



Astrodienst Ephemeris Tables for the year 2180

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 2180
geocentric

JANUARY 2180

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	6 41 30	10 ³ 10'54	26 ²⁸ 15	28 ²³ 23	23 ²⁸ 48	14 ²⁷ 54	15 ¹⁹ 51	2 ²⁰ R 7	3 ³⁷ 9	8 ⁸ 4	24 ²⁰ R51	4 ²⁰ R57	3 ²⁷ 41	27 ²⁷ 30	12 ²⁰ R35	S 1
S 2	6 45 26	11 ¹² 0'3	8 ⁸ 54	29 ²⁹ 44	24 ²⁴ 58	15 ¹⁵ 37	15 ¹⁵ 43	2 ²⁰ 2	3 ¹⁰ 10	8 ⁸ 5	24 ²⁰ 50	4 ²⁰ 51	3 ³⁸	27 ²⁷ 36	12 ²⁰ 833	S 2
M 3	6 49 23	12 ¹² 13'13	21 ²¹ 15	1 ¹ 3	26 ²⁶ 8	16 ¹⁶ 19	15 ¹⁵ 35	1 ¹ 57	3 ¹¹ 11	8 ⁸ 7	24 ²⁰ 48	4 ²⁰ 48	3 ³⁵	27 ²⁷ 43	12 ²⁰ 32	M 3
T 4	6 53 19	13 ¹² 14'22	3 ³ Y20	2 ² 19	27 ²⁷ 17	17 ¹⁷ 2	15 ¹⁵ 27	1 ¹ 53	3 ¹² 12	8 ⁸ 8	24 ²⁰ 47	4 ²⁰ 45	3 ³²	27 ²⁷ 50	12 ²⁰ 31	T 4
W 5	6 57 16	14 ¹² 15'31	15 ¹⁵ 15	3 ³ 30	28 ²⁸ 27	17 ¹⁷ 45	15 ¹⁵ 19	1 ¹ 48	3 ¹⁴ 14	8 ⁸ 10	24 ²⁰ 46	4 ²⁰ D45	3 ²⁹	27 ²⁷ 56	12 ²⁰ 30	W 5
T 6	7 1 12	15 ¹⁵ 16'39	27 ²⁷ 5	4 ⁴ 38	29 ²⁹ 36	18 ¹⁸ 28	15 ¹⁵ 11	1 ¹ 43	3 ¹⁵ 15	8 ⁸ 11	24 ²⁰ 45	4 ²⁰ 45	3 ²⁵	28 ²⁸ 3	12 ²⁰ 29	T 6
F 7	7 5 9	16 ¹⁶ 17'48	8 ⁸ 55	5 ⁵ 40	0 ⁰ X45	19 ¹⁹ 11	15 ¹⁵ 3	1 ¹ 38	3 ¹⁶ 16	8 ⁸ 13	24 ²⁰ 43	4 ²⁰ 47	3 ²²	28 ²⁸ 10	12 ²⁰ 28	F 7
S 8	7 9 5	17 ¹⁷ 18'56	20 ²⁰ 49	6 ⁶ 36	1 ¹ 54	19 ¹⁹ 54	14 ¹⁴ 55	1 ¹ 34	3 ¹⁷ 17	8 ⁸ 14	24 ²⁰ 42	4 ²⁰ 49	3 ¹⁹	28 ²⁸ 16	12 ²⁰ 27	S 8
S 9	7 13 2	18 ¹⁸ 20'04	2 ² II54	7 ⁷ 25	3 ³ 3	20 ²⁰ 37	14 ¹⁴ 46	1 ¹ 29	3 ¹⁹ 19	8 ⁸ 16	24 ²⁰ 41	4 ²⁰ R49	3 ¹⁶	28 ²⁸ 23	12 ²⁰ 26	S 9
M10	7 16 59	19 ¹⁹ 21'12	15 ¹⁵ 12	8 ⁸ 7	4 ⁴ 12	21 ²¹ 20	14 ¹⁴ 38	1 ¹ 24	3 ²⁰ 20	8 ⁸ 18	24 ²⁰ 39	4 ²⁰ 49	3 ¹³	28 ²⁸ 30	12 ²⁰ 26	M10
T 11	7 20 55	20 ²⁰ 22'20	27 ²⁷ 46	8 ⁸ 41	5 ⁵ 21	22 ²² 3	14 ¹⁴ 30	1 ¹ 20	3 ²² 22	8 ⁸ 19	24 ²⁰ 38	4 ²⁰ 46	3 ¹⁰	28 ²⁸ 36	12 ²⁰ 25	T 11
W12	7 24 52	21 ²¹ 23'27	10 ¹⁰ 539	9 ⁹ 5	6 ⁶ 29	22 ²² 46	14 ¹⁴ 22	1 ¹ 15	3 ²³ 23	8 ⁸ 21	24 ²⁰ 37	4 ²⁰ 41	3 ⁶	28 ²⁸ 43	12 ²⁰ 24	W12
T 13	7 28 48	22 ²² 24'34	23 ²³ 50	9 ⁹ 18	7 ⁷ 37	23 ²³ 29	14 ¹⁴ 14	1 ¹ 11	3 ²⁵ 25	8 ⁸ 23	24 ²⁰ 36	4 ²⁰ 35	3 ³	28 ²⁸ 50	12 ²⁰ 24	T 13
F 14	7 32 45	23 ²³ 25'41	7 ⁷ Ω18	9 ⁹ R21	8 ⁸ 45	24 ²⁴ 12	14 ¹⁴ 6	1 ¹ 6	3 ²⁶ 26	8 ⁸ 24	24 ²⁰ 34	4 ²⁰ 26	3 ⁰	28 ²⁸ 56	12 ²⁰ 23	F 14
S 15	7 36 41	24 ²⁴ 26'47	21 ²¹ 1	9 ⁹ 12	9 ⁹ 53	24 ²⁴ 55	13 ¹³ 59	1 ¹ 2	3 ²⁸ 28	8 ⁸ 26	24 ²⁰ 33	4 ²⁰ 17	2 ⁵⁷	29 ²⁹ 3	12 ²⁰ 23	S 15
S 16	7 40 38	25 ²⁵ 27'53	4 ⁴ Π56	8 ⁸ 51	11 ¹¹ 0	25 ²⁵ 39	13 ¹³ 51	0 ⁰ 58	3 ³⁰ 30	8 ⁸ 28	24 ²⁰ 32	4 ²⁰ 9	2 ⁵⁴	29 ²⁹ 10	12 ²⁰ 22	S 16
M17	7 44 34	26 ²⁶ 28'59	18 ¹⁸ 57	8 ⁸ 19	12 ¹² 8	26 ²⁶ 22	13 ¹³ 43	0 ⁰ 54	3 ³¹ 31	8 ⁸ 30	24 ²⁰ 30	4 ²⁰ 2	2 ⁵¹	29 ²⁹ 16	12 ²⁰ 22	M17
T 18	7 48 31	27 ²⁷ 30'05	3 ³ Δ 4	7 ⁷ 35	13 ¹³ 15	27 ²⁷ 5	13 ¹³ 35	0 ⁰ 49	3 ³³ 33	8 ⁸ 32	24 ²⁰ 29	3 ⁵⁷	2 ⁴⁷	29 ²⁹ 23	12 ²⁰ 22	T 18
W19	7 52 28	28 ²⁸ 31'11	17 ¹⁷ 11	6 ⁶ 41	14 ¹⁴ 22	27 ²⁷ 49	13 ¹³ 28	0 ⁰ 45	3 ³⁵ 35	8 ⁸ 33	24 ²⁰ 28	3 ⁵⁴	2 ⁴⁴	29 ²⁹ 30	12 ²⁰ 21	W19
T 20	7 56 24	29 ²⁹ 32'17	1 ¹ Π18	5 ⁵ 38	15 ¹⁵ 29	28 ²⁸ 32	13 ¹³ 20	0 ⁰ 41	3 ³⁷ 37	8 ⁸ 35	24 ²⁰ 26	3 ⁵⁴ D54	2 ⁴¹	29 ²⁹ 36	12 ²⁰ 21	T 20
F 21	8 0 21	0 ⁰ ≈33'22	15 ¹⁵ 24	4 ⁴ 28	16 ¹⁶ 35	29 ²⁹ 15	13 ¹³ 13	0 ⁰ 37	3 ³⁹ 39	8 ⁸ 37	24 ²⁰ 25	3 ⁵⁴	2 ³⁸	29 ²⁹ 43	12 ²⁰ 21	F 21
S 22	8 4 17	1 ¹ 34'28	29 ²⁹ 26	3 ³ 13	17 ¹⁷ 41	29 ²⁹ 59	13 ¹³ 5	0 ⁰ 34	3 ⁴¹ 41	8 ⁸ 39	24 ²⁰ 24	3 ⁵⁵ R55	2 ³⁵	29 ²⁹ 50	12 ²⁰ D21	S 22
S 23	8 8 14	2 ² 35'33	13 ¹³ Δ25	1 ¹ 56	18 ¹⁸ 47	0 ⁰ 842	12 ¹² 58	0 ⁰ 30	3 ⁴³ 43	8 ⁸ 41	24 ²⁰ 23	3 ⁵⁵	2 ³¹	29 ²⁹ 56	12 ²⁰ 21	S 23
M24	8 12 10	3 ³ 36'38	27 ²⁷ 19	0 ⁰ 38	19 ¹⁹ 53	1 ¹ 26	12 ¹² 51	0 ⁰ 26	3 ⁴⁵ 45	8 ⁸ 43	24 ²⁰ 21	3 ⁵²	2 ²⁸	0 ⁰ 8 3	12 ²⁰ 21	M24
T 25	8 16 7	4 ⁴ 37'42	11 ¹¹ 8 6	29 ²⁹ 822	20 ²⁰ 59	2 ² 10	12 ¹² 44	0 ⁰ 22	3 ⁴⁷ 47	8 ⁸ 45	24 ²⁰ 20	3 ⁴⁷	2 ²⁵	0 ⁰ 10	12 ²⁰ 22	T 25
W26	8 20 4	5 ⁵ 38'46	24 ²⁴ 43	28 ²⁸ 11	22 ²² 4	2 ² 53	12 ¹² 37	0 ⁰ 19	3 ⁴⁹ 49	8 ⁸ 47	24 ²⁰ 19	3 ³⁹	2 ²²	0 ⁰ 16	12 ²⁰ 22	W26
T 27	8 24 0	6 ⁶ 39'49	8 ⁸ ≈ 7	27 ²⁷ 6	23 ²³ 9	3 ³ 37	12 ¹² 30	0 ⁰ 15	3 ⁵¹ 51	8 ⁸ 49	24 ²⁰ 18	3 ²⁹	2 ¹⁹	0 ⁰ 23	12 ²⁰ 22	T 27
F 28	8 27 57	7 ⁷ 40'51	21 ²¹ 16	26 ²⁶ 8	24 ²⁴ 13	4 ⁴ 21	12 ¹² 23	0 ⁰ 12	3 ⁵³ 53	8 ⁸ 51	24 ²⁰ 16	3 ¹⁷	2 ¹⁶	0 ⁰ 30	12 ²⁰ 22	F 28
S 29	8 31 53	8 ⁸ 41'52	4 ⁴ ✕ 8	25 ²⁵ 18	25 ²⁵ 18	5 ⁵ 4	12 ¹² 17	0 ⁰ 8	3 ⁵⁶ 56	8 ⁸ 53	24 ²⁰ 15	3 ⁵	2 ¹²	0 ⁰ 36	12 ²⁰ 23	S 29
S 30	8 35 50	9 ⁹ 42'53	16 ¹⁶ 43	24 ²⁴ 36	26 ²⁶ 22	5 ⁵ 48	12 ¹² 10	0 ⁰ 5	3 ⁵⁸ 58	8 ⁸ 55	24 ²⁰ 14	2 ⁵⁴	2 ⁹	0 ⁰ 43	12 ²⁰ 23	S 30
M31	8 39 46	10 ¹⁰ ≈43'52	29 ²⁹ ✕ 2	24 ²⁴ 8 4	27 ²⁷ ✕26	6 ⁶ 832	12 ¹² 5 4	0 ⁰ 5 2	4 ⁴ Y 0	8 ⁸ 57	24 ²⁰ 13	2 ⁵⁴ 44	2 ⁶	0 ⁰ 850	12 ²⁰ 824	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	decl	decl	decl	lat	decl	decl	decl	decl	lat
S 1	23s 1	7s55	5n 8	22s15	1s49	15s16	1s48	22s44	0s10	22n32	0n 4	22n21	1s 3	0n36	0s43	9s14	0s45	21n41	0n33	21s 6	20s52	13n25	13n55	1s46									
S 2	22 57	3 25	5 11	21 52	1 43	14 51	1 46	22 49	0 11	22 34	0 4	22 21	1 3	0 36	0 43	9 14	0 45	21 41	0 33	21 5	20 51	13 26	13 54	1 46									
M 3	22 51	1n 7	4 59	21 28	1 36	14 25	1 43	22 54	0 11	22 35	0 4	22 21	1 3	0 36	0 43	9 13	0 45	21 41	0 33	21 4	20 51	13 28	13 54	1 46									
T 4	22 45	5 31	4 34	21 3	1 28	13 59	1 41	22 59	0 12	22 36	0 4	22 21	1 3	0 37	0 43	9 12	0 45	21 42	0 33	21 4	20 50	13 30	13 54	1 46									
W 5	22 39	9 39	3 57	20 37	1 18	13 32	1 38	23 4	0 13	22 37	0 5	22 22	1 3	0 37	0 43	9 12	0 45	21 42	0 33	21 4	20 50	13 32	13 53	1 46									
T 6	22 32	13 23	3 11	20 11	1 8	13 5	1 35	23 8	0 13	22 38	0 5	22 22	1 2	0 38	0 43	9 11	0 45	21 42	0 33	21 4	20 49	13 33	13 53	1 46									
F 7	22 25	16 36	2 16	19 45	0 57	12 38	1 32	23 12	0 14	22 39	0 5	22 22	1 2	0 38	0 43	9 11	0 45	21 43	0 34	21 4	20 48	13 35	13 53	1 46									
S 8	22 18	19 9	1 15	19 20	0 45	12 11	1 29	23 16	0 15	22 40	0 5	22 22	1 2	0 39	0 43	9 10	0 45	21 43	0 34	21 4	20 48	13 37	13 53	1 46									
S 9	22 10	20 53	0 10	18 54	0 31	11 43	1 26	23 20	0 15	22 41	0 5	22 22	1 2	0 40	0 43	9 9	0 45	21 43	0 34	21 5	20 47	13 38	13 52	1 46									
M10	22 1	21 40	0s56	18 29	0 17	11 15	1 23	23 24	0 16	22 42	0 5	22 23	1 2	0 40	0 43	9 9	0 45	21 43	0 34	21 5	20 47	13 40	13 52	1 46									
T 11	21 52	21 23	2 1	18 6	0 2	10 47	1 20	23 27	0 17	22 43	0 5	22 23	1 2	0 41	0 43	9 8	0 45	21 44	0 34	21 4	20 46	13 42	13 52	1 46									
W12	21 43	19 59	3 1	17 44	0n15	10 18	1 16	23 30	0 17	22 44	0 6	22 23	1 2	0 41	0 43	9 8	0 45	21 44	0 34	21 3	20 45	13 44	13 52	1 46									
T 13	21 33	17 29	3 53	17 23	0 32	9 49	1 13	23 33	0 18	22 45	0 6	22 23	1 1	0 42	0 43	9 7	0 45	21 44	0 34	21 2	20 45	13 45	13 52	1 46									
F 14	21 23	14 1	4 33	17 5	0 50	9 21	1 9	23 36	0 19	22 46	0 6	22 23	1 1	0 43	0 43	9 6	0 45	21 45	0 34	21 0	20 44	13 47	13 51	1 46									
S 15	21 12	9 45	4 58	16 50	1 9	8 52	1 5	23 38	0 19	22 47	0 6	22 23	1 1	0 43	0 43	9 6	0 45	21 45	0 34	20 59	20 44	13 49	13 51	1 46									
S 16	21 2	4 56	5 7	16 37	1 28	8 22	1 1	23 41	0 20	22 48	0 6	22 24	1 1	0 44	0 43	9 5	0 45	21 45	0 34	20 57	20 43	13 50	13 51	1 46									
M17	20 50	0s11	4 56	16 27	1 46	7 53	0 57	23 43	0 21	22 49	0 6	22 24	1 1	0 45	0 43	9 4	0 45	21 46	0 34	20 56	20 42	13 52	13 51	1 46									
T 18	20 38	5 19	4 28	16 21	2 5	7 23	0 53	23 44	0 21	22 50	0 6	22 24	1 1	0 46	0 43	9 4	0 45	21 46	0 34	20 55	20 42	13 54	13 51	1 46									
W19	20 26	10 11	3 44	16 17	2 22	6 54	0 49	23 46	0 22	22 51	0 6	22 24	1 1	0 46	0 42	9 3	0 45	21 46	0 34	20 55	20 41	13 55	13 51	1 46									
T 20	20 14	14 30	2 46	16 17	2 38	6 24	0 44	23 47	0 23	22 51	0 7	22 24	1 0	0 47	0 42	9 2	0 45	21 46	0 34	20 54	20 41	13 57	13 51	1 46									
F 21	20 1	17 59	1 38	16 20	2 53	5 54	0 40	23 48	0 24	22 52	0 7	22 25	1 0	0 48	0 42	9 2	0 45	21 47	0 34	20 55	20 40	13 59	13 51	1 46									
S 22	19 47	20 24	0 24	16 25	3 5	5 24	0 35	23 49	0 24	22 53	0 7	22 25	1 0	0 49	0 42	9 1	0 45	21 47	0 35	20 55	20 39	14 1	13 51	1 46									
S 23	19 34	21 33	0n51	16 32	3 16	4 54	0 30	23 50	0 25	22 54	0 7	22 25	1 0	0 50	0 42	9 0	0 45	21 47	0 35	20 55	20 39	14 2	13 51	1 46									
M24	19 20	21 22	2 2	16 41	3 23	4 24	0 25	23 50	0 26	22 55	0 7	22 25	1 0	0 50	0 42	8 59	0 45	21 48	0 35	20 54	20 38	14 4	13 51	1 46									
T 25	19 5	19 53	3 5	16 52	3 29	3 53	0 21	23 50	0 26	22 56	0 7	22 25	1 0	0 51	0 42	8 59	0 45	21 48	0 35	20 53	20 37	14 6	13 51	1 46									
W26	18 50	17 17	3 57	17 3	3 31	3 23	0 15	23 50	0 27	22 56	0 7	22 25	0 59	0 52	0 42	8 58	0 45	21 48	0 35	20 52	20 37	14 7	13 51	1 46									
T 27	18 35	13 48	4 34	17 15	3 32	2 53	0 10	23 50	0 28	22 57	0 8	22 26	0 59	0 53	0 42	8 57	0 45	21 48	0 35	20 50	20 36	14 9	13 51	1 46									
F 28	18 20	9 43	4 56	17 28	3 30	2 22	0 5	23 49	0 28	22 58	0 8	22 26	0 59	0 54	0 42	8 56	0 45	21 49	0 35	20 48	20 36	14 10	13 51	1 46									
S 29	18 4	5 17	5 3	17 41	3 26	1 52	0n 0	23 48	0 29	22 59	0 8	22 26	0 59	0 55	0 42	8 56	0 45	21 49	0 35	20 45	20 35	14 12	13 52	1 46									
S 30	17 48	0 43	4 54	17 54	3 20	1 21	0 6	23 47	0 30	22 59	0 8	22 26	0 59	0 56	0 42	8 55	0 45	21 49	0 35	20 43	20 34	14 14	13 52	1 46									
M31	17s32	3n47	4n32	18s 6	3n13	0s51	0n11	23s46	0s30	23n 0	0n 8	22n26	0s59	0n57	0s42	8s54	0s45	21n50	0n35	20s41	20s34	14n15	13n52	1s46									

ASTRODIENST EPHEMERIS for the year 2180
geocentric

FEBRUARY 2180

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	8 43 43	11 ⁴⁴ 45'50	11 ¹⁷ 7	23 ³⁰ R41	28 ³⁸ 29	7 ¹⁶ 16	11 ⁰ R58	29 ⁰ R59	4 ³ 3	8 ⁵⁹ 59	24 ⁰ R11	2 ⁰ R37	2 ³ 3	0 ⁵⁶ 56	12 ⁸ 24	T 1
W 2	8 47 39	12 ⁰ 45'47	23 ⁰ 2	23 ³⁰ 26	29 ⁰ 32	8 ⁰ 0	11 ⁰ 52	29 ⁰ II56	4 ⁰ 5	9 ⁰ 1	24 ⁰ 10	2 ⁰ 33	2 ⁰ 0	1 ⁰ 3	12 ⁰ 25	W 2
T 3	8 51 36	13 ⁰ 46'43	4 ⁵ 51	23 ⁰ D20	0 ⁰ Y35	8 ⁰ 44	11 ⁰ 46	29 ⁰ 53	4 ⁰ 8	9 ⁰ 3	24 ⁰ 9	2 ⁰ 31	1 ⁰ 57	1 ⁰ 10	12 ⁰ 26	T 3
F 4	8 55 32	14 ⁰ 47'38	16 ⁰ 39	23 ⁰ 21	1 ⁰ 37	9 ⁰ 28	11 ⁰ 40	29 ⁰ 50	4 ⁰ 10	9 ⁰ 5	24 ⁰ 8	2 ⁰ D31	1 ⁰ 53	1 ⁰ 16	12 ⁰ 27	F 4
S 5	8 59 29	15 ⁰ 48'31	28 ⁰ 33	23 ⁰ 30	2 ⁰ 39	10 ⁰ 12	11 ⁰ 34	29 ⁰ 48	4 ⁰ 13	9 ⁰ 7	24 ⁰ 6	2 ⁰ R31	1 ⁰ 50	1 ⁰ 23	12 ⁰ 27	S 5
S 6	9 3 26	16 ⁰ 49'23	10 ⁰ II37	23 ⁰ 46	3 ⁰ 41	10 ⁰ 56	11 ⁰ 29	29 ⁰ 45	4 ⁰ 15	9 ⁰ 9	24 ⁰ 5	2 ⁰ 31	1 ⁰ 47	1 ⁰ 30	12 ⁰ 28	S 6
M 7	9 7 22	17 ⁰ 50'14	22 ⁰ 57	24 ⁰ 8	4 ⁰ 42	11 ⁰ 40	11 ⁰ 24	29 ⁰ 43	4 ⁰ 18	9 ⁰ 12	24 ⁰ 4	2 ⁰ 29	1 ⁰ 44	1 ⁰ 36	12 ⁰ 29	M 7
T 8	9 11 19	18 ⁰ 51'03	5 ⁰ 37	24 ⁰ 36	5 ⁰ 42	12 ⁰ 24	11 ⁰ 19	29 ⁰ 40	4 ⁰ 20	9 ⁰ 14	24 ⁰ 3	2 ⁰ 25	1 ⁰ 41	1 ⁰ 43	12 ⁰ 30	T 8
W 9	9 15 15	19 ⁰ 51'51	18 ⁰ 40	25 ⁰ 9	6 ⁰ 43	13 ⁰ 8	11 ⁰ 14	29 ⁰ 38	4 ⁰ 23	9 ⁰ 16	24 ⁰ 2	2 ⁰ 18	1 ⁰ 37	1 ⁰ 50	12 ⁰ 31	W 9
T 10	9 19 12	20 ⁰ 52'38	2 ⁰ 7	25 ⁰ 47	7 ⁰ 43	13 ⁰ 52	11 ⁰ 9	29 ⁰ 36	4 ⁰ 26	9 ⁰ 18	24 ⁰ 1	2 ⁰ 8	1 ⁰ 34	1 ⁰ 56	12 ⁰ 32	T 10
F 11	9 23 8	21 ⁰ 53'23	15 ⁰ 57	26 ⁰ 29	8 ⁰ 42	14 ⁰ 36	11 ⁰ 4	29 ⁰ 34	4 ⁰ 28	9 ⁰ 20	24 ⁰ 0	1 ⁰ 57	1 ⁰ 31	2 ⁰ 3	12 ⁰ 34	F 11
S 12	9 27 5	22 ⁰ 54'07	0 ⁰ 17	27 ⁰ 16	9 ⁰ 41	15 ⁰ 20	11 ⁰ 0	29 ⁰ 32	4 ⁰ 31	9 ⁰ 23	23 ⁰ 58	1 ⁰ 45	1 ⁰ 28	2 ⁰ 10	12 ⁰ 35	S 12
S 13	9 31 1	23 ⁰ 54'50	14 ⁰ 29	28 ⁰ 6	10 ⁰ 39	16 ⁰ 5	10 ⁰ 56	29 ⁰ 30	4 ⁰ 34	9 ⁰ 25	23 ⁰ 57	1 ⁰ 33	1 ⁰ 25	2 ⁰ 16	12 ⁰ 36	S 13
M14	9 34 58	24 ⁰ 55'32	28 ⁰ 59	29 ⁰ 0	11 ⁰ 37	16 ⁰ 49	10 ⁰ 52	29 ⁰ 28	4 ⁰ 37	9 ⁰ 27	23 ⁰ 56	1 ⁰ 22	1 ⁰ 22	2 ⁰ 23	12 ⁰ 38	M14
T 15	9 38 55	25 ⁰ 56'12	13 ⁰ 30	29 ⁰ 56	12 ⁰ 34	17 ⁰ 33	10 ⁰ 48	29 ⁰ 27	4 ⁰ 39	9 ⁰ 29	23 ⁰ 55	1 ⁰ 15	1 ⁰ 18	2 ⁰ 30	12 ⁰ 39	T 15
W16	9 42 51	26 ⁰ 56'51	27 ⁰ 56	0 ⁰ 56	13 ⁰ 31	18 ⁰ 18	10 ⁰ 44	29 ⁰ 25	4 ⁰ 42	9 ⁰ 31	23 ⁰ 54	1 ⁰ 10	1 ⁰ 15	2 ⁰ 36	12 ⁰ 41	W16
T 17	9 46 48	27 ⁰ 57'29	12 ⁰ 13	1 ⁰ 58	14 ⁰ 27	19 ⁰ 2	10 ⁰ 41	29 ⁰ 24	4 ⁰ 45	9 ⁰ 34	23 ⁰ 53	1 ⁰ 8	1 ⁰ 12	2 ⁰ 43	12 ⁰ 42	T 17
F 18	9 50 44	28 ⁰ 58'07	26 ⁰ 20	3 ⁰ 3	15 ⁰ 23	19 ⁰ 46	10 ⁰ 37	29 ⁰ 22	4 ⁰ 48	9 ⁰ 36	23 ⁰ 52	1 ⁰ 7	1 ⁰ 9	2 ⁰ 50	12 ⁰ 44	F 18
S 19	9 54 41	29 ⁰ 58'43	10 ⁰ 14	4 ⁰ 10	16 ⁰ 18	20 ⁰ 31	10 ⁰ 34	29 ⁰ 21	4 ⁰ 51	9 ⁰ 38	23 ⁰ 51	1 ⁰ 7	1 ⁰ 6	2 ⁰ 56	12 ⁰ 46	S 19
S 20	9 58 37	0 ⁰ 59'18	23 ⁰ 58	5 ⁰ 19	17 ⁰ 12	21 ⁰ 15	10 ⁰ 31	29 ⁰ 20	4 ⁰ 54	9 ⁰ 40	23 ⁰ 50	1 ⁰ 6	1 ⁰ 3	3 ⁰ 3	12 ⁰ 47	S 20
M21	10 2 34	1 ⁰ 59'52	7 ⁰ 31	6 ⁰ 30	18 ⁰ 6	22 ⁰ 0	10 ⁰ 29	29 ⁰ 19	4 ⁰ 57	9 ⁰ 43	23 ⁰ 49	1 ⁰ 3	0 ⁰ 59	3 ⁰ 10	12 ⁰ 49	M21
T 22	10 6 30	3 ⁰ 0'24	20 ⁰ 53	7 ⁰ 43	18 ⁰ 59	22 ⁰ 44	10 ⁰ 26	29 ⁰ 18	5 ⁰ 0	9 ⁰ 45	23 ⁰ 48	0 ⁰ 57	0 ⁰ 56	3 ⁰ 16	12 ⁰ 51	T 22
W23	10 10 27	4 ⁰ 0'55	4 ⁰ 5	8 ⁰ 58	19 ⁰ 52	23 ⁰ 29	10 ⁰ 24	29 ⁰ 17	5 ⁰ 3	9 ⁰ 47	23 ⁰ 47	0 ⁰ 47	0 ⁰ 53	3 ⁰ 23	12 ⁰ 53	W23
T 24	10 14 24	5 ⁰ 1'25	17 ⁰ 6	10 ⁰ 14	20 ⁰ 43	24 ⁰ 14	10 ⁰ 21	29 ⁰ 17	5 ⁰ 6	9 ⁰ 49	23 ⁰ 46	0 ⁰ 35	0 ⁰ 50	3 ⁰ 30	12 ⁰ 55	T 24
F 25	10 18 20	6 ⁰ 1'53	29 ⁰ 55	11 ⁰ 32	21 ⁰ 34	24 ⁰ 58	10 ⁰ 20	29 ⁰ 16	5 ⁰ 9	9 ⁰ 52	23 ⁰ 45	0 ⁰ 22	0 ⁰ 47	3 ⁰ 36	12 ⁰ 57	F 25
S 26	10 22 17	7 ⁰ 2'19	12 ⁰ 32	12 ⁰ 52	22 ⁰ 24	25 ⁰ 43	10 ⁰ 18	29 ⁰ 16	5 ⁰ 12	9 ⁰ 54	23 ⁰ 44	0 ⁰ 8	0 ⁰ 43	3 ⁰ 43	12 ⁰ 59	S 26
S 27	10 26 13	8 ⁰ 2'44	24 ⁰ 55	14 ⁰ 12	23 ⁰ 14	26 ⁰ 28	10 ⁰ 16	29 ⁰ 15	5 ⁰ 15	9 ⁰ 56	23 ⁰ 43	29 ⁰ 15	0 ⁰ 40	3 ⁰ 50	13 ⁰ 1	S 27
M28	10 30 10	9 ⁰ 3'07	7 ⁰ Y7	15 ⁰ 34	24 ⁰ 2	27 ⁰ 12	10 ⁰ 15	29 ⁰ 15	5 ⁰ 18	9 ⁰ 59	23 ⁰ 43	29 ⁰ 43	0 ⁰ 37	3 ⁰ 56	13 ⁰ 3	M28
T 29	10 34 6	10 ⁰ 3'28	19 ⁰ Y8	16 ⁰ 58	24 ⁰ Y50	27 ⁰ 57	10 ⁰ 14	29 ⁰ D15	5 ⁰ Y22	10 ⁰ Y1	23 ⁰ 42	29 ⁰ 13	0 ⁰ 34	4 ⁰ Y3	13 ⁰ Y5	T 29

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	17s15	8n 2	3n58	18s18	3n 5	0s21	0n17	23s44	0s31	23n 1	0n 8	22n27	0s58	0n58	0s42	8s53	0s45	21n50	0n35	20s40	20s33	14n17	13n52	1s45
W 2	16 58	11 56	3 14	18 30	2 56	0n10	0 23	23 42	0 32	23 1	0 8	22 27	0 58	0 59	0 42	8 53	0 45	21 50	0 35	20 39	20 32	14 19	13 52	1 45
T 3	16 40	15 21	2 22	18 41	2 46	0 40	0 29	23 40	0 33	23 2	0 8	22 27	0 58	1 0	0 42	8 52	0 45	21 50	0 35	20 39	20 32	14 20	13 53	1 45
F 4	16 23	18 8	1 23	18 51	2 35	1 10	0 35	23 38	0 33	23 3	0 8	22 27	0 58	1 1	0 42	8 51	0 45	21 51	0 35	20 38	20 31	14 22	13 53	1 45
S 5	16 5	20 10	0 21	19 0	2 24	1 41	0 41	23 35	0 34	23 3	0 9	22 27	0 58	1 2	0 42	8 50	0 45	21 51	0 35	20 39	20 30	14 24	13 53	1 45
S 6	15 47	21 18	0s43	19 8	2 13	2 11	0 47	23 33	0 35	23 4	0 9	22 27	0 57	1 3	0 42	8 49	0 45	21 51	0 35	20 39	20 30	14 25	13 53	1 45
M 7	15 28	21 28	1 46	19 16	2 2	2 41	0 53	23 30	0 35	23 4	0 9	22 28	0 57	1 4	0 42	8 49	0 45	21 51	0 36	20 38	20 29	14 27	13 54	1 45
T 8	15 10	20 32	2 46	19 22	1 50	3 11	1 0	23 26	0 36	23 5	0 9	22 28	0 57	1 5	0 42	8 48	0 45	21 52	0 36	20 37	20 29	14 28	13 54	1 45
W 9	14 51	18 30	3 39	19 28	1 39	3 40	1 6	23 23	0 37	23 5	0 9	22 28	0 57	1 6	0 42	8 47	0 45	21 52	0 36	20 36	20 28	14 30	13 54	1 45
T 10	14 31	15 26	4 21	19 32	1 27	4 10	1 13	23 19	0 38	23 6	0 9	22 28	0 57	1 7	0 42	8 46	0 45	21 52	0 36	20 34	20 27	14 32	13 55	1 45
F 11	14 12	11 26	4 49	19 35	1 16	4 39	1 19	23 15	0 38	23 6	0 9	22 28	0 57	1 8	0 42	8 45	0 45	21 52	0 36	20 32	20 27	14 33	13 55	1 45
S 12	13 52	6 44	5 0	19 37	1 5	5 9	1 26	23 11	0 39	23 7	0 9	22 28	0 56	1 9	0 42	8 44	0 45	21 53	0 36	20 29	20 26	14 35	13 56	1 45
S 13	13 32	1 36	4 53	19 38	0 54	5 38	1 33	23 6	0 40	23 7	0 10	22 29	0 56	1 10	0 42	8 44	0 45	21 53	0 36	20 27	20 25	14 36	13 56	1 45
M14	13 12	3s41	4 27	19 38	0 43	6 7	1 40	23 2	0 40	23 8	0 10	22 29	0 56	1 12	0 42	8 43	0 45	21 53	0 36	20 25	20 25	14 38	13 57	1 45
T 15	12 52	8 45	3 43	19 37	0 33	6 36	1 47	22 57	0 41	23 8	0 10	22 29	0 56	1 13	0 42	8 42	0 45	21 53	0 36	20 23	20 24	14 40	13 57	1 45
W16	12 31	13 18	2 46	19 34	0 22	7 4	1 54	22 51	0 42	23 9	0 10	22 29	0 56	1 14	0 42	8 41	0 45	21 54	0 36	20 22	20 23	14 41	13 57	1 45
T 17	12 10	17 3	1 38	19 30	0 12	7 33	2 1	22 46	0 43	23 9	0 10	22 29	0 55	1 15	0 42	8 40	0 45	21 54	0 36	20 22	20 23	14 43	13 58	1 45
F 18	11 49	19 43	0 25	19 25	0 3	8 1	2 8	22 40	0 43	23 9	0 10	22 30	0 55	1 16	0 42	8 39	0 45	21 54	0 36	20 22	20 22	14 44	13 58	1 45
S 19	11 28	21 10	0n48	19 18	0s 7	8 29	2 15	22 34	0 44	23 10	0 10	22 30	0 55	1 17	0 42	8 39	0 45	21 54	0 36	20 22	20 21	14 46	13 59	1 45
S 20	11 7	21 19	1 58	19 11	0 16	8 57	2 22	22 28	0 45	23 10	0 10	22 30	0 55	1 19	0 42	8 38	0 45	21 55	0 36	20 22	20 21	14 47	13 59	1 45
M21	10 45	20 13	3 0	19 2	0 25	9 24	2 30	22 22	0 45	23 10	0 10	22 30	0 55	1 20	0 42	8 37	0 45	21 55	0 36	20 21	20 20	14 49	14 0	1 45
T 22	10 23	18 0	0 31	18 51	0 33	9 51	2 37	22 15	0 46	23 11	0 10	22 30	0 54	1 21	0 41	8 36	0 45	21 55	0 36	20 20	20 19	14 50	14 1	1 45
W23	10 2	14 52	4 29	18 40	0 42	10 18	2 45	22 9	0 47	23 11	0 11	22 31	0 54	1 22	0 41	8 35	0 45	21 55	0 36	20 18	20 19	14 52	14 1	1 45
T 24	9 40	11 3	4 52	18 27	0 50	10 45	2 53	22 2	0 48	23 11	0 11	22 31	0 54	1 23	0 41	8 34	0 45	21 55	0 36	20 15	20 18	14 54	14 2	1 45
F 25	9 17	6 48	5 0	18 13	0 57	11 11	3 0	21 54	0 48	23 12	0 11	22 31	0 54	1 25	0 41	8 33	0 45	21 56	0 37	20 12	20 18	14 55	14 2	1 45
S 26	8 55	2 20	4 53	17 58	1 4	11 37	3 8	21 47	0 49	23 12	0 11	22 31	0 54	1 26	0 41	8 33	0 45	21 56	0 37	20 9	20 17	14 57	14 3	1 45
S 27	8 33	2n 9	4 32	17 41	1 11	12 3	3 16	21 39	0 50	23 12	0 11	22 31	0 53	1 27	0 41	8 32	0 45	21 56	0 37	20 7	20 16	14 58	14 4	1 45
M28	8 10	6 29	3 59	17 24	1 18	12 28	3 23	21 31	0 50	23 12	0 11	22 31	0 53	1 28	0 41	8 31	0 45	21 56	0 37	20 4	20 16	15 0	14 4	1 45
T 29	7s47	10n30	3n16	17s 4	1s24	12n53	3n31	21s23	0s51	23n12	0n11	22n32	0s53	1n30	0s41	8s30	0s45	21n57	0n37	20s 2	20s15	15n 1	14n 5	1s45

ASTRODIENST EPHEMERIS for the year 2180
geocentric

MARCH 2180

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 38 3	11° 3' 48"	18° 0'	18° 23'	25° 36'	28° 42'	10° 13'	29° 15'	5° 25'	10° 3'	23° 41'	29° 28'	0° 31'	4° 9'	13° 7'	W 1
T 2	10 41 59	12° 4' 05"	12° 48'	19° 48'	26° 22'	29° 27'	10° 12'	29° 15'	5° 28'	10° 5'	23° 40'	29° 24'	0° 28'	4° 16'	13° 10'	T 2
F 3	10 45 56	13° 4' 21"	24° 35'	21° 16'	27° 7'	0° 12'	10° 11'	29° 15'	5° 31'	10° 8'	23° 39'	29° 23'	0° 24'	4° 23'	13° 12'	F 3
S 4	10 49 53	14° 4' 34"	6° 12' 27"	22° 44'	27° 50'	0° 56'	10° 11'	29° 16'	5° 34'	10° 10'	23° 39'	29° 23'	0° 21'	4° 29'	13° 14'	S 4
S 5	10 53 49	15° 4' 46"	18° 29'	24° 13'	28° 33'	1° 41'	10° 11'	29° 16'	5° 38'	10° 12'	23° 38'	29° 23'	0° 18'	4° 36'	13° 17'	S 5
M 6	10 57 46	16° 4' 56"	0° 47'	25° 44'	29° 14'	2° 26'	10° 11'	29° 17'	5° 41'	10° 15'	23° 37'	29° 22'	0° 15'	4° 43'	13° 19'	M 6
T 7	11 1 42	17° 5' 03"	13° 25'	27° 16'	29° 55'	3° 11'	10° 11'	29° 18'	5° 44'	10° 17'	23° 36'	29° 19'	0° 12'	4° 49'	13° 22'	T 7
W 8	11 5 39	18° 5' 08"	26° 29'	28° 48'	0° 34'	3° 56'	10° 12'	29° 18'	5° 48'	10° 19'	23° 36'	29° 14'	0° 9'	4° 56'	13° 25'	W 8
T 9	11 9 35	19° 5' 12"	10° 0'	0° 22'	1° 12'	4° 41'	10° 12'	29° 19'	5° 51'	10° 21'	23° 35'	29° 6'	0° 5'	5° 3'	13° 27'	T 9
F 10	11 13 32	20° 5' 13"	23° 59'	1° 57'	1° 48'	5° 26'	10° 13'	29° 20'	5° 54'	10° 24'	23° 34'	28° 56'	0° 2'	5° 9'	13° 30'	F 10
S 11	11 17 28	21° 5' 12"	8° 23'	3° 34'	2° 23'	6° 11'	10° 14'	29° 22'	5° 58'	10° 26'	23° 34'	28° 46'	29° 15'	5° 16'	13° 33'	S 11
S 12	11 21 25	22° 5' 09"	23° 7'	5° 11'	2° 57'	6° 56'	10° 15'	29° 23'	6° 1'	10° 28'	23° 33'	28° 35'	29° 56'	5° 23'	13° 35'	S 12
M13	11 25 22	23° 5' 04"	8° 1'	6° 49'	3° 29'	7° 41'	10° 17'	29° 24'	6° 4'	10° 30'	23° 33'	28° 26'	29° 53'	5° 29'	13° 38'	M13
T 14	11 29 18	24° 4' 58"	22° 58'	8° 29'	4° 0'	8° 26'	10° 18'	29° 26'	6° 8'	10° 33'	23° 32'	28° 19'	29° 49'	5° 36'	13° 41'	T 14
W15	11 33 15	25° 4' 49"	7° 14' 48"	10° 10'	4° 29'	9° 12'	10° 20'	29° 27'	6° 11'	10° 35'	23° 32'	28° 15'	29° 46'	5° 43'	13° 44'	W15
T 16	11 37 11	26° 4' 39"	22° 25'	11° 52'	4° 57'	9° 57'	10° 22'	29° 29'	6° 14'	10° 37'	23° 31'	28° 13'	29° 43'	5° 49'	13° 47'	T 16
F 17	11 41 8	27° 4' 28"	6° 46'	13° 35'	5° 23'	10° 42'	10° 24'	29° 31'	6° 18'	10° 39'	23° 31'	28° 14'	29° 40'	5° 56'	13° 50'	F 17
S 18	11 45 4	28° 4' 15"	20° 47'	15° 19'	5° 47'	11° 27'	10° 26'	29° 33'	6° 21'	10° 41'	23° 30'	28° 14'	29° 37'	6° 3'	13° 53'	S 18
S 19	11 49 1	29° 4' 00"	4° 32'	17° 5'	6° 10'	12° 12'	10° 29'	29° 35'	6° 25'	10° 44'	23° 30'	28° 14'	29° 34'	6° 9'	13° 56'	S 19
M20	11 52 57	0° 3' 43"	17° 54'	18° 51'	6° 30'	12° 58'	10° 32'	29° 37'	6° 28'	10° 46'	23° 29'	28° 13'	29° 30'	6° 16'	13° 59'	M20
T 21	11 56 54	1° 3' 25"	1° 2'	20° 39'	6° 49'	13° 43'	10° 35'	29° 39'	6° 31'	10° 48'	23° 29'	28° 9'	29° 27'	6° 23'	14° 2'	T 21
W22	12 0 51	2° 3' 05"	13° 56'	22° 28'	7° 5'	14° 28'	10° 38'	29° 41'	6° 35'	10° 50'	23° 28'	28° 3'	29° 24'	6° 29'	14° 5'	W22
T 23	12 4 47	3° 2' 43"	26° 38'	24° 19'	7° 20'	15° 13'	10° 41'	29° 44'	6° 38'	10° 52'	23° 28'	27° 54'	29° 21'	6° 36'	14° 8'	T 23
F 24	12 8 44	4° 2' 19"	9° 8'	26° 11'	7° 32'	15° 59'	10° 44'	29° 46'	6° 42'	10° 54'	23° 28'	27° 44'	29° 18'	6° 43'	14° 12'	F 24
S 25	12 12 40	5° 1' 53"	21° 28'	28° 3'	7° 42'	16° 44'	10° 48'	29° 49'	6° 45'	10° 57'	23° 28'	27° 34'	29° 14'	6° 49'	14° 15'	S 25
S 26	12 16 37	6° 1' 26"	3° 38'	29° 58'	7° 51'	17° 29'	10° 52'	29° 52'	6° 49'	10° 59'	23° 27'	27° 24'	29° 11'	6° 56'	14° 18'	S 26
M27	12 20 33	7° 0' 56"	15° 39'	1° 53'	7° 56'	18° 15'	10° 56'	29° 55'	6° 52'	11° 1'	23° 27'	27° 16'	29° 8'	7° 3'	14° 21'	M27
T 28	12 24 30	8° 0' 24"	27° 34'	3° 50'	8° 0'	19° 0'	11° 0'	29° 58'	6° 55'	11° 3'	23° 27'	27° 9'	29° 5'	7° 9'	14° 25'	T 28
W29	12 28 26	8° 59' 51"	9° 23'	5° 48'	8° 1'	19° 46'	11° 4'	0° 1'	6° 59'	11° 5'	23° 27'	27° 5'	29° 2'	7° 16'	14° 28'	W29
T 30	12 32 23	9° 59' 15"	21° 9'	7° 46'	7° 59'	20° 31'	11° 9'	0° 4'	7° 2'	11° 7'	23° 26'	27° 3'	28° 59'	7° 23'	14° 32'	T 30
F 31	12 36 19	10° 58' 37"	2° 15' 57"	9° 46'	7° 56'	21° 16'	11° 14' 57"	0° 7'	7° 6'	11° 9'	23° 26'	27° 3'	28° 55'	7° 29'	14° 35'	F 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
W 1	7s25	14n 4	2n24	16s44	1s30	13n17	3n39	21s15	0s52	23n13	0n11	22n32	0s53	1n31	0s41	8s29
T 2	7 2 17	3 1 27	16 22	1 36	13 41	3 47	21 6	0 53	23 13	0 11	22 32	0 53	1 32	0 41	8 28	0 45
F 3	6 39	19 19	0 25	16 0	1 41	14 5	3 55	20 57	0 53	23 13	0 11	22 32	0 53	1 34	0 41	8 28
S 4	6 16	20 45	0s37	15 36	1 46	14 28	4 3	20 48	0 54	23 13	0 11	22 32	0 52	1 35	0 41	8 27
S 5	5 52	21 16	1 40	15 10	1 50	14 51	4 11	20 39	0 55	23 13	0 12	22 33	0 52	1 36	0 41	8 26
M 6	5 29	20 46	2 39	14 44	1 54	15 14	4 19	20 30	0 55	23 13	0 12	22 33	0 52	1 37	0 41	8 25
T 7	5 6	19 14	3 32	14 16	1 58	15 35	4 27	20 20	0 56	23 13	0 12	22 33	0 52	1 39	0 41	8 24
W 8	4 42	16 39	4 15	13 47	2 2	15 57	4 35	20 10	0 57	23 13	0 12	22 33	0 52	1 40	0 41	8 23
T 9	4 19	13 7	4 46	13 16	2 5	16 18	4 43	20 0	0 57	23 13	0 12	22 33	0 51	1 41	0 41	8 22
F 10	3 55	8 46	5 2	12 45	2 7	16 38	4 51	19 50	0 58	23 13	0 12	22 34	0 51	1 43	0 41	8 21
S 11	3 32	3 48	4 59	12 12	2 9	16 58	4 59	19 39	0 59	23 13	0 12	22 34	0 51	1 44	0 41	8 20
S 12	3 8	1s29	4 36	11 38	2 11	17 17	5 7	19 29	1 0	23 13	0 12	22 34	0 51	1 45	0 41	8 19
M13	2 45	6 46	3 54	11 3	2 12	17 36	5 15	19 18	1 0	23 13	0 12	22 34	0 51	1 47	0 41	8 18
T 14	2 21	11 39	2 56	10 26	2 13	17 54	5 23	19 7	1 1	23 13	0 12	22 34	0 50	1 48	0 41	8 17
W15	1 57	15 47	1 47	9 49	2 14	18 11	5 30	18 56	1 2	23 13	0 12	22 35	0 50	1 49	0 41	8 16
T 16	1 33	18 51	0 31	9 10	2 14	18 28	5 38	18 44	1 2	23 13	0 12	22 35	0 50	1 51	0 41	8 15
F 17	1 10	20 40	0n46	8 30	2 13	18 48	5 46	18 33	1 3	23 13	0 13	22 35	0 50	1 52	0 41	8 14
S 18	0 46	21 8	1 58	7 49	2 12	18 59	5 53	18 21	1 4	23 13	0 13	22 35	0 50	1 53	0 41	8 13
S 19	0 22	20 19	3 1	7 7	2 11	19 13	6 1	18 9	1 4	23 13	0 13	22 35	0 50	1 55	0 41	8 12
M20	0n 1	18 22	3 54	6 23	2 9	19 27	6 8	17 57	1 5	23 13	0 13	22 36	0 49	1 56	0 41	8 11
T 21	0 25	15 28	4 32	5 39	2 7	19 40	6 15	17 45	1 6	23 12	0 13	22 36	0 49	1 58	0 41	8 10
W22	0 49	11 53	4 56	4 53	2 4	19 52	6 22	17 32	1 6	23 12	0 13	22 36	0 49	1 59	0 41	8 9
T 23	1 13	7 50	5 5	4 7	2 1	20 3	6 29	17 19	1 7	23 12	0 13	22 36	0 49	2 0	0 41	8 8
F 24	1 36	3 30	5 0	3 19	1 57	20 14	6 35	17 7	1 8	23 12	0 13	22 36	0 49	2 2	0 41	8 7
S 25	2 0	0n54	4 40	2 30	1 53	20 23	6 41	16 54	1 8	23 12	0 13	22 36	0 48	2 3	0 41	8 6
S 26	2 23	5 14	4 7	1 40	1 48	20 31	6 47	16 40	1 9	23 11	0 13	22 37	0 48	2 4	0 41	8 5
M27	2 47	9 18	3 24	0 49	1 43	20 39	6 53	16 27	1 10	23 11	0 13	22 37	0 48	2 6	0 41	8 4
T 28	3 10	12 58	2 32	0n 2	1 37	20 45	6 59	16 14	1 10	23 11	0 13	22 37	0 48	2 7	0 41	8 3
W29	3 34	16 5	1 34	0 55	1 31	20 50	7 4	16 0	1 11	23 11	0 13	22 37	0 48	2 8	0 41	8 2
T 30	3 57	18 33	0 32	1 48	1 24	20 54	7 8	15 46	1 12	23 10	0 14	22 37	0 48	2 10	0 41	8 1
F 31	4n20	20n12	0s32	2n42	1s16	20n57	7n12	15s32	1s12	23n10	0n14	22n38	0s47	2n11	0s41	8s 5

Julian Day Number = 2517348.5, Delta T = 144.84 sec
Ecliptic obliquity = 23°24'53", Nutation = 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°15'29", Lahiri = 26°22'29"

ASTRODIENST EPHEMERIS for the year 2180

geocentric

APRIL 2180

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 40 16	11°57'56	14°49	11°47	7°R49	22°2	11°18	0°10	7°9	11°11	23°R26	27°M 5	28°M52	7°B36	14°B39	S 1
S 2	12 44 13	12°57'14	26°50	13°49	7°B41	22°47	11°24	0°14	7°12	11°13	23°B26	27° 6	28°49	7°42	14°42	S 2
M 3	12 48 9	13°56'29	9°B 6	15°52	7°29	23°33	11°29	0°17	7°16	11°15	23°26	27°R 7	28°46	7°49	14°46	M 3
T 4	12 52 6	14°55'42	21°41	17°55	7°16	24°18	11°34	0°21	7°19	11°17	23°26	27° 7	28°43	7°56	14°49	T 4
W 5	12 56 2	15°54'52	4°B41	19°59	6°59	25° 4	11°40	0°25	7°23	11°19	23°D26	27° 5	28°40	8° 2	14°53	W 5
T 6	12 59 59	16°54'00	18° 7	22° 3	6°41	25°49	11°45	0°29	7°26	11°21	23°26	27° 2	28°36	8° 9	14°56	T 6
F 7	13 3 55	17°53'06	2°B 3	24° 7	6°20	26°35	11°51	0°33	7°29	11°23	23°26	26°57	28°33	8°16	15° 0	F 7
S 8	13 7 52	18°52'10	16°26	26°11	5°56	27°20	11°57	0°37	7°33	11°25	23°26	26°51	28°30	8°22	15° 4	S 8
S 9	13 11 48	19°51'11	1°B13	28°14	5°31	28° 6	12° 3	0°41	7°36	11°27	23°26	26°46	28°27	8°29	15° 7	S 9
M10	13 15 45	20°50'10	16°17	0°B17	5° 3	28°51	12° 9	0°45	7°40	11°29	23°26	26°41	28°24	8°36	15°11	M10
T 11	13 19 42	21°49'08	1°B29	2°18	4°34	29°37	12°16	0°49	7°43	11°30	23°26	26°37	28°20	8°42	15°15	T 11
W12	13 23 38	22°48'03	16°38	4°18	4° 3	0°B22	12°22	0°53	7°46	11°32	23°26	26°35	28°17	8°49	15°19	W12
T 13	13 27 35	23°46'56	1°B35	6°16	3°30	1° 8	12°29	0°58	7°50	11°34	23°27	26°D35	28°14	8°56	15°22	T 13
F 14	13 31 31	24°45'48	16°14	8°11	2°56	1°53	12°36	1° 2	7°53	11°36	23°27	26°36	28°11	9° 2	15°26	F 14
S 15	13 35 28	25°44'38	0°B30	10° 4	2°20	2°39	12°43	1° 7	7°56	11°38	23°27	26°37	28° 8	9° 9	15°30	S 15
S 16	13 39 24	26°43'26	14°22	11°54	1°44	3°24	12°50	1°12	8° 0	11°39	23°27	26°39	28° 5	9°16	15°34	S 16
M17	13 43 21	27°42'13	27°50	13°41	1° 7	4°10	12°58	1°17	8° 3	11°41	23°28	26°R39	28° 1	9°22	15°38	M17
T 18	13 47 17	28°40'58	10°B56	15°24	0°29	4°55	13° 5	1°21	8° 6	11°43	23°28	26°39	27°58	9°29	15°41	T 18
W19	13 51 14	29°39'41	23°43	17° 4	29°B51	5°41	13°13	1°26	8° 9	11°45	23°28	26°37	27°55	9°36	15°45	W19
T 20	13 55 11	0°B38'22	6°B14	18°39	29°14	6°26	13°20	1°31	8°13	11°46	23°29	26°34	27°52	9°42	15°49	T 20
F 21	13 59 7	1°37'02	18°31	20°10	28°36	7°12	13°28	1°36	8°16	11°48	23°29	26°30	27°49	9°49	15°53	F 21
S 22	14 3 4	2°35'40	0°B38	21°37	27°59	7°58	13°36	1°42	8°19	11°49	23°29	26°26	27°45	9°56	15°57	S 22
S 23	14 7 0	3°34'16	12°37	22°59	27°23	8°43	13°44	1°47	8°22	11°51	23°30	26°22	27°42	10° 2	16° 1	S 23
M24	14 10 57	4°32'51	24°30	24°16	26°48	9°29	13°52	1°52	8°25	11°53	23°30	26°19	27°39	10° 9	16° 5	M24
T 25	14 14 53	5°31'23	6°B19	25°29	26°13	10°14	14° 1	1°58	8°29	11°54	23°31	26°16	27°36	10°15	16° 9	T 25
W26	14 18 50	6°29'54	18° 6	26°36	25°41	11° 0	14° 9	2° 3	8°32	11°56	23°31	26°15	27°33	10°22	16°13	W26
T 27	14 22 46	7°28'23	29°54	27°38	25°10	11°45	14°18	2° 9	8°35	11°57	23°32	26°D15	27°30	10°29	16°17	T 27
F 28	14 26 43	8°26'50	11°B45	28°35	24°40	12°31	14°27	2°14	8°38	11°59	23°32	26°16	27°26	10°35	16°21	F 28
S 29	14 30 39	9°25'14	23°41	29°27	24°13	13°16	14°35	2°20	8°41	12° 0	23°33	26°17	27°23	10°42	16°25	S 29
S 30	14 34 36	10°B23'37	5°B47	0°B13	23°B47	14°B 2	14°B44	2°B26	8°B44	12°B 1	23°B33	26°M18	27°M20	10°B49	16°B29	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	4n44	20n59	1s35	3n36	1s 8	20n58	7n16	15s18	1s13	23n10	0n14	22n38	0s47	2n12	0s41	S 1
S 2	5 7	20 48	2 35	4 31	1 0	20 58	7 20	15 4	1 14	23 9	0 14	22 38	0 47	2 14	0 41	S 2
M 3	5 30	19 38	3 28	5 27	0 51	20 57	7 22	14 50	1 14	23 9	0 14	22 38	0 47	2 15	0 41	M 3
T 4	5 53	17 30	4 14	6 23	0 42	20 55	7 24	14 35	1 15	23 9	0 14	22 38	0 47	2 16	0 41	T 4
W 5	6 15	14 25	4 48	7 19	0 32	20 51	7 26	14 21	1 16	23 8	0 14	22 38	0 47	2 18	0 41	W 5
T 6	6 38	10 30	5 7	8 14	0 22	20 45	7 27	14 6	1 16	23 8	0 14	22 38	0 46	2 19	0 41	T 6
F 7	7 1	5 55	5 10	9 10	0 12	20 38	7 27	13 51	1 17	23 7	0 14	22 39	0 46	2 20	0 41	F 7
S 8	7 23	0 51	4 53	10 5	0 1	20 30	7 27	13 36	1 18	23 7	0 14	22 39	0 46	2 22	0 41	S 8
S 9	7 45	4s25	4 17	11 0	0n10	20 20	7 26	13 21	1 18	23 6	0 14	22 39	0 46	2 23	0 41	S 9
M10	8 8	9 31	3 22	11 54	0 21	20 9	7 24	13 6	1 19	23 6	0 14	22 39	0 46	2 24	0 41	M10
T 11	8 30	14 3	2 13	12 46	0 33	19 56	7 21	12 50	1 19	23 5	0 14	22 39	0 45	2 26	0 41	T 11
W12	8 52	17 39	0 54	13 38	0 44	19 42	7 18	12 35	1 20	23 5	0 14	22 39	0 45	2 27	0 41	W12
T 13	9 13	20 1	0n27	14 28	0 55	19 27	7 13	12 19	1 21	23 4	0 14	22 39	0 45	2 28	0 41	T 13
F 14	9 35	20 57	1 46	15 16	1 6	19 10	7 8	12 3	1 21	23 4	0 15	22 40	0 45	2 30	0 41	F 14
S 15	9 56	20 30	2 55	16 3	1 17	18 52	7 2	11 48	1 22	23 3	0 15	22 40	0 45	2 31	0 41	S 15
S 16	10 18	18 47	3 53	16 47	1 28	18 33	6 55	11 32	1 22	23 2	0 15	22 40	0 45	2 32	0 41	S 16
M17	10 39	16 4	4 35	17 29	1 38	18 12	6 48	11 16	1 23	23 2	0 15	22 40	0 45	2 34	0 41	M17
T 18	11 0	12 37	5 2	18 9	1 48	17 51	6 39	10 59	1 23	23 1	0 15	22 40	0 44	2 35	0 41	T 18
W19	11 20	8 40	5 14	18 47	1 57	17 29	6 30	10 43	1 24	23 0	0 15	22 40	0 44	2 36	0 41	W19
T 20	11 41	4 25	5 10	19 22	2 6	17 6	6 20	10 27	1 25	23 0	0 15	22 40	0 44	2 37	0 41	T 20
F 21	12 1	0 4	4 51	19 55	2 13	16 43	6 10	10 11	1 25	22 59	0 15	22 40	0 44	2 39	0 41	F 21
S 22	12 22	4n14	4 20	20 25	2 21	16 19	5 58	9 54	1 26	22 58	0 15	22 40	0 44	2 40	0 41	S 22
S 23	12 42	8 19	3 38	20 52	2 27	15 55	5 47	9 37	1 26	22 57	0 15	22 41	0 44	2 41	0 41	S 23
M24	13 1	12 4	2 46	21 17	2 33	15 30	5 34	9 21	1 27	22 57	0 15	22 41	0 43	2 42	0 41	M24
T 25	13 21	15 19	1 48	21 39	2 37	15 6	5 21	9 4	1 27	22 56	0 15	22 41	0 43	2 44	0 41	T 25
W26	13 40	17 55	0 45	21 59	2 41	14 42	5 8	8 47	1 28	22 55	0 15	22 41	0 43	2 45	0 41	W26
T 27	13 59	19 47	0s20	22 16	2 43	14 18	4 55	8 30	1 28	22 54	0 15	22 41	0 43	2 46	0 41	T 27
F 28	14 18	20 46	1 25	22 30	2 45	13 54	4 41	8 14	1 29	22 53	0 15	22 41	0 43	2 47	0 41	F 28
S 29	14 37	20 50	2 26	22 42	2 46	13 31	4 27	7 57	1 29	22 52	0 16	22 41	0 43	2 48	0 41	S 29
S 30	14n55	19n56	3s22	22n52	2n45	13n 8	4n12	7s40	1s30	22n52	0n16	22n41	0s43	2n50	0s41	S 30

Julian Day Number = 2517379.5, Delta T = 144.91 sec
 Ecliptic obliquity = 23°24'53, Nutation = 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°15'33, Lahiri = 26°22'33

ASTRODIENST EPHEMERIS for the year 2180

geocentric

MAY 2180

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 38 33	11°8'21.58	18°6' 6	0°11'54	23°R24	14°47	14°53	2°31	8°47	12°3	23°34	26°19	27°17	10°55	16°33	M 1
T 2	14 42 29	12°20'17	0°41	1°30	23°Y 3	15°33	15° 3	2°37	8°50	12° 4	23°35	26°20	27°14	11° 2	16°37	T 2
W 3	14 46 26	13°18'34	13°37	1°59	22°44	16°18	15°12	2°43	8°53	12° 5	23°35	26°R21	27°11	11° 9	16°41	W 3
T 4	14 50 22	14°16'48	26°57	2°24	22°27	17° 4	15°21	2°49	8°56	12° 7	23°36	26°20	27° 7	11°15	16°45	T 4
F 5	14 54 19	15°15'01	10°43	2°43	22°13	17°49	15°31	2°55	8°59	12° 8	23°37	26°20	27° 4	11°22	16°49	F 5
S 6	14 58 15	16°13'12	24°56	2°56	22° 1	18°34	15°40	3° 2	9° 2	12° 9	23°37	26°18	27° 1	11°29	16°53	S 6
S 7	15 2 12	17°11'20	9°33	3° 5	21°52	19°20	15°50	3° 8	9° 5	12°11	23°38	26°17	26°58	11°35	16°57	S 7
M 8	15 6 8	18° 9'27	24°30	3°R 7	21°45	20° 5	16° 0	3°14	9° 7	12°12	23°39	26°16	26°55	11°42	17° 1	M 8
T 9	15 10 5	19° 7'32	9°39	3° 5	21°41	20°51	16°10	3°20	9°10	12°13	23°40	26°16	26°51	11°49	17° 5	T 9
W10	15 14 2	20° 5'35	24°52	2°58	21°D39	21°36	16°20	3°27	9°13	12°14	23°40	26°D16	26°48	11°55	17° 9	W10
T 11	15 17 58	21° 3'37	9°58	2°46	21°39	22°21	16°30	3°33	9°16	12°15	23°41	26°16	26°45	12° 2	17°13	T 11
F 12	15 21 55	22° 1'37	24°49	2°29	21°42	23° 7	16°40	3°40	9°19	12°16	23°42	26°16	26°42	12° 9	17°17	F 12
S 13	15 25 51	22°59'36	9°319	2° 9	21°47	23°52	16°50	3°46	9°21	12°17	23°43	26°16	26°39	12°15	17°21	S 13
S 14	15 29 48	23°57'34	23°23	1°44	21°54	24°37	17° 1	3°53	9°24	12°18	23°44	26°17	26°36	12°22	17°25	S 14
M15	15 33 44	24°55'30	7°0	1°17	22° 3	25°22	17°11	3°59	9°27	12°19	23°45	26°17	26°32	12°29	17°29	M15
T 16	15 37 41	25°53'25	20°12	0°47	22°15	26° 8	17°22	4° 6	9°29	12°20	23°46	26°17	26°29	12°35	17°33	T 16
W17	15 41 38	26°51'19	3°0	0°15	22°29	26°53	17°33	4°13	9°32	12°21	23°47	26°17	26°26	12°42	17°37	W17
T 18	15 45 34	27°49'11	15°28	29°841	22°44	27°38	17°43	4°19	9°34	12°22	23°48	26°17	26°23	12°48	17°41	T 18
F 19	15 49 31	28°47'02	27°40	29° 6	23° 2	28°23	17°54	4°26	9°37	12°23	23°49	26°17	26°20	12°55	17°45	F 19
S 20	15 53 27	29°44'52	9°40	28°31	23°21	29° 8	18° 5	4°33	9°39	12°24	23°50	26°17	26°17	13° 2	17°49	S 20
S 21	15 57 24	0°11'42'41	21°33	27°56	23°43	29°54	18°16	4°40	9°42	12°24	23°51	26°18	26°13	13° 8	17°53	S 21
M22	16 1 20	1°40'29	3°821	27°22	24° 6	0°Y39	18°27	4°47	9°44	12°25	23°52	26°18	26°10	13°15	17°56	M22
T 23	16 5 17	2°38'15	15° 8	26°49	24°30	1°24	18°38	4°54	9°47	12°26	23°53	26°19	26° 7	13°22	18° 0	T 23
W24	16 9 13	3°36'00	26°56	26°18	24°57	2° 9	18°49	5° 1	9°49	12°27	23°54	26°R19	26° 4	13°28	18° 4	W24
T 25	16 13 10	4°33'44	8°148	25°50	25°25	2°54	19° 1	5° 8	9°51	12°27	23°55	26°19	26° 1	13°35	18° 8	T 25
F 26	16 17 6	5°31'27	20°46	25°25	25°54	3°39	19°12	5°15	9°54	12°28	23°56	26°18	25°57	13°42	18°12	F 26
S 27	16 21 3	6°29'08	2°53	25° 3	26°25	4°23	19°24	5°22	9°56	12°29	23°57	26°17	25°54	13°48	18°16	S 27
S 28	16 25 0	7°26'48	15° 9	24°45	26°57	5° 8	19°35	5°30	9°58	12°29	23°58	26°15	25°51	13°55	18°20	S 28
M29	16 28 56	8°24'27	27°38	24°30	27°31	5°53	19°47	5°37	10° 0	12°30	23°59	26°14	25°48	14° 2	18°24	M29
T 30	16 32 53	9°22'04	10°121	24°20	28° 6	6°38	19°58	5°44	10° 2	12°30	24° 1	26°12	25°45	14° 8	18°27	T 30
W31	16 36 49	10°11'19'39	23°120	24°14	28°Y42	7°Y23	20°10	5°51	10°Y 4	12°Y31	24°2	26°11	25°42	14°15	18°31	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	15n14	18n 4	4s 9	22n59	2n43	12n46	3n58	7s22	1s30	22n51	0n16	22n41	0s42	2n51	0s41	7s45	0s46
T 2	15 31	15 19	4 46	23 4	2 41	12 25	3 44	7 5	1 31	22 50	0 16	22 41	0 42	2 52	0 41	7 45	0 46
W 3	15 49	11 46	5 10	23 6	2 37	12 4	3 29	6 48	1 31	22 49	0 16	22 41	0 42	2 53	0 41	7 44	0 46
T 4	16 6	7 32	5 17	23 6	2 32	11 45	3 15	6 31	1 32	22 48	0 16	22 41	0 42	2 54	0 41	7 44	0 46
F 5	16 24	2 48	5 7	23 3	2 25	11 26	3 1	6 14	1 32	22 47	0 16	22 41	0 42	2 55	0 41	7 43	0 46
S 6	16 40	2s15	4 39	22 59	2 18	11 9	2 46	5 56	1 33	22 46	0 16	22 41	0 42	2 57	0 41	7 43	0 47
S 7	16 57	7 20	3 51	22 52	2 9	10 52	2 32	5 39	1 33	22 44	0 16	22 41	0 42	2 58	0 41	7 42	0 47
M 8	17 13	12 5	2 48	22 42	1 59	10 37	2 19	5 21	1 34	22 43	0 16	22 41	0 41	2 59	0 41	7 42	0 47
T 9	17 29	16 8	1 31	22 31	1 48	10 23	2 5	5 4	1 34	22 42	0 16	22 41	0 41	3 0	0 41	7 41	0 47
W10	17 45	19 5	0 8	22 18	1 36	10 9	1 52	4 46	1 34	22 41	0 16	22 41	0 41	3 1	0 41	7 41	0 47
T 11	18 0	20 41	1n15	22 3	1 23	9 57	1 39	4 29	1 35	22 40	0 16	22 41	0 41	3 2	0 41	7 41	0 47
F 12	18 15	20 47	2 32	21 45	1 9	9 47	1 26	4 11	1 35	22 39	0 16	22 41	0 41	3 3	0 41	7 40	0 47
S 13	18 30	19 28	3 37	21 27	0 53	9 37	1 13	3 54	1 36	22 38	0 16	22 41	0 41	3 4	0 41	7 40	0 47
S 14	18 45	17 0	4 27	21 6	0 38	9 28	1 1	3 36	1 36	22 36	0 16	22 41	0 41	3 5	0 41	7 40	0 47
M15	18 59	13 39	5 0	20 45	0 21	9 21	0 49	3 19	1 36	22 35	0 17	22 41	0 40	3 6	0 41	7 39	0 47
T 16	19 13	9 44	5 16	20 22	0 4	9 14	0 38	3 1	1 37	22 34	0 17	22 41	0 40	3 7	0 42	7 39	0 47
W17	19 26	5 29	5 16	19 58	0s13	9 9	0 27	2 43	1 37	22 32	0 17	22 41	0 40	3 8	0 42	7 39	0 47
T 18	19 39	1 6	5 0	19 34	0 31	9 5	0 16	2 26	1 37	22 31	0 17	22 41	0 40	3 9	0 42	7 38	0 47
F 19	19 52	3n14	4 32	19 9	0 48	9 1	0 5	2 8	1 38	22 30	0 17	22 40	0 40	3 10	0 42	7 38	0 47
S 20	20 5	7 22	3 51	18 44	1 6	8 59	0s 5	1 51	1 38	22 28	0 17	22 40	0 40	3 11	0 42	7 38	0 47
S 21	20 17	11 12	3 2	18 20	1 23	8 58	0 15	1 33	1 38	22 27	0 17	22 40	0 40	3 12	0 42	7 37	0 47
M22	20 28	14 34	2 4	17 56	1 40	8 57	0 24	1 15	1 39	22 25	0 17	22 40	0 40	3 13	0 42	7 37	0 47
T 23	20 40	17 20	1 2	17 33	1 56	8 58	0 34	0 58	1 39	22 24	0 17	22 40	0 39	3 14	0 42	7 37	0 47
W24	20 51	19 24	0s 3	17 11	2 11	8 59	0 43	0 40	1 39	22 23	0 17	22 40	0 39	3 15	0 42	7 37	0 47
T 25	21 2	20 37	1 9	16 50	2 26	9 1	0 51	0 23	1 40	22 21	0 17	22 40	0 39	3 16	0 42	7 36	0 47
F 26	21 12	20 54	2 12	16 31	2 40	9 4	0 59	0 5	1 40	22 19	0 17	22 39	0 39	3 16	0 42	7 36	0 47
S 27	21 22	20 14	3 9	16 13	2 52	9 8	1 7	0n13	1 40	22 18	0 17	22 39	0 39	3 17	0 42	7 36	0 47
S 28	21 32	18 36	3 59	15 57	3 4	9 13	1 15	0 30	1 40	22 16	0 17	22 39	0 39	3 18	0 42	7 36	0 47
M29	21 41	16 4	4 38	15 44	3 15	9 18	1 22	0 48	1 41	22 15	0 17	22 39	0 39	3 19	0 42	7 36	0 47
T 30	21 50	12 44	5 5	15 32	3 24	9 24	1 29	1 5	1 41	22 13	0 17	22 39	0 39	3 20	0 42	7 35	0 47
W31	21n58	8n44	5s16	15n23	3s32	9n30	1s36	1n23	1s41	22n11	0n18	22n39	0s39	3n21	0s42	7s35	0s47

Julian Day Number = 2517409.5, Delta T = 144.98 sec
 Ecliptic obliquity = 23°24'52, Nutation = 0°00'14, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 27°15'37, Lahiri = 26°22'37

ASTRODIENST EPHEMERIS for the year 2180

geocentric

JUNE 2180

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 40 46	11 ¹¹ 17'14	6 ¹¹ 39	24°D12	29 ¹¹ 19	8 ¹¹ 7	20 ¹¹ 22	5 ¹¹ 59	10 ¹¹ 6	12 ¹¹ 31	24 ¹¹ 3	26°D11	25 ¹¹ 38	14 ¹¹ 22	18 ¹¹ 35	T 1
F 2	16 44 42	12°14'46	20°18	24 ¹¹ 15	29°57	8°52	20°34	6° 6	10° 8	12°32	24° 4	26 ¹¹ 11	25°35	14°28	18°39	F 2
S 3	16 48 39	13°12'18	4 ¹¹ 19	24°22	0 ¹¹ 37	9°37	20°46	6°13	10°10	12°32	24° 6	26°11	25°32	14°35	18°43	S 3
S 4	16 52 35	14° 9'48	18°40	24°34	1°17	10°21	20°58	6°21	10°12	12°32	24° 7	26°13	25°29	14°41	18°46	S 4
M 5	16 56 32	15° 7'17	3 ¹¹ 19	24°50	1°59	11° 6	21°10	6°28	10°14	12°33	24° 8	26°14	25°26	14°48	18°50	M 5
T 6	17 0 29	16° 4'45	18°12	25°11	2°42	11°50	21°22	6°36	10°16	12°33	24° 9	26°14	25°23	14°55	18°54	T 6
W 7	17 4 25	17° 2'11	3 ¹¹ 12	25°36	3°25	12°34	21°34	6°43	10°18	12°33	24°11	26°R15	25°19	15° 1	18°57	W 7
T 8	17 8 22	17°59'37	18°11	26° 5	4°10	13°19	21°46	6°51	10°20	12°33	24°12	26°14	25°16	15° 8	19° 1	T 8
F 9	17 12 18	18°57'02	3 ¹¹ 1	26°38	4°55	14° 3	21°58	6°58	10°21	12°34	24°13	26°11	25°13	15°15	19° 5	F 9
S 10	17 16 15	19°54'26	17°34	27°16	5°41	14°47	22°11	7° 6	10°23	12°34	24°15	26° 9	25°10	15°21	19° 8	S 10
S 11	17 20 11	20°51'49	1 ¹¹ 44	27°57	6°28	15°32	22°23	7°13	10°25	12°34	24°16	26° 5	25° 7	15°28	19°12	S 11
M12	17 24 8	21°49'11	15°28	28°43	7°16	16°16	22°35	7°21	10°26	12°34	24°17	26° 2	25° 3	15°35	19°15	M12
T 13	17 28 5	22°46'33	28°45	29°32	8° 4	17° 0	22°48	7°29	10°28	12°34	24°19	25°59	25° 0	15°41	19°19	T 13
W14	17 32 1	23°43'55	11 ¹¹ 37	0 ¹¹ 26	8°54	17°44	23° 0	7°36	10°29	12°34	24°20	25°57	24°57	15°48	19°22	W14
T 15	17 35 58	24°41'16	24° 7	1°23	9°44	18°28	23°13	7°44	10°31	12°34	24°22	25°D57	24°54	15°55	19°26	T 15
F 16	17 39 54	25°38'36	6 ¹¹ 19	2°23	10°34	19°12	23°25	7°52	10°32	12°34	24°23	25°57	24°51	16° 1	19°29	F 16
S 17	17 43 51	26°35'56	18°18	3°27	11°26	19°56	23°38	7°59	10°34	12°34	24°24	25°58	24°48	16° 8	19°33	S 17
S 18	17 47 47	27°33'16	0 ¹¹ 9	4°35	12°17	20°40	23°51	8° 7	10°35	12°34	24°26	26° 0	24°44	16°15	19°36	S 18
M19	17 51 44	28°30'35	11°56	5°46	13°10	21°23	24° 3	8°15	10°36	12°34	24°27	26° 2	24°41	16°21	19°39	M19
T 20	17 55 40	29°27'54	23°44	7° 0	14° 3	22° 7	24°16	8°23	10°37	12°33	24°29	26°R 3	24°38	16°28	19°43	T 20
W21	17 59 37	0 ¹¹ 25'13	5 ¹¹ 36	8°18	14°57	22°51	24°29	8°30	10°39	12°33	24°30	26° 2	24°35	16°34	19°46	W21
T 22	18 3 34	1°22'31	17°35	9°39	15°51	23°34	24°42	8°38	10°40	12°33	24°32	26° 0	24°32	16°41	19°49	T 22
F 23	18 7 30	2°19'49	29°44	11° 3	16°46	24°18	24°55	8°46	10°41	12°33	24°33	25°56	24°29	16°48	19°52	F 23
S 24	18 11 27	3°17'06	12 ¹¹ 4	12°31	17°41	25° 1	25° 7	8°54	10°42	12°32	24°35	25°51	24°25	16°54	19°56	S 24
S 25	18 15 23	4°14'23	24°37	14° 1	18°36	25°44	25°20	9° 1	10°43	12°32	24°36	25°45	24°22	17° 1	19°59	S 25
M26	18 19 20	5°11'40	7 ¹¹ 23	15°35	19°32	26°28	25°33	9° 9	10°44	12°32	24°38	25°38	24°19	17° 8	20° 2	M26
T 27	18 23 16	6° 8'56	20°22	17°12	20°29	27°11	25°46	9°17	10°45	12°31	24°39	25°32	24°16	17°14	20° 5	T 27
W28	18 27 13	7° 6'11	3 ¹¹ 34	18°53	21°26	27°54	25°59	9°25	10°46	12°31	24°41	25°27	24°13	17°21	20° 8	W28
T 29	18 31 9	8° 3'26	17° 0	20°36	22°23	28°37	26°12	9°33	10°46	12°30	24°42	25°23	24° 9	17°28	20°11	T 29
F 30	18 35 6	9 ¹¹ 0'40	0 ¹¹ 40	22 ¹¹ 22	23 ¹¹ 21	29 ¹¹ 20	26 ¹¹ 25	9 ¹¹ 41	10 ¹¹ 47	12 ¹¹ 30	24 ¹¹ 44	25 ¹¹ 21	24 ¹¹ 6	17 ¹¹ 34	20 ¹¹ 14	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	22n 7	4n14	5s11	15n16	3s39	9n37	1s42	1n40	1s41	22n10	0n18	22n38	0s38	3n21	0s42	T 1
F 2	22 14	0s36	4 49	15 11	3 45	9 45	1 49	1 57	1 42	22 8	0 18	22 38	0 38	3 22	0 42	F 2
S 3	22 22	5 32	4 9	15 8	3 50	9 53	1 54	2 15	1 42	22 6	0 18	22 38	0 38	3 23	0 42	S 3
S 4	22 29	10 17	3 13	15 7	3 53	10 2	2 0	2 32	1 42	22 5	0 18	22 38	0 38	3 24	0 42	S 4
M 5	22 35	14 32	2 3	15 8	3 56	10 11	2 5	2 49	1 42	22 3	0 18	22 37	0 38	3 24	0 42	M 5
T 6	22 41	17 56	0 44	15 12	3 57	10 21	2 11	3 6	1 42	22 1	0 18	22 37	0 38	3 25	0 42	T 6
W 7	22 47	20 9	0n38	15 17	3 58	10 31	2 15	3 23	1 42	21 59	0 18	22 37	0 38	3 26	0 42	W 7
T 8	22 52	20 56	1 58	15 24	3 57	10 42	2 20	3 40	1 43	21 57	0 18	22 37	0 38	3 26	0 42	T 8
F 9	22 57	20 14	3 9	15 33	3 56	10 53	2 24	3 57	1 43	21 55	0 18	22 36	0 38	3 27	0 42	F 9
S 10	23 2	18 11	4 6	15 44	3 54	11 4	2 28	4 14	1 43	21 53	0 18	22 36	0 37	3 28	0 42	S 10
S 11	23 6	15 5	4 47	15 56	3 50	11 16	2 32	4 31	1 43	21 51	0 18	22 36	0 37	3 28	0 42	S 11
M12	23 10	11 15	5 9	16 10	3 46	11 28	2 36	4 48	1 43	21 50	0 18	22 35	0 37	3 29	0 42	M12
T 13	23 13	6 59	5 14	16 25	3 42	11 40	2 39	5 5	1 43	21 48	0 18	22 35	0 37	3 29	0 42	T 13
W14	23 16	2 31	5 3	16 42	3 36	11 53	2 43	5 22	1 43	21 46	0 18	22 35	0 37	3 30	0 42	W14
T 15	23 18	1n55	4 37	16 59	3 30	12 6	2 46	5 38	1 43	21 43	0 19	22 34	0 37	3 31	0 42	T 15
F 16	23 21	6 11	4 0	17 18	3 23	12 19	2 48	5 55	1 43	21 41	0 19	22 34	0 37	3 31	0 42	F 16
S 17	23 22	10 8	3 12	17 37	3 16	12 32	2 51	6 11	1 43	21 39	0 19	22 34	0 37	3 32	0 42	S 17
S 18	23 23	13 39	2 17	17 57	3 8	12 45	2 53	6 28	1 43	21 37	0 19	22 33	0 37	3 32	0 42	S 18
M19	23 24	16 37	1 17	18 18	2 59	12 59	2 56	6 44	1 43	21 35	0 19	22 33	0 37	3 33	0 42	M19
T 20	23 25	18 53	0 13	18 40	2 50	13 13	2 58	7 0	1 43	21 33	0 19	22 33	0 37	3 33	0 42	T 20
W21	23 25	20 22	0s52	19 2	2 40	13 27	2 59	7 16	1 43	21 31	0 19	22 32	0 36	3 33	0 42	W21
T 22	23 24	20 56	1 55	19 24	2 30	13 41	3 1	7 32	1 43	21 29	0 19	22 32	0 36	3 34	0 43	T 22
F 23	23 24	20 31	2 53	19 46	2 20	13 55	3 2	7 48	1 43	21 26	0 19	22 31	0 36	3 34	0 43	F 23
S 24	23 22	19 8	3 45	20 8	2 9	14 9	3 4	8 4	1 43	21 24	0 19	22 31	0 36	3 35	0 43	S 24
S 25	23 21	16 49	4 26	20 30	1 58	14 23	3 5	8 20	1 43	21 22	0 19	22 30	0 36	3 35	0 43	S 25
M26	23 19	13 39	4 55	20 52	1 47	14 37	3 6	8 36	1 43	21 19	0 19	22 30	0 36	3 35	0 43	M26
T 27	23 16	9 48	5 9	21 13	1 35	14 51	3 7	8 51	1 43	21 17	0 19	22 30	0 36	3 36	0 43	T 27
W28	23 13	5 25	5 7	21 34	1 23	15 5	3 7	9 7	1 43	21 15	0 19	22 29	0 36	3 36	0 43	W28
T 29	23 10	0 42	4 48	21 54	1 12	15 19	3 8	9 22	1 43	21 12	0 20	22 29	0 36	3 36	0 43	T 29
F 30	23n 6	4s 8	4s13	22n12	1s 0	15n33	3s 8	9n37	1s43	21n10	0n20	22n28	0s36	3n37	0s43	F 30

Julian Day Number = 2517440.5, Delta T = 145.06 sec

Ecliptic obliquity = 23°24'51, Nutation = 0°00'14, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 27°15'41, Lahiri = 26°22'42

ASTRODIENST EPHEMERIS for the year 2180
geocentric

JULY 2180

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	18 39 3	9♂57°54	14♂35	24♂11	24♂19	0♂ 3	26♂39	9♂48	10♂48	12°R29	24♂45	25°D21	24♂ 3	17♂41	20♂17	S 1
S 2	18 42 59	10°55'07	28°43	26° 3	25°18	0°45	26°52	9°56	10°49	12♂29	24°47	25♂22	24° 0	17°48	20°20	S 2
M 3	18 46 56	11°52'19	13♂ 4	27°58	26°17	1°28	27° 5	10° 4	10°49	12°28	24°49	25°23	23°57	17°54	20°23	M 3
T 4	18 50 52	12°49'32	27°35	29°55	27°16	2°11	27°18	10°12	10°50	12°28	24°50	25°R23	23°54	18° 1	20°26	T 4
W 5	18 54 49	13°46'44	12♂13	1♂54	28°16	2°53	27°31	10°20	10°50	12°27	24°52	25°22	23°50	18° 8	20°28	W 5
T 6	18 58 45	14°43'56	26°53	3°56	29°16	3°36	27°44	10°27	10°51	12°26	24°53	25°19	23°47	18°14	20°31	T 6
F 7	19 2 42	15°41'08	11♂27	6° 0	0♂16	4°18	27°58	10°35	10°51	12°26	24°55	25°14	23°44	18°21	20°34	F 7
S 8	19 6 38	16°38'19	25°49	8° 5	1°17	5° 0	28°11	10°43	10°52	12°25	24°56	25° 6	23°41	18°27	20°36	S 8
S 9	19 10 35	17°35'31	9♂53	10°12	2°17	5°42	28°24	10°51	10°52	12°24	24°58	24°58	23°38	18°34	20°39	S 9
M10	19 14 32	18°32'43	23°35	12°20	3°19	6°24	28°37	10°58	10°52	12°23	25° 0	24°50	23°35	18°41	20°42	M10
T 11	19 18 28	19°29'55	6♂53	14°29	4°20	7° 6	28°51	11° 6	10°52	12°23	25° 1	24°42	23°31	18°47	20°44	T 11
W12	19 22 25	20°27'07	19°46	16°38	5°22	7°48	29° 4	11°14	10°53	12°22	25° 3	24°36	23°28	18°54	20°46	W12
T 13	19 26 21	21°24'20	2♂18	18°48	6°24	8°30	29°17	11°22	10°53	12°21	25° 4	24°32	23°25	19° 1	20°49	T 13
F 14	19 30 18	22°21'33	14°31	20°57	7°26	9°12	29°31	11°29	10°53	12°20	25° 6	24°30	23°22	19° 7	20°51	F 14
S 15	19 34 14	23°18'47	26°30	23° 7	8°29	9°53	29°44	11°37	10°R53	12°19	25° 8	24°D30	23°19	19°14	20°54	S 15
S 16	19 38 11	24°16'01	8♂21	25°16	9°32	10°35	29°57	11°45	10°53	12°18	25° 9	24°31	23°15	19°21	20°56	S 16
M17	19 42 7	25°13'16	20° 9	27°24	10°35	11°16	0♂11	11°52	10°53	12°17	25°11	24°R31	23°12	19°27	20°58	M17
T 18	19 46 4	26°10'31	1♂59	29°31	11°38	11°57	0°24	12° 0	10°53	12°16	25°12	24°31	23° 9	19°34	21° 0	T 18
W19	19 50 1	27° 7'47	13°55	1♂37	12°42	12°38	0°37	12° 8	10°53	12°15	25°14	24°29	23° 6	19°41	21° 2	W19
T 20	19 53 57	28° 5'03	26° 2	3°42	13°46	13°19	0°51	12°15	10°52	12°14	25°16	24°25	23° 3	19°47	21° 5	T 20
F 21	19 57 54	29° 2'20	8♂22	5°45	14°50	14° 0	1° 4	12°23	10°52	12°13	25°17	24°18	23° 0	19°54	21° 7	F 21
S 22	20 1 50	29°59'38	20°58	7°47	15°54	14°41	1°18	12°31	10°52	12°12	25°19	24° 9	22°56	20° 0	21° 9	S 22
S 23	20 5 47	0♂56°56	3♂50	9°48	16°59	15°22	1°31	12°38	10°52	12°11	25°20	23°59	22°53	20° 7	21°11	S 23
M24	20 9 43	1°54'15	16°57	11°46	18° 3	16° 2	1°44	12°46	10°51	12°10	25°22	23°48	22°50	20°14	21°12	M24
T 25	20 13 40	2°51'33	0♂18	13°43	19° 8	16°42	1°58	12°53	10°51	12° 9	25°24	23°37	22°47	20°20	21°14	T 25
W26	20 17 36	3°48'53	13°52	15°39	20°13	17°23	2°11	13° 1	10°50	12° 7	25°25	23°27	22°44	20°27	21°16	W26
T 27	20 21 33	4°46'12	27°35	17°33	21°19	18° 3	2°25	13° 8	10°50	12° 6	25°27	23°20	22°41	20°34	21°18	T 27
F 28	20 25 30	5°43'33	11♂26	19°25	22°24	18°43	2°38	13°16	10°49	12° 5	25°28	23°16	22°37	20°40	21°19	F 28
S 29	20 29 26	6°40'53	25°25	21°15	23°30	19°23	2°51	13°23	10°49	12° 4	25°30	23°14	22°34	20°47	21°21	S 29
S 30	20 33 23	7°38'14	9♂29	23° 3	24°35	20° 2	3° 5	13°30	10°48	12° 2	25°31	23°D14	22°31	20°54	21°23	S 30
M31	20 37 19	8♂35°35	23♂38	24♂50	25♂41	20♂42	3♂18	13♂38	10♂47	12♂ 1	25♂33	23°R14	22♂28	21♂ 0	21♂24	M31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
S 1	23n 2	8s51	3s23	22n30	0s48	15n47	3s 8	9n52	1s43	21n 8	0n20	22n28	0s36	3n37	0s43	7s37	0s49	21n51	0n43	19s 5	18s46	17n38	15n58	1s54										
S 2	22 58	13 11	2 19	22 46	0 36	16 1	3 8	10 7	1 43	21 5	0 20	22 27	0 35	3 37	0 43	7 37	0 49	21 51	0 43	19 5	18 45	17 39	15 59	1 54										
M 3	22 53	16 48	1 6	23 0	0 24	16 15	3 8	10 22	1 42	21 3	0 20	22 27	0 35	3 37	0 43	7 37	0 49	21 51	0 43	19 5	18 44	17 40	16 0	1 54										
T 4	22 48	19 24	0n12	23 13	0 12	16 29	3 8	10 37	1 42	21 0	0 20	22 26	0 35	3 37	0 43	7 38	0 49	21 51	0 43	19 5	18 44	17 41	16 0	1 54										
W 5	22 42	20 45	1 30	23 24	0 0	16 42	3 7	10 52	1 42	20 58	0 20	22 26	0 35	3 38	0 43	7 38	0 49	21 50	0 43	19 5	18 43	17 42	16 1	1 54										
T 6	22 36	20 41	2 42	23 32	0n11	16 56	3 7	11 6	1 42	20 55	0 20	22 25	0 35	3 38	0 43	7 38	0 49	21 50	0 43	19 4	18 42	17 43	16 1	1 54										
F 7	22 30	19 14	3 42	23 38	0 22	17 9	3 6	11 21	1 42	20 53	0 20	22 25	0 35	3 38	0 43	7 38	0 49	21 50	0 43	19 3	18 41	17 44	16 2	1 55										
S 8	22 23	16 34	4 28	23 42	0 32	17 22	3 5	11 35	1 42	20 50	0 20	22 24	0 35	3 38	0 43	7 39	0 49	21 50	0 43	19 1	18 40	17 45	16 2	1 55										
S 9	22 16	13 0	4 56	23 43	0 42	17 35	3 4	11 49	1 41	20 47	0 20	22 24	0 35	3 38	0 43	7 39	0 49	21 50	0 43	18 59	18 40	17 46	16 3	1 55										
M10	22 8	8 49	5 7	23 42	0 51	17 48	3 3	12 3	1 41	20 45	0 20	22 23	0 35	3 38	0 43	7 39	0 49	21 49	0 43	18 57	18 39	17 47	16 3	1 55										
T 11	22 0	4 20	5 0	23 37	1 0	18 0	3 2	12 17	1 41	20 42	0 20	22 22	0 35	3 38	0 43	7 40	0 49	21 49	0 44	18 56	18 38	17 48	16 4	1 55										
W12	21 52	0n13	4 38	23 30	1 8	18 12	3 1	12 31	1 41	20 40	0 21	22 22	0 35	3 38	0 43	7 40	0 49	21 49	0 44	18 54	18 37	17 49	16 4	1 56										
T 13	21 43	4 38	4 3	23 21	1 15	18 24	3 0	12 44	1 40	20 37	0 21	22 21	0 35	3 38	0 43	7 40	0 49	21 49	0 44	18 53	18 36	17 50	16 5	1 56										
F 14	21 34	8 45	3 18	23 8	1 22	18 36	2 58	12 58	1 40	20 34	0 21	22 21	0 35	3 38	0 43	7 41	0 49	21 48	0 44	18 53	18 36	17 51	16 5	1 56										
S 15	21 24	12 28	2 25	22 53	1 28	18 47	2 57	13 11	1 40	20 31	0 21	22 20	0 34	3 38	0 43	7 41	0 49	21 48	0 44	18 53	18 35	17 52	16 6	1 56										
S 16	21 14	15 38	1 26	22 35	1 33	18 58	2 55	13 24	1 39	20 29	0 21	22 20	0 34	3 38	0 43	7 42	0 49	21 48	0 44	18 53	18 34	17 53	16 6	1 56										
M17	21 4	18 8	0 23	22 15	1 38	19 9	2 53	13 37	1 39	20 26	0 21	22 19	0 34	3 38	0 43	7 42	0 49	21 48	0 44	18 53	18 33	17 54	16 6	1 56										
T 18	20 54	19 53	0s40	21 53	1 41	19 20	2 51	13 50	1 39	20 23	0 21	22 18	0 34	3 38	0 43	7 42	0 49	21 48	0 44	18 53	18 32	17 55	16 7	1 57										
W19	20 43	20 46	1 42	21 28	1 44	19 30	2 49	14 3	1 38	20 20	0 21	22 18	0 34	3 38	0 43	7 43	0 49	21 47	0 44	18 52	18 32	17 56	16 7	1 57										
T 20	20 31	20 41	2 40	21 2	1 46	19 40	2 47	14 16	1 38	20 18	0 21	22 17	0 34	3 38	0 43	7 43	0 49	21 47	0 44	18 51	18 31	17 57	16 8	1 57										
F 21	20 20	19 38	3 32	20 33	1 48	19 49	2 45	14 28	1 38	20 15	0 21	22 16	0 34	3 38	0 43	7 44	0 49	21 47	0 44	18 50	18 30	17 58	16 8	1 57										
S 22	20 8	17 36	4 14	20 3	1 48	19 58	2 43	14 41	1 37	20 12	0 21	22 16	0 34	3 38	0 43	7 44	0 49	21 47	0 44	18 47	18 29	17 59	16 8	1 57										
S 23	19 56	14 40	4 44	19 31	1 48	20 7	2 41	14 53	1 37	20 9	0 21	22 15	0 34	3 38	0 44	7 45	0 49	21 46	0 44	18 45	18 28	18 0	16 9	1 58										
M24	19 43	10 58	5 0	18 58	1 47	20 15	2 38	15 5	1 36	20 6	0 22	22 15	0 34	3 37	0 44	7 45	0 49	21 46	0 44	18 42	18 28	18 1	16 9	1 58										
T 25	19 30	6 40	5 1	18 23	1 46	20 23	2 36	15 17	1 36	20 3	0 22	22 14	0 34	3 37	0 44	7 46	0 49	21 46	0 44	18 39	18 27	18 2	16 9	1 58										
W26	19 17	1 58	4 44	17 47	1 44	20 30	2 33	15 28	1 35	20 0	0 22	22 13	0 34	3 37	0 44	7 46	0 49	21 46	0 44	18 37	18 26	18 2	16 9	1 58										
T 27	19 3	2s53	4 11	17 10	1 42	20 38	2 31	15 40	1 35	19 57	0 22	22 13	0 34	3 37	0 44	7 46	0 49	21 45	0 45	18 35	18 25	18 3	16 10	1 58										
F 28	18 49	7 38	3 23	16 33	1 39	20 44	2 28	15 51	1 34	19 54	0 22	22 12	0 34	3 36	0 44	7 47	0 49	21 45	0 45	18 34	18 24	18 4	16 10	1 59										
S 29	18 35	12 1	2 22	16 33	1 35	20 50	2 25	16 3	1 34	19 51	0 22	22 11	0 33	3 36	0 44	7 47	0 49	21 45	0 45	18 34	18 24	18 5	16 10	1 59										
S 30	18 20	15 47	1 12	15 15	1 31	20 56	2 22	16 14	1 33	19 48	0 22	22 11	0 33	3 36	0 44	7 48	0 49	21 45	0 45	18 34	18 23	18 6	16 10	1 59										
M31	18n 6	18s38	0n 2	14n35	1n26	21n 1	2s19	16n25	1s33	19n45	0n22	22n10	0s33	3n36	0s44	7s48	0s49	21n45	0n45	18s34	18s22	18n 7	16n11	1s59										

ASTRODIENST EPHEMERIS for the year 2180
geocentric

AUGUST 2180

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 41 16	9♌32°57	7♊51	26♌35	26♊47	21♌21	3♌31	13♌45	10°R46	12°R 0	25♌35	23°R13	22♌25	21♌ 7	21♌26	T 1
W 2	20 45 12	10°30'19	22° 7	28°19	27°54	22° 1	3°45	13°52	10°Y46	11°X58	25°36	23♌11	22°21	21°14	21°27	W 2
T 3	20 49 9	11°27'42	6♌21	0♌1	29° 0	22°40	3°58	14° 0	10°45	11°57	25°38	23° 6	22°18	21°20	21°28	T 3
F 4	20 53 5	12°25'06	20°31	1°41	0♌ 7	23°19	4°11	14° 7	10°44	11°56	25°39	22°58	22°15	21°27	21°30	F 4
S 5	20 57 2	13°22'30	4♌32	3°19	1°14	23°58	4°25	14°14	10°43	11°54	25°41	22°48	22°12	21°34	21°31	S 5
S 6	21 0 59	14°19'55	18°18	4°56	2°21	24°36	4°38	14°21	10°42	11°53	25°42	22°36	22° 9	21°40	21°32	S 6
M 7	21 4 55	15°17'21	1♌48	6°31	3°28	25°15	4°51	14°28	10°41	11°52	25°44	22°24	22° 6	21°47	21°33	M 7
T 8	21 8 52	16°14'48	14°57	8° 4	4°35	25°53	5° 4	14°35	10°40	11°50	25°45	22°13	22° 2	21°53	21°34	T 8
W 9	21 12 48	17°12'16	27°46	9°36	5°42	26°31	5°17	14°42	10°39	11°49	25°47	22° 4	21°59	22° 0	21°35	W 9
T 10	21 16 45	18° 9'45	10°Y15	11° 6	6°50	27° 9	5°31	14°49	10°37	11°47	25°48	21°57	21°56	22° 7	21°36	T 10
F 11	21 20 41	19° 7'16	22°27	12°34	7°58	27°47	5°44	14°56	10°36	11°46	25°50	21°52	21°53	22°13	21°37	F 11
S 12	21 24 38	20° 4'48	4♌26	14° 1	9° 5	28°25	5°57	15° 3	10°35	11°44	25°51	21°50	21°50	22°20	21°38	S 12
S 13	21 28 34	21° 2'21	16°17	15°25	10°13	29° 3	6°10	15°10	10°34	11°43	25°53	21°50	21°46	22°27	21°39	S 13
M14	21 32 31	21°59'55	28° 5	16°49	11°22	29°40	6°23	15°17	10°32	11°41	25°54	21°50	21°43	22°33	21°40	M14
T 15	21 36 28	22°57'31	9♊56	18°10	12°30	0♊17	6°36	15°24	10°31	11°40	25°56	21°49	21°40	22°40	21°40	T 15
W16	21 40 24	23°55'09	21°55	19°29	13°38	0°54	6°49	15°30	10°30	11°38	25°57	21°47	21°37	22°47	21°41	W16
T 17	21 44 21	24°52'48	4♌ 7	20°47	14°47	1°31	7° 2	15°37	10°28	11°37	25°59	21°42	21°34	22°53	21°41	T 17
F 18	21 48 17	25°50'28	16°36	22° 3	15°55	2° 8	7°15	15°44	10°27	11°35	26° 0	21°35	21°31	23° 0	21°42	F 18
S 19	21 52 14	26°48'10	29°24	23°16	17° 4	2°44	7°28	15°50	10°25	11°33	26° 1	21°26	21°27	23° 7	21°42	S 19
S 20	21 56 10	27°45'53	12♌32	24°28	18°13	3°21	7°41	15°57	10°24	11°32	26° 3	21°14	21°24	23°13	21°43	S 20
M21	22 0 7	28°43'37	26° 0	25°38	19°22	3°57	7°54	16° 3	10°22	11°30	26° 4	21° 2	21°21	23°20	21°43	M21
T 22	22 4 3	29°41'23	9♊45	26°45	20°31	4°32	8° 7	16°10	10°20	11°29	26° 6	20°50	21°18	23°26	21°43	T 22
W23	22 8 0	0♊39'10	23°44	27°50	21°41	5° 8	8°20	16°16	10°19	11°27	26° 7	20°40	21°15	23°33	21°44	W23
T 24	22 11 57	1°36'59	7♌51	28°53	22°50	5°44	8°33	16°22	10°17	11°25	26° 8	20°32	21°12	23°40	21°44	T 24
F 25	22 15 53	2°34'48	22° 4	29°53	23°59	6°19	8°46	16°28	10°15	11°24	26°10	20°27	21° 8	23°46	21°44	F 25
S 26	22 19 50	3°32'39	6♌17	0♌50	25° 9	6°54	8°58	16°35	10°14	11°22	26°11	20°25	21° 5	23°53	21°R44	S 26
S 27	22 23 46	4°30'31	20°29	1°45	26°19	7°29	9°11	16°41	10°12	11°21	26°12	20°D24	21° 2	24° 0	21°44	S 27
M28	22 27 43	5°28'24	4♌37	2°37	27°29	8° 3	9°24	16°47	10°10	11°19	26°14	20°R24	20°59	24° 6	21°44	M28
T 29	22 31 39	6°26'18	18°41	3°25	28°38	8°37	9°36	16°53	10° 8	11°17	26°15	20°24	20°56	24°13	21°43	T 29
W30	22 35 36	7°24'14	2♌40	4°11	29°48	9°11	9°49	16°59	10° 6	11°16	26°16	20°22	20°52	24°20	21°43	W30
T 31	22 39 32	8♊22'11	16♌33	4♌52	0♌59	9♊45	10♌ 1	17♌ 5	10°Y 4	11°X14	26♌17	20♌17	20♌49	24♌26	21♌43	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	17n51	20s20	1n17	13n55	1n21	21n 6	2s16	16n36	1s32	19n42	0n22	22n 9	0s33	3n35	0s44	7s49	0s49	21n44	0n45	18s33	18s21	18n 8	16n11	1s59
W 2	17 35	20 44	2 27	13 14	1 16	21 10	2 13	16 46	1 32	19 39	0 22	22 8	0 33	3 35	0 44	7 50	0 49	21 44	0 45	18 33	18 20	18 9	16 11	2 0
T 3	17 20	19 49	3 27	12 33	1 10	21 14	2 10	16 57	1 31	19 36	0 22	22 8	0 33	3 35	0 44	7 50	0 50	21 44	0 45	18 32	18 20	18 10	16 11	2 0
F 4	17 4	17 39	4 15	11 51	1 4	21 18	2 7	17 7	1 31	19 33	0 23	22 7	0 33	3 34	0 44	7 51	0 50	21 44	0 45	18 30	18 19	18 11	16 11	2 0
S 5	16 47	14 29	4 46	11 10	0 57	21 20	2 4	17 17	1 30	19 30	0 23	22 6	0 33	3 34	0 44	7 51	0 50	21 43	0 45	18 27	18 18	18 11	16 11	2 0
S 6	16 31	10 34	5 0	10 28	0 50	21 23	2 1	17 27	1 30	19 27	0 23	22 6	0 33	3 33	0 44	7 52	0 50	21 43	0 45	18 24	18 17	18 12	16 11	2 0
M 7	16 14	6 12	4 57	9 46	0 43	21 24	1 58	17 37	1 29	19 24	0 23	22 5	0 33	3 33	0 44	7 52	0 50	21 43	0 45	18 21	18 16	18 13	16 12	2 1
T 8	15 57	1 39	4 38	9 5	0 35	21 26	1 54	17 47	1 28	19 21	0 23	22 4	0 33	3 33	0 44	7 53	0 50	21 43	0 45	18 18	18 16	18 14	16 12	2 1
W 9	15 40	2n52	4 5	8 23	0 27	21 26	1 51	17 56	1 28	19 18	0 23	22 4	0 33	3 32	0 44	7 53	0 50	21 43	0 45	18 16	18 15	18 15	16 12	2 1
T 10	15 22	7 8	3 21	7 41	0 19	21 27	1 48	18 6	1 27	19 15	0 23	22 3	0 33	3 32	0 44	7 54	0 50	21 42	0 45	18 14	18 14	18 16	16 12	2 1
F 11	15 4	11 2	2 29	7 0	0 11	21 26	1 44	18 15	1 26	19 12	0 23	22 2	0 33	3 31	0 44	7 55	0 50	21 42	0 46	18 13	18 13	18 17	16 12	2 1
S 12	14 46	14 25	1 31	6 19	0 2	21 25	1 41	18 24	1 26	19 8	0 23	22 1	0 33	3 31	0 44	7 55	0 50	21 42	0 46	18 12	18 12	18 17	16 12	2 2
S 13	14 28	17 10	0 29	5 38	0s 7	21 24	1 38	18 33	1 25	19 5	0 23	22 1	0 33	3 30	0 44	7 56	0 50	21 42	0 46	18 12	18 11	18 18	16 12	2 2
M14	14 10	19 11	0s33	4 57	0 16	21 22	1 34	18 41	1 24	19 2	0 24	22 0	0 33	3 30	0 44	7 56	0 50	21 42	0 46	18 12	18 11	18 19	16 12	2 2
T 15	13 51	20 22	1 34	4 17	0 25	21 19	1 31	18 50	1 23	18 59	0 24	21 59	0 32	3 29	0 44	7 57	0 50	21 41	0 46	18 12	18 10	18 20	16 12	2 2
W16	13 32	20 38	2 32	3 38	0 35	21 16	1 27	18 58	1 23	18 56	0 24	21 59	0 32	3 28	0 44	7 58	0 50	21 41	0 46	18 12	18 9	18 21	16 12	2 2
T 17	13 13	19 57	3 24	2 58	0 44	21 13	1 24	19 6	1 22	18 53	0 24	21 58	0 32	3 28	0 44	7 58	0 50	21 41	0 46	18 10	18 8	18 22	16 12	2 3
F 18	12 54	18 18	4 7	2 20	0 54	21 8	1 20	19 14	1 21	18 49	0 24	21 57	0 32	3 27	0 44	7 59	0 50	21 41	0 46	18 9	18 7	18 22	16 12	2 3
S 19	12 34	15 42	4 39	1 42	1 4	21 4	1 16	19 22	1 20	18 46	0 24	21 56	0 32	3 27	0 44	7 59	0 50	21 41	0 46	18 6	18 6	18 23	16 11	2 3
S 20	12 14	12 16	4 57	1 4	1 13	20 58	1 13	19 30	1 19	18 43	0 24	21 56	0 32	3 26	0 44	8 0	0 50	21 40	0 46	18 3	18 6	18 24	16 11	2 3
M21	11 54	8 8	5 0	0 28	1 23	20 52	1 9	19 38	1 19	18 40	0 24	21 55	0 32	3 25	0 44	8 1	0 50	21 40	0 46	18 0	18 5	18 25	16 11	2 3
T 22	11 34	3 30	4 45	0s 8	1 33	20 46	1 6	19 45	1 18	18 37	0 24	21 54	0 32	3 25	0 44	8 1	0 50	21 40	0 46	17 57	18 4	18 26	16 11	2 4
W23	11 14	1s23	4 13	0 43	1 43	20 39	1 2	19 52	1 17	18 33	0 24	21 54	0 32	3 24	0 44	8 2	0 50	21 40	0 46	17 54	18 3	18 26	16 11	2 4
T 24	10 53	6 15	3 25	1 17	1 53	20 31	0 58	19 59	1 16	18 30	0 25	21 53	0 32	3 23	0 44	8 3	0 50	21 40	0 46	17 52	18 2	18 27	16 11	2 4
F 25	10 33	10 49	2 24	1 50	2 3	20 23	0 55	20 6	1 15	18 27	0 25	21 52	0 32	3 23	0 44	8 3	0 50	21 39	0 47	17 51	18 1	18 28	16 11	2 4
S 26	10 12	14 46	1 14	2 22	2 13	20 15	0 51	20 13	1 14	18 24	0 25	21 52	0 32	3 22	0 44	8 4	0 50	21 39	0 47	17 50	18 1	18 29	16 10	2 5
S 27	9 51	17 51	0n 0	2 53	2 23	20 5	0 48	20 20	1 13	18 20	0 25	21 51	0 32	3 21	0 44	8 4	0 50	21 39	0 47	17 50	18 0	18 30	16 10	2 5
M28	9 30	19 49	1 15	3 23	2 33	19 55	0 44	20 26	1 12	18 17	0 25	21 50	0 32	3 20	0 44	8 5	0 50	21 39	0 47	17 50	17 59	18 30	16 10	2 5
T 29	9 8	20 32	2 24	3 51	2 43	19 45	0 40	20 33	1 11	18 14	0 25	21 49	0 32	3 20	0 44	8 6	0 50	21 39	0 47	17 50	17 58	18 31	16 10	2 5
W30	8 47	19 59	3 24	4 18	2 52	19 40	0 37	20 39	1 10	18 11	0 25	21 49	0 32	3 19	0 44	8 6	0 50	21 39	0 47	17 49	17 57	18 32	16 9	2 5
T 31	8n25	18s13	4n12	4s43	3s 2	19n23	0s33	20n45	1s 9	18n 7	0n25	21n48	0s32	3n18	0s44	8s 7	0s50	21n38	0n47	17s48	17s56	18n33	16n 9	2s 6

ASTRODIENST EPHEMERIS for the year 2180
geocentric

SEPTEMBER 2180

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 43 29	9 ^h 20'09	0 ^h 18'18	5 ^h 20'30	2 ^h 02'09	10 ^h 11'19	10 ^h 02'14	17 ^h 02'10	10 ^h 02'10	11 ^h 02'12	26 ^h 02'19	20 ^h 02'10	20 ^h 02'14	24 ^h 02'33	21 ^h 02'43	F 1
S 2	22 47 26	10 ^h 18'08	13 ^h 05'53	6 ^h 04'04	3 ^h 19'19	10 ^h 05'52	10 ^h 02'26	17 ^h 02'16	10 ^h 02'10	11 ^h 02'11	26 ^h 02'20	20 ^h 02'10	20 ^h 02'43	24 ^h 02'40	21 ^h 02'42	S 2
S 3	22 51 22	11 ^h 16'09	27 ^h 02'17	6 ^h 03'33	4 ^h 03'30	11 ^h 02'25	10 ^h 03'38	17 ^h 02'22	9 ^h 05'58	11 ^h 02'09	26 ^h 02'21	19 ^h 02'49	20 ^h 02'40	24 ^h 02'46	21 ^h 02'42	S 3
M 4	22 55 19	12 ^h 02'14	10 ^h 02'11	6 ^h 05'58	5 ^h 04'40	11 ^h 05'58	10 ^h 05'51	17 ^h 02'27	9 ^h 05'56	11 ^h 02'07	26 ^h 02'22	19 ^h 02'38	20 ^h 02'37	24 ^h 02'53	21 ^h 02'41	M 4
T 5	22 59 15	13 ^h 02'15	23 ^h 02'19	7 ^h 01'19	6 ^h 05'51	12 ^h 02'31	11 ^h 03'03	17 ^h 02'33	9 ^h 05'54	11 ^h 02'06	26 ^h 02'24	19 ^h 02'27	20 ^h 02'33	24 ^h 02'59	21 ^h 02'41	T 5
W 6	23 3 12	14 ^h 02'15	5 ^h 02'56	7 ^h 03'34	8 ^h 02'02	13 ^h 03'03	11 ^h 03'15	17 ^h 02'38	9 ^h 05'52	11 ^h 02'04	26 ^h 02'25	19 ^h 02'18	20 ^h 02'30	25 ^h 02'06	21 ^h 02'40	W 6
T 7	23 7 8	15 ^h 02'08	18 ^h 02'18	7 ^h 04'33	9 ^h 02'12	13 ^h 03'35	11 ^h 02'27	17 ^h 02'44	9 ^h 05'50	11 ^h 02'02	26 ^h 02'26	19 ^h 02'11	20 ^h 02'27	25 ^h 02'13	21 ^h 02'39	T 7
F 8	23 11 5	16 ^h 02'38	0 ^h 02'25	7 ^h 04'47	10 ^h 02'23	14 ^h 02'07	11 ^h 03'39	17 ^h 02'49	9 ^h 04'48	11 ^h 02'01	26 ^h 02'27	19 ^h 02'07	20 ^h 02'24	25 ^h 02'19	21 ^h 02'39	F 8
S 9	23 15 1	17 ^h 02'49	12 ^h 02'22	7 ^h 04'55	11 ^h 03'34	14 ^h 03'38	11 ^h 05'51	17 ^h 02'54	9 ^h 04'46	10 ^h 05'59	26 ^h 02'28	19 ^h 02'05	20 ^h 02'21	25 ^h 02'26	21 ^h 02'38	S 9
S 10	23 18 58	18 ^h 03'02	24 ^h 02'12	7 ^h 03'37	12 ^h 02'46	15 ^h 02'10	12 ^h 03'03	17 ^h 02'59	9 ^h 04'44	10 ^h 05'58	26 ^h 02'29	19 ^h 02'05	20 ^h 02'18	25 ^h 02'33	21 ^h 02'37	S 10
M 11	23 22 54	19 ^h 02'18	5 ^h 02'59	7 ^h 02'23	13 ^h 02'57	15 ^h 02'40	12 ^h 02'15	18 ^h 02'05	9 ^h 04'41	10 ^h 05'56	26 ^h 02'30	19 ^h 02'06	20 ^h 02'14	25 ^h 02'39	21 ^h 02'36	M 11
T 12	23 26 51	19 ^h 05'35	17 ^h 02'50	7 ^h 02'01	15 ^h 02'08	16 ^h 02'11	12 ^h 02'27	18 ^h 02'10	9 ^h 03'39	10 ^h 05'54	26 ^h 02'31	19 ^h 02'07	20 ^h 02'11	25 ^h 02'46	21 ^h 02'35	T 12
W 13	23 30 48	20 ^h 05'54	29 ^h 02'49	6 ^h 03'34	16 ^h 02'20	16 ^h 02'41	12 ^h 02'39	18 ^h 02'15	9 ^h 03'37	10 ^h 05'53	26 ^h 02'32	19 ^h 02'06	20 ^h 02'08	25 ^h 02'53	21 ^h 02'34	W 13
T 14	23 34 44	21 ^h 05'16	12 ^h 02'02	5 ^h 05'59	17 ^h 02'31	17 ^h 02'11	12 ^h 02'51	18 ^h 02'19	9 ^h 03'35	10 ^h 05'51	26 ^h 02'33	19 ^h 02'04	20 ^h 02'05	25 ^h 02'59	21 ^h 02'33	T 14
F 15	23 38 41	22 ^h 05'43	24 ^h 02'33	5 ^h 05'19	18 ^h 02'43	17 ^h 02'41	13 ^h 02'02	18 ^h 02'24	9 ^h 03'32	10 ^h 05'49	26 ^h 02'34	19 ^h 02'00	20 ^h 02'02	26 ^h 02'06	21 ^h 02'32	F 15
S 16	23 42 37	23 ^h 05'05	7 ^h 02'26	4 ^h 03'32	19 ^h 02'54	18 ^h 02'10	13 ^h 02'14	18 ^h 02'29	9 ^h 03'30	10 ^h 05'48	26 ^h 02'35	18 ^h 02'53	19 ^h 02'58	26 ^h 02'13	21 ^h 02'30	S 16
S 17	23 46 34	24 ^h 05'13	20 ^h 02'43	3 ^h 04'41	21 ^h 02'06	18 ^h 02'39	13 ^h 02'26	18 ^h 02'34	9 ^h 02'28	10 ^h 05'46	26 ^h 02'36	18 ^h 02'45	19 ^h 02'55	26 ^h 02'19	21 ^h 02'29	S 17
M 18	23 50 30	25 ^h 05'02	4 ^h 02'25	2 ^h 04'44	22 ^h 02'18	19 ^h 02'08	13 ^h 02'37	18 ^h 02'38	9 ^h 02'25	10 ^h 05'45	26 ^h 02'37	18 ^h 02'37	19 ^h 02'52	26 ^h 02'26	21 ^h 02'28	M 18
T 19	23 54 27	26 ^h 04'33	18 ^h 02'28	1 ^h 04'44	23 ^h 02'30	19 ^h 02'36	13 ^h 02'48	18 ^h 02'43	9 ^h 02'23	10 ^h 05'43	26 ^h 02'38	18 ^h 02'28	19 ^h 02'49	26 ^h 02'32	21 ^h 02'26	T 19
W 20	23 58 23	27 ^h 04'06	2 ^h 02'49	0 ^h 04'42	24 ^h 02'42	20 ^h 02'04	14 ^h 02'00	18 ^h 02'47	9 ^h 02'21	10 ^h 05'42	26 ^h 02'39	18 ^h 02'21	19 ^h 02'46	26 ^h 02'39	21 ^h 02'25	W 20
T 21	0 2 20	28 ^h 04'52	17 ^h 02'22	29 ^h 02'38	25 ^h 02'54	20 ^h 02'32	14 ^h 02'11	18 ^h 02'51	9 ^h 02'18	10 ^h 05'40	26 ^h 02'40	18 ^h 02'15	19 ^h 02'43	26 ^h 02'46	21 ^h 02'23	T 21
F 22	0 6 17	29 ^h 04'19	2 ^h 02'00	28 ^h 02'35	27 ^h 02'06	20 ^h 02'59	14 ^h 02'22	18 ^h 02'55	9 ^h 02'16	10 ^h 05'38	26 ^h 02'41	18 ^h 02'12	19 ^h 02'39	26 ^h 02'52	21 ^h 02'22	F 22
S 23	0 10 13	0 ^h 02'42'58	16 ^h 02'36	27 ^h 02'34	28 ^h 02'19	21 ^h 02'26	14 ^h 02'33	18 ^h 02'59	9 ^h 02'14	10 ^h 05'37	26 ^h 02'42	18 ^h 02'11	19 ^h 02'36	26 ^h 02'59	21 ^h 02'20	S 23
S 24	0 14 10	1 ^h 04'13'38	1 ^h 02'06	26 ^h 02'36	29 ^h 02'31	21 ^h 02'52	14 ^h 02'44	19 ^h 02'03	9 ^h 02'11	10 ^h 05'35	26 ^h 02'42	18 ^h 02'11	19 ^h 02'33	27 ^h 02'06	21 ^h 02'19	S 24
M 25	0 18 6	2 ^h 04'02'15	15 ^h 02'25	25 ^h 02'43	0 ^h 02'43	22 ^h 02'18	14 ^h 02'55	19 ^h 02'07	9 ^h 02'09	10 ^h 05'34	26 ^h 02'43	18 ^h 02'13	19 ^h 02'30	27 ^h 02'12	21 ^h 02'17	M 25
T 26	0 22 3	3 ^h 03'05	29 ^h 02'32	24 ^h 02'57	1 ^h 02'56	22 ^h 02'44	15 ^h 02'06	19 ^h 02'11	9 ^h 02'06	10 ^h 05'32	26 ^h 02'44	18 ^h 02'13	19 ^h 02'27	27 ^h 02'19	21 ^h 02'15	T 26
W 27	0 25 59	4 ^h 03'50	13 ^h 02'26	24 ^h 02'18	3 ^h 02'08	23 ^h 02'09	15 ^h 02'17	19 ^h 02'15	9 ^h 02'04	10 ^h 05'31	26 ^h 02'45	18 ^h 02'13	19 ^h 02'23	27 ^h 02'26	21 ^h 02'13	W 27
T 28	0 29 56	5 ^h 03'38	27 ^h 02'06	23 ^h 02'48	4 ^h 02'21	23 ^h 02'34	15 ^h 02'27	19 ^h 02'19	9 ^h 02'02	10 ^h 05'29	26 ^h 02'45	18 ^h 02'11	19 ^h 02'20	27 ^h 02'32	21 ^h 02'12	T 28
F 29	0 33 52	6 ^h 03'52	10 ^h 02'32	23 ^h 02'27	5 ^h 02'34	23 ^h 02'58	15 ^h 02'38	19 ^h 02'22	8 ^h 02'59	10 ^h 05'28	26 ^h 02'46	18 ^h 02'07	19 ^h 02'17	27 ^h 02'39	21 ^h 02'10	F 29
S 30	0 37 49	7 ^h 03'47	23 ^h 02'46	23 ^h 02'16	6 ^h 02'46	24 ^h 02'22	15 ^h 02'48	19 ^h 02'26	8 ^h 02'57	10 ^h 05'27	26 ^h 02'47	18 ^h 02'02	19 ^h 02'14	27 ^h 02'46	21 ^h 02'08	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	8n 4	15s26	4n45	5s 6	3s11	19n11	0s30	20n51	1s 8	18n 4	0n26	21n47	0s32	3n17	0s44	8s 8	0s50	21n38	0n47	17s46	17s56	18n33	16n 9	2s 6			
S 2	7 42	11 50	5 1	5 28	3 20	18 58	0 26	20 56	1 7	18 1	0 26	21 47	0 32	3 17	0 45	8 8	0 50	21 38	0 47	17 43	17 55	18 34	16 9	2 6			
S 3	7 20	7 42	5 0	5 47	3 28	18 45	0 23	21 2	1 6	17 58	0 26	21 46	0 32	3 16	0 45	8 9	0 50	21 38	0 47	17 40	17 54	18 35	16 8	2 6			
M 4	6 58	3 17	4 43	6 4	3 36	18 31	0 19	21 8	1 5	17 55	0 26	21 45	0 32	3 15	0 45	8 10	0 50	21 38	0 47	17 37	17 53	18 36	16 8	2 6			
T 5	6 36	1n13	4 12	6 19	3 44	18 17	0 16	21 13	1 4	17 51	0 26	21 45	0 31	3 14	0 45	8 10	0 50	21 38	0 47	17 34	17 52	18 36	16 8	2 7			
W 6	6 13	5 33	3 29	6 32	3 50	18 3	0 12	21 18	1 3	17 48	0 26	21 44	0 31	3 13	0 45	8 11	0 50	21 38	0 47	17 32	17 51	18 37	16 7	2 7			
T 7	5 51	9 35	2 37	6 41	3 57	17 47	0 9	21 23	1 2	17 45	0 26	21 43	0 31	3 12	0 45	8 11	0 50	21 37	0 48	17 30	17 51	18 38	16 7	2 7			
F 8	5 28	13 8	1 38	6 48	4 2	17 32	0 6	21 28	1 1	17 42	0 26	21 43	0 31	3 12	0 45	8 12	0 50	21 37	0 48	17 29	17 50	18 39	16 6	2 7			
S 9	5 6	16 6	0 36	6 51	4 7	17 16	0 2	21 33	0 59	17 38	0 27	21 42	0 31	3 11	0 45	8 13	0 50	21 37	0 48	17 29	17 49	18 39	16 6	2 8			
S 10	4 43	18 22	0s27	6 51	4 10	16 59	0n 1	21 37	0 58	17 35	0 27	21 41	0 31	3 10	0 45	8 13	0 50	21 37	0 48	17 29	17 48	18 40	16 6	2 8			
M11	4 20	19 49	1 29	6 48	4 13	16 42	0 4	21 42	0 57	17 32	0 27	21 41	0 31	3 9	0 45	8 14	0 50	21 37	0 48	17 29	17 47	18 41	16 5	2 8			
T 12	3 58	20 24	2 28	6 41	4 14	16 24	0 8	21 46	0 56	17 29	0 27	21 40	0 31	3 8	0 45	8 15	0 50	21 37	0 48	17 29	17 46	18 42	16 5	2 8			
W13	3 35	20 4	3 21	6 29	4 14	16 6	0 11	21 51	0 55	17 26	0 27	21 40	0 31	3 7	0 45	8 15	0 50	21 37	0 48	17 29	17 45	18 42	16 4	2 8			
T 14	3 12	18 48	4 5	6 14	4 12	15 47	0 14	21 55	0 53	17 22	0 27	21 39	0 31	3 6	0 45	8 16	0 50	21 36	0 48	17 28	17 45	18 43	16 4	2 9			
F 15	2 49	16 36	4 39	5 55	4 9	15 28	0 17	21 59	0 52	17 19	0 27	21 38	0 31	3 5	0 45	8 16	0 50	21 36	0 48	17 27	17 44	18 44	16 3	2 9			
S 16	2 26	13 33	5 0	5 32	4 4	15 9	0 20	22 3	0 51	17 16	0 27	21 38	0 31	3 5	0 45	8 17	0 50	21 36	0 48	17 25	17 43	18 44	16 3	2 9			
S 17	2 2	9 43	5 6	5 5	3 56	14 49	0 23	22 7	0 49	17 13	0 28	21 37	0 31	3 4	0 45	8 18	0 50	21 36	0 48	17 23	17 42	18 45	16 2	2 9			
M18	1 39	5 18	4 55	4 34	3 47	14 29	0 26	22 10	0 48	17 10	0 28	21 37	0 31	3 3	0 45	8 18	0 50	21 36	0 48	17 21	17 41	18 46	16 2	2 9			
T 19	1 16	0 28	4 26	4 0	3 37	14 8	0 29	22 14	0 47	17 7	0 28	21 36	0 31	3 2	0 45	8 19	0 50	21 36	0 48	17 18	17 40	18 46	16 1	2 10			
W20	0 53	4s29	3 40	3 24	3 24	13 47	0 32	22 18	0 45	17 3	0 28	21 35	0 31	3 1	0 45	8 19	0 50	21 36	0 49	17 16	17 40	18 47	16 1	2 10			
T 21	0 30	9 15	2 38	2 45	3 9	13 25	0 35	22 21	0 44	17 0	0 28	21 35	0 31	3 0	0 45	8 20	0 50	21 36	0 49	17 15	17 39	18 48	16 0	2 10			
F 22	0 6	13 30	1 26	2 5	2 53	13 3	0 38	22 24	0 42	16 57	0 28	21 34	0 31	2 59	0 45	8 21	0 50	21 36	0 49	17 14	17 38	18 48	15 59	2 10			
S 23	0s17	16 55	0 9	1 24	2 35	12 41	0 41	22 28	0 41	16 54	0 28	21 34	0 31	2 58	0 45	8 21	0 50	21 36	0 49	17 14	17 37	18 49	15 59	2 10			
S 24	0 40	19 13	1n 9	0 44	2 17	12 18	0 43	22 31	0 39	16 51	0 29	21 33	0 31	2 57	0 45	8 22	0 50	21 36	0 49	17 14	17 36	18 50	15 58	2 11			
M25	1 4	20 16	2 22	0 5	1 57	11 55	0 46	22 34	0 38	16 48	0 29	21 33	0 31	2 56	0 45	8 22	0 50	21 35	0 49	17 14	17 35	18 50	15 57	2 11			
T 26	1 27	20 0	3 25	0n31	1 37	11 32	0 49	22 37	0 36	16 45	0 29	21 32	0 31	2 55	0 45	8 23	0 50	21 35	0 49	17 14	17 34	18 51	15 57	2 11			
W27	1 50	18 31	4 15	1 5	1 17	11 8	0 51	22 40	0 35	16 42	0 29	21 32	0 31	2 54	0 45	8 23	0 50	21 35	0 49	17 14	17 34	18 52	15 56	2 11			
T 28	2 14	15 59	4 49	1 36	0 57	10 44	0 54	22 43	0 33	16 39	0 29	21 31	0 31	2 53	0 45	8 24	0 50	21 35	0 49	17 14	17 33	18 52	15 56	2 11			
F 29	2 37	12 39	5 7	2 2	0 37	10 20	0 56	22 45	0 31	16 36	0 29	21 31	0 30	2 52	0 45	8 25	0 50	21 35	0 49	17 13	17 32	18 53	15 55	2 12			
S 30	3s 0	8s44	5n 8	2n24	0s18	9n55	0n58	22n48	0s30	16n33	0n29	21n30	0s30	2n51	0s45	8s25	0s50	21n35	0n49	17s11	17s31	18n54	15n54	2s12			

ASTRODIENST EPHEMERIS for the year 2180
geocentric

OCTOBER 2180

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 41 46	8♂33'09	6♂46	23°D15	7♂59	24♂45	15♂59	19♂29	8°R54	10°R25	26♂47	17°R55	19♂11	27♂52	21°R 6	S 1
M 2	0 45 42	9°32'04	19°33	23♂24	9°12	25° 8	16° 9	19°32	8°Y52	10♂24	26°48	17♂48	19° 8	27°59	21♂ 4	M 2
T 3	0 49 39	10°31'00	2°Y 7	23°44	10°25	25°31	16°19	19°35	8°50	10°22	26°49	17°42	19° 4	28° 6	21° 2	T 3
W 4	0 53 35	11°29'58	14°29	24°13	11°38	25°53	16°29	19°38	8°47	10°21	26°49	17°37	19° 1	28°12	20°59	W 4
T 5	0 57 32	12°28'58	26°40	24°52	12°51	26°15	16°39	19°41	8°45	10°20	26°50	17°33	18°58	28°19	20°57	T 5
F 6	1 1 28	13°28'00	8♂40	25°39	14° 4	26°36	16°49	19°44	8°42	10°18	26°50	17°31	18°55	28°25	20°55	F 6
S 7	1 5 25	14°27'04	20°33	26°34	15°18	26°56	16°59	19°47	8°40	10°17	26°51	17°D30	18°52	28°32	20°53	S 7
S 8	1 9 21	15°26'11	2♂21	27°37	16°31	27°17	17° 9	19°50	8°38	10°16	26°51	17°31	18°49	28°39	20°50	S 8
M 9	1 13 18	16°25'20	14° 8	28°46	17°44	27°36	17°18	19°52	8°35	10°15	26°52	17°33	18°45	28°45	20°48	M 9
T 10	1 17 14	17°24'31	25°58	0♂ 1	18°58	27°55	17°28	19°55	8°33	10°13	26°52	17°35	18°42	28°52	20°46	T 10
W11	1 21 11	18°23'44	7♂56	1°22	20°11	28°14	17°37	19°57	8°30	10°12	26°53	17°36	18°39	28°59	20°43	W11
T 12	1 25 8	19°23'00	20° 7	2°46	21°25	28°32	17°46	19°59	8°28	10°11	26°53	17°R37	18°36	29° 5	20°41	T 12
F 13	1 29 4	20°22'18	2♂35	4°15	22°39	28°49	17°55	20° 2	8°26	10°10	26°53	17°36	18°33	29°12	20°38	F 13
S 14	1 33 1	21°21'38	15°26	5°47	23°52	29° 6	18° 4	20° 4	8°23	10° 9	26°54	17°34	18°29	29°19	20°36	S 14
S 15	1 36 57	22°21'00	28°42	7°21	25° 6	29°22	18°13	20° 6	8°21	10° 7	26°54	17°31	18°26	29°25	20°33	S 15
M16	1 40 54	23°20'25	12♂25	8°58	26°20	29°37	18°22	20° 7	8°19	10° 6	26°54	17°28	18°23	29°32	20°31	M16
T 17	1 44 50	24°19'52	26°34	10°36	27°34	29°52	18°31	20° 9	8°16	10° 5	26°55	17°24	18°20	29°39	20°28	T 17
W18	1 48 47	25°19'21	11♂ 6	12°16	28°48	0♂ 6	18°39	20°11	8°14	10° 4	26°55	17°21	18°17	29°45	20°25	W18
T 19	1 52 43	26°18'52	25°56	13°56	0♂ 1	0°20	18°48	20°12	8°12	10° 3	26°55	17°19	18°14	29°52	20°23	T 19
F 20	1 56 40	27°18'26	10♂55	15°38	1°15	0°33	18°56	20°14	8°10	10° 2	26°55	17°D18	18°10	29°59	20°20	F 20
S 21	2 0 37	28°18'01	25°55	17°20	2°30	0°45	19° 4	20°15	8° 7	10° 1	26°55	17°18	18° 7	0♂ 5	20°17	S 21
S 22	2 4 33	29°17'38	10♂48	19° 2	3°44	0°56	19°12	20°16	8° 5	10° 0	26°56	17°19	18° 4	0°12	20°14	S 22
M23	2 8 30	0♂17'17	25°27	20°44	4°58	1° 7	19°20	20°17	8° 3	9°59	26°56	17°21	18° 1	0°18	20°11	M23
T 24	2 12 26	1°16'58	9♂48	22°27	6°12	1°17	19°28	20°18	8° 1	9°58	26°56	17°22	17°58	0°25	20° 9	T 24
W25	2 16 23	2°16'40	23°48	24° 9	7°26	1°27	19°36	20°19	7°59	9°58	26°56	17°22	17°55	0°32	20° 6	W25
T 26	2 20 19	3°16'24	7♂27	25°51	8°40	1°35	19°43	20°20	7°56	9°57	26°56	17°R23	17°51	0°38	20° 3	T 26
F 27	2 24 16	4°16'09	20°46	27°33	9°55	1°43	19°51	20°20	7°54	9°56	26°R56	17°22	17°48	0°45	20° 0	F 27
S 28	2 28 12	5°15'57	3♂46	29°15	11° 9	1°50	19°58	20°21	7°52	9°55	26°56	17°21	17°45	0°52	19°57	S 28
S 29	2 32 9	6°15'46	16°29	0♂56	12°23	1°57	20° 5	20°21	7°50	9°54	26°56	17°19	17°42	0°58	19°54	S 29
M30	2 36 6	7°15'36	28°58	2°37	13°38	2° 2	20°12	20°21	7°48	9°54	26°56	17°18	17°39	1° 5	19°51	M30
T 31	2 40 2	8♂15'28	11°Y15	4♂17	14♂52	2♂ 7	20♂19	20♂22	7°Y46	9°Y53	26♂56	17♂17	17♂35	1♂12	19♂48	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
S 1	3s23	4s28	4n54	2n41	0s 0	9n30	1n 1	22n51	0s28	16n30	0n30	21n30	0s30	2n51	0s45	8s26	0s50	21n35	0n49	17s 9	17s30	18n54	15n53	2s12					
M 2	3 46	0 5	4 24	2 52	0n17	9 5	1 3	22 53	0 26	16 27	0 30	21 30	0 30	2 50	0 45	8 26	0 50	21 35	0 50	17 7	17 29	18 55	15 53	2 12					
T 3	4 10	4n15	3 42	2 59	0 33	8 39	1 5	22 56	0 25	16 24	0 30	21 29	0 30	2 49	0 45	8 27	0 50	21 35	0 50	17 5	17 28	18 56	15 52	2 12					
W 4	4 33	8 20	2 51	3 1	0 47	8 14	1 7	22 58	0 23	16 21	0 30	21 29	0 30	2 48	0 45	8 27	0 50	21 35	0 50	17 4	17 27	18 56	15 51	2 12					
T 5	4 56	12 0	1 52	2 58	1 0	7 47	1 9	23 1	0 21	16 19	0 30	21 28	0 30	2 47	0 45	8 28	0 50	21 35	0 50	17 3	17 27	18 57	15 51	2 13					
F 6	5 19	15 8	0 48	2 50	1 12	7 21	1 11	23 3	0 19	16 16	0 30	21 28	0 30	2 46	0 45	8 28	0 50	21 35	0 50	17 2	17 26	18 57	15 50	2 13					
S 7	5 41	17 36	0s17	2 37	1 22	6 55	1 13	23 5	0 17	16 13	0 31	21 28	0 30	2 45	0 45	8 29	0 50	21 35	0 50	17 2	17 25	18 58	15 49	2 13					
S 8	6 4	19 18	1 21	2 20	1 31	6 28	1 15	23 8	0 15	16 10	0 31	21 27	0 30	2 44	0 45	8 29	0 50	21 35	0 50	17 3	17 24	18 59	15 48	2 13					
M 9	6 27	20 8	2 21	2 0	1 39	6 1	1 17	23 10	0 14	16 7	0 31	21 27	0 30	2 43	0 45	8 30	0 50	21 35	0 50	17 3	17 23	18 59	15 48	2 13					
T 10	6 50	20 6	3 16	1 36	1 45	5 34	1 18	23 12	0 12	16 5	0 31	21 27	0 30	2 42	0 45	8 30	0 50	21 35	0 50	17 4	17 22	19 0	15 47	2 13					
W11	7 12	19 8	4 3	1 8	1 50	5 6	1 20	23 14	0 10	16 2	0 31	21 26	0 30	2 41	0 45	8 30	0 50	21 35	0 50	17 4	17 21	19 0	15 46	2 14					
T 12	7 35	17 18	4 39	0 38	1 54	4 39	1 21	23 17	0 8	15 59	0 31	21 26	0 30	2 40	0 45	8 31	0 50	21 35	0 50	17 4	17 20	19 1	15 45	2 14					
F 13	7 57	14 37	5 4	0 6	1 56	4 11	1 23	23 19	0 6	15 57	0 32	21 26	0 30	2 39	0 45	8 31	0 50	21 35	0 50	17 4	17 20	19 2	15 44	2 14					
S 14	8 19	11 11	5 15	0s29	1 58	3 43	1 24	23 21	0 4	15 54	0 32	21 25	0 30	2 38	0 45	8 32	0 50	21 35	0 51	17 3	17 19	19 2	15 44	2 14					
S 15	8 41	7 5	5 9	1 6	1 59	3 15	1 25	23 23	0 1	15 51	0 32	21 25	0 30	2 38	0 45	8 32	0 50	21 35	0 51	17 3	17 18	19 3	15 43	2 14					
M16	9 3	2 30	4 46	1 44	1 59	2 47	1 27	23 25	0n 1	15 49	0 32	21 25	0 30	2 37	0 45	8 33	0 50	21 35	0 51	17 2	17 17	19 3	15 42	2 14					
T 17	9 25	2s23	4 5	2 23	1 58	2 19	1 28	23 28	0 3	15 46	0 32	21 25	0 30	2 36	0 45	8 33	0 50	21 35	0 51	17 1	17 16	19 4	15 41	2 15					
W18	9 47	7 15	3 7	3 3	1 56	1 50	1 29	23 30	0 5	15 44	0 32	21 25	0 30	2 35	0 45	8 33	0 50	21 35	0 51	17 0	17 15	19 4	15 40	2 15					
T 19	10 9	11 48	1 55	3 45	1 54	1 22	1 30	23 32	0 7	15 41	0 33	21 24	0 30	2 34	0 44	8 34	0 50	21 35	0 51	16 59	17 14	19 5	15 39	2 15					
F 20	10 30	15 39	0 35	4 26	1 51	0 53	1 31	23 34	0 9	15 39	0 33	21 24	0 30	2 33	0 44	8 34	0 50	21 35	0 51	16 59	17 13	19 6	15 38	2 15					
S 21	10 52	18 27	0n47	5 8	1 48	0 25	1 32	23 37	0 12	15 37	0 33	21 24	0 30	2 32	0 44	8 34	0 50	21 35	0 51	16 59	17 13	19 6	15 38	2 15					
S 22	11 13	19 57	2 6	5 51	1 44	0s 4	1 33	23 39	0 14	15 34	0 33	21 24	0 30	2 31	0 44	8 35	0 50	21 35	0 51	16 59	17 12	19 7	15 37	2 15					
M23	11 34	20 4	3 16	6 33	1 39	0 33	1 33	23 41	0 16	15 32	0 33	21 24	0 29	2 31	0 44	8 35	0 50	21 35	0 51	16 59	17 11	19 7	15 36	2 15					
T 24	11 54	18 52	4 12	7 16	1 35	1 1	1 34	23 43	0 19	15 30	0 34	21 24	0 29	2 30	0 44	8 35	0 50	21 35	0 51	17 0	17 10	19 8	15 35	2 16					
W25	12 15	16 33	4 51	7 58	1 30	1 30	1 34	23 46	0 21	15 28	0 34	21 24	0 29	2 29	0 44	8 36	0 50	21 36	0 52	17 0	17 9	19 8	15 34	2 16					
T 26	12 36	13 21	5 12	8 40	1 24	1 59	1 35	23 48	0 24	15 25	0 34	21 24	0 29	2 28	0 44	8 36	0 50	21 36	0 52	17 0	17 8	19 9	15 33	2 16					
F 27	12 56	9 33	5 16	9 22	1 19	2 28	1 35	23 50	0 26	15 23	0 34	21 24	0 29	2 27	0 44	8 36	0 50	21 36	0 52	17 0	17 7	19 9	15 32	2 16					
S 28	13 16	5 23	5 4	10 3	1 13	2 56	1 36	23 53	0 29	15 21	0 34	21 24	0 29	2 26	0 44	8 37	0 50	21 36	0 52	17 0	17 6	19 10	15 31	2 16					
S 29	13 36	1 4	4 37	10 44	1 7	3 25	1 36	23 55	0 31	15 19	0 34	21 24	0 29	2 26	0 44	8 37	0 50	21 36	0 52	16 59	17 5	19 10	15 30	2 16					
M30	13 55	3n13	3 57	11 25	1 1	3 54	1 36	23 58	0 34	15 17	0 35	21 24	0 29	2 25	0 44	8 37	0 50	21 36	0 52	16 59	17 5	19 11	15 30	2 16					
T 31	14s15	7n19	3n 7	12s 5	0n55	4s22	1n36	24n 0	0n37	15n15	0n35	21n24	0s29	2n24	0s44	8s37	0s50	21n36	0n52	16s58	17s 4	19n11	15n29	2s17					

Julian Day Number = 2517562.5, Delta T = 145.34 sec
Ecliptic obliquity = 23°24'51, Nutation = 0°00'13, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°15'58, Lahiri = 26°22'58

ASTRODIENST EPHEMERIS for the year 2180
geocentric

DECEMBER 2180

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	4 42 15	9♌26°32	26♋1	23♊7	23♋36	27°R37	22♌28	19°R33	7°R 3	9♏48	26°R41	17°R17	15♍57	4♈38	18°R15	F 1
S 2	4 46 12	10°27'16	7♋49	24°37	24°51	27♋17	22°30	19♌30	7°Y 2	9°48	26♌41	17♋16	15°54	4°44	18♋12	S 2
S 3	4 50 8	11°28'02	19°39	26° 7	26° 6	26°55	22°31	19°26	7° 1	9°49	26°40	17°13	15°51	4°51	18° 9	S 3
M 4	4 54 5	12°28'49	1♌32	27°37	27°22	26°34	22°32	19°23	7° 1	9°49	26°39	17° 9	15°47	4°58	18° 7	M 4
T 5	4 58 2	13°29'37	13°31	29° 6	28°37	26°12	22°32	19°19	7° 0	9°50	26°38	17° 5	15°44	5° 4	18° 4	T 5
W 6	5 1 58	14°30'26	25°38	0♌35	29°52	25°50	22°33	19°16	7° 0	9°50	26°37	17° 0	15°41	5°11	18° 1	W 6
T 7	5 5 55	15°31'17	7♌54	2° 3	1♌8	25°27	22°33	19°12	6°59	9°51	26°36	16°55	15°38	5°18	17°58	T 7
F 8	5 9 51	16°32'09	20°23	3°30	2°23	25° 4	22°R33	19° 9	6°59	9°51	26°35	16°52	15°35	5°24	17°56	F 8
S 9	5 13 48	17°33'02	3♏7	4°57	3°38	24°41	22°33	19° 5	6°58	9°52	26°34	16°49	15°32	5°31	17°53	S 9
S 10	5 17 44	18°33'57	16°10	6°23	4°54	24°18	22°33	19° 1	6°58	9°53	26°33	16°D48	15°28	5°38	17°51	S 10
M 11	5 21 41	19°34'52	29°33	7°47	6° 9	23°54	22°32	18°57	6°58	9°53	26°32	16°49	15°25	5°44	17°48	M 11
T 12	5 25 37	20°35'49	13♌20	9°11	7°24	23°31	22°32	18°53	6°57	9°54	26°31	16°50	15°22	5°51	17°46	T 12
W 13	5 29 34	21°36'47	27°32	10°33	8°40	23° 8	22°31	18°49	6°57	9°55	26°30	16°51	15°19	5°58	17°43	W 13
T 14	5 33 31	22°37'47	12♋7	11°53	9°55	22°44	22°30	18°45	6°57	9°56	26°29	16°R52	15°16	6° 4	17°41	T 14
F 15	5 37 27	23°38'47	27° 1	13°12	11°11	22°21	22°29	18°41	6°57	9°56	26°28	16°52	15°12	6°11	17°39	F 15
S 16	5 41 24	24°39'49	12♌9	14°28	12°26	21°58	22°27	18°36	6°D57	9°57	26°27	16°50	15° 9	6°18	17°36	S 16
S 17	5 45 20	25°40'51	27°21	15°42	13°41	21°35	22°25	18°32	6°57	9°58	26°26	16°46	15° 6	6°24	17°34	S 17
M 18	5 49 17	26°41'55	12♌27	16°52	14°57	21°13	22°24	18°28	6°57	9°59	26°25	16°40	15° 3	6°31	17°32	M 18
T 19	5 53 13	27°42'58	27°18	17°59	16°12	20°50	22°22	18°23	6°57	10° 0	26°24	16°34	15° 0	6°38	17°30	T 19
W 20	5 57 10	28°44'02	11♌45	19° 2	17°28	20°28	22°19	18°19	6°58	10° 1	26°23	16°27	14°57	6°44	17°27	W 20
T 21	6 1 7	29°45'07	25°45	19°59	18°43	20° 7	22°17	18°14	6°58	10° 2	26°22	16°21	14°53	6°51	17°25	T 21
F 22	6 5 3	0♌46°12	9♏15	20°52	19°59	19°46	22°14	18°10	6°58	10° 3	26°21	16°17	14°50	6°58	17°23	F 22
S 23	6 9 0	1°47'17	22°17	21°38	21°14	19°25	22°11	18° 5	6°59	10° 4	26°19	16°15	14°47	7° 4	17°21	S 23
S 24	6 12 56	2°48'22	4°Y54	22°17	22°30	19° 5	22° 8	18° 0	6°59	10° 5	26°18	16°D14	14°44	7°11	17°19	S 24
M 25	6 16 53	3°49'28	17°12	22°48	23°45	18°46	22° 5	17°56	6°59	10° 6	26°17	16°15	14°41	7°18	17°17	M 25
T 26	6 20 49	4°50'33	29°14	23°10	25° 1	18°27	22° 2	17°51	7° 0	10° 8	26°16	16°16	14°38	7°24	17°16	T 26
W 27	6 24 46	5°51'39	11♌6	23°22	26°16	18° 8	21°58	17°46	7° 1	10° 9	26°15	16°R18	14°34	7°31	17°14	W 27
T 28	6 28 42	6°52'46	22°54	23°R24	27°31	17°51	21°54	17°41	7° 1	10°10	26°14	16°17	14°31	7°37	17°12	T 28
F 29	6 32 39	7°53'52	4♋41	23°14	28°47	17°34	21°51	17°37	7° 2	10°11	26°12	16°15	14°28	7°44	17°10	F 29
S 30	6 36 36	8°54'58	16°30	22°53	0♌2	17°18	21°46	17°32	7° 3	10°13	26°11	16°11	14°25	7°51	17° 9	S 30
S 31	6 40 32	9♌56°05	28♋25	22♌20	1♌18	17♋2	21♌42	17♌27	7°Y 3	10♏14	26♌10	16♋4	14♋22	7♋57	17♋7	S 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	21s51	18n28	0s48	25s20	2s 6	17s35	1n 6	25n32	2n 8	14n40	0n42	21n32	0s27	2n 8
S 2	22 0	19 46	1 51	25 28	2 10	17 55	1 4	25 34	2 11	14 40	0 42	21 33	0 27	2 8
S 3	22 8	20 12	2 49	25 34	2 12	18 15	1 2	25 37	2 14	14 39	0 42	21 33	0 27	2 7
M 4	22 16	19 44	3 40	25 38	2 15	18 34	1 0	25 39	2 17	14 39	0 42	21 34	0 27	2 7
T 5	22 24	18 23	4 22	25 42	2 17	18 53	0 58	25 41	2 20	14 39	0 42	21 35	0 27	2 7
W 6	22 31	16 12	4 52	25 43	2 19	19 11	0 56	25 43	2 22	14 39	0 43	21 35	0 27	2 7
T 7	22 38	13 17	5 10	25 44	2 20	19 29	0 54	25 45	2 25	14 39	0 43	21 36	0 27	2 7
F 8	22 44	9 44	5 13	25 43	2 21	19 46	0 52	25 47	2 27	14 40	0 43	21 36	0 27	2 7
S 9	22 50	5 40	5 1	25 40	2 21	20 2	0 50	25 48	2 30	14 40	0 43	21 37	0 27	2 6
S 10	22 55	1 15	4 33	25 36	2 21	20 18	0 48	25 49	2 32	14 40	0 44	21 38	0 27	2 6
M 11	23 0	3s21	3 50	25 31	2 20	20 34	0 46	25 51	2 34	14 41	0 44	21 38	0 27	2 6
T 12	23 5	7 55	2 53	25 24	2 19	20 48	0 43	25 52	2 37	14 41	0 44	21 39	0 27	2 6
W 13	23 9	12 12	1 44	25 16	2 17	21 3	0 41	25 53	2 39	14 42	0 44	21 39	0 26	2 6
T 14	23 13	15 52	0 26	25 7	2 15	21 16	0 39	25 54	2 41	14 42	0 45	21 40	0 26	2 6
F 15	23 16	18 35	0n55	24 56	2 11	21 29	0 37	25 54	2 43	14 43	0 45	21 41	0 26	2 6
S 16	23 18	20 1	2 13	24 44	2 7	21 42	0 34	25 55	2 45	14 43	0 45	21 41	0 26	2 6
S 17	23 21	20 1	3 23	24 31	2 2	21 53	0 32	25 55	2 47	14 44	0 45	21 42	0 26	2 6
M 18	23 22	18 34	4 17	24 17	1 57	22 4	0 30	25 56	2 49	14 45	0 45	21 43	0 26	2 6
T 19	23 24	15 53	4 53	24 1	1 50	22 15	0 27	25 56	2 50	14 46	0 46	21 43	0 26	2 6
W 20	23 24	12 18	5 9	23 45	1 42	22 25	0 25	25 56	2 52	14 47	0 46	21 44	0 26	2 7
T 21	23 25	8 7	5 6	23 28	1 33	22 34	0 22	25 56	2 53	14 48	0 46	21 45	0 26	2 7
F 22	23 25	3 41	4 46	23 10	1 24	22 42	0 20	25 55	2 55	14 49	0 46	21 46	0 26	2 7
S 23	23 24	0n47	4 11	22 52	1 13	22 50	0 18	25 55	2 56	14 50	0 47	21 46	0 26	2 7
S 24	23 23	5 5	3 25	22 34	1 0	22 57	0 15	25 54	2 57	14 51	0 47	21 47	0 26	2 7
M 25	23 22	9 4	2 31	22 16	0 47	23 3	0 13	25 54	2 58	14 53	0 47	21 48	0 25	2 7
T 26	23 20	12 36	1 31	21 58	0 32	23 9	0 10	25 53	2 59	14 54	0 47	21 48	0 25	2 8
W 27	23 17	15 35	0 28	21 40	0 17	23 14	0 8	25 53	3 0	14 55	0 48	21 49	0 25	2 8
T 28	23 14	17 54	0s36	21 23	0n 0	23 18	0 5	25 52	3 1	14 57	0 48	21 50	0 25	2 8
F 29	23 11	19 27	1 37	21 7	0 18	23 22	0 3	25 51	3 2	14 58	0 48	21 51	0 25	2 9
S 30	23 7	20 9	2 35	20 52	0 37	23 24	0 1	25 50	3 3	15 0	0 48	21 51	0 25	2 9
S 31	23s 3	19n58	3s26	20s38	0n57	23s26	0s 2	25n49	3n 3	15n 1	0n48	21n52	0s25	2n 9

Julian Day Number = 2517623.5, Delta T = 145.49 sec
Ecliptic obliquity = 23°24'50, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 27°16'06, Lahiri = 26°23'07