 10	13 15	1 25	5 23	2 45	20 53	0 10	22 7
T 23	0 48	14 3	3 22	8 16	2 18	13 42	2 28	2 25	3 10	13 13	1 25	5 21	2 45	20 53	0 10	22 7
W24	1 12	9 46	4 8	7 37	2 18	13 32	2 21	2 18	3 9	13 12	1 25	5 19	2 45	20 53	0 10	22 7
T 25	1 36	4 54	4 42	6 57	2 18	13 22	2 13	2 10	3 8	13 10	1 26	5 18	2 45	20 53	0 10	22 7
F 26	1 59	0n19	4 59	6 16	2 17	13 12	2 6	2 3	3 7	13 8	1 26	5 16	2 45	20 53	0 10	22 7
S 27	2 23	5 38	4 59	5 33	2 15	13 1	1 59	1 55	3 6	13 7	1 26	5 14	2 45	20 53	0 10	22 7
S 28	2 46	10 41	4 39	4 50	2 13	12 50	1 52	1 48	3 4	13 5	1 26	5 12	2 45	20 53	0 10	22 7
M29	3 10	15 11	4 2	4 5	2 11	12 38	1 45	1 40	3 3	13 3	1 26	5 11	2 45	20 52	0 10	22 7
T 30	3 33	18 46	3 10	3 20	2 8	12 26	1 39	1 32	3 2	13 1	1 26	5 9	2 45	20 52	0 10	22 7
W31	3n57	21n12	2s 6	2s33	2s 5	12s14	1n32	1s25	3n 0	12s59	1n26	5s 7	2n45	20s52	0n10	22s 7

Julian Day Number = 2445029.5, Delta T = 52.29 sec
Ecliptic obliquity = 23°26'27", Nutation = - 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°29'28", Lahiri = 23°36'29"

ASTRODIENST EPHEMERIS for the year 1982

geocentric

APRIL 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 36 6	10°56'20	8°59	0°14	24°30	10°R 9	8°R25	19°R32	4°R25	27°R 3	25°R58	18°R38	18°25	21°3	19°54	T 1
F 2	12 40 3	11°55'32	22° 8	2° 6	25°29	9°46	8°19	19°28	4°24	27°2	25°56	18°38	18°22	21° 9	19°57	F 2
S 3	12 43 59	12°54'42	5°58	4° 0	26°29	9°22	8°13	19°23	4°22	27° 2	25°54	18°37	18°19	21°16	20° 1	S 3
S 4	12 47 56	13°53'50	19°40	5°55	27°28	8°59	8° 7	19°19	4°21	27° 2	25°53	18°34	18°16	21°23	20° 4	S 4
M 5	12 51 52	14°52'55	3°12	7°52	28°28	8°36	8° 0	19°14	4°20	27° 2	25°51	18°29	18°12	21°29	20° 8	M 5
T 6	12 55 49	15°51'58	16°34	9°50	29°29	8°13	7°54	19° 9	4°19	27° 2	25°50	18°21	18° 9	21°36	20°11	T 6
W 7	12 59 46	16°50'59	29°46	11°49	0°30	7°50	7°47	19° 5	4°17	27° 1	25°48	18°10	18° 6	21°43	20°15	W 7
T 8	13 3 342	17°49'57	12°45	13°49	1°31	7°28	7°40	19° 0	4°16	27° 1	25°46	17°57	18° 3	21°49	20°19	T 8
F 9	13 7 39	18°48'54	25°31	15°51	2°32	7° 6	7°33	18°56	4°14	27° 1	25°45	17°44	18° 0	21°56	20°22	F 9
S 10	13 11 35	19°47'49	8°13	17°54	3°34	6°44	7°27	18°51	4°13	27° 1	25°43	17°31	17°57	22° 3	20°26	S 10
S 11	13 15 32	20°46'41	20°21	19°57	4°36	6°22	7°20	18°46	4°11	27° 0	25°41	17°19	17°53	22° 9	20°30	S 11
M12	13 19 28	21°45'32	2°27	22° 2	5°38	6° 1	7°12	18°42	4°10	27° 0	25°39	17°10	17°50	22°16	20°33	M12
T 13	13 23 25	22°44'21	14°23	24° 8	6°41	5°40	7° 5	18°37	4° 8	26°59	25°38	17° 4	17°47	22°23	20°37	T 13
W14	13 27 21	23°43'09	26°13	26°14	7°44	5°19	6°58	18°32	4° 6	26°59	25°36	17° 0	17°44	22°29	20°41	W14
T 15	13 31 18	24°41'54	8°3	28°20	8°47	4°59	6°51	18°28	4° 5	26°58	25°34	16°59	17°41	22°36	20°45	T 15
F 16	13 35 15	25°40'38	19°52	0°27	9°50	4°40	6°43	18°23	4° 3	26°58	25°33	16°59	17°37	22°43	20°49	F 16
S 17	13 39 11	26°39'21	1°52	2°34	10°54	4°21	6°36	18°19	4° 1	26°57	25°31	16°59	17°34	22°49	20°52	S 17
S 18	13 43 8	27°38'01	14° 5	4°40	11°58	4° 3	6°29	18°14	3°59	26°57	25°29	16°58	17°31	22°56	20°56	S 18
M19	13 47 4	28°36'40	26°38	6°45	13° 2	3°45	6°21	18°10	3°57	26°56	25°28	16°55	17°28	23° 3	21° 0	M19
T 20	13 51 1	29°35'17	9°34	8°50	14° 6	3°28	6°13	18° 5	3°56	26°55	25°26	16°50	17°25	23° 9	21° 4	T 20
W21	13 54 57	0°33'52	22°56	10°53	15°10	3°12	6° 6	18° 1	3°54	26°55	25°24	16°42	17°22	23°16	21° 8	W21
T 22	13 58 54	1°32'26	6°44	12°55	16°15	2°56	5°58	17°56	3°52	26°54	25°23	16°32	17°18	23°23	21°12	T 22
F 23	14 2 50	2°30'58	20°57	14°54	17°20	2°41	5°51	17°52	3°50	26°53	25°21	16°21	17°15	23°29	21°16	F 23
S 24	14 6 47	3°29'28	5°30	16°52	18°25	2°27	5°43	17°47	3°48	26°52	25°19	16°10	17°12	23°36	21°20	S 24
S 25	14 10 44	4°27'56	20°15	18°47	19°31	2°13	5°35	17°43	3°46	26°52	25°18	16° 0	17° 9	23°43	21°24	S 25
M26	14 14 40	5°26'22	5°11	20°39	20°36	2° 0	5°28	17°39	3°44	26°51	25°16	15°52	17° 6	23°49	21°28	M26
T 27	14 18 37	6°24'47	19°49	22°28	21°42	1°48	5°20	17°34	3°42	26°50	25°14	15°48	17° 2	23°56	21°32	T 27
W28	14 22 33	7°23'09	4°24	24°13	22°47	1°37	5°12	17°30	3°39	26°49	25°13	15°45	16°59	24° 3	21°36	W28
T 29	14 26 30	8°21'29	18°45	25°55	23°53	1°26	5° 5	17°26	3°37	26°48	25°11	15°D45	16°56	24° 9	21°40	T 29
F 30	14 30 26	9°19'47	2°49	27°34	24°59	1°17	4°15	17°22	3°35	26°47	25° 9	15°R45	16°53	24°16	21°44	F 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	
T 1	4n20	22n16	0s55	1s45	2s 1	12s 1	1n25	1s17	2n59	12s57	1n26	5s 5	2n46	20s52	0n10	22s 7
F 2	4 43	21 56	0n19	0 56	1 56	11 47	1 19	1 9	2 57	12 55	1 26	5 4	2 46	20 52	0 10	22 7
S 3	5 6	20 14	1 30	0 7	1 51	11 33	1 12	1 2	2 55	12 53	1 27	5 2	2 46	20 51	0 10	22 7
S 4	5 29	17 23	2 36	0n44	1 46	11 19	1 6	0 54	2 54	12 51	1 27	5 0	2 46	20 51	0 10	22 7
M 5	5 52	13 38	3 32	1 35	1 40	11 4	1 0	0 47	2 52	12 49	1 27	4 58	2 46	20 51	0 10	22 7
T 6	6 15	9 14	4 16	2 28	1 34	10 49	0 54	0 40	2 50	12 46	1 27	4 57	2 46	20 51	0 10	22 7
W 7	6 37	4 27	4 45	3 21	1 27	10 33	0 48	0 32	2 48	12 44	1 27	4 55	2 46	20 50	0 10	22 7
T 8	7 0	0s27	4 59	4 14	1 19	10 17	0 42	0 25	2 46	12 42	1 27	4 53	2 46	20 50	0 10	22 7
F 9	7 22	5 15	4 57	5 9	1 11	10 1	0 36	0 19	2 44	12 40	1 27	4 51	2 46	20 50	0 10	22 7
S 10	7 45	9 45	4 41	6 3	1 3	9 44	0 30	0 12	2 42	12 37	1 27	4 50	2 46	20 50	0 10	22 7
S 11	8 7	13 47	4 12	6 58	0 54	9 27	0 24	0 5	2 39	12 35	1 27	4 48	2 46	20 49	0 10	22 6
M12	8 29	17 11	3 32	7 54	0 45	9 9	0 19	0n 1	2 37	12 33	1 27	4 46	2 46	20 49	0 10	22 6
T 13	8 51	19 49	2 43	8 49	0 35	8 51	0 13	0 7	2 35	12 30	1 27	4 44	2 46	20 49	0 10	22 6
W14	9 12	21 36	1 48	9 44	0 25	8 33	0 8	0 13	2 32	12 28	1 27	4 43	2 46	20 48	0 10	22 6
T 15	9 34	22 25	0 47	10 39	0 15	8 14	0 2	0 19	2 30	12 26	1 27	4 41	2 46	20 48	0 10	22 6
F 16	9 56	22 13	0s15	11 34	0 4	7 55	0s 3	0 24	2 27	12 23	1 27	4 39	2 46	20 48	0 10	22 6
S 17	10 17	21 1	1 18	12 28	0n 7	7 36	0 8	0 29	2 25	12 21	1 27	4 37	2 46	20 47	0 10	22 6
S 18	10 38	18 49	2 19	13 21	0 18	7 16	0 13	0 34	2 22	12 18	1 27	4 36	2 46	20 47	0 10	22 6
M19	10 59	15 40	3 14	14 13	0 28	6 56	0 18	0 39	2 20	12 16	1 27	4 34	2 46	20 47	0 10	22 6
T 20	11 20	11 42	4 1	15 4	0 39	6 36	0 22	0 43	2 17	12 13	1 27	4 32	2 46	20 46	0 10	22 6
W21	11 40	7 2	4 37	15 53	0 50	6 16	0 27	0 47	2 15	12 11	1 27	4 31	2 46	20 46	0 10	22 6
T 22	12 1	1 53	4 57	16 41	1 1	5 55	0 32	0 51	2 12	12 8	1 27	4 29	2 46	20 46	0 10	22 6
F 23	12 21	3n32	5 1	17 27	1 11	5 33	0 36	0 55	2 10	12 6	1 27	4 28	2 45	20 45	0 10	22 6
S 24	12 41	8 52	4 45	18 11	1 22	5 12	0 40	0 58	2 7	12 4	1 27	4 26	2 45	20 45	0 10	22 6
S 25	13 1	13 47	4 10	18 52	1 31	4 50	0 45	1 1	2 4	12 1	1 27	4 24	2 45	20 45	0 10	22 6
M26	13 20	17 53	3 18	19 32	1 40	4 28	0 49	1 4	2 2	11 59	1 27	4 23	2 45	20 44	0 10	22 6
T 27	13 40	20 50	2 13	20 9	1 49	4 6	0 53	1 6	1 59	11 56	1 27	4 21	2 45	20 44	0 10	22 6
W28	13 59	22 22	1 0	20 43	1 57	3 44	0 57	1 8	1 56	11 54	1 27	4 20	2 45	20 43	0 10	22 6
T 29	14 18	22 24	0n16	21 15	2 5	3 21	1 1	1 10	1 54	11 51	1 27	4 18	2 45	20 43	0 10	22 6
F 30	14n36	20n59	1n30	21n45	2n11	2s58	1s 4	1n11	1n51	11s49	1n27	4s17	2n45	20s43	0n10	22s 6

Julian Day Number = 2445060.5, Delta T = 52.36 sec

Ecliptic obliquity = 23°26'27", Nutation = - 0°00'17", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°29'32", Lahiri = 23°36'33"

ASTRODIENST EPHEMERIS for the year 1982

geocentric

MAY 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 34 23	10♈18°03	16♊37	29♈ 9	26♈ 6	1°R 8	4°R49	17°R18	3°R33	26°R46	25°R 8	15°R45	16♉50	24♈23	21♈48	S 1
S 2	14 38 19	11°16'17	0♈ 8	0♈39	27°12	1° 0	4♈42	17♈14	3♈31	26♈45	25♈ 6	15♈44	16°47	24°29	21°53	S 2
M 3	14 42 16	12°14'29	13°25	2° 6	28°19	0°53	4°34	17°10	3°28	26°44	25° 4	15°40	16°43	24°36	21°57	M 3
T 4	14 46 13	13°12'39	26°29	3°28	29°25	0°46	4°27	17° 6	3°26	26°43	25° 3	15°34	16°40	24°43	22° 1	T 4
W 5	14 50 9	14°10'46	9♈20	4°47	0°Y32	0°40	4°19	17° 2	3°24	26°42	25° 1	15°25	16°37	24°49	22° 5	W 5
T 6	14 54 6	15° 8'52	21°59	6° 1	1°39	0°36	4°12	16°58	3°21	26°41	25° 0	15°15	16°34	24°56	22° 9	T 6
F 7	14 58 2	16° 6'57	4♈27	7°10	2°46	0°32	4° 4	16°54	3°19	26°40	24°58	15° 4	16°31	25° 2	22°13	F 7
S 8	15 1 59	17° 4'59	16°44	8°15	3°53	0°28	3°57	16°51	3°17	26°39	24°57	14°53	16°28	25° 9	22°17	S 8
S 9	15 5 55	18° 3'00	28°51	9°16	5° 1	0°26	3°50	16°47	3°14	26°38	24°55	14°44	16°24	25°16	22°21	S 9
M10	15 9 52	19° 1'00	10♈50	10°12	6° 8	0°24	3°43	16°44	3°12	26°36	24°54	14°37	16°21	25°22	22°26	M10
T 11	15 13 48	19°58'58	22°42	11° 3	7°16	0°23	3°36	16°40	3°10	26°35	24°52	14°32	16°18	25°29	22°30	T 11
W12	15 17 45	20°56'54	4♈30	11°50	8°24	0°D23	3°28	16°37	3° 7	26°34	24°51	14°30	16°15	25°36	22°34	W12
T 13	15 21 42	21°54'49	16°18	12°32	9°31	0°23	3°21	16°33	3° 5	26°33	24°49	14°D29	16°12	25°42	22°38	T 13
F 14	15 25 38	22°52'43	28° 9	13° 9	10°39	0°25	3°15	16°30	3° 2	26°31	24°48	14°30	16° 8	25°49	22°42	F 14
S 15	15 29 35	23°50'36	10♈ 8	13°41	11°47	0°27	3° 8	16°27	3° 0	26°30	24°46	14°31	16° 5	25°56	22°46	S 15
S 16	15 33 31	24°48'27	22°20	14° 8	12°56	0°29	3° 1	16°24	2°58	26°29	24°45	14°R32	16° 2	26° 2	22°51	S 16
M17	15 37 28	25°46'17	4♈51	14°30	14° 4	0°33	2°54	16°21	2°55	26°28	24°43	14°31	15°59	26° 9	22°55	M17
T 18	15 41 24	26°44'06	17°45	14°48	15°12	0°37	2°48	16°18	2°53	26°26	24°42	14°29	15°56	26°16	22°59	T 18
W19	15 45 21	27°41'54	1°Y 5	15° 0	16°21	0°42	2°42	16°15	2°50	26°25	24°41	14°25	15°53	26°22	23° 3	W19
T 20	15 49 17	28°39'40	14°54	15° 8	17°29	0°48	2°35	16°12	2°48	26°24	24°39	14°20	15°49	26°29	23° 7	T 20
F 21	15 53 14	29°37'26	29°11	15°R11	18°38	0°54	2°29	16° 9	2°45	26°22	24°38	14°13	15°46	26°36	23°11	F 21
S 22	15 57 10	0♈35'10	13♈51	15° 9	19°47	1° 1	2°23	16° 7	2°43	26°21	24°37	14° 6	15°43	26°42	23°16	S 22
S 23	16 1 7	1°32'53	28°48	15° 2	20°55	1° 9	2°17	16° 4	2°40	26°19	24°36	14° 0	15°40	26°49	23°20	S 23
M24	16 5 4	2°30'35	13♈54	14°51	22° 4	1°17	2°11	16° 2	2°38	26°18	24°34	13°56	15°37	26°56	23°24	M24
T 25	16 9 0	3°28'16	28°59	14°36	23°13	1°26	2° 6	15°59	2°35	26°16	24°33	13°53	15°34	27° 2	23°28	T 25
W26	16 12 57	4°25'55	13♈53	14°17	24°22	1°35	2° 0	15°57	2°33	26°15	24°32	13°D52	15°30	27° 9	23°32	W26
T 27	16 16 53	5°23'33	28°32	13°55	25°31	1°46	1°55	15°55	2°30	26°13	24°31	13°53	15°27	27°16	23°36	T 27
F 28	16 20 50	6°21'09	12♈49	13°30	26°41	1°57	1°49	15°52	2°28	26°12	24°30	13°54	15°24	27°22	23°40	F 28
S 29	16 24 46	7°18'44	26°44	13° 2	27°50	2° 8	1°44	15°50	2°25	26°10	24°28	13°56	15°21	27°29	23°44	S 29
S 30	16 28 43	8°16'17	10♈17	12°31	28°59	2°20	1°39	15°49	2°23	26° 9	24°27	13°R56	15°18	27°36	23°48	S 30
M31	16 32 40	9♈13'49	23♈30	11♈59	0° 8	2°23	1°34	15°47	2°20	26° 7	24°26	13°S55	15°14	27°42	23°53	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	14n55	18n21	2n37	22n12	2n17	2s35	1 s 8	1n12	1n48	11s46	1n27	4s15	2n45	20s42	0n10	22s 6	1n19	6n42	17n37	22n31	22n23	21s21	15n42	2s36	1n27
S 2	15 13	14 45	3 33	22 36	2 22	2 12	1 11	1 13	1 46	11 44	1 27	4 14	2 45	20 42	0 10	22 6	1 19	6 43	17 37	22 31	22 23	21 22	15 43	2 36	1n27
M 3	15 31	10 29	4 18	22 59	2 27	1 49	1 15	1 14	1 43	11 41	1 27	4 12	2 45	20 41	0 10	22 5	1 19	6 43	17 37	22 31	22 24	21 23	15 44	2 36	1n27
T 4	15 48	5 48	4 47	23 18	2 30	1 25	1 18	1 14	1 40	11 39	1 26	4 11	2 44	20 41	0 10	22 5	1 19	6 44	17 37	22 32	22 24	21 24	15 45	2 36	1n27
W 5	16 6	0 56	5 2	23 35	2 32	1 1	1 21	1 14	1 38	11 36	1 26	4 10	2 44	20 40	0 10	22 5	1 19	6 44	17 37	22 33	22 24	21 26	15 46	2 36	1n27
T 6	16 23	3s53	5 2	23 50	2 34	0 38	1 24	1 13	1 35	11 34	1 26	4 8	2 44	20 40	0 10	22 5	1 19	6 44	17 36	22 34	22 25	21 27	15 47	2 36	1n27
F 7	16 40	8 30	4 47	24 3	2 35	0 14	1 27	1 12	1 33	11 32	1 26	4 7	2 44	20 40	0 10	22 5	1 19	6 45	17 36	22 35	22 25	21 28	15 48	2 36	1n27
S 8	16 56	12 42	4 19	24 13	2 34	0n10	1 30	1 11	1 30	11 29	1 26	4 6	2 44	20 39	0 10	22 5	1 19	6 45	17 36	22 37	22 26	21 29	15 49	2 36	1n27
S 9	17 13	16 20	3 39	24 22	2 33	0 35	1 32	1 10	1 27	11 27	1 26	4 5	2 44	20 39	0 10	22 5	1 19	6 45	17 36	22 38	22 26	21 30	15 50	2 36	1n27
M10	17 29	19 15	2 50	24 28	2 30	0 59	1 35	1 8	1 25	11 25	1 26	4 3	2 44	20 38	0 10	22 5	1 19	6 46	17 36	22 38	22 26	21 31	15 51	2 37	1n27
T 11	17 44	21 20	1 54	24 32	2 27	1 24	1 37	1 6	1 22	11 22	1 26	4 2	2 43	20 38	0 10	22 5	1 19	6 46	17 35	22 39	22 27	21 32	15 52	2 37	1n27
W12	18 0	22 28	0 54	24 34	2 23	1 48	1 40	1 4	1 20	11 20	1 25	4 1	2 43	20 37	0 10	22 5	1 19	6 46	17 35	22 39	22 27	21 33	15 53	2 37	1n27
T 13	18 15	22 36	0s10	24 34	2 17	2 13	1 42	1 2	1 17	11 18	1 25	4 0	2 43	20 37	0 10	22 5	1 19	6 46	17 35	22 39	22 28	21 34	15 54	2 37	1n27
F 14	18 30	21 44	1 13	24 32	2 11	2 37	1 44	0 59	1 15	11 16	1 25	3 59	2 43	20 36	0 10	22 5	1 19	6 47	17 35	22 39	22 28	21 35	15 55	2 37	1n27
S 15	18 44	19 51	2 14	24 29	2 3	3 2	1 46	0 56	1 13	11 13	1 25	3 58	2 43	20 36	0 10	22 5	1 19	6 47	17 34	22 39	22 28	21 36	15 56	2 37	1n27
S 16	18 58	17 3	3 10	24 24	1 55	3 27	1 48	0 53	1 10	11 11	1 25	3 57	2 43	20 36	0 10	22 5	1 19	6 47	17 34	22 39	22 29	21 37	15 57	2 37	1n27
M17	19 12	13 25	3 58	24 17	1 45	3 51	1 50	0 49	1 8	11 9	1 25	3 56	2 42	20 35	0 10	22 5	1 19	6 47	17 34	22 39	22 29	21 38	15 58	2 37	1n27
T 18	19 26	9 5	4 36	24 8	1 34	4 16	1 52	0 45	1 5	11 7	1 25	3 55	2 42	20 35	0 10	22 5	1 19	6 47	17 33	22 39	22 29	21 39	15 59	2 37	1n27
W19	19 39	4 10	5 1	23 58	1 23	4 41	1 53	0 41	1 3	11 5	1 24	3 54	2 42	20 34	0 10	22 5	1 19	6 48	17 33	22 40	22 30	21 40	16 0	2 37	1n27
T 20	19 52	1n 7	5 9	23 46	1 10	5 6	1 55	0 37	1 1	11 3	1 24	3 53	2 42	20 34	0 10	22 5	1 19	6 48	17 33	22 40	22 30	21 41	16 1	2 37	1n27
F 21	20 4	6 31	4 59	23 33	0 57	5 31	1 56	0 32	0 58	11 1	1 24	3 52	2 42	20 33	0 10	22 5	1 19	6 48	17 32	22 41	22 31	21 42	16 2	2 37	1n27
S 22	20 16	11 43	4 29	23 19	0 42	5 55	1 57	0 27	0 56	10 59	1 24	3 51	2 41	20 33	0 10	22 4	1 19	6 48	17 32	22 42	22 31	21 43	16 3	2 38	1n27
S 23	20 28	16 19	3 40	23 3	0 27	6 20	1 59	0 22	0 54	10 58	1 24	3 50	2 41	20 32	0 10	22 4	1 19	6 48	17 32	22 42	22 31	21 44	16 4	2 38	1n27
M24	20 40	19 54	2 36	22 46	0 11	6 45	2 0	0 17	0 52	10 56	1 23	3 50	2 41	20 32	0 10	22 4	1 19	6 48	17 31	22 43	22 32	21 45	16 5	2 38	1n27
T 25	20 51	22 6	1 20	22 28	0s 5	7 9	2 1	0 11	0 50	10 54	1 23	3 49	2 41	20 31	0 10	22 4	1 19	6 48	17 31	22 43	22 32	21 46	16 6	2 38	1n27
W26	21 2	22 43	0n 0	22 9	0 22	7 34	2 2	0 6	0 48	10 52	1 23	3 48	2 41	20 31	0 10	22 4	1 19	6 48	17 30	22 43	22 32	21 47	16 6	2 38	1n27
T 27	21 12	21 45	1 19	21 49	0 39	7 58	2 2	0s 0	0 45	10 51	1 23	3 48	2 40	20 30	0 10	22 4	1 19	6 48	17 30	22 43	22 33	21 48	16 7	2 38	1n27
F 28	21 22	19 23	2 31	21 29	0 57	8 23	2 3	0 7	0 43	10 49	1 23	3 47	2 40	20 30	0 10	22 4	1 19	6 48	17 30	22 43	22 33	21 49	16 8	2 38	1n27
S 29	21 32	15 56	3 32	21 8	1 14	8 23	2 4	0 13	0 41	10 47	1 22	3 46	2 40	20 29	0 10	22 4	1 19	6 48	17 29	22 43	22 33	21 50	16 9	2 38	1n27
S 30	21 41	11 43	4 20	20 47	1 32	9 11	2 4	0 20	0 39	10 46	1 22	3 46	2 40	20 29	0 10	22 4	1 19	6 48	17 29	22 43	22 34	21 51	16 10	2 38	1n27
M31	21n50	7n 4	4n53	20n26	1s49	9n35	2s 4	0s26	0n37	10s44	1n22	3s45	2n39	20s28	0n10	22s 4	1n19	6n48	17n28	22n43	22n34	21s52	16n11	2s39	1n27

ASTRODIENST EPHEMERIS for the year 1982
geocentric

JUNE 1982

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	16 36 36	10II11'20	6♌24	11°R26	1♌18	2♌46	1°R30	15°R45	2°R18	26°R 6	24°R25	13°R53	15♌11	27♌49	23♌57	T 1
W 2	16 40 33	11° 8'49	19° 2	10II52	2°28	3° 0	1♌25	15♌43	2♌15	26♌4	24♌24	13♌49	15° 8	27°55	24° 1	W 2
T 3	16 44 29	12° 6'17	1♌26	10°19	3°37	3°14	1°21	15°42	2°13	26° 3	24°23	13°44	15° 5	28° 2	24° 5	T 3
F 4	16 48 26	13° 3'44	13°40	9°46	4°47	3°29	1°16	15°40	2°10	26° 1	24°22	13°39	15° 2	28° 9	24° 9	F 4
S 5	16 52 22	14° 1'09	25°45	9°14	5°57	3°44	1°12	15°39	2° 8	26° 0	24°21	13°34	14°59	28°15	24°13	S 5
S 6	16 56 19	14°58'34	7♌42	8°44	7° 6	4° 0	1° 9	15°38	2° 6	25°58	24°20	13°29	14°55	28°22	24°17	S 6
M 7	17 0 15	15°55'58	19°34	8°17	8°16	4°16	1° 5	15°36	2° 3	25°57	24°19	13°26	14°52	28°29	24°21	M 7
T 8	17 4 12	16°53'21	1♌323	7°51	9°26	4°33	1° 1	15°35	2° 1	25°55	24°19	13°24	14°49	28°35	24°25	T 8
W 9	17 8 9	17°50'43	13°10	7°30	10°36	4°51	0°58	15°34	1°58	25°53	24°18	13°D23	14°46	28°42	24°28	W 9
T 10	17 12 5	18°48'05	24°59	7°11	11°46	5° 8	0°55	15°33	1°56	25°52	24°17	13°24	14°43	28°49	24°32	T 10
F 11	17 16 2	19°45'26	6♌53	6°56	12°56	5°27	0°51	15°33	1°54	25°50	24°16	13°25	14°40	28°55	24°36	F 11
S 12	17 19 58	20°42'46	18°56	6°46	14° 7	5°45	0°49	15°32	1°51	25°49	24°15	13°27	14°36	29° 2	24°40	S 12
S 13	17 23 55	21°40'06	1♌10	6°39	15°17	6° 5	0°46	15°31	1°49	25°47	24°15	13°28	14°33	29° 9	24°44	S 13
M14	17 27 51	22°37'25	13°41	6°D37	16°27	6°24	0°43	15°31	1°47	25°45	24°14	13°29	14°30	29°15	24°48	M14
T 15	17 31 48	23°34'44	26°32	6°39	17°37	6°44	0°41	15°30	1°45	25°44	24°13	13°R29	14°27	29°22	24°52	T 15
W16	17 35 44	24°32'02	9♌48	6°46	18°48	7° 5	0°39	15°30	1°42	25°42	24°13	13°29	14°24	29°29	24°55	W16
T 17	17 39 41	25°29'21	23°30	6°58	19°58	7°26	0°37	15°30	1°40	25°40	24°12	13°27	14°20	29°35	24°59	T 17
F 18	17 43 38	26°26'39	7♌39	7°14	21° 9	7°47	0°35	15°D30	1°38	25°39	24°12	13°26	14°17	29°42	25° 3	F 18
S 19	17 47 34	27°23'56	22°14	7°35	22°19	8° 9	0°33	15°30	1°36	25°37	24°11	13°23	14°14	29°49	25° 7	S 19
S 20	17 51 31	28°21'14	7II 8	8° 0	23°30	8°31	0°32	15°30	1°34	25°36	24°10	13°22	14°11	29°55	25°10	S 20
M21	17 55 27	29°18'31	22°16	8°30	24°41	8°53	0°30	15°30	1°31	25°34	24°10	13°20	14° 8	0♌2	25°14	M21
T 22	17 59 24	0♌15'47	7♌28	9° 4	25°51	9°16	0°29	15°30	1°29	25°32	24°10	13°D20	14° 5	0° 8	25°18	T 22
W23	18 3 20	1°13'04	22°34	9°43	27° 2	9°39	0°28	15°31	1°27	25°31	24° 9	13°20	14° 1	0°15	25°21	W23
T 24	18 7 17	2°10'19	7♌26	10°26	28°13	10° 3	0°27	15°31	1°25	25°29	24° 9	13°20	13°58	0°22	25°25	T 24
F 25	18 11 13	3° 7'35	21°57	11°13	29°24	10°27	0°27	15°32	1°23	25°28	24° 8	13°21	13°55	0°28	25°28	F 25
S 26	18 15 10	4° 4'49	6II 4	12° 4	0II35	10°51	0°26	15°33	1°21	25°26	24° 8	13°22	13°52	0°35	25°32	S 26
S 27	18 19 7	5° 2'03	19°45	13° 0	1°46	11°16	0°26	15°34	1°19	25°24	24° 8	13°23	13°49	0°42	25°35	S 27
M28	18 23 3	5°59'16	3♌0	14° 0	2°57	11°41	0°D26	15°34	1°17	25°23	24° 8	13°R23	13°46	0°48	25°39	M28
T 29	18 27 0	6°56'29	15°53	15° 3	4° 8	12° 6	0°26	15°35	1°16	25°21	24° 7	13°23	13°42	0°55	25°42	T 29
W30	18 30 56	7♌53'41	28♌26	16II11	5II19	12♌32	0♌27	15♌37	1♌14	25♌20	24♌7	13♌22	13♌39	1♌3	25♌45	W30

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
T 1	21n59	2n12	5n 9	20n 5	2s 6	9n59	2s 5	0s34	0n35	10s43	1n22	3s45	2n39	20s28	0n10	22s 4	1n19	6n48	17n28	22n43	22n35	21s53	16n12	2s39	16s 13
W 2	22 7	2s39	5 11	19 44	2 22	10 22	2 5	0 41	0 33	10 42	1 21	3 44	2 39	20 27	0 10	22 4	1 19	6 48	17 28	22 43	22 35	21 54	16 13	2 39	16s 13
T 3	22 15	7 19	4 57	19 24	2 38	10 46	2 5	0 48	0 31	10 40	1 21	3 44	2 39	20 27	0 10	22 4	1 19	6 48	17 27	22 44	22 35	21 55	16 13	2 39	16s 13
F 4	22 22	11 38	4 31	19 5	2 52	11 9	2 5	0 56	0 30	10 39	1 21	3 44	2 39	20 26	0 10	22 4	1 19	6 48	17 27	22 44	22 36	21 56	16 14	2 39	16s 14
S 5	22 29	15 26	3 52	18 46	3 6	11 32	2 5	1 4	0 28	10 38	1 21	3 43	2 38	20 26	0 10	22 4	1 19	6 48	17 26	22 45	22 36	21 57	16 15	2 39	16s 15
S 6	22 36	18 35	3 3	18 29	3 19	11 55	2 5	1 12	0 26	10 37	1 21	3 43	2 38	20 26	0 10	22 4	1 19	6 48	17 26	22 45	22 36	21 58	16 16	2 39	16s 16
M 7	22 42	20 55	2 7	18 14	3 30	12 18	2 4	1 20	0 24	10 36	1 20	3 43	2 38	20 25	0 10	22 4	1 19	6 48	17 25	22 46	22 37	21 59	16 17	2 39	16s 17
T 8	22 48	22 20	1 6	17 59	3 41	12 41	2 4	1 28	0 22	10 35	1 20	3 43	2 38	20 25	0 9	22 4	1 19	6 48	17 25	22 46	22 37	22 0	16 18	2 40	16s 18
W 9	22 53	22 46	0 1	17 47	3 50	13 3	2 4	1 37	0 20	10 34	1 20	3 43	2 37	20 24	0 9	22 4	1 19	6 48	17 24	22 46	22 37	22 0	16 18	2 40	16s 18
T 10	22 58	22 11	1s 4	17 36	3 57	13 25	2 3	1 45	0 19	10 33	1 20	3 42	2 37	20 24	0 9	22 4	1 19	6 47	17 24	22 46	22 38	22 1	16 19	2 40	16s 19
F 11	23 3	20 35	2 6	17 28	4 4	13 47	2 2	1 54	0 17	10 32	1 19	3 42	2 37	20 23	0 9	22 3	1 19	6 47	17 23	22 46	22 38	22 2	16 20	2 40	16s 20
S 12	23 7	18 4	3 4	17 21	4 9	14 8	2 2	2 3	0 15	10 31	1 19	3 42	2 37	20 23	0 9	22 3	1 19	6 47	17 23	22 46	22 38	22 3	16 21	2 40	16s 21
S 13	23 11	14 42	3 54	17 16	4 13	14 29	2 1	2 12	0 14	10 31	1 19	3 42	2 36	20 22	0 9	22 3	1 19	6 47	17 22	22 46	22 39	22 4	16 22	2 40	16s 22
M14	23 14	10 38	4 34	17 13	4 15	14 50	2 0	2 22	0 12	10 30	1 19	3 42	2 36	20 22	0 9	22 3	1 19	6 47	17 22	22 45	22 39	22 5	16 22	2 40	16s 23
T 15	23 17	6 0	5 2	17 12	4 17	15 11	1 59	2 31	0 10	10 29	1 18	3 42	2 36	20 21	0 9	22 3	1 19	6 46	17 21	22 45	22 39	22 6	16 23	2 41	16s 24
W16	23 20	0 57	5 15	17 13	4 17	15 31	1 58	2 41	0 9	10 29	1 18	3 43	2 36	20 21	0 9	22 3	1 19	6 46	17 21	22 45	22 40	22 7	16 24	2 41	16s 25
T 17	23 22	4n18	5 11	17 16	4 16	15 51	1 57	2 50	0 7	10 28	1 18	3 43	2 35	20 21	0 9	22 3	1 19	6 46	17 20	22 46	22 40	22 8	16 25	2 41	16s 26
F 18	23 24	9 31	4 48	17 21	4 14	16 11	1 56	3 0	0 5	10 28	1 17	3 43	2 35	20 20	0 9	22 3	1 19	6 45	17 20	22 46	22 40	22 8	16 25	2 41	16s 27
S 19	23 25	14 21	4 7	17 27	4 11	16 30	1 55	3 10	0 4	10 28	1 17	3 43	2 35	20 20	0 9	22 3	1 19	6 45	17 19	22 46	22 41	22 9	16 26	2 41	16s 28
S 20	23 26	18 25	3 7	17 35	4 7	16 49	1 53	3 20	0 2	10 27	1 17	3 43	2 35	20 19	0 9	22 3	1 19	6 45	17 19	22 46	22 41	22 10	16 27	2 41	16s 29
M21	23 26	21 19	1 54	17 45	4 2	17 8	1 52	3 31	0 1	10 27	1 17	3 44	2 34	20 19	0 9	22 3	1 19	6 44	17 18	22 46	22 41	22 11	16 27	2 42	16s 30
T 22	23 26	22 41	0 32	17 56	3 56	17 26	1 50	3 41	0s 1	10 27	1 16	3 44	2 34	20 19	0 9	22 3	1 19	6 44	17 18	22 46	22 42	22 12	16 28	2 42	16s 31
W23	23 26	22 23	0n51	18 8	3 49	17 44	1 49	3 51	0 2	10 27	1 16	3 44	2 34	20 18	0 9	22 3	1 19	6 44	17 17	22 46	22 42	22 13	16 29	2 42	16s 32
T 24	23 25	20 30	2 10	18 21	3 42	18 1	1 47	4 2	0 3	10 27	1 16	3 45	2 34	20 18	0 9	22 3	1 19	6 43	17 17	22 46	22 42	22 14	16 29	2 42	16s 33
F 25	23 24	17 19	3 18	18 36	3 33	18 18	1 46	4 13	0 5	10 27	1 16	3 45	2 33	20 17	0 9	22 3	1 19	6 43	17 16	22 46	22 43	22 14	16 30	2 42	16s 34
S 26	23 23	13 12	4 13	18 52	3 25	18 35	1 44	4 24	0 6	10 27	1 15	3 46	2 33	20 17	0 9	22 3	1 19	6 43	17 15	22 46	22 43	22 15	16 31	2 43	16s 35
S 27	23 21	8 31	4 51	19 8	3 15	18 51	1 42	4 35	0 8	10 27	1 15	3 46	2 33	20 17	0 9	22 3	1 19	6 42	17 15	22 46	22 43	22 16	16 31	2 43	16s 36
M28	23 18	3 35	5 12	19 25	3 5	19 7	1 40	4 46	0 9	10 27	1 15	3 47	2 33	20 16	0 9	22 3	1 19	6 42	17 14	22 46	22 44	22 17	16 32	2 43	16s 37
T 29	23 16	1s22	5 17	19 42	2 55	19 22	1 38	4 57	0 10	10 28	1 15	3 48	2 32	20 16	0 9	22 3	1 19	6 41	17 14	22 46	22 44	22 18	16 33	2 43	16s 38
W30	23n12	6s 8	5n 7	20n 0	2s44	19n37	1s36	5s 8	0s12	10s28	1n14	3s48	2n32	20s15	0n 9	22s 3	1n19	6n41	17n13	22n46	22n44	22s19	16n33	2s43	16s 39

ASTRODIENST EPHEMERIS for the year 1982

geocentric

JULY 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 34 53	8°50'53	10°44	17°23	6°30	12°58	0°27	15°38	1°R12	25°R18	24°R 7	13°R22	13°36	1°8	25°49	T 1
F 2	18 38 49	9°48'05	22°49	18°38	7°41	13°24	0°28	15°39	1°R10	25°R16	24°R 7	13°22	13°33	1°15	25°52	F 2
S 3	18 42 46	10°45'16	4°45	19°58	8°53	13°51	0°29	15°40	1° 8	25°15	24° 7	13°21	13°30	1°22	25°55	S 3
S 4	18 46 42	11°42'27	16°36	21°21	10° 4	14°18	0°30	15°42	1° 7	25°13	24° 7	13°21	13°26	1°28	25°59	S 4
M 5	18 50 39	12°39'38	28°24	22°47	11°15	14°45	0°31	15°44	1° 5	25°12	24°D 7	13°21	13°23	1°35	26° 2	M 5
T 6	18 54 36	13°36'49	10°12	24°18	12°27	15°13	0°32	15°45	1° 3	25°10	24° 7	13°21	13°20	1°42	26° 5	T 6
W 7	18 58 32	14°34'00	22° 3	25°52	13°38	15°40	0°34	15°47	1° 2	25° 9	24° 7	13°21	13°17	1°48	26° 8	W 7
T 8	19 2 29	15°31'11	3°58	27°30	14°49	16° 8	0°36	15°49	1° 0	25° 7	24° 7	13°21	13°14	1°55	26°11	T 8
F 9	19 6 25	16°28'23	15°59	29°11	16° 1	16°37	0°38	15°51	0°59	25° 6	24° 7	13°20	13°11	2° 2	26°14	F 9
S 10	19 10 22	17°25'34	28°10	0°55	17°13	17° 5	0°40	15°53	0°57	25° 4	24° 7	13°20	13° 7	2° 8	26°17	S 10
S 11	19 14 18	18°22'46	10°32	2°43	18°24	17°34	0°42	15°55	0°56	25° 3	24° 8	13°19	13° 4	2°15	26°20	S 11
M12	19 18 15	19°19'58	23° 9	4°33	19°36	18° 3	0°44	15°57	0°54	25° 1	24° 8	13°19	13° 1	2°21	26°23	M12
T 13	19 22 11	20°17'11	6°Y 3	6°27	20°48	18°33	0°47	16° 0	0°53	25° 0	24° 8	13°18	12°58	2°28	26°26	T 13
W14	19 26 8	21°14'24	19°16	8°23	21°59	19° 2	0°50	16° 2	0°52	24°59	24° 8	13°D18	12°55	2°35	26°29	W14
T 15	19 30 5	22°11'37	2°52	10°22	23°11	19°32	0°53	16° 5	0°51	24°57	24° 9	13°18	12°52	2°41	26°31	T 15
F 16	19 34 1	23° 8'52	16°50	12°23	24°23	20° 2	0°56	16° 7	0°49	24°56	24° 9	13°19	12°48	2°48	26°34	F 16
S 17	19 37 58	24° 6'07	1°11	14°26	25°35	20°33	0°59	16°10	0°48	24°54	24°10	13°20	12°45	2°55	26°37	S 17
S 18	19 41 54	25° 3'23	15°51	16°30	26°47	21° 3	1° 2	16°13	0°47	24°53	24°10	13°20	12°42	3° 1	26°40	S 18
M19	19 45 51	26° 0'39	0°56	18°36	27°59	21°34	1° 6	16°16	0°46	24°52	24°10	13°21	12°39	3° 8	26°42	M19
T 20	19 49 47	26°57'56	15°50	20°43	29°11	22° 5	1°10	16°19	0°45	24°50	24°11	13°R21	12°36	3°15	26°45	T 20
W21	19 53 44	27°55'14	0°53	22°50	0°52	22°37	1°14	16°22	0°44	24°49	24°12	13°R21	12°32	3°21	26°47	W21
T 22	19 57 41	28°52'32	15°47	24°58	1°35	23° 8	1°18	16°25	0°43	24°48	24°12	13°20	12°29	3°28	26°50	T 22
F 23	20 1 37	29°49'50	0°12	27° 6	2°47	23°40	1°22	16°28	0°42	24°47	24°13	13°18	12°26	3°35	26°52	F 23
S 24	20 5 34	0°47'09	14°39	29°13	4° 0	24°12	1°27	16°32	0°41	24°45	24°13	13°16	12°23	3°41	26°54	S 24
S 25	20 9 30	1°44'28	28°27	1°20	5°12	24°44	1°31	16°35	0°41	24°44	24°14	13°13	12°20	3°48	26°57	S 25
M26	20 13 27	2°41'47	11°48	3°27	6°24	25°17	1°36	16°39	0°40	24°43	24°15	13°12	12°17	3°55	26°59	M26
T 27	20 17 23	3°39'07	24°44	5°33	7°36	25°49	1°41	16°42	0°39	24°42	24°15	13°10	12°13	4° 1	27° 1	T 27
W28	20 21 20	4°36'28	7°18	7°37	8°49	26°22	1°46	16°46	0°38	24°41	24°16	13°D10	12°10	4° 8	27° 3	W28
T 29	20 25 16	5°33'49	19°34	9°41	10° 1	26°55	1°51	16°50	0°38	24°39	24°17	13°11	12° 7	4°14	27° 6	T 29
F 30	20 29 13	6°31'10	1°36	11°43	11°14	27°28	1°56	16°53	0°37	24°38	24°18	13°12	12° 4	4°21	27° 8	F 30
S 31	20 33 10	7°28'32	13°29	13°44	12°26	28° 2	2°12	16°57	0°37	24°37	24°19	13°14	12° 1	4°28	27°10	S 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	decl	lat	decl	lat
T 1	23n 9	10s34	4n42	20n19	2s33	19n51	1s34	5s19	0s13	10s29	1n14	3s49	2n32	20s15	0n 9	22s 3	1n19	6n40	17n13	22n46	22n45	22s19	16n34	2s43					
F 2	23 5	14 31	4 5	20 37	2 21	20 5	1 32	5 31	0 14	10 29	1 14	3 50	2 32	20 15	0 9	22 3	1 19	6 40	17 12	22 46	22 45	22 20	16 34	2 44					
S 3	23 0	17 50	3 18	20 55	2 9	20 18	1 30	5 42	0 16	10 30	1 13	3 51	2 31	20 14	0 9	22 3	1 19	6 39	17 11	22 46	22 45	22 21	16 35	2 44					
S 4	22 56	20 23	2 23	21 13	1 57	20 31	1 28	5 54	0 17	10 30	1 13	3 51	2 31	20 14	0 9	22 3	1 19	6 39	17 11	22 46	22 46	22 22	16 36	2 44					
M 5	22 50	22 4	1 22	21 31	1 44	20 43	1 26	6 6	0 18	10 31	1 13	3 52	2 31	20 14	0 9	22 3	1 19	6 38	17 10	22 46	22 46	22 23	16 36	2 44					
T 6	22 45	22 45	0 17	21 47	1 32	20 54	1 24	6 17	0 19	10 32	1 13	3 53	2 31	20 13	0 9	22 2	1 19	6 38	17 10	22 46	22 46	22 23	16 37	2 44					
W 7	22 39	22 26	0s48	22 4	1 19	21 6	1 21	6 29	0 21	10 32	1 12	3 54	2 30	20 13	0 9	22 2	1 19	6 37	17 9	22 46	22 47	22 24	16 37	2 45					
T 8	22 32	21 5	1 52	22 19	1 6	21 16	1 19	6 41	0 22	10 33	1 12	3 55	2 30	20 13	0 9	22 2	1 19	6 37	17 9	22 46	22 47	22 25	16 38	2 45					
F 9	22 25	18 47	2 52	22 33	0 54	21 26	1 17	6 53	0 23	10 34	1 12	3 56	2 30	20 13	0 9	22 2	1 19	6 36	17 8	22 46	22 47	22 26	16 38	2 45					
S 10	22 18	15 37	3 44	22 45	0 41	21 36	1 14	7 5	0 24	10 35	1 12	3 57	2 30	20 12	0 9	22 2	1 19	6 35	17 7	22 46	22 48	22 26	16 39	2 45					
S 11	22 11	11 44	4 27	22 56	0 28	21 45	1 12	7 17	0 25	10 36	1 11	3 58	2 29	20 12	0 9	22 2	1 19	6 35	17 7	22 46	22 48	22 27	16 39	2 45					
M12	22 3	7 17	4 58	23 6	0 16	21 53	1 9	7 29	0 26	10 37	1 11	3 59	2 29	20 12	0 9	22 2	1 19	6 34	17 6	22 46	22 48	22 28	16 40	2 46					
T 13	21 55	2 25	5 15	23 13	0 4	22 1	1 7	7 42	0 28	10 39	1 11	4 0	2 29	20 11	0 9	22 2	1 19	6 34	17 6	22 47	22 49	22 29	16 40	2 46					
W14	21 46	2n40	5 16	23 18	0n 7	22 8	1 4	7 54	0 29	10 40	1 10	4 1	2 29	20 11	0 9	22 2	1 19	6 33	17 5	22 47	22 49	22 29	16 40	2 46					
T 15	21 37	7 47	4 59	23 21	0 19	22 14	1 2	8 6	0 30	10 41	1 10	4 3	2 28	20 11	0 9	22 2	1 19	6 32	17 5	22 47	22 49	22 30	16 41	2 46					
F 16	21 27	12 38	4 25	23 21	0 29	22 20	0 59	8 19	0 31	10 42	1 10	4 4	2 28	20 11	0 9	22 2	1 18	6 32	17 4	22 47	22 49	22 31	16 41	2 47					
S 17	21 18	16 55	3 33	23 19	0 40	22 26	0 56	8 31	0 32	10 44	1 10	4 5	2 28	20 10	0 9	22 2	1 18	6 31	17 3	22 46	22 50	22 32	16 42	2 47					
S 18	21 7	20 15	2 27	23 14	0 49	22 30	0 54	8 44	0 33	10 45	1 9	4 6	2 28	20 10	0 9	22 2	1 18	6 30	17 3	22 46	22 50	22 32	16 42	2 47					
M19	20 57	22 17	1 9	23 7	0 58	22 34	0 51	8 56	0 34	10 47	1 9	4 8	2 27	20 10	0 9	22 2	1 18	6 29	17 2	22 46	22 50	22 33	16 42	2 47					
T 20	20 46	22 44	0n14	22 56	1 6	22 38	0 48	9 9	0 35	10 48	1 9	4 9	2 27	20 10	0 9	22 2	1 18	6 29	17 2	22 46	22 51	22 34	16 43	2 48					
W21	20 35	21 31	1 36	22 43	1 14	22 41	0 46	9 21	0 36	10 50	1 9	4 10	2 27	20 10	0 9	22 2	1 18	6 28	17 1	22 46	22 51	22 35	16 43	2 48					
T 22	20 23	18 49	2 50	22 28	1 21	22 43	0 43	9 34	0 37	10 51	1 8	4 12	2 27	20 9	0 9	22 2	1 18	6 27	17 1	22 46	22 51	22 35	16 43	2 48					
F 23	20 11	14 57	3 52	22 9	1 27	22 45	0 40	9 47	0 38	10 53	1 8	4 13	2 26	20 9	0 9	22 2	1 18	6 27	17 0	22 47	22 52	22 36	16 44	2 48					
S 24	19 59	10 19	4 38	21 49	1 32	22 45	0 37	9 59	0 39	10 55	1 8	4 15	2 26	20 9	0 9	22 2	1 18	6 26	16 59	22 47	22 52	22 37	16 44	2 48					
S 25	19 46	5 17	5 6	21 26	1 36	22 46	0 35	10 12	0 40	10 57	1 8	4 16	2 26	20 9	0 9	22 2	1 18	6 25	16 59	22 47	22 52	22 37	16 44	2 49					
M26	19 34	0 11	5 16	21 0	1 40	22 45	0 32	10 25	0 41	10 59	1 7	4 18	2 26	20 9	0 9	22 2	1 18	6 24	16 58	22 47	22 52	22 38	16 45	2 49					
T 27	19 20	4s47	5 10	20 33	1 43	22 44	0 29	10 38	0 42	11 1	1 7	4 20	2 25	20 9	0 9	22 2	1 18	6 23	16 58	22 47	22 53	22 39	16 45	2 49					
W28	19 7	9 24	4 48	20 3	1 45	22 43	0 26	10 50	0 43	11 3	1 7	4 21	2 25	20 9	0 9	22 2	1 18	6 23	16 57	22 47	22 53	22 39	16 45	2 49					
T 29	18 53	13 32	4 15	19 32	1 46	22 40	0 24	11 3	0 44	11 5	1 7	4 23	2 25	20 9	0 9	22 2	1 18	6 22	16 56	22 47	22 53	22 40	16 45	2 50					
F 30	18 39	17 3	3 30	18 59	1 47	22 37	0 21	11 16	0 45	11 7	1 6	4 24	2 25	20 8	0 9	22 2	1 18	6 21	16 57	22 47	22 54	22 41	16 46	2 50					
S 31	18n24	19s49	2n37	18n24	1n47	22n34	0s18	11s29	0s45	11s 9	1n 6	4s26	2n25	20s 8	0n 9	22s 2	1n18	6n20	16n55	22n47	22n54	22s41	16n46	2s50					

ASTRODIENST EPHEMERIS for the year 1982

geocentric

AUGUST 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 37 6	8♂25°54	25♂17	15♂44	13♂39	28♂35	2♂ 8	17♂ 1	0°R36	24°R36	24♂20	13♂15	11♂58	4♂34	27♂12	S 1
M 2	20 41 3	9°23'18	7♂ 5	17°42	14°51	29° 9	2°13	17° 5	0♂36	24♂35	24°21	13°16	11°54	4°41	27°13	M 2
T 3	20 44 59	10°20'42	18°55	19°38	16° 4	29°43	2°19	17°10	0°36	24°34	24°22	13°R16	11°51	4°48	27°15	T 3
W 4	20 48 56	11°18'06	0♂51	21°33	17°17	0♂17	2°25	17°14	0°35	24°33	24°23	13°15	11°48	4°54	27°17	W 4
T 5	20 52 52	12°15'32	12°56	23°26	18°29	0°52	2°32	17°18	0°35	24°32	24°24	13°13	11°45	5° 1	27°19	T 5
F 6	20 56 49	13°12'59	25°10	25°18	19°42	1°26	2°38	17°23	0°35	24°31	24°25	13° 9	11°42	5° 8	27°20	F 6
S 7	21 0 45	14°10'26	7♂35	27° 8	20°55	2° 1	2°45	17°27	0°35	24°30	24°26	13° 4	11°38	5°14	27°22	S 7
S 8	21 4 42	15° 7'55	20°12	28°57	22° 8	2°36	2°51	17°32	0°35	24°29	24°27	12°59	11°35	5°21	27°24	S 8
M 9	21 8 39	16° 5'25	3♂ 3	0♂44	23°21	3°11	2°58	17°36	0°D35	24°29	24°28	12°53	11°32	5°28	27°25	M 9
T 10	21 12 35	17° 2'56	16° 7	2°29	24°34	3°46	3° 5	17°41	0°35	24°28	24°29	12°49	11°29	5°34	27°27	T 10
W 11	21 16 32	18° 0'28	29°26	4°13	25°47	4°22	3°12	17°46	0°35	24°27	24°30	12°46	11°26	5°41	27°28	W 11
T 12	21 20 28	18°58'02	13♂ 1	5°56	27° 0	4°57	3°19	17°50	0°35	24°26	24°32	12°D45	11°23	5°47	27°29	T 12
F 13	21 24 25	19°55'38	26°52	7°37	28°13	5°33	3°26	17°55	0°35	24°25	24°33	12°45	11°19	5°54	27°31	F 13
S 14	21 28 21	20°53'15	10♂59	9°16	29°26	6° 9	3°34	18° 0	0°35	24°25	24°34	12°46	11°16	6° 1	27°32	S 14
S 15	21 32 18	21°50'53	25°21	10°54	0♂39	6°45	3°41	18° 5	0°35	24°24	24°36	12°47	11°13	6° 7	27°33	S 15
M 16	21 36 14	22°48'34	9♂56	12°30	1°52	7°21	3°49	18°10	0°36	24°23	24°37	12°R48	11°10	6°14	27°34	M 16
T 17	21 40 11	23°46'15	24°40	14° 5	3° 6	7°58	3°57	18°16	0°36	24°23	24°38	12°48	11° 7	6°21	27°35	T 17
W 18	21 44 8	24°43'58	9♂26	15°39	4°19	8°34	4° 5	18°21	0°36	24°22	24°40	12°45	11° 4	6°27	27°36	W 18
T 19	21 48 4	25°41'43	24° 8	17°11	5°32	9°11	4°13	18°26	0°37	24°22	24°41	12°41	11° 0	6°34	27°37	T 19
F 20	21 52 1	26°39'28	8♂38	18°41	6°46	9°48	4°21	18°31	0°37	24°21	24°43	12°35	10°57	6°41	27°38	F 20
S 21	21 55 57	27°37'15	22°50	20°10	7°59	10°25	4°29	18°37	0°38	24°20	24°44	12°28	10°54	6°47	27°39	S 21
S 22	21 59 54	28°35'03	6♂39	21°38	9°13	11° 2	4°38	18°42	0°39	24°20	24°46	12°21	10°51	6°54	27°40	S 22
M 23	22 3 50	29°32'53	20° 3	23° 3	10°26	11°39	4°46	18°48	0°39	24°20	24°47	12°14	10°48	7° 1	27°40	M 23
T 24	22 7 47	0♂30'43	3♂ 1	24°28	11°40	12°17	4°55	18°54	0°40	24°19	24°49	12° 9	10°44	7° 7	27°41	T 24
W 25	22 11 43	1°28'35	15°37	25°51	12°53	12°54	5° 4	18°59	0°41	24°19	24°50	12° 6	10°41	7°14	27°41	W 25
T 26	22 15 40	2°26'28	27°53	27°12	14° 7	13°32	5°13	19° 5	0°42	24°18	24°52	12°D 4	10°38	7°21	27°42	T 26
F 27	22 19 36	3°24'23	9♂55	28°31	15°21	14°10	5°22	19°11	0°43	24°18	24°54	12° 4	10°35	7°27	27°42	F 27
S 28	22 23 33	4°22'19	21°47	29°49	16°34	14°48	5°31	19°17	0°44	24°18	24°55	12° 5	10°32	7°34	27°43	S 28
S 29	22 27 30	5°20'16	3♂35	1♂ 5	17°48	15°26	5°40	19°22	0°44	24°17	24°57	12° 6	10°29	7°40	27°43	S 29
M 30	22 31 26	6°18'14	15°24	2°20	19° 2	16° 4	5°49	19°28	0°46	24°17	24°59	12°R 7	10°25	7°47	27°43	M 30
T 31	22 35 23	7♂16'14	27♂18	3♂32	20♂16	16♂43	5♂59	19♂34	0♂47	24♂17	25♂ 1	12♂ 5	10♂22	7♂54	27♂43	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	18n 9	21s44	1n38	17n49	1n46	22n29	0s15	11s42	0s46	11s11	1n 6	4s28	2n24	20s 8	0n 9	22s 2
M 2	17 54	22 41	0 34	17 12	1 45	22 24	0 13	11 55	0 47	11 13	1 6	4 30	2 24	20 8	0 9	22 2
T 3	17 39	22 37	0s31	16 33	1 43	22 19	0 10	12 7	0 48	11 15	1 5	4 31	2 24	20 8	0 9	22 2
W 4	17 23	21 31	1 35	15 54	1 40	22 12	0 7	12 20	0 49	11 18	1 5	4 33	2 24	20 8	0 9	22 2
T 5	17 7	19 25	2 36	15 14	1 37	22 6	0 4	12 33	0 50	11 20	1 5	4 35	2 23	20 8	0 9	22 2
F 6	16 51	16 25	3 30	14 34	1 34	21 58	0 2	12 46	0 50	11 23	1 5	4 37	2 23	20 8	0 9	22 2
S 7	16 35	12 40	4 15	13 52	1 30	21 50	0n 1	12 59	0 51	11 25	1 4	4 39	2 23	20 8	0 9	22 2
S 8	16 18	8 17	4 48	13 11	1 25	21 41	0 4	13 11	0 52	11 27	1 4	4 41	2 23	20 8	0 9	22 2
M 9	16 1	3 29	5 7	12 28	1 21	21 32	0 6	13 24	0 53	11 30	1 4	4 43	2 23	20 8	0 9	22 2
T 10	15 44	1n33	5 11	11 46	1 15	21 22	0 9	13 37	0 54	11 33	1 4	4 45	2 22	20 8	0 9	22 2
W 11	15 26	6 37	4 59	11 3	1 10	21 11	0 12	13 50	0 54	11 35	1 3	4 47	2 22	20 8	0 8	22 2
T 12	15 8	11 28	4 30	10 19	1 4	21 0	0 14	14 2	0 55	11 38	1 3	4 49	2 22	20 8	0 8	22 2
F 13	14 50	15 49	3 44	9 36	0 57	20 48	0 17	14 15	0 56	11 40	1 3	4 51	2 22	20 8	0 8	22 2
S 14	14 32	19 23	2 45	8 53	0 51	20 35	0 19	14 28	0 57	11 43	1 3	4 53	2 22	20 8	0 8	22 2
S 15	14 14	21 48	1 34	8 9	0 44	20 22	0 22	14 40	0 57	11 46	1 3	4 55	2 21	20 8	0 8	22 2
M 16	13 55	22 49	0 16	7 26	0 37	20 9	0 24	14 53	0 58	11 49	1 2	4 57	2 21	20 8	0 8	22 2
T 17	13 36	22 15	1n 4	6 43	0 29	19 54	0 27	15 5	0 59	11 52	1 2	4 59	2 21	20 8	0 8	22 2
W 18	13 17	20 8	2 20	5 59	0 21	19 39	0 29	15 18	0 59	11 55	1 2	5 1	2 21	20 9	0 8	22 2
T 19	12 57	16 42	3 25	5 16	0 14	19 24	0 32	15 30	1 0	11 57	1 2	5 3	2 21	20 9	0 8	22 2
F 20	12 38	12 18	4 17	4 34	0 5	19 8	0 34	15 43	1 1	12 0	1 2	5 6	2 21	20 9	0 8	22 2
S 21	12 18	7 18	4 51	3 51	0s 3	18 52	0 36	15 55	1 1	12 3	1 1	5 8	2 20	20 9	0 8	22 2
S 22	11 58	2 4	5 7	3 9	0 11	18 35	0 39	16 7	1 2	12 6	1 1	5 10	2 20	20 9	0 8	22 2
M 23	11 38	3s 7	5 6	2 27	0 20	18 17	0 41	16 19	1 3	12 9	1 1	5 12	2 20	20 9	0 8	22 2
T 24	11 18	8 0	4 48	1 46	0 28	17 59	0 43	16 32	1 3	12 13	1 1	5 15	2 20	20 9	0 8	22 2
W 25	10 57	12 24	4 18	1 5	0 37	17 40	0 45	16 44	1 4	12 16	1 0	5 17	2 20	20 10	0 8	22 2
T 26	10 36	16 11	3 36	0 24	0 46	17 21	0 48	16 56	1 5	12 19	1 0	5 19	2 20	20 10	0 8	22 2
F 27	10 15	19 13	2 45	0s15	0 55	17 2	0 50	17 8	1 5	12 22	1 0	5 21	2 19	20 10	0 8	22 2
S 28	9 54	21 24	1 47	0 55	1 4	16 42	0 52	17 19	1 6	12 25	1 0	5 24	2 19	20 10	0 8	22 2
S 29	9 33	22 38	0 46	1 33	1 13	16 21	0 54	17 31	1 6	12 28	1 0	5 26	2 19	20 10	0 8	22 2
M 30	9 12	22 51	0s18	2 11	1 23	16 0	0 56	17 43	1 7	12 32	1 0	5 29	2 19	20 11	0 8	22 3
T 31	8n51	22s 1	1s21	2s48	1s32	15n38	0n57	17s55	1s 7	12s35	0n59	5s31	2n19	20s11	0n 8	22s 3

Julian Day Number = 2445182.5, Delta T = 52.62 sec
 Ecliptic obliquity = 23°26'28", Nutation = - 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°29'49", Lahiri = 23°36'50"

ASTRODIENST EPHEMERIS for the year 1982

geocentric

SEPTEMBER 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 39 19	8 ^h 14'15"	9 ^h 22'	4 ^h 43'	21 ^h 02'29"	17 ^h 11'21"	6 ^h 11' 8"	19 ^h 40'	0 ^h 48'	24 ^h 17'	25 ^h 2'	12 ^h 12' 2"	10 ^h 19'	8 ^h 30'	27 ^h 44'	W 1
T 2	22 43 16	9 ^h 12'18"	21 ^h 37'	5 ^h 51'	22 ^h 43'	18 ^h 0'	6 ^h 18'	19 ^h 46'	0 ^h 49'	24 ^h 17'	25 ^h 4'	11 ^h 56'	10 ^h 16'	8 ^h 7'	27 ^h 44'	T 2
F 3	22 47 12	10 ^h 10'22"	4 ^h 16'	6 ^h 57'	23 ^h 57'	18 ^h 39'	6 ^h 28'	19 ^h 53'	0 ^h 50'	24 ^h 17'	25 ^h 6'	11 ^h 48'	10 ^h 13'	8 ^h 14'	27 ^h 44'	F 3
S 4	22 51 9	11 ^h 8'28"	16 ^h 49'	8 ^h 2'	25 ^h 11'	19 ^h 18'	6 ^h 37'	19 ^h 59'	0 ^h 51'	24 ^h 16'	25 ^h 8'	11 ^h 38'	10 ^h 9'	8 ^h 20'	27 ^h 44'	S 4
S 5	22 55 5	12 ^h 6'35"	29 ^h 47'	9 ^h 3'	26 ^h 25'	19 ^h 57'	6 ^h 47'	20 ^h 5'	0 ^h 53'	24 ^h 16'	25 ^h 10'	11 ^h 28'	10 ^h 6'	8 ^h 27'	27 ^h 44'	S 5
M 6	22 59 2	13 ^h 4'44"	12 ^h 59'	10 ^h 3'	27 ^h 39'	20 ^h 36'	6 ^h 57'	20 ^h 11'	0 ^h 54'	24 ^h 16'	25 ^h 12'	11 ^h 17'	10 ^h 3'	8 ^h 34'	27 ^h 43'	M 6
T 7	23 2 59	14 ^h 2'56"	26 ^h 22'	10 ^h 59'	28 ^h 53'	21 ^h 15'	7 ^h 7'	20 ^h 18'	0 ^h 56'	24 ^h 16'	25 ^h 14'	11 ^h 8'	10 ^h 0'	8 ^h 40'	27 ^h 43'	T 7
W 8	23 6 55	15 ^h 1'09"	9 ^h 57'	11 ^h 53'	0 ^h 11' 7"	21 ^h 55'	7 ^h 18'	20 ^h 24'	0 ^h 57'	24 ^h 16'	25 ^h 16'	11 ^h 2'	9 ^h 57'	8 ^h 47'	27 ^h 43'	W 8
T 9	23 10 52	15 ^h 59'24"	23 ^h 41'	12 ^h 44'	1 ^h 21'	22 ^h 34'	7 ^h 28'	20 ^h 30'	0 ^h 59'	24 ^h 17'	25 ^h 18'	10 ^h 57'	9 ^h 54'	8 ^h 54'	27 ^h 42'	T 9
F 10	23 14 48	16 ^h 57'41"	7 ^h 11'34"	13 ^h 31'	2 ^h 36'	23 ^h 14'	7 ^h 38'	20 ^h 37'	1 ^h 0'	24 ^h 17'	25 ^h 20'	10 ^h 55'	9 ^h 50'	9 ^h 0'	27 ^h 42'	F 10
S 11	23 18 45	17 ^h 56'01"	21 ^h 35'	14 ^h 15'	3 ^h 50'	23 ^h 54'	7 ^h 49'	20 ^h 43'	1 ^h 2'	24 ^h 17'	25 ^h 22'	10 ^h 55'	9 ^h 47'	9 ^h 7'	27 ^h 41'	S 11
S 12	23 22 41	18 ^h 54'22"	5 ^h 54'	14 ^h 56'	5 ^h 4'	24 ^h 34'	7 ^h 59'	20 ^h 50'	1 ^h 3'	24 ^h 17'	25 ^h 24'	10 ^h 55'	9 ^h 44'	9 ^h 13'	27 ^h 41'	S 12
M13	23 26 38	19 ^h 52'46"	19 ^h 59'	15 ^h 32'	6 ^h 18'	25 ^h 14'	8 ^h 10'	20 ^h 57'	1 ^h 5'	24 ^h 17'	25 ^h 26'	10 ^h 55'	9 ^h 41'	9 ^h 20'	27 ^h 40'	M13
T 14	23 30 34	20 ^h 51'12"	4 ^h 02'20"	16 ^h 5'	7 ^h 33'	25 ^h 54'	8 ^h 21'	21 ^h 3'	1 ^h 7'	24 ^h 17'	25 ^h 28'	10 ^h 53'	9 ^h 38'	9 ^h 27'	27 ^h 40'	T 14
W15	23 34 31	21 ^h 49'40"	18 ^h 41'	16 ^h 32'	8 ^h 47'	26 ^h 34'	8 ^h 31'	21 ^h 10'	1 ^h 9'	24 ^h 18'	25 ^h 30'	10 ^h 49'	9 ^h 35'	9 ^h 33'	27 ^h 39'	W15
T 16	23 38 28	22 ^h 48'10"	3 ^h 11' 0"	16 ^h 55'	10 ^h 1'	27 ^h 15'	8 ^h 42'	21 ^h 16'	1 ^h 11'	24 ^h 18'	25 ^h 32'	10 ^h 41'	9 ^h 31'	9 ^h 40'	27 ^h 38'	T 16
F 17	23 42 24	23 ^h 46'42"	17 ^h 11'	17 ^h 13'	11 ^h 16'	27 ^h 55'	8 ^h 53'	21 ^h 23'	1 ^h 13'	24 ^h 18'	25 ^h 34'	10 ^h 32'	9 ^h 28'	9 ^h 47'	27 ^h 37'	F 17
S 18	23 46 21	24 ^h 45'16"	1 ^h 8'	17 ^h 25'	12 ^h 30'	28 ^h 36'	9 ^h 4'	21 ^h 30'	1 ^h 15'	24 ^h 19'	25 ^h 36'	10 ^h 20'	9 ^h 25'	9 ^h 53'	27 ^h 36'	S 18
S 19	23 50 17	25 ^h 43'51"	14 ^h 46'	17 ^h 31'	13 ^h 45'	29 ^h 17'	9 ^h 15'	21 ^h 37'	1 ^h 17'	24 ^h 19'	25 ^h 38'	10 ^h 8'	9 ^h 22'	10 ^h 0'	27 ^h 35'	S 19
M20	23 54 14	26 ^h 42'29"	28 ^h 4'	17 ^h 30'	14 ^h 59'	29 ^h 58'	9 ^h 27'	21 ^h 44'	1 ^h 19'	24 ^h 20'	25 ^h 40'	9 ^h 57'	9 ^h 19'	10 ^h 7'	27 ^h 34'	M20
T 21	23 58 10	27 ^h 41'08"	11 ^h 11' 0"	17 ^h 23'	16 ^h 14'	0 ^h 47'39"	9 ^h 38'	21 ^h 50'	1 ^h 21'	24 ^h 20'	25 ^h 43'	9 ^h 48'	9 ^h 15'	10 ^h 13'	27 ^h 33'	T 21
W22	0 2 7	28 ^h 39'49"	23 ^h 34'	17 ^h 10'	17 ^h 28'	1 ^h 20'	9 ^h 49'	21 ^h 57'	1 ^h 23'	24 ^h 21'	25 ^h 45'	9 ^h 41'	9 ^h 12'	10 ^h 20'	27 ^h 32'	W22
T 23	0 6 3	29 ^h 38'32"	5 ^h 47'51"	16 ^h 49'	18 ^h 43'	2 ^h 1'	10 ^h 1'	22 ^h 4'	1 ^h 25'	24 ^h 21'	25 ^h 47'	9 ^h 36'	9 ^h 9'	10 ^h 27'	27 ^h 31'	T 23
F 24	0 10 0	0 ^h 37'17"	17 ^h 52'	16 ^h 21'	19 ^h 58'	2 ^h 42'	10 ^h 12'	22 ^h 11'	1 ^h 27'	24 ^h 22'	25 ^h 49'	9 ^h 34'	9 ^h 6'	10 ^h 33'	27 ^h 29'	F 24
S 25	0 13 57	1 ^h 36'03"	29 ^h 45'	15 ^h 45'	21 ^h 12'	3 ^h 24'	10 ^h 24'	22 ^h 18'	1 ^h 29'	24 ^h 22'	25 ^h 51'	9 ^h 34'	9 ^h 3'	10 ^h 40'	27 ^h 28'	S 25
S 26	0 17 53	2 ^h 34'51"	11 ^h 33'	15 ^h 3'	22 ^h 27'	4 ^h 5'	10 ^h 35'	22 ^h 25'	1 ^h 32'	24 ^h 23'	25 ^h 54'	9 ^h 34'	9 ^h 0'	10 ^h 46'	27 ^h 27'	S 26
M27	0 21 50	3 ^h 33'41"	23 ^h 22'	14 ^h 13'	23 ^h 41'	4 ^h 47'	10 ^h 47'	22 ^h 32'	1 ^h 34'	24 ^h 24'	25 ^h 56'	9 ^h 33'	8 ^h 56'	10 ^h 53'	27 ^h 25'	M27
T 28	0 25 46	4 ^h 32'33"	5 ^h 41'19"	13 ^h 18'	24 ^h 56'	5 ^h 29'	10 ^h 59'	22 ^h 39'	1 ^h 36'	24 ^h 24'	25 ^h 58'	9 ^h 31'	8 ^h 53'	11 ^h 0'	27 ^h 24'	T 28
W29	0 29 43	5 ^h 31'26"	17 ^h 27'	12 ^h 18'	26 ^h 11'	6 ^h 11'	11 ^h 10'	22 ^h 46'	1 ^h 39'	24 ^h 25'	26 ^h 0'	9 ^h 27'	8 ^h 50'	11 ^h 6'	27 ^h 22'	W29
T 30	0 33 39	6 ^h 30'21"	29 ^h 50'	11 ^h 13'	27 ^h 26'	6 ^h 47'52"	11 ^h 11'22"	22 ^h 53'	1 ^h 41'	24 ^h 26'	26 ^h 3'	9 ^h 20'	8 ^h 47'	11 ^h 13'	27 ^h 21'	T 30

Day	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♂
W 1	8n29	20s11	2s21	3s25	1s41	15n17	0n59	18s 6	1s 8	12s38	0n59	5s33	2n19	20s11	0n 8	22s 3	1n17	5n50	16n40	22n54
T 2	8 7	17 23	3 15	4 0	1 50	14 54	1 1	18 18	1 9	12 42	0 59	5 36	2 19	20 11	0 8	22 3	1 16	5 49	16 39	22 54
F 3	7 45	13 45	4 1	4 35	1 59	14 32	1 3	18 29	1 9	12 45	0 59	5 38	2 18	20 12	0 8	22 3	1 16	5 48	16 39	22 55
S 4	7 23	9 27	4 36	5 9	2 8	14 8	1 4	18 40	1 10	12 48	0 59	5 41	2 18	20 12	0 8	22 3	1 16	5 47	16 39	22 56
S 5	7 1	4 38	4 58	5 41	2 17	13 45	1 6	18 51	1 10	12 52	0 58	5 43	2 18	20 12	0 8	22 3	1 16	5 46	16 38	22 57
M 6	6 39	0n28	5 4	6 13	2 26	13 21	1 8	19 2	1 11	12 55	0 58	5 46	2 18	20 13	0 8	22 3	1 16	5 45	16 38	22 58
T 7	6 17	5 37	4 53	6 43	2 35	12 57	1 9	19 13	1 11	12 59	0 58	5 48	2 18	20 13	0 8	22 3	1 16	5 44	16 37	22 58
W 8	5 54	10 35	4 26	7 12	2 43	12 32	1 11	19 24	1 12	13 2	0 58	5 51	2 18	20 13	0 8	22 3	1 16	5 43	16 37	22 59
T 9	5 32	15 5	3 44	7 40	2 52	12 7	1 12	19 35	1 12	13 6	0 58	5 53	2 18	20 14	0 8	22 3	1 16	5 42	16 37	22 59
F 10	5 9	18 49	2 48	8 6	3 0	11 41	1 13	19 45	1 12	13 9	0 58	5 56	2 18	20 14	0 8	22 3	1 16	5 41	16 36	23 0
S 11	4 46	21 30	1 41	8 30	3 7	11 16	1 15	19 56	1 13	13 13	0 57	5 58	2 17	20 14	0 8	22 3	1 16	5 40	16 36	23 0
S 12	4 23	22 51	0 28	8 53	3 15	10 50	1 16	20 6	1 13	13 16	0 57	6 1	2 17	20 15	0 8	22 3	1 16	5 39	16 36	23 0
M13	4 1	22 45	0n48	9 13	3 22	10 23	1 17	20 16	1 14	13 20	0 57	6 3	2 17	20 15	0 8	22 3	1 16	5 38	16 35	23 0
T 14	3 38	21 8	2 1	9 32	3 29	9 57	1 18	20 26	1 14	13 23	0 57	6 6	2 17	20 15	0 8	22 3	1 16	5 37	16 35	23 0
W15	3 15	18 11	3 6	9 48	3 35	9 30	1 19	20 36	1 15	13 27	0 57	6 8	2 17	20 16	0 8	22 3	1 16	5 36	16 35	23 0
T 16	2 51	14 7	3 59	10 2	3 40	9 3	1 20	20 46	1 15	13 31	0 57	6 11	2 17	20 16	0 8	22 3	1 16	5 35	16 34	23 1
F 17	2 28	9 19	4 37	10 14	3 45	8 35	1 21	20 55	1 15	13 34	0 56	6 14	2 17	20 17	0 8	22 3	1 16	5 34	16 34	23 1
S 18	2 5	4 6	4 58	10 22	3 49	8 8	1 22	21 5	1 16	13 38	0 56	6 16	2 17	20 17	0 8	22 4	1 16	5 33	16 34	23 2
S 19	1 42	1s12	5 1	10 27	3 53	7 40	1 23	21 14	1 16	13 42	0 56	6 19	2 17	20 17	0 8	22 4	1 16	5 32	16 34	23 3
M20	1 19	6 19	4 47	10 29	3 55	7 12	1 23	21 24	1 17	13 45	0 56	6 21	2 16	20 18	0 8	22 4	1 16	5 31	16 33	23 4
T 21	0 55	11 2	4 19	10 28	3 56	6 43	1 24	21 33	1 17	13 49	0 56	6 24	2 16	20 18	0 8	22 4	1 16	5 30	16 33	23 5
W22	0 32	15 9	3 38	10 22	3 56	6 15	1 24	21 41	1 17	13 53	0 56	6 27	2 16	20 19	0 8	22 4	1 15	5 29	16 33	23 5
T 23	0 9	18 31	2 49	10 13	3 55	5 46	1 25	21 50	1 18	13 56	0 55	6 29	2 16	20 19	0 8	22 4	1 15	5 28	16 32	23 6
F 24	0s15	21 1	1 52	9 59	3 52	5 17	1 25	21 59	1 18	14 0	0 55	6 32	2 16	20 20	0 8	22 4	1 15	5 27	16 32	23 6
S 25	0 38	22 35	0 52	9 42	3 47	4 48	1 26	22 7	1 18	14 4	0 55	6 35	2 16	20 20	0 8	22 4	1 15	5 26	16 32	23 6
S 26	1 2	23 7	0s11	9 19	3 41	4 19	1 26	22 15	1 19	14 8	0 55	6 37	2 16	20 21	0 8	22 4	1 15	5 25	16 32	23 6
M27	1 25	22 37	1 13	8 53	3 33	3 50	1 26	22 23	1 19	14 11	0 55	6 40	2 16	20 21	0 8	22 4	1 15	5 24	16 32	23 6
T 28	1 48	21 4	2 12	8 22	3 33	3 20	1 26	22 31	1 19	14 15	0 55	6 43	2 16	20 22	0 8	22 4	1 15	5 23	16 31	23 6
W29	2 12	18 34	3 6	7 47	3 11	2 51	1 27	22 39	1 20	14 19	0 55	6 45	2 16	20 22	0 8	22 4	1 15	5 22	16 31	23 6
T 30	2s35	15s 9	3s53	7s 9	2s57	2n21	1n27	22s46	1s20	14s23	0n54	6s48	2n16	20s23	0n 8	22s 4	1n15	5n21	16n31	23n 7

ASTRODIENST EPHEMERIS for the year 1982
geocentric

OCTOBER 1982

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 37 36	7♂29°18	12♂32	10°R 6	28♂40	7♂34	11♂34	23♂1	1♂44	24♂27	26♂5	9°R10	8♂44	11♂20	27°R19	F 1
S 2	0 41 32	8°28'17	25°32	8♂57	29°55	8°17	11°46	23°8	1°46	24°28	26°7	8♂58	8°40	11°26	27♂17	S 2
S 3	0 45 29	9°27'18	8♂52	7°49	1♂10	8°59	11°58	23°15	1°49	24°28	26°10	8°45	8°37	11°33	27°15	S 3
M 4	0 49 25	10°26'20	22°27	6°44	2°25	9°41	12°10	23°22	1°51	24°29	26°12	8°33	8°34	11°40	27°13	M 4
T 5	0 53 22	11°25'25	6♂16	5°43	3°40	10°24	12°22	23°29	1°54	24°30	26°14	8°21	8°31	11°46	27°12	T 5
W 6	0 57 19	12°24'33	20°15	4°48	4°55	11°6	12°35	23°36	1°57	24°31	26°17	8°13	8°28	11°53	27°10	W 6
T 7	1 1 15	13°23'42	4♂19	4°0	6°9	11°49	12°47	23°44	2°0	24°32	26°19	8°7	8°25	12°0	27°8	T 7
F 8	1 5 12	14°22'54	18°26	3°21	7°24	12°31	12°59	23°51	2°2	24°33	26°21	8°4	8°21	12°6	27°6	F 8
S 9	1 9 8	15°22'08	2♂33	2°52	8°39	13°14	13°11	23°58	2°5	24°34	26°24	8°3	8°18	12°13	27°4	S 9
S 10	1 13 5	16°21'24	16°40	2°33	9°54	13°57	13°24	24°5	2°8	24°35	26°26	8°3	8°15	12°19	27°1	S 10
M 11	1 17 1	17°20'43	0♂45	2°D25	11°9	14°40	13°36	24°13	2°11	24°36	26°29	8°3	8°12	12°26	26°59	M 11
T 12	1 20 58	18°20'04	14°47	2°28	12°24	15°23	13°49	24°20	2°14	24°38	26°31	8°0	8°9	12°33	26°57	T 12
W 13	1 24 54	19°19'28	28°45	2°42	13°39	16°6	14°1	24°27	2°17	24°39	26°33	7°56	8°6	12°39	26°55	W 13
T 14	1 28 51	20°18'53	12♂38	3°6	14°54	16°49	14°14	24°34	2°20	24°40	26°36	7°48	8°2	12°46	26°52	T 14
F 15	1 32 48	21°18'21	26°23	3°40	16°9	17°33	14°26	24°42	2°23	24°41	26°38	7°38	7°59	12°53	26°50	F 15
S 16	1 36 44	22°17'51	9♂56	4°22	17°24	18°16	14°39	24°49	2°26	24°42	26°41	7°26	7°56	12°59	26°48	S 16
S 17	1 40 41	23°17'23	23°15	5°13	18°40	19°0	14°52	24°56	2°29	24°44	26°43	7°14	7°53	13°6	26°45	S 17
M 18	1 44 37	24°16'57	6♂18	6°12	19°55	19°43	15°5	25°4	2°32	24°45	26°45	7°2	7°50	13°13	26°43	M 18
T 19	1 48 34	25°16'33	19°3	7°17	21°10	20°27	15°17	25°11	2°35	24°46	26°48	6°52	7°46	13°19	26°40	T 19
W 20	1 52 30	26°16'11	1♂31	8°28	22°25	21°11	15°30	25°18	2°38	24°48	26°50	6°44	7°43	13°26	26°37	W 20
T 21	1 56 27	27°15'51	13°44	9°44	23°40	21°54	15°43	25°26	2°41	24°49	26°53	6°39	7°40	13°33	26°35	T 21
F 22	2 0 23	28°15'33	25°44	11°4	24°55	22°38	15°56	25°33	2°44	24°51	26°55	6°36	7°37	13°39	26°32	F 22
S 23	2 4 20	29°15'17	7♂35	12°29	26°10	23°22	16°9	25°40	2°48	24°52	26°57	6°D36	7°34	13°46	26°29	S 23
S 24	2 8 17	0♂15'02	19°22	13°56	27°26	24°6	16°22	25°47	2°51	24°53	27°0	6°36	7°31	13°53	26°27	S 24
M 25	2 12 13	1°14'49	1♂11	15°26	28°41	24°51	16°35	25°55	2°54	24°55	27°2	6°R36	7°27	13°59	26°24	M 25
T 26	2 16 10	2°14'38	13°7	16°58	29°56	25°35	16°48	26°2	2°57	24°56	27°5	6°36	7°24	14°6	26°21	T 26
W 27	2 20 6	3°14'28	25°16	18°32	1♂11	26°19	17°1	26°9	3°1	24°58	27°7	6°33	7°21	14°12	26°18	W 27
T 28	2 24 3	4°14'20	7♂42	20°8	2°26	27°4	17°14	26°16	3°4	25°0	27°9	6°28	7°18	14°19	26°16	T 28
F 29	2 27 59	5°14'14	20°29	21°44	3°41	27°48	17°27	26°24	3°7	25°1	27°12	6°21	7°15	14°26	26°13	F 29
S 30	2 31 56	6°14'09	3♂39	23°21	4°57	28°32	17°40	26°31	3°11	25°3	27°14	6°12	7°12	14°32	26°10	S 30
S 31	2 35 52	7♂14'06	17♂13	24♂59	6♂12	29♂17	17♂53	26♂38	3♂14	25♂4	27♂17	6♂2	7♂8	14♂39	26♂7	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	2s58	11s 0	4s29	6s28	2s42	1n51	1n27	22s54	1s20	14s27	0n54	6s51	2n16	20s23	0n 8	22s 5
S 2	3 22	6 14	4 52	5 46	2 24	1 21	1 26	23 1	1 20	14 30	0 54	6 53	2 16	20 24	0 8	22 5
S 3	3 45	1 5	5 0	5 2	2 6	0 51	1 26	23 8	1 21	14 34	0 54	6 56	2 16	20 24	0 8	22 5
M 4	4 8	4n13	4 52	4 18	1 46	0 21	1 26	23 14	1 21	14 38	0 54	6 59	2 16	20 25	0 8	22 5
T 5	4 31	9 26	4 26	3 35	1 26	0s 9	1 26	23 21	1 21	14 42	0 54	7 1	2 16	20 25	0 8	22 5
W 6	4 54	14 12	3 44	2 55	1 6	0 39	1 25	23 27	1 21	14 46	0 54	7 4	2 15	20 26	0 8	22 5
T 7	5 17	18 15	2 48	2 17	0 45	1 9	1 25	23 33	1 22	14 49	0 54	7 7	2 15	20 26	0 8	22 5
F 8	5 40	21 15	1 42	1 43	0 25	1 39	1 25	23 39	1 22	14 53	0 53	7 9	2 15	20 27	0 8	22 5
S 9	6 3	22 56	0 29	1 14	0 6	2 9	1 24	23 45	1 22	14 57	0 53	7 12	2 15	20 27	0 8	22 5
S 10	6 26	23 9	0n45	0 50	0n12	2 39	1 23	23 50	1 22	15 1	0 53	7 15	2 15	20 28	0 8	22 5
M 11	6 49	21 54	1 57	0 31	0 30	3 9	1 23	23 55	1 22	15 5	0 53	7 17	2 15	20 29	0 8	22 5
T 12	7 11	19 17	3 1	0 17	0 45	3 39	1 22	24 0	1 23	15 9	0 53	7 20	2 15	20 29	0 7	22 5
W 13	7 34	15 34	3 54	0 10	1 0	4 8	1 21	24 5	1 23	15 12	0 53	7 23	2 15	20 30	0 7	22 6
T 14	7 56	11 1	4 33	0 7	1 13	4 38	1 20	24 10	1 23	15 16	0 53	7 25	2 15	20 30	0 7	22 6
F 15	8 19	5 58	4 56	0 10	1 24	5 8	1 19	24 14	1 23	15 20	0 53	7 28	2 15	20 31	0 7	22 6
S 16	8 41	0 41	5 1	0 18	1 34	5 38	1 18	24 18	1 23	15 24	0 53	7 31	2 15	20 32	0 7	22 6
S 17	9 3	4s33	4 50	0 31	1 42	6 7	1 17	24 22	1 23	15 28	0 52	7 33	2 15	20 32	0 7	22 6
M 18	9 25	9 28	4 23	0 48	1 49	6 37	1 16	24 26	1 23	15 31	0 52	7 36	2 15	20 33	0 7	22 6
T 19	9 47	13 53	3 44	1 9	1 54	7 6	1 15	24 29	1 24	15 35	0 52	7 39	2 15	20 33	0 7	22 6
W 20	10 8	17 36	2 55	1 33	1 58	7 35	1 14	24 32	1 24	15 39	0 52	7 41	2 15	20 34	0 7	22 6
T 21	10 30	20 29	1 59	2 0	2 1	8 4	1 13	24 35	1 24	15 43	0 52	7 44	2 15	20 35	0 7	22 6
F 22	10 51	22 25	0 58	2 30	2 3	8 33	1 11	24 38	1 24	15 47	0 52	7 47	2 15	20 35	0 7	22 6
S 23	11 13	23 19	0s 5	3 2	2 4	9 1	1 10	24 40	1 24	15 50	0 52	7 49	2 15	20 36	0 7	22 7
S 24	11 34	23 10	1 8	3 36	2 4	9 29	1 9	24 43	1 24	15 54	0 52	7 52	2 15	20 37	0 7	22 7
M 25	11 55	21 58	2 7	4 11	2 3	9 58	1 7	24 44	1 24	15 58	0 52	7 55	2 15	20 37	0 7	22 7
T 26	12 15	19 47	3 2	4 48	2 1	10 26	1 6	24 46	1 24	16 2	0 52	7 57	2 15	20 38	0 7	22 7
W 27	12 36	16 42	3 50	5 26	1 59	10 53	1 4	24 48	1 24	16 6	0 52	8 0	2 15	20 39	0 7	22 7
T 28	12 56	12 49	4 28	6 5	1 56	11 21	1 2	24 49	1 24	16 9	0 51	8 2	2 15	20 39	0 7	22 7
F 29	13 16	8 16	4 53	6 44	1 52	11 48	1 1	24 50	1 24	16 13	0 51	8 5	2 15	20 40	0 7	22 7
S 30	13 36	3 12	5 4	7 24	1 48	12 15	0 59	24 50	1 24	16 17	0 51	8 7	2 15	20 41	0 7	22 7
S 31	13s56	2n 9	4s59	8s 4	1n44	12s41	0n57	24s51	1s24	16s21	0n51	8s10	2n15	20s41	0n 7	22s 7

Julian Day Number = 2445243.5, Delta T = 52.75 sec
Ecliptic obliquity = 23°26'29, Nutation = - 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°29'58, Lahiri = 23°36'58

ASTRODIENST EPHEMERIS for the year 1982
geocentric

NOVEMBER 1982

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	2 39 49	8♍14°05'	1♊ 8	26♊38	7♍27	0♉ 2	18♌ 6	26♊45	3♈18	25♌ 6	27♊19	5°R52	7♏ 5	14♉46	26°R 4	M 1
T 2	2 43 46	9°14'06	15°21	28°16	8°42	0°46	18°19	26°53	3°21	25° 8	27°21	5♏43	7° 2	14°52	26♊ 1	T 2
W 3	2 47 42	10°14'09	29°46	29°55	9°58	1°31	18°32	27° 0	3°24	25°10	27°24	5°37	6°59	14°59	25°58	W 3
T 4	2 51 39	11°14'13	14♊17	1♌34	11°13	2°16	18°45	27° 7	3°28	25°11	27°26	5°32	6°56	15° 6	25°55	T 4
F 5	2 55 35	12°14'20	28°48	3°13	12°28	3° 1	18°59	27°14	3°31	25°13	27°29	5°D30	6°52	15°12	25°52	F 5
S 6	2 59 32	13°14'29	13♏14	4°52	13°43	3°46	19°12	27°21	3°35	25°15	27°31	5°30	6°49	15°19	25°49	S 6
S 7	3 3 28	14°14'40	27°32	6°30	14°59	4°31	19°25	27°28	3°39	25°17	27°33	5°31	6°46	15°26	25°46	S 7
M 8	3 7 25	15°14'53	11♊29	8° 9	16°14	5°16	19°38	27°35	3°42	25°18	27°36	5°R32	6°43	15°32	25°43	M 8
T 9	3 11 21	16°15'08	25°36	9°47	17°29	6° 1	19°51	27°42	3°46	25°20	27°38	5°32	6°40	15°39	25°39	T 9
W10	3 15 18	17°15'25	9♐20	11°25	18°45	6°47	20° 5	27°50	3°49	25°22	27°40	5°30	6°37	15°46	25°36	W10
T 11	3 19 15	18°15'44	22°53	13° 2	20° 0	7°32	20°18	27°57	3°53	25°24	27°42	5°25	6°33	15°52	25°33	T 11
F 12	3 23 11	19°16'05	6♊14	14°39	21°15	8°17	20°31	28° 4	3°56	25°26	27°45	5°19	6°30	15°59	25°30	F 12
S 13	3 27 8	20°16'28	19°22	16°17	22°31	9° 3	20°44	28°10	4° 0	25°28	27°47	5°11	6°27	16° 5	25°27	S 13
S 14	3 31 4	21°16'53	2♌18	17°53	23°46	9°48	20°58	28°17	4° 4	25°30	27°49	5° 3	6°24	16°12	25°24	S 14
M15	3 35 1	22°17'19	15° 1	19°30	25° 1	10°34	21°11	28°24	4° 7	25°32	27°52	4°55	6°21	16°19	25°20	M15
T 16	3 38 57	23°17'48	27°30	21° 6	26°17	11°19	21°24	28°31	4°11	25°34	27°54	4°48	6°18	16°25	25°17	T 16
W17	3 42 54	24°18'17	9♈46	22°42	27°32	12° 5	21°37	28°38	4°15	25°36	27°56	4°43	6°14	16°32	25°14	W17
T 18	3 46 50	25°18'49	21°51	24°17	28°47	12°51	21°51	28°45	4°18	25°38	27°58	4°40	6°11	16°39	25°11	T 18
F 19	3 50 47	26°19'21	3♉47	25°53	0♈ 3	13°36	22° 4	28°52	4°22	25°40	28° 0	4°D39	6° 8	16°45	25° 8	F 19
S 20	3 54 44	27°19'56	15°36	27°28	1°18	14°22	22°17	28°58	4°26	25°42	28° 3	4°40	6° 5	16°52	25° 5	S 20
S 21	3 58 40	28°20'31	27°23	29° 3	2°34	15° 8	22°30	29° 5	4°29	25°44	28° 5	4°42	6° 2	16°59	25° 1	S 21
M22	4 2 37	29°21'08	9♊11	0♈38	3°49	15°54	22°44	29°12	4°33	25°46	28° 7	4°43	5°58	17° 5	24°58	M22
T 23	4 6 33	0♈21'45	21° 6	2°12	5° 4	16°40	22°57	29°18	4°37	25°48	28° 9	4°45	5°55	17°12	24°55	T 23
W24	4 10 30	1°22'24	3♊12	3°46	6°20	17°26	23°10	29°25	4°40	25°50	28°11	4°R45	5°52	17°19	24°52	W24
T 25	4 14 26	2°23'04	15°35	5°21	7°35	18°12	23°23	29°32	4°44	25°52	28°13	4°44	5°49	17°25	24°49	T 25
F 26	4 18 23	3°23'46	28°19	6°55	8°50	18°58	23°37	29°38	4°48	25°54	28°15	4°42	5°46	17°32	24°46	F 26
S 27	4 22 19	4°24'28	11°V28	8°29	10° 6	19°44	23°50	29°44	4°52	25°56	28°17	4°38	5°43	17°39	24°42	S 27
S 28	4 26 16	5°25'11	25° 4	10° 2	11°21	20°31	24° 3	29°51	4°55	25°59	28°19	4°34	5°39	17°45	24°39	S 28
M29	4 30 13	6°25'55	9♊ 6	11°36	12°36	21°17	24°16	29°57	4°59	26° 1	28°21	4°29	5°36	17°52	24°36	M29
T 30	4 34 9	7♈26'41	23♊32	13♈10	13♈52	22♉ 3	24♌29	0♌ 4	5♈ 3	26♈ 3	28♊23	4♏25	5♏33	17♉58	24♉33	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	decl	lat
M 1	14s15	7n33	4s36	8s44	1n39	13s 8	0n55	24s51	1s24	16s24	0n51	8s13	2n16	20s42	0n 7	22s 7	1n14	4n54	16n29	23n19	23n15	23s19	16n 8	3s13			
T 2	14 34	12 41	3 56	9 24	1 34	13 34	0 54	24 51	1 24	16 28	0 51	8 15	2 16	20 43	0 7	22 7	1 14	4 53	16 30	23 19	23 15	23 19	16 8	3 13			
W 3	14 53	17 11	3 0	10 4	1 28	13 59	0 52	24 50	1 24	16 32	0 51	8 18	2 16	20 43	0 7	22 8	1 14	4 52	16 30	23 19	23 15	23 19	16 7	3 14			
T 4	15 12	20 40	1 51	10 44	1 23	14 24	0 50	24 50	1 24	16 35	0 51	8 20	2 16	20 44	0 7	22 8	1 14	4 52	16 30	23 20	23 16	23 19	16 6	3 14			
F 5	15 31	22 50	0 36	11 23	1 17	14 49	0 48	24 49	1 24	16 39	0 51	8 23	2 16	20 45	0 7	22 8	1 14	4 51	16 30	23 20	23 16	23 19	16 5	3 14			
S 6	15 49	23 28	0n42	12 2	1 11	15 14	0 46	24 47	1 24	16 43	0 51	8 25	2 16	20 45	0 7	22 8	1 14	4 50	16 30	23 20	23 16	23 19	16 4	3 14			
S 7	16 7	22 33	1 56	12 40	1 4	15 38	0 44	24 46	1 24	16 46	0 51	8 28	2 16	20 46	0 7	22 8	1 13	4 50	16 30	23 20	23 16	23 19	16 3	3 14			
M 8	16 25	20 12	3 2	13 18	0 58	16 2	0 42	24 44	1 24	16 50	0 51	8 30	2 16	20 47	0 7	22 8	1 13	4 49	16 30	23 20	23 16	23 19	16 2	3 14			
T 9	16 42	16 42	3 57	13 56	0 51	16 25	0 40	24 42	1 24	16 54	0 51	8 33	2 16	20 47	0 7	22 8	1 13	4 48	16 31	23 20	23 16	23 19	16 2	3 14			
W10	16 59	12 21	4 37	14 33	0 45	16 48	0 37	24 40	1 24	16 57	0 51	8 35	2 16	20 48	0 7	22 8	1 13	4 48	16 31	23 20	23 17	23 20	16 1	3 15			
T 11	17 16	7 26	5 1	15 9	0 38	17 11	0 35	24 37	1 24	17 1	0 50	8 37	2 16	20 49	0 7	22 8	1 13	4 47	16 31	23 20	23 17	23 20	16 0	3 15			
F 12	17 33	2 15	5 8	15 44	0 31	17 33	0 33	24 35	1 24	17 4	0 50	8 40	2 16	20 49	0 7	22 8	1 13	4 47	16 31	23 20	23 17	23 20	15 59	3 15			
S 13	17 49	2s58	4 59	16 19	0 25	17 54	0 31	24 31	1 24	17 8	0 50	8 42	2 16	20 50	0 7	22 9	1 13	4 46	16 31	23 20	23 17	23 20	15 58	3 15			
S 14	18 5	7 58	4 34	16 53	0 18	18 15	0 29	24 28	1 24	17 11	0 50	8 45	2 16	20 51	0 7	22 9	1 13	4 45	16 31	23 21	23 17	23 20	15 57	3 15			
M15	18 21	12 34	3 57	17 26	0 11	18 36	0 26	24 24	1 23	17 15	0 50	8 47	2 16	20 51	0 7	22 9	1 13	4 45	16 32	23 21	23 17	23 20	15 57	3 15			
T 16	18 36	16 33	3 8	17 58	0 4	18 56	0 24	24 21	1 23	17 18	0 50	8 49	2 17	20 52	0 7	22 9	1 13	4 44	16 32	23 21	23 17	23 20	15 56	3 15			
W17	18 51	19 45	2 11	18 29	0s 2	19 15	0 22	24 16	1 23	17 22	0 50	8 52	2 17	20 53	0 7	22 9	1 13	4 44	16 32	23 21	23 18	23 20	15 55	3 15			
T 18	19 6	22 2	1 9	19 0	0 9	19 35	0 19	24 12	1 23	17 25	0 50	8 54	2 17	20 53	0 7	22 9	1 13	4 43	16 32	23 22	23 18	23 20	15 54	3 15			
F 19	19 20	23 18	0 5	19 29	0 16	19 53	0 17	24 7	1 23	17 29	0 50	8 56	2 17	20 54	0 7	22 9	1 13	4 43	16 33	23 22	23 18	23 20	15 53	3 15			
S 20	19 34	23 31	0s59	19 58	0 22	20 11	0 15	24 2	1 23	17 32	0 50	8 59	2 17	20 55	0 7	22 9	1 13	4 42	16 33	23 22	23 18	23 20	15 52	3 16			
S 21	19 48	22 40	2 1	20 25	0 29	20 28	0 12	23 57	1 23	17 36	0 50	9 1	2 17	20 56	0 7	22 9	1 13	4 42	16 33	23 21	23 18	23 20	15 51	3 16			
M22	20 1	20 49	2 58	20 52	0 35	20 45	0 10	23 51	1 22	17 39	0 50	9 3	2 17	20 56	0 7	22 9	1 13	4 41	16 33	23 21	23 18	23 20	15 51	3 16			
T 23	20 14	18 3	3 47	21 17	0 42	21 1	0 8	23 46	1 22	17 42	0 50	9 5	2 17	20 57	0 7	22 10	1 13	4 41	16 34	23 21	23 19	23 20	15 50	3 16			
W24	20 26	14 29	4 27	21 42	0 48	21 17	0 5	23 40	1 22	17 46	0 50	9 7	2 17	20 58	0 7	22 10	1 13	4 40	16 34	23 21	23 19	23 20	15 49	3 16			
T 25	20 38	10 14	4 56	22 5	0 54	21 32	0 3	23 33	1 22	17 49	0 50	9 10	2 17	20 58	0 7	22 10	1 13	4 40	16 34	23 21	23 19	23 20	15 48	3 16			
F 26	20 50	5 26	5 11	22 27	1 0	21 46	0 0	23 27	1 22	17 52	0 50	9 12	2 18	20 59	0 7	22 10	1 13	4 40	16 35	23 21	23 19	23 20	15 47	3 16			
S 27	21 2	0 14	5 11	22 48	1 6	22 0	0s 2	23 20	1 21	17 56	0 50	9 14	2 18	21 0	0 7	22 10	1 13	4 39	16 35	23 22	23 19	23 20	15 47	3 16			
S 28	21 13	5n 8	4 54	23 8	1 12	22 13	0 4	23 13	1 21	17 59	0 50	9 16	2 18	21 0	0 7	22 10	1 13	4 39	16 35	23 22	23 19	23 20	15 46	3 16			
M29	21 23	10 27	4 18	23 27	1 17	22 25	0 7	23 5	1 21	18 2	0 50	9 18	2 18	21 1	0 7	22 10	1 13	4 38	16 36	23 22	23 19	23 20	15 45	3 16			
T 30	21s33	15n20	3s26	23s45	1s23	22s37	0s 9	22s58	1s21	18s 5	0n50	9s20	2n18	21s 2	0n 7	22s10	1n13	4n38	16n36	23n22	23n19	23s20	15n44	3s16			

ASTRODIENST EPHEMERIS for the year 1982

geocentric

DECEMBER 1982

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	4 38 6	8♂27'28	8♂11'16	14♂43	15♂7 7	22♂49	24♂42	0♂10	5♂ 6	26♂5 5	28♂25	4°R22	5♂30	18♂5	24°R30	W 1
T 2	4 42 2	9°28'16	23°10	16°17	16°22	23°36	24°55	0°16	5°10	26° 7	28°27	4♂21	5°27	18°12	24♂27	T 2
F 3	4 45 59	10°29'05	8♂ 7	17°50	17°38	24°22	25° 8	0°22	5°14	26°10	28°29	4°D20	5°23	18°18	24°24	F 3
S 4	4 49 55	11°29'56	22°59	19°23	18°53	25° 8	25°21	0°28	5°17	26°12	28°31	4°21	5°20	18°25	24°21	S 4
S 5	4 53 52	12°30'47	7♂39	20°57	20° 9	25°55	25°34	0°34	5°21	26°14	28°33	4°23	5°17	18°32	24°18	S 5
M 6	4 57 48	13°31'41	22° 2	22°30	21°24	26°41	25°47	0°40	5°25	26°16	28°35	4°24	5°14	18°38	24°15	M 6
T 7	5 1 45	14°32'35	6♂ 5	24° 3	22°39	27°28	26° 0	0°46	5°28	26°18	28°37	4°25	5°11	18°45	24°12	T 7
W 8	5 5 42	15°33'31	19°49	25°36	23°55	28°15	26°13	0°52	5°32	26°21	28°39	4°R25	5° 8	18°52	24° 9	W 8
T 9	5 9 38	16°34'28	3♂13	27° 9	25°10	29° 1	26°26	0°58	5°36	26°23	28°41	4°24	5° 4	18°58	24° 6	T 9
F 10	5 13 35	17°35'26	16°20	28°42	26°25	29°48	26°39	1° 4	5°39	26°25	28°42	4°23	5° 1	19° 5	24° 3	F 10
S 11	5 17 31	18°36'25	29°10	0♂15	27°41	0♂34	26°52	1°10	5°43	26°27	28°44	4°21	4°58	19°12	24° 1	S 11
S 12	5 21 28	19°37'25	11♂46	1°48	28°56	1°21	27° 5	1°15	5°47	26°30	28°46	4°18	4°55	19°18	23°58	S 12
M13	5 25 24	20°38'27	24° 9	3°21	0♂12	2° 8	27°17	1°21	5°50	26°32	28°47	4°16	4°52	19°25	23°55	M13
T 14	5 29 21	21°39'29	6♂22	4°53	1°27	2°55	27°30	1°26	5°54	26°34	28°49	4°14	4°49	19°32	23°52	T 14
W15	5 33 17	22°40'33	18°26	6°26	2°42	3°41	27°43	1°32	5°58	26°36	28°51	4°13	4°45	19°38	23°49	W15
T 16	5 37 14	23°41'37	0♂22	7°58	3°58	4°28	27°55	1°37	6° 1	26°39	28°52	4°D13	4°42	19°45	23°47	T 16
F 17	5 41 11	24°42'41	12°13	9°29	5°13	5°15	28° 8	1°43	6° 5	26°41	28°54	4°13	4°39	19°51	23°44	F 17
S 18	5 45 7	25°43'47	24° 1	11° 0	6°28	6° 2	28°20	1°48	6° 8	26°43	28°56	4°13	4°36	19°58	23°42	S 18
S 19	5 49 4	26°44'52	5♂48	12°31	7°44	6°49	28°33	1°53	6°12	26°45	28°57	4°14	4°33	20° 5	23°39	S 19
M20	5 53 0	27°45'59	17°37	14° 1	8°59	7°36	28°45	1°58	6°15	26°48	28°59	4°15	4°30	20°11	23°37	M20
T 21	5 56 57	28°47'05	29°32	15°30	10°14	8°23	28°58	2° 3	6°19	26°50	29° 0	4°15	4°26	20°18	23°34	T 21
W22	6 0 53	29°48'12	11♂37	16°58	11°30	9°10	29°10	2° 8	6°22	26°52	29° 1	4°16	4°23	20°25	23°32	W22
T 23	6 4 50	0♂49'19	23°57	18°24	12°45	9°57	29°22	2°13	6°26	26°55	29° 3	4°16	4°20	20°31	23°29	T 23
F 24	6 8 47	1°50'26	6♂35	19°50	14° 0	10°44	29°35	2°18	6°29	26°57	29° 4	4°R16	4°17	20°38	23°27	F 24
S 25	6 12 43	2°51'33	19°37	21°13	15°16	11°31	29°47	2°23	6°33	26°59	29° 6	4°16	4°14	20°45	23°25	S 25
S 26	6 16 40	3°52'40	3♂ 4	22°34	16°31	12°18	29°59	2°28	6°36	27° 1	29° 7	4°D16	4°10	20°51	23°22	S 26
M27	6 20 36	4°53'47	16°58	23°53	17°46	13° 5	0♂11	2°32	6°39	27° 4	29° 8	4°16	4° 7	20°58	23°20	M27
T 28	6 24 33	5°54'55	1♂20	25° 9	19° 2	13°52	0°23	2°37	6°43	27° 6	29° 9	4°16	4° 4	21° 5	23°18	T 28
W29	6 28 29	6°56'02	16° 5	26°21	20°17	14°39	0°35	2°41	6°46	27° 8	29°11	4°16	4° 1	21°11	23°16	W29
T 30	6 32 26	7°57'10	1♂ 8	27°29	21°32	15°26	0°47	2°46	6°49	27°10	29°12	4°R16	3°58	21°18	23°14	T 30
F 31	6 36 22	8♂58'18	16♂21	28♂32	22♂47	16♂13	0♂59	2♂50	6♂53	27♂13	29♂13	4♂16	3♂55	21♂25	23♂12	F 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
W 1	21s43	19n24	2s19	24s 1	1s28	22s48	0s12	22s50	1s21	18s 9	0n50	9s22	2n18	21s 2	0n 7	22s10	1n13	4n38	16n36	23n22	23n20	23s20	15n43	3s16	
T 2	21 52	22 15	1 1	24 16	1 33	22 59	0 14	22 42	1 20	18 12	0 50	9 24	2 18	21 3	0 7	22 10	1 13	4 37	16 37	23 22	23 20	23 20	15 43	3 16	
F 3	22 1	23 32	0n21	24 30	1 38	23 8	0 16	22 33	1 20	18 15	0 49	9 26	2 18	21 4	0 7	22 10	1 13	4 37	16 37	23 22	23 20	23 20	15 42	3 16	
S 4	22 10	23 9	1 41	24 43	1 42	23 17	0 19	22 25	1 20	18 18	0 49	9 28	2 19	21 4	0 7	22 10	1 13	4 37	16 37	23 22	23 20	23 20	15 41	3 16	
S 5	22 18	21 9	2 54	24 54	1 47	23 26	0 21	22 16	1 19	18 21	0 49	9 30	2 19	21 5	0 7	22 11	1 13	4 36	16 38	23 22	23 20	23 20	15 40	3 16	
M 6	22 26	17 51	3 54	25 4	1 51	23 33	0 24	22 7	1 19	18 24	0 49	9 32	2 19	21 6	0 7	22 11	1 13	4 36	16 38	23 22	23 20	23 20	15 40	3 16	
T 7	22 33	13 35	4 38	25 13	1 55	23 40	0 26	21 57	1 19	18 27	0 49	9 34	2 19	21 6	0 7	22 11	1 13	4 36	16 38	23 22	23 20	23 20	15 39	3 16	
W 8	22 40	8 43	5 6	25 20	1 58	23 46	0 28	21 48	1 19	18 30	0 49	9 36	2 19	21 7	0 7	22 11	1 13	4 36	16 39	23 22	23 21	23 20	15 38	3 16	
T 9	22 46	3 33	5 16	25 26	2 2	23 52	0 31	21 38	1 18	18 33	0 49	9 38	2 19	21 8	0 7	22 11	1 13	4 35	16 39	23 22	23 21	23 20	15 38	3 16	
F 10	22 52	1s40	5 9	25 31	2 5	23 56	0 33	21 28	1 18	18 36	0 49	9 40	2 20	21 8	0 7	22 11	1 13	4 35	16 40	23 22	23 21	23 19	15 37	3 16	
S 11	22 57	6 42	4 47	25 34	2 7	24 0	0 35	21 18	1 18	18 39	0 49	9 42	2 20	21 9	0 7	22 11	1 13	4 35	16 40	23 22	23 21	23 19	15 36	3 16	
S 12	23 2	11 22	4 11	25 35	2 10	24 4	0 37	21 7	1 17	18 42	0 49	9 43	2 20	21 10	0 7	22 11	1 13	4 35	16 40	23 22	23 21	23 19	15 35	3 16	
M13	23 7	15 31	3 24	25 36	2 12	24 6	0 40	20 56	1 17	18 45	0 49	9 45	2 20	21 10	0 7	22 11	1 13	4 35	16 41	23 22	23 21	23 19	15 35	3 16	
T 14	23 11	18 56	2 28	25 34	2 13	24 8	0 42	20 45	1 17	18 48	0 49	9 47	2 20	21 11	0 7	22 11	1 13	4 35	16 41	23 22	23 21	23 19	15 34	3 16	
W15	23 14	21 30	1 26	25 32	2 15	24 9	0 44	20 34	1 16	18 51	0 49	9 49	2 20	21 11	0 7	22 11	1 13	4 34	16 42	23 22	23 21	23 19	15 33	3 16	
T 16	23 17	23 5	0 21	25 27	2 15	24 9	0 46	20 22	1 16	18 54	0 49	9 50	2 21	21 12	0 7	22 11	1 13	4 34	16 42	23 22	23 21	23 19	15 33	3 16	
F 17	23 20	23 37	0s44	25 21	2 16	24 9	0 48	20 11	1 16	18 57	0 49	9 52	2 21	21 13	0 7	22 11	1 13	4 34	16 43	23 22	23 22	23 19	15 32	3 16	
S 18	23 22	23 5	1 48	25 14	2 16	24 7	0 50	19 59	1 15	18 59	0 49	9 54	2 21	21 13	0 7	22 11	1 13	4 34	16 43	23 22	23 22	23 18	15 32	3 16	
S 19	23 24	21 31	2 47	25 5	2 15	24 5	0 52	19 47	1 15	19 2	0 49	9 55	2 21	21 14	0 7	22 12	1 13	4 34	16 44	23 22	23 22	23 18	15 31	3 16	
M20	23 25	19 1	3 39	24 55	2 14	24 3	0 54	19 34	1 15	19 5	0 49	9 57	2 21	21 15	0 7	22 12	1 13	4 34	16 44	23 22	23 22	23 18	15 30	3 16	
T 21	23 26	15 43	4 22	24 43	2 12	23 59	0 56	19 22	1 14	19 8	0 49	9 58	2 21	21 15	0 7	22 12	1 13	4 34	16 44	23 22	23 22	23 18	15 30	3 16	
W22	23 26	11 44	4 54	24 30	2 9	23 55	0 58	19 9	1 14	19 10	0 49	10 0	2 22	21 16	0 7	22 12	1 13	4 34	16 45	23 22	23 22	23 18	15 29	3 16	
T 23	23 26	7 11	5 13	24 16	2 6	23 50	1 0	18 56	1 13	19 13	0 49	10 1	2 22	21 16	0 7	22 12	1 13	4 34	16 45	23 22	23 22	23 18	15 29	3 16	
F 24	23 26	2 15	5 18	24 0	2 2	23 44	1 2	18 43	1 13	19 16	0 49	10 3	2 22	21 17	0 7	22 12	1 13	4 34	16 46	23 22	23 22	23 18	15 28	3 16	
S 25	23 25	2n56	5 7	23 42	1 58	23 38	1 4	18 30	1 13	19 18	0 49	10 4	2 22	21 18	0 7	22 12	1 13	4 34	16 46	23 22	23 22	23 17	15 28	3 16	
S 26	23 23	8 10	4 39	23 24	1 52	23 30	1 6	18 16	1 12	19 21	0 49	10 6	2 22	21 18	0 7	22 12	1 13	4 34	16 47	23 22	23 23	23 17	15 27	3 16	
M27	23 21	13 10	3 54	23 5	1 46	23 23	1 8	18 2	1 12	19 23	0 49	10 7	2 23	21 19	0 7	22 12	1 13	4 34	16 47	23 22	23 23	23 17	15 27	3 16	
T 28	23 19	17 36	2 53	22 44	1 39	23 14	1 9	17 48	1 11	19 26	0 49	10 9	2 23	21 19	0 7	22 12	1 13	4 34	16 48	23 22	23 23	23 17	15 26	3 16	
W29	23 16	21 4	1 40	22 22	1 31	23 5	1 11	17 34	1 11	19 28	0 49	10 10	2 23	21 20	0 7	22 12	1 13	4 34	16 48	23 22	23 23	23 17	15 26	3 16	
T 30	23 12	23 9	0 17	22 0	1 22	22 55	1 12	17 20	1 10	19 31	0 49	10 11	2 23	21 20	0 7	22 12	1 13	4 34	16 49	23 22	23 23	23 16	15 25	3 16	
F 31	23s 8	23n33	1n 7	21s38	1s12	22s44	1s14	17s 5	1s10	19s33	0n49	10s12	2n24	21s21	0n 7	22s12	1n13	4n34	16n49	23n22	23n23	23s16	15n25	3s16	