



Astrodienst Ephemeris Tables for the year 2011

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 2011

geocentric

JANUARY 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 41 13	10♌12'11	29♍14	19♎50	23♏34	18♐22	26♑33	16♒40	26♓58	26♓44	5♈20	2♉46	2♊18	20♋53	27♌37	S 1
S 2	6 45 9	11°13'21	12♈39	20° 9	24°32	19° 9	26°41	16°42	26°59	26°46	5°22	2°46	2°15	20°59	27°40	S 2
M 3	6 49 6	12°14'32	25°51	20°35	25°30	19°55	26°49	16°45	27° 0	26°48	5°24	2°47	2°12	21° 6	27°43	M 3
T 4	6 53 3	13°15'43	8♌39	21° 8	26°29	20°42	26°58	16°47	27° 2	26°49	5°26	2°R47	2° 9	21°13	27°47	T 4
W 5	6 56 59	14°16'54	21°34	21°46	27°28	21°28	27° 6	16°49	27° 3	26°51	5°28	2°46	2° 6	21°20	27°50	W 5
T 6	7 0 56	15°18'04	4♌5	22°30	28°28	22°15	27°15	16°52	27° 5	26°53	5°31	2°45	2° 3	21°26	27°53	T 6
F 7	7 4 52	16°19'15	16°24	23°19	29°28	23° 2	27°24	16°54	27° 6	26°55	5°33	2°43	1°59	21°33	27°56	F 7
S 8	7 8 49	17°20'25	28°31	24°12	0♌29	23°48	27°33	16°56	27° 8	26°57	5°35	2°41	1°56	21°40	28° 0	S 8
S 9	7 12 45	18°21'35	10♈30	25° 9	1°30	24°35	27°42	16°58	27°10	26°58	5°37	2°38	1°53	21°46	28° 3	S 9
M10	7 16 42	19°22'44	22°24	26° 9	2°32	25°22	27°51	16°59	27°11	27° 0	5°39	2°36	1°50	21°53	28° 7	M10
T 11	7 20 38	20°23'53	4♈15	27°12	3°33	26° 8	28° 1	17° 1	27°13	27° 2	5°41	2°35	1°47	22° 0	28°10	T 11
W12	7 24 35	21°25'01	16° 9	28°18	4°36	26°55	28°10	17° 3	27°15	27° 4	5°43	2°D34	1°44	22° 7	28°13	W12
T 13	7 28 31	22°26'09	28°10	29°27	5°38	27°42	28°20	17° 4	27°17	27° 6	5°45	2°34	1°40	22°13	28°17	T 13
F 14	7 32 28	23°27'16	10♌24	0♌37	6°41	28°29	28°30	17° 6	27°19	27° 8	5°48	2°35	1°37	22°20	28°20	F 14
S 15	7 36 25	24°28'23	22°53	1°50	7°44	29°16	28°40	17° 7	27°20	27°10	5°50	2°36	1°34	22°27	28°24	S 15
S 16	7 40 21	25°29'29	5♈44	3° 4	8°48	0♌3	28°50	17° 8	27°22	27°12	5°52	2°38	1°31	22°33	28°28	S 16
M17	7 44 18	26°30'34	18°57	4°20	9°52	0°49	29° 0	17° 9	27°24	27°14	5°54	2°39	1°28	22°40	28°31	M17
T 18	7 48 14	27°31'39	2♌36	5°37	10°56	1°36	29°10	17°10	27°27	27°16	5°56	2°R40	1°24	22°47	28°35	T 18
W19	7 52 11	28°32'43	16°39	6°56	12° 0	2°23	29°20	17°11	27°29	27°18	5°58	2°39	1°21	22°54	28°39	W19
T 20	7 56 7	29°33'47	1♌3	8°16	13° 5	3°10	29°31	17°11	27°31	27°20	6° 0	2°37	1°18	23° 0	28°42	T 20
F 21	8 0 4	0♌34'49	15°43	9°37	14°10	3°57	29°42	17°12	27°33	27°22	6° 2	2°34	1°15	23° 7	28°46	F 21
S 22	8 4 1	1°35'52	0♈31	10°59	15°15	4°44	29°52	17°13	27°35	27°24	6° 4	2°29	1°12	23°14	28°50	S 22
S 23	8 7 57	2°36'53	15°19	12°22	16°20	5°31	0♈3	17°13	27°37	27°26	6° 6	2°25	1° 9	23°21	28°54	S 23
M24	8 11 54	3°37'54	0♌1	13°47	17°26	6°19	0°14	17°13	27°40	27°29	6° 8	2°21	1° 5	23°27	28°57	M24
T 25	8 15 50	4°38'55	14°29	15°12	18°32	7° 6	0°25	17°14	27°42	27°31	6°10	2°18	1° 2	23°34	29° 1	T 25
W26	8 19 47	5°39'55	28°41	16°38	19°38	7°53	0°36	17°R14	27°44	27°33	6°12	2°16	0°59	23°41	29° 5	W26
T 27	8 23 43	6°40'55	12♌34	18° 4	20°45	8°40	0°47	17°14	27°47	27°35	6°14	2°D16	0°56	23°47	29° 9	T 27
F 28	8 27 40	7°41'54	26° 9	19°32	21°51	9°27	0°59	17°13	27°49	27°37	6°16	2°17	0°53	23°54	29°13	F 28
S 29	8 31 36	8°42'53	9♈26	21° 0	22°58	10°14	1°10	17°13	27°52	27°39	6°17	2°19	0°50	24° 1	29°17	S 29
S 30	8 35 33	9°43'51	22°28	22°30	24° 5	11° 2	1°22	17°13	27°54	27°41	6°19	2°20	0°46	24° 8	29°21	S 30
M31	8 39 30	10°44'48	5♌17	24♌0	25♌12	11°49	1°Y33	17♌12	27♈57	27°44	6♌21	2°R21	0♌43	24♈14	29°25	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	23s 3	22s50	2s55	20s13	2n50	15s16	3n30	23s10	0s59	2s32	1s16	4s19	2n25	1s53	0s44	S 1
S 2	22 58	24 7	1 49	20 21	2 44	15 30	3 30	23 3	1 0	2 29	1 16	4 20	2 25	1 53	0 44	S 2
M 3	22 52	24 1	0 38	20 30	2 37	15 44	3 31	22 57	1 0	2 25	1 16	4 21	2 25	1 52	0 44	M 3
T 4	22 47	22 35	0n33	20 39	2 29	15 57	3 31	22 50	1 0	2 22	1 15	4 21	2 25	1 51	0 44	T 4
W 5	22 40	20 2	1 42	20 50	2 21	16 10	3 31	22 43	1 0	2 18	1 15	4 22	2 26	1 51	0 44	W 5
T 6	22 34	16 34	2 45	21 1	2 13	16 24	3 31	22 36	1 1	2 14	1 15	4 23	2 26	1 50	0 44	T 6
F 7	22 26	12 27	3 38	21 12	2 4	16 37	3 30	22 28	1 1	2 11	1 15	4 23	2 26	1 49	0 44	F 7
S 8	22 19	7 54	4 21	21 23	1 55	16 50	3 30	22 21	1 1	2 7	1 14	4 24	2 26	1 49	0 44	S 8
S 9	22 11	3 7	4 52	21 35	1 46	17 3	3 29	22 13	1 1	2 3	1 14	4 24	2 27	1 48	0 44	S 9
M10	22 2	1n44	5 10	21 46	1 37	17 16	3 28	22 4	1 2	1 59	1 14	4 25	2 27	1 47	0 44	M10
T 11	21 53	6 31	5 15	21 57	1 28	17 28	3 27	21 56	1 2	1 55	1 14	4 25	2 27	1 47	0 44	T 11
W12	21 44	11 4	5 7	22 7	1 19	17 41	3 26	21 47	1 2	1 51	1 14	4 25	2 28	1 46	0 44	W12
T 13	21 34	15 15	4 45	22 17	1 10	17 53	3 25	21 38	1 2	1 47	1 13	4 26	2 28	1 45	0 44	T 13
F 14	21 24	18 53	4 9	22 26	1 0	18 5	3 23	21 29	1 2	1 43	1 13	4 26	2 28	1 44	0 44	F 14
S 15	21 13	21 45	3 22	22 34	0 51	18 17	3 22	21 19	1 3	1 39	1 13	4 26	2 28	1 43	0 44	S 15
S 16	21 2	23 36	2 23	22 42	0 43	18 28	3 20	21 10	1 3	1 35	1 13	4 26	2 29	1 43	0 44	S 16
M17	20 51	24 13	1 15	22 48	0 34	18 39	3 19	21 0	1 3	1 31	1 13	4 26	2 29	1 42	0 44	M17
T 18	20 39	23 25	0 0	22 54	0 25	18 50	3 17	20 49	1 3	1 26	1 12	4 27	2 29	1 41	0 44	T 18
W19	20 27	21 8	1s16	22 59	0 17	19 1	3 15	20 39	1 3	1 22	1 12	4 27	2 30	1 40	0 44	W19
T 20	20 14	17 29	2 30	23 3	0 8	19 11	3 12	20 28	1 3	1 18	1 12	4 27	2 30	1 39	0 43	T 20
F 21	20 2	12 43	3 34	23 5	0 0	19 21	3 10	20 18	1 3	1 13	1 12	4 27	2 30	1 38	0 43	F 21
S 22	19 48	7 9	4 25	23 7	0s 8	19 30	3 8	20 6	1 4	1 9	1 12	4 27	2 30	1 37	0 43	S 22
S 23	19 34	1 12	4 59	23 7	0 16	19 40	3 6	19 55	1 4	1 4	1 12	4 26	2 31	1 37	0 43	S 23
M24	19 20	4s47	5 12	23 7	0 23	19 48	3 3	19 43	1 4	1 0	1 11	4 26	2 31	1 36	0 43	M24
T 25	19 6	10 24	5 5	23 5	0 31	19 57	3 0	19 32	1 4	0 55	1 11	4 26	2 31	1 35	0 43	T 25
W26	18 51	15 22	4 40	23 2	0 38	20 5	2 58	19 20	1 4	0 51	1 11	4 26	2 32	1 34	0 43	W26
T 27	18 36	19 23	3 59	22 58	0 45	20 12	2 55	19 8	1 4	0 46	1 11	4 26	2 32	1 33	0 43	T 27
F 28	18 21	22 17	3 5	22 52	0 52	20 20	2 52	18 55	1 4	0 41	1 11	4 25	2 32	1 32	0 43	F 28
S 29	18 5	23 52	2 2	22 45	0 58	20 26	2 49	18 42	1 4	0 37	1 11	4 25	2 32	1 31	0 43	S 29
S 30	17 49	24 7	0 54	22 37	1 4	20 33	2 46	18 30	1 4	0 32	1 10	4 25	2 33	1 30	0 43	S 30
M31	17s32	23s 4	0n16	22s28	1s10	20s38	2n43	18s17	1s 4	0s27	1s10	4s24	2n33	1s29	0s43	M31

Julian Day Number = 2455562.5, Delta T = 66.32 sec
 Ecciptic obliquity = 23°26'16, Nutation = 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°53'38, Lahiri = 24°00'39

ASTRODIENST EPHEMERIS for the year 2011

geocentric

FEBRUARY 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 26	11°45'44	17°53	25°30	26°20	12°36	1°45	17°R12	27°59	27°46	6°23	2°R20	0°40	24°21	29°29	T 1
W 2	8 47 23	12°46'40	0°20	27° 2	27°27	13°23	1°57	17°11	28° 2	27°48	6°25	2°16	0°37	24°28	29°33	W 2
T 3	8 51 19	13°47'34	12°37	28°34	28°35	14°11	2° 9	17°10	28° 5	27°50	6°27	2°11	0°34	24°34	29°37	T 3
F 4	8 55 16	14°48'28	24°46	0° 7	29°43	14°58	2°21	17° 9	28° 7	27°53	6°29	2° 3	0°30	24°41	29°41	F 4
S 5	8 59 12	15°49'20	6°48	1°40	0°51	15°45	2°33	17° 9	28°10	27°55	6°30	1°55	0°27	24°48	29°45	S 5
S 6	9 3 9	16°50'11	18°45	3°14	1°59	16°33	2°45	17° 7	28°13	27°57	6°32	1°46	0°24	24°55	29°49	S 6
M 7	9 7 5	17°51'00	0°37	4°50	3° 8	17°20	2°58	17° 6	28°16	27°59	6°34	1°37	0°21	25° 1	29°53	M 7
T 8	9 11 2	18°51'48	12°28	6°25	4°16	18° 7	3°10	17° 5	28°18	28° 2	6°35	1°30	0°18	25° 8	29°57	T 8
W 9	9 14 59	19°52'35	24°20	8° 2	5°25	18°55	3°22	17° 3	28°21	28° 4	6°37	1°24	0°15	25°15	0° 1	W 9
T 10	9 18 55	20°53'21	6°19	9°39	6°34	19°42	3°35	17° 2	28°24	28° 6	6°39	1°21	0°11	25°22	0° 5	T 10
F 11	9 22 52	21°54'04	18°28	11°18	7°43	20°29	3°47	17° 0	28°27	28° 8	6°41	1°D19	0° 8	25°28	0° 9	F 11
S 12	9 26 48	22°54'47	0°52	12°57	8°52	21°17	4° 0	16°59	28°30	28°11	6°42	1°19	0° 5	25°35	0°13	S 12
S 13	9 30 45	23°55'27	13°36	14°36	10° 1	22° 4	4°13	16°57	28°33	28°13	6°44	1°20	0° 2	25°42	0°17	S 13
M14	9 34 41	24°56'06	26°45	16°17	11°10	22°51	4°26	16°55	28°36	28°15	6°45	1°R21	29°56	25°48	0°21	M14
T 15	9 38 38	25°56'44	10°22	17°59	12°19	23°39	4°39	16°53	28°39	28°17	6°47	1°21	29°56	25°55	0°25	T 15
W16	9 42 34	26°57'19	24°27	19°41	13°29	24°26	4°51	16°51	28°42	28°20	6°48	1°19	29°52	26° 2	0°29	W16
T 17	9 46 31	27°57'53	9° 0	21°24	14°38	25°13	5° 4	16°49	28°45	28°22	6°50	1°14	29°49	26° 9	0°33	T 17
F 18	9 50 28	28°58'25	23°55	23° 8	15°48	26° 1	5°18	16°46	28°48	28°24	6°52	1° 7	29°46	26°15	0°37	F 18
S 19	9 54 24	29°58'56	9° 5	24°53	16°58	26°48	5°31	16°44	28°51	28°27	6°53	0°58	29°43	26°22	0°42	S 19
S 20	9 58 21	0°59'25	24°18	26°39	18° 8	27°36	5°44	16°42	28°54	28°29	6°54	0°49	29°40	26°29	0°46	S 20
M21	10 2 17	1°59'53	9°25	28°26	19°18	28°23	5°57	16°39	28°57	28°31	6°56	0°40	29°36	26°35	0°50	M21
T 22	10 6 14	3° 0'20	24°15	0°14	20°28	29°10	6°10	16°36	29° 0	28°33	6°57	0°33	29°33	26°42	0°54	T 22
W23	10 10 10	4° 0'45	8°42	2° 3	21°38	29°58	6°24	16°34	29° 4	28°36	6°59	0°28	29°30	26°49	0°58	W23
T 24	10 14 7	5° 1'08	22°43	3°52	22°49	0°45	6°37	16°31	29° 7	28°38	7° 0	0°25	29°27	26°56	1° 2	T 24
F 25	10 18 3	6° 1'31	6°19	5°43	23°59	1°33	6°51	16°28	29°10	28°40	7° 1	0°D24	29°24	27° 2	1° 6	F 25
S 26	10 22 0	7° 1'52	19°31	7°34	25° 9	2°20	7° 4	16°25	29°13	28°42	7° 3	0°25	29°21	27° 9	1°10	S 26
S 27	10 25 57	8° 2'12	2°22	9°27	26°20	3° 7	7°18	16°22	29°17	28°45	7° 4	0°R25	29°17	27°16	1°14	S 27
M28	10 29 53	9° 2'30	14°57	11°20	27°31	3°55	7°32	16°19	29°20	28°47	7° 5	0°24	29°14	27°23	1°18	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
T 1	17s16	20s52	1n23	22s17	1s16	20s44	2n40	18s 3	1s 5	0s22	1s10	4s24	2n33	1s28	0s43	12s42	0s29	18s48	4n29	23s25	23s26	2n27	6s23	5n38			
W 2	16 58	17 42	2 26	22 5	1 22	20 48	2 36	17 50	1 5	0 18	1 10	4 23	2 33	1 26	0 43	12 41	0 29	18 48	4 29	23 25	23 26	2 30	6 21	5 38			
T 3	16 41	13 48	3 21	21 52	1 27	20 53	2 33	17 36	1 5	0 13	1 10	4 23	2 34	1 25	0 43	12 41	0 29	18 48	4 29	23 25	23 26	2 33	6 20	5 38			
F 4	16 23	9 24	4 5	21 37	1 32	20 56	2 30	17 23	1 5	0 8	1 10	4 22	2 34	1 24	0 43	12 40	0 29	18 48	4 29	23 25	23 26	2 35	6 19	5 37			
S 5	16 6	4 42	4 39	21 21	1 36	21 0	2 26	17 9	1 5	0 3	1 9	4 21	2 34	1 23	0 43	12 39	0 29	18 48	4 29	23 25	23 26	2 38	6 18	5 37			
S 6	15 47	0n 9	5 0	21 4	1 41	21 3	2 23	16 54	1 5	0n 2	1 9	4 21	2 35	1 22	0 43	12 38	0 29	18 48	4 29	23 26	23 26	2 41	6 16	5 37			
M 7	15 29	4 57	5 7	20 45	1 45	21 5	2 19	16 40	1 5	0 7	1 9	4 20	2 35	1 21	0 43	12 38	0 29	18 48	4 29	23 26	23 26	2 44	6 15	5 37			
T 8	15 10	9 33	5 2	20 25	1 48	21 6	2 16	16 26	1 5	0 12	1 9	4 19	2 35	1 20	0 43	12 37	0 29	18 48	4 29	23 26	23 26	2 46	6 14	5 37			
W 9	14 51	13 49	4 43	20 3	1 52	21 8	2 12	16 11	1 5	0 17	1 9	4 18	2 35	1 19	0 43	12 36	0 29	18 48	4 29	23 26	23 26	2 49	6 12	5 37			
T 10	14 32	17 36	4 12	19 41	1 55	21 8	2 8	15 56	1 5	0 22	1 9	4 18	2 36	1 17	0 43	12 35	0 29	18 48	4 29	23 26	23 26	2 52	6 11	5 37			
F 11	14 12	20 41	3 30	19 16	1 58	21 8	2 5	15 41	1 5	0 27	1 9	4 17	2 36	1 16	0 43	12 34	0 29	18 48	4 29	23 26	23 26	2 54	6 10	5 37			
S 12	13 53	22 53	2 36	18 51	2 0	21 8	2 1	15 26	1 5	0 33	1 8	4 16	2 36	1 15	0 43	12 34	0 29	18 48	4 29	23 26	23 26	2 57	6 8	5 37			
S 13	13 33	23 59	1 34	18 24	2 2	21 7	1 57	15 11	1 5	0 38	1 8	4 15	2 36	1 14	0 43	12 33	0 29	18 48	4 29	23 26	23 26	3 0	6 7	5 36			
M14	13 13	23 49	0 25	17 55	2 4	21 5	1 53	14 55	1 5	0 43	1 8	4 14	2 37	1 13	0 43	12 32	0 29	18 47	4 29	23 26	23 26	3 3	6 6	5 36			
T 15	12 52	22 14	0s48	17 25	2 5	21 3	1 50	14 39	1 5	0 48	1 8	4 13	2 37	1 11	0 43	12 31	0 29	18 47	4 29	23 26	23 26	3 5	6 4	5 36			
W16	12 32	19 15	2 0	16 54	2 6	21 0	1 46	14 24	1 5	0 53	1 8	4 12	2 37	1 10	0 43	12 31	0 29	18 47	4 29	23 26	23 26	3 8	6 3	5 36			
T 17	12 11	15 0	3 7	16 21	2 6	20 57	1 42	14 8	1 5	0 59	1 8	4 11	2 37	1 9	0 43	12 30	0 29	18 47	4 29	23 26	23 26	3 11	6 2	5 36			
F 18	11 50	9 43	4 3	15 47	2 6	20 53	1 38	13 52	1 5	1 4	1 8	4 10	2 38	1 8	0 43	12 29	0 29	18 47	4 29	23 26	23 26	3 13	6 0	5 36			
S 19	11 29	3 48	4 42	15 12	2 6	20 48	1 34	13 35	1 5	1 9	1 8	4 9	2 38	1 7	0 43	12 28	0 29	18 47	4 29	23 26	23 26	3 16	5 59	5 36			
S 20	11 7	2s22	5 2	14 35	2 5	20 43	1 30	13 19	1 5	1 15	1 8	4 8	2 38	1 5	0 43	12 27	0 29	18 47	4 29	23 26	23 26	3 19	5 58	5 36			
M21	10 46	8 20	5 0	13 57	2 4	20 38	1 26	13 3	1 4	1 20	1 7	4 6	2 38	1 4	0 43	12 27	0 29	18 47	4 29	23 26	23 26	3 22	5 56	5 36			
T 22	10 24	13 43	4 39	13 17	2 2	20 32	1 22	12 46	1 4	1 25	1 7	4 5	2 39	1 3	0 43	12 26	0 29	18 47	4 29	23 26	23 26	3 24	5 55	5 36			
W23	10 2	18 10	3 59	12 36	2 0	20 25	1 18	12 29	1 4	1 31	1 7	4 4	2 39	1 2	0 43	12 25	0 29	18 47	4 29	23 26	23 26	3 27	5 53	5 36			
T 24	9 40	21 27	3 7	11 54	1 57	20 17	1 14	12 12	1 4	1 36	1 7	4 3	2 39	1 0	0 43	12 24	0 29	18 47	4 29	23 26	23 26	3 30	5 52	5 36			
F 25	9 18	23 24	2 5	11 10	1 54	20 10	1 10	11 55	1 4	1 42	1 7	4 1	2 39	0 59	0 43	12 24	0 29	18 46	4 29	23 26	23 26	3 32	5 51	5 36			
S 26	8 56	23 59	0 58	10 26	1 50	20 1	1 6	11 38	1 4	1 47	1 7	4 0	2 39	0 58	0 43	12 23	0 29	18 46	4 29	23 26	23 26	3 35	5 49	5 36			
S 27	8 33	23 15	0n10	9 39	1 45	19 52	1 2	11 21	1 4	1 52	1 7	3 59	2 40	0 56	0 43	12 22	0 29	18 46	4 29	23 26	23 26	3 38	5 48	5 36			
M28	8s11	21s20	1n17	8s52	1s40	19s42	0n58	11s 4	1s 4	1n58	1s 7	3s57	2n40	0s55	0s43	12s21	0s29	18s46	4n29	23s26	23s26	3n41	5s46	5n36			

Julian Day Number = 2455593.5, Delta T = 66.35 sec

Ecliptic obliquity = 23°26'16, Nutation = 0°00'19, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°53'42, Lahiri = 24°00'43

ASTRODIENST EPHEMERIS for the year 2011

geocentric

MARCH 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 33 50	10° 2'47	27° 19	13° 13	28° 41	4° 42	7° 45	16° 15	29° 23	28° 49	7° 6	0° 21	29° 11	27° 29	1° 22	T 1
W 2	10 37 46	11° 3'02	9° 32	15° 8	29° 52	5° 30	7° 59	16° 12	29° 26	28° 51	7° 8	0° 15	29° 8	27° 36	1° 27	W 2
T 3	10 41 43	12° 3'16	21° 37	17° 3	1° 3	6° 17	8° 13	16° 9	29° 30	28° 54	7° 9	0° 6	29° 5	27° 43	1° 31	T 3
F 4	10 45 39	13° 3'27	3° 36	18° 58	2° 14	7° 4	8° 27	16° 5	29° 33	28° 56	7° 10	29° 54	29° 1	27° 49	1° 35	F 4
S 5	10 49 36	14° 3'37	15° 32	20° 54	3° 25	7° 52	8° 40	16° 2	29° 36	28° 58	7° 11	29° 40	28° 58	27° 56	1° 39	S 5
S 6	10 53 32	15° 3'46	27° 25	22° 50	4° 36	8° 39	8° 54	15° 58	29° 40	29° 0	7° 12	29° 26	28° 55	28° 3	1° 43	S 6
M 7	10 57 29	16° 3'52	9° 17	24° 45	5° 47	9° 26	9° 8	15° 54	29° 43	29° 3	7° 13	29° 12	28° 52	28° 10	1° 47	M 7
T 8	11 1 25	17° 3'56	21° 9	26° 41	6° 58	10° 14	9° 22	15° 51	29° 46	29° 5	7° 14	29° 0	28° 49	28° 16	1° 51	T 8
W 9	11 5 22	18° 3'58	3° 3	28° 36	8° 9	11° 1	9° 36	15° 47	29° 50	29° 7	7° 15	28° 50	28° 46	28° 23	1° 55	W 9
T 10	11 9 19	19° 3'59	15° 3	0° 29	9° 21	11° 48	9° 50	15° 43	29° 53	29° 9	7° 16	28° 42	28° 42	28° 30	1° 59	T 10
F 11	11 13 15	20° 3'57	27° 11	2° 22	10° 32	12° 35	10° 4	15° 39	29° 56	29° 11	7° 17	28° 38	28° 39	28° 37	2° 3	F 11
S 12	11 17 12	21° 3'53	9° 32	4° 13	11° 43	13° 23	10° 19	15° 35	29° 59	29° 13	7° 18	28° 36	28° 36	28° 43	2° 6	S 12
S 13	11 21 8	22° 3'47	22° 11	6° 1	12° 55	14° 10	10° 33	15° 31	0° 3	29° 16	7° 19	28° 36	28° 33	28° 50	2° 10	S 13
M14	11 25 5	23° 3'38	5° 13	7° 48	14° 6	14° 57	10° 47	15° 27	0° 7	29° 18	7° 20	28° 36	28° 30	28° 57	2° 14	M14
T 15	11 29 1	24° 3'28	18° 40	9° 31	15° 18	15° 44	11° 1	15° 23	0° 10	29° 20	7° 20	28° 35	28° 27	29° 3	2° 18	T 15
W16	11 32 58	25° 3'15	2° 38	11° 10	16° 29	16° 32	11° 15	15° 19	0° 14	29° 22	7° 21	28° 32	28° 23	29° 10	2° 22	W16
T 17	11 36 54	26° 3'00	17° 4	12° 46	17° 41	17° 19	11° 30	15° 14	0° 17	29° 24	7° 22	28° 26	28° 20	29° 17	2° 26	T 17
F 18	11 40 51	27° 2'42	1° 57	14° 17	18° 53	18° 6	11° 44	15° 10	0° 20	29° 26	7° 23	28° 18	28° 17	29° 24	2° 30	F 18
S 19	11 44 48	28° 2'23	17° 10	15° 43	20° 4	18° 53	11° 58	15° 6	0° 24	29° 28	7° 23	28° 8	28° 14	29° 30	2° 33	S 19
S 20	11 48 44	29° 2'01	2° 32	17° 4	21° 16	19° 40	12° 13	15° 1	0° 27	29° 30	7° 24	27° 56	28° 11	29° 37	2° 37	S 20
M21	11 52 41	0° 1'38	17° 51	18° 19	22° 28	20° 27	12° 27	14° 57	0° 31	29° 32	7° 25	27° 45	28° 7	29° 44	2° 41	M21
T 22	11 56 37	1° 1'12	2° 57	19° 27	23° 40	21° 14	12° 41	14° 53	0° 34	29° 34	7° 25	27° 36	28° 4	29° 50	2° 45	T 22
W23	12 0 34	2° 0'45	17° 39	20° 29	24° 52	22° 1	12° 56	14° 48	0° 37	29° 36	7° 26	27° 29	28° 1	29° 57	2° 48	W23
T 24	12 4 30	3° 0'16	1° 54	21° 24	26° 3	22° 48	13° 10	14° 44	0° 41	29° 38	7° 26	27° 25	27° 58	0° 4	2° 52	T 24
F 25	12 8 27	3° 59'45	15° 39	22° 12	27° 15	23° 35	13° 25	14° 39	0° 44	29° 40	7° 27	27° 23	27° 55	0° 11	2° 56	F 25
S 26	12 12 23	4° 59'13	28° 56	22° 52	28° 27	24° 22	13° 39	14° 35	0° 48	29° 42	7° 27	27° 23	27° 52	0° 17	2° 59	S 26
S 27	12 16 20	5° 58'39	11° 49	23° 25	29° 39	25° 9	13° 53	14° 30	0° 51	29° 44	7° 28	27° 23	27° 48	0° 24	3° 3	S 27
M28	12 20 17	6° 58'03	24° 21	23° 51	0° 51	25° 56	14° 8	14° 25	0° 55	29° 46	7° 28	27° 22	27° 45	0° 31	3° 6	M28
T 29	12 24 13	7° 57'25	6° 37	24° 8	2° 3	26° 43	14° 22	14° 21	0° 58	29° 48	7° 28	27° 19	27° 42	0° 38	3° 10	T 29
W30	12 28 10	8° 56'45	18° 43	24° 19	3° 16	27° 30	14° 37	14° 16	1° 1	29° 50	7° 29	27° 13	27° 39	0° 44	3° 13	W30
T 31	12 32 6	9° 56'04	0° 41	24° 21	4° 28	28° 17	14° 51	14° 11	1° 5	29° 52	7° 29	27° 5	27° 36	0° 51	3° 17	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	7s48	18s27	2n18	8s 3	1s35	19s32	0n54	10s46	1s 4	2n 3	1s 7	3s56	2n40	0s54	0s43	12s20	0s29
W 2	7 25	14 47	3 12	7 13	1 29	19 21	0 50	10 29	1 3	2 9	1 7	3 54	2 40	0 52	0 42	12 20	0 29
T 3	7 2	10 34	3 56	6 23	1 22	19 10	0 46	10 11	1 3	2 14	1 6	3 53	2 40	0 51	0 42	12 19	0 29
F 4	6 39	6 0	4 30	5 31	1 15	18 58	0 42	9 54	1 3	2 20	1 6	3 51	2 41	0 50	0 42	12 18	0 29
S 5	6 16	1 14	4 51	4 38	1 7	18 46	0 39	9 36	1 3	2 25	1 6	3 50	2 41	0 48	0 42	12 17	0 29
S 6	5 53	3n33	5 0	3 45	0 59	18 33	0 35	9 18	1 3	2 31	1 6	3 48	2 41	0 47	0 42	12 17	0 29
M 7	5 30	8 12	4 56	2 51	0 50	18 20	0 31	9 0	1 3	2 37	1 6	3 47	2 41	0 46	0 42	12 16	0 29
T 8	5 6	12 33	4 38	1 56	0 40	18 6	0 27	8 42	1 3	2 42	1 6	3 45	2 41	0 44	0 42	12 15	0 29
W 9	4 43	16 25	4 9	1 1	0 30	17 51	0 23	8 24	1 2	2 48	1 6	3 43	2 42	0 43	0 42	12 14	0 29
T 10	4 20	19 40	3 28	0 6	0 19	17 36	0 19	8 6	1 2	2 53	1 6	3 42	2 42	0 42	0 42	12 14	0 29
F 11	3 56	22 5	2 38	0n49	0 8	17 21	0 16	7 47	1 2	2 59	1 6	3 40	2 42	0 40	0 42	12 13	0 29
S 12	3 33	23 31	1 39	1 44	0n 4	17 5	0 12	7 29	1 2	3 4	1 6	3 38	2 42	0 39	0 42	12 12	0 29
S 13	3 9	23 46	0 34	2 38	0 16	16 48	0 8	7 11	1 2	3 10	1 6	3 37	2 42	0 38	0 42	12 11	0 29
M14	2 45	22 45	0s35	3 31	0 28	16 31	0 5	6 52	1 1	3 16	1 6	3 35	2 42	0 36	0 42	12 11	0 29
T 15	2 22	20 25	1 44	4 24	0 41	16 14	0 1	6 34	1 1	3 21	1 6	3 33	2 42	0 35	0 42	12 10	0 29
W16	1 58	16 49	2 49	5 15	0 54	15 56	0s 2	6 15	1 1	3 27	1 5	3 32	2 43	0 33	0 42	12 9	0 30
T 17	1 34	12 8	3 46	6 4	1 7	15 38	0 6	5 56	1 1	3 33	1 5	3 30	2 43	0 32	0 42	12 9	0 30
F 18	1 11	6 35	4 29	6 51	1 19	15 19	0 9	5 38	1 0	3 38	1 5	3 28	2 43	0 31	0 42	12 8	0 30
S 19	0 47	0 33	4 55	7 36	1 32	15 0	0 13	5 19	1 0	3 44	1 5	3 26	2 43	0 29	0 42	12 7	0 30
S 20	0 23	5s35	4 59	8 19	1 45	14 40	0 16	5 0	1 0	3 49	1 5	3 25	2 43	0 28	0 42	12 6	0 30
M21	0n 1	11 21	4 42	8 59	1 57	14 20	0 20	4 42	1 0	3 55	1 5	3 23	2 43	0 27	0 42	12 6	0 30
T 22	0 24	16 20	4 5	9 36	2 9	13 59	0 23	4 23	0 59	4 1	1 5	3 21	2 43	0 25	0 42	12 5	0 30
W23	0 48	20 11	3 13	10 10	2 20	13 39	0 26	4 4	0 59	4 6	1 5	3 19	2 43	0 24	0 42	12 4	0 30
T 24	1 12	22 40	2 10	10 41	2 31	13 17	0 29	3 45	0 59	4 12	1 5	3 17	2 43	0 23	0 42	12 4	0 30
F 25	1 35	23 41	1 2	11 8	2 41	12 56	0 32	3 26	0 58	4 18	1 5	3 16	2 44	0 21	0 42	12 3	0 30
S 26	1 59	23 18	0n 8	11 31	2 50	12 34	0 35	3 7	0 58	4 23	1 5	3 14	2 44	0 20	0 42	12 2	0 30
S 27	2 22	21 40	1 16	11 51	2 58	12 11	0 38	2 49	0 58	4 29	1 5	3 12	2 44	0 18	0 42	12 2	0 30
M28	2 46	18 59	2 17	12 7	3 5	11 49	0 41	2 30	0 58	4 35	1 5	3 10	2 44	0 17	0 42	12 1	0 30
T 29	3 9	15 31	3 11	12 19	3 11	11 26	0 44	2 11	0 57	4 40	1 5	3 8	2 44	0 16	0 42	12 0	0 30
W30	3 33	11 28	3 56	12 27	3 15	11 2	0 47	1 52	0 57	4 46	1 5	3 6	2 44	0 14	0 42	12 0	0 30
T 31	3n56	7s 2	4n30	12n31	3n18	10s39	0s50	1s33	0s57	4n51	1s 5	3s 5	2n44	0s13	0s42	11s59	0s30

Julian Day Number = 2455621.5, Delta T = 66.37 sec
 Ecliptic obliquity = 23°26'17", Nutation = 0°00'18", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°53'46", Lahiri = 24°00'47"

ASTRODIENST EPHEMERIS for the year 2011

geocentric

APRIL 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 36 3	10°55'20	12°34'	24°R17	5°40'	29°41'	15°59'	14°R 7	1°12'	29°54'	7°29'	26°R53	27°33'	0°58'	3°20'	F 1
S 2	12 39 59	11°54'35	24°26'	24°Y 5	6°52'	29°51'	15°20'	14°22'	1°12'	29°55'	7°30'	26°R40	27°29'	1° 4'	3°24'	S 2
S 3	12 43 56	12°53'48	6°Y18	23°47'	8° 4'	0°Y37	15°35'	13°57'	1°15'	29°57'	7°30'	26°26'	27°26'	1°11'	3°27'	S 3
M 4	12 47 52	13°52'58	18°11'	23°23'	9°17'	1°24'	15°49'	13°53'	1°18'	29°59'	7°30'	26°13'	27°23'	1°18'	3°30'	M 4
T 5	12 51 49	14°52'07	0°Y 7	22°53'	10°29'	2°11'	16° 4'	13°48'	1°22'	0° 1'	7°30'	26° 1'	27°20'	1°25'	3°34'	T 5
W 6	12 55 46	15°51'14	12° 7'	22°19'	11°41'	2°57'	16°18'	13°43'	1°25'	0° 2'	7°30'	25°51'	27°17'	1°31'	3°37'	W 6
T 7	12 59 42	16°50'18	24°14'	21°40'	12°53'	3°44'	16°33'	13°39'	1°28'	0° 4'	7°30'	25°44'	27°13'	1°38'	3°40'	T 7
F 8	13 3 39	17°49'20	6°Y28	20°58'	14° 6'	4°31'	16°48'	13°34'	1°32'	0° 6'	7°30'	25°40'	27°10'	1°45'	3°44'	F 8
S 9	13 7 35	18°48'21	18°54'	20°14'	15°18'	5°17'	17° 2'	13°30'	1°35'	0° 8'	7°R30	25°38'	27° 7'	1°51'	3°47'	S 9
S 10	13 11 32	19°47'18	1°Y35	19°28'	16°30'	6° 4'	17°17'	13°25'	1°38'	0° 9'	7°30'	25°D38	27° 4'	1°58'	3°50'	S 10
M 11	13 15 28	20°46'14	14°35'	18°42'	17°43'	6°50'	17°31'	13°20'	1°42'	0°11'	7°30'	25°R38	27° 1'	2° 5'	3°53'	M 11
T 12	13 19 25	21°45'07	27°57'	17°56'	18°55'	7°37'	17°46'	13°16'	1°45'	0°12'	7°30'	25°38'	26°58'	2°12'	3°56'	T 12
W 13	13 23 21	22°43'58	11°Y44	17°11'	20° 8'	8°23'	18° 0'	13°11'	1°48'	0°14'	7°30'	25°37'	26°54'	2°18'	3°59'	W 13
T 14	13 27 18	23°42'47	25°58'	16°27'	21°20'	9°10'	18°14'	13° 7'	1°51'	0°16'	7°30'	25°33'	26°51'	2°25'	4° 2'	T 14
F 15	13 31 15	24°41'33	10°Y37	15°47'	22°33'	9°56'	18°29'	13° 2'	1°55'	0°17'	7°30'	25°27'	26°48'	2°32'	4° 5'	F 15
S 16	13 35 11	25°40'17	25°36'	15°10'	23°45'	10°42'	18°43'	12°58'	1°58'	0°19'	7°30'	25°19'	26°45'	2°39'	4° 8'	S 16
S 17	13 39 8	26°38'59	10°Y47	14°36'	24°57'	11°29'	18°58'	12°53'	2° 1'	0°20'	7°30'	25°10'	26°42'	2°45'	4°11'	S 17
M 18	13 43 4	27°37'39	26° 1'	14° 7'	26°10'	12°15'	19°12'	12°49'	2° 4'	0°21'	7°29'	25° 2'	26°38'	2°52'	4°13'	M 18
T 19	13 47 1	28°36'17	11°Y 5	13°43'	27°22'	13° 1'	19°27'	12°44'	2° 7'	0°23'	7°29'	24°54'	26°35'	2°59'	4°16'	T 19
W 20	13 50 57	29°34'53	25°52'	13°23'	28°35'	13°47'	19°41'	12°40'	2°11'	0°24'	7°29'	24°49'	26°32'	3° 5'	4°19'	W 20
T 21	13 54 54	0°Y33'27	10°Y14	13° 8'	29°48'	14°33'	19°55'	12°35'	2°14'	0°26'	7°28'	24°46'	26°29'	3°12'	4°22'	T 21
F 22	13 58 50	1°32'00	24° 8'	12°58'	1°Y 0	15°19'	20°10'	12°31'	2°17'	0°27'	7°28'	24°D45	26°26'	3°19'	4°24'	F 22
S 23	14 2 47	2°30'31	7°Y33	12°D54	2°13'	16° 5'	20°24'	12°27'	2°20'	0°28'	7°28'	24°46'	26°23'	3°26'	4°27'	S 23
S 24	14 6 43	3°29'00	20°32'	12°54'	3°25'	16°51'	20°38'	12°23'	2°23'	0°30'	7°27'	24°47'	26°19'	3°32'	4°29'	S 24
M 25	14 10 40	4°27'28	3°Y 8	12°59'	4°38'	17°37'	20°53'	12°19'	2°26'	0°31'	7°27'	24°R47	26°16'	3°39'	4°32'	M 25
T 26	14 14 37	5°25'54	15°26'	13°10'	5°51'	18°23'	21° 7'	12°14'	2°29'	0°32'	7°26'	24°47'	26°13'	3°46'	4°34'	T 26
W 27	14 18 33	6°24'19	27°31'	13°25'	7° 3'	19° 9'	21°21'	12°10'	2°32'	0°33'	7°26'	24°44'	26°10'	3°52'	4°37'	W 27
T 28	14 22 30	7°22'42	9°Y28	13°45'	8°16'	19°55'	21°36'	12° 6'	2°35'	0°34'	7°25'	24°40'	26° 7'	3°59'	4°39'	T 28
F 29	14 26 26	8°21'03	21°20'	14° 9'	9°29'	20°41'	21°50'	12° 2'	2°38'	0°36'	7°25'	24°34'	26° 4'	4° 6'	4°41'	F 29
S 30	14 30 23	9°Y19'23	3°Y11	14°Y37	10°Y41	21°Y27	22°Y 4	11°Y59	2°Y41	0°Y37	7°Y24	24°Y26	26°Y 0	4°Y13	4°Y43	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
F 1	4n19	2s21	4n51	12n30	3n20	10s15	0s52	1s14	0s56	4n57	1s 5	3s 3	2n44	0s12	0s42	11s58	F 1
S 2	4 43	2n23	5 0	12 26	3 20	9 50	0 55	0 55	0 56	5 3	1 5	3 1	2 44	0 10	0 42	11 58	S 2
S 3	5 6	7 2	4 56	12 18	3 18	9 26	0 58	0 36	0 56	5 8	1 5	2 59	2 44	0 9	0 42	11 57	S 3
M 4	5 29	11 26	4 39	12 6	3 15	9 1	1 0	0 17	0 55	5 14	1 5	2 57	2 44	0 8	0 42	11 57	M 4
T 5	5 51	15 24	4 10	11 50	3 10	8 36	1 3	0n 2	0 55	5 19	1 5	2 55	2 44	0 6	0 42	11 56	T 5
W 6	6 14	18 47	3 29	11 31	3 3	8 11	1 5	0 21	0 54	5 25	1 5	2 54	2 44	0 5	0 42	11 55	W 6
T 7	6 37	21 23	2 39	11 9	2 55	7 45	1 7	0 39	0 54	5 31	1 5	2 52	2 44	0 4	0 42	11 55	T 7
F 8	7 0	23 2	1 40	10 44	2 45	7 19	1 9	0 58	0 54	5 36	1 5	2 50	2 44	0 2	0 42	11 54	F 8
S 9	7 22	23 34	0 36	10 17	2 34	6 53	1 11	1 17	0 53	5 42	1 5	2 48	2 44	0 1	0 42	11 54	S 9
S 10	7 44	22 54	0s32	9 48	2 22	6 27	1 14	1 36	0 53	5 47	1 5	2 46	2 44	0n 0	0 42	11 53	S 10
M 11	8 7	21 0	1 39	9 18	2 8	6 1	1 16	1 55	0 52	5 53	1 5	2 45	2 44	0 2	0 42	11 53	M 11
T 12	8 29	17 54	2 43	8 47	1 54	5 34	1 17	2 13	0 52	5 58	1 5	2 43	2 44	0 3	0 42	11 52	T 12
W 13	8 50	13 44	3 40	8 15	1 38	5 8	1 19	2 32	0 52	6 4	1 5	2 41	2 44	0 4	0 42	11 52	W 13
T 14	9 12	8 42	4 25	7 44	1 22	4 41	1 21	2 51	0 51	6 9	1 5	2 39	2 44	0 5	0 42	11 51	T 14
F 15	9 34	3 3	4 54	7 13	1 6	4 14	1 23	3 9	0 51	6 15	1 5	2 38	2 44	0 7	0 42	11 50	F 15
S 16	9 55	2s54	5 4	6 44	0 49	3 46	1 24	3 28	0 50	6 20	1 5	2 36	2 44	0 8	0 42	11 50	S 16
S 17	10 17	8 46	4 53	6 15	0 33	3 19	1 26	3 46	0 50	6 26	1 5	2 34	2 44	0 9	0 42	11 49	S 17
M 18	10 38	14 6	4 21	5 49	0 16	2 52	1 27	4 5	0 50	6 31	1 5	2 33	2 44	0 10	0 42	11 49	M 18
T 19	10 59	18 30	3 32	5 24	0s 0	2 24	1 29	4 23	0 49	6 37	1 5	2 31	2 44	0 12	0 42	11 49	T 19
W 20	11 19	21 37	2 28	5 2	0 16	1 56	1 30	4 41	0 49	6 42	1 5	2 29	2 44	0 13	0 42	11 48	W 20
T 21	11 40	23 15	1 17	4 42	0 32	1 29	1 31	5 0	0 48	6 47	1 5	2 28	2 44	0 14	0 42	11 48	T 21
F 22	12 0	23 22	0 3	4 24	0 47	1 1	1 32	5 18	0 48	6 53	1 5	2 26	2 44	0 15	0 43	11 47	F 22
S 23	12 21	22 5	1n 8	4 9	1 1	0 33	1 34	5 36	0 47	6 58	1 5	2 25	2 43	0 17	0 43	11 47	S 23
S 24	12 41	19 40	2 14	3 57	1 15	0 5	1 35	5 54	0 47	7 4	1 5	2 23	2 43	0 18	0 43	11 46	S 24
M 25	13 0	16 21	3 11	3 47	1 28	0n23	1 35	6 12	0 46	7 9	1 5	2 22	2 43	0 19	0 43	11 46	M 25
T 26	13 20	12 24	3 58	3 40	1 40	0 51	1 36	6 30	0 46	7 14	1 5	2 20	2 43	0 20	0 43	11 45	T 26
W 27	13 39	8 3	4 34	3 35	1 51	1 19	1 37	6 48	0 45	7 20	1 5	2 19	2 43	0 21	0 43	11 45	W 27
T 28	13 58	3 26	4 57	3 33	2 2	1 47	1 38	7 6	0 45	7 25	1 5	2 17	2 43	0 23	0 43	11 45	T 28
F 29	14 17	1n16	5 7	3 33	2 12	2 15	1 38	7 23	0 44	7 30	1 5	2 16	2 43	0 24	0 43	11 44	F 29
S 30	14n36	5n55	5n 4	3n36	2s21	2n43	1s39	7n41	0s44	7n35	1s 5	2s14	2n43	0n25	0s43	11s44	S 30

Julian Day Number = 2455652.5, Delta T = 66.39 sec

Ecliptic obliquity = 23°26'16, Nutation = 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°53'51, Lahiri = 24°00'51

ASTRODIENST EPHEMERIS for the year 2011

geocentric

MAY 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 34 19	10♌1740	15♍4	15♍10	11♍54	22♍12	22♍18	11°R55	2♍44	0♌38	7°R23	24°R17	25♌57	4♍19	4♌46	S 1
M 2	14 38 16	11°15'57	27° 1	15°47	13° 7	22°58	22°32	11♌51	2°47	0°39	7♌23	24♌9	25°54	4°26	4°48	M 2
T 3	14 42 12	12°14'11	9♌3	16°27	14°19	23°44	22°46	11°47	2°49	0°40	7°22	24° 2	25°51	4°33	4°50	T 3
W 4	14 46 9	13°12'24	21°13	17°11	15°32	24°29	23° 0	11°44	2°52	0°41	7°21	23°56	25°48	4°40	4°52	W 4
T 5	14 50 6	14°10'36	3♌32	17°59	16°45	25°15	23°14	11°40	2°55	0°42	7°21	23°52	25°44	4°46	4°54	T 5
F 6	14 54 2	15° 8'45	16° 0	18°50	17°58	26° 0	23°28	11°37	2°58	0°43	7°20	23°50	25°41	4°53	4°56	F 6
S 7	14 57 59	16° 6'53	28°39	19°44	19°10	26°46	23°42	11°33	3° 1	0°44	7°19	23°D50	25°38	5° 0	4°58	S 7
S 8	15 1 55	17° 4'59	11♌32	20°42	20°23	27°31	23°56	11°30	3° 3	0°44	7°18	23°51	25°35	5° 6	5° 0	S 8
M 9	15 5 52	18° 3'03	24°40	21°42	21°36	28°16	24°10	11°26	3° 6	0°45	7°17	23°52	25°32	5°13	5° 1	M 9
T 10	15 9 48	19° 1'05	8♌6	22°46	22°49	29° 1	24°24	11°23	3° 9	0°46	7°16	23°54	25°29	5°20	5° 3	T 10
W11	15 13 45	19°59'05	21°51	23°52	24° 1	29°47	24°38	11°20	3°11	0°47	7°16	23°R54	25°25	5°27	5° 5	W11
T 12	15 17 41	20°57'03	5♌55	25° 1	25°14	0♌32	24°51	11°17	3°14	0°48	7°15	23°53	25°22	5°33	5° 7	T 12
F 13	15 21 38	21°54'59	20°18	26°12	26°27	1°17	25° 5	11°14	3°16	0°48	7°14	23°51	25°19	5°40	5° 8	F 13
S 14	15 25 35	22°52'53	4♌57	27°27	27°40	2° 2	25°19	11°11	3°19	0°49	7°13	23°48	25°16	5°47	5°10	S 14
S 15	15 29 31	23°50'46	19°46	28°43	28°53	2°47	25°32	11° 8	3°21	0°50	7°12	23°43	25°13	5°53	5°11	S 15
M16	15 33 28	24°48'37	4♌38	0♌2	0♌5	3°32	25°46	11° 6	3°24	0°50	7°11	23°39	25°10	6° 0	5°12	M16
T 17	15 37 24	25°46'26	19°25	1°24	1°18	4°17	25°59	11° 3	3°26	0°51	7°10	23°36	25° 6	6° 7	5°14	T 17
W18	15 41 21	26°44'14	4♌7	0 2°48	2°31	5° 2	26°13	11° 0	3°28	0°51	7° 9	23°34	25° 3	6°14	5°15	W18
T 19	15 45 17	27°42'01	18°16	4°14	3°44	5°47	26°26	10°58	3°31	0°52	7° 8	23°D32	25° 0	6°20	5°16	T 19
F 20	15 49 14	28°39'46	2♌8	5°43	4°57	6°31	26°40	10°56	3°33	0°52	7° 6	23°33	24°57	6°27	5°18	F 20
S 21	15 53 10	29°37'30	15°36	7°14	6°10	7°16	26°53	10°53	3°35	0°53	7° 5	23°34	24°54	6°34	5°19	S 21
S 22	15 57 7	0♌35'13	28°39	8°47	7°23	8° 1	27° 6	10°51	3°38	0°53	7° 4	23°35	24°50	6°41	5°20	S 22
M23	16 1 4	1°32'55	11♌20	10°22	8°35	8°45	27°19	10°49	3°40	0°54	7° 3	23°37	24°47	6°47	5°21	M23
T 24	16 5 0	2°30'36	23°42	12° 0	9°48	9°30	27°32	10°47	3°42	0°54	7° 2	23°38	24°44	6°54	5°22	T 24
W25	16 8 57	3°28'15	5♌51	13°40	11° 1	10°14	27°46	10°45	3°44	0°54	7° 1	23°R38	24°41	7° 1	5°23	W25
T 26	16 12 53	4°25'54	17°49	15°22	12°14	10°59	27°59	10°43	3°46	0°55	7° 0	23°37	24°38	7° 7	5°23	T 26
F 27	16 16 50	5°23'32	29°42	17° 7	13°27	11°43	28°12	10°41	3°48	0°55	6°58	23°36	24°35	7°14	5°24	F 27
S 28	16 20 46	6°21'08	11♍34	18°53	14°40	12°28	28°24	10°40	3°50	0°55	6°57	23°34	24°31	7°21	5°25	S 28
S 29	16 24 43	7°18'44	23°29	20°42	15°53	13°12	28°37	10°38	3°52	0°55	6°56	23°31	24°28	7°28	5°26	S 29
M30	16 28 39	8°16'19	5♌31	22°33	17° 6	13°56	28°50	10°37	3°54	0°55	6°54	23°29	24°25	7°34	5°26	M30
T 31	16 32 36	9♌13'53	17♌41	24♌27	18♌19	14♌40	29♍3	10♌35	3♍56	0♌55	6♌53	23♌27	24♌22	7♍41	5♌27	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	14n54	10n21	4n48	3n41	2s29	3n11	1s39	7n58	0s43	7n41	1s 5	2s13	2n43	0n26	0s43	11s44
M 2	15 13	14 26	4 19	3 48	2 36	3 39	1 40	8 16	0 43	7 46	1 5	2 12	2 42	0 27	0 43	11 43
T 3	15 30	17 58	3 38	3 58	2 43	4 7	1 40	8 33	0 42	7 51	1 5	2 10	2 42	0 28	0 43	11 43
W 4	15 48	20 45	2 47	4 9	2 49	4 34	1 40	8 50	0 42	7 56	1 5	2 9	2 42	0 29	0 43	11 43
T 5	16 6	22 37	1 48	4 23	2 54	5 2	1 40	9 8	0 41	8 1	1 5	2 8	2 42	0 30	0 43	11 42
F 6	16 23	23 24	0 42	4 38	2 58	5 30	1 40	9 25	0 41	8 6	1 5	2 6	2 42	0 31	0 43	11 42
S 7	16 40	23 0	0s26	4 55	3 1	5 57	1 40	9 41	0 40	8 11	1 5	2 5	2 42	0 33	0 43	11 42
S 8	16 56	21 22	1 35	5 14	3 4	6 25	1 40	9 58	0 40	8 16	1 5	2 4	2 42	0 34	0 43	11 41
M 9	17 12	18 34	2 40	5 35	3 6	6 52	1 40	10 15	0 39	8 22	1 5	2 3	2 41	0 35	0 43	11 41
T 10	17 28	14 44	3 38	5 57	3 8	7 19	1 40	10 32	0 39	8 27	1 5	2 2	2 41	0 36	0 43	11 41
W11	17 44	10 3	4 25	6 20	3 9	7 46	1 40	10 48	0 38	8 32	1 5	2 1	2 41	0 37	0 43	11 41
T 12	18 0	4 44	4 57	6 45	3 9	8 13	1 39	11 4	0 37	8 37	1 5	2 0	2 41	0 38	0 43	11 40
F 13	18 15	0s56	5 12	7 12	3 8	8 40	1 39	11 21	0 37	8 41	1 6	1 59	2 41	0 39	0 43	11 40
S 14	18 29	6 39	5 6	7 39	3 7	9 7	1 38	11 37	0 36	8 46	1 6	1 58	2 41	0 40	0 43	11 40
S 15	18 44	12 3	4 41	8 8	3 5	9 33	1 38	11 53	0 36	8 51	1 6	1 57	2 40	0 41	0 43	11 40
M16	18 58	16 46	3 56	8 38	3 2	9 59	1 37	12 8	0 35	8 56	1 6	1 56	2 40	0 42	0 43	11 40
T 17	19 12	20 24	2 56	9 9	2 59	10 25	1 37	12 24	0 35	9 1	1 6	1 55	2 40	0 42	0 43	11 39
W18	19 26	22 40	1 45	9 41	2 56	10 51	1 36	12 40	0 34	9 6	1 6	1 54	2 40	0 43	0 43	11 39
T 19	19 39	23 24	0 29	10 14	2 51	11 16	1 35	12 55	0 33	9 11	1 6	1 53	2 40	0 44	0 43	11 39
F 20	19 52	22 38	0n47	10 48	2 47	11 42	1 34	13 11	0 33	9 15	1 6	1 53	2 39	0 45	0 43	11 39
S 21	20 4	20 34	1 58	11 23	2 41	12 7	1 33	13 26	0 32	9 20	1 6	1 52	2 39	0 46	0 43	11 39
S 22	20 16	17 28	3 1	11 58	2 35	12 31	1 32	13 41	0 32	9 25	1 6	1 51	2 39	0 47	0 43	11 39
M23	20 28	13 38	3 53	12 34	2 29	12 56	1 31	13 56	0 31	9 29	1 6	1 51	2 39	0 48	0 43	11 38
T 24	20 40	9 19	4 33	13 11	2 22	13 20	1 30	14 10	0 30	9 34	1 6	1 50	2 39	0 49	0 43	11 38
W25	20 51	4 43	5 0	13 48	2 15	13 44	1 28	14 25	0 30	9 39	1 6	1 50	2 38	0 49	0 43	11 38
T 26	21 2	0 0	5 13	14 25	2 7	14 7	1 27	14 39	0 29	9 43	1 6	1 49	2 38	0 50	0 43	11 38
F 27	21 12	4n40	5 13	15 3	1 58	14 31	1 26	14 54	0 29	9 48	1 7	1 49	2 38	0 51	0 43	11 38
S 28	21 22	9 10	5 0	15 41	1 50	14 54	1 24	15 8	0 28	9 52	1 7	1 48	2 38	0 52	0 43	11 38
S 29	21 32	13 21	4 33	16 19	1 41	15 16	1 23	15 22	0 27	9 57	1 7	1 48	2 37	0 52	0 43	11 38
M30	21 41	17 2	3 55	16 56	1 31	15 38	1 21	15 36	0 27	10 1	1 7	1 47	2 37	0 53	0 43	11 38
T 31	21n50	20n 3	3n 5	17n34	1s21	16n 0	1s20	15n49	0s26	10n 5	1s 7	1s47	2n37	0n54	0s43	11s38

Julian Day Number = 2455682.5, Delta T = 66.41 sec
 Ecliptic obliquity = 23°26'16, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°53'55, Lahiri = 24°00'55

ASTRODIENST EPHEMERIS for the year 2011

geocentric

JULY 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 34 49	8♌51'10	4♌17	27♌51	26♌7	7♌1	4♌56	10♌43	4♌32	0♌44	6♌8	23♌28	22♌43	11♌9	5♌15	F 1
S 2	18 38 46	9♌48'24	17°40	29°36	27°20	7°44	5°5	10°44	4°32	0♌43	6♌6	23♌27	22°40	11°16	5♌14	S 2
S 3	18 42 42	10°45'38	1♌19	1♌16	28°33	8°26	5°15	10°46	4°33	0°42	6°5	23°25	22°37	11°23	5°12	S 3
M 4	18 46 39	11°42'51	15°12	2°54	29°47	9°8	5°25	10°48	4°33	0°41	6°3	23°23	22°34	11°29	5°11	M 4
T 5	18 50 36	12°40'04	29°16	4°30	1♌0	9°50	5°34	10°50	4°33	0°40	6°2	23°21	22°31	11°36	5°10	T 5
W 6	18 54 32	13°37'17	13♌27	6°4	2°14	10°32	5°43	10°53	4°33	0°39	6°0	23°18	22°27	11°43	5°8	W 6
T 7	18 58 29	14°34'30	27°41	7°35	3°27	11°14	5°53	10°55	4°34	0°38	5°59	23°17	22°24	11°50	5°7	T 7
F 8	19 2 25	15°31'42	11♌56	9°4	4°41	11°56	6°2	10°57	4°34	0°37	5°57	23°D16	22°21	11°56	5°5	F 8
S 9	19 6 22	16°28'54	26°9	10°31	5°54	12°38	6°11	11°0	4°34	0°36	5°56	23°16	22°18	12°3	5°3	S 9
S 10	19 10 18	17°26'06	10♌17	11°56	7°8	13°20	6°19	11°2	4°R34	0°35	5°54	23°17	22°15	12°10	5°2	S 10
M 11	19 14 15	18°23'18	24°19	13°18	8°21	14°2	6°28	11°5	4°34	0°34	5°53	23°18	22°12	12°16	5°0	M 11
T 12	19 18 11	19°20'30	8♌13	14°38	9°35	14°43	6°37	11°8	4°34	0°33	5°51	23°20	22°8	12°23	4°58	T 12
W 13	19 22 8	20°17'42	21°57	15°56	10°48	15°25	6°45	11°11	4°34	0°32	5°50	23°R20	22°5	12°30	4°56	W 13
T 14	19 26 5	21°14'54	5♌29	17°11	12°2	16°6	6°53	11°14	4°33	0°30	5°48	23°20	22°2	12°37	4°54	T 14
F 15	19 30 1	22°12'06	18°49	18°23	13°15	16°48	7°2	11°17	4°33	0°29	5°47	23°18	21°59	12°43	4°53	F 15
S 16	19 33 58	23°9'18	1♌54	19°33	14°29	17°29	7°10	11°20	4°33	0°28	5°46	23°15	21°56	12°50	4°51	S 16
S 17	19 37 54	24°6'31	14°43	20°41	15°43	18°11	7°17	11°23	4°33	0°27	5°44	23°10	21°53	12°57	4°49	S 17
M 18	19 41 51	25°3'44	27°18	21°46	16°56	18°52	7°25	11°26	4°32	0°26	5°43	23°5	21°49	13°3	4°47	M 18
T 19	19 45 47	26°0'58	9♌39	22°48	18°10	19°33	7°33	11°30	4°32	0°24	5°41	23°0	21°46	13°10	4°44	T 19
W 20	19 49 44	26°58'12	21°47	23°47	19°24	20°14	7°40	11°33	4°31	0°23	5°40	22°55	21°43	13°17	4°42	W 20
T 21	19 53 40	27°55'27	3♌46	24°43	20°37	20°56	7°48	11°37	4°31	0°22	5°38	22°51	21°40	13°24	4°40	T 21
F 22	19 57 37	28°52'42	15°40	25°35	21°51	21°37	7°55	11°40	4°30	0°20	5°37	22°48	21°37	13°30	4°38	F 22
S 23	20 1 34	29°49'59	27°32	26°25	23°5	22°18	8°2	11°44	4°30	0°19	5°36	22°D47	21°33	13°37	4°36	S 23
S 24	20 5 30	0♌47'16	9♌28	27°11	24°19	22°59	8°9	11°48	4°29	0°18	5°34	22°48	21°30	13°44	4°33	S 24
M 25	20 9 27	1°44'34	21°32	27°54	25°32	23°39	8°15	11°52	4°29	0°16	5°33	22°49	21°27	13°50	4°31	M 25
T 26	20 13 23	2°41'54	3♌50	28°33	26°46	24°20	8°22	11°56	4°28	0°15	5°32	22°51	21°24	13°57	4°29	T 26
W 27	20 17 20	3°39'14	16°25	29°8	28°0	25°1	8°28	12°0	4°27	0°14	5°30	22°R52	21°21	14°4	4°26	W 27
T 28	20 21 16	4°36'34	29°21	29°39	29°14	25°42	8°35	12°4	4°26	0°12	5°29	22°52	21°18	14°11	4°24	T 28
F 29	20 25 13	5°33'56	12♌40	0♌6	0♌28	26°22	8°41	12°8	4°25	0°11	5°28	22°50	21°14	14°17	4°21	F 29
S 30	20 29 9	6°31'19	26°22	0°29	1°42	27°3	8°47	12°12	4°24	0°9	5°27	22°46	21°11	14°24	4°19	S 30
S 31	20 33 6	7♌28'42	10♌25	0♌47	2♌56	27♌43	8♌52	12♌17	4♌23	0♌8	5♌25	22♌41	21♌8	14♌31	4♌16	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	23n 8	22n23	0s59	22n21	1n48	23n 9	0s13	21n24	0s 5	12n 3	1s11	1s57	2n29	1n 7	0s44	F 1
S 2	23 4	20 8	2 10	21 56	1 45	23 14	0 11	21 31	0 5	12 6	1 11	1 58	2 29	1 7	0 44	S 2
S 3	23 0	16 43	3 14	21 31	1 41	23 17	0 8	21 39	0 4	12 9	1 11	1 59	2 29	1 8	0 44	S 3
M 4	22 55	12 20	4 8	21 4	1 36	23 20	0 6	21 46	0 3	12 12	1 11	2 0	2 29	1 8	0 45	M 4
T 5	22 50	7 14	4 47	20 36	1 30	23 22	0 4	21 53	0 2	12 15	1 11	2 1	2 28	1 8	0 45	T 5
W 6	22 44	1 44	5 10	20 7	1 25	23 24	0 1	22 0	0 2	12 18	1 12	2 2	2 28	1 8	0 45	W 6
T 7	22 38	3s53	5 14	19 38	1 18	23 25	0n 1	22 6	0 1	12 21	1 12	2 3	2 28	1 8	0 45	T 7
F 8	22 32	9 17	4 58	19 8	1 11	23 25	0 4	22 13	0 0	12 24	1 12	2 4	2 28	1 8	0 45	F 8
S 9	22 25	14 12	4 24	18 37	1 4	23 25	0 6	22 19	0n 0	12 27	1 12	2 5	2 28	1 8	0 45	S 9
S 10	22 18	18 18	3 35	18 6	0 56	23 23	0 9	22 25	0 1	12 29	1 12	2 7	2 27	1 8	0 45	S 10
M 11	22 10	21 19	2 33	17 35	0 48	23 21	0 11	22 31	0 2	12 32	1 12	2 8	2 27	1 8	0 45	M 11
T 12	22 3	23 2	1 22	17 4	0 39	23 19	0 13	22 36	0 3	12 35	1 13	2 9	2 27	1 8	0 45	T 12
W 13	21 54	23 19	0 8	16 32	0 30	23 16	0 16	22 42	0 3	12 37	1 13	2 10	2 27	1 8	0 45	W 13
T 14	21 46	22 13	1n 6	16 0	0 20	23 12	0 18	22 47	0 4	12 40	1 13	2 12	2 26	1 8	0 45	T 14
F 15	21 36	19 53	2 15	15 28	0 10	23 7	0 21	22 52	0 5	12 42	1 13	2 13	2 26	1 7	0 45	F 15
S 16	21 27	16 34	3 15	14 57	0s 1	23 2	0 23	22 56	0 6	12 45	1 13	2 15	2 26	1 7	0 45	S 16
S 17	21 17	12 31	4 4	14 25	0 11	22 56	0 25	23 1	0 6	12 47	1 14	2 16	2 26	1 7	0 45	S 17
M 18	21 7	8 1	4 41	13 54	0 22	22 49	0 27	23 5	0 7	12 49	1 14	2 18	2 25	1 7	0 45	M 18
T 19	20 57	3 16	5 3	13 23	0 34	22 42	0 30	23 9	0 8	12 52	1 14	2 19	2 25	1 7	0 45	T 19
W 20	20 46	1n31	5 11	12 53	0 46	22 34	0 32	23 13	0 9	12 54	1 14	2 21	2 25	1 7	0 45	W 20
T 21	20 35	6 10	5 6	12 23	0 58	22 25	0 34	23 17	0 9	12 56	1 14	2 22	2 25	1 6	0 45	T 21
F 22	20 23	10 35	4 47	11 54	1 10	22 16	0 36	23 20	0 10	12 58	1 14	2 24	2 25	1 6	0 45	F 22
S 23	20 11	14 35	4 16	11 25	1 22	22 6	0 38	23 24	0 11	13 0	1 15	2 25	2 24	1 6	0 45	S 23
S 24	19 59	18 1	3 34	10 58	1 35	21 55	0 40	23 27	0 12	13 2	1 15	2 27	2 24	1 6	0 45	S 24
M 25	19 46	20 45	2 42	10 31	1 48	21 44	0 43	23 29	0 12	13 4	1 15	2 29	2 24	1 5	0 45	M 25
T 26	19 33	22 35	1 42	10 5	2 1	21 32	0 45	23 32	0 13	13 6	1 15	2 31	2 24	1 5	0 45	T 26
W 27	19 20	23 19	0 35	9 41	2 14	21 19	0 47	23 34	0 14	13 8	1 15	2 32	2 23	1 5	0 45	W 27
T 28	19 7	22 51	0s35	9 18	2 27	21 6	0 49	23 37	0 15	13 10	1 16	2 34	2 23	1 4	0 45	T 28
F 29	18 53	21 5	1 45	8 57	2 40	20 52	0 50	23 39	0 15	13 12	1 16	2 36	2 23	1 4	0 45	F 29
S 30	18 38	18 5	2 51	8 37	2 52	20 38	0 52	23 40	0 16	13 13	1 16	2 38	2 23	1 3	0 45	S 30
S 31	18n24	13n58	3s48	8n18	3s 5	20n23	0n54	23n42	0n17	13n15	1s16	2s40	2n23	1n 3	0s45	S 31

Julian Day Number = 2455743.5, Delta T = 66.46 sec
 Ecliptic obliquity = 23°26'14, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'03, Lahiri = 24°01'04

ASTRODIENST EPHEMERIS for the year 2011

geocentric

AUGUST 2011

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 37 3	8♌26°07	24♌45	1♍0	4♌10	28♌24	8♌58	12♌21	4♌R22	0♌R 6	5♌R24	22♌R34	21♌5	14♌Y37	4♌R14	M 1
T 2	20 40 59	9♍23°31	9♍17	1° 9	5°23	29° 4	9° 3	12°26	4♌Y21	0♌X 5	5♌Z23	22♌Y27	21° 2	14°44	4♌X11	T 2
W 3	20 44 56	10°20'57	23°53	1°R12	6°37	29°44	9° 9	12°30	4°20	0° 3	5°22	22°20	20°59	14°51	4° 9	W 3
T 4	20 48 52	11°18'23	8♌27	1°10	7°51	0♌Z25	9°14	12°35	4°19	0° 2	5°21	22°15	20°55	14°58	4° 6	T 4
F 5	20 52 49	12°15'50	22°53	1° 3	9° 5	1° 5	9°19	12°40	4°18	0° 0	5°19	22°11	20°52	15° 4	4° 3	F 5
S 6	20 56 45	13°13'17	7♌ 8	0°51	10°19	1°45	9°23	12°44	4°17	29°≈59	5°18	22°D10	20°49	15°11	4° 1	S 6
S 7	21 0 42	14°10'46	21° 9	0°33	11°33	2°25	9°28	12°49	4°16	29°57	5°17	22°10	20°46	15°18	3°58	S 7
M 8	21 4 38	15° 8'15	4♌Y57	0°11	12°47	3° 5	9°32	12°54	4°14	29°56	5°16	22°11	20°43	15°24	3°55	M 8
T 9	21 8 35	16° 5'45	18°31	29♌Q43	14° 1	3°45	9°36	12°59	4°13	29°54	5°15	22°R12	20°39	15°31	3°52	T 9
W10	21 12 32	17° 3'15	1♌52	29°10	15°16	4°24	9°40	13° 4	4°12	29°52	5°14	22°11	20°36	15°38	3°50	W10
T 11	21 16 28	18° 0'47	15° 1	28°33	16°30	5° 4	9°44	13° 9	4°10	29°51	5°13	22° 9	20°33	15°45	3°47	T 11
F 12	21 20 25	18°58'19	27°58	27°52	17°44	5°44	9°48	13°15	4° 9	29°49	5°12	22° 4	20°30	15°51	3°44	F 12
S 13	21 24 21	19°55'53	10°≈44	27° 8	18°58	6°23	9°51	13°20	4° 7	29°48	5°11	21°57	20°27	15°58	3°41	S 13
S 14	21 28 18	20°53'27	23°19	26°21	20°12	7° 3	9°55	13°25	4° 6	29°46	5°10	21°48	20°24	16° 5	3°38	S 14
M15	21 32 14	21°51'03	5♌X43	25°32	21°26	7°42	9°58	13°31	4° 4	29°44	5° 9	21°37	20°20	16°11	3°36	M15
T 16	21 36 11	22°48'40	17°56	24°42	22°40	8°22	10° 1	13°36	4° 2	29°43	5° 8	21°26	20°17	16°18	3°33	T 16
W17	21 40 7	23°46'18	29°59	23°51	23°54	9° 1	10° 3	13°42	4° 1	29°41	5° 7	21°16	20°14	16°25	3°30	W17
T 18	21 44 4	24°43'58	11♌Y55	23° 1	25° 9	9°40	10° 6	13°47	3°59	29°39	5° 6	21° 7	20°11	16°32	3°27	T 18
F 19	21 48 1	25°41'39	23°47	22°14	26°23	10°19	10° 8	13°53	3°57	29°38	5° 6	21° 0	20° 8	16°38	3°24	F 19
S 20	21 51 57	26°39'22	5♌X37	21°29	27°37	10°59	10°11	13°58	3°56	29°36	5° 5	20°55	20° 5	16°45	3°21	S 20
S 21	21 55 54	27°37'06	17°31	20°47	28°51	11°38	10°12	14° 4	3°54	29°35	5° 4	20°53	20° 1	16°52	3°18	S 21
M22	21 59 50	28°34'52	29°33	20°11	0♌Y 6	12°17	10°14	14°10	3°52	29°33	5° 3	20°D52	19°58	16°58	3°15	M22
T 23	22 3 47	29°32'40	11♌II49	19°39	1°20	12°55	10°16	14°16	3°50	29°31	5° 2	20°53	19°55	17° 5	3°12	T 23
W24	22 7 43	0♌Y30'30	24°23	19°14	2°34	13°34	10°17	14°22	3°48	29°30	5° 2	20°R53	19°52	17°12	3° 9	W24
T 25	22 11 40	1°28'21	7♌Z20	18°56	3°49	14°13	10°18	14°28	3°47	29°28	5° 1	20°52	19°49	17°18	3° 6	T 25
F 26	22 15 36	2°26'14	20°44	18°45	5° 3	14°52	10°19	14°34	3°45	29°26	5° 0	20°49	19°45	17°25	3° 3	F 26
S 27	22 19 33	3°24'09	4♌Q35	18°D42	6°17	15°30	10°20	14°40	3°43	29°25	5° 0	20°43	19°42	17°32	3° 0	S 27
S 28	22 23 30	4°22'05	18°53	18°46	7°32	16° 9	10°21	14°46	3°41	29°23	4°59	20°35	19°39	17°39	2°57	S 28
M29	22 27 26	5°20'03	3♌Y34	18°59	8°46	16°47	10°21	14°52	3°39	29°21	4°59	20°25	19°36	17°45	2°55	M29
T 30	22 31 23	6°18'02	18°29	19°20	10° 0	17°26	10°R21	14°58	3°37	29°20	4°58	20°14	19°33	17°52	2°52	T 30
W31	22 35 19	7♌Y16'03	3♌Z29	19♌Q49	11♌Y15	18°Z 4	10♌Z21	15°Z 5	3°Y35	29°≈18	4°Z58	20°X 4	19°X30	17°Y59	2°X49	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n 9	8n59	4s32	8n 2	3s18	20n 7	0n56	23n43	0n18	13n17	1s16	2s42	2n22	1n 3	0s45	11s57
T 2	17 54	3 28	4 59	7 48	3 30	19 51	0 58	23 44	0 18	13 18	1 17	2 44	2 22	1 2	0 45	11 57
W 3	17 39	2s16	5 7	7 35	3 42	19 35	0 59	23 45	0 19	13 20	1 17	2 45	2 22	1 2	0 45	11 58
T 4	17 23	7 52	4 55	7 25	3 53	19 17	1 1	23 46	0 20	13 21	1 17	2 47	2 22	1 1	0 46	11 59
F 5	17 7	12 59	4 25	7 18	4 4	18 59	1 3	23 47	0 21	13 22	1 17	2 49	2 22	1 1	0 46	11 59
S 6	16 51	17 19	3 38	7 13	4 14	18 41	1 4	23 47	0 21	13 24	1 17	2 52	2 22	1 0	0 46	12 0
S 7	16 34	20 36	2 39	7 11	4 23	18 22	1 6	23 47	0 22	13 25	1 18	2 54	2 21	1 0	0 46	12 0
M 8	16 18	22 37	1 31	7 11	4 31	18 3	1 7	23 47	0 23	13 26	1 18	2 56	2 21	0 59	0 46	12 1
T 9	16 1	23 16	0 20	7 14	4 38	17 43	1 9	23 47	0 24	13 27	1 18	2 58	2 21	0 59	0 46	12 1
W10	15 43	22 34	0n52	7 20	4 43	17 22	1 10	23 46	0 24	13 28	1 18	3 0	2 21	0 58	0 46	12 2
T 11	15 26	20 37	1 59	7 29	4 47	17 2	1 11	23 46	0 25	13 29	1 19	3 2	2 21	0 57	0 46	12 2
F 12	15 8	17 38	2 59	7 40	4 50	16 40	1 13	23 45	0 26	13 30	1 19	3 4	2 20	0 57	0 46	12 3
S 13	14 50	13 52	3 49	7 55	4 51	16 18	1 14	23 44	0 27	13 31	1 19	3 6	2 20	0 56	0 46	12 4
S 14	14 32	9 32	4 27	8 11	4 50	15 56	1 15	23 43	0 28	13 32	1 19	3 9	2 20	0 56	0 46	12 4
M15	14 13	4 53	4 52	8 30	4 47	15 33	1 16	23 41	0 28	13 33	1 19	3 11	2 20	0 55	0 46	12 5
T 16	13 55	0 7	5 3	8 51	4 42	15 10	1 17	23 40	0 29	13 33	1 20	3 13	2 20	0 54	0 46	12 5
W17	13 36	4n35	5 0	9 13	4 36	14 47	1 18	23 38	0 30	13 34	1 20	3 15	2 20	0 54	0 46	12 6
T 18	13 17	9 4	4 44	9 37	4 28	14 23	1 19	23 36	0 31	13 35	1 20	3 18	2 19	0 53	0 46	12 7
F 19	12 57	13 11	4 16	10 2	4 17	13 58	1 20	23 34	0 32	13 35	1 20	3 20	2 19	0 52	0 46	12 7
S 20	12 38	16 48	3 36	10 28	4 6	13 34	1 21	23 31	0 32	13 36	1 20	3 22	2 19	0 52	0 46	12 8
S 21	12 18	19 44	2 48	10 53	3 52	13 8	1 21	23 29	0 33	13 36	1 21	3 25	2 19	0 51	0 46	12 8
M22	11 58	21 52	1 51	11 19	3 38	12 43	1 22	23 26	0 34	13 36	1 21	3 27	2 19	0 50	0 46	12 9
T 23	11 38	23 0	0 48	11 43	3 22	12 17	1 23	23 23	0 35	13 37	1 21	3 30	2 19	0 49	0 46	12 9
W24	11 18	23 1	0s19	12 7	3 5	11 51	1 23	23 20	0 35	13 37	1 21	3 32	2 19	0 49	0 46	12 10
T 25	10 57	21 48	1 26	12 29	2 48	11 24	1 24	23 17	0 36	13 37	1 22	3 34	2 18	0 48	0 46	12 11
F 26	10 36	19 21	2 31	12 49	2 30	10 58	1 24	23 13	0 37	13 37	1 22	3 37	2 18	0 47	0 46	12 11
S 27	10 15	15 43	3 30	13 8	2 12	10 31	1 24	23 10	0 38	13 37	1 22	3 39	2 18	0 46	0 46	12 12
S 28	9 54	11 5	4 17	13 24	1 53	10 3	1 25	23 6	0 39	13 37	1 22	3 42	2 18	0 45	0 46	12 12
M29	9 33	5 43	4 48	13 37	1 35	9 36	1 25	23 2	0 39	13 37	1 22	3 44	2 18	0 45	0 46	12 13
T 30	9 12	0s 4	5 1	13 48	1 17	9 8	1 25	22 58	0 40	13 37	1 23	3 47	2 18	0 44	0 46	12 14
W31	8n50	5s52	4s53	13n56	0s59	8n39	1n25	22n54	0n41	13n37	1s23	3s49	2n18	0n43	0s46	12s14

Julian Day Number = 2455774.5, Delta T = 66.48 sec
 Ecliptic obliquity = 23°26'15, Nutation = 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'07, Lahiri = 24°01'08

ASTRODIENST EPHEMERIS for the year 2011

geocentric

SEPTEMBER 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 39 16	8 ^h 14'06	18 ^h 26	20 ^h 26	12 ^h 29	18 ^h 42	10 ^h 21	15 ^h 11	3 ^h 32	29 ^h 17	4 ^h 57	19 ^h 55	19 ^h 26	18 ^h 15	2 ^h 46	T 1
F 2	22 43 12	9 ^h 12'09	3 ^h 10	21 ^h 11	13 ^h 44	19 ^h 21	10 ^h 21	15 ^h 17	3 ^h 30	29 ^h 15	4 ^h 57	19 ^h 49	19 ^h 23	18 ^h 12	2 ^h 43	F 2
S 3	22 47 9	10 ^h 10'15	17 ^h 37	22 ^h 4	14 ^h 58	19 ^h 59	10 ^h 20	15 ^h 24	3 ^h 28	29 ^h 13	4 ^h 56	19 ^h 45	19 ^h 20	18 ^h 19	2 ^h 40	S 3
S 4	22 51 5	11 ^h 8'21	1 ^h 43	23 ^h 4	16 ^h 12	20 ^h 37	10 ^h 19	15 ^h 30	3 ^h 26	29 ^h 12	4 ^h 56	19 ^h 44	19 ^h 17	18 ^h 26	2 ^h 37	S 4
M 5	22 55 2	12 ^h 6'30	15 ^h 27	24 ^h 10	17 ^h 27	21 ^h 15	10 ^h 18	15 ^h 37	3 ^h 24	29 ^h 10	4 ^h 55	19 ^h 43	19 ^h 14	18 ^h 32	2 ^h 34	M 5
T 6	22 58 59	13 ^h 4'39	28 ^h 52	25 ^h 24	18 ^h 41	21 ^h 52	10 ^h 17	15 ^h 43	3 ^h 22	29 ^h 9	4 ^h 55	19 ^h 43	19 ^h 11	18 ^h 39	2 ^h 31	T 6
W 7	23 2 55	14 ^h 2'50	11 ^h 35	26 ^h 43	19 ^h 56	22 ^h 30	10 ^h 16	15 ^h 50	3 ^h 19	29 ^h 7	4 ^h 55	19 ^h 42	19 ^h 7	18 ^h 46	2 ^h 28	W 7
T 8	23 6 52	15 ^h 1'03	24 ^h 51	28 ^h 7	21 ^h 10	23 ^h 8	10 ^h 14	15 ^h 56	3 ^h 17	29 ^h 5	4 ^h 54	19 ^h 38	19 ^h 4	18 ^h 52	2 ^h 25	T 8
F 9	23 10 48	15 ^h 59'16	7 ^h 31	29 ^h 37	22 ^h 25	23 ^h 45	10 ^h 12	16 ^h 3	3 ^h 15	29 ^h 4	4 ^h 54	19 ^h 32	19 ^h 1	18 ^h 59	2 ^h 23	F 9
S 10	23 14 45	16 ^h 57'32	20 ^h 0	1 ^h 11	23 ^h 39	24 ^h 23	10 ^h 10	16 ^h 10	3 ^h 13	29 ^h 2	4 ^h 54	19 ^h 23	18 ^h 58	19 ^h 6	2 ^h 20	S 10
S 11	23 18 41	17 ^h 55'49	2 ^h 20	2 ^h 49	24 ^h 54	25 ^h 0	10 ^h 8	16 ^h 16	3 ^h 10	29 ^h 1	4 ^h 54	19 ^h 11	18 ^h 55	19 ^h 12	2 ^h 17	S 11
M 12	23 22 38	18 ^h 54'08	14 ^h 31	4 ^h 30	26 ^h 8	25 ^h 38	10 ^h 5	16 ^h 23	3 ^h 8	28 ^h 59	4 ^h 54	18 ^h 57	18 ^h 51	19 ^h 19	2 ^h 14	M 12
T 13	23 26 34	19 ^h 52'28	26 ^h 35	6 ^h 14	27 ^h 23	26 ^h 15	10 ^h 3	16 ^h 30	3 ^h 6	28 ^h 58	4 ^h 54	18 ^h 43	18 ^h 48	19 ^h 26	2 ^h 11	T 13
W 14	23 30 31	20 ^h 50'51	8 ^h 33	8 ^h 1	28 ^h 37	26 ^h 52	10 ^h 0	16 ^h 37	3 ^h 3	28 ^h 56	4 ^h 53	18 ^h 30	18 ^h 45	19 ^h 33	2 ^h 9	W 14
T 15	23 34 28	21 ^h 49'15	20 ^h 26	9 ^h 49	29 ^h 52	27 ^h 29	9 ^h 57	16 ^h 44	3 ^h 1	28 ^h 55	4 ^h 53	18 ^h 18	18 ^h 42	19 ^h 39	2 ^h 6	T 15
F 16	23 38 24	22 ^h 47'42	2 ^h 16	11 ^h 39	1 ^h 6	28 ^h 7	9 ^h 54	16 ^h 51	2 ^h 59	28 ^h 53	4 ^h 53	18 ^h 9	18 ^h 39	19 ^h 46	2 ^h 3	F 16
S 17	23 42 21	23 ^h 46'10	14 ^h 5	13 ^h 30	2 ^h 21	28 ^h 43	9 ^h 50	16 ^h 58	2 ^h 56	28 ^h 52	4 ^h 53	18 ^h 2	18 ^h 36	19 ^h 53	2 ^h 1	S 17
S 18	23 46 17	24 ^h 44'41	25 ^h 58	15 ^h 21	3 ^h 35	29 ^h 20	9 ^h 47	17 ^h 4	2 ^h 54	28 ^h 50	4 ^h 53	17 ^h 58	18 ^h 32	19 ^h 59	1 ^h 58	S 18
M 19	23 50 14	25 ^h 43'14	7 ^h 11	17 ^h 13	4 ^h 50	29 ^h 57	9 ^h 43	17 ^h 11	2 ^h 52	28 ^h 49	4 ^h 53	17 ^h 57	18 ^h 29	20 ^h 6	1 ^h 55	M 19
T 20	23 54 10	26 ^h 41'49	20 ^h 11	19 ^h 5	6 ^h 4	0 ^h 34	9 ^h 39	17 ^h 18	2 ^h 49	28 ^h 48	4 ^h 53	17 ^h 56	18 ^h 26	20 ^h 13	1 ^h 53	T 20
W 21	23 58 7	27 ^h 40'26	2 ^h 41	20 ^h 58	7 ^h 19	1 ^h 11	9 ^h 35	17 ^h 25	2 ^h 47	28 ^h 46	4 ^h 54	17 ^h 56	18 ^h 23	20 ^h 19	1 ^h 50	W 21
T 22	0 2 3	28 ^h 39'06	15 ^h 35	22 ^h 50	8 ^h 34	1 ^h 47	9 ^h 31	17 ^h 33	2 ^h 44	28 ^h 45	4 ^h 54	17 ^h 55	18 ^h 20	20 ^h 26	1 ^h 48	T 22
F 23	0 6 0	29 ^h 37'47	28 ^h 55	24 ^h 41	9 ^h 48	2 ^h 24	9 ^h 26	17 ^h 40	2 ^h 42	28 ^h 43	4 ^h 54	17 ^h 53	18 ^h 16	20 ^h 33	1 ^h 45	F 23
S 24	0 9 57	0 ^h 36'31	12 ^h 44	26 ^h 33	11 ^h 3	3 ^h 0	9 ^h 22	17 ^h 47	2 ^h 40	28 ^h 42	4 ^h 54	17 ^h 47	18 ^h 13	20 ^h 40	1 ^h 43	S 24
S 25	0 13 53	1 ^h 35'17	27 ^h 4	28 ^h 23	12 ^h 17	3 ^h 36	9 ^h 17	17 ^h 54	2 ^h 37	28 ^h 41	4 ^h 54	17 ^h 39	18 ^h 10	20 ^h 46	1 ^h 40	S 25
M 26	0 17 50	2 ^h 34'06	11 ^h 50	0 ^h 13	13 ^h 32	4 ^h 12	9 ^h 12	18 ^h 1	2 ^h 35	28 ^h 39	4 ^h 55	17 ^h 30	18 ^h 7	20 ^h 53	1 ^h 38	M 26
T 27	0 21 46	3 ^h 32'56	26 ^h 56	2 ^h 2	14 ^h 47	4 ^h 48	9 ^h 7	18 ^h 8	2 ^h 32	28 ^h 38	4 ^h 55	17 ^h 19	18 ^h 4	21 ^h 0	1 ^h 35	T 27
W 28	0 25 43	4 ^h 31'48	12 ^h 11	3 ^h 51	16 ^h 1	5 ^h 24	9 ^h 1	18 ^h 15	2 ^h 30	28 ^h 37	4 ^h 55	17 ^h 9	18 ^h 1	21 ^h 6	1 ^h 33	W 28
T 29	0 29 39	5 ^h 30'42	27 ^h 25	5 ^h 38	17 ^h 16	6 ^h 0	8 ^h 56	18 ^h 23	2 ^h 27	28 ^h 36	4 ^h 56	17 ^h 0	17 ^h 57	21 ^h 13	1 ^h 31	T 29
F 30	0 33 36	6 ^h 29'39	12 ^h 28	7 ^h 25	18 ^h 30	6 ^h 36	8 ^h 50	18 ^h 30	2 ^h 25	28 ^h 34	4 ^h 56	16 ^h 53	17 ^h 54	21 ^h 20	1 ^h 29	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 2011

geocentric

OCTOBER 2011

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 37 32	7♂28'37	27♂10	9♂11	19♂45	7♂12	8♂R44	18♂37	2♂R23	28♂R33	4♂56	16♂R50	17♂51	21♂Y26	1♂R26	S 1
S 2	0 41 29	8°27'37	11♂28	10°56	21° 0	7°47	8♂38	18°44	2♂Y20	28♂32	4°57	16°D48	17°48	21°33	1♂24	S 2
M 3	0 45 25	9°26'39	25°20	12°40	22°14	8°23	8°32	18°52	2°18	28°31	4°57	16°48	17°45	21°40	1°22	M 3
T 4	0 49 22	10°25'42	8♂36	14°23	23°29	8°58	8°26	18°59	2°16	28°30	4°58	16°R49	17°42	21°47	1°20	T 4
W 5	0 53 19	11°24'47	21°50	16° 6	24°43	9°34	8°20	19° 6	2°13	28°29	4°58	16°48	17°38	21°53	1°18	W 5
T 6	0 57 15	12°23'54	4♂35	17°48	25°58	10° 9	8°13	19°13	2°11	28°28	4°59	16°46	17°35	22° 0	1°16	T 6
F 7	1 1 12	13°23'03	17° 5	19°28	27°13	10°44	8° 6	19°21	2° 8	28°27	5° 0	16°41	17°32	22° 7	1°14	F 7
S 8	1 5 8	14°22'13	29°23	21° 8	28°27	11°19	8° 0	19°28	2° 6	28°26	5° 0	16°34	17°29	22°13	1°12	S 8
S 9	1 9 5	15°21'25	11♂31	22°48	29°42	11°54	7°53	19°35	2° 4	28°25	5° 1	16°24	17°26	22°20	1°10	S 9
M10	1 13 1	16°20'39	23°33	24°26	0♂56	12°29	7°46	19°43	2° 1	28°24	5° 2	16°13	17°22	22°27	1° 8	M10
T 11	1 16 58	17°19'55	5♂Y29	26° 4	2°11	13° 3	7°39	19°50	1°59	28°23	5° 2	16° 1	17°19	22°33	1° 7	T 11
W12	1 20 54	18°19'13	17°22	27°41	3°26	13°38	7°31	19°57	1°57	28°22	5° 3	15°50	17°16	22°40	1° 5	W12
T 13	1 24 51	19°18'33	29°13	29°17	4°40	14°12	7°24	20° 5	1°55	28°21	5° 4	15°41	17°13	22°47	1° 3	T 13
F 14	1 28 48	20°17'56	11♂4	0♂52	5°55	14°47	7°17	20°12	1°52	28°20	5° 5	15°33	17°10	22°54	1° 2	F 14
S 15	1 32 44	21°17'20	22°56	2°27	7°10	15°21	7° 9	20°19	1°50	28°19	5° 6	15°28	17° 7	23° 0	1° 0	S 15
S 16	1 36 41	22°16'47	4♂52	4° 1	8°24	15°55	7° 2	20°27	1°48	28°18	5° 7	15°25	17° 3	23° 7	0°58	S 16
M17	1 40 37	23°16'16	16°55	5°35	9°39	16°29	6°54	20°34	1°46	28°18	5° 7	15°D24	17° 0	23°14	0°57	M17
T 18	1 44 34	24°15'47	29°10	7° 7	10°53	17° 3	6°46	20°41	1°43	28°17	5° 8	15°25	16°57	23°20	0°56	T 18
W19	1 48 30	25°15'20	11♂39	8°40	12° 8	17°37	6°38	20°49	1°41	28°16	5° 9	15°26	16°54	23°27	0°54	W19
T 20	1 52 27	26°14'56	24°29	10°11	13°23	18°10	6°30	20°56	1°39	28°15	5°10	15°R27	16°51	23°34	0°53	T 20
F 21	1 56 23	27°14'34	7♂43	11°42	14°37	18°44	6°23	21° 3	1°37	28°15	5°11	15°26	16°48	23°40	0°52	F 21
S 22	2 0 20	28°14'14	21°24	13°12	15°52	19°17	6°15	21°10	1°35	28°14	5°13	15°24	16°44	23°47	0°50	S 22
S 23	2 4 17	29°13'56	5♂33	14°42	17° 6	19°50	6° 6	21°18	1°33	28°14	5°14	15°20	16°41	23°54	0°49	S 23
M24	2 8 13	0♂13'41	20°10	16°11	18°21	20°23	5°58	21°25	1°31	28°13	5°15	15°14	16°38	24° 0	0°48	M24
T 25	2 12 10	1°13'28	5♂8	17°39	19°36	20°56	5°50	21°32	1°29	28°12	5°16	15° 7	16°35	24° 7	0°47	T 25
W26	2 16 6	2°13'17	20°21	19° 7	20°50	21°29	5°42	21°40	1°27	28°12	5°17	15° 0	16°32	24°14	0°46	W26
T 27	2 20 3	3°13'08	5♂38	20°34	22° 5	22° 2	5°34	21°47	1°25	28°11	5°18	14°55	16°28	24°21	0°45	T 27
F 28	2 23 59	4°13'01	20°48	22° 1	23°19	22°35	5°26	21°54	1°23	28°11	5°19	14°51	16°25	24°27	0°44	F 28
S 29	2 27 56	5°12'56	5♂42	23°27	24°34	23° 7	5°18	22° 1	1°21	28°11	5°21	14°49	16°22	24°34	0°44	S 29
S 30	2 31 52	6°12'53	20°12	24°52	25°49	23°39	5°10	22° 8	1°19	28°10	5°22	14°D49	16°19	24°41	0°43	S 30
M31	2 35 49	7♂12'51	4♂15	26♂16	27♂3	24♂11	5♂1	22♂16	1♂Y17	28♂10	5♂23	14♂50	16♂16	24♂Y47	0♂42	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	decl	lat	decl	lat
S 1	2s58	21s11	1s42	2s34	1n10	6s51	0n57	19n33	1n 7	13n 1	1s28	5s13	2n15	0n14	0s46	12s30	0s33	19s10	4n11	22s47	22s53	12n20	5s18	6n 3					
S 2	3 21	22 37	0 28	3 20	1 4	7 21	0 55	19 25	1 8	12 59	1 28	5 15	2 15	0 13	0 46	12 30	0 33	19 10	4 11	22 47	22 53	12 22	5 19	6 3					
M 3	3 45	22 36	0n45	4 6	0 59	7 50	0 53	19 17	1 9	12 57	1 28	5 18	2 15	0 12	0 46	12 31	0 33	19 10	4 11	22 47	22 52	12 24	5 20	6 3					
T 4	4 8	21 15	1 54	4 52	0 52	8 20	0 51	19 8	1 10	12 55	1 28	5 21	2 15	0 11	0 46	12 31	0 33	19 10	4 10	22 47	22 52	12 26	5 21	6 2					
W 5	4 31	18 47	2 55	5 37	0 46	8 49	0 49	19 0	1 11	12 53	1 29	5 24	2 15	0 11	0 46	12 31	0 33	19 11	4 10	22 47	22 52	12 28	5 22	6 2					
T 6	4 54	15 27	3 46	6 22	0 40	9 18	0 47	18 51	1 12	12 51	1 29	5 26	2 15	0 10	0 46	12 32	0 33	19 11	4 10	22 47	22 51	12 30	5 23	6 2					
F 7	5 17	11 30	4 25	7 6	0 33	9 47	0 45	18 42	1 13	12 49	1 29	5 29	2 15	0 9	0 46	12 32	0 33	19 11	4 10	22 46	22 51	12 32	5 24	6 1					
S 8	5 40	7 9	4 50	7 50	0 27	10 15	0 43	18 34	1 14	12 46	1 29	5 32	2 15	0 8	0 46	12 33	0 33	19 11	4 10	22 46	22 51	12 35	5 25	6 1					
S 9	6 3	2 35	5 3	8 33	0 20	10 44	0 41	18 25	1 14	12 44	1 29	5 35	2 15	0 7	0 46	12 33	0 33	19 11	4 9	22 45	22 51	12 37	5 26	6 1					
M10	6 26	2n 3	5 1	9 16	0 13	11 12	0 39	18 16	1 15	12 42	1 29	5 38	2 15	0 6	0 46	12 33	0 33	19 12	4 9	22 43	22 50	12 39	5 27	6 0					
T 11	6 48	6 34	4 47	9 58	0 6	11 40	0 36	18 7	1 16	12 39	1 29	5 40	2 15	0 5	0 46	12 34	0 33	19 12	4 9	22 42	22 50	12 41	5 28	6 0					
W12	7 11	10 49	4 20	10 39	0s 1	12 7	0 34	17 58	1 17	12 37	1 29	5 43	2 15	0 4	0 46	12 34	0 33	19 12	4 9	22 41	22 50	12 43	5 29	6 0					
T 13	7 33	14 39	3 41	11 20	0 7	12 35	0 32	17 49	1 18	12 35	1 29	5 46	2 15	0 3	0 46	12 34	0 33	19 12	4 8	22 40	22 49	12 45	5 30	5 59					
F 14	7 56	17 53	2 53	12 0	0 14	13 2	0 30	17 40	1 19	12 32	1 29	5 48	2 15	0 2	0 46	12 34	0 33	19 12	4 8	22 39	22 49	12 47	5 30	5 59					
S 15	8 18	20 24	1 58	12 39	0 21	13 28	0 27	17 30	1 20	12 30	1 29	5 51	2 15	0 2	0 46	12 35	0 33	19 13	4 8	22 39	22 49	12 49	5 31	5 59					
S 16	8 40	22 2	0 56	13 18	0 28	13 55	0 25	17 21	1 21	12 27	1 29	5 54	2 15	0 1	0 46	12 35	0 33	19 13	4 8	22 38	22 48	12 51	5 32	5 58					
M17	9 2	22 40	0s 8	13 56	0 35	14 21	0 23	17 12	1 22	12 25	1 29	5 57	2 15	0s 0	0 46	12 35	0 33	19 13	4 8	22 38	22 48	12 53	5 33	5 58					
T 18	9 24	22 13	1 13	14 33	0 42	14 46	0 20	17 2	1 23	12 22	1 29	5 59	2 15	0 1	0 46	12 36	0 33	19 13	4 7	22 38	22 48	12 55	5 34	5 58					
W19	9 46	20 39	2 17	15 9	0 49	15 12	0 18	16 53	1 24	12 20	1 29	6 2	2 15	0 2	0 46	12 36	0 33	19 13	4 7	22 39	22 48	12 57	5 35	5 57					
T 20	10 8	18 1	3 15	15 45	0 56	15 37	0 15	16 44	1 25	12 17	1 29	6 5	2 15	0 3	0 46	12 36	0 33	19 14	4 7	22 39	22 47	12 59	5 35	5 57					
F 21	10 29	14 24	4 5	16 20	1 2	16 1	0 13	16 34	1 26	12 14	1 29	6 8	2 15	0 4	0 46	12 36	0 33	19 14	4 7	22 39	22 47	13 1	5 36	5 57					
S 22	10 51	9 54	4 42	16 54	1 9	16 25	0 10	16 25	1 27	12 12	1 29	6 10	2 15	0 4	0 46	12 36	0 33	19 14	4 6	22 38	22 47	13 3	5 37	5 56					
S 23	11 12	4 45	5 4	17 27	1 15	16 49	0 8	16 15	1 28	12 9	1 29	6 13	2 15	0 5	0 46	12 37	0 33	19 14	4 6	22 38	22 46	13 5	5 38	5 56					
M24	11 33	0s49	5 8	17 59	1 22	17 12	0 5	16 5	1 29	12 7	1 29	6 16	2 15	0 6	0 46	12 37	0 33	19 14	4 6	22 37	22 46	13 7	5 38	5 55					
T 25	11 54	6 29	4 50	18 30	1 28	17 35	0 3	15 56	1 30	12 4	1 29	6 18	2 15	0 7	0 46	12 37	0 33	19 14	4 6	22 36	22 46	13 9	5 39	5 55					
W26	12 15	11 51	4 12	19 1	1 34	17 58	0 0	15 46	1 31	12 1	1 29	6 21	2 15	0 7	0 46	12 37	0 33	19 15	4 6	22 36	22 45	13 11	5 40	5 55					
T 27	12 35	16 29	3 16	19 30	1 40	18 20	0s 3	15 37	1 32	11 59	1 29	6 24	2 15	0 8	0 46	12 37	0 33	19 15	4 5	22 35	22 45	13 13	5 40	5 54					
F 28	12 55	19 59	2 7	19 59	1 46	18 41	0 5	15 27	1 33	11 56	1 29	6 26	2 15	0 9	0 46	12 37	0 33	19 15	4 5	22 35	22 45	13 15	5 41	5 54					
S 29	13 16	22 4	0 49	20 26	1 52	19 2	0 8	15 17	1 34	11 53	1 29	6 29	2 15	0 10	0 46	12 38	0 33	19 15	4 5	22 34	22 44	13 17	5 42	5 54					
S 30	13 35	22 35	0n29	20 53	1 57	19 23	0 10	15 7	1 35	11 51	1 29	6 31	2 16	0 10	0 46	12 38	0 33	19 15	4 5	22 34	22 44	13 19	5 42	5 53					
M31	13s55	21s38	1n44	21s18	2s 2	19s42	0s13	14n58	1n36	11n48	1s29	6s34	2n16	0s11	0s46	12s38	0s33	19s15	4n 4	22s34	22s44	13n21	5s43	5n53					

ASTRODIENST EPHEMERIS for the year 2011

geocentric

DECEMBER 2011

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 38 2	8♂25'46	22≈15	16°R14	5♂33	9♂20	1°R25	25♂43	0°R41	28≈16	6♂15	14♂18	14♂37	28♀15	0♂51	T 1
F 2	4 41 59	9°26'34	4♀47	15♂ 2	6°47	9°46	1♂21	25°49	0♀40	28°17	6°17	14°R18	14°34	28°21	0°52	F 2
S 3	4 45 55	10°27'24	17° 2	13°43	8° 2	10°11	1°16	25°55	0°40	28°17	6°19	14°18	14°31	28°28	0°53	S 3
S 4	4 49 52	11°28'15	29° 5	12°21	9°16	10°37	1°11	26° 1	0°40	28°18	6°21	14°18	14°28	28°35	0°55	S 4
M 5	4 53 48	12°29'06	10♀59	10°59	10°30	11° 2	1° 7	26° 6	0°39	28°19	6°23	14°18	14°25	28°41	0°56	M 5
T 6	4 57 45	13°29'59	22°49	9°38	11°45	11°26	1° 3	26°12	0°39	28°20	6°25	14°18	14°21	28°48	0°57	T 6
W 7	5 1 42	14°30'52	4♂39	8°21	12°59	11°51	0°59	26°18	0°39	28°21	6°27	14°D18	14°18	28°55	0°59	W 7
T 8	5 5 38	15°31'46	16°33	7°12	14°13	12°15	0°55	26°24	0°39	28°22	6°29	14°18	14°15	29° 2	1° 1	T 8
F 9	5 9 35	16°32'41	28°33	6°12	15°28	12°39	0°52	26°29	0°39	28°23	6°31	14°18	14°12	29° 8	1° 2	F 9
S 10	5 13 31	17°33'37	10II42	5°21	16°42	13° 2	0°48	26°35	0°D39	28°24	6°33	14°R18	14° 9	29°15	1° 4	S 10
S 11	5 17 28	18°34'33	23° 1	4°42	17°56	13°26	0°45	26°40	0°39	28°25	6°35	14°18	14° 5	29°22	1° 6	S 11
M12	5 21 24	19°35'31	5♂32	4°14	19°10	13°48	0°42	26°45	0°39	28°26	6°37	14°18	14° 2	29°28	1° 7	M12
T 13	5 25 21	20°36'30	18°15	3°57	20°24	14°11	0°39	26°51	0°39	28°27	6°39	14°17	13°59	29°35	1° 9	T 13
W14	5 29 17	21°37'29	1♂12	3°D51	21°39	14°33	0°37	26°56	0°39	28°28	6°41	14°16	13°56	29°42	1°11	W14
T 15	5 33 14	22°38'30	14°22	3°56	22°53	14°55	0°34	27° 1	0°39	28°29	6°43	14°15	13°53	29°48	1°13	T 15
F 16	5 37 11	23°39'31	27°46	4° 9	24° 7	15°17	0°32	27° 6	0°39	28°30	6°45	14°14	13°50	29°55	1°15	F 16
S 17	5 41 7	24°40'34	11♂24	4°32	25°21	15°38	0°30	27°11	0°40	28°32	6°47	14°13	13°46	0♂ 2	1°17	S 17
S 18	5 45 4	25°41'37	25°16	5° 2	26°35	15°59	0°28	27°16	0°40	28°33	6°49	14°D13	13°43	0° 8	1°19	S 18
M19	5 49 0	26°42'41	9♂22	5°39	27°49	16°19	0°27	27°21	0°40	28°34	6°52	14°13	13°40	0°15	1°22	M19
T 20	5 52 57	27°43'46	23°40	6°22	29° 3	16°39	0°26	27°26	0°41	28°35	6°54	14°14	13°37	0°22	1°24	T 20
W21	5 56 53	28°44'52	8♂11	7°11	0≈17	16°59	0°24	27°31	0°41	28°37	6°56	14°15	13°34	0°28	1°26	W21
T 22	6 0 50	29°45'59	22°41	8° 5	1°31	17°18	0°23	27°35	0°42	28°38	6°58	14°16	13°31	0°35	1°28	T 22
F 23	6 4 46	0♂47'07	7♂15	9° 3	2°45	17°37	0°23	27°40	0°43	28°40	7° 0	14°R17	13°27	0°42	1°31	F 23
S 24	6 8 43	1°48'15	21°45	10° 4	3°59	17°56	0°22	27°44	0°43	28°41	7° 2	14°17	13°24	0°48	1°33	S 24
S 25	6 12 40	2°49'24	6♂ 4	11° 9	5°13	18°14	0°22	27°49	0°44	28°42	7° 4	14°16	13°21	0°55	1°36	S 25
M26	6 16 36	3°50'33	20° 7	12°17	6°27	18°31	0°D22	27°53	0°45	28°44	7° 7	14°14	13°18	1° 2	1°38	M26
T 27	6 20 33	4°51'43	3≈50	13°28	7°41	18°48	0°22	27°57	0°46	28°45	7° 9	14°11	13°15	1° 9	1°41	T 27
W28	6 24 29	5°52'52	17°10	14°41	8°54	19° 5	0°22	28° 2	0°47	28°47	7°11	14° 8	13°11	1°15	1°43	W28
T 29	6 28 26	6°54'02	0♂ 8	15°56	10° 8	19°21	0°23	28° 6	0°48	28°49	7°13	14° 4	13° 8	1°22	1°46	T 29
F 30	6 32 22	7°55'11	12°44	17°12	11°22	19°37	0°24	28°10	0°48	28°50	7°15	14° 1	13° 5	1°29	1°49	F 30
S 31	6 36 19	8♂56'21	25♂ 3	18♂30	12≈36	19♂52	0♂25	28♂14	0♀50	28≈52	7♂17	13♂59	13♂ 2	1♂35	1♂51	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	21s42	9s27	4n54	22s35	0n 8	24s45	1s26	10n 6	2n11	10n40	1s23	7s47	2n19	0s25	0s45	12s35	0s33
F 2	21 52	4 53	5 13	22 7	0 29	24 43	1 28	9 57	2 12	10 39	1 23	7 49	2 19	0 25	0 45	12 35	0 33
S 3	22 1	0 15	5 17	21 38	0 49	24 41	1 29	9 49	2 14	10 37	1 22	7 51	2 19	0 25	0 45	12 35	0 33
S 4	22 9	4n20	5 7	21 8	1 9	24 37	1 31	9 40	2 15	10 36	1 22	7 53	2 20	0 25	0 45	12 35	0 33
M 5	22 17	8 42	4 44	20 38	1 28	24 34	1 33	9 32	2 16	10 35	1 22	7 55	2 20	0 25	0 44	12 34	0 33
T 6	22 25	12 43	4 9	20 10	1 45	24 29	1 34	9 24	2 18	10 34	1 22	7 57	2 20	0 25	0 44	12 34	0 33
W 7	22 32	16 15	3 23	19 43	2 1	24 23	1 36	9 16	2 19	10 33	1 21	7 58	2 20	0 25	0 44	12 34	0 33
T 8	22 39	19 9	2 28	19 18	2 14	24 17	1 37	9 8	2 20	10 32	1 21	8 0	2 20	0 25	0 44	12 33	0 33
F 9	22 45	21 14	1 26	18 57	2 26	24 10	1 38	9 0	2 22	10 31	1 21	8 2	2 20	0 25	0 44	12 33	0 33
S 10	22 51	22 23	0 20	18 39	2 35	24 3	1 40	8 52	2 23	10 30	1 21	8 4	2 21	0 25	0 44	12 33	0 33
S 11	22 57	22 27	0s48	18 26	2 41	23 54	1 41	8 44	2 24	10 29	1 20	8 6	2 21	0 25	0 44	12 32	0 33
M12	23 2	21 24	1 55	18 16	2 46	23 45	1 42	8 37	2 26	10 28	1 20	8 7	2 21	0 25	0 44	12 32	0 33
T 13	23 6	19 16	2 58	18 11	2 49	23 35	1 43	8 29	2 27	10 27	1 20	8 9	2 21	0 25	0 44	12 32	0 33
W14	23 10	16 7	3 52	18 9	2 49	23 25	1 44	8 22	2 29	10 27	1 19	8 11	2 21	0 25	0 44	12 31	0 33
T 15	23 14	12 8	4 35	18 10	2 49	23 14	1 45	8 15	2 30	10 26	1 19	8 13	2 22	0 25	0 44	12 31	0 33
F 16	23 17	7 29	5 4	18 15	2 47	23 2	1 46	8 8	2 32	10 26	1 19	8 14	2 22	0 25	0 44	12 30	0 33
S 17	23 20	2 24	5 17	18 22	2 44	22 49	1 47	8 1	2 33	10 25	1 18	8 16	2 22	0 25	0 44	12 30	0 33
S 18	23 22	2s53	5 11	18 31	2 39	22 36	1 48	7 54	2 35	10 25	1 18	8 17	2 22	0 24	0 44	12 29	0 33
M19	23 24	8 6	4 47	18 43	2 34	22 22	1 48	7 48	2 36	10 25	1 18	8 19	2 22	0 24	0 44	12 29	0 33
T 20	23 25	12 59	4 5	18 56	2 28	22 7	1 49	7 41	2 38	10 25	1 18	8 20	2 23	0 24	0 44	12 29	0 33
W21	23 26	17 10	3 7	19 10	2 22	21 52	1 50	7 35	2 39	10 24	1 17	8 22	2 23	0 24	0 44	12 28	0 33
T 22	23 26	20 19	1 57	19 26	2 15	21 36	1 50	7 29	2 41	10 24	1 17	8 23	2 23	0 23	0 44	12 28	0 33
F 23	23 26	22 9	0 39	19 42	2 8	21 20	1 50	7 23	2 42	10 24	1 17	8 25	2 23	0 23	0 44	12 27	0 33
S 24	23 25	22 30	0n41	19 58	2 0	21 3	1 51	7 17	2 44	10 25	1 16	8 26	2 23	0 23	0 44	12 27	0 33
S 25	23 24	21 20	1 58	20 15	1 53	20 45	1 51	7 11	2 45	10 25	1 16	8 28	2 24	0 23	0 44	12 26	0 33
M26	23 23	18 53	3 5	20 32	1 45	20 27	1 51	7 6	2 47	10 25	1 16	8 29	2 24	0 22	0 44	12 26	0 33
T 27	23 21	15 24	4 0	20 49	1 37	20 8	1 51	7 1	2 48	10 25	1 15	8 30	2 24	0 22	0 44	12 25	0 33
W28	23 18	11 13	4 41	21 6	1 28	19 49	1 51	6 56	2 50	10 26	1 15	8 31	2 24	0 21	0 44	12 25	0 33
T 29	23 15	6 39	5 6	21 22	1 20	19 29	1 51	6 51	2 52	10 26	1 15	8 33	2 25	0 21	0 44	12 24	0 33
F 30	23 12	1 56	5 15	21 38	1 12	19 8	1 51	6 46	2 53	10 27	1 14	8 34	2 25	0 21	0 43	12 23	0 33
S 31	23s 8	2n45	5n 9	21s53	1n 3	18s47	1s50	6n41	2n55	10n27	1s14	8s35	2n25	0s20	0s43	12s23	0s33

Julian Day Number = 2455896.5, Delta T = 66.58 sec
 Ecliptic obliquity = 23°26'13, Nutation = 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'24, Lahiri = 24°01'25