



Astrodienst Ephemeris Tables for the year 2013

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 2013

geocentric

JANUARY 2013

00:00 UT

Day	Sid.t	☉	☽	♈	♀	♂	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	Day
T 1	6 43 15	10 ⁰³ 43'48	20 ⁰² 46	0 ⁰³ 38	19 ²⁷ 46	4 ⁴⁴ 41	7 ⁰⁴ 46	9 ⁰⁴ 33	4 ⁰⁴ 46	1 ⁰⁴ 4	9 ⁰³ 19	25 ⁰⁰ R 0	23 ⁰³ M36	12 ⁰² II17	6 ⁰⁴ ♂ 2	T 1	
W 2	6 47 11	11 ⁰⁴ 44'56	3 ⁰³ 24	2 ⁰¹ 11	21 ⁰ 1	5 ⁰ 28	7 ⁰² II41	9 ⁰ 37	4 ⁰ 47	1 ⁰ 6	9 ⁰ 21	24 ⁰⁴ M53	23 ⁰ 33	12 ⁰ 24	6 ⁰ 5	W 2	
T 3	6 51 8	12 ⁰⁴ 46'05	16 ⁰ 15	3 ⁰ 44	22 ⁰ 16	6 ⁰ 15	7 ⁰ 35	9 ⁰ 42	4 ⁰ 48	1 ⁰ 8	9 ⁰ 24	24 ⁰ 48	23 ⁰ 30	12 ⁰ 30	6 ⁰ 8	T 3	
F 4	6 55 4	13 ⁰⁴ 47'14	29 ⁰ 21	5 ⁰ 18	23 ⁰ 31	7 ⁰ 2	7 ⁰ 30	9 ⁰ 46	4 ⁰ 49	1 ⁰ 9	9 ⁰ 26	24 ⁰ 44	23 ⁰ 26	12 ⁰ 37	6 ⁰ 10	F 4	
S 5	6 59 1	14 ⁰⁴ 48'23	12 ⁰² 44	6 ⁰ 51	24 ⁰ 46	7 ⁰ 50	7 ⁰ 25	9 ⁰ 51	4 ⁰ 50	1 ⁰ 11	9 ⁰ 28	24 ⁰ D43	23 ⁰ 23	12 ⁰ 44	6 ⁰ 13	S 5	
S 6	7 2 57	15 ⁰⁴ 49'32	26 ⁰ 26	8 ⁰ 26	26 ⁰ 1	8 ⁰ 37	7 ⁰ 20	9 ⁰ 55	4 ⁰ 51	1 ⁰ 13	9 ⁰ 30	24 ⁰ 44	23 ⁰ 20	12 ⁰ 50	6 ⁰ 16	S 6	
M 7	7 6 54	16 ⁰⁵ 50'42	10 ⁰⁴ M29	10 ⁰ 0	27 ⁰ 17	9 ⁰ 24	7 ⁰ 15	9 ⁰ 59	4 ⁰ 52	1 ⁰ 14	9 ⁰ 32	24 ⁰ 45	23 ⁰ 17	12 ⁰ 57	6 ⁰ 19	M 7	
T 8	7 10 50	17 ⁰⁵ 51'52	24 ⁰ 51	11 ⁰ 35	28 ⁰ 32	10 ⁰ 11	7 ⁰ 11	10 ⁰ 3	4 ⁰ 54	1 ⁰ 16	9 ⁰ 34	24 ⁰ R45	23 ⁰ 14	13 ⁰ 4	6 ⁰ 21	T 8	
W 9	7 14 47	18 ⁰⁵ 53'02	9 ⁰⁴ ♂32	13 ⁰ 10	29 ⁰ 47	10 ⁰ 59	7 ⁰ 6	10 ⁰ 7	4 ⁰ 55	1 ⁰ 18	9 ⁰ 36	24 ⁰ 44	23 ⁰ 10	13 ⁰ 10	6 ⁰ 24	W 9	
T 10	7 18 44	19 ⁰⁵ 54'12	24 ⁰ 26	14 ⁰ 46	1 ⁰³ 2	11 ⁰ 46	7 ⁰ 12	10 ⁰ 11	4 ⁰ 56	1 ⁰ 20	9 ⁰ 38	24 ⁰ 41	23 ⁰ 7	13 ⁰ 17	6 ⁰ 27	T 10	
F 11	7 22 40	20 ⁰⁵ 55'21	9 ⁰³ ♂27	16 ⁰ 22	2 ⁰ 17	12 ⁰ 33	6 ⁰ 58	10 ⁰ 15	4 ⁰ 58	1 ⁰ 22	9 ⁰ 40	24 ⁰ 35	23 ⁰ 4	13 ⁰ 24	6 ⁰ 30	F 11	
S 12	7 26 37	21 ⁰⁵ 56'31	24 ⁰ 25	17 ⁰ 59	3 ⁰ 32	13 ⁰ 21	6 ⁰ 54	10 ⁰ 19	4 ⁰ 59	1 ⁰ 23	9 ⁰ 43	24 ⁰ 27	23 ⁰ 1	13 ⁰ 30	6 ⁰ 33	S 12	
S 13	7 30 33	22 ⁰⁵ 57'40	9 ⁰⁴ ♂11	19 ⁰ 36	4 ⁰ 48	14 ⁰ 8	6 ⁰ 51	10 ⁰ 23	5 ⁰ 1	1 ⁰ 25	9 ⁰ 45	24 ⁰ 18	22 ⁰ 58	13 ⁰ 37	6 ⁰ 36	S 13	
M 14	7 34 30	23 ⁰⁵ 58'49	23 ⁰ 38	21 ⁰ 14	6 ⁰ 3	14 ⁰ 55	6 ⁰ 47	10 ⁰ 26	5 ⁰ 2	1 ⁰ 27	9 ⁰ 47	24 ⁰ 8	22 ⁰ 55	13 ⁰ 44	6 ⁰ 39	M 14	
T 15	7 38 26	24 ⁰⁵ 59'57	7 ⁰⁴ ♂38	22 ⁰ 52	7 ⁰ 18	15 ⁰ 43	6 ⁰ 44	10 ⁰ 30	5 ⁰ 4	1 ⁰ 29	9 ⁰ 49	23 ⁰ 58	22 ⁰ 51	13 ⁰ 50	6 ⁰ 42	T 15	
W 16	7 42 23	26 ⁰ 1'05	21 ⁰ 10	24 ⁰ 30	8 ⁰ 33	16 ⁰ 30	6 ⁰ 41	10 ⁰ 33	5 ⁰ 5	1 ⁰ 31	9 ⁰ 51	23 ⁰ 51	22 ⁰ 48	13 ⁰ 57	6 ⁰ 46	W 16	
T 17	7 46 20	27 ⁰ 2'11	4 ⁰⁴ Y15	26 ⁰ 9	9 ⁰ 48	17 ⁰ 17	6 ⁰ 38	10 ⁰ 37	5 ⁰ 7	1 ⁰ 33	9 ⁰ 53	23 ⁰ 46	22 ⁰ 45	14 ⁰ 4	6 ⁰ 49	T 17	
F 18	7 50 16	28 ⁰ 3'17	16 ⁰ 53	27 ⁰ 49	11 ⁰ 4	18 ⁰ 5	6 ⁰ 36	10 ⁰ 40	5 ⁰ 9	1 ⁰ 35	9 ⁰ 55	23 ⁰ 44	22 ⁰ 42	14 ⁰ 10	6 ⁰ 52	F 18	
S 19	7 54 13	29 ⁰ 4'22	29 ⁰ 11	29 ⁰ 29	12 ⁰ 19	18 ⁰ 52	6 ⁰ 33	10 ⁰ 43	5 ⁰ 11	1 ⁰ 37	9 ⁰ 57	23 ⁰ D43	22 ⁰ 39	14 ⁰ 17	6 ⁰ 55	S 19	
S 20	7 58 9	0 ⁰⁶ 5'26	11 ⁰⁸ 13	1 ⁰⁶ 10	13 ⁰ 34	19 ⁰ 40	6 ⁰ 31	10 ⁰ 46	5 ⁰ 12	1 ⁰ 39	9 ⁰ 59	23 ⁰ 43	22 ⁰ 35	14 ⁰ 24	6 ⁰ 59	S 20	
M 21	8 2 6	1 ⁰ 6'30	23 ⁰ 5	2 ⁰⁵ 1	14 ⁰ 49	20 ⁰ 27	6 ⁰ 29	10 ⁰ 49	5 ⁰ 14	1 ⁰ 41	10 ⁰ 1	23 ⁰ R44	22 ⁰ 32	14 ⁰ 30	7 ⁰ 2	M 21	
T 22	8 6 2	2 ⁰ 7'32	4 ⁰² II52	4 ⁰³ 3	16 ⁰ 4	21 ⁰ 15	6 ⁰ 27	10 ⁰ 52	5 ⁰ 16	1 ⁰ 43	10 ⁰ 3	23 ⁰ 43	22 ⁰ 29	14 ⁰ 37	7 ⁰ 5	T 22	
W 23	8 9 59	3 ⁰ 8'34	16 ⁰ 39	6 ⁰ 15	17 ⁰ 20	22 ⁰ 2	6 ⁰ 25	10 ⁰ 55	5 ⁰ 18	1 ⁰ 45	10 ⁰ 5	23 ⁰ 40	22 ⁰ 26	14 ⁰ 44	7 ⁰ 9	W 23	
T 24	8 13 55	4 ⁰ 9'35	28 ⁰ 31	7 ⁰ 58	18 ⁰ 35	22 ⁰ 49	6 ⁰ 24	10 ⁰ 57	5 ⁰ 20	1 ⁰ 47	10 ⁰ 7	23 ⁰ 35	22 ⁰ 23	14 ⁰ 50	7 ⁰ 12	T 24	
F 25	8 17 52	5 ⁰ 10'34	10 ⁰³ 30	9 ⁰ 41	19 ⁰ 50	23 ⁰ 37	6 ⁰ 23	11 ⁰ 0	5 ⁰ 22	1 ⁰ 49	10 ⁰ 9	23 ⁰ 27	22 ⁰ 20	14 ⁰ 57	7 ⁰ 15	F 25	
S 26	8 21 49	6 ⁰ 11'33	22 ⁰ 39	11 ⁰ 25	21 ⁰ 5	24 ⁰ 24	6 ⁰ 22	11 ⁰ 2	5 ⁰ 24	1 ⁰ 51	10 ⁰ 11	23 ⁰ 16	22 ⁰ 16	15 ⁰ 4	7 ⁰ 19	S 26	
S 27	8 25 45	7 ⁰ 12'31	5 ⁰² 0	13 ⁰ 9	22 ⁰ 20	25 ⁰ 12	6 ⁰ 21	11 ⁰ 5	5 ⁰ 26	1 ⁰ 53	10 ⁰ 13	23 ⁰ 3	22 ⁰ 13	15 ⁰ 10	7 ⁰ 22	S 27	
M 28	8 29 42	8 ⁰ 13'28	17 ⁰ 33	14 ⁰ 54	23 ⁰ 35	25 ⁰ 59	6 ⁰ 20	11 ⁰ 7	5 ⁰ 29	1 ⁰ 55	10 ⁰ 15	22 ⁰ 50	22 ⁰ 10	15 ⁰ 17	7 ⁰ 26	M 28	
T 29	8 33 38	9 ⁰ 14'24	0 ⁰⁴ 18	16 ⁰ 39	24 ⁰ 51	26 ⁰ 47	6 ⁰ 20	11 ⁰ 9	5 ⁰ 31	1 ⁰ 58	10 ⁰ 17	22 ⁰ 36	22 ⁰ 7	15 ⁰ 24	7 ⁰ 29	T 29	
W 30	8 37 35	10 ⁰ 15'19	13 ⁰ 14	18 ⁰ 24	26 ⁰ 6	27 ⁰ 34	6 ⁰ D20	11 ⁰ 11	5 ⁰ 33	2 ⁰ 0	10 ⁰ 19	22 ⁰ 25	22 ⁰ 4	15 ⁰ 30	7 ⁰ 33	W 30	
T 31	8 41 31	11 ⁰⁶ 16'13	26 ⁰⁴ M22	20 ⁰⁶ 10	27 ⁰³ 21	28 ⁰⁶ 21	6 ⁰ II20	11 ⁰⁴ M13	5 ⁰⁴ Y35	2 ⁰⁴ ♂ 2	10 ⁰³ 21	22 ⁰⁴ M15	22 ⁰⁴ M 1	15 ⁰² II37	7 ⁰⁴ ♂36	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
T 1	23s 0	9n42	5 s 7	24s15	0s49	22s21	0n42	20s12	1 s 9	20n54	0s42	12s27	2n20	1n15	0s42	11s40	0s37	19s47	3n20	19s 1	18s40	20n37	4s26	5n13	
W 2	22 55	5 31	5 5	24 20	0 55	22 29	0 39	20 1	1 9	20 54	0 42	12 28	2 21	1 15	0 42	11 39	0 37	19 47	3 20	18 59	18 39	20 38	4 26	5 13	
T 3	22 49	1 1	4 47	24 24	1 1	22 36	0 37	19 49	1 9	20 53	0 42	12 29	2 21	1 15	0 42	11 39	0 37	19 47	3 19	18 58	18 39	20 38	4 25	5 13	
F 4	22 43	3s38	4 14	24 26	1 7	22 42	0 34	19 37	1 9	20 52	0 42	12 31	2 21	1 16	0 42	11 38	0 37	19 47	3 19	18 57	18 38	20 38	4 24	5 12	
S 5	22 37	8 12	3 27	24 28	1 12	22 48	0 32	19 25	1 9	20 52	0 42	12 32	2 21	1 16	0 42	11 37	0 37	19 47	3 19	18 57	18 37	20 38	4 23	5 12	
S 6	22 30	12 28	2 27	24 27	1 17	22 53	0 29	19 12	1 8	20 51	0 41	12 33	2 21	1 17	0 42	11 37	0 37	19 47	3 19	18 57	18 36	20 38	4 23	5 12	
M 7	22 22	16 10	1 16	24 26	1 23	22 58	0 27	19 0	1 8	20 51	0 41	12 34	2 22	1 17	0 42	11 36	0 37	19 47	3 19	18 57	18 35	20 38	4 22	5 11	
T 8	22 15	18 58	0n 1	24 23	1 27	23 1	0 24	18 47	1 8	20 50	0 41	12 35	2 22	1 18	0 42	11 35	0 37	19 47	3 19	18 57	18 35	20 38	4 21	5 11	
W 9	22 6	20 35	1 19	24 19	1 32	23 4	0 22	18 34	1 8	20 50	0 41	12 36	2 22	1 19	0 42	11 35	0 37	19 47	3 19	18 57	18 34	20 38	4 20	5 11	
T 10	21 58	20 47	2 32	24 13	1 36	23 7	0 19	18 20	1 8	20 49	0 40	12 37	2 22	1 19	0 42	11 34	0 37	19 47	3 19	18 56	18 33	20 38	4 20	5 11	
F 11	21 48	19 31	3 36	24 6	1 41	23 8	0 16	18 7	1 8	20 49	0 40	12 38	2 22	1 20	0 42	11 34	0 37	19 47	3 19	18 55	18 32	20 38	4 19	5 10	
S 12	21 39	16 54	4 24	23 57	1 44	23 9	0 14	17 53	1 7	20 48	0 40	12 39	2 23	1 20	0 42	11 33	0 37	19 47	3 19	18 53	18 31	20 38	4 18	5 10	
S 13	21 29	13 13	4 54	23 47	1 48	23 10	0 11	17 39	1 7	20 48	0 40	12 40	2 23	1 21	0 42	11 32	0 37	19 47	3 19	18 50	18 31	20 38	4 17	5 10	
M14	21 19	8 51	5 5	23 36	1 51	23 9	0 9	17 25	1 7	20 48	0 39	12 41	2 23	1 22	0 42	11 32	0 37	19 46	3 19	18 48	18 30	20 37	4 16	5 10	
T 15	21 8	4 7	4 56	23 23	1 54	23 8	0 6	17 11	1 7	20 47	0 39	12 42	2 23	1 22	0 42	11 31	0 37	19 46	3 18	18 46	18 29	20 37	4 15	5 9	
W16	20 56	0n39	4 31	23 8	1 57	23 6	0 4	16 57	1 7	20 47	0 39	12 43	2 23	1 23	0 42	11 30	0 37	19 46	3 18	18 44	18 28	20 37	4 14	5 9	
T 17	20 45	5 15	3 53	22 52	1 59	23 3	0 1	16 42	1 6	20 47	0 39	12 44	2 24	1 24	0 42	11 29	0 37	19 46	3 18	18 43	18 27	20 37	4 13	5 9	
F 18	20 33	9 28	3 4	22 34	2 1	23 0	0s 1	16 27	1 6	20 46	0 39	12 44	2 24	1 24	0 42	11 29	0 37	19 46	3 18	18 42	18 27	20 37	4 12	5 9	
S 19	20 20	13 10	2 7	22 15	2 3	22 56	0 4	16 13	1 6	20 46	0 38	12 45	2 24	1 25	0 42	11 28	0 37	19 46	3 18	18 42	18 26	20 37	4 11	5 8	
S 20	20 8	16 15	1 6	21 55	2 4	22 51	0 7	15 57	1 6	20 46	0 38	12 46	2 24	1 26	0 42	11 27	0 37	19 46	3 18	18 42	18 25	20 37	4 10	5 8	
M21	19 55	18 36	0 3	21 33	2 5	22 46	0 9	15 42	1 5	20 46	0 38	12 47	2 25	1 27	0 42	11 27	0 37	19 46	3 18	18 42	18 24	20 37	4 9	5 8	
T 22	19 41	20 8	0s59	21 9	2 5	22 40	0 12	15 27	1 5	20 46	0 38	12 47	2 25	1 27	0 42	11 26	0 37	19 46	3 18	18 42	18 23	20 37	4 8	5 8	
W23	19 27	20 48	1 59	20 44	2 5	22 33	0 14	15 11	1 5	20 46	0 37	12 48	2 25	1 28	0 42	11 25	0 37	19 46	3 18	18 41	18 23	20 37	4 7	5 8	
T 24	19 13	20 32	2 54	20 17	2 5	22 25	0 17	14 55	1 5	20 46	0 37	12 49	2 25	1 29	0 41	11 24	0 37	19 46	3 18	18 40	18 22	20 37	4 6	5 7	
F 25	18 58	19 20	3 42	19 49	2 4	22 17	0 19	14 40	1 4	20 46	0 37	12 49	2 25	1 30	0 41	11 24	0 37	19 46	3 18	18 38	18 21	20 37	4 5	5 7	
S 26	18 43	17 16	4 20	19 19	2 3	22 8	0 21	14 24	1 4	20 46	0 37	12 50	2 26	1 31	0 41	11 23	0 37	19 45	3 18	18 35	18 20	20 37	4 4	5 7	
S 27	18 28	14 23	4 46	18 48	2 1	21 59	0 24	14 7	1 4	20 46	0 36	12 50	2 26	1 32	0 41	11 22	0 37	19 45	3 18	18 32	18 19	20 37	4 3	5 7	
M28	18 12	10 49	5 0	18 15	1 59	21 48	0 26	13 51	1 3	20 46	0 36	12 51	2 26	1 33	0 41	11 21	0 37	19 45	3 18	18 29	18 18	20 37	4 2	5 7	
T 29	17 56	6 43	4 58	17 41	1 56	21 37	0 29	13 35	1 3	20 46	0 36	12 51	2 26	1 33	0 41	11 21	0 37	19 45	3 18	18 25	18 17	20 37	4 1	5 6	
W30	17 40	2 15	4 42	17 5	1 52	21 26	0 31	13 18	1 3	20 47	0 36	12 52	2 27	1 34	0 41	11 20	0 37	19 45	3 18	18 22	18 10	20 36	4 0	5 6	
T 31	17s24	2s23	4s10	16s28	1s48	21s14	0s33	13s 1	1s 3	20n47	0s35	12s52	2n27	1n35	0s41	11s19	0s37	19s45	3n18	18s20	18s16	20n36	3s59	5n	

Julian Day Number = 2456293.5, Delta T = 66.91 sec

Ecliptic obliquity = $23^{\circ}26'09''$, Nutation = $0^{\circ}00'15''$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°55'19, Lahiri = 24°02'19

ASTRODIENST EPHEMERIS for the year 2013

geocentric

FEBRUARY 2013

00:00 UT

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

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	17s 7	6s 58	3s 24	15s 50	1s 43	21s 1	0s 35	12s 44	1s 2	20n 47	0s 35	12s 52	2n 27	1n 36	0s 41	F 1
S 2	16 50	11 16	2 27	15 10	1 38	20 47	0 38	12 27	1 2	20 47	0 35	12 53	2 27	1 37	0 41	S 2
S 3	16 32	15 3	1 20	14 29	1 32	20 33	0 40	12 10	1 2	20 48	0 35	12 53	2 28	1 38	0 41	S 3
M 4	16 14	18 3	0 7	13 47	1 25	20 19	0 42	11 53	1 1	20 48	0 35	12 53	2 28	1 39	0 41	M 4
T 5	15 56	20 0	1n 7	13 4	1 18	20 3	0 44	11 36	1 1	20 48	0 34	12 53	2 28	1 40	0 41	T 5
W 6	15 38	20 42	2 18	12 20	1 10	19 48	0 46	11 18	1 1	20 49	0 34	12 54	2 28	1 41	0 41	W 6
T 7	15 19	20 2	3 21	11 35	1 1	19 31	0 48	11 1	1 0	20 49	0 34	12 54	2 29	1 42	0 41	T 7
F 8	15 0	18 3	4 11	10 50	0 51	19 14	0 50	10 43	1 0	20 50	0 34	12 54	2 29	1 43	0 41	F 8
S 9	14 41	14 54	4 45	10 4	0 41	18 56	0 52	10 26	0 59	20 50	0 33	12 54	2 29	1 44	0 41	S 9
S 10	14 22	10 53	5 0	9 18	0 30	18 38	0 54	10 8	0 59	20 51	0 33	12 54	2 29	1 45	0 41	S 10
M 11	14 2	6 18	4 55	8 32	0 18	18 20	0 56	9 50	0 59	20 52	0 33	12 54	2 30	1 47	0 41	M 11
T 12	13 42	1 31	4 34	7 47	0 6	18 0	0 58	9 32	0 58	20 52	0 33	12 54	2 30	1 48	0 41	T 12
W 13	13 22	3n 13	3 57	7 2	0n 7	17 41	0 59	9 14	0 58	20 53	0 33	12 54	2 30	1 49	0 41	W 13
T 14	13 2	7 40	3 9	6 18	0 21	17 21	1 1	8 56	0 57	20 53	0 32	12 54	2 30	1 50	0 41	T 14
F 15	12 42	11 38	2 13	5 36	0 36	17 0	1 3	8 37	0 57	20 54	0 32	12 54	2 30	1 51	0 41	F 15
S 16	12 21	15 0	1 11	4 55	0 50	16 39	1 4	8 19	0 57	20 55	0 32	12 54	2 31	1 52	0 41	S 16
S 17	12 0	17 38	0 8	4 17	1 6	16 17	1 6	8 1	0 56	20 56	0 32	12 54	2 31	1 53	0 41	S 17
M 18	11 39	19 28	0s 55	3 42	1 21	15 55	1 8	7 42	0 56	20 57	0 31	12 53	2 31	1 54	0 41	M 18
T 19	11 18	20 26	1 55	3 9	1 37	15 32	1 9	7 24	0 55	20 57	0 31	12 53	2 31	1 56	0 41	T 19
W 20	10 56	20 30	2 50	2 40	1 52	15 9	1 10	7 5	0 55	20 58	0 31	12 53	2 32	1 57	0 41	W 20
T 21	10 35	19 38	3 38	2 15	2 7	14 46	1 12	6 47	0 55	20 59	0 31	12 53	2 32	1 58	0 41	T 21
F 22	10 13	17 54	4 17	1 54	2 22	14 22	1 13	6 28	0 54	21 0	0 31	12 52	2 32	1 59	0 41	F 22
S 23	9 51	15 19	4 45	1 37	2 36	13 58	1 14	6 9	0 54	21 1	0 30	12 52	2 32	2 0	0 41	S 23
S 24	9 29	11 59	4 59	1 25	2 50	13 33	1 15	5 50	0 53	21 2	0 30	12 52	2 33	2 2	0 41	S 24
M 25	9 7	8 3	4 59	1 18	3 2	13 8	1 17	5 32	0 53	21 3	0 30	12 51	2 33	2 3	0 41	M 25
T 26	8 44	3 40	4 44	1 16	3 13	12 43	1 18	5 13	0 52	21 4	0 30	12 51	2 33	2 4	0 41	T 26
W 27	8 22	0s 58	4 13	1 19	3 23	12 17	1 19	4 54	0 52	21 5	0 30	12 50	2 33	2 5	0 41	W 27
T 28	7s 59	5s 38	3s 27	1s 26	3n 31	11s 52	1s 20	4s 35	0s 51	21n 6	0s 29	12s 50	2n 34	2n 7	0s 41	T 28

Julian Day Number = 2456324.5, Delta T = 66.94 sec
 Ecliptic obliquity = 23°26'10", Nutation = 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°55'23", Lahiri = 24°02'24"

ASTRODIENST EPHEMERIS for the year 2013

geocentric

MARCH 2013

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 35 51	10 ^h 33'42"	19 ^h 54'	17°R27	3 ^h 38'	21 ^h 12'	7 ^h 45'	11°R26	6 ^h 56'	3 ^h 7'	11 ^h 7'	19°R10	20 ^h 28'	18 ^h 50'	9 ^h 26'	F 1
S 2	10 39 48	11°33'54"	3 ^h 43'	16 ^h 35'	4°53'	21°59'	7°51'	11 ^h 25'	6°59'	3°9'	11°8'	19 ^h 7'	20°25'	18°57'	9°30'	S 2
S 3	10 43 44	12°34'04"	17°39'	15°39'	6°8'	22°46'	7°57'	11°24'	7°2'	3°12'	11°10'	19°D 6	20°22'	19°3'	9°34'	S 3
M 4	10 47 41	13°34'13"	1 ^h 39'	14°40'	7°23'	23°33'	8°3'	11°22'	7°5'	3°14'	11°11'	19°6'	20°19'	19°10'	9°38'	M 4
T 5	10 51 38	14°34'20"	15°44'	13°38'	8°38'	24°20'	8°9'	11°21'	7°9'	3°16'	11°12'	19°R 6	20°16'	19°17'	9°42'	T 5
W 6	10 55 34	15°34'26"	29°52'	12°36'	9°53'	25°7'	8°16'	11°20'	7°12'	3°18'	11°13'	19°5'	20°13'	19°23'	9°46'	W 6
T 7	10 59 31	16°34'30"	14 ^h 3'	11°36'	11°8'	25°54'	8°22'	11°18'	7°15'	3°21'	11°14'	19°2'	20°9'	19°30'	9°50'	T 7
F 8	11 3 27	17°34'33"	28°13'	10°37'	12°23'	26°41'	8°29'	11°16'	7°18'	3°23'	11°15'	18°57'	20°6'	19°37'	9°53'	F 8
S 9	11 7 24	18°34'34"	12 ^h 20'	9°42'	13°38'	27°27'	8°36'	11°14'	7°22'	3°25'	11°17'	18°49'	20°3'	19°43'	9°57'	S 9
S 10	11 11 20	19°34'33"	26°21'	8°51'	14°53'	28°14'	8°43'	11°13'	7°25'	3°27'	11°18'	18°39'	20°0'	19°50'	10°1'	S 10
M 11	11 15 17	20°34'31"	10 ^h 10'	8°5'	16°8'	29°1'	8°50'	11°11'	7°28'	3°29'	11°19'	18°29'	19°57'	19°57'	10°5'	M 11
T 12	11 19 13	21°34'26"	23°44'	7°25'	17°22'	29°47'	8°57'	11°9'	7°31'	3°32'	11°20'	18°20'	19°53'	20°3'	10°9'	T 12
W 13	11 23 10	22°34'20"	6 ^h 59'	6°51'	18°37'	0 ^h 34'	9°4'	11°6'	7°35'	3°34'	11°21'	18°11'	19°50'	20°10'	10°13'	W 13
T 14	11 27 7	23°34'11"	19°55'	6°24'	19°52'	1°21'	9°12'	11°4'	7°38'	3°36'	11°21'	18°5'	19°47'	20°17'	10°16'	T 14
F 15	11 31 3	24°34'01"	2 ^h 32'	6°3'	21°7'	2°7'	9°20'	11°2'	7°41'	3°38'	11°22'	18°2'	19°44'	20°23'	10°20'	F 15
S 16	11 35 0	25°33'48"	14°51'	5°48'	22°22'	2°54'	9°28'	10°59'	7°45'	3°40'	11°23'	18°D 0	19°41'	20°30'	10°24'	S 16
S 17	11 38 56	26°33'33"	26°56'	5°40'	23°36'	3°40'	9°36'	10°57'	7°48'	3°42'	11°24'	18°1'	19°38'	20°37'	10°28'	S 17
M 18	11 42 53	27°33'16"	8 ^h 51'	5°D38'	24°51'	4°27'	9°44'	10°54'	7°52'	3°45'	11°25'	18°2'	19°34'	20°43'	10°31'	M 18
T 19	11 46 49	28°32'57"	20°41'	5°42'	26°6'	5°13'	9°52'	10°51'	7°55'	3°47'	11°26'	18°3'	19°31'	20°50'	10°35'	T 19
W 20	11 50 46	29°32'36"	2 ^h 31'	5°52'	27°21'	6°0'	10°0'	10°49'	7°58'	3°49'	11°26'	18°R 3	19°28'	20°57'	10°39'	W 20
T 21	11 54 42	0 ^h 32'12"	14°26'	6°7'	28°35'	6°46'	10°9'	10°46'	8°2'	3°51'	11°27'	18°2'	19°25'	21°3'	10°43'	T 21
F 22	11 58 39	1°31'46"	26°31'	6°27'	29°50'	7°33'	10°18'	10°43'	8°5'	3°53'	11°28'	17°59'	19°22'	21°10'	10°46'	F 22
S 23	12 2 36	2°31'18"	8 ^h 51'	6°52'	1°Y 5	8°19'	10°26'	10°40'	8°9'	3°55'	11°28'	17°54'	19°18'	21°17'	10°50'	S 23
S 24	12 6 32	3°30'47"	21°29'	7°22'	2°19'	9°5'	10°35'	10°37'	8°12'	3°57'	11°29'	17°47'	19°15'	21°23'	10°54'	S 24
M 25	12 10 29	4°30'14"	4 ^h 28'	7°56'	3°34'	9°51'	10°44'	10°34'	8°15'	3°59'	11°30'	17°40'	19°12'	21°30'	10°57'	M 25
T 26	12 14 25	5°29'39"	17°47'	8°35'	4°48'	10°37'	10°54'	10°30'	8°19'	4°1'	11°30'	17°32'	19°9'	21°37'	11°1'	T 26
W 27	12 18 22	6°29'02"	1 ^h 25'	9°17'	6°3'	11°24'	11°3'	10°27'	8°22'	4°3'	11°31'	17°26'	19°6'	21°43'	11°4'	W 27
T 28	12 22 18	7°28'23"	15°20'	10°3'	7°18'	12°10'	11°12'	10°24'	8°26'	4°5'	11°31'	17°21'	19°3'	21°50'	11°8'	T 28
F 29	12 26 15	8°27'42"	29°28'	10°52'	8°32'	12°56'	11°22'	10°20'	8°29'	4°7'	11°32'	17°17'	18°59'	21°57'	11°12'	F 29
S 30	12 30 11	9°26'59"	13 ^h 45'	11°44'	9°47'	13°42'	11°31'	10°17'	8°33'	4°9'	11°32'	17°D16	18°56'	22°3'	11°15'	S 30
S 31	12 34 8	10 ^h Y26'14"	28 ^h 5'	12 ^h 40'	11°Y 1	14°Y28'	11 ^h 41'	10 ^h 13'	8°Y36'	4 ^h 11'	11 ^h 33'	17 ^h 17'	18 ^h 53'	22 ^h 10'	11 ^h 19'	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	7s36	10s 4	2s29	1s38	3n36	11s25	1s20	4s16	0s51	21n 7	0s29	12s49	2n34	2n 8	0s41	10s56	0s37	19s42	3n17	17s31	17s52	20n32	3s21	5n 3					
S 2	7 14	14 1	1 21	1 55	3 40	10 59	1 21	3 57	0 50	21 8	0 29	12 49	2 34	2 9	0 40	10 55	0 37	19 42	3 17	17 30	17 51	20 31	3 20	5 3					
S 3	6 51	17 13	0 8	2 15	3 42	10 32	1 22	3 38	0 50	21 10	0 29	12 48	2 34	2 10	0 40	10 54	0 37	19 42	3 17	17 30	17 50	20 31	3 18	5 3					
M 4	6 28	19 24	1n 6	2 38	3 41	10 5	1 23	3 19	0 49	21 11	0 29	12 48	2 34	2 12	0 40	10 53	0 37	19 42	3 17	17 30	17 49	20 31	3 17	5 3					
T 5	6 4	20 24	2 17	3 4	3 39	9 37	1 23	3 0	0 49	21 12	0 28	12 47	2 35	2 13	0 40	10 53	0 37	19 42	3 17	17 30	17 49	20 31	3 15	5 3					
W 6	5 41	20 7	3 19	3 32	3 34	9 9	1 24	2 41	0 48	21 13	0 28	12 46	2 35	2 14	0 40	10 52	0 37	19 42	3 17	17 30	17 48	20 30	3 14	5 3					
T 7	5 18	18 33	4 10	4 1	3 27	8 41	1 24	2 22	0 48	21 14	0 28	12 46	2 35	2 15	0 40	10 51	0 37	19 42	3 17	17 29	17 47	20 30	3 13	5 3					
F 8	4 55	15 52	4 45	4 31	3 19	8 13	1 25	2 3	0 47	21 16	0 28	12 45	2 35	2 17	0 40	10 50	0 37	19 41	3 17	17 27	17 46	20 30	3 11	5 2					
S 9	4 31	12 15	5 2	5 1	3 9	7 45	1 25	1 44	0 47	21 17	0 28	12 44	2 36	2 18	0 40	10 49	0 37	19 41	3 17	17 25	17 45	20 30	3 10	5 2					
S 10	4 8	8 0	5 2	5 30	2 58	7 16	1 26	1 25	0 46	21 18	0 27	12 43	2 36	2 19	0 40	10 49	0 37	19 41	3 17	17 22	17 44	20 29	3 8	5 2					
M 11	3 44	3 23	4 43	5 59	2 45	6 47	1 26	1 6	0 46	21 19	0 27	12 43	2 36	2 21	0 40	10 48	0 37	19 41	3 17	17 20	17 43	20 29	3 7	5 2					
T 12	3 20	1n19	4 9	6 26	2 32	6 19	1 26	0 47	0 45	21 21	0 27	12 42	2 36	2 22	0 40	10 47	0 37	19 41	3 17	17 17	17 43	20 29	3 6	5 2					
W 13	2 57	5 52	3 22	6 51	2 18	5 49	1 26	0 28	0 45	21 22	0 27	12 41	2 36	2 23	0 40	10 46	0 37	19 41	3 17	17 15	17 42	20 29	3 4	5 2					
T 14	2 33	10 1	2 25	7 14	2 4	5 20	1 26	0 9	0 44	21 23	0 27	12 40	2 37	2 25	0 40	10 46	0 37	19 41	3 17	17 13	17 41	20 28	3 3	5 2					
F 15	2 9	13 38	1 22	7 36	1 49	4 51	1 26	0n10	0 44	21 25	0 26	12 39	2 37	2 26	0 40	10 45	0 37	19 41	3 17	17 12	17 40	20 28	3 1	5 2					
S 16	1 46	16 34	0 17	7 55	1 35	4 21	1 26	0 29	0 43	21 26	0 26	12 38	2 37	2 27	0 40	10 44	0 37	19 41	3 17	17 12	17 39	20 28	3 0	5 3					
S 17	1 22	18 41	0s48	8 12	1 20	3 51	1 26	0 48	0 43	21 27	0 26	12 37	2 37	2 29	0 40	10 43	0 37	19 41	3 17	17 12	17 38	20 27	2 58	5 3					
M 18	0 58	19 58	1 50	8 26	1 5	3 22	1 26	1 7	0 42	21 29	0 26	12 36	2 37	2 30	0 40	10 43	0 37	19 41	3 17	17 12	17 37	20 27	2 57	5 3					
T 19	0 35	20 20	2 47	8 38	0 51	2 52	1 26	1 26	0 42	21 30	0 26	12 35	2 37	2 31	0 40	10 42	0 37	19 41	3 17	17 12	17 37	20 27	2 56	5 3					
W 20	0 11	19 48	3 37	8 48	0 37	2 22	1 25	1 45	0 41	21 32	0 26	12 34	2 38	2 33	0 40	10 41	0 37	19 41	3 17	17 12	17 36	20 26	2 54	5 3					
T 21	0n13	18 23	4 18	8 55	0 23	1 52	1 25	2 4	0 41	21 33	0 25	12 33	2 38	2 34	0 40	10 40	0 37	19 40	3 17	17 12	17 35	20 26	2 53	5 3					
F 22	0 36	16 8	4 48	9 0	0 9	1 22	1 24	2 23	0 40	21 34	0 25	12 32	2 38	2 35	0 40	10 40	0 37	19 40	3 17	17 11	17 34	20 26	2 51	5 3					
S 23	1 0	13 8	5 5	9 3	0s 3	0 51	1 24	2 42	0 39	21 36	0 25	12 31	2 38	2 37	0 40	10 39	0 37	19 40	3 17	17 10	17 33	20 26	2 50	5 3					
S 24	1 24	9 28	5 8	9 3	0 16	0 21	1 23	3 0	0 39	21 37	0 25	12 30	2 38	2 38	0 40	10 38	0 37	19 40	3 17	17 8	17 32	20 25	2 48	5 3					
M 25	1 47	5 17	4 56	9 1	0 28	0n 9	1 23	3 19	0 38	21 39	0 25	12 29	2 38	2 40	0 40	10 37	0 37	19 40	3 17	17 6	17 31	20 25	2 47	5 3					
T 26	2 11	0 44	4 27	8 58	0 39	0 39	1 22	3 38	0 38	21 40	0 24	12 28	2 39	2 41	0 40	10 37	0 37	19 40	3 17	17 4	17 31	20 25	2 46	5 3					
W 27	2 34	3s59	3 43	8 52	0 50	1 9	1 21	3 56	0 37	21 42	0 24	12 26	2 39	2 42	0 40	10 36	0 37	19 40	3 17	17 2	17 30	20 24	2 44	5 3					
T 28	2 58	8 34	2 45	8 44	1 1	1 40	1 20	4 15	0 37	21 43	0 24	12 25	2 39	2 44	0 40	10 35	0 37	19 40	3 17	17 0	17 29	20 24	2 43	5 3					
F 29	3 21	12 46	1 35	8 35	1 10	2 10	1 20	4 33	0 36	21 45	0 24	12 24	2 39	2 45	0 40	10 35	0 37	19 40	3 17	17 0	17 28	20 24	2 41	5 3					
S 30	3 45	16 16	0 19	8 23	1 20	2 40	1 19	4 52	0 35	21 46	0 24	12 23	2 39	2 46	0 40	10 34	0 37	19 40	3 17	16 59	17 27	20 23	2 40	5 3					
S 31	4n 8	18s47	0n59	8s10	1s29	3n10	1s18	5n10	0s35	21n48	0s24	12s22	2n39	2n48	0s40	10s33	0s37	19s40	3n17	16s59	17s26	20n23	2s39	5n 3					

Julian Day Number = 2456352.5, Delta T = 66.97 sec

Ecliptic obliquity = 23°26'10", Nutation = 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°55'27", Lahiri = 24°02'27"

ASTRODIENST EPHEMERIS for the year 2013

geocentric

APRIL 2013

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 38 4	11°25'27	12°25'25	13°38'38	12°16'16	15°14'14	11°51'51	10°R 9	8°Y39	4°K13	11°33'33	17°M18	18°M50	22°II17	11°K22	M 1
T 2	12 42 1	12°24'39	26°41	14°40	13°30	16° 0	12° 1	10°M 6	8°43	4°15	11°33	17°19	18°47	22°23	11°25	T 2
W 3	12 45 58	13°23'49	10°35'52	15°43	14°45	16°45	12°11	10° 2	8°46	4°17	11°34	17°R20	18°44	22°30	11°29	W 3
T 4	12 49 54	14°22'57	24°56	16°50	15°59	17°31	12°21	9°58	8°50	4°19	11°34	17°20	18°40	22°37	11°32	T 4
F 5	12 53 51	15°22'04	8°55'52	17°59	17°14	18°17	12°31	9°54	8°53	4°20	11°34	17°18	18°37	22°43	11°36	F 5
S 6	12 57 47	16°21'08	22°37	19°10	18°28	19° 3	12°42	9°50	8°57	4°22	11°34	17°14	18°34	22°50	11°39	S 6
S 7	13 1 44	17°20'11	6°K12	20°23	19°42	19°48	12°52	9°46	9° 0	4°24	11°35	17°10	18°31	22°57	11°42	S 7
M 8	13 5 40	18°19'12	19°34	21°38	20°57	20°34	13° 3	9°42	9° 3	4°26	11°35	17° 5	18°28	23° 3	11°46	M 8
T 9	13 9 37	19°18'11	2°Y42	22°55	22°11	21°20	13°13	9°38	9° 7	4°28	11°35	17° 1	18°24	23°10	11°49	T 9
W10	13 13 33	20°17'08	15°36	24°15	23°26	22° 5	13°24	9°34	9°10	4°29	11°35	16°57	18°21	23°17	11°52	W10
T 11	13 17 30	21°16'03	28°15	25°36	24°40	22°51	13°35	9°30	9°13	4°31	11°35	16°55	18°18	23°23	11°55	T 11
F 12	13 21 27	22°14'56	10°B40	26°59	25°54	23°36	13°46	9°26	9°17	4°33	11°35	16°53	18°15	23°30	11°58	F 12
S 13	13 25 23	23°13'48	22°52	28°24	27° 9	24°21	13°57	9°21	9°20	4°34	11°R35	16°D53	18°12	23°37	12° 2	S 13
S 14	13 29 20	24°12'37	4°II53	29°50	28°23	25° 7	14° 8	9°17	9°24	4°36	11°35	16°54	18° 9	23°43	12° 5	S 14
M15	13 33 16	25°11'23	16°47	1°Y19	29°37	25°52	14°19	9°13	9°27	4°38	11°35	16°56	18° 5	23°50	12° 8	M15
T 16	13 37 13	26°10'08	28°37	2°49	0°B51	26°37	14°31	9° 8	9°30	4°39	11°35	16°58	18° 2	23°57	12°11	T 16
W17	13 41 9	27° 8'51	10°B27	4°21	2° 6	27°23	14°42	9° 4	9°34	4°41	11°35	16°59	17°59	24° 3	12°14	W17
T 18	13 45 6	28° 7'31	22°22	5°54	3°20	28° 8	14°54	9° 0	9°37	4°42	11°35	17° 0	17°56	24°10	12°17	T 18
F 19	13 49 2	29° 6'09	4°K26	7°30	4°34	28°53	15° 5	8°55	9°40	4°44	11°35	17°R 0	17°53	24°17	12°20	F 19
S 20	13 52 59	0°B 4'45	16°46	9° 7	5°48	29°38	15°17	8°51	9°43	4°45	11°34	16°59	17°49	24°23	12°23	S 20
S 21	13 56 56	1° 3'19	29°23	10°45	7° 2	0°B23	15°28	8°46	9°47	4°47	11°34	16°58	17°46	24°30	12°25	S 21
M22	14 0 52	2° 1'50	12°M23	12°25	8°16	1° 8	15°40	8°42	9°50	4°48	11°34	16°56	17°43	24°37	12°28	M22
T 23	14 4 49	3° 0'19	25°47	14° 7	9°30	1°53	15°52	8°37	9°53	4°50	11°34	16°54	17°40	24°43	12°31	T 23
W24	14 8 45	3°58'46	9°B35	15°51	10°45	2°38	16° 4	8°33	9°56	4°51	11°33	16°52	17°37	24°50	12°34	W24
T 25	14 12 42	4°57'12	23°45	17°36	11°59	3°22	16°16	8°28	9°59	4°52	11°33	16°51	17°34	24°57	12°36	T 25
F 26	14 16 38	5°55'35	8°M13	19°23	13°13	4° 7	16°28	8°24	10° 3	4°54	11°33	16°50	17°30	25° 3	12°39	F 26
S 27	14 20 35	6°53'57	22°54	21°12	14°27	4°52	16°40	8°19	10° 6	4°55	11°32	16°D50	17°27	25°10	12°42	S 27
S 28	14 24 31	7°52'17	7°K41	23° 2	15°41	5°36	16°52	8°14	10° 9	4°56	11°32	16°51	17°24	25°17	12°44	S 28
M29	14 28 28	8°50'35	22°27	24°54	16°55	6°21	17° 5	8°10	10°12	4°58	11°31	16°51	17°21	25°23	12°47	M29
T 30	14 32 25	9°B48'52	7°B 5	26°Y48	18°B 9	7°B 6	17°II17	8°M 5	10°Y15	4°K59	11°B31	16°M52	17°M18	25°II30	12°K49	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	4n31	20s 5	2n13	7s55	1s37	3n40	1s17	5n28	0s34	21n49	0s23	12s20	2n39	2n49	0s40	10s32	0s37	19s40	3n17	17s 0	17s25	20n22	2s37	5n 3			
T 2	4 54	20 5	3 19	7 39	1 44	4 10	1 16	5 46	0 34	21 51	0 23	12 19	2 40	2 50	0 40	10 32	0 37	19 40	3 17	17 0	17 24	20 22	2 36	5 3			
W 3	5 17	18 49	4 12	7 21	1 52	4 40	1 14	6 5	0 33	21 52	0 23	12 18	2 40	2 52	0 40	10 31	0 37	19 40	3 17	17 0	17 24	20 22	2 34	5 4			
T 4	5 40	16 24	4 49	7 1	1 58	5 10	1 13	6 23	0 32	21 54	0 23	12 16	2 40	2 53	0 40	10 30	0 37	19 40	3 17	17 0	17 23	20 21	2 33	5 4			
F 5	6 3	13 4	5 9	6 40	2 4	5 39	1 12	6 41	0 32	21 55	0 23	12 15	2 40	2 54	0 40	10 30	0 37	19 40	3 17	17 0	17 22	20 21	2 32	5 4			
S 6	6 26	9 4	5 11	6 17	2 10	6 9	1 11	6 58	0 31	21 56	0 23	12 14	2 40	2 56	0 40	10 29	0 37	19 40	3 17	16 59	17 21	20 21	2 30	5 4			
S 7	6 48	4 39	4 56	5 53	2 15	6 38	1 9	7 16	0 31	21 58	0 23	12 12	2 40	2 57	0 40	10 29	0 37	19 40	3 17	16 57	17 20	20 20	2 29	5 4			
M 8	7 11	0 5	4 24	5 27	2 19	7 8	1 8	7 34	0 30	21 59	0 22	12 11	2 40	2 58	0 40	10 28	0 37	19 40	3 17	16 56	17 19	20 20	2 28	5 4			
T 9	7 33	4n25	3 39	5 0	2 23	7 37	1 6	7 52	0 29	22 1	0 22	12 10	2 40	3 0	0 40	10 27	0 37	19 40	3 17	16 55	17 18	20 19	2 26	5 4			
W10	7 56	8 39	2 44	4 32	2 27	8 6	1 5	8 9	0 29	22 2	0 22	12 8	2 40	3 1	0 40	10 27	0 37	19 40	3 17	16 54	17 17	20 19	2 25	5 4			
T 11	8 18	12 25	1 41	4 2	2 30	8 34	1 3	8 27	0 28	22 4	0 22	12 7	2 40	3 2	0 40	10 26	0 38	19 40	3 17	16 53	17 17	20 19	2 24	5 4			
F 12	8 40	15 34	0 34	3 31	2 32	9 3	1 1	8 44	0 28	22 5	0 22	12 6	2 41	3 4	0 40	10 26	0 38	19 40	3 17	16 53	17 16	20 18	2 22	5 5			
S 13	9 2	17 57	0s33	2 59	2 34	9 31	1 0	9 1	0 27	22 7	0 22	12 4	2 41	3 5	0 40	10 25	0 38	19 40	3 17	16 53	17 15	20 18	2 21	5 5			
S 14	9 23	19 30	1 38	2 26	2 35	10 0	0 58	9 18	0 26	22 8	0 21	12 3	2 41	3 6	0 40	10 24	0 38	19 40	3 17	16 53	17 14	20 17	2 20	5 5			
M15	9 45	20 10	2 38	1 52	2 36	10 27	0 56	9 36	0 26	22 10	0 21	12 1	2 41	3 8	0 40	10 24	0 38	19 40	3 17	16 53	17 13	20 17	2 18	5 5			
T 16	10 6	19 55	3 30	1 16	2 36	10 55	0 55	9 52	0 25	22 11	0 21	12 0	2 41	3 9	0 40	10 23	0 38	19 40	3 17	16 54	17 12	20 17	2 17	5 5			
W17	10 27	18 48	4 14	0 39	2 36	11 23	0 53	10 9	0 25	22 13	0 21	11 58	2 41	3 10	0 40	10 23	0 38	19 40	3 17	16 54	17 11	20 16	2 16	5 5			
T 18	10 48	16 51	4 48	0 2	2 35	11 50	0 51	10 26	0 24	22 14	0 21	11 57	2 41	3 12	0 40	10 22	0 38	19 40	3 17	16 55	17 10	20 16	2 15	5 5			
F 19	11 9	14 9	5 9	0n37	2 34	12 16	0 49	10 43	0 23	22 15	0 21	11 56	2 41	3 13	0 40	10 22	0 38	19 40	3 17	16 55	17 9	20 15	2 13	5 6			
S 20	11 30	10 47	5 16	1 17	2 32	12 43	0 47	10 59	0 23	22 17	0 21	11 54	2 41	3 14	0 40	10 21	0 38	19 40	3 17	16 54	17 9	20 15	2 12	5 6			
S 21	11 50	6 51	5 9	1 58	2 30	13 9	0 45	11 16	0 22	22 18	0 20	11 53	2 41	3 15	0 40	10 21	0 38	19 40	3 17	16 54	17 8	20 15	2 11	5 6			
M22	12 11	2 31	4 46	2 39	2 27	13 35	0 43	11 32	0 21	22 20	0 20	11 51	2 41	3 17	0 40	10 20	0 38	19 40	3 17	16 53	17 7	20 14	2 10	5 6			
T 23	12 31	2s 6	4 7	3 22	2 23	14 1	0 41	11 48	0 21	22 21	0 20	11 50	2 41	3 18	0 40	10 20	0 38	19 40	3 17	16 53	17 6	20 14	2 9	5 6			
W24	12 51	6 44	3 12	4 5	2 19	14 26	0 39	12 4	0 20	22 22	0 20	11 48	2 41	3 19	0 40	10 19	0 38	19 40	3 17	16 52	17 5	20 13	2 7	5 6			
T 25	13 10	11 9	2 5	4 50	2 15	14 51	0 36	12 20	0 20	22 24	0 20	11 47	2 41	3 20	0 40	10 19	0 38	19 40	3 17	16 52	17 4	20 13	2 6	5 7			
F 26	13 30	15 0	0 48	5 35	2 10	15 15	0 34	12 36	0 19	22 25	0 20	11 45	2 41	3 22	0 40	10 18	0 38	19 40	3 17	16 52	17 3	20 12	2 5	5 7			
S 27	13 49	17 57	0n34	6 20	2 5	15 40	0 32	12 51	0 18	22 27	0 20	11 44	2 41	3 23	0 40	10 18	0 38	19 40	3 17	16 52	17 2	20 12	2 4	5 7			
S 28	14 8	19 44	1 53	7 7	1 59	16 3	0 30	13 7	0 18	22 28	0 20	11 43	2 41	3 24	0 40	10 17	0 38	19 40	3 17	16 52	17 1	20 11	2 3	5 7			
M29	14 27	20 8	3 5	7 54	1 52	16 27	0 28	13 22	0 17	22 29	0 19	11 41	2 41	3 25	0 40	10 17	0 38	19 40	3 17	16 52	17 1	20 11	2 2	5 7			
T 30	14n45	19s11	4n 4	8n41	1s46	16n50	0s25	13n37	0s16	22n30	0s19	11s40	2n41	3n26	0s40	10s16	0s38	19s40	3n17	16s52	17s 0	20n10	2s 1	5n			

ASTRODIENST EPHEMERIS for the year 2013

geocentric

MAY 2013

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 36 21	10°34'07	21°33'31	28°44'44	19°08'23	7°50'50	17°12'29	8°R 1	10°18'18	5°H 0	11°R30	16°M52	17°M15	25°I37	12°H52	W 1
T 2	14 40 18	11°45'21	5°38'41	0°34'41	20°37'37	8°35'35	17°42'42	7°M56	10°21'21	5° 1	11°30'30	16°53'53	17°11'11	25°43'43	12°54'54	T 2
F 3	14 44 14	12°43'33	19°33'33	2°40'40	21°50'50	9°19'19	17°54'54	7°52'52	10°24'24	5° 2	11°29'29	16°R53	17° 8	25°50'50	12°56'56	F 3
S 4	14 48 11	13°41'44	3°H 8	4°41'41	23° 4	10° 3	18° 7	7°47'47	10°27'27	5° 3	11°28'28	16°52'52	17° 5	25°57'57	12°59'59	S 4
S 5	14 52 7	14°39'53	16°25'25	6°43'43	24°18'18	10°48'48	18°19'19	7°43'43	10°30'30	5° 4	11°28'28	16°52'52	17° 2	26° 3	13° 1	S 5
M 6	14 56 4	15°38'01	29°26'26	8°47'47	25°32'32	11°32'32	18°32'32	7°38'38	10°33'33	5° 6	11°27'27	16°52'52	16°59'59	26°10'10	13° 3	M 6
T 7	15 0 0	16°36'07	12°12'12	10°52'52	26°46'46	12°16'16	18°45'45	7°34'34	10°36'36	5° 7	11°26'26	16°D52	16°55'55	26°17'17	13° 5	T 7
W 8	15 3 57	17°34'12	24°45'45	12°58'58	28° 0	13° 0	18°57'57	7°29'29	10°39'39	5° 8	11°26'26	16°52'52	16°52'52	26°23'23	13° 7	W 8
T 9	15 7 53	18°32'16	7°H 6	15° 6	29°14'14	13°44'44	19°10'10	7°25'25	10°42'42	5° 8	11°25'25	16°52'52	16°49'49	26°30'30	13°10'10	T 9
F 10	15 11 50	19°30'18	19°17'17	17°15'15	0°II28	14°28'28	19°23'23	7°20'20	10°45'45	5° 9	11°24'24	16°R52	16°46'46	26°37'37	13°12'12	F 10
S 11	15 15 47	20°28'18	1°II19	19°25'25	1°41'41	15°12'12	19°36'36	7°16'16	10°48'48	5°10'10	11°23'23	16°52'52	16°43'43	26°43'43	13°14'14	S 11
S 12	15 19 43	21°26'17	13°15'15	21°35'35	2°55'55	15°56'56	19°49'49	7°12'12	10°50'50	5°11'11	11°23'23	16°52'52	16°40'40	26°50'50	13°16'16	S 12
M13	15 23 40	22°24'14	25° 6	23°46'46	4° 9	16°40'40	20° 2	7° 7	10°53'53	5°12'12	11°22'22	16°51'51	16°36'36	26°57'57	13°17'17	M13
T 14	15 27 36	23°22'10	6°55'55	25°57'57	5°23'23	17°24'24	20°15'15	7° 3	10°56'56	5°13'13	11°21'21	16°50'50	16°33'33	27° 4	13°19'19	T 14
W15	15 31 33	24°20'03	18°46'46	28° 7	6°36'36	18° 8	20°28'28	6°59'59	10°59'59	5°14'14	11°20'20	16°49'49	16°30'30	27°10'10	13°21'21	W15
T 16	15 35 29	25°17'55	0°II41	0°II18	7°50'50	18°52'52	20°41'41	6°54'54	11° 1	5°14'14	11°19'19	16°48'48	16°27'27	27°17'17	13°23'23	T 16
F 17	15 39 26	26°15'46	12°45'45	2°28'28	9° 4	19°35'35	20°54'54	6°50'50	11° 4	5°15'15	11°18'18	16°48'48	16°24'24	27°24'24	13°24'24	F 17
S 18	15 43 23	27°13'34	25° 2	4°37'37	10°17'17	20°19'19	21° 8	6°46'46	11° 7	5°16'16	11°17'17	16°D47	16°21'21	27°30'30	13°26'26	S 18
S 19	15 47 19	28°11'21	7°H37	6°45'45	11°31'31	21° 2	21°21'21	6°42'42	11° 9	5°16'16	11°16'16	16°47'47	16°17'17	27°37'37	13°28'28	S 19
M20	15 51 16	29° 9'06	20°32'32	8°51'51	12°45'45	21°46'46	21°34'34	6°38'38	11°12'12	5°17'17	11°15'15	16°48'48	16°14'14	27°44'44	13°29'29	M20
T 21	15 55 12	0°II 6'50	3°A52	10°55'55	13°58'58	22°29'29	21°47'47	6°34'34	11°14'14	5°18'18	11°14'14	16°49'49	16°11'11	27°50'50	13°31'31	T 21
W22	15 59 9	1° 4'32	17°38'38	12°58'58	15°12'12	23°13'13	22° 1	6°30'30	11°17'17	5°18'18	11°13'13	16°50'50	16° 8	27°57'57	13°32'32	W22
T 23	16 3 5	2° 2'13	1°M51	14°59'59	16°25'25	23°56'56	22°14'14	6°26'26	11°19'19	5°19'19	11°12'12	16°51'51	16° 5	28° 4	13°33'33	T 23
F 24	16 7 2	2°59'52	16°27'27	16°57'57	17°39'39	24°39'39	22°28'28	6°22'22	11°22'22	5°19'19	11°11'11	16°R51	16° 1	28°10'10	13°35'35	F 24
S 25	16 10 58	3°57'29	1°A22	18°53'53	18°52'52	25°23'23	22°41'41	6°19'19	11°24'24	5°20'20	11°10'10	16°51'51	15°58'58	28°17'17	13°36'36	S 25
S 26	16 14 55	4°55'06	16°28'28	20°46'46	20° 6	26° 6	22°54'54	6°15'15	11°26'26	5°20'20	11° 9	16°50'50	15°55'55	28°24'24	13°37'37	S 26
M27	16 18 52	5°52'42	1°B35	22°36'36	21°19'19	26°49'49	23° 8	6°11'11	11°29'29	5°20'20	11° 8	16°48'48	15°52'52	28°30'30	13°38'38	M27
T 28	16 22 48	6°50'16	16°36'36	24°24'24	22°33'33	27°32'32	23°21'21	6° 8	11°31'31	5°21'21	11° 6	16°45'45	15°49'49	28°37'37	13°40'40	T 28
W29	16 26 45	7°47'49	1°A20	26° 9	23°46'46	28°15'15	23°35'35	6° 4	11°33'33	5°21'21	11° 5	16°43'43	15°46'46	28°44'44	13°41'41	W29
T 30	16 30 41	8°45'22	15°44'44	27°52'52	25° 0	28°58'58	23°49'49	6° 1	11°36'36	5°21'21	11° 4	16°41'41	15°42'42	28°50'50	13°42'42	T 30
F 31	16 34 38	9°II42'54	29°A43	29°II31	26°II13	29°B41	24°II 2	5°M57	11°18'38	5°H22	11°3 3	16°M39	15°M39	28°II57	13°H43	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	15n 4	16s59	4n47	9n30	1s38	17n12	0s23	13n52	0s16	22n32	0s19	11s38	2n41	3n28	0s40	10s16
T 2	15 22	13 49	5 11	10 18	1 30	17 34	0 21	14 7	0 15	22 33	0 19	11 37	2 41	3 29	0 40	10 16
F 3	15 39	9 56	5 17	11 7	1 22	17 56	0 18	14 22	0 14	22 34	0 19	11 35	2 41	3 30	0 40	10 15
S 4	15 57	5 37	5 5	11 55	1 14	18 17	0 16	14 37	0 14	22 36	0 19	11 34	2 41	3 31	0 40	10 15
S 5	16 14	1 7	4 36	12 44	1 4	18 38	0 13	14 51	0 13	22 37	0 19	11 33	2 41	3 32	0 40	10 14
M 6	16 31	3n21	3 54	13 33	0 55	18 58	0 11	15 6	0 12	22 38	0 19	11 31	2 41	3 33	0 40	10 14
T 7	16 48	7 36	3 1	14 22	0 45	19 17	0 9	15 20	0 12	22 39	0 18	11 30	2 41	3 35	0 40	10 14
W 8	17 4	11 27	2 0	15 10	0 35	19 37	0 6	15 34	0 11	22 40	0 18	11 29	2 41	3 36	0 40	10 13
T 9	17 20	14 44	0 54	15 58	0 25	19 55	0 4	15 48	0 11	22 42	0 18	11 27	2 40	3 37	0 40	10 13
F 10	17 36	17 20	0s13	16 45	0 15	20 13	0 1	16 1	0 10	22 43	0 18	11 26	2 40	3 38	0 40	10 13
S 11	17 52	19 8	1 19	17 31	0 4	20 31	0n 1	16 15	0 9	22 44	0 18	11 24	2 40	3 39	0 40	10 13
S 12	18 7 20	3 2	2 21	18 15	0n 6	20 48	0 4	16 28	0 9	22 45	0 18	11 23	2 40	3 40	0 41	10 12
M13	18 22 20	4 3	17 18	59 0	17 21	4 0	6	16 41	0 8	22 46	0 18	11 22	2 40	3 41	0 41	10 12
T 14	18 37 19	12 4	4 19	41 0	27 21	20 0	8	16 54	0 7	22 47	0 18	11 21	2 40	3 42	0 41	10 12
W15	18 51 17	30 4	4 40	20 21	0 37	21 35	0 11	17 7	0 7	22 48	0 17	11 19	2 40	3 43	0 41	10 11
T 16	19 5 15	2 5	5 20	59 0	48 21	50 0	13	17 20	0 6	22 49	0 17	11 18	2 40	3 44	0 41	10 11
F 17	19 19 11	55 5	16 21	35 0	57 22	4 0	16	17 32	0 5	22 50	0 17	11 17	2 40	3 45	0 41	10 11
S 18	19 32 8	14 5	14 22	9 1	7 22	17 0	18	17 45	0 5	22 51	0 17	11 16	2 40	3 46	0 41	10 11
S 19	19 45 4	7 4	5 6	22 40	1 16	22 30	0 21	17 57	0 4	22 52	0 17	11 14	2 39	3 47	0 41	10 11
M20	19 58 0s18	4 24	23 9	1 24	22 42	0 23	18 9	0 3	22 53	0 17	11 13	2 39	3 48	0 41	10 10	0 39
T 21	20 10 4	51 3	36 23 36	1 32	22 54	0 26	18 21	0 3	22 54	0 17	11 12	2 39	3 49	0 41	10 10	0 39
W22	20 22 9	18 2	35 23 59	1 39	23 5	0 28	18 32	0 2	22 55	0 17	11 11	2 39	3 50	0 41	10 10	0 39
T 23	20 34 13	24 1	22 24 20	1 46	23 15	0 30	18 44	0 2	22 56	0 17	11 10	2 39	3 51	0 41	10 10	0 39
F 24	20 45 16	47 0	2 24 39	1 52	23 24	0 33	18 55	0 1	22 57	0 16	11 9	2 39	3 52	0 41	10 10	0 39
S 25	20 56 19	8 1n19	24 55	1 57	23 33	0 35	19 6	0 0	22 58	0 16	11 8	2 39	3 53	0 41	10 10	0 39
S 26	21 7 20	9 2	36 25 8	2 1	23 41	0 38	19 17	0n 0	22 59	0 16	11 6	2 38	3 54	0 41	10 9	0 39
M27	21 17 19	43 3	43 25 18	2 5	23 49	0 40	19 28	0 1	22 59	0 16	11 5	2 38	3 55	0 41	10 9	0 39
T 28	21 27 17	53 4	33 23 27	2 8	23 56	0 42	19 38	0 2	23 0	0 16	11 4	2 38	3 56	0 41	10 9	0 39
W29	21 36 14	55 5	4 25 32	2 10	24 2	0 45	19 48	0 2	23 1	0 16	11 3	2 38	3 57	0 41	10 9	0 39
T 30	21 46 11	6 5	15 25 36	2 11	24 7	0 47	19 58	0 3	23 2	0 16	11 2	2 38	3 57	0 41	10 9	0 39
F 31	21n54	6s46	5n 7	25n38	2n11	24n12	0n49	20n 8	0n 4	23n 2	0s16	11s 1	2n38	3n58	0s41	10s 9

Julian Day Number = 2456413.5, Delta T = 67.03 sec
 Ecliptic obliquity = 23°26'09, Nutation = 0°00'12, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°55'35, Lahiri = 24°02'36

ASTRODIENST EPHEMERIS for the year 2013

geocentric

JUNE 2013

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 38 34	10II40'24	13K17	198 8	27II26	0II24	24II16	5°R54	11Y40	5K22	11°R 2	16°D39	15M36	29II 4	13K43	S 1
S 2	16 42 31	11°37'55	26°28	2°41	28°40	1° 7	24°29	5M51	11°42	5°22	11°Z 0	16M40	15°33	29°10	13°44	S 2
M 3	16 46 27	12°35'24	9Y18	4°12	29°53	1°49	24°43	5°47	11°44	5°22	10°59	16°41	15°30	29°17	13°45	M 3
T 4	16 50 24	13°32'53	21°50	5°39	198 7	2°32	24°57	5°44	11°46	5°22	10°58	16°43	15°27	29°24	13°46	T 4
W 5	16 54 21	14°30'20	48 8	7° 4	2°20	3°15	25°10	5°41	11°48	5°22	10°56	16°44	15°23	29°30	13°46	W 5
T 6	16 58 17	15°27'48	16°15	8°25	3°33	3°57	25°24	5°38	11°50	5°22	10°55	16°R45	15°20	29°37	13°47	T 6
F 7	17 2 14	16°25'14	28°15	9°43	4°47	4°40	25°38	5°35	11°52	5°R22	10°54	16°44	15°17	29°44	13°48	F 7
S 8	17 6 10	17°22'40	10II 9	10°59	6° 0	5°23	25°51	5°33	11°54	5°22	10°52	16°42	15°14	29°51	13°48	S 8
S 9	17 10 7	18°20'05	21°59	12°11	7°13	6° 5	26° 5	5°30	11°56	5°22	10°51	16°38	15°11	29°57	13°49	S 9
M10	17 14 3	19°17'29	3849	13°19	8°26	6°47	26°19	5°27	11°57	5°22	10°50	16°34	15° 7	004 4	13°49	M10
T 11	17 18 0	20°14'52	15°39	14°25	9°40	7°30	26°33	5°25	11°59	5°22	10°48	16°28	15° 4	0°11	13°49	T 11
W12	17 21 56	21°12'14	27°32	15°27	10°53	8°12	26°46	5°22	12° 1	5°22	10°47	16°22	15° 1	0°17	13°50	W12
T 13	17 25 53	22° 9'36	9830	16°25	12° 6	8°54	27° 0	5°20	12° 2	5°22	10°46	16°16	14°58	0°24	13°50	T 13
F 14	17 29 50	23° 6'56	21°37	17°20	13°19	9°36	27°14	5°17	12° 4	5°22	10°44	16°11	14°55	0°31	13°50	F 14
S 15	17 33 46	24° 4'16	31954	18°11	14°32	10°19	27°28	5°15	12° 6	5°22	10°43	16° 7	14°52	0°37	13°50	S 15
S 16	17 37 43	25° 1'34	16°26	18°59	15°45	11° 1	27°41	5°13	12° 7	5°21	10°41	16° 5	14°48	0°44	13°50	S 16
M17	17 41 39	25°58'52	29°17	19°42	16°59	11°43	27°55	5°11	12° 9	5°21	10°40	16°D 5	14°45	0°51	13°50	M17
T 18	17 45 36	26°56'09	12230	20°22	18°12	12°25	28° 9	5° 9	12°10	5°21	10°38	16° 6	14°42	0°57	13°50	T 18
W19	17 49 32	27°53'25	26° 9	20°58	19°25	13° 7	28°23	5° 7	12°11	5°20	10°37	16° 7	14°39	1° 4	13°50	W19
T 20	17 53 29	28°50'40	10M14	21°29	20°38	13°48	28°36	5° 5	12°13	5°20	10°35	16°R 8	14°36	1°11	13°50	T 20
F 21	17 57 25	29°47'55	24°45	21°57	21°51	14°30	28°50	5° 4	12°14	5°19	10°34	16° 8	14°33	1°17	13°49	F 21
S 22	18 1 22	0045'09	9M39	22°20	23° 4	15°12	29° 4	5° 2	12°15	5°19	10°33	16° 6	14°29	1°24	13°49	S 22
S 23	18 5 19	1°42'23	24°49	22°38	24°17	15°54	29°18	5° 0	12°17	5°19	10°31	16° 2	14°26	1°31	13°49	S 23
M24	18 9 15	2°39'36	1038 6	22°52	25°30	16°35	29°32	4°59	12°18	5°18	10°30	15°57	14°23	1°38	13°48	M24
T 25	18 13 12	3°36'49	25°19	23° 1	26°42	17°17	29°45	4°58	12°19	5°17	10°28	15°50	14°20	1°44	13°48	T 25
W26	18 17 8	4°34'02	10818	23° 6	27°55	17°59	29°59	4°56	12°20	5°17	10°27	15°43	14°17	1°51	13°48	W26
T 27	18 21 5	5°31'14	24°55	23°R 6	29° 8	18°40	0013	4°55	12°21	5°16	10°25	15°37	14°13	1°58	13°47	T 27
F 28	18 25 1	6°28'26	9K 4	23° 2	0021	19°22	0°26	4°54	12°22	5°16	10°24	15°32	14°10	2° 4	13°46	F 28
S 29	18 28 58	7°25'39	22°44	22°53	1°34	20° 3	0°40	4°53	12°23	5°15	10°22	15°29	14° 7	2°11	13°46	S 29
S 30	18 32 54	822'51	5Y56	22540	2847	20II44	0554	4M52	12Y24	5K14	10321	15°D28	14M 4	2518	13K45	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	
S 1	22n 3	2s14 4n42	25n37 2n11	24n16 0n51	20n18 0n 4	23n 3 0s16	11s 1 2n37	3n59 0s41	10s 9 0s39	19s43 3n16	16s49 16s31	19n53 1s33	5n15			
S 2	22 11	2n18 4 2	25 34 2 10	24 19 0 53	20 28 0 5	23 4 0 15	11 0 2 37	4 0 0 41	10 9 0 39	19 43 3 16	16 49 16 30	19 53 1 33	5 15			
M 3	22 18	6 37 3 12	25 30 2 8	24 22 0 56	20 37 0 6	23 4 0 15	10 59 2 37	4 1 0 41	10 9 0 39	19 44 3 16	16 49 16 29	19 52 1 32	5 15			
T 4	22 25	10 33 2 13	25 24 2 5	24 24 0 58	20 46 0 6	23 5 0 15	10 58 2 37	4 1 0 41	10 9 0 39	19 44 3 16	16 50 16 28	19 51 1 32	5 15			
W 5	22 32	13 58 1 9	25 17 2 2	24 25 1 0	20 55 0 7	23 6 0 15	10 57 2 37	4 2 0 41	10 9 0 39	19 44 3 16	16 50 16 27	19 51 1 31	5 16			
T 6	22 39	16 44 0 3	25 7 1 58	24 25 1 2	21 4 0 8	23 6 0 15	10 56 2 36	4 3 0 41	10 9 0 39	19 44 3 16	16 50 16 26	19 50 1 31	5 16			
F 7	22 45	18 45 1s 3	24 57 1 53	24 25 1 4	21 12 0 8	23 7 0 15	10 56 2 36	4 4 0 41	10 9 0 39	19 44 3 16	16 50 16 25	19 50 1 30	5 16			
S 8	22 50	19 55 2 5	24 45 1 47	24 24 1 6	21 20 0 9	23 7 0 15	10 55 2 36	4 4 0 41	10 9 0 39	19 44 3 16	16 50 16 24	19 49 1 30	5 16			
S 9	22 55	20 11 3 1	24 32 1 40	24 22 1 8	21 28 0 9	23 8 0 15	10 54 2 36	4 5 0 41	10 9 0 39	19 45 3 16	16 48 16 23	19 48 1 30	5 17			
M10	23 0	19 34 3 49	24 19 1 33	24 19 1 10	21 36 0 10	23 8 0 15	10 53 2 36	4 6 0 41	10 9 0 39	19 45 3 16	16 47 16 22	19 48 1 29	5 17			
T 11	23 5	18 5 4 28	24 4 1 25	24 16 1 11	21 44 0 11	23 9 0 15	10 53 2 35	4 6 0 41	10 9 0 39	19 45 3 15	16 45 16 21	19 47 1 29	5 17			
W12	23 9	15 50 4 54	23 48 1 16	24 12 1 13	21 51 0 11	23 9 0 14	10 52 2 35	4 7 0 41	10 9 0 39	19 45 3 15	16 44 16 20	19 46 1 28	5 17			
T 13	23 12	12 54 5 9	23 32 1 7	24 8 1 15	21 59 0 12	23 10 0 14	10 52 2 35	4 8 0 41	10 9 0 39	19 45 3 15	16 42 16 19	19 46 1 28	5 18			
F 14	23 15	9 25 5 10	23 15 0 56	24 2 1 17	22 6 0 13	23 10 0 14	10 51 2 35	4 8 0 41	10 9 0 39	19 45 3 15	16 41 16 18	19 45 1 28	5 18			
S 15	23 18	5 28 4 56	22 57 0 46	23 56 1 18	22 13 0 13	23 11 0 14	10 51 2 34	4 9 0 41	10 9 0 39	19 46 3 15	16 40 16 18	19 45 1 28	5 18			
S 16	23 21	1 13 4 29	22 39 0 34	23 50 1 20	22 19 0 14	23 11 0 14	10 50 2 34	4 9 0 41	10 10 0 40	19 46 3 15	16 39 16 17	19 44 1 27	5 18			
M17	23 22	3s11 3 47	22 21 0 22	23 42 1 21	22 26 0 15	23 11 0 14	10 50 2 34	4 10 0 41	10 10 0 40	19 46 3 15	16 39 16 16	19 43 1 27	5 19			
T 18	23 24	7 35 2 52	22 3 0 9	23 34 1 23	22 32 0 15	23 12 0 14	10 49 2 34	4 10 0 41	10 10 0 40	19 46 3 15	16 39 16 15	19 43 1 27	5 19			
W19	23 25	11 45 1 46	21 44 0s 4	23 25 1 24	22 38 0 16	23 12 0 14	10 49 2 33	4 11 0 41	10 10 0 40	19 46 3 15	16 40 16 14	19 42 1 27	5 19			
T 20	23 26	15 23 0 32	21 25 0 18	23 16 1 26	22 44 0 16	23 12 0 14	10 48 2 33	4 11 0 41	10 10 0 40	19 47 3 15	16 40 16 13	19 41 1 27	5 19			
F 21	23 26	18 12 0n47	21 7 0 32	23 6 1 27	22 49 0 17	23 12 0 14	10 48 2 33	4 12 0 41	10 10 0 40	19 47 3 15	16 40 16 12	19 41 1 26	5 20			
S 22	23 26	19 51 2 4	20 49 0 47	22 55 1 28	22 54 0 18	23 12 0 13	10 48 2 33	4 12 0 42	10 11 0 40	19 47 3 15	16 39 16 11	19 40 1 26	5 20			
S 23	23 25	20 7 3 14	20 31 1 2	22 43 1 29	23 0 0 18	23 13 0 13	10 48 2 33	4 13 0 42	10 11 0 40	19 47 3 15	16 38 16 10	19 39 1 26	5 20			
M24	23 25	18 54 4 10	20 13 1 18	22 31 1 31	23 4 0 19	23 13 0 13	10 47 2 32	4 13 0 42	10 11 0 40	19 47 3 14	16 36 16 9	19 39 1 26	5 20			
T 25	23 23	16 20 4 48	19 56 1 34	22 19 1 32	23 9 0 20	23 13 0 13	10 47 2 32	4 14 0 42	10 11 0 40	19 48 3 14	16 35 16 8	19 38 1 26	5 21			
W26	23 21	12 44 5 6	19 39 1 50	22 5 1 33	23 14 0 20	23 13 0 13	10 47 2 32	4 14 0 42	10 11 0 40	19 48 3 14	16 33 16 7	19 37 1 26	5 21			
T 27	23 19	8 26 5 4	19 23 2 6	21 51 1 34	23 18 0 21	23 13 0 13	10 47 2 31	4 14 0 42	10 12 0 40	19 48 3 14	16 31 16 6	19 37 1 26	5 21			
F 28	23 17	3 48 4 42	19 8 2 22	21 37 1 35	23 22 0 21	23 13 0 13	10 47 2 31	4 15 0 42	10 12 0 40	19 48 3 14	16 29 16 5	19 36 1 26	5 21			
S 29	23 14	0n52 4 5	18 54 2 38	21 21 1 35	23 26 0 22	23 13 0 13	10 47 2 31	4 15 0 42	10 12 0 40	19 48 3 14	16 28 16 4	19 35 1 26	5 22			
S 30	23n10	5n22 3n16	18n41 2s54	21n 6 1n36	23n29 0n23	23n13 0s13	10s47 2n31	4n15 0s42	10s13 0s40	19s49 3n14	16s28 16s 3	19n34 1s26	5n22			

Julian Day Number = 2456444.5, Delta T = 67.06 sec

Ecliptic obliquity = 23°26'08", Nutation = 0°00'12", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°55'40", Lahiri = 24°02'40"

ASTRODIENST EPHEMERIS for the year 2013

geocentric

JULY 2013

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	18 36 51	9°20'04	18°44'	22°R23	3♌59	21♊26	1♉8	4°R52	12°Y25	5°R14	10°R19	15°M28	14°M1	2°24	13°R44	M 1
T 2	18 40 48	10°17'17	18°10'	22°S1	5°12	22°7	1°21	4°M51	12°25	5°K13	10°S18	15°29	13°58	2°31	13°K43	T 2
W 3	18 44 44	11°14'30	13°22	21°36	6°25	22°48	1°35	4°50	12°26	5°12	10°16	15°R30	13°54	2°38	13°42	W 3
T 4	18 48 41	12°11'43	25°21	21°8	7°38	23°29	1°49	4°50	12°27	5°11	10°14	15°29	13°51	2°44	13°42	T 4
F 5	18 52 37	13°8'56	7°II14	20°36	8°50	24°10	2°2	4°50	12°27	5°10	10°13	15°27	13°48	2°51	13°41	F 5
S 6	18 56 34	14°6'10	19°4	20°3	10°3	24°51	2°16	4°49	12°28	5°10	10°11	15°22	13°45	2°58	13°40	S 6
S 7	19 0 30	15°3'24	0°S52	19°27	11°16	25°32	2°29	4°49	12°29	5°9	10°10	15°15	13°42	3°4	13°38	S 7
M 8	19 4 27	16°0'37	12°43	18°50	12°28	26°13	2°43	4°D49	12°29	5°8	10°8	15°5	13°39	3°11	13°37	M 8
T 9	19 8 23	16°57'51	24°37	18°12	13°41	26°54	2°56	4°49	12°29	5°7	10°7	14°54	13°35	3°18	13°36	T 9
W10	19 12 20	17°55'05	6°L36	17°34	14°53	27°35	3°10	4°49	12°30	5°6	10°5	14°42	13°32	3°25	13°35	W10
T 11	19 16 17	18°52'19	18°42	16°57	16°6	28°16	3°24	4°49	12°30	5°5	10°4	14°31	13°29	3°31	13°34	T 11
F 12	19 20 13	19°49'33	0°M55	16°20	17°19	28°57	3°37	4°50	12°31	5°4	10°2	14°21	13°26	3°38	13°32	F 12
S 13	19 24 10	20°46'48	13°19	15°46	18°31	29°37	3°50	4°50	12°31	5°3	10°1	14°14	13°23	3°45	13°31	S 13
S 14	19 28 6	21°44'02	25°55	15°14	19°43	0°S18	4°4	4°51	12°31	5°2	10°0	14°8	13°19	3°51	13°29	S 14
M15	19 32 3	22°41'16	8°L46	14°45	20°56	0°59	4°17	4°51	12°31	5°1	9°58	14°6	13°16	3°58	13°28	M15
T 16	19 35 59	23°38'30	21°56	14°20	22°8	1°39	4°31	4°52	12°31	5°0	9°57	14°D5	13°13	4°5	13°26	T 16
W17	19 39 56	24°35'44	5°M27	13°59	23°21	2°20	4°44	4°53	12°31	4°58	9°55	14°5	13°10	4°11	13°25	W17
T 18	19 43 52	25°32'59	19°22	13°42	24°33	3°0	4°57	4°54	12°R31	4°57	9°54	14°R5	13°7	4°18	13°23	T 18
F 19	19 47 49	26°30'13	3°L40	13°30	25°45	3°40	5°10	4°55	12°31	4°56	9°52	14°4	13°4	4°25	13°21	F 19
S 20	19 51 46	27°27'28	18°22	13°23	26°57	4°21	5°24	4°56	12°31	4°55	9°51	14°0	13°0	4°31	13°20	S 20
S 21	19 55 42	28°24'44	3°S22	13°D22	28°10	5°1	5°37	4°57	12°31	4°54	9°49	13°54	12°57	4°38	13°18	S 21
M22	19 59 39	29°21'59	18°32	13°26	29°22	5°41	5°50	4°58	12°31	4°52	9°48	13°46	12°54	4°45	13°16	M22
T 23	20 3 35	0°L19'15	3°M43	13°36	0°M34	6°22	6°3	5°0	12°31	4°51	9°47	13°36	12°51	4°52	13°14	T 23
W24	20 7 32	1°16'31	18°43	13°51	1°46	7°2	6°16	5°1	12°30	4°50	9°45	13°25	12°48	4°58	13°12	W24
T 25	20 11 28	2°13'49	3°K25	14°13	2°58	7°42	6°29	5°3	12°30	4°49	9°44	13°16	12°45	5°5	13°10	T 25
F 26	20 15 25	3°11'06	17°40	14°40	4°10	8°22	6°42	5°5	12°30	4°47	9°42	13°8	12°41	5°12	13°8	F 26
S 27	20 19 21	4°8'25	1°Y25	15°14	5°22	9°2	6°55	5°6	12°29	4°46	9°41	13°2	12°38	5°18	13°6	S 27
S 28	20 23 18	5°5'45	14°42	15°53	6°34	9°42	7°8	5°8	12°29	4°45	9°40	12°59	12°35	5°25	13°4	S 28
M29	20 27 15	6°3'06	27°32	16°38	7°46	10°22	7°21	5°10	12°28	4°43	9°38	12°58	12°32	5°32	13°2	M29
T 30	20 31 11	7°0'27	9°S59	17°29	8°58	11°2	7°33	5°12	12°28	4°42	9°37	12°57	12°29	5°38	13°0	T 30
W31	20 35 8	7°L57'50	22°S9	18°S26	10°M10	11°S41	7°S46	5°M14	12°Y27	4°K40	9°S36	12°M57	12°M25	5°S45	12°K58	W31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n 6	9n29	2n19	18n28	3s 9	20n49	1n37	23n33	0n23	23n13	0s13	10s47	2n30	4n16	0s42	10s13	0s40	19s49	3n14	16s28	16s 3	19n34	1s26	5n22	
T 2	23 2	13 4	1 16	18 17	3 24	20 32	1 37	23 36	0 24	23 13	0 13	10 47	2 30	4 16	0 42	10 13	0 40	19 49	3 14	16 28	16 2	19 33	1 26	5 22	
W 3	22 58	16 2	0 11	18 7	3 38	20 15	1 38	23 39	0 25	23 13	0 12	10 47	2 30	4 16	0 42	10 13	0 40	19 49	3 14	16 29	16 1	19 32	1 26	5 22	
T 4	22 53	18 15	0s53	17 58	3 51	19 57	1 38	23 42	0 25	23 13	0 12	10 47	2 30	4 16	0 42	10 14	0 40	19 49	3 13	16 29	16 0	19 32	1 27	5 23	
F 5	22 47	19 39	1 54	17 50	4 4	19 38	1 39	23 44	0 26	23 13	0 12	10 47	2 29	4 17	0 42	10 14	0 40	19 50	3 13	16 28	15 59	19 31	1 27	5 23	
S 6	22 41	20 10	2 50	17 44	4 15	19 19	1 39	23 47	0 26	23 13	0 12	10 47	2 29	4 17	0 42	10 14	0 40	19 50	3 13	16 26	15 58	19 30	1 27	5 23	
S 7	22 35	19 48	3 38	17 39	4 25	18 59	1 39	23 49	0 27	23 13	0 12	10 47	2 29	4 17	0 42	10 15	0 40	19 50	3 13	16 24	15 57	19 29	1 27	5 23	
M 8	22 29	18 34	4 17	17 36	4 34	18 39	1 39	23 51	0 28	23 12	0 12	10 47	2 29	4 17	0 42	10 15	0 40	19 50	3 13	16 22	15 56	19 29	1 27	5 24	
T 9	22 22	16 32	4 45	17 33	4 41	18 18	1 40	23 52	0 28	23 12	0 12	10 48	2 28	4 17	0 42	10 15	0 40	19 51	3 13	16 18	15 55	19 28	1 28	5 24	
W10	22 14	13 46	5 0	17 32	4 47	17 57	1 40	23 54	0 29	23 12	0 12	10 48	2 28	4 18	0 42	10 16	0 40	19 51	3 13	16 15	15 54	19 27	1 28	5 24	
T 11	22 6	10 26	5 2	17 33	4 51	17 35	1 39	23 55	0 30	23 12	0 12	10 48	2 28	4 18	0 42	10 16	0 40	19 51	3 13	16 12	15 53	19 27	1 28	5 24	
F 12	21 58	6 37	4 51	17 35	4 53	17 13	1 39	23 56	0 30	23 12	0 12	10 49	2 28	4 18	0 42	10 17	0 40	19 51	3 13	16 9	15 52	19 26	1 29	5 24	
S 13	21 50	2 28	4 25	17 38	4 54	16 51	1 39	23 57	0 31	23 11	0 12	10 49	2 27	4 18	0 42	10 17	0 40	19 52	3 12	16 6	15 51	19 25	1 29	5 25	
S 14	21 41	1s51	3 47	17 42	4 53	16 28	1 39	23 57	0 31	23 11	0 11	10 50	2 27	4 18	0 42	10 17	0 40	19 52	3 12	16 5	15 50	19 24	1 29	5 25	
M15	21 32	6 10	2 56	17 48	4 51	16 4	1 38	23 58	0 32	23 11	0 11	10 50	2 27	4 18	0 42	10 18	0 40	19 52	3 12	16 4	15 49	19 24	1 30	5 25	
T 16	21 22	10 19	1 55	17 54	4 47	15 40	1 38	23 58	0 33	23 10	0 11	10 50	2 26	4 18	0 42	10 18	0 40	19 52	3 12	16 4	15 48	19 23	1 30	5 25	
W17	21 12	14 3	0 46	18 2	4 42	15 16	1 38	23 58	0 33	23 10	0 11	10 51	2 26	4 18	0 42	10 19	0 40	19 52	3 12	16 4	15 47	19 22	1 30	5 25	
T 18	21 2	17 7	0n28	18 10	4 35	14 52	1 37	23 58	0 34	23 9	0 11	10 52	2 26	4 18	0 42	10 19	0 40	19 53	3 12	16 4	15 46	19 21	1 31	5 26	
F 19	20 51	19 13	1 42	18 20	4 27	14 27	1 36	23 57	0 34	23 9	0 11	10 52	2 26	4 18	0 42	10 20	0 40	19 53	3 12	16 3	15 45	19 20	1 31	5 26	
S 20	20 40	20 5	2 51	18 30	4 17	14 1	1 35	23 57	0 35	23 9	0 11	10 53	2 25	4 18	0 42	10 20	0 40	19 53	3 12	16 2	15 44	19 20	1 32	5 26	
S 21	20 29	19 34	3 50	18 40	4 7	13 35	1 35	23 56	0 36	23 8	0 11	10 53	2 25	4 18	0 42	10 21	0 41	19 53	3 11	16 1	15 43	19 19	1 32	5 26	
M22	20 17	17 39	4 33	18 51	3 55	13 9	1 34	23 55	0 36	23 8	0 11	10 54	2 25	4 18	0 42	10 21	0 41	19 54	3 11	15 58	15 42	19 18	1 33	5 26	
T 23	20 5	14 30	4 57	19 2	3 43	12 43	1 33	23 54	0 37	23 7	0 11	10 55	2 25	4 17	0 42	10 22	0 41	19 54	3 11	15 55	15 42	19 17	1 33	5 26	
W24	19 52	10 27	5 0	19 14	3 30	12 16	1 32	23 52	0 37	23 7	0 11	10 56	2 24	4 17	0 42	10 22	0 41	19 54	3 11	15 52	15 41	19 17	1 34	5 27	
T 25	19 40	5 51	4 43	19 25	3 16	11 49	1 31	23 51	0 38	23 6	0 10	10 56	2 24	4 17	0 43	10 23	0 41	19 54	3 11	15 49	15 40	19 16	1 35	5 27	
F 26	19 27	1 3	4 9	19 36	3 2	11 22	1 29	23 49	0 39	23 6	0 10	10 57	2 24	4 17	0 43	10 23	0 41	19 55	3 11	15 47	15 39	19 15	1 35	5 27	
S 27	19 13	3n38	3 21	19 47	2 48	10 54	1 28	23 47	0 39	23 5	0 10	10 58	2 24	4 17	0 43	10 24	0 41	19 55	3 11	15 45	15 38	19 14	1 36	5 27	
S 28	18 59	8 0	2 24	19 58	2 33	10 26	1 27	23 45	0 40	23 4	0 10	10 59	2 23	4 17	0 43	10 24	0 41	19 55	3 10	15 44	15 37	19 13	1 37	5 27	
M29	18 45	11 51	1 21	20 7	2 18	9 58	1 25	23 42	0 40	23 4	0 10	11 0	2 23	4 16	0 43	10 25	0 41	19 55	3 10	15 44	15 36	19 13	1 37	5 27	
T30	18 31	15 3	0 16	20 16	2 2	9 30	1 24	23 39	0 41	23 3	0 10	11 1	2 23	4 16	0 43	10 25	0 41	19 56	3 10	15 43	15 35	19 12	1 38	5 27	
W31	18n16	17n31	0s49	20n24	1s47	9n 1	1n22	23n37	0n42	23n 2	0s10	11s 2	2n22	4n16	0s43	10s26	0s41	19s56	3n10	15s43	15s34	19n11	1s39	5n28	

ASTRODIENST EPHEMERIS for the year 2013

geocentric

AUGUST 2013

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 39 4	8♂55'14	4♂7	19♂28	11♂22	12♂21	7♂59	5♂17	12°R26	4°R39	9°R35	12°R56	12♂22	5♂52	12°R56	T 1	
F 2	20 43 1	9°52'39	15°59	20°36	12°33	13° 1	8°12	5°19	12°Y26	4°K38	9°Z33	12♂53	12°19	5°58	12°K54	F 2	
S 3	20 46 57	10°50'06	27°47	21°49	13°45	13°41	8°24	5°21	12°25	4°36	9°32	12°47	12°16	6° 5	12°51	S 3	
S 4	20 50 54	11°47'33	9♂37	23° 7	14°57	14°20	8°37	5°24	12°24	4°35	9°31	12°38	12°13	6°12	12°49	S 4	
M 5	20 54 50	12°45'01	21°32	24°31	16° 8	15° 0	8°49	5°27	12°23	4°33	9°30	12°27	12°10	6°19	12°47	M 5	
T 6	20 58 47	13°42'31	3♂23	25°59	17°20	15°39	9° 2	5°29	12°22	4°32	9°28	12°14	12° 6	6°25	12°44	T 6	
W 7	21 2 44	14°40'01	15°41	27°32	18°32	16°19	9°14	5°32	12°22	4°30	9°27	12° 0	12° 3	6°32	12°42	W 7	
T 8	21 6 40	15°37'32	27°58	29° 9	19°43	16°58	9°26	5°35	12°21	4°29	9°26	11°47	12° 0	6°39	12°39	T 8	
F 9	21 10 37	16°35'05	10♂25	0♂50	20°55	17°38	9°39	5°38	12°20	4°27	9°25	11°35	11°57	6°45	12°37	F 9	
S 10	21 14 33	17°32'38	23° 1	2°35	22° 6	18°17	9°51	5°41	12°18	4°25	9°24	11°25	11°54	6°52	12°34	S 10	
S 11	21 18 30	18°30'12	5♂49	4°23	23°18	18°56	10° 3	5°44	12°17	4°24	9°23	11°19	11°50	6°59	12°32	S 11	
M12	21 22 26	19°27'47	18°49	6°14	24°29	19°35	10°15	5°47	12°16	4°22	9°22	11°15	11°47	7° 5	12°29	M12	
T 13	21 26 23	20°25'23	2♂14	8° 8	25°40	20°15	10°27	5°51	12°15	4°21	9°21	11°14	11°44	7°12	12°27	T 13	
W14	21 30 19	21°23'00	15°34	10° 4	26°51	20°54	10°39	5°54	12°14	4°19	9°20	11°14	11°41	7°19	12°24	W14	
T 15	21 34 16	22°20'38	29°23	12° 2	28° 3	21°33	10°51	5°58	12°13	4°18	9°19	11°13	11°38	7°26	12°22	T 15	
F 16	21 38 13	23°18'17	13♂30	14° 1	29°14	22°12	11° 2	6° 1	12°11	4°16	9°18	11°12	11°35	7°32	12°19	F 16	
S 17	21 42 9	24°15'57	27°55	16° 1	0♂25	22°51	11°14	6° 5	12°10	4°14	9°17	11° 9	11°31	7°39	12°16	S 17	
S 18	21 46 6	25°13'38	12♂36	18° 2	1°36	23°30	11°26	6° 9	12° 8	4°13	9°16	11° 3	11°28	7°46	12°14	S 18	
M19	21 50 2	26°11'20	27°27	20° 3	2°47	24° 9	11°37	6°12	12° 7	4°11	9°15	10°55	11°25	7°52	12°11	M19	
T 20	21 53 59	27° 9'03	12♂20	22° 5	3°58	24°48	11°49	6°16	12° 6	4° 9	9°14	10°45	11°22	7°59	12° 8	T 20	
W21	21 57 55	28° 6'48	27° 7	24° 6	5° 9	25°26	12° 0	6°20	12° 4	4° 8	9°13	10°34	11°19	8° 6	12° 5	W21	
T 22	22 1 52	29° 4'33	11♂39	26° 7	6°19	26° 5	12°11	6°24	12° 2	4° 6	9°12	10°24	11°16	8°12	12° 3	T 22	
F 23	22 5 48	0♂22	25°49	28° 7	7°30	26°44	12°23	6°28	12° 1	4° 5	9°11	10°16	11°12	8°19	12° 0	F 23	
S 24	22 9 45	1° 0'09	9°Y34	0♂7	8°41	27°22	12°34	6°33	11°59	4° 3	9°11	10°10	11° 9	8°26	11°57	S 24	
S 25	22 13 42	1°58'00	22°52	2° 6	9°51	28° 1	12°45	6°37	11°58	4° 1	9°10	10° 7	11° 6	8°33	11°54	S 25	
M26	22 17 38	2°55'52	5♂44	4° 4	11° 2	28°40	12°56	6°41	11°56	4° 0	9° 9	10°D 5	11° 3	8°39	11°51	M26	
T 27	22 21 35	3°53'46	18°14	6° 0	12°12	29°18	13° 7	6°46	11°54	3°58	9° 8	10° 6	11° 0	8°46	11°49	T 27	
W28	22 25 31	4°51'41	0♂26	7°56	13°23	29°57	13°18	6°50	11°52	3°56	9° 8	10°R 6	10°56	8°53	11°46	W28	
T 29	22 29 28	5°49'39	12°26	9°51	14°33	0♂35	13°28	6°55	11°51	3°55	9° 7	10° 6	10°53	8°59	11°43	T 29	
F 30	22 33 24	6°47'38	24°18	11°44	15°44	1°13	13°39	6°59	11°49	3°53	9° 6	10° 4	10°50	9° 6	11°40	F 30	
S 31	22 37 21	7♂45'40	6♂9	13♂36	16♂54	1♂52	13♂50	7♂14	11°Y47	3°K51	9°Z 6	10♂10	10♂47	9♂13	11°K37	S 31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	18n 1	19n10	1s50	20n31	1s32	8n32	1n20	23n34	0n42	23n 2	0s10	11s 3	2n22	4n16	0s43	10s26	0s41
F 2	17 46	19 58	2 45	20 36	1 16	8 3	1 18	23 30	0 43	23 1	0 10	11 4	2 22	4 15	0 43	10 27	0 41
S 3	17 31	19 52	3 33	20 39	1 1	7 34	1 17	23 27	0 43	23 0	0 10	11 5	2 22	4 15	0 43	10 27	0 41
S 4	17 15	18 54	4 12	20 41	0 47	7 5	1 15	23 23	0 44	23 0	0 10	11 6	2 21	4 15	0 43	10 28	0 41
M 5	16 59	17 6	4 40	20 41	0 32	6 35	1 13	23 20	0 44	22 59	0 10	11 7	2 21	4 14	0 43	10 28	0 41
T 6	16 42	14 33	4 56	20 39	0 18	6 5	1 11	23 16	0 45	22 58	0 9	11 8	2 21	4 14	0 43	10 29	0 41
W 7	16 26	11 22	4 59	20 34	0 5	5 35	1 8	23 12	0 46	22 57	0 9	11 9	2 21	4 13	0 43	10 30	0 41
T 8	16 9	7 40	4 48	20 27	0n 8	5 5	1 6	23 7	0 46	22 57	0 9	11 10	2 20	4 13	0 43	10 30	0 41
F 9	15 52	3 36	4 23	20 18	0 20	4 35	1 4	23 3	0 47	22 56	0 9	11 12	2 20	4 13	0 43	10 31	0 41
S 10	15 34	0s41	3 45	20 6	0 32	4 4	1 1	22 58	0 47	22 55	0 9	11 13	2 20	4 12	0 43	10 31	0 41
S 11	15 17	5 0	2 55	19 51	0 42	3 34	0 59	22 53	0 48	22 54	0 9	11 14	2 20	4 12	0 43	10 32	0 41
M12	14 59	9 9	1 56	19 33	0 52	3 3	0 56	22 48	0 49	22 53	0 9	11 15	2 19	4 11	0 43	10 32	0 41
T 13	14 41	12 57	0 48	19 13	1 2	2 33	0 54	22 43	0 49	22 53	0 9	11 17	2 19	4 11	0 43	10 33	0 41
W14	14 22	16 8	0n23	18 51	1 10	2 2	0 51	22 38	0 50	22 52	0 9	11 18	2 19	4 10	0 43	10 34	0 41
T 15	14 4	18 28	1 35	18 25	1 17	1 31	0 48	22 32	0 50	22 51	0 9	11 19	2 19	4 10	0 43	10 34	0 41
F 16	13 45	19 44	2 42	17 57	1 24	1 0	0 46	22 27	0 51	22 50	0 9	11 21	2 18	4 9	0 43	10 35	0 41
S 17	13 26	19 45	3 41	17 27	1 29	0 29	0 43	22 21	0 51	22 49	0 9	11 22	2 18	4 9	0 43	10 35	0 41
S 18	13 7	18 26	4 26	16 55	1 34	0s 1	0 40	22 15	0 52	22 48	0 8	11 24	2 18	4 8	0 43	10 36	0 41
M19	12 47	15 52	4 53	16 21	1 38	0 32	0 37	22 9	0 53	22 47	0 8	11 25	2 18	4 8	0 43	10 37	0 41
T 20	12 28	12 16	5 1	15 45	1 41	1 3	0 34	22 2	0 53	22 46	0 8	11 27	2 17	4 7	0 43	10 37	0 41
W21	12 8	7 56	4 49	15 7	1 44	1 34	0 31	21 56	0 54	22 45	0 8	11 28	2 17	4 6	0 43	10 38	0 41
T 22	11 48	3 12	4 18	14 27	1 45	2 5	0 28	21 49	0 54	22 45	0 8	11 30	2 17	4 6	0 43	10 38	0 41
F 23	11 27	1n35	3 32	13 47	1 46	2 36	0 24	21 42	0 55	22 44	0 8	11 31	2 17	4 5	0 43	10 39	0 41
S 24	11 7	6 10	2 35	13 5	1 46	3 7	0 21	21 35	0 55	22 43	0 8	11 33	2 17	4 4	0 43	10 40	0 41
S 25	10 46	10 17	1 30	12 22	1 45	3 38	0 18	21 28	0 56	22 42	0 8	11 34	2 16	4 4	0 43	10 40	0 41
M26	10 26	13 48	0 23	11 38	1 44	4 9	0 14	21 21	0 56	22 41	0 8	11 36	2 16	4 3	0 43	10 41	0 41
T 27	10 5	16 34	0s43	10 53	1 42	4 39	0 11	21 13	0 57	22 40	0 8	11 38	2 16	4 2	0 43	10 42	0 41
W28	9 44	18 30	1 46	10 8	1 40	5 10	0 7	21 6	0 58	22 39	0 8	11 39	2 16	4 2	0 43	10 42	0 41
T 29	9 22	19 35	2 44	9 22	1 37	5 41	0 4	20 58	0 58	22 38	0 8	11 41	2 15	4 1	0 43	10 43	0 41
F 30	9 1	19 46	3 33	8 36	1 33	6 11	0 0	20 50	0 59	22 37	0 7	11 43	2 15	4 0	0 43	10 43	0 41
S 31	8n39	19n 5	4s13	7n50	1n30	6s41	0s 3	20n42	0n59	22n36	0s 7	11s45	2n15	4n 0	0s43	10s44	0s41

Julian Day Number = 2456505.5, Delta T = 67.12 sec
 Ecliptic obliquity = 23°26'08, Nutation = 0°00'13, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°55'48, Lahiri = 24°02'49

ASTRODIENST EPHEMERIS for the year 2013

geocentric

OCTOBER 2013

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 39 34	7♂58'48	20♂15	1♂56	22♂30	21♂15	18♂20	10♂0	10°R38	3°R 5	9♂1	8°R 7	9♂8	12♂41	10°R13	T 1
W 2	0 43 31	8°57'49	2♂41	3°11	23°37	21°52	18°27	10° 7	10°Y36	3°H 4	9° 1	8°M 3	9° 5	12°47	10°H10	W 2
T 3	0 47 27	9°56'52	15°23	4°24	24°44	22°28	18°33	10°13	10°33	3° 2	9° 2	7°58	9° 2	12°54	10° 8	T 3
F 4	0 51 24	10°55'57	28°22	5°35	25°51	23° 5	18°40	10°20	10°31	3° 1	9° 2	7°54	8°59	13° 1	10° 6	F 4
S 5	0 55 20	11°55'05	11♂37	6°45	26°58	23°42	18°46	10°27	10°28	3° 0	9° 3	7°50	8°56	13° 7	10° 3	S 5
S 6	0 59 17	12°54'14	25° 8	7°53	28° 4	24°18	18°52	10°33	10°26	2°59	9° 3	7°48	8°53	13°14	10° 1	S 6
M 7	1 3 13	13°53'26	8♂52	8°58	29°11	24°54	18°58	10°40	10°24	2°58	9° 4	7°D48	8°49	13°21	9°59	M 7
T 8	1 7 10	14°52'39	22°47	10° 2	0♂17	25°31	19° 3	10°47	10°21	2°56	9° 4	7°49	8°46	13°28	9°57	T 8
W 9	1 11 6	15°51'55	6♂50	11° 3	1°23	26° 7	19° 9	10°53	10°19	2°55	9° 5	7°50	8°43	13°34	9°55	W 9
T 10	1 15 3	16°51'12	20°58	12° 2	2°29	26°43	19°14	11° 0	10°16	2°54	9° 5	7°51	8°40	13°41	9°52	T 10
F 11	1 18 59	17°50'31	5♂9	12°57	3°35	27°19	19°19	11° 7	10°14	2°53	9° 6	7°52	8°37	13°48	9°50	F 11
S 12	1 22 56	18°49'52	19°22	13°50	4°40	27°56	19°24	11°14	10°12	2°52	9° 6	7°R53	8°33	13°54	9°48	S 12
S 13	1 26 53	19°49'14	3♂33	14°39	5°46	28°32	19°29	11°21	10° 9	2°51	9° 7	7°52	8°30	14° 1	9°46	S 13
M14	1 30 49	20°48'38	17°40	15°25	6°51	29° 8	19°34	11°27	10° 7	2°50	9° 8	7°51	8°27	14° 8	9°44	M14
T 15	1 34 46	21°48'04	1♂42	16° 6	7°56	29°43	19°38	11°34	10° 4	2°49	9° 9	7°49	8°24	14°15	9°42	T 15
W16	1 38 42	22°47'32	15°34	16°43	9° 1	0♂19	19°43	11°41	10° 2	2°48	9° 9	7°47	8°21	14°21	9°41	W16
T 17	1 42 39	23°47'01	29°16	17°15	10° 5	0°55	19°47	11°48	10° 0	2°47	9°10	7°45	8°18	14°28	9°39	T 17
F 18	1 46 35	24°46'32	12♂44	17°41	11° 9	1°31	19°51	11°55	9°57	2°47	9°11	7°44	8°14	14°35	9°37	F 18
S 19	1 50 32	25°46'06	25°57	18° 2	12°13	2° 6	19°54	12° 2	9°55	2°46	9°12	7°43	8°11	14°41	9°35	S 19
S 20	1 54 28	26°45'41	8♂54	18°16	13°17	2°42	19°58	12° 9	9°53	2°45	9°13	7°D42	8° 8	14°48	9°34	S 20
M21	1 58 25	27°45'18	21°34	18°R23	14°21	3°18	20° 1	12°16	9°51	2°44	9°14	7°43	8° 5	14°55	9°32	M21
T 22	2 2 22	28°44'58	4♂0	18°22	15°24	3°53	20° 5	12°23	9°48	2°43	9°15	7°43	8° 2	15° 1	9°30	T 22
W23	2 6 18	29°44'40	16°11	18°14	16°27	4°28	20° 8	12°30	9°46	2°43	9°15	7°44	7°58	15° 8	9°29	W23
T 24	2 10 15	0♂44'24	28°13	17°57	17°30	5° 4	20°11	12°38	9°44	2°42	9°16	7°45	7°55	15°15	9°27	T 24
F 25	2 14 11	1°44'10	10♂7	17°31	18°33	5°39	20°13	12°45	9°42	2°41	9°17	7°46	7°52	15°22	9°26	F 25
S 26	2 18 8	2°43'58	21°59	16°55	19°35	6°14	20°16	12°52	9°39	2°41	9°19	7°46	7°49	15°28	9°24	S 26
S 27	2 22 4	3°43'49	3♂53	16°11	20°37	6°49	20°18	12°59	9°37	2°40	9°20	7°R46	7°46	15°35	9°23	S 27
M28	2 26 1	4°43'41	15°53	15°19	21°38	7°24	20°20	13° 6	9°35	2°39	9°21	7°46	7°43	15°42	9°22	M28
T 29	2 29 57	5°43'36	28° 5	14°18	22°40	7°59	20°22	13°13	9°33	2°39	9°22	7°46	7°39	15°48	9°21	T 29
W30	2 33 54	6°43'33	10♂32	13°10	23°41	8°34	20°24	13°20	9°31	2°38	9°23	7°46	7°36	15°55	9°19	W30
T 31	2 37 51	7♂43'32	23♂17	11♂57	24♂41	9♂9	20♂25	13♂28	9°Y29	2°H38	9°Z24	7°D46	7♂33	16♂2	9°H18	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	3s10	9n54	5s 6	14s 4	2s 3	20s26	2s 6	15n37	1n16	22n 6	0s 4	12s46	2n10	3n32	0s44	11s 1
W 2	3 33	6 5	4 44	14 36	2 9	20 47	2 10	15 26	1 17	22 6	0 4	12 48	2 10	3 31	0 44	11 1
T 3	3 56	1 56	4 9	15 7	2 16	21 7	2 14	15 14	1 17	22 5	0 4	12 50	2 10	3 30	0 44	11 2
F 4	4 20	2s24	3 20	15 37	2 23	21 27	2 18	15 3	1 18	22 4	0 4	12 52	2 9	3 30	0 44	11 2
S 5	4 43	6 44	2 19	16 7	2 29	21 46	2 22	14 51	1 19	22 3	0 4	12 54	2 9	3 29	0 44	11 3
S 6	5 6	10 48	1 9	16 35	2 35	22 5	2 26	14 40	1 19	22 3	0 4	12 56	2 9	3 28	0 44	11 3
M 7	5 29	14 22	0n 6	17 1	2 41	22 24	2 29	14 28	1 20	22 2	0 4	12 59	2 9	3 27	0 44	11 4
T 8	5 52	17 9	1 22	17 27	2 46	22 42	2 33	14 16	1 20	22 1	0 4	13 1	2 9	3 26	0 44	11 4
W 9	6 15	18 56	2 33	17 51	2 51	22 59	2 37	14 5	1 21	22 1	0 4	13 3	2 9	3 25	0 44	11 4
T 10	6 37	19 32	3 36	18 14	2 56	23 16	2 40	13 53	1 21	22 0	0 4	13 5	2 9	3 24	0 44	11 5
F 11	7 0	18 55	4 26	18 35	3 0	23 33	2 44	13 41	1 22	21 59	0 3	13 7	2 9	3 23	0 44	11 5
S 12	7 23	17 6	4 59	18 55	3 4	23 48	2 47	13 29	1 22	21 59	0 3	13 9	2 9	3 22	0 44	11 5
S 13	7 45	14 15	5 15	19 13	3 8	24 4	2 50	13 17	1 23	21 58	0 3	13 12	2 8	3 21	0 44	11 6
M14	8 7	10 36	5 11	19 29	3 10	24 18	2 54	13 5	1 23	21 58	0 3	13 14	2 8	3 20	0 44	11 6
T 15	8 30	6 22	4 49	19 43	3 13	24 32	2 57	12 53	1 24	21 57	0 3	13 16	2 8	3 19	0 44	11 6
W16	8 52	1 51	4 10	19 56	3 14	24 46	3 0	12 41	1 25	21 56	0 3	13 18	2 8	3 18	0 44	11 7
T 17	9 14	2n43	3 17	20 5	3 15	24 59	3 3	12 28	1 25	21 56	0 3	13 20	2 8	3 17	0 44	11 7
F 18	9 36	7 5	2 14	20 13	3 14	25 11	3 6	12 16	1 26	21 56	0 3	13 23	2 8	3 17	0 44	11 7
S 19	9 57	11 2	1 5	20 17	3 13	25 23	3 9	12 4	1 26	21 55	0 3	13 25	2 8	3 16	0 44	11 8
S 20	10 19	14 22	0s 7	20 19	3 11	25 34	3 12	11 52	1 27	21 55	0 2	13 27	2 8	3 15	0 43	11 8
M21	10 40	16 56	1 16	20 18	3 8	25 45	3 15	11 39	1 27	21 54	0 2	13 29	2 8	3 14	0 43	11 8
T 22	11 2	18 38	2 21	20 13	3 3	25 54	3 17	11 27	1 28	21 54	0 2	13 31	2 8	3 13	0 43	11 9
W23	11 23	19 27	3 18	20 5	2 57	26 4	3 20	11 14	1 28	21 54	0 2	13 34	2 8	3 12	0 43	11 9
T 24	11 44	19 21	4 5	19 53	2 49	26 12	3 23	11 2	1 29	21 53	0 2	13 36	2 8	3 11	0 43	11 9
F 25	12 5	18 23	4 41	19 36	2 40	26 21	3 25	10 49	1 29	21 53	0 2	13 38	2 8	3 10	0 43	11 9
S 26	12 25	16 37	5 5	19 16	2 29	26 28	3 27	10 37	1 30	21 53	0 2	13 40	2 7	3 10	0 43	11 9
S 27	12 46	14 9	5 17	18 51	2 16	26 35	3 29	10 24	1 31	21 52	0 2	13 42	2 7	3 9	0 43	11 10
M28	13 6	11 4	5 14	18 21	2 1	26 41	3 31	10 12	1 31	21 52	0 2	13 45	2 7	3 8	0 43	11 10
T 29	13 26	7 29	4 58	17 48	1 45	26 47	3 33	9 59	1 32	21 52	0 1	13 47	2 7	3 7	0 43	11 10
W30	13 46	3 30	4 27	17 11	1 27	26 52	3 35	9 47	1 32	21 52	0 1	13 49	2 7	3 6	0 43	11 10
T 31	14s 5	0s45	3s43	16s30	1s 8	26s56	3s37	9n34	1n33	21n52	0s 1	13s51	2n 7	3n 6	0s43	11s10

Julian Day Number = 2456566.5, Delta T = 67.19 sec

Ecliptic obliquity = 23°26'08, Nutation = 0°00'11, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°55'56, Lahiri = 24°02'57

ASTRODIENST EPHEMERIS for the year 2013

geocentric

NOVEMBER 2013

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 41 47	8♈43'34	6♊24	10°R40	25♌42	9♍44	20♎27	13♏35	9°R27	2°R37	9♐25	7♑46	7♒30	16♓9	9°R17	F 1
S 2	2 45 44	9°43'37	19°54	9♍22	26°41	10°18	20°28	13°42	9°Y25	2°K37	9°27	7°46	7°27	16°15	9°K16	S 2
S 3	2 49 40	10°43'42	3♈44	8° 6	27°41	10°53	20°29	13°49	9°23	2°37	9°28	7°R46	7°24	16°22	9°15	S 3
M 4	2 53 37	11°43'49	17°53	6°53	28°40	11°28	20°30	13°56	9°21	2°36	9°29	7°46	7°20	16°29	9°14	M 4
T 5	2 57 33	12°43'58	2♌16	5°45	29°39	12° 2	20°30	14° 3	9°19	2°36	9°31	7°46	7°17	16°35	9°13	T 5
W 6	3 1 30	13°44'09	16°48	4°46	0♉37	12°36	20°31	14°11	9°17	2°36	9°32	7°45	7°14	16°42	9°13	W 6
T 7	3 5 26	14°44'22	1♉23	3°56	1°35	13°11	20°R31	14°18	9°15	2°36	9°33	7°44	7°11	16°49	9°12	T 7
F 8	3 9 23	15°44'36	15°54	3°17	2°32	13°45	20°31	14°25	9°13	2°35	9°35	7°44	7° 8	16°56	9°11	F 8
S 9	3 13 20	16°44'51	0♈18	2°50	3°29	14°19	20°30	14°32	9°12	2°35	9°36	7°43	7° 4	17° 2	9°10	S 9
S 10	3 17 16	17°45'08	14°31	2°34	4°26	14°53	20°30	14°39	9°10	2°35	9°38	7°D43	7° 1	17° 9	9°10	S 10
M 11	3 21 13	18°45'26	28°30	2°D30	5°21	15°27	20°29	14°47	9° 8	2°35	9°39	7°43	6°58	17°16	9° 9	M 11
T 12	3 25 9	19°45'46	12♈14	2°36	6°17	16° 1	20°28	14°54	9° 7	2°35	9°40	7°43	6°55	17°22	9° 9	T 12
W 13	3 29 6	20°46'07	25°45	2°54	7°11	16°34	20°27	15° 1	9° 5	2°35	9°42	7°44	6°52	17°29	9° 8	W 13
T 14	3 33 2	21°46'29	9°Y 1	3°21	8° 5	17° 8	20°26	15° 8	9° 3	2°D35	9°43	7°46	6°49	17°36	9° 8	T 14
F 15	3 36 59	22°46'53	22° 3	3°56	8°59	17°42	20°25	15°15	9° 2	2°35	9°45	7°47	6°45	17°43	9° 8	F 15
S 16	3 40 55	23°47'19	4♉53	4°40	9°52	18°15	20°23	15°23	9° 0	2°35	9°47	7°R47	6°42	17°49	9° 8	S 16
S 17	3 44 52	24°47'45	17°31	5°31	10°44	18°48	20°21	15°30	8°59	2°35	9°48	7°47	6°39	17°56	9° 7	S 17
M 18	3 48 49	25°48'14	29°57	6°28	11°35	19°22	20°19	15°37	8°57	2°35	9°50	7°46	6°36	18° 3	9° 7	M 18
T 19	3 52 45	26°48'44	12♈12	7°30	12°26	19°55	20°17	15°44	8°56	2°35	9°51	7°43	6°33	18° 9	9° 7	T 19
W 20	3 56 42	27°49'16	24°18	8°37	13°16	20°28	20°14	15°51	8°55	2°35	9°53	7°40	6°30	18°16	9°D 7	W 20
T 21	4 0 38	28°49'49	6♉17	9°48	14° 5	21° 1	20°12	15°58	8°53	2°36	9°55	7°37	6°26	18°23	9° 7	T 21
F 22	4 4 35	29°50'24	18°11	11° 3	14°54	21°34	20° 9	16° 5	8°52	2°36	9°57	7°33	6°23	18°30	9° 7	F 22
S 23	4 8 31	0♉51'01	0♈2	12°21	15°41	22° 7	20° 6	16°12	8°51	2°36	9°58	7°30	6°20	18°36	9° 8	S 23
S 24	4 12 28	1°51'39	11°54	13°41	16°28	22°39	20° 3	16°19	8°50	2°37	10° 0	7°27	6°17	18°43	9° 8	S 24
M 25	4 16 24	2°52'19	23°52	15° 3	17°14	23°12	19°59	16°26	8°48	2°37	10° 2	7°26	6°14	18°50	9° 8	M 25
T 26	4 20 21	3°53'00	6♈0	16°27	17°58	23°44	19°56	16°33	8°47	2°37	10° 3	7°D25	6°10	18°57	9° 8	T 26
W 27	4 24 18	4°53'43	18°23	17°53	18°42	24°17	19°52	16°40	8°46	2°38	10° 5	7°26	6° 7	19° 3	9° 9	W 27
T 28	4 28 14	5°54'28	1♉5	19°20	19°25	24°49	19°48	16°47	8°45	2°38	10° 7	7°27	6° 4	19°10	9° 9	T 28
F 29	4 32 11	6°55'14	14°10	20°48	20° 6	25°21	19°44	16°54	8°44	2°39	10° 9	7°29	6° 1	19°17	9°10	F 29
S 30	4 36 7	7♌56'01	27♈41	22♈16	20♉47	25♈53	19♉39	17♈1	8°Y43	2°K39	10♐11	7♑30	5♒58	19♓23	9°K10	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	14s24	5s 5	2s45	15s47	0s48	27s 0	3s38	9n22	1n33	21n52	0s 1	13s53	2n 7	3n 5	0s43	11s11
S 2	14 44	9 17	1 38	15 3	0 28	27 3	3 39	9 9	1 34	21 52	0 1	13 55	2 7	3 4	0 43	11 11
S 3	15 2	13 7	0 22	14 19	0 7	27 5	3 41	8 56	1 34	21 52	0 1	13 58	2 7	3 3	0 43	11 11
M 4	15 21	16 16	0n56	13 36	0n13	27 7	3 42	8 44	1 35	21 52	0 1	14 0	2 7	3 3	0 43	11 11
T 5	15 39	18 27	2 12	12 55	0 33	27 9	3 43	8 31	1 36	21 52	0 1	14 2	2 7	3 2	0 43	11 11
W 6	15 58	19 28	3 20	12 18	0 51	27 9	3 43	8 19	1 36	21 52	0 0	14 4	2 7	3 1	0 43	11 11
T 7	16 15	19 10	4 15	11 45	1 9	27 10	3 44	8 6	1 37	21 52	0 0	14 6	2 7	3 0	0 43	11 11
F 8	16 33	17 37	4 14	11 18	1 24	27 9	3 44	7 53	1 37	21 52	0 0	14 8	2 7	3 0	0 43	11 11
S 9	16 50	14 58	5 14	10 56	1 37	27 8	3 45	7 41	1 38	21 52	0 0	14 10	2 7	2 59	0 43	11 11
S 10	17 7	11 27	5 15	10 39	1 49	27 6	3 45	7 28	1 38	21 52	0n 0	14 13	2 7	2 58	0 43	11 11
M 11	17 24	7 21	4 56	10 29	1 59	27 4	3 45	7 15	1 39	21 53	0 0	14 15	2 7	2 58	0 43	11 11
T 12	17 40	2 56	4 21	10 24	2 7	27 2	3 45	7 3	1 40	21 53	0 0	14 17	2 7	2 57	0 43	11 11
W 13	17 57	1n33	3 32	10 24	2 13	26 58	3 44	6 50	1 40	21 53	0 0	14 19	2 7	2 56	0 43	11 11
T 14	18 12	5 55	2 33	10 29	2 17	26 54	3 44	6 38	1 41	21 54	0 1	14 21	2 7	2 56	0 43	11 11
F 15	18 28	9 55	1 26	10 38	2 20	26 50	3 43	6 25	1 41	21 54	0 1	14 23	2 7	2 55	0 43	11 11
S 16	18 43	13 24	0 16	10 51	2 22	26 45	3 42	6 12	1 42	21 54	0 1	14 25	2 7	2 55	0 43	11 11
S 17	18 58	16 12	0s53	11 7	2 22	26 40	3 40	6 0	1 42	21 55	0 1	14 27	2 7	2 54	0 43	11 11
M 18	19 12	18 11	1 59	11 27	2 21	26 34	3 39	5 47	1 43	21 55	0 1	14 29	2 7	2 54	0 43	11 11
T 19	19 26	19 18	2 59	11 49	2 20	26 28	3 37	5 35	1 44	21 56	0 1	14 31	2 7	2 53	0 43	11 11
W 20	19 40	19 30	3 49	12 13	2 17	26 21	3 35	5 22	1 44	21 56	0 1	14 33	2 7	2 53	0 43	11 11
T 21	19 54	18 49	4 29	12 38	2 14	26 13	3 33	5 10	1 45	21 57	0 2	14 35	2 7	2 52	0 43	11 11
F 22	20 7	17 18	4 56	13 5	2 10	26 6	3 31	4 57	1 45	21 57	0 2	14 37	2 7	2 52	0 43	11 11
S 23	20 20	15 4	5 11	13 33	2 5	25 58	3 28	4 45	1 46	21 58	0 2	14 39	2 7	2 51	0 43	11 11
S 24	20 32	12 12	5 13	14 2	2 0	25 49	3 25	4 33	1 46	21 58	0 2	14 41	2 7	2 51	0 43	11 11
M 25	20 44	8 49	5 1	14 31	1 55	25 40	3 22	4 20	1 47	21 59	0 2	14 43	2 7	2 50	0 43	11 10
T 26	20 55	5 2	4 36	15 1	1 49	25 31	3 19	4 8	1 48	22 0	0 2	14 45	2 7	2 50	0 43	11 10
W 27	21 7	0 57	3 58	15 31	1 43	25 21	3 15	3 56	1 48	22 0	0 2	14 47	2 7	2 50	0 42	11 10
T 28	21 17	3s17	3 7	16 1	1 36	25 11	3 11	3 44	1 49	22 1	0 3	14 49	2 7	2 49	0 42	11 10
F 29	21 28	7 30	2 4	16 30	1 30	25 0	3 7	3 31	1 49	22 2	0 3	14 51	2 7	2 49	0 42	11 10
S 30	21s38	11s29	0s54	17s 0	1n23	24s50	3s 2	3n19	1n50	22n 3	0n 3	14s53	2n 7	2n49	0s42	11s10

Julian Day Number = 2456597.5, Delta T = 67.22 sec

Ecliptic obliquity = 23°26'08, Nutation = 0°00'09, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°56'01, Lahiri = 24°03'01

ASTRODIENST EPHEMERIS for the year 2013

geocentric

DECEMBER 2013

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 40 4	8°56'51	11°13'38	23°14'46	21°32'26	26°17'25	19°R35	17°11'8	8°R42	2°44'40	10°13'13	7°R31	5°11'55	19°23'30	9°41'11	S 1
M 2	4 44 0	9°57'41	26° 2	25°16	22° 5	26°57	19°23'30	17°15	8°Y42	2°40	10°14	7°11'29	5°51	19°37	9°12	M 2
T 3	4 47 57	10°58'33	10°14'46	26°47	22°41	27°28	19°25	17°22	8°41	2°41	10°16	7°27	5°48	19°44	9°13	T 3
W 4	4 51 53	11°59'26	25°43	28°18	23°17	28° 0	19°20	17°28	8°40	2°42	10°18	7°22	5°45	19°50	9°13	W 4
T 5	4 55 50	13° 0'20	10°34'46	29°50	23°51	28°31	19°15	17°35	8°40	2°42	10°20	7°17	5°42	19°57	9°14	T 5
F 6	4 59 47	14° 1'15	25°44	1°12'21	24°24	29° 2	19°10	17°42	8°39	2°43	10°22	7°11	5°39	20° 4	9°15	F 6
S 7	5 3 43	15° 2'11	10°33'30	2°54	24°55	29°33	19° 4	17°49	8°38	2°44	10°24	7° 6	5°36	20°10	9°16	S 7
S 8	5 7 40	16° 3'07	24°56	4°26	25°25	0°14'4	18°59	17°55	8°38	2°45	10°26	7° 3	5°32	20°17	9°17	S 8
M 9	5 11 36	17° 4'04	9°11'0	5°58	25°53	0°35	18°53	18° 2	8°37	2°46	10°28	7° 1	5°29	20°24	9°18	M 9
T 10	5 15 33	18° 5'02	22°41	7°31	26°19	1° 6	18°47	18° 8	8°37	2°47	10°30	7°D 1	5°26	20°31	9°19	T 10
W 11	5 19 29	19° 6'00	6°11'1	9° 3	26°44	1°36	18°41	18°15	8°37	2°47	10°32	7° 2	5°23	20°37	9°21	W 11
T 12	5 23 26	20° 6'59	19° 1	10°36	27° 6	2° 7	18°34	18°22	8°36	2°48	10°34	7° 3	5°20	20°44	9°22	T 12
F 13	5 27 22	21° 7'58	18°45	12° 9	27°27	2°37	18°28	18°28	8°36	2°49	10°36	7°R 4	5°16	20°51	9°23	F 13
S 14	5 31 19	22° 8'58	14°16	13°42	27°46	3° 7	18°21	18°34	8°36	2°50	10°38	7° 4	5°13	20°57	9°25	S 14
S 15	5 35 16	23° 9'59	26°36	15°15	28° 3	3°37	18°15	18°41	8°36	2°51	10°40	7° 2	5°10	21° 4	9°26	S 15
M 16	5 39 12	24°11'00	8°11'47	16°49	28°18	4° 7	18° 8	18°47	8°35	2°52	10°42	6°57	5° 7	21°11	9°28	M 16
T 17	5 43 9	25°12'02	20°52	18°22	28°30	4°36	18° 1	18°53	8°35	2°54	10°44	6°51	5° 4	21°18	9°29	T 17
W 18	5 47 5	26°13'04	22°51	19°55	28°41	5° 6	17°54	19° 0	8°D35	2°55	10°46	6°42	5° 1	21°24	9°31	W 18
T 19	5 51 2	27°14'08	14°46	21°29	28°49	5°35	17°47	19° 6	8°35	2°56	10°48	6°32	4°57	21°31	9°32	T 19
F 20	5 54 58	28°15'11	26°39	23° 3	28°55	6° 4	17°40	19°12	8°35	2°57	10°50	6°21	4°54	21°38	9°34	F 20
S 21	5 58 55	29°16'16	8°12'30	24°37	28°58	6°33	17°32	19°18	8°36	2°58	10°52	6°11	4°51	21°44	9°36	S 21
S 22	6 2 51	0°13'17	20°23	26°11	28°R59	7° 2	17°25	19°24	8°36	3° 0	10°54	6° 2	4°48	21°51	9°38	S 22
M 23	6 6 48	1°18'27	2°11'21	27°45	28°57	7°30	17°18	19°30	8°36	3° 1	10°56	5°56	4°45	21°58	9°39	M 23
T 24	6 10 45	2°19'33	14°26	29°20	28°54	7°59	17°10	19°36	8°36	3° 2	10°59	5°52	4°42	22° 5	9°41	T 24
W 25	6 14 41	3°20'40	26°44	0°13'54	28°47	8°27	17° 2	19°42	8°37	3° 3	11° 1	5°50	4°38	22°11	9°43	W 25
T 26	6 18 38	4°21'48	9°11'19	2°29	28°38	8°55	16°55	19°48	8°37	3° 5	11° 3	5°D49	4°35	22°18	9°45	T 26
F 27	6 22 34	5°22'56	22°16	4° 5	28°27	9°23	16°47	19°54	8°38	3° 6	11° 5	5°50	4°32	22°25	9°47	F 27
S 28	6 26 31	6°24'05	5°11'39	5°40	28°13	9°50	16°39	19°59	8°38	3° 8	11° 7	5°R51	4°29	22°32	9°49	S 28
S 29	6 30 27	7°25'15	19°31	7°16	27°57	10°18	16°31	20° 5	8°39	3° 9	11° 9	5°50	4°26	22°38	9°52	S 29
M 30	6 34 24	8°26'25	3°11'52	8°52	27°38	10°45	16°23	20°10	8°39	3°11	11°11	5°47	4°22	22°45	9°54	M 30
T 31	6 38 20	9°27'36	18°14'40	10°13'28	27°17	11°11'12	16°25	20°11'16	8°Y40	3°12	11°13	5°11'41	4°11'19	22°52	9°56	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	decl lat	decl lat	decl lat
S 1	21s47	14s58	0n23	17s29	1n16	24s39	2s57	3n 7	1n51	22n 3	0n 3	14s55	2n 7	2n48	0s42	11s 9
M 2	21 56	17 39	1 40	17 58	1 9	24 27	2 52	2 55	1 51	22 4	0 3	14 57	2 7	2 48	0 42	11 9
T 3	22 5	19 13	2 52	18 26	1 2	24 16	2 47	2 43	1 52	22 5	0 3	14 58	2 7	2 48	0 42	11 9
W 4	22 13	19 29	3 53	18 53	0 55	24 4	2 41	2 31	1 52	22 6	0 3	15 0	2 7	2 47	0 42	11 9
T 5	22 21	18 22	4 38	19 20	0 48	23 52	2 35	2 19	1 53	22 7	0 4	15 2	2 8	2 47	0 42	11 9
F 6	22 29	16 0	5 5	19 46	0 40	23 40	2 28	2 7	1 54	22 8	0 4	15 4	2 8	2 47	0 42	11 8
S 7	22 36	12 37	5 10	20 12	0 33	23 27	2 21	1 55	1 54	22 8	0 4	15 6	2 8	2 47	0 42	11 8
S 8	22 42	8 33	4 56	20 36	0 26	23 15	2 14	1 44	1 55	22 9	0 4	15 7	2 8	2 47	0 42	11 7
M 9	22 48	4 7	4 24	21 0	0 19	23 2	2 6	1 32	1 56	22 10	0 4	15 9	2 8	2 46	0 42	11 7
T 10	22 54	0n26	3 37	21 22	0 12	22 49	1 58	1 20	1 56	22 11	0 4	15 11	2 8	2 46	0 42	11 7
W 11	22 59	4 51	2 40	21 44	0 4	22 36	1 50	1 9	1 57	22 12	0 4	15 13	2 8	2 46	0 42	11 6
T 12	23 4	8 56	1 36	22 4	0s 3	22 23	1 41	0 57	1 57	22 13	0 5	15 14	2 8	2 46	0 42	11 6
F 13	23 8	12 32	0 29	22 24	0 9	22 10	1 32	0 46	1 58	22 14	0 5	15 16	2 8	2 46	0 42	11 6
S 14	23 12	15 30	0s39	22 43	0 16	21 57	1 22	0 35	1 59	22 15	0 5	15 18	2 8	2 46	0 42	11 5
S 15	23 16	17 43	1 44	23 0	0 23	21 44	1 12	0 23	1 59	22 16	0 5	15 19	2 8	2 46	0 42	11 5
M 16	23 18	19 5	2 43	23 16	0 30	21 30	1 2	0 12	2 0	22 17	0 5	15 21	2 8	2 46	0 42	11 5
T 17	23 21	19 34	3 34	23 31	0 36	21 17	0 51	0 1	2 1	22 19	0 5	15 23	2 8	2 46	0 42	11 4
W 18	23 23	19 10	4 15	23 45	0 42	21 4	0 40	0s10	2 1	22 20	0 5	15 24	2 9	2 46	0 42	11 4
T 19	23 24	17 55	4 44	23 58	0 49	20 51	0 28	0 21	2 2	22 21	0 6	15 26	2 9	2 46	0 42	11 3
F 20	23 25	15 54	5 1	24 10	0 55	20 38	0 16	0 32	2 2	22 22	0 6	15 27	2 9	2 46	0 42	11 3
S 21	23 26	13 13	5 5	24 20	1 0	20 25	0 3	0 43	2 3	22 23	0 6	15 29	2 9	2 46	0 42	11 2
S 22	23 26	10 0	4 56	24 29	1 6	20 12	0n10	0 54	2 4	22 24	0 6	15 30	2 9	2 46	0 42	11 2
M 23	23 26	6 22	4 34	24 37	1 12	19 59	0 23	1 4	2 4	22 25	0 6	15 32	2 9	2 46	0 41	11 2
T 24	23 25	2 26	3 59	24 43	1 17	19 47	0 37	1 15	2 5	22 26	0 6	15 33	2 9	2 47	0 41	11 1
W 25	23 24	1s40	3 13	24 48	1 22	19 34	0 51	1 25	2 6	22 27	0 6	15 35	2 9	2 47	0 41	11 1
T 26	23 22	5 47	2 17	24 52	1 27	19 22	1 5	1 36	2 6	22 28	0 7	15 36	2 9	2 47	0 41	11 0
F 27	23 20	9 47	1 12	24 54	1 32	19 10	1 20	1 46	2 7	22 30	0 7	15 38	2 10	2 47	0 41	11 0
S 28	23 17	13 25	0 1	24 55	1 36	18 58	1 35	1 56	2 8	22 31	0 7	15 39	2 10	2 47	0 41	10 59
S 29	23 14	16 27	1n12	24 54	1 40	18 46	1 50	2 6	2 8	22 32	0 7	15 40	2 10	2 48	0 41	10 58
M 30	23 10	18 34	2 24	24 52	1 44	18 35	2 5	2 17	2 9	22 33	0 7	15 42	2 10	2 48	0 41	10 58
T 31	23s 6	19s31	3n27	24s49	1s48	18s24	2n21	2s26	2n10	22n34	0n 7	15s43	2n10	2n48	0s41	10s57

Julian Day Number = 2456627.5, Delta T = 67.25 sec
 Ecliptic obliquity = 23°26'07, Nutation = 0°00'09, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°56'05, Lahiri = 24°03'05