



Astrodienst Ephemeris Tables for the year 2012

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 2012

geocentric

JANUARY 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 40 15	9°35'30	7°7' 7	19°57'50	13°44'49	20°17' 7	08°26	28°17	0°51'51	28°55'53	7°19	13°D58	12°57'59	1°48'42	1°15'54	S 1
M 2	6 44 12	10°58'39	19° 1	21°11	15° 3	20°21	0°27	28°21	0°52	28°55	7°22	13°57'59	12°56	1°49	1°57	M 2
T 3	6 48 9	11°59'48	08°51	22°33	16°17	20°35	0°29	28°25	0°53	28°57	7°24	14° 0	12°52	1°55	2° 0	T 3
W 4	6 52 5	13° 0'57	12°42	23°56	17°30	20°48	0°30	28°28	0°54	28°58	7°26	14° 2	12°49	2° 2	2° 3	W 4
T 5	6 56 2	14° 2'05	24°37	25°20	18°44	21° 1	0°32	28°32	0°55	29° 0	7°28	14° 4	12°46	2° 9	2° 6	T 5
F 6	6 59 58	15° 3'14	6°11'42	26°44	19°57	21°13	0°35	28°35	0°57	29° 2	7°30	14° 5	12°43	2°15	2° 9	F 6
S 7	7 3 55	16° 4'22	18°59	28°10	21°10	21°24	0°37	28°38	0°58	29° 4	7°32	14°R 5	12°40	2°22	2°12	S 7
S 8	7 7 51	17° 5'30	1°32'32	29°36	22°24	21°35	0°40	28°42	1° 0	29° 5	7°34	14° 4	12°37	2°29	2°15	S 8
M 9	7 11 48	18° 6'38	14°22	1°3 3	23°37	21°46	0°42	28°45	1° 1	29° 7	7°36	14° 0	12°33	2°35	2°18	M 9
T 10	7 15 45	19° 7'45	27°28	2°31	24°50	21°56	0°45	28°48	1° 3	29° 9	7°39	13°56	12°30	2°42	2°21	T 10
W11	7 19 41	20° 8'52	10°12'50	3°59	26° 3	22° 5	0°49	28°51	1° 4	29°11	7°41	13°50	12°27	2°49	2°24	W11
T 12	7 23 38	21°10'00	24°26	5°28	27°16	22°14	0°52	28°53	1° 6	29°13	7°43	13°43	12°24	2°55	2°27	T 12
F 13	7 27 34	22°11'06	8°17'13	6°57	28°29	22°22	0°56	28°56	1° 7	29°15	7°45	13°37	12°21	3° 2	2°31	F 13
S 14	7 31 31	23°12'13	22° 8	8°27	29°42	22°29	0°59	28°59	1° 9	29°17	7°47	13°32	12°17	3° 9	2°34	S 14
S 15	7 35 27	24°13'20	6°11'10	9°58	0°15'55	22°36	1° 3	29° 1	1°11	29°19	7°49	13°29	12°14	3°15	2°37	S 15
M16	7 39 24	25°14'26	20°15	11°29	2° 8	22°42	1° 7	29° 4	1°13	29°20	7°51	13°D27	12°11	3°22	2°41	M16
T 17	7 43 20	26°15'33	4°11'23	13° 0	3°21	22°47	1°12	29° 6	1°14	29°22	7°53	13°27	12° 8	3°29	2°44	T 17
W18	7 47 17	27°16'39	18°32	14°32	4°34	22°52	1°16	29° 8	1°16	29°24	7°55	13°29	12° 5	3°35	2°47	W18
T 19	7 51 14	28°17'45	2°17'40	16° 5	5°46	22°56	1°21	29°10	1°18	29°26	7°57	13°30	12° 2	3°42	2°51	T 19
F 20	7 55 10	29°18'51	16°45	17°38	6°59	23° 0	1°26	29°12	1°20	29°28	7°59	13°R30	11°58	3°49	2°54	F 20
S 21	7 59 7	0°19'57	0°32'46	19°12	8°12	23° 2	1°31	29°14	1°22	29°31	8° 1	13°29	11°55	3°55	2°58	S 21
S 22	8 3 3	1°21'02	14°40	20°46	9°24	23° 4	1°36	29°16	1°24	29°33	8° 3	13°25	11°52	4° 2	3° 1	S 22
M23	8 7 0	2°22'06	28°22	22°21	10°36	23° 5	1°42	29°18	1°26	29°35	8° 5	13°19	11°49	4° 9	3° 5	M23
T 24	8 10 56	3°23'10	11°11'50	23°56	11°49	23°R 6	1°47	29°19	1°29	29°37	8° 7	13°11	11°46	4°15	3° 8	T 24
W25	8 14 53	4°24'13	2°5 2	25°32	13° 1	23° 5	1°53	29°21	1°31	29°39	8° 9	13° 1	11°43	4°22	3°12	W25
T 26	8 18 49	5°25'15	7°11'55	27° 9	14°13	23° 4	1°59	29°22	1°33	29°41	8°11	12°52	11°39	4°29	3°16	T 26
F 27	8 22 46	6°26'16	20°30	28°46	15°25	23° 2	2° 5	29°23	1°35	29°43	8°13	12°42	11°36	4°36	3°19	F 27
S 28	8 26 43	7°27'16	2°17'49	0°11'24	16°37	23° 0	2°12	29°25	1°37	29°45	8°15	12°35	11°33	4°42	3°23	S 28
S 29	8 30 39	8°28'14	14°54	2° 2	17°49	22°56	2°18	29°26	1°40	29°47	8°17	12°29	11°30	4°49	3°27	S 29
M30	8 34 36	9°29'12	26°48	3°41	19° 1	22°52	2°25	29°27	1°42	29°50	8°19	12°26	11°27	4°56	3°30	M30
T 31	8 38 32	10°30'09	8°13'38	5°11'21	20°11'13	22°17'47	2°32	29°27	1°45	29°52	8°21	12°D25	11°23	5° 2	3°11'34	T 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23s 4	7n15	4n50	22s 8	0n55	18s26	1s50	6n37	2n56	10n28	1s14	8s36	2n25	0s20	0s43	12s22	0s33	19s19	3n55	22s28	22s21	15n15	5s40	5n30	5s29
M 2	22 59	11 25	4 18	22 22	0 47	18 4	1 49	6 33	2 58	10 29	1 13	8 37	2 25	0 19	0 43	12 22	0 33	19 19	3 55	22 29	22 21	15 17	5 39	5 29	
T 3	22 54	15 8	3 35	22 35	0 39	17 41	1 49	6 29	3 0	10 30	1 13	8 38	2 26	0 19	0 43	12 21	0 33	19 19	3 55	22 29	22 20	15 18	5 38	5 29	
W 4	22 48	18 15	2 44	22 47	0 31	17 18	1 48	6 26	3 1	10 31	1 13	8 39	2 26	0 18	0 43	12 21	0 33	19 19	3 55	22 29	22 20	15 20	5 37	5 29	
T 5	22 42	20 37	1 45	22 59	0 22	16 55	1 48	6 22	3 3	10 32	1 13	8 40	2 26	0 18	0 43	12 20	0 33	19 19	3 55	22 29	22 20	15 22	5 37	5 29	
F 6	22 35	22 5	0 40	23 9	0 15	16 31	1 47	6 19	3 5	10 33	1 12	8 41	2 26	0 17	0 43	12 19	0 33	19 19	3 55	22 29	22 19	15 24	5 36	5 28	
S 7	22 28	22 32	0s27	23 19	0 7	16 7	1 46	6 16	3 7	10 34	1 12	8 42	2 27	0 16	0 43	12 19	0 33	19 19	3 54	22 29	22 19	15 25	5 35	5 28	
S 8	22 21	21 52	1 34	23 27	0s 1	15 42	1 45	6 13	3 8	10 35	1 12	8 43	2 27	0 16	0 43	12 18	0 33	19 19	3 54	22 29	22 18	15 27	5 34	5 28	
M 9	22 13	20 3	2 38	23 34	0 8	15 17	1 44	6 10	3 10	10 36	1 11	8 44	2 27	0 15	0 43	12 17	0 33	19 19	3 54	22 29	22 18	15 29	5 33	5 27	
T 10	22 4	17 9	3 35	23 41	0 16	14 51	1 43	6 8	3 12	10 38	1 11	8 45	2 27	0 15	0 43	12 17	0 33	19 19	3 54	22 28	22 18	15 30	5 32	5 27	
W11	21 56	13 20	4 21	23 46	0 23	14 25	1 41	6 6	3 13	10 39	1 11	8 46	2 28	0 14	0 43	12 16	0 33	19 19	3 54	22 27	22 17	15 32	5 32	5 27	
T 12	21 46	8 46	4 53	23 49	0 30	13 59	1 40	6 4	3 15	10 40	1 10	8 46	2 28	0 13	0 43	12 15	0 33	19 19	3 54	22 27	22 17	15 34	5 31	5 27	
F 13	21 37	3 43	5 9	23 52	0 37	13 32	1 39	6 3	3 17	10 42	1 10	8 47	2 28	0 13	0 43	12 15	0 33	19 19	3 54	22 26	22 16	15 35	5 30	5 26	
S 14	21 27	1s35	5 7	23 53	0 43	13 5	1 37	6 1	3 19	10 44	1 10	8 48	2 28	0 12	0 43	12 14	0 33	19 19	3 54	22 25	22 16	15 37	5 29	5 26	
S 15	21 16	6 50	4 46	23 54	0 50	12 38	1 35	6 0	3 20	10 45	1 9	8 48	2 29	0 11	0 43	12 13	0 33	19 19	3 54	22 25	22 15	15 39	5 28	5 26	
M16	21 5	11 45	4 9	23 52	0 56	12 10	1 34	6 0	3 22	10 47	1 9	8 49	2 29	0 10	0 43	12 13	0 33	19 19	3 54	22 25	22 15	15 40	5 27	5 26	
T 17	20 54	16 3	3 16	23 50	1 2	11 42	1 32	5 59	3 24	10 49	1 9	8 50	2 29	0 10	0 43	12 12	0 33	19 19	3 54	22 25	22 15	15 42	5 26	5 25	
W18	20 42	19 26	2 11	23 46	1 8	11 14	1 30	5 59	3 26	10 51	1 9	8 50	2 29	0 9	0 43	12 11	0 33	19 19	3 54	22 25	22 14	15 44	5 25	5 25	
T 19	20 30	21 39	0 58	23 41	1 14	10 46	1 28	5 59	3 27	10 52	1 8	8 51	2 30	0 8	0 43	12 11	0 33	19 19	3 54	22 25	22 14	15 45	5 24	5 25	
F 20	20 18	22 29	0n18	23 35	1 19	10 17	1 26	5 59	3 29	10 54	1 8	8 51	2 30	0 7	0 43	12 10	0 33	19 19	3 54	22 25	22 13	15 47	5 23	5 25	
S 21	20 5	21 54	1 32	23 27	1 24	9 48	1 24	6 0	3 31	10 56	1 8	8 51	2 30	0 6	0 43	12 9	0 33	19 18	3 54	22 25	22 13	15 48	5 22	5 25	
S 22	19 51	19 59	2 40	23 18	1 29	9 18	1 22	6 0	3 33	10 59	1 7	8 52	2 31	0 6	0 43	12 9	0 33	19 18	3 54	22 24	22 13	15 50	5 21	5 24	
M23	19 38	16 56	3 38	23 7	1 34	8 49	1 19	6 2	3 35	11 1	1 7	8 52	2 31	0 5	0 43	12 8	0 33	19 18	3 53	22 24	22 12	15 52	5 20	5 24	
T 24	19 24	13 2	4 22	22 55	1 38	8 19	1 17	6 3	3 36	11 3	1 7	8 52	2 31	0 4	0 43	12 7	0 33	19 18	3 53	22 23	22 12	15 53	5 19	5 24	
W25	19 9	8 36	4 51	22 42	1 42	7 49	1 15	6 5	3 38	11 5	1 7	8 53	2 31	0 3	0 43	12 6	0 33	19 18	3 53	22 22	22 11	15 55	5 18	5 24	
T 26	18 55	3 53	5 5	22 27	1 46	7 19	1 12	6 7	3 40	11 8	1 6	8 53	2 32	0 2	0 42	12 6	0 33	19 18	3 53	22 20	22 11	15 57	5 17	5 23	
F 27	18 40	0n53	5 3	22 11	1 49	6 49	1 9	6 9	3 41	11 10	1 6	8 53	2 32	0 1	0 42	12 5	0 33	19 18	3 53	22 19	22 10	15 58	5 15	5 23	
S 28	18 24	5 31	4 47	21 54	1 52	6 18	1 7	6 12	3 43	11 12	1 6	8 53	2 32	0 0	0 42	12 4	0 33	19 18	3 53	22 18	22 10	16 0	5 14	5 23	
S 29	18 9	9 51	4 19	21 34	1 55	5 48	1 4	6 15	3 45	11 15	1 5	8 53	2 32	0n 1	0 42	12 3	0 33	19 18	3 53	22 17	22 10	16 1	5 13	5 23	
M30	17 53	13 45	3 40	21 14	1 58	5 17	1 1	6 18	3 46	11 17	1 5	8 54	2 33	0 2	0 42	12 3	0 33	19 18	3 53	22 17	22 9	16 3	5 12	5 23	
T 31	17s36	17n 4	2n51	20s52	2s 0	4s46	0s58	6n21	3n48	11n20	1s 5	8s54	2n33	0n 3	0s42	12s 2	0s33	19s18	3n53	22s17	22s 9	16n 5	5s11	5n23	

ASTRODIENST EPHEMERIS for the year 2012

geocentric

FEBRUARY 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 42 29	11°31'04"	20°27'	7°22'	21°24'	22°R41	2°38'	29°28'	1°47'	29°54'	8°23'	12°26'	11°20'	5°9'	3°38'	W 1
T 2	8 46 25	12°31'58"	21°22'	8°43'	22°36'	22°M35	2°46'	29°29'	1°49'	29°56'	8°25'	12°26'	11°17'	5°16'	3°42'	T 2
F 3	8 50 22	13°32'51"	14°28'	10°25'	23°47'	22°27'	2°53'	29°29'	1°52'	29°58'	8°26'	12°R27	11°14'	5°22'	3°46'	F 3
S 4	8 54 18	14°33'42"	26°50'	12° 7'	24°58'	22°19'	3° 0'	29°30'	1°55'	0° 0'	8°28'	12°26'	11°11'	5°29'	3°49'	S 4
S 5	8 58 15	15°34'32"	9°31'	13°51'	26° 9'	22°10'	3° 8'	29°30'	1°57'	0° 3'	8°30'	12°22'	11° 8'	5°36'	3°53'	S 5
M 6	9 2 12	16°35'21"	22°33'	15°35'	27°21'	22° 0'	3°16'	29°30'	2° 0'	0° 5'	8°32'	12°16'	11° 4'	5°42'	3°57'	M 6
T 7	9 6 8	17°36'09"	5°59'	17°19'	28°31'	21°50'	3°24'	29°30'	2° 2'	0° 7'	8°34'	12° 8'	11° 1'	5°49'	4° 1'	T 7
W 8	9 10 5	18°36'55"	19°45'	19° 5'	29°42'	21°39'	3°32'	29°R30	2° 5'	0° 9'	8°35'	11°57'	10°58'	5°56'	4° 5'	W 8
T 9	9 14 1	19°37'40"	3°49'	20°51'	0°53'	21°27'	3°40'	29°30'	2° 8'	0°12'	8°37'	11°46'	10°55'	6° 2'	4° 9'	T 9
F 10	9 17 58	20°38'23"	18° 5'	22°38'	2° 4'	21°14'	3°48'	29°30'	2°11'	0°14'	8°39'	11°35'	10°52'	6° 9'	4°13'	F 10
S 11	9 21 54	21°39'06"	2°28'	24°26'	3°14'	21° 0'	3°57'	29°30'	2°13'	0°16'	8°41'	11°26'	10°49'	6°16'	4°16'	S 11
S 12	9 25 51	22°39'47"	16°51'	26°14'	4°24'	20°46'	4° 5'	29°29'	2°16'	0°18'	8°42'	11°19'	10°45'	6°22'	4°20'	S 12
M13	9 29 47	23°40'28"	1°11'	28° 3'	5°34'	20°31'	4°14'	29°29'	2°19'	0°21'	8°44'	11°14'	10°42'	6°29'	4°24'	M13
T 14	9 33 44	24°41'07"	15°23'	29°53'	6°44'	20°15'	4°23'	29°28'	2°22'	0°23'	8°45'	11°12'	10°39'	6°36'	4°28'	T 14
W15	9 37 41	25°41'46"	29°27'	1°43'	7°54'	19°59'	4°32'	29°28'	2°25'	0°25'	8°47'	11°D12	10°36'	6°42'	4°32'	W15
T 16	9 41 37	26°42'23"	13°22'	3°33'	9° 4'	19°42'	4°41'	29°27'	2°28'	0°27'	8°49'	11°R12	10°33'	6°49'	4°36'	T 16
F 17	9 45 34	27°42'59"	27° 7'	5°24'	10°14'	19°24'	4°50'	29°26'	2°31'	0°30'	8°50'	11°11'	10°29'	6°56'	4°40'	F 17
S 18	9 49 30	28°43'34"	10°34'	7°14'	11°23'	19° 6'	5° 0'	29°25'	2°33'	0°32'	8°52'	11° 9'	10°26'	7° 2'	4°44'	S 18
S 19	9 53 27	29°44'07"	24°11'	9° 5'	12°33'	18°47'	5° 9'	29°24'	2°36'	0°34'	8°53'	11° 3'	10°23'	7° 9'	4°48'	S 19
M20	9 57 23	0°44'40"	7°28'	10°56'	13°42'	18°27'	5°19'	29°22'	2°39'	0°37'	8°55'	10°54'	10°20'	7°16'	4°52'	M20
T 21	10 1 20	1°45'10"	20°34'	12°46'	14°51'	18° 7'	5°29'	29°21'	2°43'	0°39'	8°56'	10°42'	10°17'	7°22'	4°56'	T 21
W22	10 5 16	2°45'39"	3°28'	14°35'	16° 0'	17°46'	5°39'	29°20'	2°46'	0°41'	8°58'	10°29'	10°14'	7°29'	5° 0'	W22
T 23	10 9 13	3°46'07"	16° 8'	16°24'	17° 8'	17°25'	5°49'	29°18'	2°49'	0°43'	8°59'	10°15'	10°10'	7°36'	5° 4'	T 23
F 24	10 13 10	4°46'33"	28°34'	18°11'	18°17'	17° 3'	5°59'	29°16'	2°52'	0°46'	9° 0'	10° 1'	10° 7'	7°42'	5° 8'	F 24
S 25	10 17 6	5°46'57"	10°47'	19°56'	19°25'	16°41'	6° 9'	29°15'	2°55'	0°48'	9° 2'	9°49'	10° 4'	7°49'	5°12'	S 25
S 26	10 21 3	6°47'19"	22°49'	21°39'	20°33'	16°19'	6°19'	29°13'	2°58'	0°50'	9° 3'	9°40'	10° 1'	7°56'	5°16'	S 26
M27	10 24 59	7°47'39"	4°42'	23°19'	21°41'	15°56'	6°30'	29°11'	3° 1'	0°53'	9° 5'	9°34'	9°58'	8° 2'	5°20'	M27
T 28	10 28 56	8°47'58"	16°30'	24°56'	22°49'	15°33'	6°40'	29° 9'	3° 4'	0°55'	9° 6'	9°31'	9°54'	8° 9'	5°24'	T 28
W29	10 32 52	9°48'14"	28°18'	26°29'	23°57'	15°10'	6°51'	29°27'	3° 8'	0°57'	9° 7'	9°29'	9°51'	8°16'	5°28'	W29

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	17s20	19n43	1n55	20s29	2s 2	4s15	0s55	6n25	3n50	11n23	1s 5	8s54	2n33	0n 4	0s42	12s 1	0s33	19s18	3n53	22s17	22s 8	16n 6	5s10	5n22	
T 2	17 3	21 31	0 54	20 4	2 3	3 44	0 52	6 29	3 51	11 25	1 4	8 54	2 33	0 5	0 42	12 0	0 33	19 18	3 53	22 17	22 8	16 8	5 8	5 22	
F 3	16 45	22 21	0s11	19 37	2 4	3 13	0 49	6 33	3 53	11 28	1 4	8 54	2 34	0 6	0 42	12 0	0 33	19 17	3 53	22 17	22 7	16 9	5 7	5 22	
S 4	16 28	22 8	1 16	19 9	2 5	2 41	0 45	6 38	3 54	11 31	1 4	8 53	2 34	0 7	0 42	11 59	0 33	19 17	3 53	22 17	22 7	16 11	5 6	5 22	
S 5	16 10	20 47	2 19	18 40	2 5	2 10	0 42	6 43	3 56	11 34	1 4	8 53	2 34	0 8	0 42	11 58	0 33	19 17	3 53	22 17	22 6	16 12	5 5	5 22	
M 6	15 52	18 19	3 17	18 9	2 5	1 39	0 39	6 48	3 57	11 36	1 3	8 53	2 35	0 9	0 42	11 57	0 33	19 17	3 53	22 16	22 6	16 14	5 4	5 22	
T 7	15 33	14 49	4 5	17 37	2 4	1 7	0 35	6 54	3 59	11 39	1 3	8 53	2 35	0 10	0 42	11 56	0 33	19 17	3 53	22 15	22 6	16 16	5 2	5 22	
W 8	15 15	10 27	4 40	17 3	2 3	0 36	0 32	6 59	4 0	11 42	1 3	8 53	2 35	0 11	0 42	11 56	0 33	19 17	3 53	22 13	22 5	16 17	5 1	5 21	
T 9	14 56	5 27	4 59	16 28	2 2	0 5	0 28	7 5	4 1	11 45	1 3	8 52	2 35	0 12	0 42	11 55	0 33	19 17	3 53	22 12	22 5	16 19	5 0	5 21	
F 10	14 37	0 6	5 0	15 51	2 0	0n27	0 24	7 11	4 3	11 48	1 2	8 52	2 36	0 13	0 42	11 54	0 33	19 17	3 53	22 10	22 4	16 20	4 58	5 21	
S 11	14 17	5s18	4 42	15 13	1 57	0 58	0 20	7 18	4 4	11 51	1 2	8 52	2 36	0 14	0 42	11 53	0 33	19 17	3 53	22 9	22 4	16 22	4 57	5 21	
S 12	13 58	10 25	4 7	14 33	1 54	1 30	0 17	7 25	4 5	11 55	1 2	8 51	2 36	0 16	0 42	11 53	0 33	19 17	3 53	22 8	22 3	16 23	4 56	5 21	
M13	13 38	14 56	3 15	13 52	1 50	2 1	0 13	7 31	4 6	11 58	1 2	8 51	2 36	0 17	0 42	11 52	0 33	19 17	3 53	22 7	22 3	16 25	4 55	5 21	
T 14	13 18	18 33	2 12	13 10	1 46	2 33	0 9	7 39	4 7	12 1	1 1	8 50	2 37	0 18	0 42	11 51	0 33	19 16	3 53	22 7	22 2	16 26	4 53	5 21	
W15	12 57	21 2	1 2	12 27	1 41	3 4	0 5	7 46	4 8	12 4	1 1	8 50	2 37	0 19	0 42	11 50	0 33	19 16	3 53	22 7	22 2	16 28	4 52	5 21	
T 16	12 37	22 13	0n11	11 42	1 36	3 35	0 1	7 54	4 9	12 8	1 1	8 49	2 37	0 20	0 42	11 49	0 33	19 16	3 53	22 7	22 2	16 29	4 51	5 20	
F 17	12 16	22 1	1 23	10 56	1 30	4 6	0n 4	8 1	4 10	12 11	1 1	8 49	2 37	0 21	0 42	11 49	0 33	19 16	3 53	22 7	22 1	16 31	4 49	5 20	
S 18	11 55	20 31	2 30	10 8	1 23	4 37	0 8	8 9	4 10	12 14	1 0	8 48	2 38	0 23	0 42	11 48	0 33	19 16	3 53	22 7	22 1	16 32	4 48	5 20	
S 19	11 34	17 53	3 26	9 20	1 16	5 8	0 12	8 17	4 11	12 18	1 0	8 48	2 38	0 24	0 42	11 47	0 33	19 16	3 53	22 6	22 0	16 34	4 47	5 20	
M20	11 12	14 21	4 11	8 31	1 8	5 39	0 16	8 26	4 12	12 21	1 0	8 47	2 38	0 25	0 42	11 46	0 33	19 16	3 53	22 5	22 0	16 35	4 45	5 20	
T 21	10 51	10 10	4 42	7 41	1 0	6 10	0 21	8 34	4 12	12 24	1 0	8 46	2 38	0 26	0 42	11 45	0 33	19 16	3 53	22 3	21 59	16 37	4 44	5 20	
W22	10 29	5 36	4 58	6 50	0 50	6 41	0 25	8 42	4 13	12 28	0 59	8 46	2 39	0 28	0 42	11 45	0 33	19 16	3 53	22 1	21 59	16 38	4 42	5 20	
T 23	10 8	0 53	4 59	5 59	0 40	7 11	0 29	8 51	4 13	12 32	0 59	8 45	2 39	0 29	0 42	11 44	0 33	19 16	3 53	21 59	21 58	16 40	4 41	5 20	
F 24	9 46	3n47	4 45	5 8	0 30	7 41	0 34	9 0	4 13	12 35	0 59	8 44	2 39	0 30	0 42	11 43	0 33	19 16	3 53	21 57	21 58	16 41	4 40	5 20	
S 25	9 23	8 13	4 18	4 16	0 19	8 11	0 38	9 8	4 13	12 39	0 59	8 43	2 39	0 31	0 42	11 42	0 33	19 15	3 53	21 55	21 57	16 43	4 38	5 20	
S 26	9 1	12 17	3 40	3 25	0 7	8 41	0 43	9 17	4 13	12 42	0 59	8 42	2 40	0 33	0 42	11 41	0 33	19 15	3 53	21 54	21 57	16 44	4 37	5 20	
M27	8 39	15 48	2 53	2 34	0n 5	9 11	0 48	9 26	4 13	12 46	0 58	8 41	2 40	0 34	0 42	11 41	0 33	19 15	3 53	21 53	21 56	16 46	4 36	5 20	
T 28	8 16	18 40	1 59	1 44	0 18	9 41	0 52	9 35	4 13	12 50	0 58	8 40	2 40	0 35	0 42	11 40	0 33	19 15	3 53	21 52	21 56	16 47	4 34	5 20	
W29	7s54	20n44	0n59	0s55	0n31	10n10	0n57	9n43	4n13	12n53	0s58	8s39	2n40	0n36	0s42	11s39	0s33	19s15	3n53	21s52	21s56	16n49	4s33	5n20	

Julian Day Number = 2455958.5, Delta T = 66.63 sec
 Ecliptic obliquity = 23°26'13", Nutation = 0°00'18", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'33",

ASTRODIENST EPHEMERIS for the year 2012

geocentric

MARCH 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 36 49	10°48'29"	10°11'11"	27°58'58"	25°4'4"	14°R47	7°8'2	29°R 4	3°V11	0°H59	9°Z 8	9°R29	9°Z48	8°B22	5°H32	T 1
F 2	10 40 45	11°48'41"	22°15'15"	29°21'21"	26°11'11"	14°M23	7°13'13"	29°Z 2	3°14'14"	1°2'12"	9°10'10"	9°Z29	9°45'45"	8°29'29"	5°36'36"	F 2
S 3	10 44 42	12°48'52"	4°36'36"	0°V39	27°18'18"	13°59'59"	7°24'24"	29°0'0"	3°17'17"	1°4'4"	9°11'11"	9°28'28"	9°42'42"	8°36'36"	5°40'40"	S 3
S 4	10 48 38	13°49'00"	17°17'17"	1°51'51"	28°25'25"	13°36'36"	7°35'35"	28°57'57"	3°21'21"	1°6'6"	9°12'12"	9°24'24"	9°39'39"	8°42'42"	5°44'44"	S 4
M 5	10 52 35	14°49'06"	0°Q24	2°57'57"	29°31'31"	13°12'12"	7°46'46"	28°55'55"	3°24'24"	1°8'8"	9°13'13"	9°18'18"	9°35'35"	8°49'49"	5°48'48"	M 5
T 6	10 56 32	15°49'11"	13°57'57"	3°55'55"	0°B37	12°48'48"	7°57'57"	28°52'52"	3°27'27"	1°11'11"	9°14'14"	9°10'10"	9°32'32"	8°56'56"	5°52'52"	T 6
W 7	11 0 28	16°49'13"	27°57'57"	4°45'45"	1°43'43"	12°25'25"	8°9'9"	28°49'49"	3°30'30"	1°13'13"	9°15'15"	8°59'59"	9°29'29"	9°2'2"	5°56'56"	W 7
T 8	11 4 25	17°49'13"	12°M21	5°27'27"	2°49'49"	12°1'1"	8°20'20"	28°46'46"	3°34'34"	1°15'15"	9°16'16"	8°47'47"	9°26'26"	9°9'9"	5°59'59"	T 8
F 9	11 8 21	18°49'11"	27°1'1"	6°1'1"	3°55'55"	11°38'38"	8°32'32"	28°44'44"	3°37'37"	1°17'17"	9°17'17"	8°35'35"	9°23'23"	9°16'16"	6°3'3"	F 9
S 10	11 12 18	19°49'08"	11°Z51	6°26'26"	5°0'0"	11°14'14"	8°43'43"	28°41'41"	3°40'40"	1°19'19"	9°18'18"	8°25'25"	9°20'20"	9°22'22"	6°7'7"	S 10
S 11	11 16 14	20°49'02"	26°41'41"	6°42'42"	6°5'5"	10°52'52"	8°55'55"	28°37'37"	3°44'44"	1°22'22"	9°19'19"	8°17'17"	9°16'16"	9°29'29"	6°11'11"	S 11
M12	11 20 11	21°48'55"	11°M23	6°R49	7°10'10"	10°29'29"	9°7'7"	28°34'34"	3°47'47"	1°24'24"	9°20'20"	8°12'12"	9°13'13"	9°36'36"	6°15'15"	M12
T 13	11 24 7	22°48'46"	25°53'53"	6°47'47"	8°14'14"	10°7'7"	9°19'19"	28°31'31"	3°51'51"	1°26'26"	9°21'21"	8°10'10"	9°10'10"	9°42'42"	6°19'19"	T 13
W14	11 28 4	23°48'36"	10°Z 7	6°37'37"	9°18'18"	9°45'45"	9°31'31"	28°28'28"	3°54'54"	1°28'28"	9°22'22"	8°D10	9°7'7"	9°49'49"	6°23'23"	W14
T 15	11 32 1	24°48'24"	24°3'3"	6°19'19"	10°22'22"	9°23'23"	9°43'43"	28°24'24"	3°57'57"	1°30'30"	9°23'23"	8°R10	9°4'4"	9°56'56"	6°27'27"	T 15
F 16	11 35 57	25°48'11"	7°Z42	5°53'53"	11°25'25"	9°2'2"	9°55'55"	28°21'21"	4°1'1"	1°32'32"	9°24'24"	8°9'9"	9°0'0"	10°2'2"	6°30'30"	F 16
S 17	11 39 54	26°47'55"	21°6'6"	5°21'21"	12°29'29"	8°41'41"	10°7'7"	28°17'17"	4°4'4"	1°34'34"	9°24'24"	8°7'7"	8°57'57"	10°9'9"	6°34'34"	S 17
S 18	11 43 50	27°47'38"	4°Z15	4°42'42"	13°31'31"	8°21'21"	10°20'20"	28°14'14"	4°8'8"	1°36'36"	9°25'25"	8°2'2"	8°54'54"	10°16'16"	6°38'38"	S 18
M19	11 47 47	28°47'19"	17°12'12"	3°57'57"	14°34'34"	8°2'2"	10°32'32"	28°10'10"	4°11'11"	1°39'39"	9°26'26"	7°54'54"	8°51'51"	10°22'22"	6°42'42"	M19
T 20	11 51 43	29°46'59"	29°57'57"	3°9'9"	15°36'36"	7°42'42"	10°44'44"	28°6'6"	4°14'14"	1°41'41"	9°26'26"	7°44'44"	8°48'48"	10°29'29"	6°45'45"	T 20
W21	11 55 40	0°V46'36"	12°H31	2°18'18"	16°38'38"	7°24'24"	10°57'57"	28°3'3"	4°18'18"	1°43'43"	9°27'27"	7°32'32"	8°45'45"	10°36'36"	6°49'49"	W21
T 22	11 59 36	1°46'12"	24°55'55"	1°24'24"	17°40'40"	7°6'6"	11°9'9"	27°59'59"	4°21'21"	1°45'45"	9°28'28"	7°20'20"	8°41'41"	10°42'42"	6°53'53"	T 22
F 23	12 3 33	2°45'45"	7°V 8	0°30'30"	18°41'41"	6°49'49"	11°22'22"	27°55'55"	4°25'25"	1°47'47"	9°28'28"	7°8'8"	8°38'38"	10°49'49"	6°56'56"	F 23
S 24	12 7 30	3°45'16"	19°12'12"	29°H36	19°41'41"	6°33'33"	11°35'35"	27°51'51"	4°28'28"	1°49'49"	9°29'29"	6°57'57"	8°35'35"	10°56'56"	7°0'0"	S 24
S 25	12 11 26	4°44'46"	1°B 8	28°44'44"	20°42'42"	6°17'17"	11°48'48"	27°47'47"	4°32'32"	1°51'51"	9°29'29"	6°49'49"	8°32'32"	11°2'2"	7°4'4"	S 25
M26	12 15 23	5°44'13"	12°58'58"	27°54'54"	21°42'42"	6°2'2"	12°0'0"	27°43'43"	4°35'35"	1°53'53"	9°30'30"	6°44'44"	8°29'29"	11°9'9"	7°7'7"	M26
T 27	12 19 19	6°43'38"	24°44'44"	27°7'7"	22°41'41"	5°47'47"	12°13'13"	27°39'39"	4°38'38"	1°55'55"	9°30'30"	6°41'41"	8°26'26"	11°15'15"	7°11'11"	T 27
W28	12 23 16	7°43'01"	6°H32	26°25'25"	23°40'40"	5°34'34"	12°26'26"	27°35'35"	4°42'42"	1°57'57"	9°31'31"	6°D40	8°22'22"	11°22'22"	7°14'14"	W28
T 29	12 27 12	8°42'22"	18°24'24"	25°47'47"	24°39'39"	5°21'21"	12°39'39"	27°30'30"	4°45'45"	1°59'59"	9°31'31"	6°40'40"	8°19'19"	11°29'29"	7°18'18"	T 29
F 30	12 31 9	9°41'40"	0°Z27	25°14'14"	25°37'37"	5°9'9"	12°52'52"	27°26'26"	4°49'49"	2°0'0"	9°32'32"	6°41'41"	8°16'16"	11°35'35"	7°22'22"	F 30
S 31	12 35 5	10°V40'56"	12°Z44	24°H46	26°B35	4°M57	13°B 6	27°Z22	4°V52	2°H 2	9°Z32	6°R42	8°Z13	11°B42	7°H25	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	7s31	21n55	0s 4	0s 7	0n45	10n39	1n 2	9n52	4n12	12n57	0s58	8s38	2n41	0n38	0s42	11s38
F 2	7 8 22	6 1 7	0n39	0 59	11 8	1 6	10 1	4 12	13 1	0 58	8 37	2 41	0 39	0 42	11 37	0 33
S 3	6 45	21 13	2 9	1 23	1 13	11 37	1 11	10 10	4 11	13 4	0 57	8 36	2 41	0 40	0 42	11 37
S 4	6 22	19 15	3 6	2 4	1 27	12 5	1 16	10 18	4 10	13 8	0 57	8 35	2 41	0 42	0 42	11 36
M 5	5 59	16 14	3 55	2 43	1 41	12 33	1 21	10 27	4 10	13 12	0 57	8 34	2 41	0 43	0 42	11 35
T 6	5 35	12 17	4 33	3 19	1 55	13 1	1 25	10 35	4 9	13 16	0 57	8 33	2 42	0 44	0 42	11 34
W 7	5 12	7 34	4 55	3 52	2 9	13 29	1 30	10 43	4 8	13 20	0 57	8 32	2 42	0 46	0 42	11 34
T 8	4 49	2 18	5 0	4 20	2 22	13 56	1 35	10 51	4 7	13 24	0 56	8 31	2 42	0 47	0 41	11 33
F 9	4 25	3s11	4 46	4 45	2 35	14 23	1 40	10 59	4 6	13 27	0 56	8 29	2 42	0 48	0 41	11 32
S 10	4 2	8 33	4 12	5 6	2 46	14 50	1 45	11 7	4 4	13 31	0 56	8 28	2 42	0 50	0 41	11 31
S 11	3 38	13 24	3 21	5 22	2 57	15 16	1 50	11 14	4 3	13 35	0 56	8 27	2 43	0 51	0 41	11 30
M12	3 15	17 25	2 17	5 34	3 7	15 42	1 55	11 22	4 1	13 39	0 56	8 26	2 43	0 52	0 41	11 30
T 13	2 51	20 16	1 5	5 41	3 15	16 8	1 59	11 29	4 0	13 43	0 55	8 24	2 43	0 54	0 41	11 29
W14	2 27	21 48	0n10	5 44	3 22	16 33	2 4	11 35	3 58	13 47	0 55	8 23	2 43	0 55	0 41	11 28
T 15	2 4	21 55	1 23	5 41	3 28	16 58	2 9	11 42	3 57	13 51	0 55	8 22	2 43	0 56	0 41	11 27
F 16	1 40	20 43	2 30	5 35	3 32	17 23	2 14	11 48	3 55	13 55	0 55	8 20	2 44	0 58	0 41	11 27
S 17	1 16	18 22	3 27	5 23	3 34	17 47	2 19	11 55	3 53	13 59	0 55	8 19	2 44	0 59	0 41	11 26
S 18	0 53	15 7	4 12	5 8	3 34	18 11	2 24	12 0	3 51	14 3	0 55	8 18	2 44	1 0	0 41	11 25
M19	0 29	11 11	4 43	4 49	3 32	18 34	2 28	12 6	3 49	14 7	0 54	8 16	2 44	1 2	0 41	11 24
T 20	0 5	6 48	5 0	4 26	3 28	18 57	2 33	12 11	3 47	14 11	0 54	8 15	2 44	1 3	0 41	11 24
W21	0n19	2 13	5 1	4 0	3 22	19 20	2 38	12 16	3 45	14 15	0 54	8 13	2 44	1 4	0 41	11 23
T 22	0 42	2n24	4 48	3 32	3 15	19 42	2 43	12 21	3 43	14 19	0 54	8 12	2 44	1 6	0 41	11 22
F 23	1 6	6 51	4 23	3 3	3 6	20 4	2 47	12 25	3 41	14 23	0 54	8 10	2 45	1 7	0 41	11 22
S 24	1 30	10 59	3 45	2 31	2 55	20 25	2 52	12 29	3 38	14 27	0 54	8 9	2 45	1 9	0 41	11 21
S 25	1 53	14 39	2 58	2 0	2 43	20 46	2 57	12 33	3 36	14 31	0 53	8 7	2 45	1 10	0 41	11 20
M26	2 17	17 41	2 3	1 28	2 30	21 6	3 1	12 36	3 34	14 36	0 53	8 5	2 45	1 11	0 41	11 20
T 27	2 40	19 59	1 3	0 56	2 16	21 26	3 6	12 39	3 31	14 40	0 53	8 4	2 45	1 13	0 41	11 19
W28	3 4	21 25	0 1	0 26	2 1	21 46	3 10	12 42	3 29	14 44	0 53	8 2	2 45	1 14	0 41	11 18
T 29	3 27	21 53	1s 3	0s 3	1 46	22 5	3 15	12 45	3 26	14 48	0 53	8 1	2 45	1 15	0 41	11 18
F 30	3 50	21 22	2 4	0 31	1 31	22 23	3 19	12 47	3 24	14 52	0 53	7 59	2 45	1 17	0 41	11 17
S 31	4n14	19n49	3s 1	0s56	1n15	22n41	3n24	12n49	3n21	14n56	0s53	7s58	2n45	1n18	0s41	11s16

Julian Day Number = 2455987.5, Delta T = 66.65 sec
 Ecliptic obliquity = 23°26'13", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'37", Lahiri = 24°01'37"

ASTRODIENST EPHEMERIS for the year 2012

geocentric

MAY 2012

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 37 19	11♌ 1°42	0♍33	16♍53	20♌14	5♍18	20♌12	25°R 2	6♍33	2♌49	9°R27	5°R18	6♌34	15♌ 9	8♌56	T 1	
W 2	14 41 15	11°59'55	14°25	18°21	20°42	5°30	20°26	24♌58	6°35	2°51	9♌27	5♌16	6°31	15°15	8°58	W 2	
T 3	14 45 12	12°58'06	28°45	19°52	21° 9	5°42	20°41	24°53	6°38	2°52	9°26	5°13	6°28	15°22	9° 0	T 3	
F 4	14 49 8	13°56'15	13♌29	21°25	21°34	5°54	20°55	24°49	6°41	2°53	9°26	5°10	6°25	15°28	9° 2	F 4	
S 5	14 53 5	14°54'22	28°32	22°59	21°57	6° 7	21° 9	24°45	6°44	2°54	9°25	5° 8	6°22	15°35	9° 4	S 5	
S 6	14 57 1	15°52'27	13♌45	24°36	22°18	6°21	21°23	24°41	6°47	2°55	9°24	5° 6	6°18	15°42	9° 6	S 6	
M 7	15 0 58	16°50'31	28°58	26°15	22°37	6°35	21°37	24°37	6°50	2°56	9°23	5°D 5	6°15	15°48	9° 8	M 7	
T 8	15 4 54	17°48'33	14♌ 1	27°55	22°55	6°49	21°52	24°33	6°53	2°57	9°23	5° 5	6°12	15°55	9°10	T 8	
W 9	15 8 51	18°46'34	28°47	29°37	23°10	7° 4	22° 6	24°29	6°55	2°57	9°22	5° 6	6° 9	16° 2	9°12	W 9	
T 10	15 12 48	19°44'34	13♌10	18♌22	23°24	7°20	22°20	24°25	6°58	2°58	9°21	5° 7	6° 6	16° 8	9°14	T 10	
F 11	15 16 44	20°42'32	27° 7	3° 8	23°35	7°36	22°34	24°21	7° 1	2°59	9°20	5° 8	6° 3	16°15	9°16	F 11	
S 12	15 20 41	21°40'29	10♌38	4°56	23°45	7°52	22°49	24°17	7° 4	3° 0	9°19	5° 9	5°59	16°22	9°18	S 12	
S 13	15 24 37	22°38'24	23°45	6°46	23°52	8° 9	23° 3	24°13	7° 6	3° 1	9°18	5°R 9	5°56	16°28	9°19	S 13	
M14	15 28 34	23°36'18	6♌30	8°39	23°57	8°26	23°17	24° 9	7° 9	3° 1	9°17	5° 9	5°53	16°35	9°21	M14	
T 15	15 32 30	24°34'11	18°56	10°33	23°59	8°44	23°31	24° 6	7°11	3° 2	9°16	5° 8	5°50	16°42	9°23	T 15	
W16	15 36 27	25°32'03	1♍ 8	12°29	23°R59	9° 2	23°45	24° 2	7°14	3° 3	9°15	5° 7	5°47	16°48	9°24	W16	
T 17	15 40 23	26°29'53	13° 9	14°26	23°57	9°21	24° 0	23°59	7°16	3° 3	9°14	5° 6	5°43	16°55	9°26	T 17	
F 18	15 44 20	27°27'42	25° 3	16°26	23°53	9°40	24°14	23°55	7°19	3° 4	9°13	5° 5	5°40	17° 2	9°27	F 18	
S 19	15 48 17	28°25'30	6♌52	18°28	23°46	9°59	24°28	23°52	7°21	3° 4	9°12	5° 4	5°37	17° 8	9°29	S 19	
S 20	15 52 13	29°23'17	18°39	20°31	23°37	10°19	24°42	23°48	7°24	3° 5	9°11	5° 3	5°34	17°15	9°30	S 20	
M21	15 56 10	0♌21°02	0♌27	22°36	23°25	10°39	24°56	23°45	7°26	3° 6	9°10	5°D 3	5°31	17°22	9°31	M21	
T 22	16 0 6	1°18'46	12°18	24°42	23°11	11° 0	25°11	23°42	7°29	3° 6	9° 9	5° 3	5°28	17°28	9°32	T 22	
W23	16 4 3	2°16'29	24°14	26°50	22°54	11°20	25°25	23°39	7°31	3° 6	9° 8	5° 3	5°24	17°35	9°34	W23	
T 24	16 7 59	3°14'10	6♌17	28°59	22°35	11°42	25°39	23°36	7°33	3° 7	9° 7	5° 3	5°21	17°42	9°35	T 24	
F 25	16 11 56	4°11'50	18°31	1♌10	22°14	12° 3	25°53	23°33	7°35	3° 7	9° 6	5° 4	5°18	17°48	9°36	F 25	
S 26	16 15 52	5° 9'29	0♌57	3°21	21°51	12°25	26° 7	23°30	7°38	3° 8	9° 5	5°R 4	5°15	17°55	9°37	S 26	
S 27	16 19 49	6° 7'06	13°38	5°32	21°25	12°48	26°21	23°27	7°40	3° 8	9° 3	5° 4	5°12	18° 1	9°38	S 27	
M28	16 23 46	7° 4'41	26°38	7°44	20°58	13°10	26°35	23°25	7°42	3° 8	9° 2	5° 3	5° 9	18° 8	9°39	M28	
T 29	16 27 42	8° 2'15	9♍59	9°56	20°28	13°33	26°49	23°22	7°44	3° 8	9° 1	5°D 3	5° 5	18°15	9°39	T 29	
W30	16 31 39	8°59'48	23°43	12° 8	19°57	13°57	27° 3	23°19	7°46	3° 9	9° 0	5° 4	5° 2	18°21	9°40	W30	
T 31	16 35 35	9♌57°19	7♌50	14♌19	19♌24	14♌20	27♌18	23♌17	7♌48	3♌ 9	8♌58	5♌ 4	4♌59	18♌28	9♌41	T 31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	15n 8	6n23	5s14	4n 2	2s48	27n46	4n42	11n30	2n 5	17n 0	0s49	7s 7	2n46	1n58	0s42	11s 0	0s34
W 2	15 26	1 21	5 11	4 38	2 46	27 48	4 42	11 24	2 2	17 4	0 49	7 6	2 45	1 59	0 42	11 0	0 34
T 3	15 44	3s55	4 49	5 14	2 44	27 49	4 41	11 17	2 0	17 8	0 49	7 4	2 45	2 0	0 42	10 59	0 34
F 4	16 1	9 7	4 8	5 52	2 41	27 49	4 40	11 10	1 58	17 12	0 49	7 3	2 45	2 1	0 42	10 59	0 34
S 5	16 18	13 53	3 8	6 30	2 38	27 49	4 38	11 4	1 56	17 16	0 49	7 1	2 45	2 2	0 42	10 59	0 34
S 6	16 35	17 48	1 55	7 9	2 34	27 49	4 37	10 57	1 54	17 20	0 48	7 0	2 45	2 3	0 42	10 58	0 34
M 7	16 52	20 28	0 34	7 49	2 29	27 48	4 35	10 50	1 52	17 23	0 48	6 59	2 45	2 4	0 42	10 58	0 35
T 8	17 8	21 40	0n49	8 29	2 24	27 47	4 32	10 42	1 50	17 27	0 48	6 57	2 45	2 5	0 42	10 58	0 35
W 9	17 24	21 18	2 8	9 11	2 18	27 45	4 30	10 35	1 48	17 31	0 48	6 56	2 45	2 7	0 42	10 57	0 35
T 10	17 40	19 32	3 16	9 53	2 12	27 42	4 27	10 27	1 46	17 35	0 48	6 55	2 45	2 8	0 42	10 57	0 35
F 11	17 56	16 39	4 10	10 35	2 6	27 40	4 23	10 19	1 44	17 38	0 48	6 53	2 44	2 9	0 42	10 57	0 35
S 12	18 11	12 56	4 49	11 18	1 59	27 36	4 19	10 11	1 42	17 42	0 48	6 52	2 44	2 10	0 42	10 57	0 35
S 13	18 26	8 42	5 11	12 1	1 51	27 32	4 15	10 3	1 40	17 46	0 48	6 51	2 44	2 11	0 42	10 56	0 35
M14	18 40	4 13	5 17	12 45	1 43	27 27	4 10	9 55	1 38	17 49	0 48	6 49	2 44	2 12	0 42	10 56	0 35
T 15	18 55	0n21	5 8	13 29	1 35	27 22	4 5	9 46	1 36	17 53	0 48	6 48	2 44	2 13	0 42	10 56	0 35
W16	19 9	4 49	4 45	14 13	1 26	27 17	3 59	9 38	1 34	17 56	0 48	6 47	2 44	2 14	0 42	10 56	0 35
T 17	19 22	9 2	4 10	14 57	1 17	27 10	3 53	9 29	1 32	18 0	0 48	6 46	2 44	2 15	0 42	10 55	0 35
F 18	19 35	12 52	3 24	15 40	1 7	27 3	3 46	9 20	1 30	18 3	0 48	6 45	2 43	2 16	0 42	10 55	0 35
S 19	19 48	16 10	2 30	16 24	0 58	26 56	3 39	9 11	1 28	18 7	0 48	6 44	2 43	2 17	0 42	10 55	0 35
S 20	20 1	18 49	1 30	17 7	0 48	26 48	3 31	9 2	1 26	18 10	0 47	6 43	2 43	2 18	0 42	10 55	0 35
M21	20 13	20 40	0 26	17 49	0 37	26 39	3 23	8 53	1 25	18 14	0 47	6 42	2 43	2 18	0 42	10 55	0 35
T 22	20 25	21 36	0s40	18 31	0 27	26 29	3 14	8 43	1 23	18 17	0 47	6 41	2 43	2 19	0 42	10 55	0 35
W23	20 37	21 34	1 45	19 11	0 16	26 19	3 5	8 34	1 21	18 21	0 47	6 40	2 42	2 20	0 42	10 54	0 35
T 24	20 48	20 32	2 45	19 50	0 6	26 8	2 55	8 24	1 19	18 24	0 47	6 39	2 42	2 21	0 42	10 54	0 35
F 25	20 59	18 33	3 39	20 28	0n 5	25 57	2 44	8 14	1 18	18 28	0 47	6 38	2 42	2 22	0 42	10 54	0 35
S 26	21 9	15 39	4 23	21 4	0 15	25 44	2 34	8 4	1 16	18 31	0 47	6 37	2 42	2 23	0 42	10 54	0 35
S 27	21 20	12 0	4 56	21 39	0 26	25 32	2 22	7 54	1 14	18 34	0 47	6 36	2 42	2 24	0 42	10 54	0 35
M28	21 29	7 42	5 14	22 11	0 36	25 18	2 11	7 44	1 13	18 38	0 47	6 35	2 41	2 24	0 42	10 54	0 35
T 29	21 39	2 56	5 17	22 41	0 46	25 4	1 58	7 33	1 11	18 41	0 47	6 35	2 41	2 25	0 42	10 54	0 35
W30	21 48	2s 7	5 1	23 9	0 55	24 49	1 46	7 23	1 9	18 44	0 47	6 34	2 41	2 26	0 42	10 54	0 35
T 31	21n56	7s12	4s27	23n35	1n 4	24n33	1n33	7n12	1n 8	18n47	0s47	6s33	2n41	2n27	0s42	10s54	0s35

Julian Day Number = 2456048.5, Delta T = 66.70 sec

Ecliptic obliquity = 23°26'12, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°54'45, Lahiri = 24°01'46

ASTRODIENST EPHEMERIS for the year 2012

geocentric

JUNE 2012

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 39 32	10 ^{II} 54'49	22 [♈] 19	16 ^{II} 29	18°R50	14 [♏] 44	27 [♏] 32	23°R15	7 [♏] 50	3 [♏] 9	8°R57	5 [♏] 4	4 [♏] 56	18 [♏] 35	9 [♏] 42	F 1
S 2	16 43 28	11°52'17	7 [♏] 7	18°39	18 ^{II} 15	15° 9	27°45	23 [♈] 12	7°52	3° 9	8°56	5° 5	4°53	18°41	9°42	S 2
S 3	16 47 25	12°49'45	22° 7	20°47	17°39	15°33	27°59	23°10	7°54	3° 9	8°54	5° 5	4°49	18°48	9°43	S 3
M 4	16 51 21	13°47'11	7 [♏] 12	22°54	17° 2	15°58	28°13	23° 8	7°56	3° 9	8°53	5°R 5	4°46	18°55	9°43	M 4
T 5	16 55 18	14°44'37	22°14	24°59	16°24	16°23	28°27	23° 6	7°57	3°R 9	8°52	5° 5	4°43	19° 1	9°44	T 5
W 6	16 59 15	15°42'01	7 [♏] 4	27° 2	15°47	16°48	28°41	23° 4	7°59	3° 9	8°50	5° 4	4°40	19° 8	9°44	W 6
T 7	17 3 11	16°39'25	21°34	29° 4	15° 9	17°14	28°55	23° 2	8° 1	3° 9	8°49	5° 3	4°37	19°15	9°44	T 7
F 8	17 7 8	17°36'48	5 [♏] 40	1 [♏] 3	14°31	17°40	29° 9	23° 1	8° 3	3° 9	8°48	5° 2	4°34	19°21	9°45	F 8
S 9	17 11 4	18°34'11	19°19	3° 0	13°54	18° 6	29°23	22°59	8° 4	3° 9	8°46	5° 0	4°30	19°28	9°45	S 9
S 10	17 15 1	19°31'32	2 [♏] 19	4°55	13°18	18°33	29°36	22°57	8° 6	3° 9	8°45	4°59	4°27	19°35	9°45	S 10
M 11	17 18 57	20°28'54	15°31	6°47	12°43	18°59	29°50	22°56	8° 7	3° 8	8°43	4°D58	4°24	19°41	9°45	M 11
T 12	17 22 54	21°26'14	27°46	8°37	12° 9	19°26	0 ^{II} 4	22°55	8° 9	3° 8	8°42	4°58	4°21	19°48	9°R45	T 12
W 13	17 26 50	22°23'35	9°V57	10°25	11°36	19°54	0°17	22°53	8°10	3° 8	8°41	4°59	4°18	19°55	9°45	W 13
T 14	17 30 47	23°20'55	21°55	12°10	11° 5	20°21	0°31	22°52	8°12	3° 8	8°39	5° 0	4°14	20° 1	9°45	T 14
F 15	17 34 44	24°18'14	3 [♏] 46	13°52	10°35	20°49	0°45	22°51	8°13	3° 7	8°38	5° 2	4°11	20° 8	9°45	F 15
S 16	17 38 40	25°15'33	15°33	15°33	10° 8	21°17	0°58	22°50	8°14	3° 7	8°36	5° 3	4° 8	20°15	9°45	S 16
S 17	17 42 37	26°12'52	27°20	17°10	9°42	21°45	1°12	22°49	8°16	3° 7	8°35	5° 4	4° 5	20°21	9°45	S 17
M 18	17 46 33	27°10'10	9 ^{II} 12	18°45	9°18	22°13	1°25	22°48	8°17	3° 6	8°33	5°R 4	4° 2	20°28	9°44	M 18
T 19	17 50 30	28° 7'28	21° 9	20°18	8°57	22°42	1°39	22°48	8°18	3° 6	8°32	5° 3	3°59	20°34	9°44	T 19
W 20	17 54 26	29° 4'45	3 [♏] 16	21°48	8°38	23°10	1°52	22°47	8°19	3° 5	8°30	5° 1	3°55	20°41	9°44	W 20
T 21	17 58 23	0 [♏] 2	2'02	23°15	8°21	23°39	2° 5	22°47	8°20	3° 5	8°29	4°58	3°52	20°48	9°43	T 21
F 22	18 2 19	0°59'19	28° 1	24°40	8° 7	24° 9	2°19	22°46	8°21	3° 4	8°27	4°54	3°49	20°54	9°43	F 22
S 23	18 6 16	1°56'34	10 [♏] 42	26° 2	7°54	24°38	2°32	22°46	8°22	3° 4	8°26	4°50	3°46	21° 1	9°42	S 23
S 24	18 10 13	2°53'49	23°37	27°22	7°45	25° 8	2°45	22°46	8°23	3° 3	8°24	4°46	3°43	21° 8	9°41	S 24
M 25	18 14 9	3°51'04	6 [♏] 46	28°39	7°37	25°38	2°58	22°D46	8°24	3° 3	8°23	4°43	3°40	21°14	9°41	M 25
T 26	18 18 6	4°48'18	20°11	29°53	7°32	26° 8	3°11	22°46	8°25	3° 2	8°21	4°41	3°36	21°21	9°40	T 26
W 27	18 22 2	5°45'31	3 [♏] 53	1 [♏] 4	7°30	26°38	3°24	22°46	8°26	3° 1	8°20	4°D40	3°33	21°28	9°39	W 27
T 28	18 25 59	6°42'44	17°50	2°12	7°D29	27° 9	3°37	22°46	8°27	3° 1	8°18	4°40	3°30	21°34	9°38	T 28
F 29	18 29 55	7°39'57	2 [♏] 4	3°18	7°31	27°39	3°50	22°46	8°27	3° 0	8°17	4°41	3°27	21°41	9°37	F 29
S 30	18 33 52	8°37'09	16 [♏] 32	4 [♏] 20	7 ^{II} 36	28 [♏] 10	4 ^{II} 3	22°47	8°V28	2 [♏] 59	8°V15	4°43	3°24	21°48	9°36	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	22n 5	12s 2	3s36	23n58	1n13	24n17	1n20	7n 2	1n 6	18n51	0s47	6s33	2n41	2n28	0s42	10s54	0s35	19s15	3n53	21s 9	21s 7	18n45	2s46	5n35			
S 2	22 13	16 14	2 29	24 18	1 21	24 1	1 6	6 51	1 5	18 54	0 47	6 32	2 40	2 28	0 42	10 54	0 35	19 15	3 53	21 9	21 6	18 46	2 45	5 35			
S 3	22 20	19 27	1 11	24 35	1 28	23 44	0 52	6 40	1 3	18 57	0 47	6 31	2 40	2 29	0 42	10 54	0 35	19 15	3 53	21 9	21 6	18 47	2 45	5 35			
M 4	22 27	21 19	0n12	24 50	1 35	23 26	0 38	6 29	1 2	19 0	0 47	6 31	2 40	2 30	0 42	10 54	0 35	19 15	3 53	21 9	21 5	18 48	2 44	5 35			
T 5	22 34	21 39	1 34	25 1	1 41	23 9	0 24	6 18	1 0	19 3	0 47	6 30	2 40	2 30	0 42	10 54	0 35	19 16	3 53	21 9	21 5	18 49	2 44	5 36			
W 6	22 40	20 27	2 48	25 11	1 46	22 51	0 10	6 6	0 58	19 6	0 47	6 30	2 39	2 31	0 42	10 54	0 35	19 16	3 53	21 9	21 4	18 50	2 44	5 36			
T 7	22 46	17 55	3 50	25 17	1 51	22 32	0s 4	5 55	0 57	19 9	0 47	6 29	2 39	2 32	0 42	10 54	0 35	19 16	3 53	21 8	21 4	18 51	2 43	5 36			
F 8	22 52	14 23	4 36	25 21	1 55	22 14	0 18	5 43	0 56	19 12	0 47	6 29	2 39	2 32	0 42	10 54	0 35	19 16	3 53	21 8	21 3	18 52	2 43	5 37			
S 9	22 57	10 12	5 5	25 22	1 58	21 56	0 32	5 32	0 54	19 15	0 47	6 29	2 39	2 33	0 43	10 54	0 36	19 16	3 53	21 8	21 2	18 53	2 43	5 37			
S 10	23 1	5 39	5 17	25 21	2 0	21 38	0 46	5 20	0 53	19 18	0 47	6 28	2 39	2 34	0 43	10 54	0 36	19 16	3 53	21 8	21 2	18 54	2 42	5 37			
M 11	23 6	0 59	5 12	25 17	2 2	21 20	1 0	5 8	0 51	19 21	0 46	6 28	2 38	2 34	0 43	10 54	0 36	19 16	3 53	21 7	21 1	18 55	2 42	5 37			
T 12	23 10	3n35	4 52	25 12	2 3	21 2	1 14	4 57	0 50	19 24	0 46	6 28	2 38	2 35	0 43	10 54	0 36	19 17	3 53	21 7	21 1	18 56	2 42	5 38			
W 13	23 13	7 55	4 20	25 4	2 3	20 44	1 27	4 45	0 48	19 27	0 46	6 27	2 38	2 35	0 43	10 54	0 36	19 17	3 53	21 8	21 0	18 57	2 41	5 38			
T 14	23 16	11 53	3 37	24 54	2 2	20 27	1 40	4 33	0 47	19 30	0 46	6 27	2 38	2 36	0 43	10 55	0 36	19 17	3 53	21 8	20 59	18 58	2 41	5 38			
F 15	23 19	15 21	2 45	24 43	2 1	20 11	1 52	4 20	0 46	19 33	0 46	6 27	2 37	2 36	0 43	10 55	0 36	19 17	3 53	21 8	20 59	18 59	2 41	5 38			
S 16	23 21	18 11	1 46	24 30	1 59	19 55	2 4	4 8	0 44	19 36	0 46	6 27	2 37	2 37	0 43	10 55	0 36	19 17	3 53	21 8	20 58	19 0	2 41	5 39			
S 17	23 23	20 15	0 43	24 15	1 56	19 40	2 16	3 56	0 43	19 38	0 46	6 27	2 37	2 37	0 43	10 55	0 36	19 17	3 53	21 8	20 58	19 1	2 41	5 39			
M 18	23 24	21 27	0s23	23 59	1 52	19 25	2 27	3 43	0 42	19 41	0 46	6 27	2 37	2 38	0 43	10 55	0 36	19 18	3 52	21 9	20 57	19 2	2 40	5 39			
T 19	23 25	21 41	1 28	23 41	1 48	19 12	2 38	3 31	0 40	19 44	0 46	6 27	2 36	2 38	0 43	10 55	0 36	19 18	3 52	21 8	20 56	19 3	2 40	5 40			
W 20	23 26	20 55	2 29	23 22	1 43	18 59	2 48	3 18	0 39	19 47	0 46	6 27	2 36	2 39	0 43	10 56	0 36	19 18	3 52	21 8	20 56	19 4	2 40	5 40			
T 21	23 26	19 9	3 25	23 2	1 38	18 46	2 57	3 6	0 38	19 49	0 46	6 27	2 36	2 39	0 43	10 56	0 36	19 18	3 52	21 7	20 55	19 5	2 40	5 40			
F 22	23 26	16 27	4 11	22 41	1 31	18 35	3 7	2 53	0 36	19 52	0 46	6 27	2 35	2 39	0 43	10 56	0 36	19 18	3 52	21 7	20 55	19 6	2 40	5 40			
S 23	23 25	12 57	4 46	22 19	1 25	18 25	3 15	2 40	0 35	19 55	0 46	6 27	2 35	2 40	0 43	10 56	0 36	19 18	3 52	21 6	20 54	19 6	2 40	5 41			
S 24	23 24	8 48	5 8	21 57	1 17	18 15	3 24	2 27	0 34	19 57	0 46	6 27	2 35	2 40	0 43	10 57	0 36	19 19	3 52	21 5	20 53	19 7	2 40	5 41			
M 25	23 23	4 10	5 13	21 34	1 9	18 6	3 31	2 14	0 33	20 0	0 46	6 27	2 35	2 40	0 43	10 57	0 36	19 19	3 52	21 5	20 53	19 8	2 40	5 41			
T 26	23 21	0s45	5 2	21 10	1 1	17 58	3 39	2 1	0 31	20 2	0 46	6 28	2 34	2 41	0 43	10 57	0 36	19 19	3 52	21 4	20 52	19 9	2 40	5 41			
W 27	23 19	5 44	4 34	20 45	0 52	17 51	3 45	1 48	0 30	20 5	0 46	6 28	2 34	2 41	0 43	10 57	0 36	19 19	3 52	21 4	20 52	19 10	2 40	5 42			
T 28	23 16	10 31	3 49	20 21	0 42	17 45	3 51	1 35	0 29	20 7	0 46	6 28	2 34	2 41	0 43	10 58	0 36	19 19	3 52	21 4	20 51	19 11	2 40	5 42			
F 29	23 13	14 50	2 49	19 56	0 32	17 40	3 57	1 21	0 28	20 10	0 46	6 29	2 34	2 42	0 43	10 58	0 36	19 20	3 52	21 4	20 50	19 12	2 40	5 42			
S 30	23n 9	18s20	1s38	19n31	0n21	17n35	4s 3	1n 8	0n27	20n12	0s46	6s29	2n33	2n42	0s43	10s58	0s36	19s20	3n51	21s 5	20s50	19n13	2s41	5n42			

ASTRODIENST EPHEMERIS for the year 2012

geocentric

JULY 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 37 48	9°34'20"	1°11'	5°19'	7°11'42"	28°41'	4°11'16"	22°47'	8°29'	2°58'	8°14'	4°44'	3°20'	21°54'	9°35'	S 1
M 2	18 41 45	10°31'32"	15°57'	6°15'	7°51'	29°12'	4°28'	22°48'	8°29'	2°57'	8°12'	4°43'	3°17'	22°1'	9°34'	M 2
T 3	18 45 42	11°28'43"	0°34'	7°7'	8°1'	29°44'	4°41'	22°49'	8°30'	2°57'	8°11'	4°41'	3°14'	22°8'	9°33'	T 3
W 4	18 49 38	12°25'54"	15°21'	7°56'	8°14'	0°15'	4°54'	22°50'	8°30'	2°56'	8°9'	4°37'	3°11'	22°14'	9°32'	W 4
T 5	18 53 35	13°23'05"	29°45'	8°42'	8°29'	0°47'	5°6'	22°50'	8°31'	2°55'	8°8'	4°32'	3°8'	22°21'	9°31'	T 5
F 6	18 57 31	14°20'16"	13°49'	9°24'	8°46'	1°19'	5°19'	22°51'	8°31'	2°54'	8°6'	4°26'	3°5'	22°27'	9°29'	F 6
S 7	19 1 28	15°17'27"	27°29'	10°2'	9°4'	1°51'	5°31'	22°53'	8°31'	2°53'	8°5'	4°20'	3°1'	22°34'	9°28'	S 7
S 8	19 5 24	16°14'38"	10°45'	10°36'	9°25'	2°23'	5°44'	22°54'	8°32'	2°52'	8°3'	4°15'	2°58'	22°41'	9°27'	S 8
M 9	19 9 21	17°11'50"	23°36'	11°6'	9°47'	2°55'	5°56'	22°55'	8°32'	2°51'	8°2'	4°10'	2°55'	22°47'	9°25'	M 9
T 10	19 13 18	18°9'02"	6°9'5'	11°31'	10°11'	3°28'	6°8'	22°56'	8°32'	2°50'	8°0'	4°8'	2°52'	22°54'	9°24'	T 10
W 11	19 17 14	19°6'14"	18°16'	11°53'	10°37'	4°0'	6°20'	22°58'	8°32'	2°49'	7°59'	4°D 7'	2°49'	23°1'	9°22'	W 11
T 12	19 21 11	20°3'27"	0°15'	12°10'	11°4'	4°33'	6°32'	23°0'	8°32'	2°48'	7°57'	4°7'	2°46'	23°7'	9°21'	T 12
F 13	19 25 7	21°0'41"	12°5'	12°22'	11°33'	5°6'	6°44'	23°1'	8°R32'	2°47'	7°56'	4°9'	2°42'	23°14'	9°19'	F 13
S 14	19 29 4	21°57'55"	23°53'	12°30'	12°3'	5°39'	6°56'	23°3'	8°32'	2°46'	7°54'	4°10'	2°39'	23°21'	9°17'	S 14
S 15	19 33 0	22°55'09"	5°11'42"	12°R33'	12°34'	6°13'	7°8'	23°5'	8°32'	2°44'	7°53'	4°R10'	2°36'	23°27'	9°16'	S 15
M 16	19 36 57	23°52'24"	17°38'	12°31'	13°7'	6°46'	7°20'	23°7'	8°32'	2°43'	7°51'	4°9'	2°33'	23°34'	9°14'	M 16
T 17	19 40 53	24°49'40"	29°44'	12°24'	13°41'	7°20'	7°32'	23°9'	8°32'	2°42'	7°50'	4°6'	2°30'	23°41'	9°12'	T 17
W 18	19 44 50	25°46'56"	12°3'	12°12'	14°17'	7°54'	7°43'	23°11'	8°32'	2°41'	7°48'	4°1'	2°26'	23°47'	9°10'	W 18
T 19	19 48 47	26°44'13"	24°35'	11°56'	14°54'	8°28'	7°55'	23°13'	8°32'	2°40'	7°47'	3°54'	2°23'	23°54'	9°8'	T 19
F 20	19 52 43	27°41'30"	7°12'23"	11°35'	15°31'	9°2'	8°6'	23°16'	8°31'	2°38'	7°46'	3°45'	2°20'	24°1'	9°6'	F 20
S 21	19 56 40	28°38'48"	20°24'	11°10'	16°10'	9°36'	8°17'	23°18'	8°31'	2°37'	7°44'	3°36'	2°17'	24°7'	9°4'	S 21
S 22	20 0 36	29°36'05"	3°11'40"	10°40'	16°51'	10°10'	8°29'	23°21'	8°31'	2°36'	7°43'	3°27'	2°14'	24°14'	9°2'	S 22
M 23	20 4 33	0°13'32"	17°8'	10°7'	17°32'	10°45'	8°40'	23°23'	8°30'	2°35'	7°41'	3°19'	2°11'	24°20'	9°0'	M 23
T 24	20 8 29	1°30'42"	0°47'	9°31'	18°14'	11°19'	8°51'	23°26'	8°30'	2°33'	7°40'	3°13'	2°7'	24°27'	8°58'	T 24
W 25	20 12 26	2°28'01"	14°35'	8°52'	18°57'	11°54'	9°2'	23°29'	8°29'	2°32'	7°39'	3°9'	2°4'	24°34'	8°56'	W 25
T 26	20 16 22	3°25'20"	28°33'	8°10'	19°41'	12°29'	9°13'	23°32'	8°29'	2°30'	7°37'	3°D 8'	2°1'	24°40'	8°54'	T 26
F 27	20 20 19	4°22'40"	12°11'38"	7°28'	20°26'	13°4'	9°24'	23°35'	8°28'	2°29'	7°36'	3°8'	1°58'	24°47'	8°52'	F 27
S 28	20 24 16	5°20'00"	26°51'	6°44'	21°11'	13°39'	9°34'	23°38'	8°27'	2°28'	7°35'	3°R 9'	1°55'	24°54'	8°49'	S 28
S 29	20 28 12	6°17'21"	11°11'41"	6°0'	21°58'	14°14'	9°45'	23°41'	8°27'	2°26'	7°33'	3°9'	1°52'	25°0'	8°47'	S 29
M 30	20 32 9	7°14'42"	25°31'	5°17'	22°45'	14°50'	9°55'	23°44'	8°26'	2°25'	7°32'	3°7'	1°48'	25°7'	8°45'	M 30
T 31	20 36 5	8°12'04"	9°35'2"	4°13'36"	23°11'33"	15°12'25"	10°11'6"	23°48'	8°25'	2°23'	7°31'	3°12'	1°45'	25°14'	8°42'	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	23n 5	20s43	0s19	19n 6	0n10	17n31	4s 7	0n55	0n25	20n14	0s46	6s29	2n33	2n42	0s43	10s58
M 2	23 1	21 41	1n 1	18 40	0s 2	17 28	4 12	0 41	0 24	20 17	0 46	6 30	2 33	2 42	0 43	10 59
T 3	22 56	21 9	2 17	18 16	0 14	17 26	4 16	0 28	0 23	20 19	0 46	6 30	2 33	2 42	0 43	10 59
W 4	22 51	19 11	3 23	17 51	0 27	17 24	4 20	0 14	0 22	20 21	0 46	6 31	2 32	2 43	0 43	10 59
T 5	22 46	16 2	4 15	17 27	0 40	17 23	4 23	0 0	0 21	20 24	0 46	6 32	2 32	2 43	0 43	11 0
F 6	22 40	12 2	4 51	17 3	0 53	17 23	4 26	0s13	0 20	20 26	0 46	6 32	2 32	2 43	0 43	11 0
S 7	22 34	7 31	5 8	16 39	1 7	17 23	4 28	0 27	0 18	20 28	0 46	6 33	2 32	2 43	0 43	11 1
S 8	22 27	2 47	5 8	16 17	1 21	17 24	4 30	0 41	0 17	20 30	0 46	6 34	2 31	2 43	0 43	11 1
M 9	22 20	1n56	4 53	15 55	1 35	17 26	4 32	0 55	0 16	20 32	0 46	6 34	2 31	2 43	0 43	11 1
T 10	22 12	6 27	4 24	15 34	1 50	17 27	4 34	1 9	0 15	20 34	0 46	6 35	2 31	2 43	0 44	11 2
W 11	22 5	10 36	3 43	15 14	2 4	17 30	4 35	1 23	0 14	20 36	0 46	6 36	2 30	2 43	0 44	11 2
T 12	21 56	14 16	2 53	14 55	2 19	17 33	4 36	1 37	0 13	20 38	0 46	6 37	2 30	2 43	0 44	11 3
F 13	21 48	17 19	1 57	14 38	2 33	17 36	4 37	1 51	0 12	20 40	0 46	6 38	2 30	2 43	0 44	11 3
S 14	21 39	19 38	0 55	14 22	2 48	17 39	4 37	2 5	0 11	20 42	0 46	6 38	2 30	2 43	0 44	11 3
S 15	21 29	21 7	0s 8	14 7	3 2	17 43	4 37	2 19	0 10	20 44	0 46	6 39	2 29	2 43	0 44	11 4
M 16	21 20	21 40	1 12	13 54	3 17	17 47	4 37	2 33	0 9	20 46	0 46	6 40	2 29	2 43	0 44	11 4
T 17	21 10	21 13	2 13	13 43	3 30	17 52	4 37	2 47	0 8	20 48	0 46	6 41	2 29	2 43	0 44	11 5
W 18	20 59	19 45	3 9	13 33	3 44	17 56	4 36	3 2	0 7	20 50	0 46	6 42	2 29	2 43	0 44	11 5
T 19	20 48	17 19	3 57	13 26	3 56	18 1	4 35	3 16	0 6	20 52	0 46	6 43	2 28	2 43	0 44	11 6
F 20	20 37	14 0	4 34	13 20	4 8	18 6	4 34	3 30	0 5	20 54	0 46	6 45	2 28	2 42	0 44	11 6
S 21	20 26	9 59	4 58	13 16	4 19	18 11	4 33	3 45	0 4	20 56	0 46	6 46	2 28	2 42	0 44	11 7
S 22	20 14	5 25	5 5	13 15	4 29	18 17	4 32	3 59	0 3	20 57	0 46	6 47	2 28	2 42	0 44	11 7
M 23	20 2	0 31	4 57	13 15	4 37	18 22	4 30	4 13	0 2	20 59	0 46	6 48	2 27	2 42	0 44	11 8
T 24	19 49	4s27	4 31	13 17	4 45	18 28	4 28	4 28	0 1	21 1	0 46	6 49	2 27	2 42	0 44	11 8
W 25	19 36	9 17	3 50	13 22	4 51	18 33	4 26	4 42	0s 0	21 2	0 46	6 51	2 27	2 41	0 44	11 9
T 26	19 23	13 40	2 54	13 28	4 55	18 38	4 24	4 57	0 1	21 4	0 46	6 52	2 27	2 41	0 44	11 9
F 27	19 10	17 20	1 47	13 36	4 57	18 44	4 22	5 11	0 2	21 6	0 46	6 53	2 26	2 41	0 44	11 10
S 28	18 56	20 0	0 34	13 46	4 58	18 49	4 20	5 26	0 3	21 7	0 46	6 55	2 26	2 41	0 44	11 10
S 29	18 42	21 24	0n43	13 58	4 57	18 55	4 17	5 40	0 4	21 9	0 46	6 56	2 26	2 40	0 44	11 11
M 30	18 27	21 25	1 56	14 11	4 55	19 0	4 15	5 55	0 5	21 10	0 46	6 57	2 26	2 40	0 44	11 11
T 31	18n13	20s 2	3n 3	14n25	4s50	19n 5	4s12	6s10	0s 6	21n12	0s46	6s59	2n25	2n40	0s44	11s12

Julian Day Number = 2456109.5, Delta T = 66.75 sec
 Ecliptic obliquity = 23°26'11", Nutation = 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'54", Lahiri = 24°01'54"

ASTRODIENST EPHEMERIS for the year 2012

geocentric

AUGUST 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 40 2	9♂ 9'26	24♂ 8	3°R57	24♂22	16♂ 1	10♂16	23♂51	8°R24	2°R22	7°R30	2°R56	1♂42	25♂20	8°R40	W 1
T 2	20 43 58	10° 6'49	8♂14	3♂21	25°12	16°37	10°26	23°54	8°Y23	2♂20	7♂28	2♂47	1°39	25°27	8♂38	T 2
F 3	20 47 55	11° 4'13	22° 5	2°49	26° 2	17°13	10°36	23°58	8°22	2°19	7°27	2°36	1°36	25°34	8°35	F 3
S 4	20 51 51	12° 1'38	5♂37	2°21	26°53	17°49	10°46	24° 2	8°21	2°17	7°26	2°25	1°32	25°40	8°33	S 4
S 5	20 55 48	12°59'04	18°47	1°59	27°44	18°25	10°56	24° 5	8°20	2°16	7°25	2°15	1°29	25°47	8°30	S 5
M 6	20 59 45	13°56'31	1°Y36	1°42	28°37	19° 1	11° 6	24° 9	8°19	2°14	7°24	2° 6	1°26	25°54	8°28	M 6
T 7	21 3 41	14°53'59	14° 4	1°31	29°30	19°38	11°16	24°13	8°18	2°13	7°23	2° 0	1°23	26° 0	8°25	T 7
W 8	21 7 38	15°51'29	26°15	1°D26	0♂23	20°14	11°25	24°17	8°17	2°11	7°21	1°57	1°20	26° 7	8°22	W 8
T 9	21 11 34	16°49'00	8♂14	1°28	1°17	20°51	11°35	24°21	8°16	2°10	7°20	1°55	1°17	26°13	8°20	T 9
F 10	21 15 31	17°46'32	20° 4	1°36	2°12	21°27	11°44	24°25	8°15	2° 8	7°19	1°D55	1°13	26°20	8°17	F 10
S 11	21 19 27	18°44'06	1♂53	1°52	3° 7	22° 4	11°53	24°30	8°13	2° 7	7°18	1°R55	1°10	26°27	8°14	S 11
S 12	21 23 24	19°41'41	13°44	2°14	4° 2	22°41	12° 2	24°34	8°12	2° 5	7°17	1°54	1° 7	26°33	8°12	S 12
M13	21 27 20	20°39'17	25°44	2°44	4°58	23°18	12°11	24°38	8°11	2° 3	7°16	1°52	1° 4	26°40	8° 9	M13
T 14	21 31 17	21°36'55	7♂56	3°20	5°55	23°56	12°20	24°43	8° 9	2° 2	7°15	1°48	1° 1	26°47	8° 6	T 14
W15	21 35 14	22°34'34	20°24	4° 3	6°52	24°33	12°29	24°47	8° 8	2° 0	7°14	1°41	0°58	26°53	8° 4	W15
T 16	21 39 10	23°32'15	3♂11	4°54	7°49	25°10	12°37	24°52	8° 6	1°59	7°13	1°31	0°54	27° 0	8° 1	T 16
F 17	21 43 7	24°29'57	16°17	5°50	8°47	25°48	12°46	24°57	8° 5	1°57	7°12	1°20	0°51	27° 7	7°58	F 17
S 18	21 47 3	25°27'40	29°41	6°54	9°46	26°25	12°54	25° 1	8° 3	1°55	7°12	1° 7	0°48	27°13	7°55	S 18
S 19	21 51 0	26°25'25	13♂21	8° 3	10°44	27° 3	13° 2	25° 6	8° 2	1°54	7°11	0°55	0°45	27°20	7°52	S 19
M20	21 54 56	27°23'11	27°14	9°19	11°44	27°41	13°10	25°11	8° 0	1°52	7°10	0°45	0°42	27°27	7°49	M20
T 21	21 58 53	28°20'58	11♂15	10°40	12°43	28°19	13°18	25°16	7°58	1°50	7° 9	0°37	0°38	27°33	7°47	T 21
W22	22 2 49	29°18'46	25°21	12° 6	13°43	28°57	13°26	25°21	7°57	1°49	7° 8	0°31	0°35	27°40	7°44	W22
T 23	22 6 46	0♂16'36	9♂19	13°37	14°43	29°35	13°33	25°26	7°55	1°47	7° 7	0°29	0°32	27°46	7°41	T 23
F 24	22 10 42	1°14'26	23°37	15°13	15°44	0♂14	13°41	25°31	7°53	1°45	7° 7	0°28	0°29	27°53	7°38	F 24
S 25	22 14 39	2°12'18	7♂44	16°53	16°45	0°52	13°48	25°36	7°51	1°44	7° 6	0°28	0°26	28° 0	7°35	S 25
S 26	22 18 36	3°10'11	21°49	18°36	17°46	1°31	13°55	25°42	7°49	1°42	7° 5	0°27	0°23	28° 6	7°32	S 26
M27	22 22 32	4° 8'05	5♂51	20°23	18°48	2° 9	14° 2	25°47	7°48	1°41	7° 5	0°25	0°19	28°13	7°29	M27
T 28	22 26 29	5° 6'01	19°49	22°12	19°50	2°48	14° 9	25°52	7°46	1°39	7° 4	0°20	0°16	28°20	7°27	T 28
W29	22 30 25	6° 3'58	3♂39	24° 4	20°52	3°27	14°16	25°58	7°44	1°37	7° 3	0°12	0°13	28°26	7°24	W29
T 30	22 34 22	7° 1'56	17°21	25°57	21°54	4° 6	14°23	26° 3	7°42	1°36	7° 3	0° 1	0°10	28°33	7°21	T 30
F 31	22 38 18	7♂59'56	0♂50	27♂52	22♂57	4♂45	14♂29	26♂ 9	7°Y40	1♂34	7♂ 2	29♂49	0♂ 7	28♂40	7♂18	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	17n58	17s24	3n57	14n40	4s44	19n10	4s 9	6s24	0s 7	21n13	0s46	7s 0	2n25	2n39	0s44	11s12
T 2	17 43	13 46	4 36	14 55	4 36	19 15	4 6	6 39	0 7	21 15	0 46	7 2	2 25	2 39	0 44	11 13
F 3	17 27	9 27	4 58	15 12	4 27	19 20	4 3	6 53	0 8	21 16	0 47	7 3	2 25	2 39	0 44	11 13
S 4	17 11	4 46	5 2	15 28	4 16	19 25	3 59	7 8	0 9	21 17	0 47	7 5	2 24	2 38	0 44	11 14
S 5	16 55	0n 1	4 50	15 45	4 4	19 29	3 56	7 22	0 10	21 19	0 47	7 6	2 24	2 38	0 44	11 14
M 6	16 38	4 40	4 24	16 2	3 51	19 33	3 53	7 37	0 11	21 20	0 47	7 8	2 24	2 37	0 44	11 15
T 7	16 22	9 1	3 46	16 18	3 36	19 37	3 49	7 52	0 12	21 21	0 47	7 10	2 24	2 37	0 44	11 16
W 8	16 5	12 53	2 58	16 34	3 21	19 41	3 45	8 6	0 13	21 23	0 47	7 11	2 24	2 36	0 44	11 16
T 9	15 48	16 11	2 2	16 49	3 6	19 44	3 42	8 21	0 14	21 24	0 47	7 13	2 23	2 36	0 44	11 17
F 10	15 30	18 46	1 3	17 3	2 49	19 47	3 38	8 35	0 14	21 25	0 47	7 15	2 23	2 35	0 44	11 17
S 11	15 12	20 32	0 0	17 16	2 33	19 50	3 34	8 50	0 15	21 26	0 47	7 16	2 23	2 35	0 44	11 18
S 12	14 55	21 25	1s 2	17 27	2 16	19 53	3 30	9 4	0 16	21 27	0 47	7 18	2 23	2 34	0 44	11 19
M13	14 36	21 19	2 3	17 37	1 59	19 55	3 26	9 19	0 17	21 29	0 47	7 20	2 22	2 34	0 45	11 19
T 14	14 18	20 14	2 59	17 45	1 42	19 57	3 22	9 33	0 18	21 30	0 47	7 22	2 22	2 33	0 45	11 20
W15	13 59	18 9	3 47	17 52	1 25	19 58	3 18	9 48	0 19	21 31	0 47	7 24	2 22	2 32	0 45	11 20
T 16	13 40	15 8	4 45	17 56	1 9	19 59	3 13	10 2	0 19	21 32	0 47	7 26	2 22	2 32	0 45	11 21
F 17	13 21	11 20	4 51	17 58	0 52	20 0	3 9	10 17	0 20	21 33	0 47	7 27	2 22	2 31	0 45	11 21
S 18	13 2	6 53	5 1	17 57	0 37	20 0	3 5	10 31	0 21	21 34	0 47	7 29	2 21	2 31	0 45	11 22
S 19	12 42	2 1	4 54	17 54	0 22	20 0	3 0	10 46	0 22	21 35	0 47	7 31	2 21	2 30	0 45	11 23
M20	12 23	3s 1	4 30	17 49	0 7	20 0	2 56	11 0	0 22	21 36	0 47	7 33	2 21	2 29	0 45	11 23
T 21	12 3	7 58	3 49	17 40	0n 7	19 59	2 51	11 14	0 23	21 37	0 47	7 35	2 21	2 29	0 45	11 24
W22	11 43	12 30	2 54	17 29	0 20	19 58	2 47	11 29	0 24	21 38	0 47	7 37	2 21	2 28	0 45	11 24
T 23	11 22	16 22	1 49	17 15	0 32	19 56	2 42	11 43	0 25	21 39	0 47	7 39	2 20	2 27	0 45	11 25
F 24	11 2	19 16	0 36	16 58	0 43	19 54	2 38	11 57	0 26	21 39	0 47	7 41	2 20	2 27	0 45	11 26
S 25	10 41	20 58	0n38	16 38	0 54	19 51	2 33	12 11	0 26	21 40	0 47	7 43	2 20	2 26	0 45	11 26
S 26	10 20	21 21	1 50	16 15	1 3	19 48	2 29	12 25	0 27	21 41	0 47	7 45	2 20	2 25	0 45	11 27
M27	10 0	20 23	2 55	15 50	1 12	19 44	2 24	12 39	0 28	21 42	0 47	7 48	2 20	2 24	0 45	11 27
T 28	9 38	18 11	3 50	15 22	1 20	19 40	2 19	12 53	0 28	21 43	0 48	7 50	2 20	2 24	0 45	11 28
W29	9 17	14 58	4 30	14 51	1 26	19 36	2 15	13 7	0 29	21 43	0 48	7 52	2 19	2 23	0 45	11 29
T 30	8 56	10 58	4 54	14 18	1 32	19 31	2 10	13 21	0 30	21 44	0 48	7 54	2 19	2 22	0 45	11 29
F 31	8n34	6s29	5n 1	13n43	1n37	19n25	2s 5	13s35	0s31	21n45	0s48	7s56	2n19	2n21	0s45	11s30

Julian Day Number = 2456140.5, Delta T = 66.77 sec
 Ecliptic obliquity = 23°26'11, Nutation = 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°54'58, Lahiri = 24°01'58

ASTRODIENST EPHEMERIS for the year 2012

geocentric

SEPTEMBER 2012

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 42 15	8 ^h 57 ^m 57 ^s	14 ^h 4 ^m	29 ^h 48 ^m	24 ^h 50 ^m	5 ^h 11 ^m 24 ^s	14 ^h 11 ^m 35 ^s	26 ^h 15 ^m	7 ^h 38 ^m	1 ^h 32 ^m	7 ^h 2 ^m	29 ^h 37 ^m	0 ^h 4 ^m	28 ^h 46 ^m	7 ^h 15 ^m	S 1
S 2	22 46 11	9 ^h 56 ^m 00 ^s	27 ^h 1 ^m	1 ^h 44 ^m	25 ^h 4 ^m	6 ^h 3 ^m	14 ^h 41 ^m	26 ^h 20 ^m	7 ^h 36 ^m	1 ^h 31 ^m	7 ^h 3 ^m	29 ^h 11 ^m 25 ^s	0 ^h 0 ^m	28 ^h 53 ^m	7 ^h 12 ^m	S 2
M 3	22 50 8	10 ^h 54 ^m 04 ^s	9 ^h 40 ^m	3 ^h 41 ^m	26 ^h 7 ^m	6 ^h 42 ^m	14 ^h 47 ^m	26 ^h 26 ^m	7 ^h 34 ^m	1 ^h 29 ^m	7 ^h 1 ^m	29 ^h 15 ^m	29 ^h 11 ^m 57 ^s	29 ^h 0 ^m	7 ^h 9 ^m	M 3
T 4	22 54 5	11 ^h 52 ^m 11 ^s	22 ^h 3 ^m	5 ^h 38 ^m	27 ^h 11 ^m	7 ^h 22 ^m	14 ^h 53 ^m	26 ^h 32 ^m	7 ^h 32 ^m	1 ^h 28 ^m	7 ^h 0 ^m	29 ^h 8 ^m	29 ^h 54 ^m	29 ^h 6 ^m	7 ^h 6 ^m	T 4
W 5	22 58 1	12 ^h 50 ^m 19 ^s	4 ^h 11 ^m	7 ^h 35 ^m	28 ^h 16 ^m	8 ^h 1 ^m	14 ^h 59 ^m	26 ^h 38 ^m	7 ^h 29 ^m	1 ^h 26 ^m	7 ^h 0 ^m	29 ^h 3 ^m	29 ^h 51 ^m	29 ^h 13 ^m	7 ^h 3 ^m	W 5
T 6	23 1 58	13 ^h 48 ^m 29 ^s	16 ^h 8 ^m	9 ^h 32 ^m	29 ^h 20 ^m	8 ^h 41 ^m	15 ^h 4 ^m	26 ^h 44 ^m	7 ^h 27 ^m	1 ^h 24 ^m	7 ^h 0 ^m	29 ^h 0 ^m	29 ^h 48 ^m	29 ^h 19 ^m	7 ^h 1 ^m	T 6
F 7	23 5 54	14 ^h 46 ^m 42 ^s	27 ^h 57 ^m	11 ^h 28 ^m	0 ^h 25 ^m	9 ^h 21 ^m	15 ^h 9 ^m	26 ^h 50 ^m	7 ^h 25 ^m	1 ^h 23 ^m	6 ^h 59 ^m	29 ^h 0 ^m	29 ^h 44 ^m	29 ^h 26 ^m	6 ^h 58 ^m	F 7
S 8	23 9 51	15 ^h 44 ^m 56 ^s	9 ^h 11 ^m 45 ^s	13 ^h 24 ^m	1 ^h 30 ^m	10 ^h 0 ^m	15 ^h 14 ^m	26 ^h 56 ^m	7 ^h 23 ^m	1 ^h 21 ^m	6 ^h 59 ^m	29 ^h 0 ^m	29 ^h 41 ^m	29 ^h 33 ^m	6 ^h 55 ^m	S 8
S 9	23 13 47	16 ^h 43 ^m 13 ^s	21 ^h 36 ^m	15 ^h 18 ^m	2 ^h 35 ^m	10 ^h 40 ^m	15 ^h 19 ^m	27 ^h 2 ^m	7 ^h 21 ^m	1 ^h 20 ^m	6 ^h 59 ^m	29 ^h 0 ^m	29 ^h 38 ^m	29 ^h 39 ^m	6 ^h 52 ^m	S 9
M10	23 17 44	17 ^h 41 ^m 31 ^s	3 ^h 53 ^m 17 ^s	17 ^h 12 ^m	3 ^h 41 ^m	11 ^h 20 ^m	15 ^h 24 ^m	27 ^h 8 ^m	7 ^h 19 ^m	1 ^h 18 ^m	6 ^h 58 ^m	28 ^h 59 ^m	29 ^h 35 ^m	29 ^h 46 ^m	6 ^h 49 ^m	M10
T 11	23 21 40	18 ^h 39 ^m 51 ^s	15 ^h 51 ^m	19 ^h 5 ^m	4 ^h 46 ^m	12 ^h 0 ^m	15 ^h 29 ^m	27 ^h 14 ^m	7 ^h 16 ^m	1 ^h 16 ^m	6 ^h 58 ^m	28 ^h 55 ^m	29 ^h 32 ^m	29 ^h 53 ^m	6 ^h 46 ^m	T 11
W12	23 25 37	19 ^h 38 ^m 14 ^s	28 ^h 24 ^m	20 ^h 58 ^m	5 ^h 52 ^m	12 ^h 40 ^m	15 ^h 33 ^m	27 ^h 20 ^m	7 ^h 14 ^m	1 ^h 15 ^m	6 ^h 58 ^m	28 ^h 50 ^m	29 ^h 29 ^m	29 ^h 59 ^m	6 ^h 43 ^m	W12
T 13	23 29 34	20 ^h 36 ^m 39 ^s	11 ^h 19 ^m	22 ^h 49 ^m	6 ^h 58 ^m	13 ^h 21 ^m	15 ^h 37 ^m	27 ^h 27 ^m	7 ^h 12 ^m	1 ^h 13 ^m	6 ^h 58 ^m	28 ^h 42 ^m	29 ^h 25 ^m	0 ^h 11 ^m 6 ^s	6 ^h 41 ^m	T 13
F 14	23 33 30	21 ^h 35 ^m 05 ^s	24 ^h 37 ^m	24 ^h 39 ^m	8 ^h 5 ^m	14 ^h 1 ^m	15 ^h 41 ^m	27 ^h 33 ^m	7 ^h 10 ^m	1 ^h 12 ^m	6 ^h 58 ^m	28 ^h 32 ^m	29 ^h 22 ^m	0 ^h 13 ^m	6 ^h 38 ^m	F 14
S 15	23 37 27	22 ^h 33 ^m 34 ^s	8 ^h 19 ^m	26 ^h 28 ^m	9 ^h 11 ^m	14 ^h 42 ^m	15 ^h 45 ^m	27 ^h 39 ^m	7 ^h 7 ^m	1 ^h 10 ^m	6 ^h 57 ^m	28 ^h 21 ^m	29 ^h 19 ^m	0 ^h 19 ^m	6 ^h 35 ^m	S 15
S 16	23 41 23	23 ^h 32 ^m 04 ^s	22 ^h 20 ^m	28 ^h 16 ^m	10 ^h 18 ^m	15 ^h 22 ^m	15 ^h 49 ^m	27 ^h 46 ^m	7 ^h 5 ^m	1 ^h 9 ^m	6 ^h 57 ^m	28 ^h 11 ^m	29 ^h 16 ^m	0 ^h 26 ^m	6 ^h 32 ^m	S 16
M17	23 45 20	24 ^h 30 ^m 36 ^s	6 ^h 22 ^m 37 ^s	0 ^h 23 ^m	11 ^h 25 ^m	16 ^h 3 ^m	15 ^h 53 ^m	27 ^h 52 ^m	7 ^h 3 ^m	1 ^h 7 ^m	6 ^h 57 ^m	28 ^h 2 ^m	29 ^h 13 ^m	0 ^h 33 ^m	6 ^h 30 ^m	M17
T 18	23 49 16	25 ^h 29 ^m 11 ^s	21 ^h 4 ^m	1 ^h 49 ^m	12 ^h 32 ^m	16 ^h 44 ^m	15 ^h 56 ^m	27 ^h 59 ^m	7 ^h 0 ^m	1 ^h 6 ^m	6 ^h 57 ^m	27 ^h 55 ^m	29 ^h 9 ^m	0 ^h 39 ^m	6 ^h 27 ^m	T 18
W19	23 53 13	26 ^h 27 ^m 47 ^s	5 ^h 11 ^m 35 ^s	3 ^h 34 ^m	13 ^h 39 ^m	17 ^h 24 ^m	15 ^h 59 ^m	28 ^h 5 ^m	6 ^h 58 ^m	1 ^h 4 ^m	6 ^h 57 ^m	27 ^h 50 ^m	29 ^h 6 ^m	0 ^h 46 ^m	6 ^h 24 ^m	W19
T 20	23 57 9	27 ^h 26 ^m 25 ^s	20 ^h 4 ^m	5 ^h 17 ^m	14 ^h 47 ^m	18 ^h 5 ^m	16 ^h 2 ^m	28 ^h 12 ^m	6 ^h 55 ^m	1 ^h 3 ^m	6 ^h 57 ^m	27 ^h 48 ^m	29 ^h 3 ^m	0 ^h 52 ^m	6 ^h 22 ^m	T 20
F 21	0 1 6	28 ^h 25 ^m 04 ^s	4 ^h 26 ^m	7 ^h 0 ^m	15 ^h 55 ^m	18 ^h 46 ^m	16 ^h 5 ^m	28 ^h 18 ^m	6 ^h 53 ^m	1 ^h 2 ^m	6 ^h 57 ^m	27 ^h 48 ^m	29 ^h 0 ^m	0 ^h 59 ^m	6 ^h 19 ^m	F 21
S 22	0 5 3	29 ^h 23 ^m 45 ^s	18 ^h 40 ^m	8 ^h 42 ^m	17 ^h 2 ^m	19 ^h 27 ^m	16 ^h 7 ^m	28 ^h 25 ^m	6 ^h 51 ^m	1 ^h 0 ^m	6 ^h 57 ^m	27 ^h 49 ^m	28 ^h 57 ^m	1 ^h 6 ^m	6 ^h 16 ^m	S 22
S 23	0 8 59	0 ^h 22 ^m 28 ^s	2 ^h 34 ^m	10 ^h 23 ^m	18 ^h 10 ^m	20 ^h 9 ^m	16 ^h 10 ^m	28 ^h 32 ^m	6 ^h 48 ^m	0 ^h 59 ^m	6 ^h 58 ^m	27 ^h 49 ^m	28 ^h 54 ^m	1 ^h 12 ^m	6 ^h 14 ^m	S 23
M24	0 12 56	1 ^h 21 ^m 13 ^s	16 ^h 35 ^m	12 ^h 3 ^m	19 ^h 19 ^m	20 ^h 50 ^m	16 ^h 12 ^m	28 ^h 38 ^m	6 ^h 46 ^m	0 ^h 57 ^m	6 ^h 58 ^m	27 ^h 48 ^m	28 ^h 50 ^m	1 ^h 19 ^m	6 ^h 11 ^m	M24
T25	0 16 52	2 ^h 19 ^m 59 ^s	0 ^h 22 ^m 16 ^s	13 ^h 41 ^m	20 ^h 27 ^m	21 ^h 31 ^m	16 ^h 14 ^m	28 ^h 45 ^m	6 ^h 44 ^m	0 ^h 56 ^m	6 ^h 58 ^m	27 ^h 45 ^m	28 ^h 47 ^m	1 ^h 26 ^m	6 ^h 9 ^m	T25
W26	0 20 49	3 ^h 18 ^m 47 ^s	13 ^h 45 ^m	15 ^h 19 ^m	21 ^h 36 ^m	22 ^h 13 ^m	16 ^h 16 ^m	28 ^h 52 ^m	6 ^h 41 ^m	0 ^h 55 ^m	6 ^h 58 ^m	27 ^h 39 ^m	28 ^h 44 ^m	1 ^h 32 ^m	6 ^h 6 ^m	W26
T 27	0 24 45	4 ^h 17 ^m 36 ^s	27 ^h 3 ^m	16 ^h 56 ^m	22 ^h 44 ^m	22 ^h 54 ^m	16 ^h 17 ^m	28 ^h 59 ^m	6 ^h 39 ^m	0 ^h 53 ^m	6 ^h 58 ^m	27 ^h 32 ^m	28 ^h 41 ^m	1 ^h 39 ^m	6 ^h 4 ^m	T 27
F 28	0 28 42	5 ^h 16 ^m 28 ^s	10 ^h 11 ^m 8 ^s	18 ^h 32 ^m	23 ^h 53 ^m	23 ^h 36 ^m	16 ^h 19 ^m	29 ^h 5 ^m	6 ^h 36 ^m	0 ^h 52 ^m	6 ^h 59 ^m	27 ^h 23 ^m	28 ^h 38 ^m	1 ^h 46 ^m	6 ^h 2 ^m	F 28
S 29	0 32 38	6 ^h 15 ^m 21 ^s	23 ^h 0 ^m	20 ^h 8 ^m	25 ^h 2 ^m	24 ^h 18 ^m	16 ^h 20 ^m	29 ^h 12 ^m	6 ^h 34 ^m	0 ^h 51 ^m	6 ^h 59 ^m	27 ^h 14 ^m	28 ^h 35 ^m	1 ^h 52 ^m	5 ^h 59 ^m	S 29
S 30	0 36 35	7 ^h 14 ^m 16 ^s	5 ^h 39 ^m	21 ^h 42 ^m	26 ^h 11 ^m	24 ^h 11 ^m 59 ^s	16 ^h 11 ^m 21 ^s	29 ^h 19 ^m	6 ^h 31 ^m	0 ^h 50 ^m	6 ^h 59 ^m	27 ^h 11 ^m	28 ^h 31 ^m	1 ^h 59 ^m	5 ^h 57 ^m	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n12	1s47	4n51	13n 6	1n40	19n20	2s 1	13s49	0s31	21n45	0s48	7s58	2n19	2n20	0s45	11s30	0s37	19s34	3n41	20s 4	20s10	20n 0	3s26	5n49			
S 2	7 51	2n54	4 27	12 28	1 43	19 13	1 56	14 2	0 32	21 46	0 48	8 1	2 19	2 20	0 45	11 31	0 37	19 34	3 41	20 1	20 9	20 0	3 27	5 49			
M 3	7 29	7 21	3 50	11 47	1 45	19 6	1 51	14 16	0 33	21 47	0 48	8 3	2 18	2 19	0 45	11 32	0 37	19 35	3 41	19 59	20 8	20 1	3 28	5 49			
T 4	7 7	11 25	3 3	11 6	1 47	18 59	1 46	14 30	0 33	21 47	0 48	8 5	2 18	2 18	0 45	11 32	0 37	19 35	3 41	19 58	20 8	20 2	3 30	5 49			
W 5	6 44	14 55	2 8	10 23	1 47	18 51	1 42	14 43	0 34	21 48	0 48	8 7	2 18	2 17	0 45	11 33	0 37	19 35	3 40	19 57	20 7	20 2	3 31	5 49			
T 6	6 22	17 45	1 8	9 39	1 47	18 42	1 37	14 56	0 35	21 48	0 48	8 10	2 18	2 16	0 45	11 33	0 37	19 35	3 40	19 56	20 6	20 3	3 32	5 49			
F 7	6 0	19 48	0 6	8 54	1 46	18 33	1 32	15 10	0 35	21 49	0 48	8 12	2 18	2 15	0 45	11 34	0 37	19 35	3 40	19 56	20 6	20 3	3 33	5 49			
S 8	5 37	20 58	0s57	8 8	1 45	18 24	1 28	15 23	0 36	21 49	0 48	8 14	2 18	2 14	0 45	11 34	0 37	19 36	3 40	19 56	20 5	20 4	3 34	5 49			
S 9	5 15	21 13	1 57	7 22	1 43	18 14	1 23	15 36	0 37	21 50	0 48	8 16	2 18	2 14	0 45	11 35	0 37	19 36	3 40	19 56	20 4	20 4	3 35	5 49			
M10	4 52	20 30	2 53	6 35	1 40	18 4	1 18	15 49	0 37	21 50	0 48	8 19	2 17	2 13	0 45	11 36	0 37	19 36	3 39	19 56	20 4	20 5	3 36	5 49			
T 11	4 29	18 49	3 42	5 48	1 37	17 53	1 14	16 2	0 38	21 51	0 48	8 21	2 17	2 12	0 45	11 36	0 37	19 36	3 39	19 55	20 3	20 5	3 38	5 48			
W12	4 6	16 12	4 22	5 1	1 33	17 41	1 9	16 15	0 39	21 51	0 48	8 23	2 17	2 11	0 45	11 37	0 37	19 37	3 39	19 54	20 2	20 6	3 39	5 48			
T13	3 43	12 44	4 50	4 13	1 29	17 29	1 4	16 28	0 39	21 52	0 48	8 26	2 17	2 10	0 45	11 37	0 37	19 37	3 39	19 52	20 1	20 7	3 40	5 48			
F 14	3 20	8 33	5 3	3 26	1 25	17 17	1 0	16 41	0 40	21 52	0 48	8 28	2 17	2 9	0 45	11 38	0 37	19 37	3 38	19 50	20 1	20 7	3 41	5 48			
S 15	2 57	3 50	4 59	2 38	1 20	17 4	0 55	16 53	0 40	21 52	0 48	8 31	2 17	2 8	0 45	11 38	0 37	19 37	3 38	19 48	20 0	20 8	3 42	5 48			
S 16	2 34	1s12	4 37	1 50	1 15	16 51	0 51	17 6	0 41	21 53	0 48	8 33	2 17	2 7	0 45	11 39	0 37	19 37	3 38	19 45	19 59	20 8	3 43	5 48			
M17	2 11	6 16	3 58	1 3	1 10	16 37	0 46	17 18	0 42	21 53	0 49	8 35	2 16	2 6	0 45	11 39	0 37	19 38	3 38	19 43	19 59	20 9	3 44	5 48			
T 18	1 48	11 3	3 3	0 16	1 4	16 22	0 42	17 31	0 42	21 53	0 49	8 38	2 16	2 5	0 45	11 40	0 37	19 38	3 38	19 42	19 58	20 9	3 46	5 47			
W19	1 24	15 12	1 56	0s31	0 58	16 8	0 37	17 43	0 43	21 54	0 49	8 40	2 16	2 4	0 45	11 40	0 37	19 38	3 37	19 41	19 57	20 10	3 47	5 47			
T 20	1 1	18 25	0 41	1 18	0 52	15 52	0 33	17 55	0 43	21 54	0 49	8 43	2 16	2 4	0 45	11 41	0 37	19 38	3 37	19 40	19 57	20 10	3 48	5 47			
F 21	0 38	20 27	0n36	2 4	0 46	15 37	0 29	18 7	0 44	21 54	0 49	8 45	2 16	2 3	0 45	11 41	0 37	19 39	3 37	19 40	19 56	20 11	3 49	5 47			
S 22	0 14	21 8	1 49	2 50	0 40	15 20	0 24	18 18	0 45	21 54	0 49	8 48	2 16	2 2	0 45	11 42	0 37	19 39	3 37	19 40	19 55	20 11	3 50	5 47			
S 23	0s 9	20 29	2 56	3 36	0 33	15 4	0 20	18 30	0 45	21 54	0 49	8 50	2 16	2 1	0 45	11 42	0 37	19 39	3 37	19 40	19 55	20 12	3 51	5 46			
M24	0 32	18 35	3 51	4 21	0 26	14 47	0 16	18 42	0 46	21 55	0 49	8 52	2 16	2 0	0 45	11 43	0 37	19 39	3 36	19 40	19 54	20 12	3 52	5 46			
T 25	0 56	15 40	4 32	5 6	0 20	14 29	0 12	18 53	0 46	21 55	0 49	8 55	2 16	1 59	0 45	11 43	0 37	19 39	3 36	19 39	19 53	20 13	3 53	5 46			
W26	1 19	11 57	4 57	5 50	0 13	14 11	0 7	19 4	0 47	21 55	0 49	8 57	2 15	1 58	0 45	11 44	0 37	19 40	3 36	19 38	19 52	20 13	3 55	5 46			
T 27	1 42	7 42	5 6	6 34	0 6	13 53	0 3	19 16	0 47	21 55	0 49	9 0	2 15	1 57	0 45	11 44	0 37	19 40	3 36	19 36	19 52	20 14	3 56	5 46			
F 28	2 6	3 9	4 59	7 17	0s 1	13 34	0n 1	19 27	0 48	21 55	0 49	9 2	2 15	1 56	0 45	11 45	0 37	19 40	3 35	19 34	19 51	20 14	3 57	5 45			
S 29	2 29	1n27	4 36	8 0	0 9	13 15	0 5	19 38	0 48	21 55	0 49	9 5	2 15	1 55	0 45	11 45	0 37	19 40	3 35	19 32	19 50	20 15	3 58	5 45			
S 30	2s52	5n55	4n 0	8s42	0s16	12n55	0n 8	19s48	0s49	21n55	0s49	9s 7	2n15	1n54	0s45	11s46	0s37	19s40	3n35	19s30	19s50	20n15	3s59	5n45			

ASTRODIENST EPHEMERIS for the year 2012

geocentric

OCTOBER 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 40 31	8♂13'13	18♂4	23♂15	27♂21	25♂41	16♂22	29♂26	6♂R29	0♂R48	7♂0	26♂R57	28♂M28	2♂II 6	5♂R54	M 1
T 2	0 44 28	9°12'13	0♂17	24°48	28°30	26°23	16°22	29°33	6♂Y27	0♂H47	7°0	26♂M52	28°25	2°12	5♂H52	T 2
W 3	0 48 25	10°11'14	12°19	26°20	29°40	27°5	16°23	29°40	6°24	0°46	7°1	26°49	28°22	2°19	5°50	W 3
T 4	0 52 21	11°10'18	24°12	27°50	0♂H49	27°47	16°23	29°47	6°22	0°45	7°1	26°D47	28°19	2°26	5°48	T 4
F 5	0 56 18	12°9'24	6♂II 0	29°21	1°59	28°29	16°R23	29°54	6°19	0°44	7°2	26°48	28°15	2°32	5°46	F 5
S 6	1 0 14	13°8'32	17°47	0♂M50	3°9	29°12	16°23	0♂M1	6°17	0°43	7°2	26°49	28°12	2°39	5°43	S 6
S 7	1 4 11	14°7'43	29°38	2°18	4°20	29°54	16°22	0°8	6°15	0°42	7°3	26°51	28°9	2°45	5°41	S 7
M 8	1 8 7	15°6'55	11♂37	3°46	5°30	0♂H37	16°22	0°15	6°12	0°40	7°3	26°R52	28°6	2°52	5°39	M 8
T 9	1 12 4	16°6'10	23°49	5°12	6°40	1°19	16°21	0°22	6°10	0°39	7°4	26°51	28°3	2°59	5°37	T 9
W10	1 16 0	17°5'28	6♂M21	6°38	7°51	2°2	16°20	0°29	6°7	0°38	7°5	26°49	28°0	3°5	5°35	W10
T11	1 19 57	18°4'47	19°16	8°3	9°2	2°44	16°19	0°37	6°5	0°37	7°5	26°46	27°56	3°12	5°33	T11
F12	1 23 54	19°4'09	2♂H36	9°27	10°13	3°27	16°17	0°44	6°3	0°36	7°6	26°41	27°53	3°19	5°32	F12
S13	1 27 50	20°3'34	16°23	10°50	11°24	4°10	16°16	0°51	6°0	0°36	7°7	26°35	27°50	3°25	5°30	S13
S14	1 31 47	21°3'00	0♂H35	12°12	12°35	4°53	16°14	0°58	5°58	0°35	7°8	26°29	27°47	3°32	5°28	S14
M15	1 35 43	22°2'28	15°8	13°33	13°46	5°36	16°12	1°5	5°56	0°34	7°8	26°24	27°44	3°39	5°26	M15
T16	1 39 40	23°1'59	29°56	14°53	14°57	6°19	16°10	1°12	5°54	0°33	7°9	26°21	27°40	3°45	5°24	T16
W17	1 43 36	24°1'32	14♂M51	16°12	16°9	7°2	16°7	1°20	5°51	0°32	7°10	26°19	27°37	3°52	5°23	W17
T18	1 47 33	25°1'06	29°44	17°30	17°20	7°45	16°5	1°27	5°49	0°31	7°11	26°D18	27°34	3°59	5°21	T18
F19	1 51 29	26°0'43	14♂H29	18°46	18°32	8°29	16°2	1°34	5°47	0°30	7°12	26°19	27°31	4°5	5°20	F19
S20	1 55 26	27°0'21	29°0	20°1	19°43	9°12	15°59	1°41	5°45	0°30	7°13	26°21	27°28	4°12	5°18	S20
S21	1 59 23	28°0'01	13♂H13	21°14	20°55	9°56	15°56	1°49	5°42	0°29	7°14	26°22	27°25	4°18	5°17	S21
M22	2 3 19	28°59'43	27°7	22°26	22°7	10°39	15°52	1°56	5°40	0°28	7°15	26°R23	27°21	4°25	5°15	M22
T23	2 7 16	29°59'26	10♂H33	23°36	23°19	11°23	15°49	2°3	5°38	0°28	7°16	26°22	27°18	4°32	5°14	T23
W24	2 11 12	0♂M59'11	24°0	24°44	24°31	12°6	15°45	2°10	5°36	0°27	7°17	26°21	27°15	4°38	5°13	W24
T25	2 15 9	1°58'58	7♂H1	25°49	25°43	12°50	15°41	2°18	5°34	0°27	7°18	26°18	27°12	4°45	5°12	T25
F26	2 19 5	2°58'46	19°47	26°53	26°56	13°34	15°37	2°25	5°32	0°26	7°19	26°14	27°9	4°52	5°10	F26
S27	2 23 2	3°58'36	2♂H20	27°54	28°8	14°18	15°32	2°32	5°30	0°25	7°20	26°11	27°6	4°58	5°9	S27
S28	2 26 58	4°58'28	14°41	28°52	29°21	15°2	15°28	2°39	5°28	0°25	7°22	26°7	27°2	5°5	5°8	S28
M29	2 30 55	5°58'22	26°51	29°46	0♂H33	15°46	15°23	2°47	5°26	0°24	7°23	26°4	26°59	5°12	5°7	M29
T30	2 34 52	6°58'18	8♂H53	0♂H37	1°46	16°30	15°18	2°54	5°24	0°24	7°24	26°2	26°56	5°18	5°6	T30
W31	2 38 48	7♂M58'15	20♂H48	1♂H24	2♂H58	17♂H14	15♂H13	3♂M1	5♂Y22	0♂H24	7♂H25	26°D1	26♂M53	5♂H25	5♂H5	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	3s16	10n 4	3n14	9s23	0s23	12n35	0n12	19s59	0s50	21n55	0s49	9s10	2n15	1n53	0s45	11s46
T 2	3 39	13 44	2 18	10 4	0 30	12 15	0 16	20 9	0 50	21 55	0 49	9 12	2 15	1 52	0 45	11 47
W 3	4 2	16 46	1 18	10 45	0 37	11 54	0 20	20 20	0 51	21 55	0 49	9 15	2 15	1 51	0 45	11 47
T 4	4 25	19 3	0 14	11 24	0 45	11 33	0 23	20 30	0 51	21 55	0 49	9 17	2 15	1 50	0 45	11 47
F 5	4 48	20 29	0s50	12 3	0 52	11 11	0 27	20 40	0 52	21 55	0 49	9 20	2 15	1 49	0 45	11 48
S 6	5 11	21 1	1 52	12 41	0 59	10 49	0 31	20 49	0 52	21 55	0 49	9 22	2 15	1 48	0 45	11 48
S 7	5 34	20 37	2 49	13 18	1 6	10 27	0 34	20 59	0 53	21 55	0 49	9 25	2 15	1 47	0 45	11 49
M 8	5 57	19 17	3 40	13 55	1 13	10 4	0 37	21 8	0 53	21 55	0 50	9 28	2 15	1 46	0 45	11 49
T 9	6 20	17 3	4 21	14 31	1 20	9 42	0 41	21 18	0 53	21 55	0 50	9 30	2 14	1 46	0 45	11 49
W10	6 43	13 58	4 52	15 6	1 27	9 18	0 44	21 27	0 54	21 55	0 50	9 33	2 14	1 45	0 45	11 50
T11	7 5	10 9	5 9	15 40	1 34	8 55	0 47	21 36	0 54	21 55	0 50	9 35	2 14	1 44	0 45	11 50
F12	7 28	5 44	5 10	16 13	1 40	8 31	0 50	21 44	0 55	21 54	0 50	9 38	2 14	1 43	0 45	11 50
S13	7 50	0 52	4 53	16 46	1 47	8 7	0 53	21 53	0 55	21 54	0 50	9 40	2 14	1 42	0 45	11 51
S14	8 13	4s11	4 18	17 18	1 53	7 42	0 56	22 1	0 56	21 54	0 50	9 43	2 14	1 41	0 45	11 51
M15	8 35	9 8	3 26	17 48	1 59	7 18	0 59	22 9	0 56	21 54	0 50	9 45	2 14	1 40	0 45	11 51
T16	8 57	13 37	2 19	18 18	2 5	6 53	1 2	22 17	0 57	21 54	0 50	9 48	2 14	1 39	0 45	11 52
W17	9 19	17 17	1 2	18 47	2 11	6 28	1 5	22 25	0 57	21 53	0 50	9 50	2 14	1 38	0 45	11 52
T18	9 41	19 47	0n19	19 14	2 17	6 2	1 7	22 33	0 57	21 53	0 50	9 53	2 14	1 37	0 45	11 52
F19	10 3	20 55	1 38	19 41	2 22	5 37	1 10	22 40	0 58	21 53	0 50	9 55	2 14	1 37	0 45	11 52
S20	10 24	20 36	2 50	20 6	2 27	5 11	1 12	22 47	0 58	21 52	0 50	9 58	2 14	1 36	0 45	11 53
S21	10 46	18 58	3 50	20 31	2 32	4 45	1 15	22 54	0 59	21 52	0 50	10 0	2 14	1 35	0 45	11 53
M22	11 7	16 14	4 35	20 54	2 36	4 19	1 17	23 1	0 59	21 52	0 50	10 3	2 14	1 34	0 45	11 53
T23	11 28	12 41	5 3	21 16	2 41	3 52	1 19	23 7	0 59	21 51	0 50	10 5	2 14	1 33	0 45	11 53
W24	11 49	8 34	5 14	21 36	2 44	3 26	1 22	23 14	1 0	21 51	0 50	10 8	2 14	1 32	0 45	11 54
T25	12 10	4 9	5 9	21 55	2 48	2 59	1 24	23 20	1 0	21 50	0 50	10 10	2 14	1 32	0 45	11 54
F26	12 30	0n23	4 49	22 13	2 51	2 32	1 26	23 26	1 1	21 50	0 50	10 13	2 14	1 31	0 45	11 54
S27	12 51	4 49	4 15	22 30	2 53	2 5	1 28	23 31	1 1	21 49	0 50	10 15	2 14	1 30	0 45	11 54
S28	13 11	9 0	3 29	22 44	2 55	1 38	1 29	23 37	1 1	21 49	0 50	10 18	2 14	1 29	0 45	11 54
M29	13 31	12 45	2 34	22 58	2 56	1 10	1 31	23 42	1 2	21 49	0 50	10 20	2 14	1 28	0 45	11 54
T30	13 50	15 56	1 33	23 9	2 56	0 43	1 33	23 47	1 2	21 48	0 50	10 23	2 14	1 28	0 45	11 55
W31	14s10	18n25	0n29	23s19	2s56	0n16	1n34	23s51	1s2	21n47	0s50	10s25	2n14	1n27	0s45	11s55

Julian Day Number = 2456201.5, Delta T = 66.83 sec
 Ecliptic obliquity = 23°26'11, Nutation = 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°55'06, Lahiri = 24°02'07

ASTRODIENST EPHEMERIS for the year 2012

geocentric

NOVEMBER 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 45	8♌58'15	2♊37	2♂ 7	4♎11	17♏58	15♍ 8	3♌ 8	5♍20	0♍23	7♏27	26♌ 1	26♌50	5♊32	5♍ 4	T 1
F 2	2 46 41	9°58'16	14°24	2°45	5°24	18°43	15♊ 3	3°16	5♍18	0♏23	7°28	26° 2	26°46	5°38	5♏ 4	F 2
S 3	2 50 38	10°58'20	26°12	3°17	6°37	19°27	14°57	3°23	5°16	0°23	7°29	26° 3	26°43	5°45	5° 3	S 3
S 4	2 54 34	11°58'26	8♏ 3	3°43	7°50	20°11	14°52	3°30	5°14	0°22	7°31	26° 5	26°40	5°52	5° 2	S 4
M 5	2 58 31	12°58'33	20° 2	4° 2	9° 3	20°56	14°46	3°37	5°13	0°22	7°32	26° 6	26°37	5°58	5° 2	M 5
T 6	3 2 27	13°58'43	2♎14	4°14	10°16	21°41	14°40	3°44	5°11	0°22	7°33	26° 7	26°34	6° 5	5° 1	T 6
W 7	3 6 24	14°58'55	14°42	4°R18	11°30	22°25	14°34	3°52	5° 9	0°22	7°35	26°R 7	26°31	6°11	5° 1	W 7
T 8	3 10 21	15°59'09	27°31	4°13	12°43	23°10	14°28	3°59	5° 8	0°22	7°36	26° 7	26°27	6°18	5° 0	T 8
F 9	3 14 17	16°59'25	10♐44	3°59	13°56	23°55	14°21	4° 6	5° 6	0°22	7°38	26° 6	26°24	6°25	5° 0	F 9
S 10	3 18 14	17°59'42	24°25	3°35	15°10	24°39	14°15	4°13	5° 4	0°22	7°39	26° 5	26°21	6°31	4°59	S 10
S 11	3 22 10	19° 0'02	8♎33	3° 2	16°23	25°24	14° 8	4°20	5° 3	0°D22	7°41	26° 4	26°18	6°38	4°59	S 11
M12	3 26 7	20° 0'24	23° 6	2°18	17°37	26° 9	14° 1	4°27	5° 1	0°22	7°42	26° 4	26°15	6°45	4°59	M12
T 13	3 30 3	21° 0'48	8♌ 0	1°24	18°51	26°54	13°54	4°34	5° 0	0°22	7°44	26° 3	26°12	6°51	4°59	T 13
W14	3 34 0	22° 1'13	23° 7	0°22	20° 4	27°39	13°47	4°41	4°58	0°22	7°45	26°D 3	26° 8	6°58	4°59	W14
T 15	3 37 56	23° 1'40	8♏19	29♌12	21°18	28°25	13°40	4°49	4°57	0°22	7°47	26° 3	26° 5	7° 5	4°D59	T 15
F 16	3 41 53	24° 2'09	23°24	27°56	22°32	29°10	13°33	4°56	4°56	0°22	7°49	26° 3	26° 2	7°11	4°59	F 16
S 17	3 45 50	25° 2'39	8♏16	26°36	23°46	29°55	13°25	5° 3	4°54	0°22	7°50	26° 3	25°59	7°18	4°59	S 17
S 18	3 49 46	26° 3'10	22°47	25°15	25° 0	0♏40	13°18	5° 9	4°53	0°22	7°52	26°R 4	25°56	7°25	4°59	S 18
M19	3 53 43	27° 3'43	6♏54	23°55	26°14	1°26	13°10	5°16	4°52	0°23	7°54	26° 3	25°52	7°31	4°59	M19
T 20	3 57 39	28° 4'17	20°36	22°39	27°28	2°11	13° 3	5°23	4°51	0°23	7°55	26° 3	25°49	7°38	5° 0	T 20
W21	4 1 36	29° 4'52	3♏53	21°30	28°42	2°57	12°55	5°30	4°50	0°23	7°57	26°D 3	25°46	7°45	5° 0	W21
T 22	4 5 32	0♏5'28	16°47	20°30	29°56	3°42	12°47	5°37	4°49	0°24	7°59	26° 4	25°43	7°51	5° 0	T 22
F 23	4 9 29	1° 6'05	29°23	19°39	1♌10	4°28	12°39	5°44	4°47	0°24	8° 1	26° 4	25°40	7°58	5° 1	F 23
S 24	4 13 25	2° 6'44	11♏43	18°59	2°24	5°14	12°31	5°51	4°46	0°24	8° 2	26° 5	25°37	8° 4	5° 1	S 24
S 25	4 17 22	3° 7'23	23°51	18°31	3°38	5°59	12°23	5°57	4°46	0°25	8° 4	26° 5	25°33	8°11	5° 2	S 25
M26	4 21 19	4° 8'04	5♏49	18°15	4°53	6°45	12°15	6° 4	4°45	0°25	8° 6	26° 6	25°30	8°18	5° 2	M26
T 27	4 25 15	5° 8'46	17°42	18°D10	6° 7	7°31	12° 7	6°11	4°44	0°26	8° 8	26° 7	25°27	8°24	5° 3	T 27
W28	4 29 12	6° 9'30	29°31	18°16	7°21	8°17	11°59	6°17	4°43	0°26	8°10	26°R 7	25°24	8°31	5° 4	W28
T 29	4 33 8	7°10'14	11♊19	18°32	8°36	9° 3	11°51	6°24	4°42	0°27	8°12	26° 6	25°21	8°38	5° 5	T 29
F 30	4 37 5	8♏11'00	23♊ 8	18♌57	9♌50	9♏49	11♊43	6♌31	4♏42	0♏28	8♏14	26♌ 5	25♌18	8♊44	5♏ 6	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	14s29	20n 5	0s37	23s27	2s55	0s12	1n36	23s56	1s 3	21n47	0s50	10s28	2n14	1n26	0s45	T 1
F 2	14 48	20 52	1 40	23 32	2 53	0 40	1 37	24 0	1 3	21 46	0 50	10 30	2 14	1 25	0 45	F 2
S 3	15 7	20 43	2 40	23 36	2 50	1 7	1 38	24 4	1 3	21 46	0 50	10 32	2 14	1 25	0 45	S 3
S 4	15 26	19 39	3 33	23 37	2 46	1 35	1 40	24 8	1 4	21 45	0 50	10 35	2 14	1 24	0 44	S 4
M 5	15 44	17 42	4 17	23 36	2 41	2 3	1 41	24 11	1 4	21 44	0 50	10 37	2 14	1 23	0 44	M 5
T 6	16 2	14 56	4 51	23 32	2 35	2 30	1 42	24 14	1 4	21 44	0 50	10 40	2 14	1 23	0 44	T 6
W 7	16 20	11 27	5 11	23 25	2 27	2 58	1 43	24 17	1 4	21 43	0 50	10 42	2 14	1 22	0 44	W 7
T 8	16 37	7 22	5 18	23 15	2 18	3 26	1 44	24 20	1 5	21 42	0 50	10 44	2 14	1 21	0 44	T 8
F 9	16 54	2 48	5 7	23 2	2 7	3 54	1 44	24 23	1 5	21 42	0 50	10 47	2 14	1 21	0 44	F 9
S 10	17 11	2s 4	4 40	22 45	1 55	4 21	1 45	24 25	1 5	21 41	0 50	10 49	2 14	1 20	0 44	S 10
S 11	17 28	6 59	3 55	22 25	1 41	4 49	1 46	24 27	1 5	21 40	0 50	10 51	2 14	1 20	0 44	S 11
M12	17 44	11 40	2 53	22 1	1 25	5 17	1 46	24 28	1 6	21 40	0 50	10 54	2 14	1 19	0 44	M12
T 13	18 0	15 44	1 39	21 33	1 8	5 44	1 47	24 30	1 6	21 39	0 49	10 56	2 14	1 19	0 44	T 13
W14	18 16	18 49	0 16	21 2	0 50	6 12	1 47	24 31	1 6	21 38	0 49	10 58	2 14	1 18	0 44	W14
T 15	18 32	20 34	1n 8	20 28	0 30	6 39	1 47	24 32	1 6	21 37	0 49	11 1	2 14	1 17	0 44	T 15
F 16	18 47	20 50	2 27	19 51	0 10	7 6	1 47	24 33	1 7	21 36	0 49	11 3	2 14	1 17	0 44	F 16
S 17	19 1	19 37	3 34	19 13	0n11	7 33	1 47	24 33	1 7	21 36	0 49	11 5	2 15	1 16	0 44	S 17
S 18	19 16	17 8	4 26	18 34	0 31	8 0	1 47	24 33	1 7	21 35	0 49	11 7	2 15	1 16	0 44	S 18
M19	19 30	13 41	5 1	17 55	0 51	8 27	1 47	24 33	1 7	21 34	0 49	11 10	2 15	1 16	0 44	M19
T 20	19 44	9 37	5 17	17 18	1 10	8 54	1 47	24 33	1 7	21 33	0 49	11 12	2 15	1 15	0 44	T 20
W21	19 57	5 11	5 15	16 44	1 27	9 21	1 47	24 32	1 8	21 32	0 49	11 14	2 15	1 15	0 44	W21
T 22	20 10	0 38	4 58	16 13	1 43	9 47	1 47	24 31	1 8	21 31	0 49	11 16	2 15	1 14	0 44	T 22
F 23	20 23	3n49	4 26	15 47	1 56	10 13	1 46	24 30	1 8	21 30	0 49	11 18	2 15	1 14	0 44	F 23
S 24	20 35	8 3	3 43	15 25	2 7	10 39	1 46	24 28	1 8	21 29	0 49	11 21	2 15	1 14	0 44	S 24
S 25	20 47	11 53	2 50	15 9	2 17	11 5	1 45	24 26	1 8	21 29	0 49	11 23	2 15	1 13	0 44	S 25
M26	20 58	15 12	1 50	14 57	2 24	11 30	1 45	24 24	1 8	21 28	0 48	11 25	2 15	1 13	0 44	M26
T 27	21 9	17 51	0 47	14 51	2 29	11 55	1 44	24 22	1 9	21 27	0 48	11 27	2 15	1 13	0 44	T 27
W28	21 20	19 44	0s19	14 49	2 33	12 20	1 43	24 19	1 9	21 26	0 48	11 29	2 15	1 12	0 44	W28
T 29	21 30	20 45	1 23	14 52	2 34	12 45	1 42	24 16	1 9	21 25	0 48	11 31	2 16	1 12	0 44	T 29
F 30	21s40	20n51	2s24	14s58	2n35	13s10	1n41	24s13	1s 9	21n24	0s48	11s33	2n16	1n12	0s44	F 30

Julian Day Number = 2456232.5, Delta T = 66.85 sec

Ecliptic obliquity = 23°26'10, Nutation = 0°00'13, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°55'10, Lahiri = 24°02'11

ASTRODIENST EPHEMERIS for the year 2012

geocentric

DECEMBER 2012

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 41 1	9♌11'48	5♍0	19♍30	11♍5	10♌35	11°R35	6♍37	4°R41	0♌28	8♌15	26°R 3	25♍14	8♌51	5♌7	S 1
S 2	4 44 58	10°12'36	16°56	20°11	12°19	11°21	11♌27	6°44	4°Y40	0°29	8°17	26♍1	25°11	8°58	5°8	S 2
M 3	4 48 54	11°13'26	29°1	20°58	13°34	12°7	11°18	6°50	4°40	0°30	8°19	25°59	25°8	9°4	5°9	M 3
T 4	4 52 51	12°14'17	11♌16	21°52	14°48	12°53	11°10	6°56	4°39	0°30	8°21	25°57	25°5	9°11	5°10	T 4
W 5	4 56 48	13°15'09	23°44	22°50	16°3	13°39	11°2	7°3	4°39	0°31	8°23	25°55	25°2	9°18	5°11	W 5
T 6	5 0 44	14°16'03	6♍30	23°53	17°18	14°25	10°54	7°9	4°38	0°32	8°25	25°54	24°58	9°24	5°12	T 6
F 7	5 4 41	15°16'58	19°35	24°59	18°32	15°11	10°46	7°15	4°38	0°33	8°27	25°D54	24°55	9°31	5°13	F 7
S 8	5 8 37	16°17'54	3♌5	26°9	19°47	15°58	10°38	7°21	4°38	0°34	8°29	25°54	24°52	9°38	5°15	S 8
S 9	5 12 34	17°18'52	16°59	27°22	21°2	16°44	10°30	7°28	4°37	0°35	8°31	25°56	24°49	9°44	5°16	S 9
M10	5 16 30	18°19'51	1♍18	28°37	22°16	17°31	10°22	7°34	4°37	0°36	8°33	25°57	24°46	9°51	5°17	M10
T 11	5 20 27	19°20'51	16°1	29°55	23°31	18°17	10°14	7°40	4°37	0°37	8°35	25°58	24°43	9°57	5°19	T 11
W12	5 24 23	20°21'52	1♌2	1♌14	24°46	19°4	10°6	7°46	4°37	0°38	8°37	25°R58	24°39	10°4	5°20	W12
T 13	5 28 20	21°22'54	16°14	2°35	26°1	19°50	9°58	7°52	4°37	0°39	8°39	25°57	24°36	10°11	5°22	T 13
F 14	5 32 17	22°23'57	1♌27	3°57	27°16	20°37	9°50	7°58	4°D37	0°40	8°41	25°55	24°33	10°17	5°24	F 14
S 15	5 36 13	23°25'00	16°31	5°21	28°31	21°23	9°42	8°3	4°37	0°41	8°43	25°51	24°30	10°24	5°25	S 15
S 16	5 40 10	24°26'04	1♌17	6°46	29°46	22°10	9°34	8°9	4°37	0°42	8°46	25°47	24°27	10°31	5°27	S 16
M17	5 44 6	25°27'09	15°39	8°11	1♌0	22°57	9°27	8°15	4°37	0°43	8°48	25°43	24°24	10°37	5°29	M17
T 18	5 48 3	26°28'14	29°33	9°37	2°15	23°43	9°19	8°21	4°37	0°44	8°50	25°39	24°20	10°44	5°31	T 18
W19	5 51 59	27°29'19	12♌57	11°5	3°30	24°30	9°12	8°26	4°38	0°46	8°52	25°37	24°17	10°51	5°33	W19
T 20	5 55 56	28°30'25	25°55	12°32	4°45	25°17	9°5	8°32	4°38	0°47	8°54	25°D36	24°14	10°57	5°35	T 20
F 21	5 59 52	29°31'30	8°Y29	14°1	6°0	26°4	8°57	8°37	4°38	0°48	8°56	25°36	24°11	11°4	5°37	F 21
S 22	6 3 49	0♌32'36	20°45	15°29	7°15	26°51	8°50	8°43	4°39	0°50	8°58	25°37	24°8	11°11	5°39	S 22
S 23	6 7 46	1°33'42	2♌47	16°59	8°30	27°38	8°43	8°48	4°39	0°51	9°0	25°39	24°4	11°17	5°41	S 23
M24	6 11 42	2°34'49	14°40	18°28	9°45	28°24	8°36	8°53	4°40	0°52	9°2	25°41	24°1	11°24	5°43	M24
T 25	6 15 39	3°35'55	26°27	19°58	11°0	29°11	8°30	8°58	4°40	0°54	9°4	25°R41	23°58	11°31	5°45	T 25
W26	6 19 35	4°37'02	8♌14	21°29	12°15	29°58	8°23	9°3	4°41	0°55	9°7	25°40	23°55	11°37	5°48	W26
T 27	6 23 32	5°38'09	20°3	23°0	13°30	0♌45	8°17	9°8	4°42	0°57	9°9	25°37	23°52	11°44	5°50	T 27
F 28	6 27 28	6°39'17	1♌56	24°31	14°45	1°32	8°10	9°13	4°42	0°58	9°11	25°32	23°49	11°51	5°52	F 28
S 29	6 31 25	7°40'24	13°56	26°2	16°0	2°19	8°4	9°18	4°43	1°0	9°13	25°26	23°45	11°57	5°55	S 29
S 30	6 35 21	8°41'32	26°3	27°34	17°16	3°7	7°58	9°23	4°44	1°1	9°15	25°18	23°42	12°4	5°57	S 30
M31	6 39 18	9♌42'40	8♌19	29♌6	18♌31	3♌54	7♌52	9♌28	4°Y45	1♌3	9♌17	25♌9	23♌39	12♌11	6♌0	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
S 1	21s50	20n 1	3s19	15s 8	2n34	13s34	1n40	24s10	1s 9	21n23	0s48	11s35	2n16	1n12	0s44	11s53	0s37	19s48	3n23	19s16	19s 4	20n34	4s37	5n24			
S 2	21 59	18 18	4 6	15 21	2 32	13 57	1 39	24 6	1 9	21 22	0 48	11 37	2 16	1 11	0 44	11 53	0 37	19 48	3 23	19 15	19 4	20 35	4 37	5 23			
M 3	22 7	15 45	4 42	15 36	2 29	14 21	1 38	24 2	1 9	21 21	0 48	11 39	2 16	1 11	0 43	11 52	0 37	19 48	3 23	19 15	19 3	20 35	4 37	5 23			
T 4	22 15	12 29	5 6	15 53	2 25	14 44	1 37	23 58	1 9	21 20	0 47	11 41	2 16	1 11	0 43	11 52	0 37	19 48	3 23	19 14	19 2	20 35	4 37	5 23			
W 5	22 23	8 38	5 16	16 12	2 21	15 7	1 36	23 53	1 9	21 19	0 47	11 43	2 16	1 11	0 43	11 52	0 37	19 48	3 23	19 14	19 1	20 35	4 36	5 22			
T 6	22 31	4 18	5 11	16 33	2 16	15 29	1 34	23 49	1 10	21 18	0 47	11 45	2 16	1 11	0 43	11 51	0 37	19 48	3 23	19 14	19 0	20 35	4 36	5 22			
F 7	22 37	0s19	4 50	16 55	2 10	15 51	1 33	23 43	1 10	21 17	0 47	11 47	2 16	1 11	0 43	11 51	0 37	19 48	3 23	19 14	19 0	20 35	4 36	5 22			
S 8	22 44	5 5	4 12	17 17	2 4	16 13	1 31	23 38	1 10	21 16	0 47	11 49	2 17	1 11	0 43	11 51	0 37	19 48	3 22	19 14	18 59	20 35	4 36	5 21			
S 9	22 50	9 44	3 19	17 40	1 57	16 34	1 30	23 33	1 10	21 15	0 47	11 51	2 17	1 10	0 43	11 50	0 37	19 48	3 22	19 14	18 58	20 36	4 36	5 21			
M10	22 55	13 59	2 12	18 3	1 51	16 55	1 28	23 27	1 10	21 14	0 47	11 52	2 17	1 10	0 43	11 50	0 37	19 48	3 22	19 14	18 57	20 36	4 36	5 20			
T 11	23 1	17 30	0 55	18 27	1 44	17 15	1 27	23 20	1 10	21 13	0 46	11 54	2 17	1 10	0 43	11 50	0 37	19 48	3 22	19 15	18 57	20 36	4 36	5 20			
W12	23 5	19 55	0n28	18 50	1 36	17 35	1 25	23 14	1 10	21 12	0 46	11 56	2 17	1 10	0 43	11 49	0 37	19 48	3 22	19 15	18 56	20 36	4 35	5 20			
T 13	23 9	20 55	1 49	19 13	1 29	17 54	1 23	23 7	1 10	21 11	0 46	11 58	2 17	1 10	0 43	11 49	0 37	19 48	3 22	19 15	18 55	20 36	4 35	5 19			
F 14	23 13	20 23	3 3	19 36	1 21	18 13	1 21	23 0	1 10	21 10	0 46	12 0	2 17	1 10	0 43	11 49	0 37	19 48	3 22	19 14	18 54	20 36	4 35	5 19			
S 15	23 16	18 24	4 3	19 59	1 14	18 32	1 20	22 53	1 10	21 9	0 46	12 1	2 17	1 11	0 43	11 48	0 37	19 48	3 21	19 13	18 54	20 36	4 35	5 19			
S 16	23 19	15 13	4 46	20 21	1 6	18 50	1 18	22 46	1 10	21 8	0 46	12 3	2 18	1 11	0 43	11 48	0 37	19 48	3 21	19 12	18 53	20 36	4 34	5 18			
M17	23 21	11 13	5 9	20 42	0 59	19 7	1 16	22 38	1 10	21 7	0 45	12 5	2 18	1 11	0 43	11 47	0 37	19 48	3 21	19 11	18 52	20 37	4 34	5 18			
T 18	23 23	6 44	5 13	21 3	0 51	19 24	1 14	22 30	1 10	21 6	0 45	12 6	2 18	1 11	0 43	11 47	0 37	19 48	3 21	19 10	18 51	20 37	4 33	5 18			
W19	23 25	2 5	4 59	21 23	0 43	19 41	1 12	22 22	1 10	21 5	0 45	12 8	2 18	1 11	0 43	11 46	0 37	19 48	3 21	19 10	18 50	20 37	4 33	5 17			
T 20	23 26	2n31	4 31	21 43	0 36	19 57	1 10	22 13	1 10	21 4	0 45	12 10	2 18	1 11	0 43	11 46	0 37	19 48	3 21	19 9	18 50	20 37	4 33	5 17			
F 21	23 26	6 53	3 50	22 1	0 28	20 12	1 7	22 5	1 10	21 3	0 45	12 11	2 18	1 11	0 43	11 45	0 37	19 48	3 21	19 9	18 49	20 37	4 32	5 17			
S 22	23 26	10 52	3 0	22 18	0 20	20 27	1 5	21 56	1 10	21 2	0 44	12 13	2 19	1 12	0 43	11 45	0 37	19 48	3 21	19 10	18 48	20 37	4 32	5 16			
S 23	23 26	14 21	2 2	22 35	0 13	20 41	1 3	21 46	1 10	21 1	0 44	12 14	2 19	1 12	0 43	11 45	0 37	19 48	3 21	19 10	18 47	20 37	4 31	5 16			
M24	23 25	17 11	1 0	22 51	0 6	20 54	1 1	21 37	1 10	21 1	0 44	12 16	2 19	1 12	0 43	11 44	0 37	19 48	3 20	19 11	18 46	20 37	4 31	5 16			
T 25	23 23	19 17	0s 4	23 5	0s 2	21 7	0 59	21 27	1 10	21 0	0 44	12 17	2 19	1 12	0 43	11 44	0 37	19 48	3 20	19 11	18 46	20 37	4 30	5 15			
W26	23 21	20 34	1 8	23 19	0 9	21 20	0 56	21 17	1 10	20 59	0 44	12 19	2 19	1 13	0 43	11 43	0 37	19 48	3 20	19 10	18 45	20 37	4 30	5 15			
T 27	23 19	20 55	2 9	23 31	0 16	21 31	0 54	21 7	1 10	20 58	0 43	12 20	2 19	1 13	0 43	11 42	0 37	19 48	3 20	19 10	18 44	20 37	4 29	5 15			
F 28	23 16	20 21	3 4	23 42	0 23	21 43	0 52	20 57	1 9	20 57	0 43	12 22	2 20	1 13	0 42	11 42	0 37	19 48	3 20	19 9	18 43	20 37	4 29	5 14			
S 29	23 13	18 52	3 52	23 52	0 30	21 53	0 49	20 46	1 9	20 57	0 43	12 23	2 20	1 13	0 42	11 41	0 37	19 47	3 20	19 7	18 43	20 37	4 28	5 14			
S 30	23 9	16 31	4 29	24 1	0 36	22 3	0 47	20 35	1 9	20 56	0 43	12 24	2 20	1 14	0 42	11 41	0 37	19 47	3 20	19 5	18 42	20 37	4 28	5 14			
M31	23s 5	13n26	4s55	24s 9	0s43	22s12	0n44	20s24	1s 9	20n55	0s43	12s26	2n20	1n14	0s42	11s40	0s37	19s47	3n20	19s 3	18s41	20n37	4s27	5n13			