



Astrodienst Ephemeris Tables for the year 2138

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 2138
geocentric

JANUARY 2138

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	6 42 10	10 ³² 23'38	0 ⁰⁰ 45	0 ⁰³ 5	17 ¹⁷ 27	18 ⁰⁰ 38	22 ²² 22	25 ²⁵ 7	11 ¹¹ 2	8 ⁰⁸ 52	8 ⁰⁸ 53	4 ⁰⁴ D16	6 ⁰⁶ ✠0	28 ²⁸ 34	23 ²³ R14	W 1
T 2	6 46 6	11 ⁰² 23'46	12 ⁰⁰ 40	1 ⁰³ 37	18 ⁰⁸ 43	18 ⁰⁸ 51	22 ²² 36	25 ²⁵ 14	11 ¹¹ 3	8 ⁰⁸ 54	8 ⁰⁸ 52	4 ⁰⁴ ✠16	5 ⁰⁵ 57	28 ²⁸ 41	23 ²³ II10	T 2
F 3	6 50 3	12 ⁰² 24'54	24 ⁰⁰ 46	3 ⁰¹ 10	19 ⁰⁸ 58	19 ⁰⁹ 3	22 ²² 49	25 ²⁵ 21	11 ¹¹ 3	8 ⁰⁸ 56	8 ⁰⁸ 51	4 ⁰⁴ 17	5 ⁰⁵ 53	28 ²⁸ 48	23 ²³ 7	F 3
S 4	6 53 59	13 ⁰² 26'03	7 ⁰⁰ 47	4 ⁰⁴ 3	21 ⁰⁹ 14	19 ⁰⁹ 15	23 ²³ 2	25 ²⁵ 28	11 ¹¹ 4	8 ⁰⁸ 58	8 ⁰⁸ 50	4 ⁰⁴ 18	5 ⁰⁵ 50	28 ²⁸ 55	23 ²³ 3	S 4
S 5	6 57 56	14 ⁰² 27'12	19 ⁰⁰ 48	6 ⁰¹ 17	22 ⁰⁹ 29	19 ⁰⁹ 26	23 ²³ 15	25 ²⁵ 35	11 ¹¹ 5	9 ⁰⁹ 0	8 ⁰⁸ 49	4 ⁰⁴ R18	5 ⁰⁴ 7	29 ²⁹ 1	23 ²³ 0	S 5
M 6	7 1 52	15 ⁰² 28'22	2 ⁰⁰ 54	7 ⁰⁵ 1	23 ⁰⁹ 44	19 ⁰⁹ 37	23 ²³ 28	25 ²⁵ 42	11 ¹¹ 5	9 ⁰⁹ 2	8 ⁰⁸ 48	4 ⁰⁴ 16	5 ⁰⁴ 4	29 ²⁹ 8	22 ²² 56	M 6
T 7	7 5 49	16 ⁰² 29'31	16 ⁰⁰ 28	9 ⁰² 5	25 ⁰⁰ 0	19 ⁰⁹ 47	23 ²³ 41	25 ²⁵ 49	11 ¹¹ 6	9 ⁰⁹ 4	8 ⁰⁸ 47	4 ⁰⁴ 13	5 ⁰⁴ 1	29 ²⁹ 15	22 ²² 53	T 7
W 8	7 9 45	17 ⁰² 30'41	0 ⁰⁰ 33	10 ⁰⁵ 9	26 ⁰⁰ 15	19 ⁰⁹ 56	23 ²³ 54	25 ²⁵ 56	11 ¹¹ 6	9 ⁰⁹ 5	8 ⁰⁸ 46	4 ⁰⁴ 7	5 ⁰³ 7	29 ²⁹ 21	22 ²² 50	W 8
T 9	7 13 42	18 ⁰² 31'51	15 ⁰⁰ 5	12 ⁰³ 4	27 ⁰⁰ 31	20 ¹⁰ 5	24 ²⁴ 7	26 ²⁶ 3	11 ¹¹ 6	9 ⁰⁹ 7	8 ⁰⁸ 45	4 ⁰⁴ 0	5 ⁰³ 4	29 ²⁹ 28	22 ²² 47	T 9
F 10	7 17 39	19 ⁰² 33'02	0 ⁰⁰ 3	14 ⁰¹ 0	28 ⁰⁰ 46	20 ¹⁰ 13	24 ²⁴ 20	26 ²⁶ 10	11 ¹¹ 7	9 ⁰⁹ 9	8 ⁰⁸ 45	3 ⁰³ 53	5 ⁰³ 1	29 ²⁹ 35	22 ²² 43	F 10
S 11	7 21 35	20 ⁰² 34'12	15 ⁰⁰ 14	15 ⁰⁴ 5	0 ⁰⁰ 1	20 ¹⁰ 21	24 ²⁴ 33	26 ²⁶ 17	11 ¹¹ 7	9 ⁰⁹ 11	8 ⁰⁸ 44	3 ⁰³ 46	5 ⁰² 8	29 ²⁹ 41	22 ²² 40	S 11
S 12	7 25 32	21 ⁰² 35'22	0 ⁰⁰ 31	17 ⁰² 2	1 ⁰¹ 17	20 ¹⁰ 28	24 ²⁴ 46	26 ²⁶ 24	11 ¹¹ 7	9 ⁰⁹ 13	8 ⁰⁸ 43	3 ⁰³ 41	5 ⁰² 5	29 ²⁹ 48	22 ²² 37	S 12
M13	7 29 28	22 ⁰² 36'32	15 ⁰⁰ 42	18 ⁰⁵ 8	2 ⁰² 32	20 ¹⁰ 34	24 ²⁴ 59	26 ²⁶ 31	11 ¹¹ 7	9 ⁰⁹ 15	8 ⁰⁸ 42	3 ⁰³ 38	5 ⁰² 2	29 ²⁹ 55	22 ²² 34	M13
T 14	7 33 25	23 ⁰² 37'41	0 ⁰⁰ 39	20 ⁰³ 5	3 ⁰³ 48	20 ¹⁰ 40	25 ²⁵ 12	26 ²⁶ 38	11 ¹¹ 8	9 ⁰⁹ 16	8 ⁰⁸ 41	3 ⁰³ D36	5 ⁰¹ 8	0 ⁰⁰ 1	22 ²² 31	T 14
W15	7 37 21	24 ⁰² 38'50	15 ⁰⁰ 13	22 ⁰² 13	5 ⁰⁵ 3	20 ¹⁰ 44	25 ²⁵ 24	26 ²⁶ 46	11 ¹¹ R 8	9 ⁰⁹ 18	8 ⁰⁸ 41	3 ⁰³ 37	5 ⁰¹ 5	0 ⁰⁰ 8	22 ²² 28	W15
T 16	7 41 18	25 ⁰² 39'58	29 ⁰⁰ 22	23 ⁰⁵ 0	6 ⁰⁶ 18	20 ¹⁰ 49	25 ²⁵ 37	26 ²⁶ 53	11 ¹¹ 8	9 ⁰⁹ 20	8 ⁰⁸ 40	3 ⁰³ 38	5 ⁰¹ 2	0 ⁰⁰ 15	22 ²² 25	T 16
F 17	7 45 14	26 ⁰² 41'05	13 ⁰⁰ Y 5	25 ⁰² 29	7 ⁰⁷ 34	20 ¹⁰ 52	25 ²⁵ 50	27 ²⁷ 0	11 ¹¹ 8	9 ⁰⁹ 21	8 ⁰⁸ 39	3 ⁰³ 39	5 ⁰⁰ 9	0 ⁰⁰ 21	22 ²² 22	F 17
S 18	7 49 11	27 ⁰² 42'12	26 ⁰⁰ 22	27 ⁰⁰ 8	8 ⁰⁸ 49	20 ¹⁰ 55	26 ²⁶ 2	27 ²⁷ 7	11 ¹¹ 7	9 ⁰⁹ 23	8 ⁰⁸ 38	3 ⁰³ R40	5 ⁰⁰ 6	0 ⁰⁰ 28	22 ²² 19	S 18
S 19	7 53 8	28 ⁰² 43'18	9 ⁰⁰ 8	28 ⁰⁰ 47	10 ¹⁰ 4	20 ¹⁰ 57	26 ²⁶ 15	27 ²⁷ 14	11 ¹¹ 7	9 ⁰⁹ 25	8 ⁰⁸ 38	3 ⁰³ 40	5 ⁰⁰ 3	0 ⁰⁰ 35	22 ²² 16	S 19
M20	7 57 4	29 ⁰² 44'23	21 ⁰⁰ 55	0 ⁰⁰ 27	11 ¹¹ 9	20 ¹⁰ 58	26 ²⁶ 27	27 ²⁷ 21	11 ¹¹ 7	9 ⁰⁹ 26	8 ⁰⁸ 37	3 ⁰³ 37	4 ⁵⁹ 9	0 ⁰⁰ 41	22 ²² 14	M20
T 21	8 1 1	0 ⁰⁰ 45'27	4 ⁰⁰ II 16	2 ⁰⁰ 8	12 ¹² 35	20 ¹⁰ R59	26 ²⁶ 40	27 ²⁷ 28	11 ¹¹ 7	9 ⁰⁹ 28	8 ⁰⁸ 36	3 ⁰³ 34	4 ⁵⁶ 6	0 ⁰⁰ 48	22 ²² 11	T 21
W22	8 4 57	1 ⁰⁰ 46'31	16 ⁰⁰ 27	3 ⁰⁴ 9	13 ¹³ 50	20 ¹⁰ 59	26 ²⁶ 52	27 ²⁷ 35	11 ¹¹ 6	9 ⁰⁹ 29	8 ⁰⁸ 36	3 ⁰³ 29	4 ⁵³ 3	0 ⁰⁰ 55	22 ²² 8	W22
T 23	8 8 54	2 ⁰⁰ 47'34	28 ⁰⁰ 28	5 ⁰³ 0	15 ¹⁵ 5	20 ¹⁰ 58	27 ²⁷ 4	27 ²⁷ 42	11 ¹¹ 6	9 ⁰⁹ 31	8 ⁰⁸ 35	3 ⁰³ 23	4 ⁵⁰ 0	1 ⁰¹ 1	22 ²² 6	T 23
F 24	8 12 50	3 ⁰⁰ 48'36	10 ⁰⁰ 23	7 ⁰¹ 2	16 ¹⁶ 21	20 ¹⁰ 56	27 ²⁷ 16	27 ²⁷ 50	11 ¹¹ 6	9 ⁰⁹ 33	8 ⁰⁸ 35	3 ⁰³ 17	4 ⁴⁷ 7	1 ⁰⁰ 8	22 ²² 3	F 24
S 25	8 16 47	4 ⁰⁰ 49'37	22 ⁰⁰ 15	8 ⁰⁵ 5	17 ¹⁷ 36	20 ¹⁰ 54	27 ²⁷ 29	27 ²⁷ 57	11 ¹¹ 5	9 ⁰⁹ 34	8 ⁰⁸ 34	3 ⁰³ 12	4 ⁴³ 3	1 ⁰¹ 5	22 ²² 1	S 25
S 26	8 20 44	5 ⁰⁰ 50'38	4 ⁰⁰ Ω 4	10 ⁰³ 8	18 ¹⁸ 51	20 ¹⁰ 50	27 ²⁷ 41	28 ²⁸ 4	11 ¹¹ 4	9 ⁰⁹ 35	8 ⁰⁸ 33	3 ⁰³ 8	4 ⁴⁰ 4	1 ⁰² 1	21 ²¹ 58	S 26
M27	8 24 40	6 ⁰⁰ 51'38	15 ⁰⁰ 53	12 ⁰² 1	20 ²⁰ 6	20 ¹⁰ 47	27 ²⁷ 53	28 ²⁸ 11	11 ¹¹ 4	9 ⁰⁹ 37	8 ⁰⁸ 33	3 ⁰³ 5	4 ³⁷ 3	1 ⁰² 8	21 ²¹ 56	M27
T 28	8 28 37	7 ⁰⁰ 52'37	27 ⁰⁰ 44	14 ⁰⁰ 5	21 ²¹ 21	20 ¹⁰ 42	28 ²⁸ 5	28 ²⁸ 18	11 ¹¹ 3	9 ⁰⁹ 38	8 ⁰⁸ 32	3 ⁰³ D 4	4 ³⁴ 3	1 ⁰³ 5	21 ²¹ 54	T 28
W29	8 32 33	8 ⁰⁰ 53'35	9 ⁰⁰ η 40	15 ⁰⁴ 9	22 ²² 37	20 ¹⁰ 36	28 ²⁸ 17	28 ²⁸ 25	11 ¹¹ 2	9 ⁰⁹ 40	8 ⁰⁸ 32	3 ⁰³ 4	4 ³¹ 3	1 ⁰⁴ 1	21 ²¹ 52	W29
T 30	8 36 30	9 ⁰⁰ 54'32	21 ⁰⁰ 41	17 ⁰³ 4	23 ²³ 52	20 ¹⁰ 30	28 ²⁸ 28	28 ²⁸ 32	11 ¹¹ 2	9 ⁰⁹ 41	8 ⁰⁸ 31	3 ⁰³ 5	4 ²⁸ 3	1 ⁰⁴ 8	21 ²¹ 50	T 30
F 31	8 40 26	10 ⁰⁰ 55'29	3 ⁰⁰ Ω 53	19 ⁰⁰ 19	25 ²⁵ 7	20 ¹⁰ 23	28 ²⁸ 40	28 ²⁸ 39	11 ¹¹ 1	9 ⁰⁹ 42	8 ⁰⁸ 31	3 ⁰³ ✠ 7	4 ²⁴ ✠	1 ⁰⁵ 5	21 ²¹ 47	F 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	decl	lat	
W 1	23s 1	11n30	0n19	24s 8	0s43	23s12	0s55	7n15	3n 0	22s47	0n26	21s10	0s 4	3s42	0n43	20s14	1n33	9n53	12s 1	9s56	9s18	23n30	17n12	6s 3		
T 2	22 56	6 6	0s45	24 14	0 49	23 4	0 57	7 12	3 2	22 47	0 26	21 9	0 4	3 43	0 43	20 14	1 33	9 53	12 1	9 56	9 20	23 28	17 12	6 3		
F 3	22 51	0 25	1 48	24 19	0 55	22 55	0 59	7 9	3 4	22 48	0 26	21 7	0 4	3 43	0 43	20 14	1 33	9 53	12 0	9 56	9 21	23 26	17 12	6 3		
S 4	22 45	5s23	2 48	24 22	1 1	22 45	1 1	7 6	3 5	22 49	0 25	21 6	0 4	3 43	0 43	20 14	1 33	9 53	12 0	9 56	9 22	23 24	17 12	6 3		
S 5	22 38	11 8	3 41	24 23	1 7	22 35	1 3	7 3	3 7	22 50	0 25	21 5	0 4	3 43	0 43	20 15	1 33	9 53	12 0	9 56	9 23	23 22	17 12	6 3		
M 6	22 32	16 36	4 24	24 24	1 13	22 24	1 4	7 0	3 9	22 50	0 25	21 4	0 4	3 44	0 43	20 15	1 33	9 53	12 0	9 56	9 24	23 19	17 12	6 3		
T 7	22 24	21 26	4 54	24 23	1 18	22 12	1 6	6 58	3 11	22 51	0 25	21 3	0 5	3 44	0 43	20 15	1 33	9 54	12 0	9 58	9 25	23 17	17 12	6 3		
W 8	22 17	25 16	5 8	24 21	1 23	22 0	1 8	6 56	3 13	22 52	0 25	21 1	0 5	3 44	0 43	20 16	1 33	9 54	12 0	10 0	9 27	23 15	17 12	6 3		
T 9	22 9	27 36	5 3	24 17	1 28	21 47	1 9	6 54	3 14	22 52	0 25	21 0	0 5	3 44	0 43	20 16	1 34	9 54	11 59	10 2	9 28	23 13	17 11	6 3		
F 10	22 0	28 3	4 37	24 12	1 32	21 33	1 11	6 53	3 16	22 53	0 25	20 59	0 5	3 44	0 43	20 16	1 34	9 54	11 59	10 5	9 29	23 11	17 11	6 3		
S 11	21 51	26 24	3 52	24 6	1 37	21 19	1 12	6 51	3 18	22 54	0 25	20 58	0 5	3 44	0 43	20 16	1 34	9 54	11 59	10 7	9 30	23 9	17 11	6 2		
S 12	21 42	22 47	2 50	23 58	1 41	21 4	1 14	6 50	3 20	22 54	0 25	20 56	0 5	3 44	0 43	20 17	1 34	9 54	11 59	10 9	9 31	23 7	17 11	6 2		
M13	21 32	17 38	1 36	23 49	1 45	20 48	1 15	6 50	3 22	22 55	0 25	20 55	0 5	3 44	0 43	20 17	1 34	9 54	11 58	10 10	9 32	23 5	17 11	6 2		
T 14	21 21	11 29	0 16	23 38	1 48	20 32	1 16	6 49	3 24	22 55	0 25	20 54	0 5	3 44	0 43	20 17	1 34	9 54	11 58	10 11	9 34	23 2	17 11	6 2		
W15	21 11	4 51	1n 3	23 26	1 52	20 15	1 18	6 49	3 26	22 56	0 25	20 52	0 5	3 44	0 43	20 17	1 34	9 54	11 58	10 11	9 35	23 0	17 11	6 2		
T 16	21 0	1n49	2 16	23 12	1 54	19 58	1 19	6 49	3 27	22 56	0 25	20 51	0 5	3 44	0 43	20 17	1 34	9 54	11 58	10 10	9 36	22 58	17 11	6 2		
F 17	20 48	8 12	3 18	22 57	1 57	19 40	1 20	6 49	3 29	22 57	0 25	20 50	0 5	3 44	0 43	20 18	1 34	9 54	11 58	10 10	9 37	22 56	17 11	6 1		
S 18	20 36	14 2	4 8	22 40	1 59	19 21	1 21	6 50	3 31	22 57	0 25	20 49	0 5	3 44	0 43	20 18	1 34	9 55	11 57	10 9	9 38	22 54	17 11	6 1		
S 19	20 24	19 4	4 44	22 22	2 1	19 2	1 22	6 51	3 33	22 58	0 25	20 47	0 5	3 44	0 43	20 18	1 34	9 55	11 57	10 10	9 39	22 52	17 12	6 1		
M20	20 12	23 9	5 5	22 3	2 3	18 42	1 23	6 52	3 35	22 58	0 25	20 46	0 5	3 44	0 43	20 18	1 34	9 55	11 57	10 10	9 41	22 50	17 12	6 1		
T 21	19 58	26 5	5 12	21 41	2 4	18 22	1 24	6 53	3 37	22 58	0 25	20 45	0 6	3 44	0 43	20 18	1 34	9 55	11 57	10 12	9 42	22 47	17 12	6 1		
W22	19 45	27 46	5 4	21 19	2 5	18 1	1 25	6 55	3 38	22 59	0 24	20 43	0 6	3 44	0 43	20 19	1 34	9 55	11 56	10 14	9 43	22 45	17 12	6 0		
T 23	19 31	28 8	4 43	20 55	2 6	17 40	1 26	6 57	3 40	22 59	0 24	20 42	0 6	3 43	0 43	20 19	1 34	9 55	11 56	10 16	9 44	22 43	17 12	6 0		
F 24	19 17	27 10	4 9	20 29	2 6	17 18	1 27	6 59	3 42	22 59	0 24	20 41	0 6	3 43	0 44	20 19	1 34	9 55	11 56	10 18	9 45	22 41	17 12	6 0		
S 25	19 3	24 58	3 25	20 2	2 5	16 56	1 27	7 2	3 44	23 0	0 24	20 39	0 6	3 43	0 44	20 19	1 34	9 56	11 56	10 19	9 46	22 39	17 12	6 0		
S 26	18 48	21 42	2 33	19 33	2 4	16 33	1 28	7 5	3 46	23 0	0 24	20 38	0 6	3 43	0 44	20 19	1 34	9 56	11 55	10 21	9 47	22 36	17 12	5 59		
M27	18 33	17 33	1 33	19 3	2 3	16 10	1 29	7 8	3 47	23 0	0 24	20 37	0 6	3 42	0 44	20 20	1 34	9 56	11 55	10 22	9 49	22 34	17 12	5 59		
T 28	18 17	12 43	0 29	18 31	2 1	15 47	1 29	7 12	3 49	23 0	0 24	20 35	0 6	3 42	0 44	20 20	1 34	9 56	11 55	10 22	9 50	22 32	17 12	5 59		
W29	18 1	7 23	0s36	17 58	1 59	15 23	1 30	7 15	3 51	23 1	0 24	20 34	0 6	3 42	0 44	20 20	1 34	9 56	11 55	10 22	9 51	22 30	17 13	5 59		
T 30	17 45	1 45	1 41	17 24	1 56	14 58	1 30	7 19	3 52	23 1	0 24	20 33	0 6	3 41	0 44	20 20	1 34	9 56	11 54	10 22	9 52	22 27	17 13	5 58		
F 31	17s29	4s 1	2s42	16s48	1s52	14s33	1s30	7n24	3n54	23s 1	0n24	20s31	0s 6	3s41	0n44	20s20	1n34	9n57	11s54	10s21	9s53	22n25	17n13	5s58		

ASTRODIENST EPHEMERIS for the year 2138

geocentric

FEBRUARY 2138

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 23	11°56'25	16°17	21°4	26°22	20°R15	28°52	28°346	11°R 0	9°44	8°R30	3°H 8	4°H21	2°L 1	21°R46	S 1
S 2	8 48 19	12°57'20	28°59	22°49	27°37	20°H 6	29° 3	28°53	10°H59	9°45	8°H30	3°10	4°18	2° 8	21°H44	S 2
M 3	8 52 16	13°58'15	12°H 1	24°34	28°52	19°56	29°15	29° 0	10°58	9°46	8°30	3°R10	4°15	2°15	21°42	M 3
T 4	8 56 12	14°59'09	25°27	26°19	0°H 7	19°46	29°26	29° 7	10°57	9°47	8°29	3°10	4°12	2°21	21°40	T 4
W 5	9 0 9	16° 0'02	9°H18	28° 4	1°22	19°35	29°38	29°14	10°56	9°49	8°29	3° 9	4° 9	2°28	21°38	W 5
T 6	9 4 6	17° 0'55	23°35	29°48	2°37	19°23	29°49	29°21	10°55	9°50	8°29	3° 7	4° 5	2°35	21°37	T 6
F 7	9 8 2	18° 1'46	8°H16	1°H30	3°52	19°10	0°H 0	29°28	10°54	9°51	8°28	3° 5	4° 2	2°41	21°35	F 7
S 8	9 11 59	19° 2'37	23°15	3°12	5° 7	18°57	0°11	29°34	10°52	9°52	8°28	3° 3	3°59	2°48	21°34	S 8
S 9	9 15 55	20° 3'27	8°H25	4°52	6°22	18°43	0°22	29°41	10°51	9°53	8°28	3° 2	3°56	2°55	21°32	S 9
M10	9 19 52	21° 4'15	23°36	6°30	7°37	18°28	0°33	29°48	10°50	9°54	8°27	3° 1	3°53	3° 1	21°31	M10
T 11	9 23 48	22° 5'02	8°H38	8° 6	8°52	18°12	0°44	29°55	10°48	9°55	8°27	3°D 1	3°49	3° 8	21°30	T 11
W12	9 27 45	23° 5'48	23°23	9°38	10° 7	17°56	0°55	0°H 2	10°47	9°56	8°27	3° 1	3°46	3°15	21°29	W12
T 13	9 31 42	24° 6'32	7°H46	11° 7	11°22	17°38	1° 6	0° 8	10°45	9°57	8°27	3° 2	3°43	3°21	21°27	T 13
F 14	9 35 38	25° 7'15	21°41	12°32	12°37	17°21	1°16	0°15	10°44	9°58	8°27	3° 3	3°40	3°28	21°26	F 14
S 15	9 39 35	26° 7'56	5°H10	13°52	13°52	17° 2	1°27	0°22	10°42	9°59	8°26	3° 4	3°37	3°35	21°25	S 15
S 16	9 43 31	27° 8'36	18°12	15° 7	15° 7	16°43	1°37	0°28	10°41	9°59	8°26	3° 4	3°34	3°41	21°25	S 16
M17	9 47 28	28° 9'14	0°H52	16°15	16°22	16°24	1°47	0°35	10°39	10° 0	8°26	3°R 4	3°30	3°48	21°24	M17
T 18	9 51 24	29° 9'50	13°14	17°16	17°36	16° 4	1°58	0°41	10°37	10° 1	8°26	3° 4	3°27	3°55	21°23	T 18
W19	9 55 21	0°H1024	25°21	18°10	18°51	15°43	2° 8	0°48	10°36	10° 2	8°26	3° 4	3°24	4° 1	21°23	W19
T 20	9 59 17	1°10'57	7°H17	18°55	20° 6	15°22	2°18	0°54	10°34	10° 2	8°26	3° 3	3°21	4° 8	21°22	T 20
F 21	10 3 14	2°11'28	19° 8	19°31	21°20	15° 1	2°27	1° 1	10°32	10° 3	8°D26	3° 3	3°18	4°15	21°22	F 21
S 22	10 7 11	3°11'57	0°H56	19°58	22°35	14°39	2°37	1° 7	10°30	10° 4	8°26	3°D 3	3°15	4°21	21°21	S 22
S 23	10 11 7	4°12'25	12°45	20°15	23°50	14°16	2°47	1°14	10°28	10° 4	8°26	3° 3	3°11	4°28	21°21	S 23
M24	10 15 4	5°12'51	24°37	20°R22	25° 4	13°54	2°56	1°20	10°26	10° 5	8°26	3° 3	3° 8	4°35	21°21	M24
T 25	10 19 0	6°13'15	6°H35	20°19	26°19	13°31	3° 6	1°26	10°24	10° 5	8°26	3°R 3	3° 5	4°41	21°20	T 25
W26	10 22 57	7°13'37	18°41	20° 5	27°33	13° 8	3°15	1°33	10°22	10° 6	8°26	3° 3	3° 2	4°48	21°D20	W26
T 27	10 26 53	8°13'58	0°H55	19°43	28°48	12°44	3°24	1°39	10°20	10° 6	8°26	3° 3	2°59	4°55	21°20	T 27
F 28	10 30 50	9°H14'17	13°H21	19°H11	0°Y 2	12°H21	3°H33	1°H45	10°H18	10°H 7	8°H27	3°H 2	2°H55	5°L 1	21°H21	F 28

Day	☉	☾	♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s12	9s44	3s36	16s11	1s48	14s 8	1s30	7n28	3n56	23s 1	0n24	20s30	0s 6	3s41	0n44	20s20	1n34	9n57	11s54	10s21	9s54	22n23	17n13	5s58			
S 2	16 55	15 11	4 22	15 32	1 44	13 43	1 31	7 33	3 57	23 1	0 24	20 28	0 6	3 40	0 44	20 21	1 34	9 57	11 54	10 20	9 56	22 21	17 13	5 57			
M 3	16 37	20 6	4 55	14 52	1 38	13 17	1 31	7 39	3 59	23 1	0 24	20 27	0 6	3 40	0 44	20 21	1 34	9 57	11 53	10 20	9 57	22 18	17 13	5 57			
T 4	16 20	24 11	5 13	14 11	1 32	12 50	1 31	7 44	4 0	23 2	0 24	20 26	0 7	3 39	0 44	20 21	1 34	9 57	11 53	10 20	9 58	22 16	17 14	5 57			
W 5	16 2	27 0	5 14	13 29	1 26	12 24	1 31	7 50	4 2	23 2	0 24	20 24	0 7	3 39	0 44	20 21	1 34	9 58	11 53	10 21	9 59	22 14	17 14	5 57			
T 6	15 44	28 12	4 56	12 46	1 18	11 56	1 31	7 56	4 3	23 2	0 24	20 23	0 7	3 39	0 44	20 21	1 35	9 58	11 53	10 21	10 0	22 12	17 14	5 56			
F 7	15 25	27 28	4 19	12 1	1 10	11 29	1 30	8 2	4 5	23 2	0 24	20 22	0 7	3 38	0 44	20 21	1 35	9 58	11 52	10 22	10 1	22 9	17 14	5 56			
S 8	15 6	24 45	3 23	11 17	1 1	11 1	1 30	8 9	4 6	23 2	0 24	20 20	0 7	3 37	0 44	20 21	1 35	9 58	11 52	10 23	10 3	22 7	17 14	5 56			
S 9	14 47	20 16	2 12	10 31	0 52	10 34	1 30	8 15	4 7	23 2	0 24	20 19	0 7	3 37	0 44	20 21	1 35	9 59	11 52	10 23	10 4	22 5	17 15	5 55			
M10	14 28	14 28	0 52	9 46	0 41	10 5	1 29	8 22	4 9	23 2	0 24	20 18	0 7	3 36	0 44	20 22	1 35	9 59	11 51	10 23	10 5	22 3	17 15	5 55			
T 11	14 8	7 51	0n31	9 0	0 30	9 37	1 29	8 30	4 10	23 2	0 24	20 16	0 7	3 36	0 44	20 22	1 35	9 59	11 51	10 23	10 6	22 0	17 15	5 55			
W12	13 49	0 56	1 51	8 14	0 18	9 8	1 29	8 37	4 11	23 2	0 23	20 15	0 7	3 35	0 44	20 22	1 35	9 59	11 51	10 23	10 7	21 58	17 15	5 54			
T 13	13 29	5n51	3 1	7 29	0 6	8 39	1 28	8 45	4 12	23 2	0 23	20 14	0 7	3 35	0 44	20 22	1 35	10 0	11 51	10 23	10 8	21 56	17 16	5 54			
F 14	13 8	12 8	3 59	6 44	0n 7	8 10	1 27	8 52	4 13	23 2	0 23	20 12	0 7	3 34	0 44	20 22	1 35	10 0	11 50	10 23	10 9	21 53	17 16	5 54			
S 15	12 48	17 38	4 41	6 1	0 21	7 40	1 27	9 0	4 14	23 2	0 23	20 11	0 7	3 33	0 44	20 22	1 35	10 0	11 50	10 23	10 11	21 51	17 16	5 53			
S 16	12 27	22 9	5 7	5 19	0 35	7 11	1 26	9 9	4 14	23 2	0 23	20 9	0 7	3 33	0 44	20 22	1 35	10 0	11 50	10 22	10 12	21 49	17 17	5 53			
M17	12 6	25 29	5 17	4 39	0 50	6 41	1 25	9 17	4 15	23 1	0 23	20 8	0 8	3 32	0 44	20 22	1 35	10 1	11 49	10 22	10 13	21 46	17 17	5 53			
T 18	11 45	27 32	5 13	4 1	1 6	6 11	1 24	9 25	4 16	23 1	0 23	20 7	0 8	3 31	0 44	20 22	1 35	10 1	11 49	10 22	10 14	21 44	17 17	5 52			
W19	11 24	28 14	4 54	3 26	1 21	5 41	1 23	9 34	4 16	23 1	0 23	20 5	0 8	3 31	0 44	20 22	1 35	10 1	11 49	10 23	10 15	21 42	17 17	5 52			
T 20	11 3	27 36	4 23	2 54	1 37	5 11	1 22	9 42	4 17	23 1	0 23	20 4	0 8	3 30	0 44	20 22	1 35	10 1	11 49	10 23	10 16	21 39	17 18	5 51			
F 21	10 41	25 42	3 41	2 25	1 52	4 40	1 21	9 51	4 17	23 1	0 23	20 3	0 8	3 29	0 44	20 22	1 35	10 2	11 48	10 23	10 17	21 37	17 18	5 51			
S 22	10 20	22 41	2 49	2 1	2 8	4 10	1 20	10 0	4 17	23 1	0 23	20 1	0 8	3 28	0 44	20 22	1 35	10 2	11 48	10 23	10 19	21 35	17 18	5 51			
S 23	9 58	18 44	1 50	1 40	2 23	3 39	1 18	10 9	4 17	23 1	0 23	20 0	0 8	3 28	0 44	20 22	1 35	10 2	11 48	10 23	10 20	21 32	17 19	5 50			
M24	9 36	14 2	0 47	1 25	2 37	3 8	1 17	10 17	4 17	23 0	0 23	19 59	0 8	3 27	0 44	20 22	1 35	10 3	11 47	10 23	10 21	21 30	17 19	5 50			
T 25	9 13	8 47	0s20	1 13	2 50	2 37	1 16	10 26	4 17	23 0	0 23	19 58	0 8	3 26	0 44	20 22	1 35	10 3	11 47	10 23	10 22	21 28	17 20	5 50			
W26	8 51	3 10	1 26	1 7	3 3	2 6	1 14	10 35	4 17	23 0	0 23	19 56	0 8	3 25	0 44	20 22	1 35	10 3	11 47	10 23	10 23	21 25	17 20	5 49			
T 27	8 29	2s38	2 29	1 6	3 14	1 36	1 13	10 44	4 17	23 0	0 23	19 55	0 8	3 25	0 44	20 23	1 36	10 4	11 47	10 23	10 24	21 23	17 20	5 49			
F 28	8s 6	8s25	3s26	1s10	3n23	1s 4	1s11	10n53	4n17	23s 0	0n23	19s54	0s 8	3s24	0n45	20s23	1n36	10n 4	11s46	10s23	10s25	21n20	17n21	5s49			

Julian Day Number = 2501979.5, Delta T = 113.85 sec

Ecliptic obliquity = 23°25'25, Nutation = 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°40'11, Lahiri = 25°47'12

ASTRODIENST EPHEMERIS for the year 2138
geocentric

MARCH 2138

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	10 34 46	10 ^h 14 ^m 35 ^s	25 ^h 59 ^m	18°R31	1°Y17	11°R57	3 ^h 42 ^m	1 ^h 51 ^m	10°R16	10 ^h 7 ^m	8 ^h 27 ^m	3°R 1	2 ^h 52 ^m	5 ^h 08 ^m	21 ^h 21 ^m	S 1
S 2	10 38 43	11°14'51"	8 ^h 51 ^m	17 ^h 44 ^m	2°31'	11 ^h 33 ^m	3°51'	1°57'	10 ^h 14 ^m	10° 8'	8°27'	3 ^h 0'	2°49'	5°15'	21°21'	S 2
M 3	10 42 39	12°15'06"	21°59'	16°51'	3°46'	11° 9'	4° 0'	2° 3'	10°12'	10° 8'	8°27'	2°59'	2°46'	5°21'	21°21'	M 3
T 4	10 46 36	13°15'19"	5 ^h 24 ^m	15°53'	5° 0'	10°46'	4° 8'	2° 9'	10°10'	10° 8'	8°27'	2°59'	2°43'	5°28'	21°22'	T 4
W 5	10 50 33	14°15'31"	19° 8'	14°52'	6°14'	10°22'	4°17'	2°15'	10° 7'	10° 9'	8°28'	2°D59'	2°40'	5°35'	21°22'	W 5
T 6	10 54 29	15°15'42"	3 ^h 11 ^m	13°50'	7°29'	9°58'	4°25'	2°21'	10° 5'	10° 9'	8°28'	2°59'	2°36'	5°41'	21°23'	T 6
F 7	10 58 26	16°15'51"	17°32'	12°47'	8°43'	9°35'	4°34'	2°27'	10° 3'	10° 9'	8°28'	3° 0'	2°33'	5°48'	21°23'	F 7
S 8	11 2 22	17°15'59"	2 ^h 8 ^m	11°46'	9°57'	9°11'	4°42'	2°32'	10° 1'	10° 9'	8°29'	3° 1'	2°30'	5°55'	21°24'	S 8
S 9	11 6 19	18°16'04"	16°55'	10°48'	11°11'	8°48'	4°50'	2°38'	9°58'	10° 9'	8°29'	3° 2'	2°27'	6° 1'	21°25'	S 9
M10	11 10 15	19°16'08"	1 ^h 47 ^m	9°53'	12°25'	8°25'	4°57'	2°44'	9°56'	10° 9'	8°29'	3°R 2	2°24'	6° 8'	21°26'	M10
T 11	11 14 12	20°16'11"	16°37'	9° 3'	13°39'	8° 3'	5° 5'	2°49'	9°53'	10° 9'	8°30'	3° 2'	2°21'	6°15'	21°27'	T 11
W12	11 18 8	21°16'11"	1°Y16	8°19'	14°53'	7°41'	5°13'	2°55'	9°51'	10°R 9	8°30'	3° 1'	2°17'	6°21'	21°28'	W12
T 13	11 22 5	22°16'09"	15°38'	7°40'	16° 7'	7°19'	5°20'	3° 0'	9°49'	10° 9'	8°30'	2°59'	2°14'	6°28'	21°29'	T 13
F 14	11 26 2	23°16'06"	29°38'	7° 8'	17°21'	6°58'	5°27'	3° 6'	9°46'	10° 9'	8°31'	2°56'	2°11'	6°34'	21°30'	F 14
S 15	11 29 58	24°16'00"	13 ^h 13 ^m	6°42'	18°35'	6°37'	5°34'	3°11'	9°44'	10° 9'	8°31'	2°53'	2° 8'	6°41'	21°32'	S 15
S 16	11 33 55	25°15'52"	26°23'	6°22'	19°49'	6°17'	5°41'	3°16'	9°41'	10° 9'	8°32'	2°50'	2° 5'	6°48'	21°33'	S 16
M17	11 37 51	26°15'42"	9 ^h 11 ^m	6° 9'	21° 3'	5°57'	5°48'	3°21'	9°39'	10° 9'	8°32'	2°48'	2° 1'	6°54'	21°35'	M17
T 18	11 41 48	27°15'30"	21°34'	6° 3'	22°17'	5°38'	5°55'	3°27'	9°36'	10° 9'	8°33'	2°47'	1°58'	7° 1'	21°36'	T 18
W19	11 45 44	28°15'16"	3 ^h 34 ^m	6°D 2	23°31'	5°19'	6° 1'	3°32'	9°34'	10° 9'	8°33'	2°D47'	1°55'	7° 8'	21°38'	W19
T 20	11 49 41	29°14'59"	15°39'	6° 8'	24°44'	5° 1'	6° 8'	3°37'	9°31'	10° 8'	8°34'	2°48'	1°52'	7°14'	21°39'	T 20
F 21	11 53 37	0°Y14'40"	27°29'	6°19'	25°58'	4°44'	6°14'	3°42'	9°29'	10° 8'	8°34'	2°49'	1°49'	7°21'	21°41'	F 21
S 22	11 57 34	1°14'19"	9 ^h 17 ^m	6°36'	27°12'	4°27'	6°20'	3°47'	9°26'	10° 8'	8°35'	2°51'	1°46'	7°28'	21°43'	S 22
S 23	12 1 31	2°13'56"	21° 7'	6°58'	28°25'	4°11'	6°26'	3°51'	9°23'	10° 8'	8°36'	2°53'	1°42'	7°34'	21°45'	S 23
M24	12 5 27	3°13'30"	3 ^h 14 ^m	7°25'	29°39'	3°56'	6°31'	3°56'	9°21'	10° 7'	8°36'	2°R53'	1°39'	7°41'	21°47'	M24
T 25	12 9 24	4°13'02"	15°10'	7°56'	0 ^h 52 ^m	3°42'	6°37'	4° 1'	9°18'	10° 7'	8°37'	2°52'	1°36'	7°48'	21°49'	T 25
W26	12 13 20	5°12'32"	27°28'	8°31'	2° 6'	3°28'	6°42'	4° 5'	9°16'	10° 6'	8°38'	2°50'	1°33'	7°54'	21°51'	W26
T 27	12 17 17	6°12'00"	9 ^h 59 ^m	9°11'	3°19'	3°15'	6°48'	4°10'	9°13'	10° 6'	8°38'	2°46'	1°30'	8° 1'	21°53'	T 27
F 28	12 21 13	7°11'26"	22°44'	9°54'	4°32'	3° 3'	6°53'	4°14'	9°10'	10° 5'	8°39'	2°41'	1°26'	8° 8'	21°55'	F 28
S 29	12 25 10	8°10'51"	5 ^h 14 ^m	10°41'	5°46'	2°51'	6°58'	4°19'	9° 8'	10° 5'	8°40'	2°35'	1°23'	8°14'	21°58'	S 29
S 30	12 29 6	9°10'13"	18°55'	11°32'	6°59'	2°40'	7° 2'	4°23'	9° 5'	10° 4'	8°41'	2°29'	1°20'	8°21'	22° 0'	S 30
M31	12 33 3	10°Y 9'33"	2 ^h 20 ^m	12 ^h 25 ^m	8°12'	2 ^h 30 ^m	7 ^h 7 ^m	4 ^h 27 ^m	9 ^h 5 ^m	10 ^h 4 ^m	8 ^h 41 ^m	2 ^h 23 ^m	1 ^h 17 ^m	8 ^h 28 ^m	22 ^h 3 ^m	M31

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	decl	decl	decl	decl	lat	decl	decl	decl	lat
S 1	7s43	13s58	4s13	1s18	3n31	0s33	1s10	11n 1	4n16	23s 0	0n23	19s52	0s 8	3s23	0n45	20s23	1n36	10n 4	11s46	10s23	10s27	21n18	17n21	5s48									
S 2	7 21	19 0	4 50	1 31	3 37	0 2	1 8	11 10	4 16	22 59	0 23	19 51	0 9	3 22	0 45	20 23	1 36	10 4	11 46	10 24	10 28	21 16	17 21	5 48									
M 3	6 58	23 15	5 11	1 48	3 40	0n29	1 6	11 18	4 15	22 59	0 23	19 50	0 9	3 21	0 45	20 23	1 36	10 5	11 45	10 24	10 29	21 13	17 22	5 47									
T 4	6 35	26 23	5 17	2 9	3 42	1 0	1 4	11 27	4 14	22 59	0 23	19 49	0 9	3 20	0 45	20 23	1 36	10 5	11 45	10 24	10 30	21 11	17 22	5 47									
W 5	6 11	28 2	5 5	2 33	3 41	1 31	1 3	11 35	4 13	22 59	0 23	19 47	0 9	3 19	0 45	20 23	1 36	10 5	11 45	10 24	10 31	21 8	17 23	5 47									
T 6	5 48	27 57	4 34	3 0	3 38	2 2	1 1	11 43	4 12	22 58	0 23	19 46	0 9	3 18	0 45	20 22	1 36	10 6	11 45	10 24	10 32	21 6	17 23	5 46									
F 7	5 25	26 1	3 46	3 28	3 33	2 33	0 59	11 51	4 11	22 58	0 23	19 45	0 9	3 18	0 45	20 22	1 36	10 6	11 44	10 24	10 33	21 4	17 23	5 46									
S 8	5 2	22 19	2 43	3 58	3 26	3 4	0 57	11 59	4 10	22 58	0 23	19 44	0 9	3 17	0 45	20 22	1 36	10 6	11 44	10 23	10 35	21 1	17 24	5 46									
S 9	4 38	17 9	1 28	4 27	3 18	3 35	0 55	12 6	4 9	22 58	0 22	19 42	0 9	3 16	0 45	20 22	1 36	10 7	11 44	10 23	10 36	20 59	17 24	5 45									
M10	4 15	10 56	0 7	4 57	3 8	4 6	0 53	12 14	4 8	22 57	0 22	19 41	0 9	3 15	0 45	20 22	1 36	10 7	11 43	10 23	10 37	20 56	17 25	5 45									
T 11	3 51	4 8	1n14	5 27	2 56	4 37	0 50	12 21	4 6	22 57	0 22	19 40	0 9	3 14	0 45	20 22	1 36	10 7	11 43	10 23	10 38	20 54	17 25	5 44									
W12	3 28	2n48	2 30	5 55	2 44	5 7	0 48	12 28	4 5	22 57	0 22	19 39	0 9	3 13	0 45	20 22	1 36	10 8	11 43	10 24	10 39	20 51	17 26	5 44									
T 13	3 4	9 26	3 34	6 21	2 31	5 38	0 46	12 35	4 3	22 57	0 22	19 38	0 9	3 12	0 45	20 22	1 36	10 8	11 43	10 24	10 40	20 49	17 26	5 44									
F 14	2 40	15 27	4 24	6 46	2 17	6 8	0 44	12 41	4 1	22 56	0 22	19 37	0 10	3 11	0 45	20 22	1 36	10 8	11 42	10 25	10 41	20 46	17 26	5 43									
S 15	2 17	20 31	4 57	7 9	2 2	6 39	0 41	12 47	4 0	22 56	0 22	19 35	0 10	3 10	0 45	20 22	1 36	10 9	11 42	10 26	10 43	20 44	17 27	5 43									
S 16	1 53	24 24	5 13	7 30	1 48	7 9	0 39	12 53	3 58	22 56	0 22	19 34	0 10	3 9	0 45	20 22	1 36	10 9	11 42	10 27	10 44	20 42	17 27	5 43									
M17	1 29	26 58	5 13	7 48	1 33	7 39	0 36	12 58	3 56	22 56	0 22	19 33	0 10	3 8	0 45	20 22	1 36	10 9	11 42	10 28	10 45	20 39	17 28	5 42									
T 18	1 5	28 7	4 58	8 4	1 18	8 9	0 34	13 4	3 54	22 55	0 22	19 32	0 10	3 7	0 45	20 22	1 36	10 10	11 41	10 29	10 46	20 37	17 28	5 42									
W19	0 42	27 53	4 30	8 18	1 4	8 38	0 31	13 9	3 52	22 55	0 22	19 31	0 10	3 6	0 45	20 22	1 37	10 10	11 41	10 29	10 47	20 34	17 29	5 41									
T 20	0 18	26 20	3 51	8 29	0 49	9 8	0 29	13 13	3 50	22 55	0 22	19 30	0 10	3 5	0 45	20 22	1 37	10 10	11 41	10 28	10 48	20 32	17 29	5 41									
F 21	0n 6	23 38	3 2	8 38	0 35	9 37	0 26	13 18	3 48	22 55	0 22	19 29	0 10	3 4	0 45	20 22	1 37	10 11	11 40	10 28	10 49	20 29	17 30	5 41									
S 22	0 30	19 57	2 6	8 45	0 22	10 6	0 23	13 22	3 45	22 54	0 22	19 28	0 10	3 3	0 45	20 22	1 37	10 11	11 40	10 27	10 51	20 27	17 30	5 40									
S 23	0 53	15 28	1 4	8 49	0 9	10 35	0 21	13 26	3 43	22 54	0 22	19 27	0 10	3 2	0 45	20 21	1 37	10 11	11 40	10 27	10 52	20 24	17 31	5 40									
M24	1 17	10 22	0s 1	8 51	0s 4	11 4	0 18	13 29	3 41	22 54	0 22	19 26	0 10	3 1	0 45	20 21	1 37	10 12	11 40	10 26	10 53	20 22	17 31	5 40									
T 25	1 41	4 49	1 7	8 51	0 17	11 32	0 15	13 32	3 38	22 54	0 22	19 25	0 11	3 0	0 45	20 21	1 37	10 12	11 39	10 27	10 54	20 19	17 32	5 39									
W26	2 4	0s59	2 10	8 49	0 28	12 0	0 13	13 35	3 36	22 53	0 22	19 24	0 11	2 59	0 45	20 21	1 37	10 12	11 39	10 27	10 55	20 17	17 32	5 39									
T 27	2 28	6 51	3 9	8 44	0 40	12 28	0 10	13 38	3 34	22 53	0 22	19 23	0 11	2 58	0 45	20 21	1 37	10 13	11 39	10 29	10 56	20 14	17 32	5 39									
F 28	2 51	12 32	3 59	8 38	0 51	12 55	0 7	13 40	3 31	22 53	0 22	19 22	0 11	2 57	0 45	20 21	1 37	10 13	11 39	10 31	10 57	20 12	17 33	5 38									
S 29	3 15	17 46	4 37	8 30	1 1	13 22	0 4	13 42	3 29	22 53	0 22	19 21	0 11	2 56	0 45	20 21	1 37	10 14	11 38	10 33	10 58	20 9	17 33	5 38									
S 30	3 38	22 16	5 2	8 20	1 11	13 49	0 1	13 43	3 26	22 53	0 22	19 20	0 11	2 55	0 45	20 21	1 37	10 14	11 38	10 35	11 0	20 7	17 34	5 38									
M31	4n 1	25s41	5s11	8s 8	1s20	14n15	0n 2	13n45	3n24	22s52	0n22	19s19	0s11	2s54	0n45	20s21	1n37	10n14	11s38	10s37	11s 1	20n 4	17n34	5s37									

ASTRODIENST EPHEMERIS for the year 2138

geocentric

APRIL 2138

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 0	11° 8'52"	15° 58'	13° 22'	9° 25'	2° 21'	7° 12'	4° 31'	9° 0'	10° 3'	8° 42'	2° 19'	1° 14'	8° 23'	22° 11'	T 1
W 2	12 40 56	12° 8'09"	29° 46'	14° 21'	10° 38'	2° 13'	7° 16'	4° 36'	8° 57'	10° 2'	8° 43'	2° 17'	1° 11'	8° 41'	22° 8'	W 2
T 3	12 44 53	13° 7'24"	13° 44'	15° 23'	11° 51'	2° 5'	7° 20'	4° 40'	8° 55'	10° 2'	8° 44'	2° 16'	1° 7'	8° 48'	22° 11'	T 3
F 4	12 48 49	14° 6'38"	27° 52'	16° 28'	13° 4'	1° 58'	7° 24'	4° 43'	8° 52'	10° 1'	8° 45'	2° 17'	1° 4'	8° 54'	22° 13'	F 4
S 5	12 52 46	15° 5'50"	12° 9'	17° 35'	14° 17'	1° 52'	7° 28'	4° 47'	8° 50'	10° 0'	8° 46'	2° 18'	1° 1'	9° 1'	22° 16'	S 5
S 6	12 56 42	16° 5'00"	26° 31'	18° 44'	15° 30'	1° 47'	7° 31'	4° 51'	8° 47'	10° 0'	8° 46'	2° 19'	0° 58'	9° 8'	22° 19'	S 6
M 7	13 0 39	17° 4'08"	10° 56'	19° 56'	16° 43'	1° 43'	7° 35'	4° 55'	8° 45'	9° 59'	8° 47'	2° 19'	0° 55'	9° 14'	22° 22'	M 7
T 8	13 4 35	18° 3'14"	25° 21'	21° 10'	17° 56'	1° 39'	7° 38'	4° 58'	8° 42'	9° 58'	8° 48'	2° 17'	0° 52'	9° 21'	22° 25'	T 8
W 9	13 8 32	19° 2'18"	9° 39'	22° 26'	19° 8'	1° 36'	7° 41'	5° 2'	8° 39'	9° 57'	8° 49'	2° 13'	0° 48'	9° 28'	22° 28'	W 9
T 10	13 12 29	20° 1'21"	23° 46'	23° 44'	20° 21'	1° 34'	7° 44'	5° 5'	8° 37'	9° 56'	8° 50'	2° 6'	0° 45'	9° 34'	22° 31'	T 10
F 11	13 16 25	21° 0'21"	7° 37'	25° 4'	21° 34'	1° 32'	7° 46'	5° 9'	8° 34'	9° 55'	8° 51'	1° 58'	0° 42'	9° 41'	22° 34'	F 11
S 12	13 20 22	21° 59'20"	21° 7'	26° 25'	22° 46'	1° 30'	7° 49'	5° 12'	8° 32'	9° 54'	8° 52'	1° 50'	0° 39'	9° 48'	22° 38'	S 12
S 13	13 24 18	22° 58'16"	4° 16'	27° 49'	23° 59'	1° 32'	7° 51'	5° 15'	8° 29'	9° 53'	8° 53'	1° 41'	0° 36'	9° 54'	22° 41'	S 13
M14	13 28 15	23° 57'10"	17° 3'	29° 14'	25° 11'	1° 32'	7° 53'	5° 18'	8° 27'	9° 52'	8° 54'	1° 34'	0° 32'	10° 1'	22° 44'	M14
T 15	13 32 11	24° 56'02"	29° 30'	0° 41'	26° 23'	1° 34'	7° 55'	5° 21'	8° 24'	9° 51'	8° 55'	1° 29'	0° 29'	10° 7'	22° 48'	T 15
W16	13 36 8	25° 54'51"	11° 40'	2° 10'	27° 36'	1° 36'	7° 57'	5° 24'	8° 22'	9° 50'	8° 56'	1° 26'	0° 26'	10° 14'	22° 51'	W16
T 17	13 40 4	26° 53'39"	23° 38'	3° 40'	28° 48'	1° 39'	7° 58'	5° 27'	8° 20'	9° 49'	8° 57'	1° 24'	0° 23'	10° 21'	22° 55'	T 17
F 18	13 44 1	27° 52'24"	5° 12'	5° 13'	29° 59'	1° 43'	8° 0'	5° 29'	8° 17'	9° 48'	8° 58'	1° 25'	0° 20'	10° 27'	22° 59'	F 18
S 19	13 47 58	28° 51'07"	17° 17'	6° 46'	1° 12'	1° 47'	8° 1'	5° 32'	8° 15'	9° 47'	8° 59'	1° 25'	0° 17'	10° 34'	23° 2'	S 19
S 20	13 51 54	29° 49'47"	29° 9'	8° 22'	2° 24'	1° 52'	8° 2'	5° 35'	8° 12'	9° 46'	9° 0'	1° 26'	0° 13'	10° 41'	23° 6'	S 20
M21	13 55 51	0° 48'26"	11° 9'	9° 59'	3° 36'	1° 58'	8° 3'	5° 37'	8° 10'	9° 45'	9° 1'	1° 26'	0° 10'	10° 47'	23° 10'	M21
T 22	13 59 47	1° 47'02"	23° 21'	11° 38'	4° 48'	2° 4'	8° 4'	5° 39'	8° 8'	9° 44'	9° 2'	1° 23'	0° 7'	10° 54'	23° 14'	T 22
W23	14 3 44	2° 45'36"	5° 49'	13° 18'	6° 0'	2° 11'	8° 4'	5° 42'	8° 5'	9° 43'	9° 4'	1° 18'	0° 4'	11° 1'	23° 17'	W23
T 24	14 7 40	3° 44'08"	18° 36'	15° 0'	7° 11'	2° 19'	8° 4'	5° 44'	8° 3'	9° 41'	9° 5'	1° 11'	0° 1'	11° 7'	23° 21'	T 24
F 25	14 11 37	4° 42'38"	11° 40'	16° 44'	8° 23'	2° 27'	8° 4'	5° 46'	8° 1'	9° 40'	9° 6'	1° 2'	29° 58'	11° 14'	23° 25'	F 25
S 26	14 15 33	5° 41'07"	15° 3'	18° 30'	9° 34'	2° 36'	8° 4'	5° 48'	7° 59'	9° 39'	9° 7'	0° 51'	29° 54'	11° 21'	23° 29'	S 26
S 27	14 19 30	6° 39'33"	28° 41'	20° 17'	10° 46'	2° 45'	8° 4'	5° 50'	7° 56'	9° 38'	9° 8'	0° 41'	29° 51'	11° 27'	23° 34'	S 27
M28	14 23 27	7° 37'58"	12° 31'	22° 6'	11° 57'	2° 55'	8° 3'	5° 52'	7° 54'	9° 36'	9° 9'	0° 31'	29° 48'	11° 34'	23° 38'	M28
T 29	14 27 23	8° 36'21"	26° 30'	23° 56'	13° 9'	3° 6'	8° 3'	5° 53'	7° 52'	9° 35'	9° 11'	0° 23'	29° 45'	11° 41'	23° 42'	T 29
W30	14 31 20	9° 34'43"	10° 35'	25° 48'	14° 20'	3° 17'	8° 2'	5° 55'	7° 50'	9° 34'	9° 12'	0° 17'	29° 42'	11° 47'	23° 46'	W30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	4n24	27s41	5s 2	7s54	1s29	14n42	0n 5	13n46	3n21	22s52	19s18	0s11	2s53	0n45	20s20	1n37	T 1
W 2	4 48	28 1	4 36	7 39	1 37	15 7	0 7	13 46	3 19	22 52	0 22	19 17	0 11	2 52	0 45	20 20	W 2
T 3	5 11	26 35	3 53	7 22	1 44	15 33	0 10	13 47	3 16	22 52	0 21	19 16	0 11	2 51	0 45	20 20	T 3
F 4	5 34	23 27	2 56	7 3	1 51	15 58	0 13	13 47	3 14	22 52	0 21	19 15	0 11	2 50	0 45	20 20	F 4
S 5	5 57	18 52	1 47	6 43	1 58	16 23	0 16	13 47	3 11	22 51	0 21	19 15	0 12	2 49	0 45	20 20	S 5
S 6	6 19	13 10	0 31	6 21	2 4	16 47	0 19	13 46	3 9	22 51	0 21	19 14	0 12	2 48	0 45	20 20	S 6
M 7	6 42	6 44	0n47	5 58	2 9	17 11	0 22	13 45	3 6	22 51	0 21	19 13	0 12	2 47	0 45	20 20	M 7
T 8	7 5	0n 1	2 1	5 34	2 14	17 34	0 25	13 44	3 4	22 51	0 21	19 12	0 12	2 46	0 45	20 19	T 8
W 9	7 27	6 42	3 8	5 8	2 19	17 57	0 28	13 43	3 1	22 51	0 21	19 11	0 12	2 45	0 45	20 19	W 9
T 10	7 49	12 58	4 2	4 40	2 23	18 20	0 31	13 41	2 58	22 51	0 21	19 11	0 12	2 44	0 45	20 19	T 10
F 11	8 12	18 27	4 40	4 42	2 26	18 42	0 34	13 40	2 56	22 51	0 21	19 10	0 12	2 43	0 45	20 19	F 11
S 12	8 34	22 52	5 2	3 12	2 29	19 3	0 37	13 37	2 53	22 51	0 21	19 9	0 12	2 42	0 45	20 19	S 12
S 13	8 56	26 0	5 7	3 11	2 31	19 24	0 40	13 35	2 51	22 50	0 21	19 9	0 12	2 41	0 45	20 19	S 13
M14	9 17	27 42	4 56	2 39	2 33	19 45	0 43	13 32	2 48	22 50	0 21	19 8	0 12	2 40	0 45	20 18	M14
T 15	9 39	27 57	4 31	2 5	2 35	20 5	0 46	13 30	2 46	22 50	0 21	19 7	0 12	2 39	0 45	20 18	T 15
W16	10 0	26 49	3 55	1 31	2 35	20 25	0 49	13 26	2 43	22 50	0 21	19 7	0 13	2 38	0 45	20 18	W16
T 17	10 22	24 27	3 9	0 55	2 36	20 44	0 52	13 23	2 41	22 50	0 21	19 6	0 13	2 37	0 45	20 18	T 17
F 18	10 43	21 4	2 15	0 19	2 35	21 2	0 55	13 19	2 38	22 50	0 21	19 6	0 13	2 36	0 45	20 18	F 18
S 19	11 4	16 50	1 15	0n19	2 35	21 20	0 58	13 16	2 36	22 50	0 21	19 5	0 13	2 35	0 45	20 17	S 19
S 20	11 24	11 57	0 12	0 58	2 33	21 37	1 1	13 12	2 34	22 50	0 21	19 4	0 13	2 34	0 44	20 17	S 20
M21	11 45	6 35	0s52	1 38	2 32	21 54	1 4	13 7	2 31	22 50	0 21	19 4	0 13	2 33	0 44	20 17	M21
T 22	12 5	0 53	1 55	2 18	2 29	22 10	1 7	13 3	2 29	22 50	0 21	19 3	0 13	2 32	0 44	20 17	T 22
W23	12 25	4s57	2 53	3 0	2 26	22 26	1 9	12 58	2 26	22 50	0 21	19 3	0 13	2 32	0 44	20 17	W23
T 24	12 45	10 44	3 44	3 43	2 23	22 41	1 12	12 53	2 24	22 50	0 20	19 3	0 13	2 31	0 44	20 16	T 24
F 25	13 5	16 11	4 25	4 26	2 19	22 55	1 15	12 48	2 22	22 50	0 20	19 2	0 13	2 30	0 44	20 16	F 25
S 26	13 24	20 59	4 52	5 10	2 15	23 9	1 18	12 43	2 20	22 50	0 20	19 2	0 14	2 29	0 44	20 16	S 26
S 27	13 44	24 46	5 3	5 55	2 10	23 22	1 21	12 37	2 17	22 50	0 20	19 1	0 14	2 28	0 44	20 16	S 27
M28	14 3	27 11	4 56	6 40	2 4	23 35	1 23	12 31	2 15	22 51	0 20	19 1	0 14	2 27	0 44	20 16	M28
T 29	14 22	27 55	4 32	7 27	1 59	23 47	1 26	12 25	2 13	22 51	0 20	19 1	0 14	2 27	0 44	20 15	T 29
W30	14n40	26s51	3s52	8n13	1s52	23n58	1n28	12n19	2n11	22s51	0n20	19s 0	0s14	2s26	0n44	20s15	W30

Julian Day Number = 2502038.5, Delta T = 113.95 sec

Ecliptic obliquity = 23°25'25", Nutation = 0°00'08", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 26°40'19", Lahiri = 25°47'20"

ASTRODIENST EPHEMERIS for the year 2138

geocentric

MAY 2138

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 35 16	10♂33'03	24♂42	27♀42	15♂31	3♂29	8♂1	5♂56	7♂48	9♂32	9♂13	0♂14	29♂38	11♂54	23♂50	T 1
F 2	14 39 13	11°31'22	8♂49	29°38	16°42	3°41	8♂0	5°58	7♂46	9♂31	9°14	0°D13	29°35	12°1	23°55	F 2
S 3	14 43 9	12°29'39	22°56	1♂35	17°53	3°54	7°58	5°59	7°44	9°30	9°15	0°R13	29°32	12°7	23°59	S 3
S 4	14 47 6	13°27'54	7♂2	3°34	19°4	4°7	7°57	6°0	7°42	9°28	9°17	0♂13	29°29	12°14	24°4	S 4
M 5	14 51 2	14°26'08	21°5	5°35	20°15	4°21	7°55	6°1	7°40	9°27	9°18	0°12	29°26	12°21	24°8	M 5
T 6	14 54 59	15°24'21	5♀4	7°37	21°26	4°35	7°53	6°2	7°38	9°25	9°19	0°8	29°23	12°27	24°13	T 6
W 7	14 58 56	16°22'32	18°56	9°41	22°37	4°50	7°51	6°3	7°36	9°24	9°20	0°1	29°19	12°34	24°17	W 7
T 8	15 2 52	17°20'41	2♂39	11°46	23°47	5°5	7°48	6°4	7°35	9°22	9°22	29♂52	29°16	12°40	24°22	T 8
F 9	15 6 49	18°18'49	16°9	13°52	24°58	5°21	7°46	6°5	7°33	9°21	9°23	29°41	29°13	12°47	24°26	F 9
S 10	15 10 45	19°16'56	29°24	16°0	26°8	5°37	7°43	6°6	7°31	9°19	9°24	29°28	29°10	12°54	24°31	S 10
S 11	15 14 42	20°15'00	12♂22	18°9	27°19	5°54	7°40	6°6	7°29	9°18	9°26	29°16	29°7	13°0	24°36	S 11
M12	15 18 38	21°13'03	25°2	20°18	28°29	6°11	7°37	6°7	7°28	9°16	9°27	29°5	29°4	13°7	24°40	M12
T 13	15 22 35	22°11'05	7♂25	22°29	29°39	6°28	7°34	6°7	7°26	9°15	9°28	28°56	29°0	13°14	24°45	T 13
W14	15 26 31	23°9'04	19°33	24°39	0♂49	6°46	7°30	6°7	7°24	9°13	9°30	28°50	28°57	13°20	24°50	W14
T 15	15 30 28	24°7'02	1♂30	26°50	1°59	7°5	7°27	6°7	7°23	9°12	9°31	28°46	28°54	13°27	24°55	T 15
F 16	15 34 25	25°4'57	13°20	29°1	3°9	7°24	7°23	6°R7	7°21	9°10	9°32	28°44	28°51	13°34	25°0	F 16
S 17	15 38 21	26°2'52	25°8	1♂11	4°19	7°43	7°19	6°7	7°20	9°9	9°33	28°44	28°48	13°40	25°5	S 17
S 18	15 42 18	27°0'44	7♂0	3°21	5°29	8°2	7°15	6°7	7°19	9°7	9°35	28°44	28°44	13°47	25°10	S 18
M19	15 46 14	27°58'34	19°2	5°30	6°38	8°22	7°11	6°7	7°17	9°5	9°36	28°43	28°41	13°54	25°15	M19
T 20	15 50 11	28°56'23	1♂17	7°37	7°48	8°43	7°6	6°7	7°16	9°4	9°38	28°40	28°38	14°0	25°20	T 20
W21	15 54 7	29°54'10	13°51	9°43	8°57	9°3	7°2	6°6	7°15	9°2	9°39	28°35	28°35	14°7	25°25	W21
T 22	15 58 4	0♂51'56	26°47	11°48	10°6	9°25	6°57	6°6	7°13	9°1	9°40	28°27	28°32	14°14	25°30	T 22
F 23	16 2 0	1°49'40	10♂7	13°50	11°15	9°46	6°52	6°5	7°12	8°59	9°42	28°17	28°29	14°20	25°35	F 23
S 24	16 5 57	2°47'22	23°48	15°51	12°24	10°8	6°47	6°4	7°11	8°57	9°43	28°6	28°25	14°27	25°40	S 24
S 25	16 9 54	3°45'04	7♂49	17°48	13°33	10°30	6°42	6°3	7°10	8°56	9°44	27°54	28°22	14°34	25°45	S 25
M26	16 13 50	4°42'44	22°6	19°44	14°42	10°52	6°36	6°2	7°9	8°54	9°46	27°43	28°19	14°40	25°50	M26
T 27	16 17 47	5°40'23	6♂31	21°37	15°51	11°15	6°31	6°1	7°8	8°53	9°47	27°34	28°16	14°47	25°55	T 27
W28	16 21 43	6°38'01	20°59	23°27	16°59	11°38	6°25	6°0	7°7	8°51	9°48	27°28	28°13	14°53	26°0	W28
T 29	16 25 40	7°35'38	5♂24	25°15	18°7	12°1	6°20	5°59	7°6	8°49	9°50	27°24	28°10	15°0	26°6	T 29
F 30	16 29 36	8°33'13	19°43	26°59	19°16	12°25	6°14	5°58	7°6	8°48	9°51	27°23	28°6	15°7	26°11	F 30
S 31	16 33 33	9♂30'48	3♂54	28♂41	20♂24	12♂49	6♂8	5♂56	7♂5	8♂46	9♂52	27♂23	28♂3	15♂13	26♂16	S 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14n59	24s 4	2s57	9n 1	1s45	24n 9	1n31	12n13	2n 8	22s51	0n20	19s 0	0s14	2s25	0n44	20s15	1n38	10n25	11s32	11s23	11s35	18n43	17n48	5s29					
F 2	15 17	19 50	1 51	9 48	1 38	24 19	1 34	12 7	2 6	22 51	0 20	19 0	0 14	2 24	0 44	20 15	1 38	10 25	11 32	11 23	11 37	18 41	17 49	5 28					
S 3	15 35	14 28	0 39	10 36	1 30	24 28	1 36	12 0	2 4	22 51	0 20	19 0	0 14	2 23	0 44	20 14	1 38	10 26	11 31	11 23	11 38	18 38	17 49	5 28					
S 4	15 52	8 22	0n36	11 25	1 22	24 37	1 38	11 53	2 2	22 51	0 20	18 59	0 14	2 23	0 44	20 14	1 38	10 26	11 31	11 23	11 39	18 35	17 50	5 28					
M 5	16 10	1 52	1 48	12 13	1 14	24 44	1 41	11 46	2 0	22 51	0 20	18 59	0 15	2 22	0 44	20 14	1 38	10 26	11 31	11 24	11 40	18 32	17 50	5 28					
T 6	16 27	4n40	2 53	13 2	1 5	24 52	1 43	11 39	1 58	22 52	0 20	18 59	0 15	2 21	0 44	20 14	1 38	10 27	11 31	11 25	11 41	18 30	17 50	5 28					
W 7	16 43	10 55	3 48	13 50	0 55	24 58	1 45	11 32	1 56	22 52	0 20	18 59	0 15	2 20	0 44	20 14	1 38	10 27	11 31	11 27	11 42	18 27	17 51	5 28					
T 8	17 0	16 34	4 28	14 38	0 45	25 4	1 48	11 24	1 54	22 52	0 20	18 59	0 15	2 20	0 44	20 13	1 38	10 27	11 31	11 31	11 43	18 24	17 51	5 27					
F 9	17 16	21 19	4 53	15 26	0 36	25 9	1 50	11 17	1 52	22 52	0 20	18 59	0 15	2 19	0 44	20 13	1 38	10 27	11 31	11 35	11 44	18 22	17 51	5 27					
S 10	17 32	24 54	5 1	16 13	0 25	25 14	1 52	11 9	1 50	22 53	0 19	18 59	0 15	2 18	0 44	20 13	1 38	10 28	11 30	11 39	11 45	18 19	17 52	5 27					
S 11	17 48	27 6	4 53	16 59	0 15	25 18	1 54	11 1	1 48	22 53	0 19	18 59	0 15	2 18	0 44	20 13	1 38	10 28	11 30	11 43	11 47	18 16	17 52	5 27					
M12	18 3	27 51	4 31	17 44	0 5	25 21	1 56	10 53	1 46	22 53	0 19	18 59	0 15	2 17	0 44	20 12	1 38	10 28	11 30	11 47	11 48	18 14	17 53	5 27					
T 13	18 18	27 9	3 56	18 29	0n 6	25 23	1 58	10 44	1 44	22 53	0 19	18 59	0 15	2 17	0 44	20 12	1 38	10 29	11 30	11 50	11 49	18 11	17 53	5 27					
W14	18 33	25 10	3 12	19 11	0 17	25 25	2 0	10 36	1 42	22 54	0 19	18 59	0 15	2 16	0 44	20 12	1 38	10 29	11 30	11 52	11 50	18 8	17 53	5 26					
T 15	18 47	22 4	2 19	19 53	0 27	25 26	2 1	10 27	1 40	22 54	0 19	18 59	0 16	2 15	0 44	20 12	1 38	10 29	11 30	11 54	11 51	18 5	17 53	5 26					
F 16	19 1	18 6	1 21	20 32	0 37	25 26	2 3	10 19	1 38	22 54	0 19	18 59	0 16	2 15	0 44	20 11	1 38	10 29	11 30	11 54	11 52	18 3	17 54	5 26					
S 17	19 15	13 26	0 19	21 9	0 47	25 26	2 5	10 10	1 36	22 54	0 19	18 59	0 16	2 14	0 44	20 11	1 38	10 30	11 30	11 54	11 53	18 0	17 54	5 26					
S 18	19 29	8 15	0s44	21 45	0 57	25 25	2 6	10 1	1 35	22 55	0 19	18 59	0 16	2 14	0 44	20 11	1 38	10 30	11 30	11 54	11 54	17 57	17 54	5 26					
M19	19 42	2 43	1 45	22 18	1 7	25 23	2 8	9 52	1 33	22 55	0 19	18 59	0 16	2 13	0 44	20 11	1 38	10 30	11 30	11 55	11 55	17 54	17 55	5 26					
T 20	19 55	3s 0	2 43	22 49	1 16	25 20	2 9	9 42	1 31	22 55	0 19	19 0	0 16	2 13	0 44	20 10	1 38	10 31	11 29	11 56	11 56	17 52	17 55	5 26					
W21	20 7	8 45	3 35	23 17	1 24	25 17	2 10	9 33	1 29	22 56	0 19	19 0	0 16	2 12	0 44	20 10	1 38	10 31	11 29	11 58	11 58	17 49	17 55	5 26					
T 22	20 19	14 18	4 17	23 42	1 32	25 14	2 12	9 23	1 27	22 56	0 18	19 0	0 16	2 12	0 44	20 10	1 38	10 31	11 29	12 0	11 59	17 46	17 56	5 25					
F 23	20 31	19 21	4 46	24 5	1 39	25 9	2 13	9 14	1 26	22 56	0 18	19 0	0 16	2 12	0 44	20 10	1 38	10 31	11 29	12 4	12 0	17 43	17 56	5 25					
S 24	20 42	23 33	5 0	24 26	1 46	25 4	2 14	9 4	1 24	22 57	0 18	19 1	0 17	2 11	0 43	20 9	1 38	10 32	11 29	12 8	12 1	17 41	17 56	5 25					
S 25	20 53	26 28	4 56	24 43	1 52	24 58	2 15	8 54	1 22	22 57	0 18	19 1	0 17	2 11	0 43	20 9	1 38	10 32	11 29	12 12	12 2	17 38	17 56	5 25					
M26	21 4	27 45	4 34	24 58	1 57	24 52	2 16	8 44	1 21	22 57	0 18	19 1	0 17	2 10	0 43	20 9	1 38	10 32	11 29	12 16	12 3	17 35	17 56	5 25					
T 27	21 14	27 10	3 55	25 11	2 1	24 44	2 16	8 34	1 19	22 58	0 18	19 2	0 17	2 10	0 43	20 9	1 38	10 32	11 29	12 19	12 4	17 32	17 57	5 25					
W28	21 24	24 45	3 0	25 21	2 5	24 37	2 17	8 23	1 17	22 58	0 18	19 2	0 17	2 10	0 43	20 8	1 38	10 33	11 29	12 21	12 5	17 30	17 57	5 25					
T 29	21 34	20 44	1 54	25 28	2 8	24 28	2 18	8 13	1 16	22 59	0 18	19 2	0 17	2 9	0 43	20 8	1 38	10 33	11 29	12 22	12 6	17 27	17 57	5 25					
F 30	21 43	15 32	0 40	25 33	2 10	24 19	2 18	8 2	1 14	22 59	0 18	19 3	0 17	2 9	0 43	20 8	1 38	10 33	11 29	12 22	12 7	17 24	17 57	5 25					
S 31	21n52	9s32	0n35	25n36	2n11	24n 9	2n18	7n52	1n13	22s59	0n18	19s 3	0s17	2s 9	0n43	20s 8	1n38	10n33	11s29	12s22	12s 9	17n21	17n58	5s25					

ASTRODIENST EPHEMERIS for the year 2138

geocentric

JUNE 2138

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 29	10 ^{II} 28'22	17 ^{II} 55	0 ^{II} 20	21 ^{II} 32	13 ^{II} 13	6°R 2	5°R55	7°R 4	8°R45	9 ^{II} 54	27°R23	28 ^{II} 0	15 ^{II} 20	26 ^{II} 21	S 1
M 2	16 41 26	11°25'55	1 ^{II} 45	1°56	22°40	13°38	5 ^{II} 55	5 ^{II} 53	7 ^{II} 3	8 ^{II} 43	9°55	27 ^{II} 21	27°57	15°27	26°27	M 2
T 3	16 45 23	12°23'28	15°26	3°29	23°47	14° 3	5°49	5°52	7° 3	8°41	9°57	27°18	27°54	15°33	26°32	T 3
W 4	16 49 19	13°21'00	28°56	4°59	24°55	14°28	5°43	5°50	7° 2	8°40	9°58	27°12	27°50	15°40	26°37	W 4
T 5	16 53 16	14°18'30	12 ^{II} 15	6°25	26° 2	14°53	5°36	5°48	7° 2	8°38	9°59	27° 3	27°47	15°47	26°43	T 5
F 6	16 57 12	15°16'00	25°22	7°49	27°10	15°19	5°29	5°46	7° 1	8°36	10° 1	26°52	27°44	15°53	26°48	F 6
S 7	17 1 9	16°13'30	8 ^{II} 16	9°10	28°17	15°45	5°23	5°44	7° 1	8°35	10° 2	26°40	27°41	16° 0	26°54	S 7
S 8	17 5 5	17°10'58	20°57	10°27	29°24	16°11	5°16	5°42	7° 0	8°33	10° 3	26°28	27°38	16° 7	26°59	S 8
M 9	17 9 2	18° 8'25	3 ^{II} 24	11°41	0 ^{II} 30	16°37	5° 9	5°40	7° 0	8°32	10° 5	26°18	27°35	16°13	27° 4	M 9
T 10	17 12 58	19° 5'52	15°38	12°52	1°37	17° 4	5° 2	5°38	7° 0	8°30	10° 6	26° 9	27°31	16°20	27°10	T 10
W11	17 16 55	20° 3'17	27°40	14° 0	2°44	17°31	4°55	5°35	7° 0	8°28	10° 7	26° 3	27°28	16°27	27°15	W11
T 12	17 20 52	21° 0'42	9 ^{II} 23	15° 4	3°50	17°58	4°47	5°33	6°59	8°27	10° 9	25°59	27°25	16°33	27°21	T 12
F 13	17 24 48	21°58'05	21°22	16° 5	4°56	18°26	4°40	5°30	6°59	8°25	10°10	25°D58	27°22	16°40	27°26	F 13
S 14	17 28 45	22°55'27	3 ^{II} 9	17° 2	6° 2	18°53	4°33	5°28	6°D59	8°24	10°11	25°58	27°19	16°47	27°31	S 14
S 15	17 32 41	23°52'49	15° 0	17°56	7° 8	19°21	4°26	5°25	6°59	8°22	10°13	25°59	27°16	16°53	27°37	S 15
M16	17 36 38	24°50'09	27° 1	18°46	8°13	19°49	4°18	5°22	6°59	8°21	10°14	25°R59	27°12	17° 0	27°42	M16
T 17	17 40 34	25°47'28	9 ^{II} 16	19°32	9°19	20°18	4°11	5°19	6°59	8°19	10°15	25°58	27° 9	17° 6	27°48	T 17
W18	17 44 31	26°44'47	21°51	20°14	10°24	20°46	4° 3	5°17	7° 0	8°18	10°17	25°55	27° 6	17°13	27°53	W18
T 19	17 48 27	27°42'05	4 ^{II} 50	20°52	11°29	21°15	3°56	5°14	7° 0	8°16	10°18	25°50	27° 3	17°20	27°59	T 19
F 20	17 52 24	28°39'21	18°15	21°26	12°33	21°44	3°48	5°11	7° 0	8°15	10°19	25°43	27° 0	17°26	28° 4	F 20
S 21	17 56 21	29°36'38	2 ^{II} 6	21°56	13°38	22°13	3°40	5° 7	7° 0	8°13	10°21	25°35	26°56	17°33	28°10	S 21
S 22	18 0 17	0 ^{II} 33'53	16°21	22°22	14°42	22°43	3°33	5° 4	7° 1	8°12	10°22	25°26	26°53	17°40	28°15	S 22
M23	18 4 14	1°31'08	0 ^{II} 36	22°43	15°46	23°12	3°25	5° 1	7° 1	8°10	10°23	25°18	26°50	17°46	28°21	M23
T 24	18 8 10	2°28'23	15°43	23° 0	16°50	23°42	3°17	4°58	7° 2	8° 9	10°25	25°12	26°47	17°53	28°26	T 24
W25	18 12 7	3°25'37	0 ^{II} 35	23°12	17°53	24°12	3°10	4°54	7° 2	8° 7	10°26	25° 7	26°44	18° 0	28°32	W25
T 26	18 16 3	4°22'51	15°23	23°19	18°57	24°42	3° 2	4°51	7° 3	8° 6	10°27	25° 5	26°41	18° 6	28°37	T 26
F 27	18 20 0	5°20'04	0 ^{II} 1	23°R22	20° 0	25°12	2°54	4°47	7° 3	8° 4	10°28	25°D 5	26°37	18°13	28°43	F 27
S 28	18 23 57	6°17'18	14°25	23°21	21° 2	25°43	2°47	4°44	7° 4	8° 3	10°30	25° 6	26°34	18°20	28°48	S 28
S 29	18 27 53	7°14'31	28°32	23°15	22° 5	26°13	2°39	4°40	7° 5	8° 2	10°31	25° 7	26°31	18°26	28°53	S 29
M30	18 31 50	8°21'45	12°V22	23 ^{II} 4	23 ^{II} 7	26°II44	2°31	4 ^{II} 36	7 ^{II} 6	8 ^{II} 0	10°II32	25°R 7	26 ^{II} 28	18 ^{II} 33	28°II59	M30

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		♈	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22n 0	3s 8	1n47	25n37	2n12	23n59	2n19	7n41	1n11	23s 0	0n17	19s 4	0s17	2s 9	0n43	20s 7	1n38	10n33	11s29	12s22	12s10	17n18	17n58	5s25	
M 2	22 8	3n19	2 51	25 36	2 12	23 48	2 19	7 30	1 10	23 0	0 17	19 4	0 18	2 8	0 43	20 7	1 38	10 34	11 29	12 23	12 11	17 16	17 58	5 25	
T 3	22 16	9 32	3 46	25 33	2 10	23 37	2 19	7 19	1 8	23 0	0 17	19 5	0 18	2 8	0 43	20 7	1 38	10 34	11 29	12 24	12 12	17 13	17 58	5 25	
W 4	22 23	15 14	4 26	25 28	2 9	23 25	2 19	7 8	1 6	23 1	0 17	19 5	0 18	2 8	0 43	20 7	1 38	10 34	11 29	12 26	12 13	17 10	17 58	5 25	
T 5	22 30	20 8	4 52	25 22	2 6	23 12	2 19	6 57	1 5	23 1	0 17	19 6	0 18	2 8	0 43	20 6	1 38	10 34	11 29	12 29	12 14	17 7	17 58	5 25	
F 6	22 37	23 58	5 2	25 14	2 2	22 59	2 19	6 46	1 4	23 2	0 17	19 6	0 18	2 8	0 43	20 6	1 38	10 35	11 29	12 33	12 15	17 4	17 58	5 25	
S 7	22 43	26 32	4 56	25 4	1 58	22 45	2 18	6 34	1 2	23 2	0 17	19 7	0 18	2 7	0 43	20 6	1 38	10 35	11 29	12 37	12 16	17 2	17 59	5 25	
S 8	22 48	27 41	4 35	24 53	1 53	22 31	2 18	6 23	1 1	23 2	0 17	19 8	0 18	2 7	0 43	20 6	1 38	10 35	11 29	12 41	12 17	16 59	17 59	5 25	
M 9	22 54	27 24	4 2	24 41	1 47	22 16	2 17	6 11	0 59	23 3	0 17	19 8	0 18	2 7	0 43	20 5	1 38	10 35	11 29	12 45	12 18	16 56	17 59	5 25	
T 10	22 59	25 47	3 17	24 28	1 40	22 0	2 16	5 59	0 58	23 3	0 16	19 9	0 18	2 7	0 43	20 5	1 38	10 35	11 29	12 48	12 19	16 53	17 59	5 25	
W11	23 3	22 59	2 25	24 14	1 33	21 44	2 16	5 48	0 56	23 4	0 16	19 10	0 19	2 7	0 43	20 5	1 38	10 35	11 29	12 50	12 21	16 50	17 59	5 25	
T 12	23 7	19 14	1 26	23 59	1 25	21 28	2 15	5 36	0 55	23 4	0 16	19 10	0 19	2 7	0 43	20 5	1 38	10 36	11 29	12 51	12 22	16 48	17 59	5 25	
F 13	23 11	14 46	0 25	23 43	1 16	21 11	2 14	5 24	0 54	23 4	0 16	19 11	0 19	2 7	0 43	20 5	1 38	10 36	11 29	12 51	12 23	16 45	17 59	5 25	
S 14	23 14	9 45	0s38	23 26	1 6	20 53	2 13	5 12	0 52	23 5	0 16	19 12	0 19	2 7	0 43	20 4	1 38	10 36	11 29	12 51	12 24	16 42	17 59	5 25	
S 15	23 17	4 22	1 40	23 9	0 56	20 36	2 11	4 59	0 51	23 5	0 16	19 13	0 19	2 7	0 43	20 4	1 38	10 36	11 29	12 51	12 25	16 39	17 59	5 25	
M16	23 19	1s14	2 38	22 51	0 45	20 17	2 10	4 47	0 49	23 5	0 16	19 13	0 19	2 7	0 43	20 4	1 38	10 36	11 29	12 51	12 26	16 36	17 59	5 25	
T 17	23 21	6 54	3 30	22 33	0 34	19 58	2 8	4 35	0 48	23 6	0 16	19 14	0 19	2 7	0 42	20 4	1 38	10 36	11 29	12 51	12 27	16 33	17 59	5 25	
W18	23 23	12 26	4 14	22 15	0 21	19 39	2 7	4 22	0 47	23 6	0 16	19 15	0 19	2 7	0 42	20 3	1 38	10 37	11 29	12 52	12 28	16 30	17 59	5 25	
T 19	23 24	17 36	4 46	21 57	0 8	19 20	2 5	4 10	0 46	23 7	0 15	19 16	0 19	2 8	0 42	20 3	1 38	10 37	11 29	12 54	12 29	16 28	17 59	5 25	
F 20	23 25	22 6	5 3	21 38	0s 5	18 59	2 3	3 57	0 44	23 7	0 15	19 17	0 19	2 8	0 42	20 3	1 38	10 37	11 29	12 56	12 30	16 25	17 59	5 25	
S 21	23 25	25 31	5 4	21 19	0 19	18 39	2 1	3 45	0 43	23 7	0 15	19 17	0 20	2 8	0 42	20 3	1 38	10 37	11 29	12 59	12 31	16 22	17 59	5 25	
S 22	23 25	27 28	4 46	21 1	0 34	18 18	1 59	3 32	0 42	23 8	0 15	19 18	0 20	2 8	0 42	20 3	1 38	10 37	11 29	13 2	12 33	16 19	17 59	5 25	
M23	23 25	27 34	4 9	20 43	0 49	17 57	1 56	3 19	0 40	23 8	0 15	19 19	0 20	2 8	0 42	20 2	1 38	10 37	11 29	13 5	12 34	16 16	17 59	5 25	
T 24	23 24	25 44	3 15	20 25	1 4	17 35	1 54	3 6	0 39	23 8	0 15	19 20	0 20	2 9	0 42	20 2	1 38	10 37	11 29	13 7	12 35	16 13	17 59	5 25	
W25	23 23	22 6	2 8	20 7	1 20	17 13	1 51	2 53	0 38	23 9	0 15	19 21	0 20	2 9	0 42	20 2	1 38	10 37	11 29	13 8	12 36	16 10	17 59	5 26	
T 26	23 21	17 3	0 52	19 50	1 36	16 51	1 49	2 40	0 37	23 9	0 14	19 22	0 20	2 9	0 42	20 2	1 38	10 38	11 29	13 9	12 37	16 8	17 59	5 26	
F 27	23 19	11 3	0n27	19 34	1 52	16 29	1 46	2 27	0 36	23 9	0 14	19 23	0 20	2 9	0 42	20 2	1 38	10 38	11 29	13 9	12 38	16 5	17 59	5 26	
S 28	23 16	4 33	1 42	19 18	2 8	16 6	1 43	2 14	0 34	23 9	0 14	19 24	0 20	2 10	0 42	20 1	1 38	10 38	11 29	13 9	12 39	16 2	17 59	5 26	
S 29	23 14	2n 2	2 51	19 3	2 24	15 43	1 40	2 0	0 33	23 10	0 14	19 25	0 20	2 10	0 42	20 1	1 38	10 38	11 29	13 9	12 40	15 59	17 59	5 26	
M30	23n10	8n22	3n47	18n49	2s40	15n19	1n36	1n47	0n32	23s10	0n14	19s26	0s21	2s10	0n42	20s 1	1n38	10n38	11s29	13s 8	12s41	15n56	17n59	5s26	

ASTRODIENST EPHEMERIS for the year 2138

geocentric

JULY 2138

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	18 35 46	9 ⁵⁹ 8'59	25 ⁵⁴ 54	22 ^R 49	24 ^Ω 9	27 [♍] 15	2°R24	4°R33	7 [♎] 7	7°R59	10 [♐] 33	25°R 6	26 [♑] 25	18 ^Ω 40	29 [♒] 4	T 1
W 2	18 39 43	10° 6'12	9 [♊] 11	22 [♋] 30	25°10	27°46	2 [♌] 16	4 [♍] 29	7° 7	7 [♎] 58	10°35	25 [♏] 2	26°22	18°46	29°10	W 2
T 3	18 43 39	11° 3'26	22°12	22° 8	26°12	28°18	2° 9	4°25	7° 8	7°56	10°36	24°57	26°18	18°53	29°15	T 3
F 4	18 47 36	12° 0'40	5 [♐] 0	21°41	27°13	28°49	2° 1	4°21	7° 9	7°55	10°37	24°51	26°15	18°59	29°21	F 4
S 5	18 51 32	12°57'54	17°35	21°12	28°13	29°21	1°54	4°17	7°10	7°54	10°38	24°44	26°12	19° 6	29°26	S 5
S 6	18 55 29	13°55'08	29°58	20°40	29°14	29°53	1°46	4°13	7°12	7°53	10°39	24°36	26° 9	19°13	29°31	S 6
M 7	18 59 26	14°52'22	12 [♊] 11	20° 6	0 [♋] 14	0 [♌] 25	1°39	4° 9	7°13	7°51	10°41	24°30	26° 6	19°19	29°37	M 7
T 8	19 3 22	15°49'36	24°14	19°30	1°13	0°57	1°32	4° 5	7°14	7°50	10°42	24°25	26° 2	19°26	29°42	T 8
W 9	19 7 19	16°46'50	6 [♌] 9	18°53	2°13	1°30	1°25	4° 1	7°15	7°49	10°43	24°21	25°59	19°33	29°47	W 9
T 10	19 11 15	17°44'04	17°58	18°15	3°12	2° 2	1°17	3°57	7°16	7°48	10°44	24°19	25°56	19°39	29°53	T 10
F 11	19 15 12	18°41'18	29°45	17°38	4°10	2°35	1°10	3°53	7°18	7°47	10°45	24°D19	25°53	19°46	29°58	F 11
S 12	19 19 8	19°38'32	11 [♍] 32	17° 1	5° 8	3° 8	1° 3	3°49	7°19	7°46	10°46	24°20	25°50	19°53	0 [♎] 3	S 12
S 13	19 23 5	20°35'45	23°23	16°26	6° 6	3°41	0°57	3°44	7°21	7°44	10°47	24°22	25°47	19°59	0° 9	S 13
M14	19 27 1	21°32'59	5 [♎] 24	15°53	7° 3	4°14	0°50	3°40	7°22	7°43	10°48	24°24	25°43	20° 6	0°14	M14
T 15	19 30 58	22°30'12	17°38	15°23	8° 0	4°47	0°43	3°36	7°24	7°42	10°49	24°R25	25°40	20°13	0°19	T 15
W16	19 34 55	23°27'26	0 [♏] 11	14°55	8°57	5°20	0°37	3°31	7°25	7°41	10°51	24°25	25°37	20°19	0°24	W16
T 17	19 38 51	24°24'39	13° 7	14°32	9°53	5°54	0°30	3°27	7°27	7°40	10°52	24°23	25°34	20°26	0°29	T 17
F 18	19 42 48	25°21'53	26°29	14°13	10°48	6°28	0°24	3°23	7°29	7°39	10°53	24°21	25°31	20°32	0°35	F 18
S 19	19 46 44	26°19'07	10 [♐] 19	13°58	11°43	7° 2	0°17	3°18	7°30	7°38	10°54	24°17	25°28	20°39	0°40	S 19
S 20	19 50 41	27°16'21	24°36	13°48	12°37	7°36	0°11	3°14	7°32	7°38	10°55	24°13	25°24	20°46	0°45	S 20
M21	19 54 37	28°13'35	9 [♑] 16	13°D44	13°31	8°10	0° 5	3°10	7°34	7°37	10°56	24°10	25°21	20°52	0°50	M21
T 22	19 58 34	29°10'49	24°14	13°44	14°24	8°44	29 [♒] 59	3° 5	7°36	7°36	10°57	24° 7	25°18	20°59	0°55	T 22
W23	20 2 30	0 [♒] 8'04	9 [♓] 21	13°51	15°17	9°18	29°54	3° 1	7°38	7°35	10°58	24° 5	25°15	21° 6	1° 0	W23
T 24	20 6 27	1° 5'20	24°27	14° 3	16° 9	9°53	29°48	2°56	7°40	7°34	10°59	24°D 5	25°12	21°12	1° 5	T 24
F 25	20 10 24	2° 2'35	9 [♈] 25	14°21	17° 0	10°27	29°43	2°52	7°42	7°33	10°59	24° 5	25° 8	21°19	1°10	F 25
S 26	20 14 20	2°59'52	24° 7	14°44	17°51	11° 2	29°37	2°47	7°44	7°33	11° 0	24° 6	25° 5	21°26	1°15	S 26
S 27	20 18 17	3°57'10	8 [♉] 27	15°13	18°41	11°37	29°32	2°43	7°46	7°32	11° 1	24° 8	25° 2	21°32	1°20	S 27
M28	20 22 13	4°54'28	22°25	15°49	19°31	12°12	29°27	2°38	7°48	7°31	11° 2	24° 9	24°59	21°39	1°25	M28
T 29	20 26 10	5°51'47	6 [♊] 0	16°30	20°19	12°47	29°22	2°34	7°50	7°30	11° 3	24°R 9	24°56	21°46	1°29	T 29
W30	20 30 6	6°49'08	19°12	17°17	21° 7	13°22	29°17	2°30	7°53	7°30	11° 4	24° 9	24°53	21°52	1°34	W30
T 31	20 34 3	7 ^Ω 46'29	2 [♒] 5	18 [♓] 9	21 [♍] 54	13 [♎] 58	29 [♐] 13	2 [♑] 25	7 [♒] 55	7 [♒] 29	11 [♓] 5	24 [♑] 8	24 [♒] 49	21 ^Ω 59	1 [♓] 39	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	23n 6	14n11	4n30	18n36	2s56	14n55	1n33	1n34	0n31	23s10	0n14	19s27	0s21	2s11	0n42	20s 1	1n38	10n38	11s29	13s 9	12s42	15n53	17n59	5s26
W 2	23 2	19 14	4 57	18 24	3 11	14 31	1 29	1 20	0 30	23 11	0 14	19 28	0 21	2 11	0 42	20 1	1 38	10 38	11 30	13 10	12 43	15 50	17 59	5 26
T 3	22 58	23 16	5 9	18 13	3 26	14 7	1 26	1 7	0 29	23 11	0 13	19 29	0 21	2 12	0 42	20 1	1 38	10 38	11 30	13 12	12 44	15 47	17 59	5 27
F 4	22 53	26 6	5 4	18 3	3 40	13 43	1 22	0 53	0 27	23 11	0 13	19 30	0 21	2 12	0 42	20 0	1 38	10 38	11 30	13 14	12 45	15 44	17 59	5 27
S 5	22 48	27 34	4 45	17 55	3 53	13 18	1 18	0 40	0 26	23 11	0 13	19 31	0 21	2 12	0 42	20 0	1 38	10 38	11 30	13 16	12 47	15 41	17 58	5 27
S 6	22 42	27 38	4 13	17 47	4 6	12 53	1 14	0 26	0 25	23 12	0 13	19 32	0 21	2 13	0 42	20 0	1 38	10 38	11 30	13 19	12 48	15 39	17 58	5 27
M 7	22 36	26 20	3 29	17 41	4 17	12 28	1 9	0 12	0 24	23 12	0 13	19 33	0 21	2 13	0 42	20 0	1 38	10 39	11 30	13 21	12 49	15 36	17 58	5 27
T 8	22 29	23 49	2 36	17 37	4 27	12 3	1 5	0s 2	0 23	23 12	0 13	19 34	0 21	2 14	0 42	20 0	1 38	10 39	11 30	13 23	12 50	15 33	17 58	5 27
W 9	22 22	20 18	1 38	17 33	4 35	11 37	1 0	0 16	0 22	23 12	0 13	19 35	0 21	2 14	0 42	20 0	1 38	10 39	11 30	13 24	12 51	15 30	17 58	5 28
T 10	22 15	15 59	0 35	17 31	4 42	11 11	0 56	0 30	0 21	23 13	0 12	19 36	0 22	2 15	0 41	19 59	1 38	10 39	11 30	13 24	12 52	15 27	17 58	5 28
F 11	22 7	11 5	0s30	17 31	4 48	10 46	0 51	0 43	0 20	23 13	0 12	19 37	0 22	2 16	0 41	19 59	1 37	10 39	11 30	13 24	12 53	15 24	17 57	5 28
S 12	21 59	5 48	1 33	17 31	4 51	10 20	0 46	0 57	0 19	23 13	0 12	19 38	0 22	2 16	0 41	19 59	1 37	10 39	11 30	13 24	12 54	15 21	17 57	5 28
S 13	21 51	0 17	2 32	17 33	4 54	9 54	0 40	1 12	0 18	23 13	0 12	19 39	0 22	2 17	0 41	19 59	1 37	10 39	11 31	13 23	12 55	15 18	17 57	5 28
M14	21 42	5s18	3 26	17 36	4 54	9 28	0 35	1 26	0 17	23 13	0 12	19 41	0 22	2 17	0 41	19 59	1 37	10 39	11 31	13 23	12 56	15 15	17 57	5 29
T 15	21 33	10 47	4 12	17 41	4 53	9 1	0 30	1 40	0 15	23 14	0 12	19 42	0 22	2 18	0 41	19 59	1 37	10 39	11 31	13 23	12 57	15 12	17 56	5 29
W16	21 23	16 0	4 46	17 46	4 51	8 35	0 24	1 54	0 14	23 14	0 12	19 43	0 22	2 19	0 41	19 59	1 37	10 39	11 31	13 23	12 58	15 9	17 56	5 29
T 17	21 13	20 39	5 8	17 53	4 47	8 9	0 18	2 8	0 13	23 14	0 11	19 44	0 22	2 19	0 41	19 59	1 37	10 39	11 31	13 23	12 59	15 6	17 56	5 29
F 18	21 3	24 26	5 13	18 1	4 41	7 42	0 12	2 22	0 12	23 14	0 11	19 45	0 22	2 20	0 41	19 58	1 37	10 39	11 31	13 24	13 1	15 3	17 56	5 30
S 19	20 52	26 57	5 2	18 9	4 34	7 16	0 6	2 37	0 11	23 14	0 11	19 46	0 22	2 21	0 41	19 58	1 37	10 39	11 31	13 25	13 2	15 0	17 55	5 30
S 20	20 41	27 50	4 31	18 18	4 26	6 49	0s 0	2 51	0 10	23 14	0 11	19 47	0 22	2 22	0 41	19 58	1 37	10 39	11 32	13 26	13 3	14 58	17 55	5 30
M21	20 30	26 47	3 42	18 28	4 16	6 23	0 7	3 5	0 9	23 15	0 11	19 48	0 23	2 22	0 41	19 58	1 37	10 39	11 32	13 27	13 4	14 55	17 55	5 30
T 22	20 18	23 50	2 37	18 38	4 6	5 56	0 13	3 20	0 8	23 15	0 11	19 49	0 23	2 23	0 41	19 58	1 37	10 39	11 32	13 28	13 5	14 52	17 55	5 31
W23	20 6	19 12	1 20	18 49	3 54	5 29	0 20	3 34	0 7	23 15	0 11	19 50	0 23	2 24	0 41	19 58	1 37	10 39	11 32	13 29	13 6	14 49	17 54	5 31
T 24	19 54	13 20	0n 2	19 0	3 42	5 3	0 27	3 49	0 7	23 15	0 10	19 52	0 23	2 25	0 41	19 58	1 37	10 39	11 32	13 29	13 7	14 46	17 54	5 31
F 25	19 42	6 44	1 24	19 11	3 29	4 37	0 34	4 3	0 6	23 15	0 10	19 53	0 23	2 26	0 41	19 58	1 37	10 39	11 32	13 29	13 8	14 43	17 54	5 31
S 26	19 29	0n 5	2 38	19 22	3 16	4 10	0 41	4 18	0 5	23 15	0 10	19 54	0 23	2 26	0 41	19 58	1 37	10 39	11 32	13 29	13 9	14 40	17 53	5 32
S 27	19 15	6 44	3 41	19 33	3 2	3 44	0 48	4 32	0 4	23 15	0 10	19 55	0 23	2 27	0 41	19 58	1 37	10 39	11 33	13 28	13 10	14 37	17 53	5 32
M28	19 2	12 53	4 29	19 43	2 47	3 18	0 56	4 47	0 3	23 16	0 10	19 56	0 23	2 28	0 41	19 58	1 37	10 39	11 33	13 28	13 11	14 34	17 53	5 32
T 29	18 48	18 14	5 0	19 53	2 32	2 51	1 4	5 1	0 2	23 16	0 10	19 57	0 23	2 29	0 41	19 58	1 37	10 39	11 33	13 28	13 12	14 31	17 52	5 33
W30	18 33	22 33	5 15	20 2	2 12	2 25	1 12	5 16	0 1	23 16	0 9	19 58	0 23	2 30	0 41	19 57	1 37	10 38	11 33	13 28	13 13	14 28	17 52	5 33
T 31	18n19	25n40	5n13	20n11	2s 2	1n59	1s20	5s30	0s 0	23s16	0n 9	19s59	0s23	2s31	0n41	19s57	1n37	10n38	11s33	13s28	13s14	14n25	17n52	5s33

ASTRODIENST EPHEMERIS for the year 2138
geocentric

AUGUST 2138

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 37 59	8♂43'51	14♂40	19♂7	22♂41	14♂33	29°R 8	2°R21	7♂57	7°R29	11♂5	24°R 6	24♂46	22♂6	1♂44	F 1
S 2	20 41 56	9°41'15	27° 1	20°11	23°26	15° 9	29♂4	2♂16	8° 0	7♂28	11° 6	24♂4	24°43	22°12	1°49	S 2
S 3	20 45 53	10°38'39	9♂11	21°20	24°11	15°45	29° 0	2°12	8° 2	7°28	11° 7	24° 2	24°40	22°19	1°53	S 3
M 4	20 49 49	11°36'05	21°12	22°34	24°55	16°21	28°56	2° 8	8° 5	7°27	11° 8	24° 0	24°37	22°25	1°58	M 4
T 5	20 53 46	12°33'31	3♂9	23°54	25°38	16°57	28°52	2° 3	8° 7	7°27	11° 9	23°59	24°34	22°32	2° 2	T 5
W 6	20 57 42	13°30'58	14°55	25°18	26°20	17°33	28°49	1°59	8°10	7°26	11° 9	23°58	24°30	22°39	2° 7	W 6
T 7	21 1 39	14°28'26	26°42	26°47	27° 0	18° 9	28°45	1°55	8°12	7°26	11°10	23°D58	24°27	22°45	2°12	T 7
F 8	21 5 35	15°25'55	8♂29	28°21	27°40	18°45	28°42	1°50	8°15	7°25	11°11	23°58	24°24	22°52	2°16	F 8
S 9	21 9 32	16°23'25	20°18	29°59	28°19	19°22	28°39	1°46	8°17	7°25	11°11	23°59	24°21	22°59	2°20	S 9
S 10	21 13 28	17°20'55	2♂14	1♂40	28°57	19°58	28°36	1°42	8°20	7°25	11°12	24° 0	24°18	23° 5	2°25	S 10
M 11	21 17 25	18°18'27	14°18	3°26	29°33	20°35	28°33	1°38	8°23	7°24	11°13	24° 0	24°14	23°12	2°29	M 11
T 12	21 21 22	19°15'59	26°34	5°15	0♂8	21°12	28°30	1°34	8°26	7°24	11°13	24° 1	24°11	23°19	2°33	T 12
W 13	21 25 18	20°13'32	9♂7	7° 6	0°42	21°49	28°28	1°30	8°28	7°24	11°14	24° 1	24° 8	23°25	2°38	W 13
T 14	21 29 15	21°11'06	22° 0	9° 1	1°15	22°26	28°26	1°26	8°31	7°24	11°14	24°R 1	24° 5	23°32	2°42	T 14
F 15	21 33 11	22° 8'41	5♂16	10°57	1°46	23° 3	28°24	1°22	8°34	7°24	11°15	24° 1	24° 2	23°39	2°46	F 15
S 16	21 37 8	23° 6'17	18°57	12°55	2°16	23°40	28°22	1°18	8°37	7°24	11°16	24° 1	23°59	23°45	2°50	S 16
S 17	21 41 4	24° 3'54	3♂5	14°55	2°44	24°17	28°20	1°14	8°40	7°23	11°16	24°D 1	23°55	23°52	2°54	S 17
M 18	21 45 1	25° 1'32	17°38	16°55	3°11	24°55	28°19	1°10	8°43	7°23	11°17	24° 1	23°52	23°58	2°58	M 18
T 19	21 48 58	25°59'10	2♂31	18°57	3°36	25°32	28°18	1° 6	8°46	7°D23	11°17	24° 1	23°49	24° 5	3° 2	T 19
W 20	21 52 54	26°56'50	17°39	20°58	4° 0	26°10	28°17	1° 2	8°49	7°23	11°18	24°R 1	23°46	24°12	3° 6	W 20
T 21	21 56 51	27°54'31	2♂51	23° 0	4°21	26°48	28°16	0°58	8°52	7°23	11°18	24° 1	23°43	24°18	3°10	T 21
F 22	22 0 47	28°52'14	18° 0	25° 2	4°41	27°26	28°15	0°55	8°55	7°23	11°18	24° 1	23°39	24°25	3°14	F 22
S 23	22 4 44	29°49'57	2♂55	27° 3	4°59	28° 4	28°15	0°51	8°58	7°24	11°19	24° 0	23°36	24°32	3°18	S 23
S 24	22 8 40	0♂47'43	17°29	29° 3	5°16	28°42	28°14	0°48	9° 1	7°24	11°19	24° 0	23°33	24°38	3°21	S 24
M 25	22 12 37	1°45'30	1♂38	1♂3	5°30	29°20	28°D14	0°44	9° 5	7°24	11°20	23°59	23°30	24°45	3°25	M 25
T 26	22 16 33	2°43'18	15°21	3° 3	5°42	29°58	28°14	0°41	9° 8	7°24	11°20	23°58	23°27	24°52	3°28	T 26
W 27	22 20 30	3°41'09	28°37	5° 1	5°53	0♂36	28°14	0°37	9°11	7°24	11°20	23°D58	23°24	24°58	3°32	W 27
T 28	22 24 26	4°39'01	11♂28	6°58	6° 1	1°15	28°15	0°34	9°14	7°25	11°21	23°58	23°20	25° 5	3°35	T 28
F 29	22 28 23	5°36'55	23°59	8°54	6° 7	1°53	28°15	0°31	9°18	7°25	11°21	23°58	23°17	25°12	3°39	F 29
S 30	22 32 20	6°34'51	6♂14	10°48	6°10	2°32	28°16	0°28	9°21	7°25	11°21	23°59	23°14	25°18	3°42	S 30
S 31	22 36 16	7♂32'49	18♂16	12♂42	6°R12	3♂11	28♂17	0♂25	9♂24	7♂26	11♂21	24♂1	23♂11	25♂25	3♂45	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	18n 4	27n27	4n56	20n18	1s47	1n34	1s28	5s45	0s 1	23s16	0n 9	20s 0	0s24	2s32	0n41	19s57
S 2	17 49	27 49	4 26	20 24	1 31	1 8	1 36	5 59	0 2	23 16	0 9	20 1	0 24	2 33	0 41	19 57
S 3	17 33	26 49	3 43	20 29	1 16	0 42	1 45	6 14	0 3	23 16	0 9	20 2	0 24	2 34	0 41	19 57
M 4	17 18	24 35	2 52	20 32	1 1	0 17	1 53	6 29	0 4	23 16	0 9	20 4	0 24	2 35	0 41	19 57
T 5	17 2 21	17 51	1 53	20 33	0 47	0s 8	2 2	6 43	0 4	23 17	0 9	20 5	0 24	2 36	0 41	19 57
W 6	16 45	17 9	0 50	20 32	0 32	0 33	2 11	6 58	0 5	23 17	0 8	20 6	0 24	2 37	0 40	19 57
T 7	16 29	12 22	0s15	20 29	0 19	0 57	2 20	7 13	0 6	23 17	0 8	20 7	0 24	2 38	0 40	19 57
F 8	16 12	7 9	1 20	20 24	0 5	1 22	2 30	7 27	0 7	23 17	0 8	20 8	0 24	2 39	0 40	19 57
S 9	15 55	1 40	2 21	20 16	0n 8	1 46	2 39	7 42	0 8	23 17	0 8	20 9	0 24	2 40	0 40	19 57
S 10	15 37	3s54	3 17	20 6	0 20	2 10	2 49	7 56	0 9	23 17	0 8	20 10	0 24	2 41	0 40	19 57
M 11	15 20	9 23	4 5	19 53	0 31	2 33	2 58	8 11	0 10	23 17	0 8	20 11	0 24	2 42	0 40	19 57
T 12	15 2 14	37 4	4 42	19 38	0 42	2 56	3 8	8 26	0 10	23 17	0 7	20 12	0 24	2 43	0 40	19 57
W 13	14 44	19 22	5 7	19 19	0 52	3 19	3 18	8 40	0 11	23 18	0 7	20 13	0 24	2 44	0 40	19 57
T 14	14 26	23 25	5 18	18 59	1 1	3 41	3 28	8 55	0 12	23 18	0 7	20 14	0 25	2 46	0 40	19 57
F 15	14 7	26 16	5 12	18 35	1 10	4 3	3 39	9 9	0 13	23 18	0 7	20 15	0 25	2 47	0 40	19 57
S 16	13 48	27 45	4 48	18 9	1 17	4 24	3 49	9 24	0 14	23 18	0 7	20 16	0 25	2 48	0 40	19 57
S 17	13 29	27 30	4 7	17 41	1 24	4 45	4 0	9 38	0 15	23 18	0 7	20 16	0 25	2 49	0 40	19 57
M 18	13 10	25 23	3 9	17 10	1 29	5 6	4 10	9 53	0 15	23 18	0 7	20 17	0 25	2 50	0 40	19 57
T 19	12 51	21 29	1 57	16 37	1 34	5 26	4 21	10 7	0 16	23 18	0 6	20 18	0 25	2 52	0 40	19 58
W 20	12 31	16 6	0 35	16 3	1 38	5 45	4 32	10 22	0 17	23 18	0 6	20 19	0 25	2 53	0 40	19 58
T 21	12 12	9 41	0n49	15 26	1 41	6 3	4 43	10 36	0 18	23 19	0 6	20 20	0 25	2 54	0 40	19 58
F 22	11 52	2 45	2 9	14 48	1 43	6 22	4 54	10 50	0 18	23 19	0 6	20 21	0 25	2 55	0 40	19 58
S 23	11 31	4n13	3 20	14 8	1 45	6 39	5 5	11 5	0 19	23 19	0 6	20 22	0 25	2 56	0 40	19 58
S 24	11 11	10 47	4 15	13 27	1 46	6 56	5 16	11 19	0 20	23 19	0 6	20 23	0 25	2 58	0 40	19 58
M 25	10 51	16 37	4 54	12 44	1 46	7 11	5 27	11 33	0 21	23 19	0 6	20 23	0 25	2 59	0 40	19 58
T 26	10 30	21 25	5 14	12 1	1 45	7 27	5 38	11 47	0 21	23 19	0 5	20 24	0 25	3 0	0 40	19 58
W 27	10 9	24 59	5 16	11 17	1 44	7 41	5 50	12 1	0 22	23 19	0 5	20 25	0 25	3 2	0 40	19 58
T 28	9 48	27 8	5 3	10 32	1 42	7 54	6 1	12 16	0 23	23 20	0 5	20 26	0 25	3 3	0 40	19 58
F 29	9 27	27 52	4 35	9 46	1 40	8 7	6 12	12 30	0 24	23 20	0 5	20 27	0 25	3 4	0 40	19 58
S 30	9 5	27 12	3 55	9 0	1 37	8 18	6 23	12 44	0 24	23 20	0 5	20 27	0 26	3 6	0 40	19 58
S 31	8n44	25n15	3n 6	8n14	1n33	8s29	6s33	12s58	0s25	23s20	0n 5	20s28	0s26	3s 7	0n40	19s59

Julian Day Number = 2502160.5, Delta T = 114.16 sec
Ecliptic obliquity = 23°25'24, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°40'36, Lahiri = 25°47'36

ASTRODIENST EPHEMERIS for the year 2138
geocentric

SEPTEMBER 2138

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 40 13	8 ^h 30'48	0 ^h 09' 9	14 ^h 34	6 ^h R11	3 ^h M50	28 ^h 18	0 ^h R22	9 ^h 28	7 ^h 26	11 ^h II22	24 ^h 22	23 ^h 28	25 ^h 032	3 ^h 249	M 1
T 2	22 44 9	9 ^h 28'49	11 ^h 57	16 ^h 25	6 ^h 28	4 ^h 29	28 ^h 20	0 ^h 219	9 ^h 31	7 ^h 26	11 ^h 22	24 ^h 3	23 ^h 5	25 ^h 38	3 ^h 52	T 2
W 3	22 48 6	10 ^h 26'51	23 ^h 44	18 ^h 15	6 ^h 3	5 ^h 8	28 ^h 21	0 ^h 16	9 ^h 34	7 ^h 27	11 ^h 22	24 ^h R 3	23 ^h 1	25 ^h 45	3 ^h 55	W 3
T 4	22 52 2	11 ^h 24'56	5 ^h 32	20 ^h 4	5 ^h 55	5 ^h 47	28 ^h 23	0 ^h 13	9 ^h 38	7 ^h 27	11 ^h 22	24 ^h 3	22 ^h 58	25 ^h 51	3 ^h 58	T 4
F 5	22 55 59	12 ^h 23'02	17 ^h 23	21 ^h 51	5 ^h 45	6 ^h 26	28 ^h 25	0 ^h 10	9 ^h 41	7 ^h 28	11 ^h 22	24 ^h 1	22 ^h 55	25 ^h 58	4 ^h 1	F 5
S 6	22 59 55	13 ^h 21'09	29 ^h 19	23 ^h 37	5 ^h 32	7 ^h 5	28 ^h 27	0 ^h 8	9 ^h 45	7 ^h 28	11 ^h 22	23 ^h 59	22 ^h 52	26 ^h 5	4 ^h 4	S 6
S 7	23 3 52	14 ^h 19'19	11 ^h 23	25 ^h 22	5 ^h 17	7 ^h 45	28 ^h 29	0 ^h 5	9 ^h 48	7 ^h 29	11 ^h 22	23 ^h 56	22 ^h 49	26 ^h 11	4 ^h 7	S 7
M 8	23 7 49	15 ^h 17'29	23 ^h 37	27 ^h 5	5 ^h 0	8 ^h 24	28 ^h 32	0 ^h 3	9 ^h 52	7 ^h 30	11 ^h 23	23 ^h 53	22 ^h 45	26 ^h 18	4 ^h 10	M 8
T 9	23 11 45	16 ^h 15'42	6 ^h M 2	28 ^h 48	4 ^h 40	9 ^h 4	28 ^h 34	0 ^h 0	9 ^h 55	7 ^h 30	11 ^h 23	23 ^h 49	22 ^h 42	26 ^h 25	4 ^h 12	T 9
W10	23 15 42	17 ^h 13'56	18 ^h 40	0 ^h 29	4 ^h 18	9 ^h 44	28 ^h 37	29 ^h 58	9 ^h 59	7 ^h 31	11 ^h 23	23 ^h 47	22 ^h 39	26 ^h 31	4 ^h 15	W10
T 11	23 19 38	18 ^h 12'11	1 ^h 35	2 ^h 9	3 ^h 54	10 ^h 24	28 ^h 40	29 ^h 56	10 ^h 2	7 ^h 32	11 ^h R23	23 ^h 45	22 ^h 36	26 ^h 38	4 ^h 17	T 11
F 12	23 23 35	19 ^h 10'28	14 ^h 48	3 ^h 48	3 ^h 28	11 ^h 3	28 ^h 43	29 ^h 54	10 ^h 6	7 ^h 32	11 ^h 23	23 ^h D44	22 ^h 33	26 ^h 45	4 ^h 20	F 12
S 13	23 27 31	20 ^h 8'47	28 ^h 22	5 ^h 26	3 ^h 0	11 ^h 43	28 ^h 47	29 ^h 52	10 ^h 10	7 ^h 33	11 ^h 23	23 ^h 44	22 ^h 30	26 ^h 51	4 ^h 22	S 13
S 14	23 31 28	21 ^h 7'07	12 ^h 317	7 ^h 2	2 ^h 31	12 ^h 24	28 ^h 50	29 ^h 50	10 ^h 13	7 ^h 34	11 ^h 22	23 ^h 45	22 ^h 26	26 ^h 58	4 ^h 25	S 14
M15	23 35 24	22 ^h 5'29	26 ^h 34	8 ^h 38	1 ^h 59	13 ^h 4	28 ^h 54	29 ^h 48	10 ^h 17	7 ^h 35	11 ^h 22	23 ^h 46	22 ^h 23	27 ^h 5	4 ^h 27	M15
T 16	23 39 21	23 ^h 3'52	11 ^h 22	10 ^h 12	1 ^h 27	13 ^h 44	28 ^h 58	29 ^h 46	10 ^h 20	7 ^h 36	11 ^h 22	23 ^h 47	22 ^h 20	27 ^h 11	4 ^h 29	T 16
W17	23 43 18	24 ^h 2'16	26 ^h 5	11 ^h 45	0 ^h 52	14 ^h 24	29 ^h 2	29 ^h 44	10 ^h 24	7 ^h 37	11 ^h 22	23 ^h R48	22 ^h 17	27 ^h 18	4 ^h 31	W17
T 18	23 47 14	25 ^h 0'43	11 ^h 28	13 ^h 18	0 ^h 17	15 ^h 5	29 ^h 6	29 ^h 43	10 ^h 28	7 ^h 38	11 ^h 22	23 ^h 47	22 ^h 14	27 ^h 24	4 ^h 34	T 18
F 19	23 51 11	25 ^h 59'11	26 ^h 12	14 ^h 49	29 ^h 41	15 ^h 45	29 ^h 10	29 ^h 41	10 ^h 32	7 ^h 39	11 ^h 22	23 ^h 44	22 ^h 11	27 ^h 31	4 ^h 36	F 19
S 20	23 55 7	26 ^h 57'41	11 ^h 28	16 ^h 19	29 ^h 5	16 ^h 26	29 ^h 15	29 ^h 40	10 ^h 35	7 ^h 40	11 ^h 22	23 ^h 40	22 ^h 7	27 ^h 38	4 ^h 37	S 20
S 21	23 59 4	27 ^h 56'13	25 ^h 47	17 ^h 48	28 ^h 28	17 ^h 7	29 ^h 20	29 ^h 38	10 ^h 39	7 ^h 41	11 ^h 21	23 ^h 36	22 ^h 4	27 ^h 44	4 ^h 39	S 21
M22	0 3 0	28 ^h 54'47	10 ^h 28	19 ^h 16	27 ^h 50	17 ^h 47	29 ^h 25	29 ^h 37	10 ^h 43	7 ^h 42	11 ^h 21	23 ^h 30	22 ^h 1	27 ^h 51	4 ^h 41	M22
T 23	0 6 57	29 ^h 53'23	23 ^h 54	20 ^h 42	27 ^h 13	18 ^h 28	29 ^h 30	29 ^h 36	10 ^h 46	7 ^h 43	11 ^h 21	23 ^h 25	21 ^h 58	27 ^h 58	4 ^h 43	T 23
W24	0 10 53	0 ^h 52'01	7 ^h II16	22 ^h 8	26 ^h 37	19 ^h 9	29 ^h 35	29 ^h 35	10 ^h 50	7 ^h 44	11 ^h 21	23 ^h 22	21 ^h 55	28 ^h 4	4 ^h 44	W24
T 25	0 14 50	1 ^h 50'42	20 ^h 11	23 ^h 33	26 ^h 1	19 ^h 50	29 ^h 40	29 ^h 34	10 ^h 54	7 ^h 45	11 ^h 20	23 ^h 19	21 ^h 51	28 ^h 11	4 ^h 46	T 25
F 26	0 18 47	2 ^h 49'25	2 ^h 244	24 ^h 56	25 ^h 26	20 ^h 31	29 ^h 46	29 ^h 33	10 ^h 58	7 ^h 46	11 ^h 20	23 ^h D18	21 ^h 48	28 ^h 18	4 ^h 47	F 26
S 27	0 22 43	3 ^h 48'10	14 ^h 57	26 ^h 18	24 ^h 51	21 ^h 13	29 ^h 52	29 ^h 33	11 ^h 1	7 ^h 47	11 ^h 20	23 ^h 19	21 ^h 45	28 ^h 24	4 ^h 49	S 27
S 28	0 26 40	4 ^h 46'58	26 ^h 56	27 ^h 39	24 ^h 19	21 ^h 54	29 ^h 58	29 ^h 32	11 ^h 5	7 ^h 49	11 ^h 19	23 ^h 21	21 ^h 42	28 ^h 31	4 ^h 50	S 28
M29	0 30 36	5 ^h 45'47	8 ^h 047	28 ^h 59	23 ^h 47	22 ^h 35	0 ^h 28	29 ^h 31	11 ^h 9	7 ^h 50	11 ^h 19	23 ^h 22	21 ^h 39	28 ^h 38	4 ^h 51	M29
T 30	0 34 33	6 ^h 44'39	20 ^h 034	0 ^h M17	23 ^h 18	23 ^h M17	0 ^h 28	29 ^h 31	11 ^h 13	7 ^h 51	11 ^h II19	23 ^h R23	21 ^h 36	28 ^h 044	4 ^h 53	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	8n22	22n12	2n 9	7n27	1n30	8s38	6s44	13s11	0s26	23s20	0n 5	20s29	0s26	3s 8	0n40	19s59	1n35	10n34	11s39	13s30	13s48	12n48	17n36	5s46			
T 2	8 1	18 16	1 7	6 40	1 25	8 47	6 55	13 25	0 27	23 20	0 4	20 29	0 26	3 10	0 40	19 59	1 35	10 34	11 40	13 30	13 49	12 45	17 35	5 47			
W 3	7 39	13 38	0 2	5 53	1 21	8 54	7 5	13 39	0 27	23 20	0 4	20 30	0 26	3 11	0 40	19 59	1 35	10 34	11 40	13 30	13 50	12 42	17 35	5 47			
T 4	7 17	8 30	1s 3	5 6	1 16	9 0	7 15	13 53	0 28	23 21	0 4	20 31	0 26	3 12	0 40	19 59	1 35	10 34	11 40	13 30	13 51	12 39	17 34	5 48			
F 5	6 55	3 3	2 5	4 19	1 10	9 5	7 25	14 6	0 29	23 21	0 4	20 31	0 26	3 14	0 40	19 59	1 35	10 34	11 40	13 30	13 52	12 36	17 34	5 48			
S 6	6 32	2s32	3 3	3 32	1 5	9 8	7 34	14 20	0 29	23 21	0 4	20 32	0 26	3 15	0 40	19 59	1 34	10 34	11 40	13 31	13 53	12 33	17 33	5 49			
S 7	6 10	8 4	3 52	2 45	0 59	9 10	7 43	14 33	0 30	23 21	0 4	20 33	0 26	3 16	0 40	20 0	1 34	10 33	11 41	13 32	13 54	12 30	17 33	5 49			
M 8	5 48	13 22	4 32	1 58	0 53	9 11	7 51	14 47	0 31	23 21	0 4	20 33	0 26	3 18	0 40	20 0	1 34	10 33	11 41	13 33	13 55	12 27	17 32	5 50			
T 9	5 25	18 14	5 0	1 11	0 46	9 11	7 59	15 0	0 31	23 21	0 4	20 34	0 26	3 19	0 40	20 0	1 34	10 33	11 41	13 34	13 56	12 23	17 31	5 50			
W10	5 2	22 23	5 13	0 25	0 40	9 9	8 7	15 14	0 32	23 22	0 3	20 34	0 26	3 21	0 40	20 0	1 34	10 33	11 41	13 35	13 57	12 20	17 31	5 51			
T 11	4 40	25 33	5 12	0s21	0 33	9 6	8 13	15 27	0 33	23 22	0 3	20 35	0 26	3 22	0 40	20 0	1 34	10 32	11 42	13 36	13 58	12 17	17 30	5 51			
F 12	4 17	27 25	4 54	1 7	0 26	9 1	8 20	15 40	0 33	23 22	0 3	20 35	0 26	3 23	0 40	20 0	1 34	10 32	11 42	13 36	13 59	12 14	17 30	5 52			
S 13	3 54	27 44	4 19	1 52	0 19	8 55	8 25	15 53	0 34	23 22	0 3	20 36	0 26	3 25	0 40	20 1	1 34	10 32	11 42	13 36	14 0	12 11	17 29	5 52			
S 14	3 31	26 19	3 29	2 37	0 12	8 47	8 30	16 6	0 35	23 22	0 3	20 36	0 26	3 26	0 39	20 1	1 34	10 32	11 42	13 36	14 1	12 8	17 28	5 53			
M15	3 8	23 11	2 24	3 21	0 4	8 38	8 34	16 19	0 35	23 22	0 3	20 37	0 26	3 28	0 39	20 1	1 34	10 32	11 42	13 35	14 2	12 5	17 28	5 53			
T 16	2 45	18 30	1 9	4 5	0s 3	8 28	8 37	16 31	0 36	23 22	0 3	20 37	0 26	3 29	0 39	20 1	1 34	10 31	11 43	13 35	14 3	12 2	17 27	5 54			
W17	2 22	12 37	0n13	4 48	0 10	8 17	8 39	16 44	0 37	23 23	0 3	20 37	0 26	3 31	0 39	20 1	1 34	10 31	11 43	13 35	14 5	11 59	17 27	5 54			
T 18	1 59	5 57	1 34	5 31	0 18	8 4	8 40	16 56	0 37	23 23	0 3	20 38	0 27	3 32	0 39	20 2	1 34	10 31	11 43	13 35	14 6	11 56	17 26	5 55			
F 19	1 36	1n 4	2 48	6 14	0 26	7 50	8 41	17 9	0 38	23 23	0 2	20 38	0 27	3 34	0 39	20 2	1 34	10 31	11 43	13 36	14 7	11 53	17 25	5 56			
S 20	1 12	7 56	3 50	6 56	0 33	7 35	8 40	17 21	0 38	23 23	0 2	20 38	0 27	3 35	0 39	20 2	1 34	10 31	11 43	13 37	14 8	11 49	17 25	5 56			
S 21	0 49	14 14	4 36	7 37	0 41	7 19	8 38	17 33	0 39	23 23	0 2	20 39	0 27	3 36	0 39	20 2	1 34	10 30	11 44	13 39	14 9	11 46	17 24	5 57			
M22	0 26	19 37	5 3	8 17	0 49	7 2	8 36	17 45	0 40	23 23	0 2	20 39	0 27	3 38	0 39	20 2	1 34	10 30	11 44	13 41	14 10	11 43	17 23	5 57			
T23	0 3	23 46	5 12	8 57	0 57	6 44	8 33	17 57	0 40	23 24	0 2	20 39	0 27	3 39	0 39	20 3	1 34	10 30	11 44	13 42	14 11	11 40	17 23	5 58			
W24	0s21	26 29	5 3	9 37	1 4	6 26	8 28	18 9	0 41	23 24	0 2	20 40	0 27	3 41	0 39	20 3	1 33	10 30	11 44	13 43	14 12	11 37	17 22	5 58			
T 25	0 44	27 41	4 38	10 15	1 12	6 7	8 23	18 21	0 41	23 24	0 2	20 40	0 27	3 42	0 39	20 3	1 33	10 29	11 44	13 44	14 13	11 34	17 22	5 59			
F 26	1 7	27 25	4 1	10 53	1 20	5 47	8 17	18 33	0 42	23 24	0 1	20 40	0 27	3 44	0 39	20 3	1 33	10 29	11 45	13 44	14 14	11 31	17 21	5 59			
S 27	1 31	25 48	3 14	11 30	1 27	5 27	8 10	18 44	0 42	23 24	0 1	20 40	0 27	3 45	0 39	20 4	1 33	10 29	11 45	13 44	14 15	11 28	17 20	6 0			
S 28	1 54	23 2	2 19	12 6	1 35	5 7	8 2	18 55	0 43	23 24	0 1	20 40	0 27	3 47	0 39	20 4	1 33	10 29	11 45	13 44	14 16	11 24	17 20	6 1			
M29	2 17	19 19	1 19	12 42	1 42	5 47	7 54	19 7	0 44	23 24	0 1	20 41	0 27	3 48	0 39	20 4	1 33	10 28	11 45	13 43	14 17	11 21	17 19	6 1			
T 30	2s41	14n52	0n15	13s17	1s50	4s27	7s45	19s18	0s44	23s24	0n 1	20s41	0s27	3s50	0n39	20s 4	1n33	10n28	11s45	13s43	14s18	11n18	17n19	6s 2			

ASTRODIENST EPHEMERIS for the year 2138
geocentric

OCTOBER 2138

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 38 29	7♌43'33	2♍21	1♋35	22°R50	23♌58	0♊16	29°R31	11♌16	7♌52	11°R18	23°R23	21♌32	28♌51	4♌54	W 1
T 2	0 42 26	8°42'29	14°12	2°50	22♍24	24°40	0°23	29♊30	11°20	7°54	11♌18	23♌20	21°29	28°57	4°55	T 2
F 3	0 46 22	9°41'27	26°10	4° 4	22° 0	25°22	0°29	29°30	11°24	7°55	11°17	23°16	21°26	29° 4	4°56	F 3
S 4	0 50 19	10°40'27	8♌17	5°17	21°38	26° 3	0°36	29°D30	11°28	7°57	11°17	23° 9	21°23	29°11	4°56	S 4
S 5	0 54 16	11°39'29	20°35	6°28	21°19	26°45	0°43	29°30	11°32	7°58	11°16	23° 1	21°20	29°17	4°57	S 5
M 6	0 58 12	12°38'34	3♋ 3	7°37	21° 1	27°27	0°50	29°30	11°35	7°59	11°16	22°52	21°16	29°24	4°58	M 6
T 7	1 2 9	13°37'40	15°44	8°44	20°47	28° 9	0°57	29°30	11°39	8° 1	11°15	22°42	21°13	29°31	4°59	T 7
W 8	1 6 5	14°36'48	28°37	9°49	20°34	28°51	1° 5	29°31	11°43	8° 2	11°15	22°34	21°10	29°37	4°59	W 8
T 9	1 10 2	15°35'58	11♌43	10°52	20°24	29°34	1°12	29°31	11°47	8° 4	11°14	22°27	21° 7	29°44	4°59	T 9
F 10	1 13 58	16°35'10	25° 2	11°52	20°17	0♌16	1°20	29°32	11°51	8° 5	11°14	22°23	21° 4	29°51	5° 0	F 10
S 11	1 17 55	17°34'24	8♊35	12°50	20°11	0°58	1°28	29°32	11°54	8° 7	11°13	22°21	21° 1	29°57	5° 0	S 11
S 12	1 21 51	18°33'39	22°23	13°45	20° 9	1°41	1°36	29°33	11°58	8° 9	11°13	22°D21	20°57	0♍ 4	5° 0	S 12
M13	1 25 48	19°32'56	6♌26	14°36	20°D 8	2°23	1°44	29°34	12° 2	8°10	11°12	22°21	20°54	0°11	5° 0	M13
T 14	1 29 45	20°32'15	20°44	15°25	20°10	3° 6	1°52	29°35	12° 6	8°12	11°11	22°R22	20°51	0°17	5°R 0	T 14
W15	1 33 41	21°31'36	5♌16	16° 9	20°15	3°49	2° 1	29°36	12° 9	8°14	11°11	22°21	20°48	0°24	5° 0	W15
T 16	1 37 38	22°30'58	19°57	16°49	20°21	4°31	2° 9	29°37	12°13	8°15	11°10	22°18	20°45	0°31	5° 0	T 16
F 17	1 41 34	23°30'22	4♍41	17°25	20°30	5°14	2°18	29°38	12°17	8°17	11° 9	22°13	20°42	0°37	5° 0	F 17
S 18	1 45 31	24°29'48	19°23	17°55	20°41	5°57	2°26	29°40	12°21	8°19	11° 8	22° 5	20°38	0°44	5° 0	S 18
S 19	1 49 27	25°29'16	3♌53	18°20	20°55	6°40	2°35	29°41	12°24	8°20	11° 8	21°56	20°35	0°50	4°59	S 19
M20	1 53 24	26°28'46	18° 6	18°40	21°10	7°23	2°44	29°43	12°28	8°22	11° 7	21°45	20°32	0°57	4°59	M20
T 21	1 57 20	27°28'19	1♌56	18°52	21°27	8° 6	2°53	29°44	12°32	8°24	11° 6	21°35	20°29	1° 4	4°58	T 21
W22	2 1 17	28°27'53	15°19	18°R58	21°47	8°50	3° 3	29°46	12°35	8°26	11° 5	21°26	20°26	1°10	4°58	W22
T 23	2 5 14	29°27'30	28°18	18°55	22° 8	9°33	3°12	29°48	12°39	8°28	11° 5	21°20	20°22	1°17	4°57	T 23
F 24	2 9 10	0♍27'09	10♌52	18°45	22°31	10°16	3°21	29°50	12°43	8°30	11° 4	21°16	20°19	1°24	4°56	F 24
S 25	2 13 7	1°26'51	23° 7	18°26	22°56	11° 0	3°31	29°52	12°46	8°31	11° 3	21°14	20°16	1°30	4°55	S 25
S 26	2 17 3	2°26'34	5♌ 7	17°59	23°23	11°43	3°41	29°54	12°50	8°33	11° 2	21°D13	20°13	1°37	4°55	S 26
M27	2 21 0	3°26'20	16°58	17°22	23°51	12°27	3°51	29°56	12°54	8°35	11° 1	21°R14	20°10	1°44	4°54	M27
T 28	2 24 56	4°26'08	28°46	16°36	24°21	13°10	4° 0	29°59	12°57	8°37	11° 0	21°13	20° 7	1°50	4°52	T 28
W29	2 28 53	5°25'58	10♍34	15°42	24°52	13°54	4°10	0♌ 1	13° 1	8°39	11° 0	21°12	20° 3	1°57	4°51	W29
T 30	2 32 49	6°25'50	22°29	14°41	25°25	14°38	4°21	0° 4	13° 5	8°41	10°59	21° 8	20° 0	2° 4	4°50	T 30
F 31	2 36 46	7♌25'45	4♌34	13♌32	26♍ 0	15♌22	4♊31	0♌ 6	13♌ 8	8♌43	10♌58	21♌ 1	19♌57	2♍10	4♌49	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
W 1	3s 4	9n53	0s48	13s50	1s57	4s 7	7s35	19s28	0s45	23s24	0n 1	20s41	0s27	3s51	0n39	20s 5	1n33	10n28	11s46	13s43	14s19	11n15	17n18	6s 2			
T 2	3 27	4 31	1 50	14 23	2 4	3 48	7 25	19 39	0 45	23 25	0 1	20 41	0 27	3 53	0 39	20 5	1 33	10 28	11 46	13 44	14 20	11 12	17 17	6 3			
F 3	3 50	1s 3	2 48	14 55	2 11	3 29	7 14	19 50	0 46	23 25	0 1	20 41	0 27	3 54	0 39	20 5	1 33	10 27	11 46	13 45	14 21	11 9	17 17	6 3			
S 4	4 13	6 37	3 38	15 26	2 17	3 10	7 3	20 0	0 46	23 25	0 1	20 41	0 27	3 56	0 39	20 5	1 33	10 27	11 46	13 47	14 22	11 6	17 16	6 4			
S 5	4 36	12 2	4 19	15 56	2 24	2 51	6 51	20 11	0 47	23 25	0 0	20 41	0 27	3 57	0 39	20 6	1 33	10 27	11 46	13 50	14 23	11 3	17 15	6 5			
M 6	4 59	17 2	4 49	16 25	2 30	2 33	6 39	20 21	0 47	23 25	0 0	20 41	0 27	3 59	0 39	20 6	1 33	10 27	11 46	13 53	14 24	10 59	17 15	6 5			
T 7	5 22	21 23	5 4	16 52	2 36	2 16	6 27	20 31	0 48	23 25	0 0	20 41	0 27	4 0	0 39	20 6	1 33	10 26	11 47	13 56	14 25	10 56	17 14	6 6			
W 8	5 45	24 47	5 5	17 19	2 42	2 0	6 14	20 41	0 48	23 25	0 0	20 41	0 27	4 2	0 39	20 6	1 33	10 26	11 47	13 59	14 26	10 53	17 14	6 6			
T 9	6 8	26 57	4 49	17 44	2 48	1 44	6 1	20 50	0 49	23 25	0s 0	20 41	0 27	4 3	0 39	20 7	1 33	10 26	11 47	14 1	14 27	10 50	17 13	6 7			
F 10	6 31	27 38	4 18	18 8	2 53	1 29	5 48	21 0	0 49	23 25	0 0	20 41	0 27	4 5	0 39	20 7	1 33	10 26	11 47	14 3	14 28	10 47	17 13	6 7			
S 11	6 54	26 41	3 33	18 30	2 58	1 15	5 35	21 9	0 50	23 25	0 0	20 41	0 27	4 6	0 39	20 7	1 33	10 25	11 47	14 3	14 29	10 44	17 12	6 8			
S 12	7 16	24 5	2 34	18 51	3 2	1 2	5 22	21 18	0 50	23 25	0 0	20 41	0 27	4 8	0 39	20 8	1 33	10 25	11 48	14 3	14 30	10 41	17 11	6 9			
M13	7 39	20 1	1 24	19 10	3 6	0 50	5 9	21 27	0 51	23 25	0 0	20 41	0 27	4 9	0 39	20 8	1 33	10 25	11 48	14 3	14 31	10 37	17 11	6 9			
T 14	8 1	14 42	0 9	19 28	3 9	0 39	4 56	21 36	0 51	23 25	0 1	20 40	0 27	4 10	0 39	20 8	1 33	10 25	11 48	14 3	14 32	10 34	17 10	6 10			
W15	8 23	8 31	1n 8	19 43	3 12	0 28	4 43	21 45	0 52	23 25	0 1	20 40	0 28	4 12	0 39	20 9	1 32	10 25	11 48	14 3	14 33	10 31	17 10	6 10			
T 16	8 45	1 48	2 22	19 57	3 14	0 19	4 30	21 53	0 52	23 25	0 1	20 40	0 28	4 13	0 39	20 9	1 32	10 24	11 48	14 4	14 34	10 28	17 9	6 11			
F 17	9 7	5n 1	3 26	20 9	3 16	0 10	4 17	22 1	0 53	23 25	0 1	20 40	0 28	4 15	0 39	20 9	1 32	10 24	11 48	14 6	14 35	10 25	17 8	6 12			
S 18	9 29	11 32	4 16	20 18	3 16	0 3	4 4	22 10	0 53	23 25	0 1	20 39	0 28	4 16	0 39	20 9	1 32	10 24	11 48	14 8	14 36	10 22	17 8	6 12			
S 19	9 51	17 20	4 49	20 25	3 16	0n 4	3 51	22 17	0 54	23 25	0 1	20 39	0 28	4 18	0 39	20 10	1 32	10 24	11 49	14 11	14 37	10 19	17 7	6 13			
M20	10 13	22 3	5 3	20 29	3 15	0 9	3 38	22 25	0 54	23 25	0 1	20 39	0 28	4 19	0 39	20 10	1 32	10 23	11 49	14 15	14 38	10 15	17 7	6 13			
T 21	10 34	25 24	4 58	20 30	3 12	0 14	3 26	22 32	0 54	23 25	0 1	20 39	0 28	4 21	0 39	20 10	1 32	10 23	11 49	14 18	14 39	10 12	17 6	6 14			
W22	10 55	27 13	4 38	20 28	3 9	0 17	3 14	22 40	0 55	23 25	0 1	20 38	0 28	4 22	0 39	20 11	1 32	10 23	11 49	14 21	14 40	10 9	17 6	6 14			
T 23	11 16	27 28	4 3	20 23	3 4	0 20	3 2	22 47	0 55	23 25	0 1	20 38	0 28	4 24	0 39	20 11	1 32	10 23	11 49	14 23	14 41	10 6	17 5	6 15			
F 24	11 37	26 16	3 17	20 14	2 58	0 22	2 50	22 54	0 56	23 24	0 2	20 38	0 28	4 25	0 39	20 11	1 32	10 22	11 49	14 24	14 42	10 3	17 5	6 15			
S 25	11 58	23 48	2 24	20 2	2 50	0 23	2 38	23 0	0 56	23 24	0 2	20 37	0 28	4 26	0 39	20 12	1 32	10 22	11 49	14 25	14 43	10 0	17 4	6 16			
S 26	12 19	20 21	1 25	19 45	2 41	0 23	2 26	23 7	0 57	23 24	0 2	20 37	0 28	4 28	0 39	20 12	1 32	10 22	11 50	14 25	14 44	9 56	17 4	6 17			
M27	12 39	16 6	0 23	19 24	2 30	0 22	2 15	23 13	0 57	23 24	0 2	20 36	0 28	4 29	0 39	20 12	1 32	10 22	11 50	14 25	14 45	9 53	17 3	6 17			
T 28	12 59	11 16	0s40	18 58	2 17	0 21	2 4	23 19	0 57	23 24	0 2	20 36	0 28	4 31	0 39	20 13	1 32	10 21	11 50	14 25	14 46	9 50	17 3	6 18			
W29	13 19	6 3	1 41	18 29	2 2	0 18	1 53	23 25	0 58	23 24	0 2	20 35	0 28	4 33	0 39	20 13	1 32	10 21	11 50	14 25	14 47	9 47	17 2	6 18			
T 30	13 39	0 34	2 38	17 55	1 46	0 15	1 43	23 30	0 58	23 23	0 2	20 35	0 28	4 32	0 39	20 13	1 32	10 21	11 50	14 27	14 48	9 44	17 2	6 19			
F 31	13s59	5s 0	3s28	17s17	1s28	0n11	1s32	23s35	0s58	23s23	0s 2	20s34	0s28	4s35	0n39	20s14	1n32	10n21	11s50	14s29	14s49	9n40	17n 1	6s19			

ASTRODIENST EPHEMERIS for the year 2138
geocentric

NOVEMBER 2138

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 40 42	8♍25°41	16♌52	12♏R19	26♍36	16♌6	4♌41	0♌9	13♌12	8♌45	10♏R57	20♏R51	19♌54	2♍17	4♏R47	S 1
S 2	2 44 39	9°25'40	29°24	11♍2	27°13	16°50	4°52	0°12	13°15	8°47	10♍56	20♌39	19°51	2°24	4♌46	S 2
M 3	2 48 36	10°25'40	12♍12	9°45	27°51	17°34	5°2	0°14	13°19	8°49	10°55	20°26	19°48	2°30	4°44	M 3
T 4	2 52 32	11°25'43	25°14	8°29	28°31	18°18	5°13	0°17	13°22	8°51	10°54	20°13	19°44	2°37	4°43	T 4
W 5	2 56 29	12°25'47	8♌29	7°17	29°11	19°2	5°24	0°20	13°26	8°53	10°53	20°0	19°41	2°43	4°41	W 5
T 6	3 0 25	13°25'53	21°56	6°11	29°53	19°46	5°35	0°24	13°29	8°55	10°52	19°50	19°38	2°50	4°39	T 6
F 7	3 4 22	14°26'01	5♌32	5°13	0♌36	20°31	5°46	0°27	13°32	8°57	10°51	19°43	19°35	2°57	4°37	F 7
S 8	3 8 18	15°26'10	19°17	4°25	1°20	21°15	5°57	0°30	13°36	8°59	10°50	19°39	19°32	3°3	4°35	S 8
S 9	3 12 15	16°26'21	3♌8	3°48	2°5	22°0	6°8	0°34	13°39	9°2	10°49	19°37	19°28	3°10	4°33	S 9
M10	3 16 12	17°26'33	17°8	3°22	2°52	22°44	6°19	0°37	13°42	9°4	10°48	19°37	19°25	3°17	4°31	M10
T 11	3 20 8	18°26'47	1♌13	3°8	3°39	23°29	6°30	0°41	13°46	9°6	10°47	19°37	19°22	3°23	4°29	T 11
W12	3 24 5	19°27'02	15°26	3°D 6	4°26	24°13	6°42	0°44	13°49	9°8	10°46	19°35	19°19	3°30	4°27	W12
T 13	3 28 1	20°27'18	29°42	3°14	5°15	24°58	6°53	0°48	13°52	9°10	10°45	19°31	19°16	3°37	4°24	T 13
F 14	3 31 58	21°27'36	14♏1	3°33	6°5	25°43	7°5	0°52	13°55	9°12	10°44	19°25	19°13	3°43	4°22	F 14
S 15	3 35 54	22°27'56	28°16	4°1	6°55	26°28	7°16	0°56	13°59	9°14	10°43	19°15	19°9	3°50	4°20	S 15
S 16	3 39 51	23°28'17	12♌24	4°39	7°46	27°13	7°28	1°0	14°2	9°17	10°42	19°4	19°6	3°57	4°17	S 16
M17	3 43 47	24°28'40	26°19	5°24	8°38	27°58	7°40	1°4	14°5	9°19	10°40	18°51	19°3	4°3	4°15	M17
T 18	3 47 44	25°29'04	9♍56	6°16	9°31	28°43	7°52	1°8	14°8	9°21	10°39	18°38	19°0	4°10	4°12	T 18
W19	3 51 41	26°29'30	23°12	7°14	10°25	29°28	8°4	1°12	14°11	9°23	10°38	18°27	18°57	4°17	4°9	W19
T 20	3 55 37	27°29'58	6♌7	8°18	11°19	0♌13	8°16	1°17	14°14	9°25	10°37	18°19	18°54	4°23	4°7	T 20
F 21	3 59 34	28°30'28	18°41	9°26	12°13	0°58	8°28	1°21	14°17	9°28	10°36	18°13	18°50	4°30	4°4	F 21
S 22	4 3 30	29°30'59	0♌56	10°38	13°9	1°43	8°40	1°26	14°20	9°30	10°35	18°9	18°47	4°37	4°1	S 22
S 23	4 7 27	0♌31°32	12°57	11°53	14°5	2°29	8°52	1°30	14°23	9°32	10°34	18°8	18°44	4°43	3°58	S 23
M24	4 11 23	1°32'07	24°49	13°12	15°2	3°14	9°5	1°35	14°26	9°34	10°33	18°D 8	18°41	4°50	3°55	M24
T25	4 15 20	2°32'43	6♍37	14°33	15°59	4°0	9°17	1°39	14°29	9°37	10°32	18°R 8	18°38	4°56	3°52	T25
W26	4 19 16	3°33'21	18°26	15°56	16°57	4°45	9°30	1°44	14°31	9°39	10°30	18°7	18°34	5°3	3°49	W26
T 27	4 23 13	4°34'01	0♌23	17°20	17°55	5°31	9°42	1°49	14°34	9°41	10°29	18°4	18°31	5°10	3°46	T 27
F 28	4 27 10	5°34'43	12°31	18°47	18°54	6°16	9°55	1°54	14°37	9°43	10°28	17°59	18°28	5°16	3°42	F 28
S 29	4 31 6	6°35'26	24°56	20°14	19°53	7°2	10°7	1°59	14°40	9°46	10°27	17°50	18°25	5°23	3°39	S 29
S 30	4 35 3	7♌36°10	7♍39	21♍43	20♌53	7♌48	10♌20	2♌4	14♌42	9♌48	10♍26	17♌40	18♌22	5♍30	3♌36	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	14s18	10s28	4s10	16s37	1s 9	0n 6	1s22	23s40	0s59	23s23	0s 2	20s34	0s28	4s36	0n39	20s14	1n32	10n21	11s50	14s32	14s50	9n37	17n 1	6s20			
S 2	14 37	15 37	4 40	15 54	0 49	0 0	1 12	23 45	0 59	23 23	0 2	20 33	0 28	4 37	0 39	20 14	1 32	10 20	11 50	14 36	14 51	9 34	17 0	6 20			
M 3	14 56	20 12	4 57	15 10	0 28	0s 6	1 3	23 50	1 0	23 22	0 3	20 33	0 28	4 39	0 39	20 15	1 32	10 20	11 50	14 40	14 52	9 31	17 0	6 21			
T 4	15 15	23 54	4 59	14 26	0 7	0 13	0 53	23 54	1 0	23 22	0 3	20 32	0 28	4 40	0 39	20 15	1 32	10 20	11 51	14 44	14 53	9 28	16 59	6 21			
W 5	15 33	26 24	4 45	13 44	0n13	0 21	0 44	23 58	1 0	23 22	0 3	20 31	0 28	4 41	0 39	20 15	1 32	10 20	11 51	14 48	14 54	9 25	16 59	6 22			
T 6	15 52	27 25	4 15	13 4	0 33	0 29	0 35	24 2	1 1	23 21	0 3	20 31	0 28	4 43	0 39	20 16	1 32	10 19	11 51	14 51	14 55	9 21	16 58	6 23			
F 7	16 10	26 49	3 30	12 27	0 51	0 38	0 26	24 6	1 1	23 21	0 3	20 30	0 28	4 44	0 39	20 16	1 32	10 19	11 51	14 54	14 56	9 18	16 58	6 23			
S 8	16 27	24 34	2 33	11 55	1 8	0 48	0 17	24 9	1 1	23 20	0 3	20 29	0 28	4 45	0 39	20 16	1 32	10 19	11 51	14 55	14 57	9 15	16 57	6 24			
S 9	16 45	20 50	1 26	11 28	1 23	0 58	0 9	24 12	1 2	23 20	0 3	20 29	0 28	4 47	0 39	20 17	1 32	10 19	11 51	14 55	14 58	9 12	16 57	6 24			
M10	17 2	15 54	0 13	11 7	1 37	1 9	0 1	24 15	1 2	23 20	0 3	20 28	0 28	4 48	0 40	20 17	1 32	10 19	11 51	14 56	14 59	9 9	16 56	6 25			
T 11	17 18	10 5	1n 1	10 51	1 48	1 20	0n 7	24 18	1 2	23 19	0 3	20 27	0 28	4 49	0 40	20 17	1 32	10 18	11 51	14 56	15 0	9 5	16 56	6 25			
W12	17 35	3 43	2 12	10 41	1 58	1 32	0 15	24 20	1 2	23 19	0 3	20 26	0 28	4 50	0 40	20 18	1 32	10 18	11 51	14 56	15 1	9 2	16 56	6 25			
T 13	17 51	2n52	3 15	10 37	2 6	1 45	0 22	24 22	1 3	23 18	0 4	20 26	0 28	4 52	0 40	20 18	1 32	10 18	11 51	14 57	15 2	8 59	16 55	6 26			
F 14	18 7	9 18	4 5	10 37	2 12	1 58	0 29	24 24	1 3	23 18	0 4	20 25	0 28	4 53	0 40	20 18	1 32	10 18	11 51	14 59	15 3	8 56	16 55	6 26			
S 15	18 22	15 13	4 41	10 43	2 16	2 11	0 36	24 26	1 3	23 17	0 4	20 24	0 29	4 54	0 40	20 19	1 32	10 18	11 51	15 2	15 4	8 53	16 54	6 27			
S 16	18 38	20 17	4 58	10 52	2 19	2 25	0 43	24 27	1 4	23 17	0 4	20 23	0 29	4 55	0 40	20 19	1 32	10 17	11 51	15 6	15 5	8 49	16 54	6 27			
M17	18 53	24 8	4 58	11 6	2 21	2 40	0 50	24 28	1 4	23 16	0 4	20 22	0 29	4 56	0 40	20 19	1 31	10 17	11 51	15 10	15 6	8 46	16 54	6 28			
T 18	19 7	26 32	4 40	11 23	2 21	2 55	0 56	24 29	1 4	23 15	0 4	20 21	0 29	4 58	0 40	20 20	1 31	10 17	11 51	15 14	15 7	8 43	16 53	6 28			
W19	19 21	27 22	4 8	11 42	2 21	3 10	1 2	24 30	1 4	23 15	0 4	20 21	0 29	4 59	0 40	20 20	1 31	10 17	11 51	15 17	15 8	8 40	16 53	6 29			
T 20	19 35	26 40	3 23	12 4	2 19	3 26	1 8	24 30	1 5	23 14	0 4	20 20	0 29	5 0	0 40	20 21	1 31	10 17	11 51	15 20	15 9	8 37	16 53	6 29			
F 21	19 49	24 35	2 29	12 28	2 16	3 42	1 14	24 30	1 5	23 13	0 4	20 19	0 29	5 1	0 40	20 21	1 31	10 17	11 51	15 22	15 10	8 33	16 52	6 30			
S 22	20 2	21 24	1 30	12 54	2 13	3 58	1 20	24 30	1 5	23 13	0 4	20 18	0 29	5 2	0 40	20 21	1 31	10 16	11 51	15 23	15 11	8 30	16 52	6 30			
S 23	20 15	17 21	0 28	13 21	2 9	4 15	1 25	24 29	1 5	23 12	0 4	20 17	0 29	5 3	0 40	20 22	1 31	10 16	11 51	15 23	15 12	8 27	16 52	6 30			
M24	20 27	12 41	0s35	13 49	2 5	4 32	1 30	24 28	1 5	23 11	0 5	20 16	0 29	5 4	0 40	20 22	1 31	10 16	11 51	15 23	15 13	8 24	16 51	6 31			
T 25	20 39	7 35	1 36	14 17	1 59	4 49	1 35	24 27	1 6	23 10	0 5	20 15	0 29	5 6	0 40	20 22	1 31	10 16	11 51	15 23	15 14	8 21	16 51	6 31			
W26	20 51	2 13	2 34	14 46	1 54	5 7	1 40	24 26	1 6	23 10	0 5	20 14	0 29	5 7	0 40	20 23	1 31	10 16	11 51	15 23	15 15	8 17	16 51	6 32			
T 27	21 2	3s17	3 24	15 16	1 48	5 25	1 44	24 25	1 6	23 9	0 5	20 13	0 29	5 8	0 40	20 23	1 31	10 16	11 51	15 24	15 16	8 14	16 50	6 32			
F 28	21 13	8 44	4 7	15 46	1 42	5 43	1 49	24 23	1 6	23 8	0 5	20 12	0 29	5 9	0 40	20 23	1 31	10 16	11 51	15 26	15 17	8 11	16 50	6 32			
S 29	21 24	13 58	4 39	16 15	1 36	6 2	1 53	24 21	1 6	23 7	0 5	20 11	0 29	5 10	0 40	20 24	1 31	10 15	11 51	15 28	15 18	8 8	16 50	6 33			
S 30	21s34	18s44	4s58	16s45	1n29	6s20	1n57	24s18	1s 7	23s 6	0s 5	20s 9	0s29	5s11	0n40	20s24	1n31	10n15	11s51	15s32	15s19	8n 5	16n50	6s33			

ASTRODIENST EPHEMERIS for the year 2138
geocentric

DECEMBER 2138

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	4 38 59	8♌36°56	20♍42	23♎12	21♏53	8♐33	10♑33	2♒9	14♓45	9♈50	10°R25	17°R28	18♉19	5♊36	3°R33	M 1
T 2	4 42 56	9♏37°44	4♌4	24°42	22°53	9°19	10°46	2°14	14°48	9°52	10♊24	17♋16	18°15	5°43	3♌29	T 2
W 3	4 46 52	10°38'33	17°43	26°13	23°55	10° 5	10°59	2°19	14°50	9°55	10°23	17° 5	18°12	5°50	3°26	W 3
T 4	4 50 49	11°39'23	1♌36	27°44	24°56	10°51	11°12	2°25	14°53	9°57	10°21	16°55	18° 9	5°56	3°22	T 4
F 5	4 54 45	12°40'14	15°38	29°15	25°58	11°37	11°25	2°30	14°55	9°59	10°20	16°49	18° 6	6° 3	3°19	F 5
S 6	4 58 42	13°41'06	29°46	0♌47	27° 0	12°23	11°38	2°36	14°57	10° 2	10°19	16°45	18° 3	6°10	3°15	S 6
S 7	5 2 39	14°41'59	13♉56	2°19	28° 3	13° 9	11°51	2°41	15° 0	10° 4	10°18	16°D44	18° 0	6°16	3°12	S 7
M 8	5 6 35	15°42'52	28° 5	3°52	29° 6	13°55	12° 4	2°47	15° 2	10° 6	10°17	16°44	17°56	6°23	3° 8	M 8
T 9	5 10 32	16°43'47	12♋13	5°24	0♍9	14°41	12°17	2°52	15° 4	10° 8	10°16	16°R45	17°53	6°30	3° 5	T 9
W10	5 14 28	17°44'42	26°17	6°57	1°13	15°28	12°30	2°58	15° 7	10°11	10°15	16°45	17°50	6°36	3° 1	W10
T 11	5 18 25	18°45'37	10♎18	8°29	2°17	16°14	12°44	3° 4	15° 9	10°13	10°13	16°42	17°47	6°43	2°57	T 11
F 12	5 22 21	19°46'34	24°14	10° 2	3°21	17° 0	12°57	3° 9	15°11	10°15	10°12	16°38	17°44	6°50	2°53	F 12
S 13	5 26 18	20°47'31	8♊3	11°35	4°26	17°46	13°10	3°15	15°13	10°17	10°11	16°31	17°40	6°56	2°50	S 13
S 14	5 30 14	21°48'29	21°43	13° 8	5°31	18°33	13°24	3°21	15°15	10°19	10°10	16°22	17°37	7° 3	2°46	S 14
M15	5 34 11	22°49'27	5♊11	14°42	6°36	19°19	13°37	3°27	15°17	10°22	10° 9	16°12	17°34	7°10	2°42	M15
T 16	5 38 8	23°50'26	18°26	16°15	7°41	20° 6	13°51	3°33	15°19	10°24	10° 8	16° 3	17°31	7°16	2°38	T 16
W17	5 42 4	24°51'27	1♌25	17°48	8°47	20°52	14° 4	3°39	15°21	10°26	10° 7	15°54	17°28	7°23	2°34	W17
T 18	5 46 1	25°52'27	14° 7	19°22	9°53	21°39	14°18	3°45	15°23	10°28	10° 6	15°48	17°25	7°30	2°31	T 18
F 19	5 49 57	26°53'29	26°33	20°55	10°59	22°25	14°32	3°52	15°25	10°31	10° 5	15°43	17°21	7°36	2°27	F 19
S 20	5 53 54	27°54'31	8♊45	22°29	12° 6	23°12	14°45	3°58	15°26	10°33	10° 4	15°41	17°18	7°43	2°23	S 20
S 21	5 57 50	28°55'35	20°45	24° 3	13°12	23°58	14°59	4° 4	15°28	10°35	10° 2	15°D41	17°15	7°49	2°19	S 21
M22	6 1 47	29°56'39	2♊36	25°37	14°19	24°45	15°13	4°10	15°30	10°37	10° 1	15°42	17°12	7°56	2°15	M22
T 23	6 5 44	0♌57°43	14°24	27°11	15°27	25°32	15°26	4°17	15°31	10°39	10° 0	15°44	17° 9	8° 3	2°11	T 23
W24	6 9 40	1°58'49	26°13	28°45	16°34	26°19	15°40	4°23	15°33	10°41	9°59	15°45	17° 6	8° 9	2° 7	W24
T 25	6 13 37	2°59'55	8♊10	0♌20	17°42	27° 5	15°54	4°29	15°34	10°43	9°58	15°R45	17° 2	8°16	2° 3	T 25
F 26	6 17 33	4° 1'02	20°18	1°54	18°50	27°52	16° 8	4°36	15°36	10°46	9°57	15°43	16°59	8°23	2° 0	F 26
S 27	6 21 30	5° 2'10	2♍42	3°29	19°58	28°39	16°21	4°42	15°37	10°48	9°56	15°40	16°56	8°29	1°56	S 27
S 28	6 25 26	6° 3'18	15°28	5° 4	21° 6	29°26	16°35	4°49	15°38	10°50	9°55	15°35	16°53	8°36	1°52	S 28
M29	6 29 23	7° 4'27	28°36	6°40	22°14	0♎13	16°49	4°55	15°40	10°52	9°54	15°29	16°50	8°43	1°48	M29
T 30	6 33 19	8° 5'37	12♋9	8°16	23°23	1° 0	17° 3	5° 2	15°41	10°54	9°53	15°22	16°46	8°49	1°44	T 30
W31	6 37 16	9♌6'47	26♌4	9♌52	24♍32	1♎47	17♌17	5♎9	15♌42	10♌56	9♊52	15♎16	16♎43	8♊56	1♌40	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	21s43	22s45	5s 2	17s14	1n22	6s39	2n 1	24s16	1s 7	23s 5	0s 5	20s 8	0s29	5s12	0n40	20s24	1n31	10n15	11s51	15s35	15s20	8n 1	16n49	6s33	
T 2	21 53	25 41	4 49	17 43	1 16	6 58	2 4	24 13	1 7	23 4	0 5	20 7	0 29	5 13	0 40	20 25	1 31	10 15	11 51	15 39	15 21	7 58	16 49	6 34	
W 3	22 2	27 11	4 21	18 11	1 8	7 17	2 8	24 9	1 7	23 3	0 5	20 6	0 29	5 14	0 40	20 25	1 31	10 15	11 51	15 42	15 22	7 55	16 49	6 34	
T 4	22 10	27 1	3 36	18 39	1 1	7 37	2 11	24 6	1 7	23 3	0 5	20 5	0 29	5 15	0 40	20 25	1 31	10 15	11 51	15 45	15 23	7 52	16 49	6 34	
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