



Astrodienst Ephemeris Tables for the year 2101

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 2101
geocentric

JANUARY 2101

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 0	10 ³² 15'1	23 ³⁵ 7	28 ³⁸ 18	25 ²⁷ 49	14 ²⁷ 0	17 ¹⁷ 0	6 ¹⁷ 57	21 ¹⁷ 44	19 ¹⁹ 30	3 ¹⁹ 23	29 ¹⁹ 58	1 ¹⁹ 37	22 ¹⁸ 56	14 ¹⁷ 3	S 1
S 2	6 45 57	11 ²³ 0'1	8 ²² 10	29 ⁴¹	27 ⁴	14 ⁴³	17 ¹¹	7 ²	21 ⁴⁴	19 ¹⁹ 30	3 ¹⁸ 22	29 ²² 54	1 ¹⁹ 33	23 ³	14 ¹⁰	S 2
M 3	6 49 53	12 ²⁴ 1'1	21 ⁵⁷	1 ²⁸ 1	28 ²⁰	15 ²⁶	17 ²¹	7 ⁶	21 ⁴⁴	19 ¹⁹ 29	3 ¹⁹ 22	29 ²⁵ 52	1 ¹⁹ 30	23 ⁹	14 ¹⁷	M 3
T 4	6 53 50	13 ²⁵ 2'1	5 ¹⁷ 12	2 ¹⁸	29 ³⁵	16 ⁹	17 ³⁰	7 ¹⁰	21 ⁴⁴	19 ¹⁹ 29	3 ¹⁹ 22	29 ²⁹ D52	1 ¹⁹ 27	23 ¹⁶	14 ²⁴	T 4
W 5	6 57 47	14 ²⁶ 3'1	18 ¹²	3 ³²	0 ³⁵ 1	16 ⁵¹	17 ⁴⁰	7 ¹⁵	21 ⁴⁵	19 ¹⁹ 29	3 ¹⁹ 21	29 ²⁹ 53	1 ¹⁹ 24	23 ²³	14 ³⁰	W 5
T 6	7 1 143	15 ²⁷ 40	0 ¹⁷ 45	4 ⁴¹	2 ⁶	17 ³⁴	17 ⁵⁰	7 ¹⁹	21 ⁴⁵	19 ¹⁹ 28	3 ¹⁹ 21	29 ²⁹ 54	1 ¹⁹ 21	23 ²⁹	14 ³⁷	T 6
F 7	7 5 40	16 ²⁸ 49	12 ⁵⁹	5 ⁴⁶	3 ²¹	18 ¹⁷	18 ⁰	7 ²³	21 ⁴⁵	19 ¹⁹ 27	3 ¹⁹ 21	29 ²⁹ R55	1 ¹⁹ 18	23 ³⁶	14 ⁴⁴	F 7
S 8	7 9 36	17 ²⁹ 58	25 ¹	6 ⁴⁵	4 ³⁷	19 ⁰	18 ⁹	7 ²⁷	21 ⁴⁶	19 ¹⁹ 27	3 ¹⁹ 21	29 ²⁹ 55	1 ¹⁹ 14	23 ⁴³	14 ⁵⁰	S 8
S 9	7 13 33	18 ³¹ 0'7	6 ¹⁸ 55	7 ³⁷	5 ⁵²	19 ⁴³	18 ¹⁸	7 ³⁰	21 ⁴⁶	19 ¹⁹ 26	3 ¹⁹ 21	29 ²⁹ 53	1 ¹⁹ 11	23 ⁵⁰	14 ⁵⁷	S 9
M10	7 17 29	19 ³² 1'5	18 ⁴⁶	8 ²²	7 ⁷	20 ²⁶	18 ²⁸	7 ³⁴	21 ⁴⁷	19 ¹⁹ 26	3 ¹⁹ 20	29 ²⁹ 49	1 ¹⁹ 8	23 ⁵⁶	15 ⁴	M10
T 11	7 21 26	20 ³³ 2'3	0 ¹¹ 39	8 ⁵⁹	8 ²³	21 ⁹	18 ³⁷	7 ³⁸	21 ⁴⁷	19 ¹⁹ 25	3 ¹⁹ 20	29 ²⁹ 43	1 ¹⁹ 5	24 ³	15 ¹⁰	T 11
W12	7 25 22	21 ³⁴ 3'0	12 ³⁷	9 ²⁷	9 ³⁸	21 ⁵²	18 ⁴⁶	7 ⁴²	21 ⁴⁸	19 ¹⁹ 24	3 ¹⁹ 20	29 ²⁹ 37	1 ¹⁹ 2	24 ¹⁰	15 ¹⁷	W12
T 13	7 29 19	22 ³⁵ 3'7	24 ⁴²	9 ⁴⁴	10 ⁵⁴	22 ³⁵	18 ⁵⁵	7 ⁴⁵	21 ⁴⁸	19 ¹⁹ 24	3 ¹⁹ 20	29 ²⁹ 29	0 ¹⁹ 59	24 ¹⁷	15 ²³	T 13
F 14	7 33 16	23 ³⁶ 4'4	6 ²⁵ 57	9 ¹⁵ 51	12 ⁹	23 ¹⁸	19 ⁴	7 ⁴⁸	21 ⁴⁹	19 ¹⁹ 23	3 ¹⁹ 20	29 ²⁹ 22	0 ¹⁹ 55	24 ²³	15 ³⁰	F 14
S 15	7 37 12	24 ³⁷ 5'0	19 ²³	9 ⁴⁷	13 ²⁴	24 ¹	19 ¹²	7 ⁵²	21 ⁵⁰	19 ¹⁹ 22	3 ¹⁹ 20	29 ²⁹ 16	0 ¹⁹ 52	24 ³⁰	15 ³⁶	S 15
S 16	7 41 9	25 ³⁸ 5'5	2 ¹⁹ 1	9 ³⁰	14 ⁴⁰	24 ⁴⁵	19 ²¹	7 ⁵⁵	21 ⁵¹	19 ¹⁹ 21	3 ¹⁹ 20	29 ²⁹ 12	0 ¹⁹ 49	24 ³⁷	15 ⁴²	S 16
M17	7 45 5	26 ⁴⁰ 0'1	14 ⁵¹	9 ²	15 ⁵⁵	25 ²⁸	19 ²⁹	7 ⁵⁸	21 ⁵¹	19 ¹⁹ 20	3 ¹⁹ D20	29 ²⁹ 9	0 ¹⁹ 46	24 ⁴³	15 ⁴⁸	M17
T 18	7 49 2	27 ⁴¹ 0'5	27 ⁵³	8 ²³	17 ¹⁰	26 ¹¹	19 ³⁸	8 ¹	21 ⁵²	19 ¹⁹ 20	3 ¹⁹ 20	29 ²⁹ D 8	0 ¹⁹ 43	24 ⁵⁰	15 ⁵⁵	T 18
W19	7 52 58	28 ⁴² 1'0	11 ¹⁹ 7	7 ³³	18 ²⁶	26 ⁵⁵	19 ⁴⁶	8 ⁴	21 ⁵³	19 ¹⁹ 19	3 ¹⁹ 20	29 ²⁹ 9	0 ¹⁹ 39	24 ⁵⁷	16 ¹	W19
T 20	7 56 55	29 ⁴³ 1'4	24 ³²	6 ³³	19 ⁴¹	27 ³⁸	19 ⁵⁴	8 ⁷	21 ⁵⁴	19 ¹⁹ 18	3 ¹⁹ 20	29 ²⁹ 10	0 ¹⁹ 36	25 ⁴	16 ⁷	T 20
F 21	8 0 51	0 ⁴⁴ 1'8	8 ²¹ 10	5 ²⁶	20 ⁵⁶	28 ²¹	20 ²	8 ¹⁰	21 ⁵⁵	19 ¹⁹ 17	3 ¹⁹ 20	29 ²⁹ 12	0 ¹⁹ 33	25 ¹⁰	16 ¹³	F 21
S 22	8 4 48	1 ⁴⁵ 2'1	22 ⁰	4 ¹³	22 ¹²	29 ⁵	20 ¹⁰	8 ¹²	21 ⁵⁷	19 ¹⁹ 16	3 ¹⁹ 20	29 ²⁹ 13	0 ¹⁹ 30	25 ¹⁷	16 ¹⁹	S 22
S 23	8 8 45	2 ⁴⁶ 2'5	6 ¹⁷ 2	2 ⁵⁷	23 ²⁷	29 ⁴⁸	20 ¹⁷	8 ¹⁵	21 ⁵⁸	19 ¹⁹ 15	3 ¹⁹ 20	29 ²⁹ R13	0 ¹⁹ 27	25 ²⁴	16 ²⁵	S 23
M24	8 12 41	3 ⁴⁷ 2'7	20 ¹⁵	1 ³⁹	24 ⁴³	0 ³² 15	20 ²⁵	8 ¹⁷	21 ⁵⁹	19 ¹⁹ 14	3 ¹⁹ 20	29 ²⁹ 13	0 ¹⁹ 24	25 ³⁰	16 ³¹	M24
T 25	8 16 38	4 ⁴⁸ 3'0	4 ¹⁷ 37	0 ²³	25 ⁵⁸	1 ¹⁵	20 ³²	8 ²⁰	22 ⁰	19 ¹⁹ 13	3 ¹⁹ 21	29 ²⁹ 10	0 ¹⁹ 20	25 ³⁷	16 ³⁶	T 25
W26	8 20 34	5 ⁴⁹ 3'2	19 ⁵	29 ³ 10	27 ¹³	1 ⁵⁹	20 ⁴⁰	8 ²²	22 ¹	19 ¹⁹ 12	3 ¹⁹ 21	29 ²⁹ 7	0 ¹⁹ 17	25 ⁴⁴	16 ⁴²	W26
T 27	8 24 31	6 ⁵⁰ 3'4	3 ³³ 33	28 ³	28 ²⁹	2 ⁴³	20 ⁴⁷	8 ²⁴	22 ³	19 ¹⁹ 11	3 ¹⁹ 21	29 ²⁹ 4	0 ¹⁹ 14	25 ⁵¹	16 ⁴⁸	T 27
F 28	8 28 27	7 ⁵¹ 3'5	17 ⁵⁶	27 ²	29 ⁴⁴	3 ²⁶	20 ⁵⁴	8 ²⁶	22 ⁴	19 ¹⁹ 9	3 ¹⁹ 21	29 ²⁹ 1	0 ¹⁹ 11	25 ⁵⁷	16 ⁵³	F 28
S 29	8 32 24	8 ⁵² 3'5	2 ²² 8	26 ⁹	0 ⁵⁹ 59	4 ¹⁰	21 ¹	8 ²⁸	22 ⁶	19 ¹⁹ 8	3 ¹⁹ 21	28 ⁵⁹	0 ¹⁹ 8	26 ⁴	16 ⁵⁹	S 29
S 30	8 36 20	9 ⁵³ 3'5	16 ⁵	25 ²⁴	2 ¹⁵	4 ⁵⁴	21 ⁷	8 ³⁰	22 ⁷	19 ¹⁹ 7	3 ¹⁹ 22	28 ⁵⁷	0 ¹⁹ 5	26 ¹¹	17 ⁴	S 30
M31	8 40 17	10 ⁵⁴ 3'3	29 ²² 43	24 ³ 48	3 ³⁰ 30	5 ³ 37	21 ¹¹ 14	8 ¹⁷ 32	22 ¹⁷ 9	19 ¹⁹ 6	3 ¹⁸ 22	28 ⁵⁷ D57	0 ¹⁹ 1	26 ¹⁸	17 ¹⁰	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	23s 1	24s16	3s 1	22s17	1s49	23s 3	0n18	22s37	0s 9	15s54	1n 3	11s36	2n22	7n55	0s36	5n 5
S 2	22 56	20 3	1 54	21 53	1 43	23 8	0 16	22 43	0 10	15 57	1 3	11 37	2 22	7 55	0 36	5 6
M 3	22 51	14 51	0 43	21 29	1 36	23 12	0 13	22 48	0 10	15 59	1 3	11 38	2 22	7 55	0 36	5 6
T 4	22 45	9 7	0n29	21 4	1 28	23 15	0 11	22 53	0 11	16 2	1 3	11 39	2 23	7 55	0 36	5 6
W 5	22 39	3 10	1 37	20 38	1 19	23 17	0 8	22 58	0 12	16 5	1 4	11 40	2 23	7 55	0 36	5 6
T 6	22 32	2n44	2 39	20 12	1 9	23 19	0 6	23 3	0 12	16 7	1 4	11 42	2 23	7 55	0 36	5 7
F 7	22 25	8 23	3 32	19 45	0 58	23 20	0 3	23 8	0 13	16 10	1 4	11 43	2 23	7 55	0 36	5 7
S 8	22 17	13 37	4 14	19 19	0 46	23 20	0 1	23 12	0 14	16 12	1 4	11 44	2 23	7 55	0 36	5 7
S 9	22 9	18 18	4 45	18 53	0 33	23 19	0s 2	23 16	0 14	16 15	1 4	11 45	2 24	7 56	0 36	5 7
M10	22 0	22 16	5 4	18 28	0 18	23 18	0 4	23 20	0 15	16 17	1 4	11 46	2 24	7 56	0 36	5 8
T 11	21 51	25 19	5 9	18 3	0 3	23 16	0 7	23 24	0 16	16 20	1 4	11 47	2 24	7 56	0 36	5 8
W12	21 42	27 17	5 2	17 40	0n13	23 14	0 9	23 27	0 16	16 22	1 4	11 48	2 24	7 56	0 36	5 8
T 13	21 32	28 0	4 40	17 19	0 30	23 10	0 11	23 30	0 17	16 24	1 4	11 49	2 24	7 57	0 35	5 8
F 14	21 22	27 20	4 6	17 0	0 48	23 6	0 14	23 33	0 18	16 27	1 5	11 49	2 25	7 57	0 35	5 9
S 15	21 11	25 19	3 20	16 44	1 6	23 1	0 16	23 36	0 18	16 29	1 5	11 50	2 25	7 57	0 35	5 9
S 16	21 0	22 1	2 22	16 30	1 25	22 56	0 19	23 39	0 19	16 31	1 5	11 51	2 25	7 58	0 35	5 10
M17	20 49	17 36	1 17	16 19	1 44	22 50	0 21	23 41	0 20	16 33	1 5	11 52	2 25	7 58	0 35	5 10
T 18	20 37	12 19	0 7	16 12	2 2	22 43	0 23	23 43	0 20	16 35	1 5	11 53	2 26	7 58	0 35	5 10
W19	20 25	6 24	1s 5	16 7	2 20	22 35	0 26	23 45	0 21	16 37	1 5	11 53	2 26	7 59	0 35	5 11
T 20	20 12	0 7	2 15	16 6	2 36	22 27	0 28	23 46	0 22	16 39	1 5	11 54	2 26	7 59	0 35	5 11
F 21	19 59	6s16	3 18	16 8	2 51	22 18	0 30	23 48	0 23	16 41	1 5	11 55	2 26	8 0	0 35	5 11
S 22	19 46	12 26	4 10	16 13	3 4	22 8	0 33	23 49	0 23	16 43	1 6	11 55	2 27	8 0	0 35	5 12
S 23	19 32	18 4	4 49	16 20	3 15	21 58	0 35	23 50	0 24	16 45	1 6	11 56	2 27	8 0	0 35	5 12
M24	19 18	22 46	5 10	16 29	3 23	21 47	0 37	23 50	0 25	16 47	1 6	11 56	2 27	8 1	0 35	5 13
T 25	19 3	26 10	5 12	16 39	3 29	21 35	0 39	23 51	0 25	16 49	1 6	11 57	2 27	8 1	0 35	5 13
W26	18 48	27 53	4 55	16 51	3 32	21 23	0 41	23 51	0 26	16 51	1 6	11 57	2 28	8 2	0 35	5 14
T 27	18 33	27 42	4 19	17 4	3 33	21 10	0 43	23 51	0 27	16 53	1 6	11 58	2 28	8 3	0 35	5 14
F 28	18 18	25 39	3 27	17 17	3 31	20 56	0 45	23 50	0 27	16 54	1 6	11 58	2 28	8 3	0 35	5 15

ASTRODIENST EPHEMERIS for the year 2101
geocentric

FEBRUARY 2101

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 44 14	11 ⁵⁵ 30	12 ⁵⁹ 59	24 ²¹ R21	4 ⁴⁴ 45	6 ²¹ 21	21 ¹¹ 20	8 ¹¹ 33	22 ¹¹ 10	19 ¹⁹ 5	3 ²² 22	28 ⁵⁷ 57	29 ⁵⁸ 58	26 ²⁴ 24	17 ¹⁵ 15	T 1
W 2	8 48 10	12 ⁵⁶ 26	25 ⁵⁴ 54	24 ²³ 3	6 ¹ 1	7 ⁵ 5	21 ²⁷ 27	8 ³⁵ 35	22 ¹² 12	19 ¹⁹ 3	3 ²³ 23	28 ⁵⁸ 58	29 ⁵⁵ 55	26 ³¹ 31	17 ²⁰ 20	W 2
T 3	8 52 7	13 ⁵⁷ 21	8 ¹¹ 29	23 ⁵³ 53	7 ¹⁶ 16	7 ⁴⁹ 49	21 ³³ 33	8 ³⁶ 36	22 ¹⁴ 14	19 ² 2	3 ²³ 23	29 ⁰ 0	29 ⁵² 52	26 ³⁸ 38	17 ²⁵ 25	T 3
F 4	8 56 3	14 ⁵⁸ 15	20 ⁴⁸ 48	23 ^{D52} 52	8 ³¹ 31	8 ³³ 33	21 ³⁹ 39	8 ³⁸ 38	22 ¹⁵ 15	19 ¹ 1	3 ²³ 23	29 ¹ 1	29 ⁴⁹ 49	26 ⁴⁴ 44	17 ³⁰ 30	F 4
S 5	9 0 0	15 ⁵⁹ 07	2 ⁵³ 53	23 ⁵⁷ 57	9 ⁴⁷ 47	9 ¹⁷ 17	21 ⁴⁴ 44	8 ³⁹ 39	22 ¹⁷ 17	18 ⁵⁹ 59	3 ²⁴ 24	29 ² 2	29 ⁴⁵ 45	26 ⁵¹ 51	17 ³⁶ 36	S 5
S 6	9 3 56	16 ⁵⁹ 58	14 ⁵⁰ 50	24 ¹⁰ 10	11 ² 2	10 ¹ 1	21 ⁵⁰ 50	8 ⁴⁰ 40	22 ¹⁹ 19	18 ⁵⁸ 58	3 ²⁴ 24	29 ^{R 2} 2	29 ⁴² 42	26 ⁵⁸ 58	17 ⁴⁰ 40	S 6
M 7	9 7 53	18 ⁰ 48	26 ⁴² 42	24 ²⁹ 29	12 ¹⁷ 17	10 ⁴⁵ 45	21 ⁵⁵ 55	8 ⁴¹ 41	22 ²¹ 21	18 ⁵⁷ 57	3 ²⁵ 25	29 ² 2	29 ³⁹ 39	27 ⁵ 5	17 ⁴⁵ 45	M 7
T 8	9 11 49	19 ¹ 36	8 ¹¹ 36	24 ⁵⁴ 54	13 ³² 32	11 ²⁹ 29	22 ¹ 1	8 ⁴² 42	22 ²³ 23	18 ⁵⁵ 55	3 ²⁵ 25	29 ¹ 1	29 ³⁶ 36	27 ¹¹ 11	17 ⁵⁰ 50	T 8
W 9	9 15 46	20 ² 23	20 ³⁴ 34	25 ²⁵ 25	14 ⁴⁸ 48	12 ¹³ 13	22 ⁶ 6	8 ⁴³ 43	22 ²⁵ 25	18 ⁵⁴ 54	3 ²⁶ 26	29 ⁰ 0	29 ³³ 33	27 ¹⁸ 18	17 ⁵⁵ 55	W 9
T 10	9 19 43	21 ³ 08	2 ⁵⁴ 54	26 ⁰ 0	16 ³ 3	12 ⁵⁷ 57	22 ¹¹ 11	8 ⁴⁴ 44	22 ²⁷ 27	18 ⁵³ 53	3 ²⁶ 26	28 ⁵⁹ 59	29 ³⁰ 30	27 ²⁵ 25	18 ⁰ 0	T 10
F 11	9 23 39	22 ³ 52	15 ³ 3	26 ⁴¹ 41	17 ¹⁸ 18	13 ⁴¹ 41	22 ¹⁶ 16	8 ⁴⁴ 44	22 ²⁹ 29	18 ⁵¹ 51	3 ²⁷ 27	28 ⁵⁸ 58	29 ²⁶ 26	27 ³² 32	18 ⁴ 4	F 11
S 12	9 27 36	23 ⁴ 34	27 ³⁹ 39	27 ²⁵ 25	18 ³³ 33	14 ²⁵ 25	22 ²⁰ 20	8 ⁴⁵ 45	22 ³¹ 31	18 ⁵⁰ 50	3 ²⁷ 27	28 ⁵⁷ 57	29 ²³ 23	27 ³⁸ 38	18 ⁹ 9	S 12
S 13	9 31 32	24 ⁵ 15	10 ³² 32	28 ¹³ 13	19 ⁴⁹ 49	15 ⁹ 9	22 ²⁵ 25	8 ⁴⁵ 45	22 ³³ 33	18 ⁴⁸ 48	3 ²⁸ 28	28 ⁵⁷ 57	29 ²⁰ 20	27 ⁴⁵ 45	18 ¹³ 13	S 13
M14	9 35 29	25 ⁵ 55	23 ⁴² 42	29 ⁵ 5	21 ⁴ 4	15 ⁵⁴ 54	22 ²⁹ 29	8 ⁴⁶ 46	22 ³⁵ 35	18 ⁴⁷ 47	3 ²⁹ 29	28 ^{D57} 57	29 ¹⁷ 17	27 ⁵² 52	18 ¹⁷ 17	M14
T 15	9 39 25	26 ⁶ 33	7 ¹¹ 8	0 ⁸ 0	22 ¹⁹ 19	16 ³⁸ 38	22 ³³ 33	8 ⁴⁶ 46	22 ³⁷ 37	18 ⁴⁵ 45	3 ²⁹ 29	28 ⁵⁷ 57	29 ¹⁴ 14	27 ⁵⁸ 58	18 ²² 22	T 15
W16	9 43 22	27 ⁷ 09	20 ⁴⁸ 48	0 ⁵⁹ 59	23 ³⁴ 34	17 ²² 22	22 ³⁷ 37	8 ^{R46} 46	22 ³⁹ 39	18 ⁴⁴ 44	3 ³⁰ 30	28 ⁵⁷ 57	29 ¹¹ 11	28 ⁵ 5	18 ²⁶ 26	W16
T 17	9 47 18	28 ⁷ 45	4 ⁴¹ 41	1 ⁵⁹ 59	24 ⁴⁹ 49	18 ⁷ 7	22 ⁴¹ 41	8 ⁴⁶ 46	22 ⁴² 42	18 ⁴² 42	3 ³⁰ 30	28 ⁵⁷ 57	29 ⁷ 7	28 ¹² 12	18 ³⁰ 30	T 17
F 18	9 51 15	29 ⁸ 19	18 ⁴³ 43	3 ³ 3	26 ⁵ 5	18 ⁵¹ 51	22 ⁴⁵ 45	8 ⁴⁶ 46	22 ⁴⁴ 44	18 ⁴¹ 41	3 ³¹ 31	28 ^{R57} 57	29 ⁴ 4	28 ¹⁹ 19	18 ³⁴ 34	F 18
S 19	9 55 12	0 ⁸ 52	2 ¹¹ 51	4 ⁹ 9	27 ²⁰ 20	19 ³⁵ 35	22 ⁴⁸ 48	8 ⁴⁵ 45	22 ⁴⁶ 46	18 ³⁹ 39	3 ³² 32	28 ⁵⁷ 57	29 ¹ 1	28 ²⁵ 25	18 ³⁸ 38	S 19
S 20	9 59 8	1 ⁹ 23	17 ³ 3	5 ¹⁷ 17	28 ³⁵ 35	20 ²⁰ 20	22 ⁵² 52	8 ⁴⁵ 45	22 ⁴⁹ 49	18 ³⁷ 37	3 ³² 32	28 ⁵⁷ 57	28 ⁵⁸ 58	28 ³² 32	18 ⁴² 42	S 20
M21	10 3 5	2 ⁹ 54	1 ¹¹ 16	6 ²⁷ 27	29 ⁵⁰ 50	21 ⁴ 4	22 ⁵⁵ 55	8 ⁴⁵ 45	22 ⁵¹ 51	18 ³⁶ 36	3 ³³ 33	28 ^{D57} 57	28 ⁵⁵ 55	28 ³⁹ 39	18 ⁴⁵ 45	M21
T 22	10 7 1	3 ¹⁰ 23	15 ²⁷ 27	7 ³⁹ 39	1 ¹¹ 5	21 ⁴⁹ 49	22 ⁵⁸ 58	8 ⁴⁴ 44	22 ⁵⁴ 54	18 ³⁴ 34	3 ³⁴ 34	28 ⁵⁷ 57	28 ⁵¹ 51	28 ⁴⁵ 45	18 ⁴⁹ 49	T 22
W23	10 10 58	4 ¹⁰ 51	29 ³⁴ 34	8 ⁵² 52	2 ²⁰ 20	22 ³³ 33	23 ¹ 1	8 ⁴⁴ 44	22 ⁵⁶ 56	18 ³³ 33	3 ³⁵ 35	28 ⁵⁷ 57	28 ⁴⁸ 48	28 ⁵² 52	18 ⁵³ 53	W23
T 24	10 14 54	5 ¹¹ 18	13 ³⁵ 35	10 ⁸ 8	3 ³⁵ 35	23 ¹⁸ 18	23 ³ 3	8 ⁴³ 43	22 ⁵⁹ 59	18 ³¹ 31	3 ³⁶ 36	28 ⁵⁸ 58	28 ⁴⁵ 45	28 ⁵⁹ 59	18 ⁵⁶ 56	T 24
F 25	10 18 51	6 ¹¹ 44	27 ²⁹ 29	11 ²⁵ 25	4 ⁵⁰ 50	24 ² 2	23 ⁶ 6	8 ⁴² 42	23 ¹ 1	18 ³⁰ 30	3 ³⁶ 36	28 ⁵⁸ 58	28 ⁴² 42	29 ⁶ 6	18 ⁵⁹ 59	F 25
S 26	10 22 47	7 ¹² 08	11 ¹¹ 11	12 ⁴⁴ 44	6 ⁶ 6	24 ⁴⁷ 47	23 ⁸ 8	8 ⁴¹ 41	23 ⁴ 4	18 ²⁸ 28	3 ³⁷ 37	28 ⁵⁹ 59	28 ³⁹ 39	29 ¹² 12	19 ³ 3	S 26
S 27	10 26 44	8 ¹² 30	24 ⁴² 42	14 ⁴ 4	7 ²¹ 21	25 ³² 32	23 ¹⁰ 10	8 ⁴⁰ 40	23 ⁷ 7	18 ²⁶ 26	3 ³⁸ 38	28 ^{R59} 59	28 ³⁶ 36	29 ¹⁹ 19	19 ⁶ 6	S 27
M28	10 30 41	9 ¹² 51	7 ¹¹ 59	15 ²⁵ 25	8 ¹¹ 36	26 ¹⁶ 16	23 ¹¹ 12	8 ¹¹ 39	23 ¹¹ 9	18 ²⁵ 25	3 ³⁹ 39	28 ⁵⁹ 59	28 ³² 32	29 ¹⁶ 16	19 ¹¹ 11	M28

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	17s12	5s30	1n17	18s 9	3n 8	19s56	0s53	23s47	0s30	17s 1	1n 7	12s 0	2n29	8n 5	0s35	5n17	1n 2	3s 6	16s41	11s50	11s29	24n20	18s24	4n26	
W 2	16 55	0n34	2 23	18 21	2 59	19 39	0 55	23 45	0 31	17 2	1 7	12 0	2 29	8 6	0 35	5 17	1 2	3 5	16 41	11 50	11 30	24 21	18 24	4 27	
T 3	16 38	6 27	3 21	18 33	2 49	19 22	0 57	23 44	0 32	17 4	1 7	12 0	2 30	8 7	0 35	5 18	1 2	3 5	16 40	11 49	11 31	24 23	18 24	4 27	
F 4	16 20	11 57	4 9	18 43	2 38	19 4	0 59	23 42	0 32	17 5	1 7	12 0	2 30	8 7	0 35	5 18	1 2	3 4	16 40	11 49	11 32	24 25	18 24	4 28	
S 5	16 2	16 55	4 44	18 53	2 27	18 46	1 0	23 39	0 33	17 6	1 8	12 1	2 30	8 8	0 35	5 19	1 2	3 4	16 40	11 48	11 33	24 26	18 24	4 28	
S 6	15 44	21 9	5 7	19 2	2 16	18 27	1 2	23 37	0 34	17 8	1 8	12 1	2 30	8 9	0 35	5 19	1 2	3 3	16 39	11 48	11 34	24 28	18 24	4 29	
M 7	15 25	24 32	5 16	19 10	2 5	18 7	1 4	23 34	0 35	17 9	1 8	12 1	2 31	8 10	0 35	5 20	1 2	3 3	16 39	11 48	11 35	24 30	18 23	4 30	
T 8	15 7	26 52	5 12	19 17	1 53	17 48	1 5	23 31	0 35	17 10	1 8	12 1	2 31	8 10	0 35	5 20	1 3	3 2	16 39	11 49	11 36	24 31	18 23	4 30	
W 9	14 48	27 59	4 54	19 23	1 42	17 27	1 7	23 28	0 36	17 11	1 8	12 1	2 31	8 11	0 35	5 21	1 3	3 2	16 38	11 49	11 38	24 33	18 23	4 31	
T 10	14 28	27 47	4 23	19 28	1 30	17 6	1 8	23 25	0 37	17 12	1 8	12 1	2 31	8 12	0 35	5 22	1 3	3 1	16 38	11 49	11 39	24 35	18 23	4 31	
F 11	14 9	26 13	3 40	19 31	1 19	16 45	1 10	23 21	0 38	17 13	1 8	12 1	2 32	8 13	0 34	5 22	1 3	3 1	16 38	11 50	11 40	24 36	18 23	4 32	
S 12	13 49	23 19	2 45	19 34	1 7	16 23	1 11	23 17	0 38	17 14	1 9	12 1	2 32	8 13	0 34	5 23	1 3	3 0	16 37	11 50	11 41	24 38	18 23	4 32	
S 13	13 29	19 12	1 40	19 35	0 56	16 1	1 12	23 13	0 39	17 15	1 9	12 1	2 32	8 14	0 34	5 23	1 3	3 0	16 37	11 50	11 42	24 39	18 22	4 33	
M14	13 9	14 4	0 29	19 36	0 45	15 38	1 14	23 8	0 40	17 16	1 9	12 0	2 32	8 15	0 34	5 24	1 3	2 59	16 37	11 50	11 43	24 41	18 22	4 34	
T 15	12 49	8 11	0s45	19 35	0 35	15 15	1 15	23 4	0 40	17 17	1 9	12 0	2 33	8 16	0 34	5 25	1 3	2 59	16 36	11 50	11 44	24 43	18 22	4 34	
W16	12 28	1 50	1 58	19 32	0 24	14 51	1 16	22 59	0 41	17 18	1 9	12 0	2 33	8 17	0 34	5 25	1 3	2 58	16 36	11 50	11 45	24 44	18 22	4 35	
T 17	12 7	4s42	3 5	19 29	0 14	14 27	1 17	22 54	0 42	17 19	1 9	12 0	2 33	8 18	0 34	5 26	1 3	2 58	16 36	11 50	11 46	24 46	18 22	4 35	
F 18	11 46	11 4	4 2	19 24	0 4	14 3	1 18	22 48	0 43	17 20	1 10	12 0	2 33	8 19	0 34	5 26	1 3	2 57	16 35	11 50	11 48	24 47	18 21	4 36	
S 19	11 25	16 55	4 45	19 18	0s 5	13 38	1 19	22 43	0 43	17 21	1 10	11 59	2 33	8 19	0 34	5 27	1 3	2 57	16 35	11 50	11 49	24 49	18 21	4 36	
S 20	11 4	21 52	5 10	19 11	0 15	13 13	1 20	22 37	0 44	17 21	1 10	11 59	2 34	8 20	0 34	5 28	1 3	2 56	16 35	11 50	11 50	24 50	18 21	4 37	
M21	10 42	25 34	5 17	19 2	0 24	12 47	1 21	22 31	0 45	17 22	1 10	11 59	2 34	8 21	0 34	5 28	1 3	2 56	16 34	11 50	11 51	24 52	18 20	4 38	
T 22	10 20	27 40	5 4	18 52	0 32	12 21	1 22	22 25	0 46	17 22	1 10	11 58	2 34	8 22	0 34	5 29	1 3	2 55	16 34	11 50	11 52	24 53	18 20	4 38	
W23	9 58	27 59	4 33	18 41	0 41	11 55	1 22	22 18	0 46	17 23	1 10	11 58	2 34	8 23	0 34	5 30	1 3	2 55	16 34	11 50	11 53	24 55	18 20	4 39	
T 24	9 36	26 29	3 46	18 29	0 49	11 29	1 23	22 11	0 47	17 23	1 10	11 57	2 35	8 24	0 34	5 30	1 3	2 54	16 33	11 50	11 54	24 56	18 19	4 40	
F 25	9 14	23 22	2 46	18 15	0 56	11 2	1 24	22 4	0 48	17 24	1 11	11 57	2 35	8 25	0 34	5 31	1 3	2 54	16 33	11 50	11 55	24 58	18 19	4 40	
S 26	8 52	18 58	1 37	18 0	1 4	10 35	1 24	21 57	0 48	17 24	1 11	11 56	2 35	8 26	0 34	5 32	1 3	2 53	16 33	11 49	11 56	24 59	18 19	4 41	
S 27	8 29	13 39	0 24	17 44	1 11	10 7	1 25	21 50	0 49	17 25	1 11	11 56	2 35	8 27	0 34	5 32	1 3	2 52	16 33	11 49	11 57	25 1	18 18	4 41	
M28	8s 7	7s48	0n50	17s26	1s18	9s39	1s25	21s42	0s50	17s25	1n11	11s55	2n36	8n28	0s34	5n33	1n 3	2s52	16s32	11s49	11s59	25n 2	18s18	4n42	

ASTRODIENST EPHEMERIS for the year 2101
geocentric

MARCH 2101

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 34 37	10 ¹³ 09	21 ¹³ 1	16 ⁴⁸	9 ⁵¹	27 ¹	23 ¹³	8 ³⁸	23 ¹²	18 ²³	3 ⁴⁰	28 ⁵⁸	28 ²⁹	29 ³³	19 ¹²	T 1
W 2	10 38 34	11 ¹³ 27	3 ⁴⁷	18 ¹²	11 ⁶	27 ⁴⁶	23 ¹⁵	8 ³⁶	23 ¹⁵	18 ²¹	3 ⁴¹	28 ⁵⁷	28 ²⁶	29 ³⁹	19 ¹⁵	W 2
T 3	10 42 30	12 ¹³ 42	16 ¹⁸	19 ³⁷	12 ²¹	28 ³¹	23 ¹⁶	8 ³⁵	23 ¹⁷	18 ²⁰	3 ⁴²	28 ⁵⁵	28 ²³	29 ⁴⁶	19 ¹⁸	T 3
F 4	10 46 27	13 ¹³ 55	28 ³⁵	21 ⁴	13 ³⁶	29 ¹⁵	23 ¹⁷	8 ³³	23 ²⁰	18 ¹⁸	3 ⁴²	28 ⁵³	28 ²⁰	29 ⁵³	19 ²¹	F 4
S 5	10 50 23	14 ¹⁴ 07	10 ⁴⁰	22 ³²	14 ⁵¹	0 ⁰	23 ¹⁸	8 ³²	23 ²³	18 ¹⁶	3 ⁴³	28 ⁵¹	28 ¹⁷	29 ⁵⁹	19 ²³	S 5
S 6	10 54 20	15 ¹⁴ 16	22 ³⁸	24 ¹	16 ⁶	0 ⁴⁵	23 ¹⁹	8 ³⁰	23 ²⁶	18 ¹⁵	3 ⁴⁴	28 ⁴⁹	28 ¹³	0 ¹¹	19 ²⁶	S 6
M 7	10 58 16	16 ¹⁴ 23	4 ³¹	25 ³¹	17 ²¹	1 ³⁰	23 ¹⁹	8 ²⁸	23 ²⁹	18 ¹³	3 ⁴⁵	28 ⁴⁸	28 ¹⁰	0 ¹³	19 ²⁸	M 7
T 8	11 2 13	17 ¹⁴ 29	16 ²⁴	27 ²	18 ³⁶	2 ¹⁵	23 ²⁰	8 ²⁶	23 ³²	18 ¹¹	3 ⁴⁶	28 ⁴⁷	28 ⁷	0 ²⁰	19 ³¹	T 8
W 9	11 6 10	18 ¹⁴ 32	28 ²¹	28 ³⁵	19 ⁵¹	2 ⁵⁹	23 ²⁰	8 ²⁴	23 ³⁵	18 ¹⁰	3 ⁴⁷	28 ⁴⁸	28 ⁴	0 ²⁶	19 ³³	W 9
T 10	11 10 6	19 ¹⁴ 33	10 ²⁸	0 ⁸	21 ⁵	3 ⁴⁴	23 ²⁰	8 ²²	23 ³⁸	18 ⁸	3 ⁴⁸	28 ⁴⁹	28 ¹	0 ³³	19 ³⁵	T 10
F 11	11 14 3	20 ¹⁴ 32	22 ⁵⁰	1 ⁴³	22 ²⁰	4 ²⁹	23 ²⁰	8 ²⁰	23 ⁴¹	18 ⁶	3 ⁴⁹	28 ⁵⁰	27 ⁵⁷	0 ⁴⁰	19 ³⁷	F 11
S 12	11 17 59	21 ¹⁴ 29	5 ²⁹	3 ¹⁹	23 ³⁵	5 ¹⁴	23 ¹⁹	8 ¹⁷	23 ⁴⁴	18 ⁵	3 ⁵⁰	28 ⁵²	27 ⁵⁴	0 ⁴⁷	19 ³⁹	S 12
S 13	11 21 56	22 ¹⁴ 24	18 ²⁹	4 ⁵⁶	24 ⁵⁰	5 ⁵⁹	23 ¹⁹	8 ¹⁵	23 ⁴⁷	18 ³	3 ⁵²	28 ⁵³	27 ⁵¹	0 ⁵³	19 ⁴¹	S 13
M14	11 25 52	23 ¹⁴ 16	1 ¹¹	6 ³⁴	26 ⁵	6 ⁴⁴	23 ¹⁸	8 ¹³	23 ⁵⁰	18 ¹	3 ⁵³	28 ⁵³	27 ⁴⁸	1 ⁰	19 ⁴³	M14
T 15	11 29 49	24 ¹⁴ 07	15 ³⁷	8 ¹³	27 ²⁰	7 ²⁹	23 ¹⁷	8 ¹⁰	23 ⁵³	18 ⁰	3 ⁵⁴	28 ⁵²	27 ⁴⁵	1 ⁷	19 ⁴⁴	T 15
W16	11 33 45	25 ¹³ 55	29 ⁴²	9 ⁵⁴	28 ³⁴	8 ¹⁴	23 ¹⁶	8 ⁷	23 ⁵⁶	17 ⁵⁸	3 ⁵⁵	28 ⁵⁰	27 ⁴²	1 ¹³	19 ⁴⁶	W16
T 17	11 37 42	26 ¹³ 42	14 ⁴	11 ³⁶	29 ⁴⁹	8 ⁵⁹	23 ¹⁴	8 ⁵	23 ⁵⁹	17 ⁵⁶	3 ⁵⁶	28 ⁴⁷	27 ³⁸	1 ²⁰	19 ⁴⁷	T 17
F 18	11 41 39	27 ¹³ 26	28 ³⁶	13 ¹⁹	1 ⁴	9 ⁴⁵	23 ¹³	8 ²	24 ²	17 ⁵⁵	3 ⁵⁷	28 ⁴³	27 ³⁵	1 ²⁷	19 ⁴⁹	F 18
S 19	11 45 35	28 ¹³ 09	13 ¹¹	15 ³	2 ¹⁹	10 ³⁰	23 ¹¹	7 ⁵⁹	24 ⁵	17 ⁵³	3 ⁵⁸	28 ³⁹	27 ³²	1 ³⁴	19 ⁵⁰	S 19
S 20	11 49 32	29 ¹² 51	27 ⁴⁶	16 ⁴⁸	3 ³³	11 ¹⁵	23 ⁹	7 ⁵⁶	24 ⁸	17 ⁵¹	3 ⁵⁹	28 ³⁵	27 ²⁹	1 ⁴⁰	19 ⁵¹	S 20
M21	11 53 28	0 ¹² 30	12 ¹¹	18 ³⁵	4 ⁴⁸	12 ⁰	23 ⁷	7 ⁵³	24 ¹²	17 ⁵⁰	4 ¹	28 ³²	27 ²⁶	1 ⁴⁷	19 ⁵²	M21
T 22	11 57 25	1 ¹² 08	26 ²⁵	20 ²²	6 ³	12 ⁴⁵	23 ⁵	7 ⁵⁰	24 ¹⁵	17 ⁴⁸	4 ²	28 ³¹	27 ²²	1 ⁵⁴	19 ⁵³	T 22
W23	12 1 21	2 ¹¹ 44	10 ²⁶	22 ¹¹	7 ¹⁷	13 ³⁰	23 ²	7 ⁴⁶	24 ¹⁸	17 ⁴⁷	4 ³	28 ³¹	27 ¹⁹	2 ⁰	19 ⁵⁴	W23
T 24	12 5 18	3 ¹¹ 19	24 ¹²	24 ²	8 ³²	14 ¹⁶	23 ⁰	7 ⁴³	24 ²¹	17 ⁴⁵	4 ⁴	28 ³²	27 ¹⁶	2 ⁷	19 ⁵⁵	T 24
F 25	12 9 14	4 ¹⁰ 52	7 ⁴³	25 ⁵³	9 ⁴⁷	15 ¹	22 ⁵⁷	7 ⁴⁰	24 ²⁵	17 ⁴³	4 ⁵	28 ³⁴	27 ¹³	2 ¹⁴	19 ⁵⁵	F 25
S 26	12 13 11	5 ¹⁰ 23	21 ¹	27 ⁴⁶	11 ¹	15 ⁴⁶	22 ⁵⁴	7 ³⁶	24 ²⁸	17 ⁴²	4 ⁷	28 ³⁵	27 ¹⁰	2 ²¹	19 ⁵⁶	S 26
S 27	12 17 8	6 ⁹ 52	4 ⁷	29 ⁴⁰	12 ¹⁶	16 ³¹	22 ⁵¹	7 ³³	24 ³¹	17 ⁴⁰	4 ⁸	28 ³⁵	27 ⁷	2 ²⁷	19 ⁵⁶	S 27
M28	12 21 4	7 ⁹ 19	17 ⁰	1 ³⁶	13 ³⁰	17 ¹⁷	22 ⁴⁸	7 ²⁹	24 ³⁴	17 ³⁹	4 ⁹	28 ³⁴	27 ³	2 ³⁴	19 ⁵⁷	M28
T 29	12 25 1	8 ⁸ 44	29 ⁴²	3 ³²	14 ⁴⁵	18 ²	22 ⁴⁴	7 ²⁶	24 ³⁸	17 ³⁷	4 ¹⁰	28 ³⁰	27 ⁰	2 ⁴¹	19 ⁵⁷	T 29
W30	12 28 57	9 ⁸ 07	12 ¹³	5 ³⁰	16 ⁰	18 ⁴⁷	22 ⁴⁰	7 ²²	24 ⁴¹	17 ³⁶	4 ¹²	28 ²⁴	26 ⁵⁷	2 ⁴⁸	19 ⁵⁷	W30
T 31	12 32 54	10 ⁷ 29	24 ³⁴	7 ²⁹	17 ¹⁴	19 ³³	22 ¹¹	7 ¹⁸	24 ⁴⁴	17 ³⁴	4 ¹³	28 ¹⁷	26 ⁵⁴	2 ⁵⁴	19 ⁵⁷	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
T 1	7s44	1s44	1n59	17s 8	1s24	9s12	1s25	21s34	0s51	17s25	1n11	11s55	2n36	8n29	0s34	5n33	1n 3	2s51	16s32	11s50	12s 0	25n 4	18s18	4n43					
W 2	7 21	4n16	3 1	16 48	1 30	8 43	1 26	21 26	0 51	17 25	1 11	11 54	2 36	8 30	0 34	5 34	1 3	2 51	16 32	11 50	12 1	25 5	18 17	4 43					
T 3	6 58	9 59	3 53	16 26	1 36	8 15	1 26	21 18	0 52	17 26	1 12	11 53	2 36	8 31	0 34	5 35	1 3	2 50	16 31	11 51	12 2	25 7	18 17	4 44					
F 4	6 35	15 12	4 33	16 4	1 41	7 46	1 26	21 9	0 53	17 26	1 12	11 53	2 37	8 32	0 34	5 35	1 3	2 50	16 31	11 51	12 3	25 8	18 16	4 45					
S 5	6 12	19 46	5 0	15 40	1 46	7 17	1 26	21 1	0 54	17 26	1 12	11 52	2 37	8 33	0 34	5 36	1 3	2 49	16 31	11 52	12 4	25 10	18 16	4 45					
S 6	5 49	23 28	5 14	15 15	1 50	6 48	1 26	20 52	0 54	17 26	1 12	11 51	2 37	8 34	0 34	5 37	1 3	2 49	16 31	11 53	12 5	25 11	18 15	4 46					
M 7	5 26	26 10	5 14	14 48	1 54	6 19	1 26	20 43	0 55	17 26	1 12	11 50	2 37	8 35	0 34	5 37	1 3	2 48	16 30	11 53	12 6	25 13	18 15	4 47					
T 8	5 2	27 43	5 1	14 21	1 58	5 50	1 26	20 33	0 56	17 26	1 12	11 49	2 37	8 37	0 34	5 38	1 3	2 47	16 30	11 53	12 7	25 14	18 14	4 47					
W 9	4 39	28 0	4 35	13 52	2 2	5 20	1 26	20 24	0 56	17 26	1 13	11 49	2 38	8 38	0 34	5 39	1 3	2 47	16 30	11 53	12 8	25 15	18 14	4 48					
T 10	4 15	26 56	3 56	13 22	2 5	4 51	1 26	20 14	0 57	17 25	1 13	11 48	2 38	8 39	0 34	5 39	1 3	2 46	16 30	11 53	12 10	25 17	18 13	4 49					
F 11	3 52	24 33	3 6	12 50	2 7	4 21	1 25	20 4	0 58	17 25	1 13	11 47	2 38	8 40	0 34	5 40	1 3	2 46	16 29	11 52	12 11	25 18	18 13	4 49					
S 12	3 28	20 55	2 5	12 18	2 9	3 51	1 25	19 54	0 59	17 25	1 13	11 46	2 38	8 41	0 34	5 41	1 3	2 45	16 29	11 52	12 12	25 20	18 12	4 50					
S 13	3 5	16 11	0 57	11 44	2 11	3 21	1 25	19 43	0 59	17 25	1 13	11 45	2 38	8 42	0 34	5 41	1 3	2 45	16 29	11 51	12 13	25 21	18 12	4 51					
M14	2 41	10 33	0s16	11 9	2 13	2 51	1 24	19 33	1 0	17 24	1 13	11 44	2 39	8 43	0 34	5 42	1 3	2 44	16 29	11 51	12 14	25 22	18 11	4 51					
T 15	2 17	4 17	1 31	10 33	2 14	2 21	1 24	19 22	1 1	17 24	1 13	11 43	2 39	8 44	0 34	5 43	1 3	2 43	16 28	11 52	12 15	25 24	18 11	4 52					
W16	1 54	2s21	2 41	9 55	2 14	1 50	1 23	19 11	1 1	17 24	1 14	11 42	2 39	8 46	0 34	5 43	1 3	2 43	16 28	11 52	12 16	25 25	18 10	4 53					
T 17	1 30	8 58	3 43	9 17	2 14	1 20	1 22	19 0	1 2	17 23	1 14	11 41	2 39	8 47	0 34	5 44	1 3	2 42	16 28	11 54	12 17	25 27	18 10	4 53					
F 18	1 6	15 11	4 31	8 37	2 14	0 50	1 22	18 49	1 3	17 23	1 14	11 40	2 39	8 48	0 34	5 45	1 3	2 42	16 28	11 55	12 18	25 28	18 9	4 54					
S 19	0 42	20 34	5 1	7 56	2 13	0 19	1 21	18 37	1 4	17 22	1 14	11 39	2 40	8 49	0 34	5 45	1 3	2 41	16 27	11 56	12 19	25 29	18 8	4 55					
S 20	0 19	24 43	5 12	7 14	2 12	0n11	1 20	18 26	1 4	17 21	1 14	11 38	2 40	8 50	0 34	5 46	1 3	2 41	16 27	11 58	12 21	25 31	18 8	4 55					
M21	0n 5	27 15	5 4	6 31	2 10	0 42	1 19	18 14	1 5	17 21	1 14	11 36	2 40	8 51	0 34	5 47	1 3	2 40	16 27	11 59	12 22	25 32	18 7	4 56					
T 22	0 29	27 59	4 36	5 46	2 8	1 12	1 18	18 2	1 6	17 20	1 14	11 35	2 40	8 53	0 34	5 47	1 3	2 40	16 27	11 59	12 23	25 33	18 7	4 57					
W23	0 52	26 53	3 53	5 1	2 5	1 43	1 17	17 49	1 6	17 19	1 15	11 34	2 40	8 54	0 34	5 48	1 3	2 39	16 27	11 59	12 24	25 35	18 6	4 57					
T 24	1 16	24 10	2 56	4 14	2 2	2 13	1 16	17 37	1 7	17 19	1 15	11 33	2 40	8 55	0 33	5 48	1 3	2 38	16 26	11 59	12 25	25 36	18 5	4 58					
F 25	1 40	20 7	1 51	3 26	1 58	2 43	1 15	17 24	1 8	17 18	1 15	11 32	2 41	8 56	0 33	5 49	1 3	2 38	16 26	11 58	12 26	25 37	18 5	4 59					
S 26	2 3	15 8	0 41	2 37	1 54	3 14	1 14	17 12	1 9	17 17	1 15	11 30	2 41	8 57	0 33	5 50	1 3	2 37	16 26	11 58	12 27	25 38	18 4	4 59					
S 27	2 27	9 32	0n30	1 48	1 49	3 44	1 12	16 59	1 9	17 16	1 15	11 29	2 41	8 59	0 33	5 50	1 3	2 37	16 26	11 58	12 28	25 40	18 4	5 0					
M28	2 50	3 37	1 38	0 57	1 44	4 14	1 11	16 46	1 10	17 15	1 15	11 28	2 41	9 0	0 33	5 51	1 3	2 36	16 26	11 58	12 29	25 41	18 3	5 1					
T 29	3 14	2n20	2 41	0 5	1 38	4 44	1 10	16 32	1 11	17 14	1 15	11 27	2 41	9 1	0 33	5 52	1 3	2 36	16 26	11 59	12 30	25 42	18 2	5 2					
W30	3 37	8 7	3 34	0n47	1 31	5 14	1 8	16 19	1 11	17 13	1 15	11 25	2 41	9 2	0 33	5 52	1 3	2 35	16 25	12 1	12 31	25 44	18 2	5 2					
T 31	4n 0	13n29	4n17	1n41	1s25	5n44	1s 7	16s 5	1s12	17s12	1n16	11s24	2n41	9n 4	0s33	5n53	1n 3	2s35	16s25	12s 4	12s32	25n45	18s 1	5n 3					

ASTRODIENST EPHEMERIS for the year 2101
geocentric

APRIL 2101

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 36 50	11° 6' 48"	6° 8' 44"	9° 29' 29"	18° 29' 29"	20° 18' 18"	22° 18' 32"	7° 18' 14"	24° 48' 48"	17° 18' 33"	4° 18' 14"	28° 18' 9"	26° 51' 51"	3° 18' 11"	19° 18' 57"	F 1
S 2	12 40 47	12° 6' 05"	18° 46' 46"	11° 30' 30"	19° 43' 43"	21° 3' 3"	22° 18' 28"	7° 18' 11"	24° 51' 51"	17° 18' 31"	4° 15' 15"	28° 18' 1"	26° 48' 48"	3° 8' 8"	19° 18' 57"	S 2
S 3	12 44 43	13° 5' 20"	0° 12' 42"	13° 32' 32"	20° 57' 57"	21° 49' 49"	22° 24' 24"	7° 7' 7"	24° 55' 55"	17° 30' 30"	4° 17' 17"	27° 53' 53"	26° 44' 44"	3° 14' 14"	19° 57' 57"	S 3
M 4	12 48 40	14° 4' 32"	12° 34' 34"	15° 35' 35"	22° 12' 12"	22° 34' 34"	22° 19' 19"	7° 3' 3"	24° 58' 58"	17° 28' 28"	4° 18' 18"	27° 47' 47"	26° 41' 41"	3° 21' 21"	19° 57' 57"	M 4
T 5	12 52 36	15° 3' 43"	24° 25' 25"	17° 39' 39"	23° 26' 26"	23° 19' 19"	22° 15' 15"	6° 59' 59"	25° 1' 1"	17° 27' 27"	4° 19' 19"	27° 43' 43"	26° 38' 38"	3° 28' 28"	19° 56' 56"	T 5
W 6	12 56 33	16° 2' 51"	6° 21' 21"	19° 43' 43"	24° 41' 41"	24° 5' 5"	22° 10' 10"	6° 55' 55"	25° 5' 5"	17° 25' 25"	4° 21' 21"	27° 40' 40"	26° 35' 35"	3° 35' 35"	19° 56' 56"	W 6
T 7	13 0 30	17° 1' 57"	18° 25' 25"	21° 47' 47"	25° 55' 55"	24° 50' 50"	22° 5' 5"	6° 50' 50"	25° 8' 8"	17° 24' 24"	4° 22' 22"	27° 40' 40"	26° 32' 32"	3° 41' 41"	19° 55' 55"	T 7
F 8	13 4 26	18° 1' 00"	0° 12' 43"	23° 52' 52"	27° 9' 9"	25° 36' 36"	22° 0' 0"	6° 46' 46"	25° 12' 12"	17° 22' 22"	4° 23' 23"	27° 40' 40"	26° 28' 28"	3° 48' 48"	19° 54' 54"	F 8
S 9	13 8 23	19° 0' 02"	13° 20' 20"	25° 56' 56"	28° 24' 24"	26° 21' 21"	21° 55' 55"	6° 42' 42"	25° 15' 15"	17° 21' 21"	4° 25' 25"	27° 42' 42"	26° 25' 25"	3° 55' 55"	19° 53' 53"	S 9
S 10	13 12 19	19° 59' 01"	26° 19' 19"	28° 0' 0"	29° 38' 38"	27° 6' 6"	21° 49' 49"	6° 38' 38"	25° 18' 18"	17° 20' 20"	4° 26' 26"	27° 42' 42"	26° 22' 22"	4° 1' 1"	19° 52' 52"	S 10
M 11	13 16 16	20° 57' 57"	9° 14' 45"	0° 8' 3"	0° 52' 52"	27° 52' 52"	21° 44' 44"	6° 34' 34"	25° 22' 22"	17° 18' 18"	4° 27' 27"	27° 42' 42"	26° 19' 19"	4° 8' 8"	19° 51' 51"	M 11
T 12	13 20 12	21° 56' 51"	23° 38' 38"	2° 5' 5"	2° 6' 6"	28° 37' 37"	21° 38' 38"	6° 29' 29"	25° 25' 25"	17° 17' 17"	4° 29' 29"	27° 39' 39"	26° 16' 16"	4° 15' 15"	19° 50' 50"	T 12
W 13	13 24 9	22° 55' 44"	7° 15' 58"	4° 6' 6"	3° 21' 21"	29° 23' 23"	21° 32' 32"	6° 25' 25"	25° 29' 29"	17° 16' 16"	4° 30' 30"	27° 34' 34"	26° 13' 13"	4° 22' 22"	19° 49' 49"	W 13
T 14	13 28 5	23° 54' 34"	22° 39' 39"	6° 4' 4"	4° 35' 35"	0° 8' 8"	21° 26' 26"	6° 21' 21"	25° 32' 32"	17° 15' 15"	4° 31' 31"	27° 27' 27"	26° 9' 9"	4° 28' 28"	19° 48' 48"	T 14
F 15	13 32 2	24° 53' 22"	7° 13' 36"	8° 1' 1"	5° 49' 49"	0° 53' 53"	21° 20' 20"	6° 16' 16"	25° 36' 36"	17° 13' 13"	4° 33' 33"	27° 18' 18"	26° 6' 6"	4° 35' 35"	19° 46' 46"	F 15
S 16	13 35 59	25° 52' 08"	22° 38' 38"	9° 55' 55"	7° 3' 3"	1° 39' 39"	21° 14' 14"	6° 12' 12"	25° 39' 39"	17° 12' 12"	4° 34' 34"	27° 9' 9"	26° 3' 3"	4° 42' 42"	19° 45' 45"	S 16
S 17	13 39 55	26° 50' 53"	7° 17' 37"	11° 46' 46"	8° 17' 17"	2° 24' 24"	21° 8' 8"	6° 7' 7"	25° 42' 42"	17° 11' 11"	4° 35' 35"	27° 1' 1"	26° 0' 0"	4° 49' 49"	19° 43' 43"	S 17
M 18	13 43 52	27° 49' 36"	22° 23' 23"	13° 34' 34"	9° 31' 31"	3° 10' 10"	21° 1' 1"	6° 3' 3"	25° 46' 46"	17° 10' 10"	4° 37' 37"	26° 55' 55"	25° 57' 57"	4° 55' 55"	19° 42' 42"	M 18
T 19	13 47 48	28° 48' 17"	6° 35' 51"	15° 19' 19"	10° 45' 45"	3° 55' 55"	20° 55' 55"	5° 58' 58"	25° 49' 49"	17° 8' 8"	4° 38' 38"	26° 50' 50"	25° 54' 54"	5° 2' 2"	19° 40' 40"	T 19
W 20	13 51 45	29° 46' 57"	20° 57' 57"	17° 0' 0"	11° 59' 59"	4° 41' 41"	20° 48' 48"	5° 54' 54"	25° 53' 53"	17° 7' 7"	4° 40' 40"	26° 48' 48"	25° 50' 50"	5° 9' 9"	19° 38' 38"	W 20
T 21	13 55 41	0° 45' 35"	4° 44' 41"	18° 37' 37"	13° 13' 13"	5° 26' 26"	20° 42' 42"	5° 49' 49"	25° 56' 56"	17° 6' 6"	4° 41' 41"	26° 48' 48"	25° 47' 47"	5° 15' 15"	19° 36' 36"	T 21
F 22	13 59 38	1° 44' 11"	18° 3' 3"	20° 10' 10"	14° 27' 27"	6° 12' 12"	20° 35' 35"	5° 45' 45"	26° 0' 0"	17° 5' 5"	4° 42' 42"	26° 49' 49"	25° 44' 44"	5° 22' 22"	19° 34' 34"	F 22
S 23	14 3 34	2° 42' 45"	1° 18' 7"	21° 39' 39"	15° 41' 41"	6° 57' 57"	20° 28' 28"	5° 40' 40"	26° 3' 3"	17° 4' 4"	4° 44' 44"	26° 49' 49"	25° 41' 41"	5° 29' 29"	19° 32' 32"	S 23
S 24	14 7 31	3° 41' 18"	13° 56' 56"	23° 3' 3"	16° 55' 55"	7° 43' 43"	20° 21' 21"	5° 36' 36"	26° 6' 6"	17° 3' 3"	4° 45' 45"	26° 47' 47"	25° 38' 38"	5° 36' 36"	19° 30' 30"	S 24
M 25	14 11 28	4° 39' 49"	26° 31' 31"	24° 22' 22"	18° 9' 9"	8° 28' 28"	20° 14' 14"	5° 31' 31"	26° 10' 10"	17° 2' 2"	4° 46' 46"	26° 44' 44"	25° 34' 34"	5° 42' 42"	19° 28' 28"	M 25
T 26	14 15 24	5° 38' 18"	8° 56' 56"	25° 37' 37"	19° 23' 23"	9° 13' 13"	20° 7' 7"	5° 26' 26"	26° 13' 13"	17° 1' 1"	4° 48' 48"	26° 37' 37"	25° 31' 31"	5° 49' 49"	19° 25' 25"	T 26
W 27	14 19 21	6° 36' 46"	21° 12' 12"	26° 47' 47"	20° 37' 37"	9° 59' 59"	20° 0' 0"	5° 22' 22"	26° 17' 17"	17° 0' 0"	4° 49' 49"	26° 28' 28"	25° 28' 28"	5° 56' 56"	19° 23' 23"	W 27
T 28	14 23 17	7° 35' 12"	3° 20' 20"	27° 52' 52"	21° 51' 51"	10° 44' 44"	19° 52' 52"	5° 17' 17"	26° 20' 20"	16° 59' 59"	4° 51' 51"	26° 17' 17"	25° 25' 25"	6° 2' 2"	19° 20' 20"	T 28
F 29	14 27 14	8° 33' 36"	15° 23' 23"	28° 51' 51"	23° 5' 5"	11° 30' 30"	19° 45' 45"	5° 13' 13"	26° 23' 23"	16° 58' 58"	4° 52' 52"	26° 4' 4"	25° 22' 22"	6° 9' 9"	19° 18' 18"	F 29
S 30	14 31 10	9° 31' 59"	27° 19' 19"	29° 46' 46"	24° 18' 18"	12° 15' 15"	19° 18' 38"	5° 18' 18"	26° 27' 27"	16° 57' 57"	4° 53' 53"	25° 50' 50"	25° 19' 19"	6° 16' 16"	19° 15' 15"	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
F 1	4n24	18n16	4n47	2n35	1s17	6n14	1s 5	15s52	1s13	17s11	1n16	11s23	2n42	9n 5	0s33	5n53	1n 3	2s34	16s25	12s 7	12s34	25n46	18s 0	5n 4	
S 2	4 47	22 16	5 4	3 29	1 9	6 43	1 4	15 38	1 13	17 10	1 16	11 21	2 42	9 6	0 33	5 54	1 3	2 33	16 25	12 9	12 35	25 47	18 0	5 4	
S 3	5 10	25 18	5 7	4 24	1 1	7 13	1 2	15 24	1 14	17 8	1 16	11 20	2 42	9 7	0 33	5 54	1 3	2 33	16 25	12 12	12 36	25 49	17 59	5 5	
M 4	5 33	27 13	4 58	5 20	0 52	7 42	1 0	15 10	1 15	17 7	1 16	11 18	2 42	9 9	0 33	5 55	1 3	2 32	16 25	12 14	12 37	25 50	17 58	5 6	
T 5	5 56	27 54	4 35	6 16	0 43	8 11	0 59	14 55	1 15	17 6	1 16	11 17	2 42	9 10	0 33	5 56	1 3	2 32	16 25	12 16	12 38	25 51	17 57	5 6	
W 6	6 19	27 17	4 1	7 12	0 33	8 40	0 57	14 41	1 16	17 5	1 16	11 16	2 42	9 11	0 33	5 56	1 3	2 31	16 24	12 17	12 39	25 52	17 57	5 7	
T 7	6 41	25 23	3 15	8 8	0 23	9 9	0 55	14 26	1 17	17 3	1 16	11 14	2 42	9 12	0 33	5 57	1 3	2 31	16 24	12 17	12 40	25 53	17 56	5 8	
F 8	7 4	22 16	2 20	9 4	0 13	9 38	0 53	14 12	1 17	17 2	1 16	11 13	2 42	9 14	0 33	5 57	1 3	2 30	16 24	12 17	12 41	25 55	17 55	5 8	
S 9	7 26	18 2	1 17	9 59	0 2	10 6	0 51	13 57	1 18	17 0	1 16	11 11	2 42	9 15	0 33	5 58	1 3	2 30	16 24	12 16	12 42	25 56	17 55	5 9	
S 10	7 49	12 51	0 7	10 54	0n 9	10 34	0 49	13 42	1 19	16 59	1 16	11 10	2 42	9 16	0 33	5 58	1 3	2 29	16 24	12 16	12 43	25 57	17 54	5 10	
M11	8 11	6 55	1s 4	11 48	0 20	11 2	0 47	13 27	1 19	16 57	1 17	11 8	2 43	9 17	0 33	5 59	1 3	2 29	16 24	12 16	12 44	25 58	17 53	5 10	
T 12	8 33	0 28	2 14	12 41	0 31	11 29	0 45	13 12	1 20	16 56	1 17	11 7	2 43	9 19	0 33	5 59	1 3	2 28	16 24	12 17	12 45	25 59	17 52	5 11	
W13	8 55	6s11	3 18	13 33	0 43	11 57	0 43	12 56	1 20	16 54	1 17	11 5	2 43	9 20	0 33	6 0	1 3	2 28	16 24	12 19	12 47	26 1	17 52	5 11	
T 14	9 16	12 41	4 11	14 23	0 54	12 24	0 41	12 41	1 21	16 53	1 17	11 4	2 43	9 21	0 33	6 0	1 3	2 27	16 24	12 21	12 48	26 2	17 51	5 12	
F 15	9 38	18 33	4 47	15 12	1 5	12 50	0 39	12 26	1 22	16 51	1 17	11 2	2 43	9 22	0 33	6 1	1 3	2 27	16 24	12 24	12 49	26 3	17 50	5 13	
S 16	9 59	23 18	5 3	15 59	1 16	13 17	0 37	12 10	1 22	16 49	1 17	11 1	2 43	9 24	0 33	6 1	1 3	2 26	16 23	12 27	12 50	26 4	17 49	5 13	
S 17	10 21	26 29	4 59	16 44	1 26	13 43	0 35	11 54	1 23	16 48	1 17	11 0	2 43	9 25	0 33	6 2	1 3	2 26	16 23	12 30	12 51	26 5	17 49	5 14	
M18	10 42	27 47	4 35	17 26	1 37	14 8	0 33	11 38	1 24	16 46	1 17	10 58	2 43	9 26	0 33	6 2	1 3	2 25	16 23	12 32	12 52	26 6	17 48	5 15	
T 19	11 3	27 8	3 54	18 7	1 46	14 34	0 30	11 22	1 24	16 44	1 17	10 57	2 43	9 27	0 33	6 3	1 3	2 25	16 23	12 34	12 53	26 7	17 47	5 15	
W20	11 23	24 45	2 59	18 45	1 55	14 59	0 28	11 6	1 25	16 43	1 17	10 55	2 43	9 29	0 33	6 3	1 3	2 24	16 23	12 34	12 54	26 8	17 46	5 16	
T 21	11 44	20 57	1 55	19 21	2 4	15 24	0 26	10 50	1 25	16 41	1 17	10 54	2 43	9 30	0 33	6 3	1 3	2 24	16 23	12 34	12 55	26 10	17 46	5 16	
F 22	12 4	16 9	0 47	19 54	2 12	15 48	0 23	10 34	1 26	16 39	1 17	10 52	2 43	9 31	0 33	6 4	1 3	2 23	16 23	12 34	12 56	26 11	17 45	5 17	
S 23	12 24	10 43	0n23	20 24	2 19	16 12	0 21	10 18	1 26	16 37	1 17	10 51	2 43	9 32	0 33	6 4	1 3	2 23	16 23	12 34	12 57	26 12	17 44	5 18	
S 24	12 44	4 56	1 30	20 52	2 25	16 35	0 19	10 1	1 27	16 35	1 17	10 49	2 43	9 34	0 33	6 5	1 3	2 22	16 23	12 35	12 58	26 13	17 43	5 18	
M25	13 4	0n56	2 31	21 18	2 31	16 58	0 16	9 45	1 28	16 33	1 17	10 48	2 43	9 35	0 33	6 5	1 3	2 22	16 23	12 36	12 59	26 14	17 43	5 19	
T 26	13 24	6 40	3 24	21 40	2 35	17 21	0 14	9 28	1 28	16 32	1 17	10 46	2 43	9 36	0 33	6 5	1 3	2 21	16 23	12 38	13 0	26 15	17 42	5 19	
W27	13 43	12 4	4 6	22 0	2 39	17 43	0 11	9 11	1 29	16 30	1 17	10 45	2 43	9 37	0 33	6 6	1 3	2 21	16 23	12 41	13 2	26 16	17 41	5 20	
T 28	14 2	16 58	4 37	22 18	2 42	18 5	0 9	8 55	1 29	16 28	1 17	10 43	2 43	9 39	0 33	6 6	1 3	2 21	16 23	12 45	13 3	26 17	17 40	5 21	
F 29	14 21	21 9	4 55	22 33	2 44	18 26	0 6	8 38	1 30	16 26	1 17	10 42	2 43	9 40	0 33	6 6	1 3	2 20	16 23	12 50	13 4	26 18	17 40	5 21	
S 30	14n40	24n25	5n 0	22n46	2n44	18n47	0s 4	8s21	1s30	16s24	1n17	10s40	2n43	9n41	0s33	6n 7	1n 3	2s20	16s23	12s54	13s 5	26n19	17s39	5n22	

ASTRODIENST EPHEMERIS for the year 2101

geocentric

MAY 2101

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 7	10♈30'19	9♊12	0♊35	25♈32	13♈1	19°R30	5°R 4	26°Y30	16°R56	4♈55	25°R38	25♈15	6♊23	19°R12	S 1
M 2	14 39 3	11°28'38	21° 3	1°19	26°46	13°46	19♊23	4♊59	26°34	16♊56	4°56	25°27	25°12	6°29	19♈9	M 2
T 3	14 43 0	12°26'54	2♈54	1°58	28° 0	14°31	19°15	4°55	26°37	16°55	4°57	25°18	25° 9	6°36	19° 6	T 3
W 4	14 46 57	13°25'09	14°59	2°32	29°13	15°17	19° 8	4°50	26°40	16°54	4°59	25°13	25° 6	6°43	19° 4	W 4
T 5	14 50 53	14°23'22	26°52	3° 0	0♊27	16° 2	19° 0	4°46	26°44	16°53	5° 0	25° 9	25° 3	6°50	19° 1	T 5
F 6	14 54 50	15°21'33	9♊ 7	3°22	1°41	16°47	18°52	4°41	26°47	16°53	5° 2	25° 8	25° 0	6°56	18°57	F 6
S 7	14 58 46	16°19'41	21°39	3°39	2°54	17°33	18°45	4°37	26°50	16°52	5° 3	25° 8	24°56	7° 3	18°54	S 7
S 8	15 2 43	17°17'48	4♊34	3°51	4° 8	18°18	18°37	4°32	26°53	16°51	5° 4	25° 8	24°53	7°10	18°51	S 8
M 9	15 6 39	18°15'53	17°55	3°58	5°22	19° 3	18°29	4°28	26°57	16°51	5° 6	25° 7	24°50	7°16	18°48	M 9
T 10	15 10 36	19°13'55	1♈46	3°R59	6°35	19°48	18°22	4°24	27° 0	16°50	5° 7	25° 3	24°47	7°23	18°44	T 10
W11	15 14 32	20°11'56	16° 6	3°55	7°49	20°34	18°14	4°19	27° 3	16°49	5° 8	24°57	24°44	7°30	18°41	W11
T 12	15 18 29	21° 9'55	0♊53	3°47	9° 2	21°19	18° 7	4°15	27° 6	16°49	5°10	24°48	24°40	7°37	18°38	T 12
F 13	15 22 26	22° 7'53	16° 0	3°34	10°16	22° 4	17°59	4°11	27°10	16°48	5°11	24°38	24°37	7°43	18°34	F 13
S 14	15 26 22	23° 5'49	1♈18	3°16	11°29	22°49	17°51	4° 7	27°13	16°48	5°12	24°27	24°34	7°50	18°30	S 14
S 15	15 30 19	24° 3'44	16°34	2°55	12°42	23°34	17°44	4° 2	27°16	16°48	5°14	24°17	24°31	7°57	18°27	S 15
M16	15 34 15	25° 1'37	1♈38	2°30	13°56	24°19	17°36	3°58	27°19	16°47	5°15	24° 8	24°28	8° 3	18°23	M16
T 17	15 38 12	25°59'29	16°21	2° 2	15° 9	25° 5	17°29	3°54	27°22	16°47	5°16	24° 2	24°25	8°10	18°19	T 17
W18	15 42 8	26°57'19	0♈40	1°32	16°22	25°50	17°21	3°50	27°25	16°46	5°18	23°59	24°21	8°17	18°16	W18
T 19	15 46 5	27°55'09	14°30	0°59	17°36	26°35	17°14	3°46	27°28	16°46	5°19	23°58	24°18	8°24	18°12	T 19
F 20	15 50 2	28°52'57	27°55	0°25	18°49	27°20	17° 6	3°42	27°31	16°46	5°20	23°58	24°15	8°30	18° 8	F 20
S 21	15 53 58	29°50'44	10♈56	29♈51	20° 2	28° 5	16°59	3°38	27°34	16°46	5°21	23°58	24°12	8°37	18° 4	S 21
S 22	15 57 55	0♊48'30	23°38	29°16	21°15	28°50	16°52	3°35	27°37	16°45	5°23	23°56	24° 9	8°44	18° 0	S 22
M23	16 1 51	1°46'15	6♈ 4	28°41	22°29	29°35	16°45	3°31	27°40	16°45	5°24	23°52	24° 6	8°50	17°56	M23
T 24	16 5 48	2°43'58	18°19	28° 8	23°42	0♈20	16°37	3°27	27°43	16°45	5°25	23°46	24° 2	8°57	17°52	T 24
W25	16 9 44	3°41'41	0♈24	27°36	24°55	1° 5	16°30	3°24	27°46	16°45	5°26	23°36	23°59	9° 4	17°48	W25
T 26	16 13 41	4°39'23	12°24	27° 6	26° 8	1°49	16°23	3°20	27°49	16°45	5°28	23°25	23°56	9°11	17°44	T 26
F 27	16 17 37	5°37'03	24°19	26°39	27°21	2°34	16°16	3°16	27°52	16°45	5°29	23°11	23°53	9°17	17°40	F 27
S 28	16 21 34	6°34'42	6♊11	26°15	28°34	3°19	16°10	3°13	27°55	16°D45	5°30	22°58	23°50	9°24	17°36	S 28
S 29	16 25 30	7°32'20	18° 3	25°54	29°47	4° 4	16° 3	3°10	27°58	16°45	5°31	22°45	23°46	9°31	17°32	S 29
M30	16 29 27	8°29'57	29°55	25°37	1♈ 0	4°48	15°56	3° 6	28° 1	16°45	5°33	22°33	23°43	9°38	17°28	M30
T 31	16 33 24	9♊27'33	11♈48	25♈23	2♈13	5♈33	15♊50	3♊ 3	28°Y 3	16♊45	5♈34	22°25	23°40	9♊44	17♈24	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
S 1	14n58	26n38	4n52	22n56	2n44	19n 7	0s 1	8s 4	1s31	16s22	1n17	10s39	2n43	9n42	0s33	6n 7	1n 3	2s19	16s23	12s58	13s 6	26n20	17s38	5n22			
M 2	15 16	27 39	4 32	23 4	2 42	19 27	0n 1	7 47	1 31	16 20	1 17	10 37	2 43	9 43	0 33	6 7	1 3	2 19	16 23	13 2	13 7	26 21	17 37	5 23			
T 3	15 34	27 23	3 59	23 9	2 40	19 46	0 4	7 30	1 32	16 18	1 17	10 36	2 43	9 45	0 33	6 8	1 3	2 18	16 23	13 5	13 8	26 22	17 37	5 23			
W 4	15 52	25 51	3 16	23 12	2 36	20 5	0 6	7 13	1 32	16 16	1 17	10 34	2 43	9 46	0 33	6 8	1 3	2 18	16 23	13 7	13 9	26 23	17 36	5 24			
T 5	16 9	23 7	2 24	23 13	2 31	20 23	0 9	6 56	1 33	16 14	1 17	10 33	2 43	9 47	0 33	6 8	1 3	2 18	16 23	13 8	13 10	26 24	17 35	5 24			
F 6	16 26	19 19	1 24	23 11	2 25	20 40	0 11	6 39	1 33	16 12	1 17	10 31	2 43	9 48	0 33	6 8	1 3	2 17	16 23	13 8	13 11	26 25	17 34	5 25			
S 7	16 43	14 34	0 18	23 8	2 18	20 57	0 14	6 22	1 34	16 10	1 17	10 30	2 42	9 49	0 33	6 9	1 3	2 17	16 23	13 8	13 12	26 26	17 34	5 25			
S 8	16 59	9 4	0s50	23 2	2 9	21 14	0 16	6 4	1 34	16 8	1 17	10 29	2 42	9 51	0 33	6 9	1 3	2 17	16 23	13 8	13 13	26 27	17 33	5 26			
M 9	17 16	2 58	1 57	22 53	2 0	21 30	0 19	5 47	1 35	16 6	1 17	10 27	2 42	9 52	0 33	6 9	1 3	2 16	16 23	13 9	13 14	26 28	17 32	5 26			
T 10	17 32	3s28	3 0	22 43	1 49	21 45	0 22	5 30	1 35	16 4	1 17	10 26	2 42	9 53	0 33	6 9	1 3	2 16	16 23	13 10	13 15	26 29	17 31	5 27			
W11	17 47	9 56	3 55	22 31	1 37	22 0	0 24	5 12	1 36	16 2	1 16	10 25	2 42	9 54	0 33	6 10	1 3	2 15	16 23	13 12	13 16	26 30	17 31	5 27			
T 12	18 3	16 4	4 35	22 16	1 24	22 14	0 27	4 55	1 36	16 0	1 16	10 23	2 42	9 55	0 33	6 10	1 2	2 15	16 24	13 15	13 17	26 31	17 30	5 28			
F 13	18 18	21 21	4 57	22 0	1 10	22 27	0 29	4 37	1 37	15 58	1 16	10 22	2 42	9 56	0 33	6 10	1 2	2 15	16 24	13 18	13 19	26 32	17 29	5 28			
S 14	18 32	25 16	4 58	21 42	0 55	22 40	0 32	4 20	1 37	15 56	1 16	10 21	2 42	9 58	0 33	6 10	1 2	2 14	16 24	13 22	13 20	26 33	17 28	5 29			
S 15	18 47	27 22	4 38	21 23	0 40	22 52	0 34	4 3	1 37	15 54	1 16	10 19	2 42	9 59	0 33	6 10	1 2	2 14	16 24	13 25	13 21	26 34	17 28	5 29			
M16	19 1	27 24	3 59	21 2	0 24	23 4	0 37	3 45	1 38	15 52	1 16	10 18	2 42	10 0	0 33	6 10	1 2	2 14	16 24	13 28	13 22	26 35	17 27	5 30			
T 17	19 15	25 29	3 4	20 40	0 7	23 15	0 39	3 28	1 38	15 50	1 16	10 17	2 41	10 1	0 33	6 10	1 2	2 13	16 24	13 30	13 23	26 35	17 26	5 30			
W18	19 28	21 57	2 0	20 17	0s10	23 25	0 41	3 10	1 39	15 48	1 16	10 16	2 41	10 2	0 33	6 11	1 2	2 13	16 24	13 31	13 24	26 36	17 25	5 30			
T 19	19 41	17 16	0 50	19 53	0 28	23 35	0 44	2 52	1 39	15 46	1 16	10 14	2 41	10 3	0 33	6 11	1 2	2 13	16 24	13 32	13 25	26 37	17 25	5 31			
F 20	19 54	11 52	0n21	19 29	0 46	23 43	0 46	2 35	1 39	15 44	1 16	10 13	2 41	10 4	0 33	6 11	1 2	2 13	16 24	13 32	13 26	26 38	17 24	5 31			
S 21	20 6	6 6	1 28	19 5	1 3	23 52	0 49	2 17	1 40	15 42	1 15	10 12	2 41	10 5	0 33	6 11	1 2	2 12	16 24	13 32	13 27	26 39	17 23	5 32			
S 22	20 19	0 14	2 30	18 40	1 20	23 59	0 51	2 0	1 40	15 40	1 15	10 11	2 41	10 6	0 33	6 11	1 2	2 12	16 25	13 32	13 28	26 40	17 23	5 32			
M23	20 30	5n31	3 23	18 16	1 37	24 6	0 53	1 42	1 40	15 38	1 15	10 10	2 41	10 7	0 33	6 11	1 2	2 12	16 25	13 34	13 29	26 41	17 22	5 32			
T 24	20 42	10 57	4 5	17 53	1 54	24 12	0 56	1 25	1 41	15 36	1 15	10 9	2 40	10 8	0 33	6 11	1 2	2 11	16 25	13 36	13 30	26 42	17 21	5 33			
W25	20 53	15 55	4 36	17 31	2 9	24 18	0 58	1 7	1 41	15 34	1 15	10 8	2 40	10 9	0 33	6 11	1 2	2 11	16 25	13 39	13 31	26 42	17 21	5 33			
T 26	21 4	20 13	4 55	17 10	2 24	24 22	1 0	0 50	1 41	15 32	1 15	10 7	2 40	10 11	0 33	6 11	1 2	2 11	16 25	13 43	13 32	26 43	17 20	5 33			
F 27	21 14	23 41	5 0	16 50	2 38	24 26	1 2	0 32	1 42	15 31	1 14	10 6	2 40	10 12	0 33	6 11	1 2	2 11	16 25	13 47	13 33	26 44	17 19	5 34			
S 28	21 24	26 8	4 52	16 31	2 51	24 30	1 4	0 15	1 42	15 29	1 14	10 5	2 40	10 13	0 33	6 11	1 2	2 11	16 25	13 51	13 34	26 45	17 18	5 34			
S 29	21 33	27 24	4 32	16 15	3 3	24 32	1 6	0n 3	1 42	15 27	1 14	10 4	2 40	10 14	0 33	6 11	1 2	2 10	16 26	13 56	13 35	26 46	17 18	5 34			
M30	21 43	27 25	4 0	16 0	3 14	24 34	1 9	0 20	1 43	15 25	1 14	10 3	2 39	10 15	0 33	6 11	1 2	2 10	16 26	13 59	13 36	26 47	17 17	5 34			
T 31	21n52	26n10	3n17	15n48	3s24	24n35	1n11	0n38	1s43	15s24	1n14	10s 2	2n39	10n16	0s33	6n11	1n 2	2s10	16s26	14s 2	13s37	26n47	17s17	5n35			

ASTRODIENST EPHEMERIS for the year 2101
geocentric

JUNE 2101

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 37 20	10 ^{II} 25'07	23 [☾] 47	25°R14	3 [☾] 26	6 [♂] 18	15°R43	3°R 0	28 [♂] 6	16 [♂] 45	5 [♂] 35	22°R19	23 [☾] 37	9 ^{II} 51	17°R19	W 1
T 2	16 41 17	11°22'40	5 [♂] 52	25 [♂] 9	4°39	7° 2	15 [♂] 37	2 [♂] 57	28° 9	16°45	5°36	22 [☾] 15	23°34	9°58	17 [♂] 15	T 2
F 3	16 45 13	12°20'12	18° 9	25°D 9	5°52	7°47	15°31	2°54	28°12	16°45	5°37	22°D14	23°31	10° 4	17°11	F 3
S 4	16 49 10	13°17'42	0 [♂] 42	25°13	7° 5	8°31	15°25	2°51	28°14	16°45	5°38	22°14	23°27	10°11	17° 7	S 4
S 5	16 53 6	14°15'11	13°34	25°21	8°18	9°15	15°19	2°48	28°17	16°46	5°39	22°R15	23°24	10°18	17° 3	S 5
M 6	16 57 3	15°12'39	26°50	25°34	9°31	10° 0	15°13	2°45	28°20	16°46	5°41	22°14	23°21	10°25	16°58	M 6
T 7	17 1 0	16°10'05	10 [♂] 33	25°52	10°44	10°44	15° 7	2°43	28°22	16°46	5°42	22°12	23°18	10°31	16°54	T 7
W 8	17 4 56	17° 7'31	24°45	26°14	11°56	11°28	15° 2	2°40	28°25	16°47	5°43	22° 7	23°15	10°38	16°50	W 8
T 9	17 8 53	18° 4'55	9 [♂] 24	26°40	13° 9	12°13	14°56	2°37	28°27	16°47	5°44	22° 0	23°11	10°45	16°46	T 9
F 10	17 12 49	19° 2'18	24°25	27°10	14°22	12°57	14°51	2°35	28°30	16°47	5°45	21°52	23° 8	10°51	16°41	F 10
S 11	17 16 46	19°59'40	9 [♂] 40	27°45	15°34	13°41	14°46	2°33	28°32	16°48	5°46	21°43	23° 5	10°58	16°37	S 11
S 12	17 20 42	20°57'02	24°59	28°24	16°47	14°25	14°41	2°30	28°34	16°48	5°47	21°35	23° 2	11° 5	16°33	S 12
M13	17 24 39	21°54'22	10 [♂] 9	29° 7	17°59	15° 9	14°36	2°28	28°37	16°49	5°48	21°28	22°59	11°12	16°29	M13
T 14	17 28 35	22°51'43	25° 1	29°53	19°12	15°53	14°31	2°26	28°39	16°49	5°49	21°23	22°56	11°18	16°25	T 14
W15	17 32 32	23°49'02	9 [♂] 29	0 ^{II} 44	20°25	16°37	14°27	2°24	28°42	16°50	5°50	21°20	22°52	11°25	16°20	W15
T 16	17 36 29	24°46'21	23°29	1°39	21°37	17°21	14°22	2°22	28°44	16°50	5°51	21°D20	22°49	11°32	16°16	T 16
F 17	17 40 25	25°43'39	7 [♂] 1	2°37	22°49	18° 4	14°18	2°20	28°46	16°51	5°52	21°20	22°46	11°38	16°12	F 17
S 18	17 44 22	26°40'57	20° 7	3°39	24° 2	18°48	14°14	2°19	28°48	16°52	5°53	21°21	22°43	11°45	16° 8	S 18
S 19	17 48 18	27°38'15	2 [♂] 50	4°44	25°14	19°32	14°10	2°17	28°50	16°52	5°54	21°R21	22°40	11°52	16° 4	S 19
M20	17 52 15	28°35'32	15°15	5°53	26°27	20°15	14° 6	2°15	28°52	16°53	5°55	21°20	22°37	11°59	16° 0	M20
T 21	17 56 11	29°32'50	27°26	7° 6	27°39	20°59	14° 3	2°14	28°55	16°54	5°56	21°16	22°33	12° 5	15°56	T 21
W22	18 0 8	0 [♂] 30'07	9 [♂] 27	8°21	28°51	21°42	13°59	2°13	28°57	16°55	5°57	21°10	22°30	12°12	15°52	W22
T 23	18 4 4	1°27'23	21°22	9°41	0 [♂] 3	22°26	13°56	2°11	28°59	16°55	5°57	21° 3	22°27	12°19	15°48	T 23
F 24	18 8 1	2°24'40	3 ^{II} 14	11° 3	1°16	23° 9	13°53	2°10	29° 0	16°56	5°58	20°54	22°24	12°25	15°44	F 24
S 25	18 11 58	3°21'56	15° 5	12°29	2°28	23°52	13°50	2° 9	29° 2	16°57	5°59	20°45	22°21	12°32	15°40	S 25
S 26	18 15 54	4°19'12	26°58	13°59	3°40	24°35	13°47	2° 8	29° 4	16°58	6° 0	20°37	22°18	12°39	15°36	S 26
M27	18 19 51	5°16'28	8 [♂] 53	15°31	4°52	25°18	13°45	2° 7	29° 6	16°59	6° 1	20°29	22°14	12°46	15°32	M27
T 28	18 23 47	6°13'43	20°54	17° 7	6° 4	26° 1	13°42	2° 6	29° 8	17° 0	6° 1	20°24	22°11	12°52	15°29	T 28
W29	18 27 44	7°10'58	3 [♂] 0	18°46	7°16	26°44	13°40	2° 6	29°10	17° 1	6° 2	20°20	22° 8	12°59	15°25	W29
T 30	18 31 40	8 [♂] 8'12	15 [♂] 15	20 ^{II} 28	8 [♂] 28	27 [♂] 27	13 [♂] 38	2 [♂] 5	29 [♂] 11	17 [♂] 2	6 [♂] 3	20°D19	22 [☾] 5	13 ^{II} 6	15 [♂] 21	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
W 1	22n 0	23n43	2n25	15n37	3s33	24n36	1n13	0n55	1s43	15s22	1n14	10s 1	2n39	10n17	0s33	6n11	1n 2	2s10	16s26	14s 4	13s39	26n48	17s16	5n35	
T 2	22 8	20 11	1 26	15 29	3 40	24 35	1 15	1 12	1 43	15 20	1 13	10 0	2 39	10 17	0 33	6 11	1 2	2 9	16 26	14 5	13 40	26 49	17 15	5 35	
F 3	22 16	15 44	0 22	15 23	3 46	24 34	1 16	1 30	1 44	15 19	1 13	9 59	2 39	10 18	0 33	6 11	1 2	2 9	16 26	14 6	13 41	26 50	17 15	5 35	
S 4	22 23	10 31	0s45	15 19	3 51	24 32	1 18	1 47	1 44	15 17	1 13	9 58	2 38	10 19	0 33	6 11	1 2	2 9	16 27	14 6	13 42	26 50	17 14	5 36	
S 5	22 30	4 45	1 51	15 17	3 55	24 30	1 20	2 4	1 44	15 16	1 13	9 58	2 38	10 20	0 33	6 10	1 2	2 9	16 27	14 5	13 43	26 51	17 13	5 36	
M 6	22 36	1s23	2 53	15 18	3 58	24 27	1 22	2 21	1 44	15 14	1 13	9 57	2 38	10 21	0 33	6 10	1 2	2 9	16 27	14 6	13 44	26 52	17 13	5 36	
T 7	22 43	7 40	3 47	15 20	3 59	24 23	1 24	2 39	1 45	15 13	1 12	9 56	2 38	10 22	0 33	6 10	1 2	2 9	16 27	14 6	13 45	26 53	17 12	5 36	
W 8	22 48	13 46	4 30	15 24	4 0	24 18	1 25	2 56	1 45	15 11	1 12	9 55	2 38	10 23	0 33	6 10	1 2	2 8	16 27	14 8	13 46	26 53	17 12	5 37	
T 9	22 54	19 18	4 56	15 31	4 0	24 13	1 27	3 13	1 45	15 10	1 12	9 55	2 37	10 24	0 34	6 10	1 2	2 8	16 28	14 10	13 47	26 54	17 11	5 37	
F 10	22 59	23 46	5 3	15 39	3 58	24 7	1 28	3 30	1 45	15 8	1 12	9 54	2 37	10 25	0 34	6 10	1 2	2 8	16 28	14 13	13 48	26 55	17 11	5 37	
S 11	23 3	26 39	4 49	15 49	3 56	24 0	1 30	3 47	1 45	15 7	1 12	9 54	2 37	10 26	0 34	6 10	1 2	2 8	16 28	14 16	13 49	26 56	17 10	5 37	
S 12	23 7	27 34	4 14	16 0	3 53	23 53	1 31	4 4	1 45	15 6	1 11	9 53	2 37	10 26	0 34	6 9	1 2	2 8	16 28	14 18	13 50	26 56	17 9	5 37	
M13	23 11	26 23	3 21	16 13	3 49	23 45	1 33	4 20	1 46	15 5	1 11	9 52	2 36	10 27	0 34	6 9	1 2	2 8	16 29	14 21	13 51	26 57	17 9	5 37	
T 14	23 14	23 21	2 16	16 28	3 44	23 36	1 34	4 37	1 46	15 3	1 11	9 52	2 36	10 28	0 34	6 9	1 2	2 8	16 29	14 22	13 52	26 58	17 8	5 37	
W15	23 17	18 53	1 3	16 44	3 39	23 27	1 35	4 54	1 46	15 2	1 11	9 52	2 36	10 29	0 34	6 9	1 2	2 8	16 29	14 23	13 53	26 58	17 8	5 37	
T 16	23 19	13 30	0n12	17 1	3 33	23 17	1 36	5 11	1 46	15 1	1 10	9 51	2 36	10 30	0 34	6 8	1 2	2 8	16 29	14 23	13 54	26 59	17 7	5 38	
F 17	23 22	7 39	1 23	17 19	3 26	23 6	1 37	5 27	1 46	15 0	1 10	9 51	2 35	10 30	0 34	6 8	1 2	2 8	16 29	14 23	13 55	27 0	17 7	5 38	
S 18	23 23	1 39	2 28	17 38	3 18	22 55	1 39	5 44	1 46	14 59	1 10	9 50	2 35	10 31	0 34	6 8	1 2	2 7	16 30	14 23	13 56	27 0	17 6	5 38	
S 19	23 24	4n14	3 24	17 57	3 10	22 43	1 39	6 0	1 46	14 58	1 10	9 50	2 35	10 32	0 34	6 8	1 2	2 7	16 30	14 23	13 57	27 1	17 6	5 38	
M20	23 25	9 49	4 8	18 18	3 1	22 30	1 40	6 16	1 46	14 57	1 10	9 50	2 35	10 33	0 34	6 7	1 2	2 7	16 30	14 23	13 58	27 2	17 5	5 38	
T 21	23 26	14 55	4 41	18 39	2 52	22 17	1 41	6 33	1 46	14 57	1 9	9 49	2 35	10 33	0 34	6 7	1 1	2 7	16 30	14 24	13 59	27 2	17 5	5 38	
W22	23 26	19 22	5 0	19 1	2 43	22 3	1 42	6 49	1 46	14 56	1 9	9 49	2 34	10 34	0 34	6 7	1 1	2 7	16 31	14 26	14 0	27 3	17 5	5 38	
T 23	23 25	23 1	5 6	19 23	2 33	21 48	1 43	7 5	1 46	14 55	1 9	9 49	2 34	10 35	0 34	6 6	1 1	2 7	16 31	14 28	14 1	27 3	17 4	5 38	
F 24	23 24	25 41	4 59	19 45	2 22	21 33	1 43	7 21	1 46	14 54	1 9	9 49	2 34	10 35	0 34	6 6	1 1	2 7	16 31	14 31	14 2	27 4	17 4	5 38	
S 25	23 23	27 13	4 40	20 7	2 11	21 17	1 44	7 37	1 46	14 54	1 8	9 49	2 34	10 36	0 34	6 6	1 1	2 7	16 31	14 34	14 3	27 5	17 3	5 38	
S 26	23 21	27 31	4 8	20 29	2 0	21 1	1 44	7 52	1 46	14 53	1 8	9 49	2 33	10 37	0 34	6 5	1 1	2 7	16 32	14 37	14 4	27 5	17 3	5 38	
M27	23 19	26 32	3 25	20 50	1 49	20 44	1 45	8 8	1 46	14 53	1 8	9 49	2 33	10 37	0 34	6 5	1 1	2 7	16 32	14 39	14 6	27 6	17 3	5 38	
T 28	23 17	24 19	2 32	21 12	1 37	20 27	1 45	8 24	1 46	14 52	1 8	9 49	2 33	10 38	0 34	6 4	1 1	2 7	16 32	14 41	14 7	27 6	17 2	5 38	
W29	23 14	20 58	1 32	21 32	1 25	20 9	1 45	8 39	1 46	14 52	1 7	9 49	2 32	10 39	0 34	6 4	1 1	2 7	16 33	14 42	14 8	27 7	17 2	5 38	
T 30	23n11	16n41	0n27	21n52	1s13	19n50	1n45	8n55	1s46	14s51	1n 7	9s49	2n32	10n39	0s34	6n 4	1n 1	2s 7	16s33	14s43	14s 9	27n 8	17s 2	5n38	

ASTRODIENST EPHEMERIS for the year 2101
geocentric

JULY 2101

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 35 37	9♉ 5'26	27♊41	22♋13	9♌40	28♍10	13°R36	2°R 5	29♎13	17♏ 3	6♐ 4	20♑19	22♒ 2	13♓12	15°R17	F 1
S 2	18 39 33	10° 2'40	10♊21	24° 1	10°52	28°52	13♎34	2♏ 4	29°15	17° 4	6° 4	20°20	21°58	13°19	15♓14	S 2
S 3	18 43 30	10°59'53	23°18	25°52	12° 4	29°35	13°33	2° 4	29°16	17° 5	6° 5	20°21	21°55	13°26	15°10	S 3
M 4	18 47 27	11°57'06	6♋34	27°45	13°16	0♌17	13°32	2° 4	29°18	17° 6	6° 6	20°R22	21°52	13°33	15° 7	M 4
T 5	18 51 23	12°54'18	20°13	29°42	14°27	1° 0	13°30	2° 4	29°19	17° 7	6° 6	20°22	21°49	13°39	15° 3	T 5
W 6	18 55 20	13°51'30	4♌15	19°40	15°39	1°42	13°29	2°D 4	29°21	17° 9	6° 7	20°21	21°46	13°46	15° 0	W 6
T 7	18 59 16	14°48'42	18°40	3°41	16°51	2°24	13°29	2° 4	29°22	17°10	6° 8	20°18	21°43	13°53	14°57	T 7
F 8	19 3 13	15°45'54	3♌25	5°44	18° 2	3° 6	13°28	2° 4	29°23	17°11	6° 8	20°13	21°39	13°59	14°53	F 8
S 9	19 7 9	16°43'06	18°24	7°49	19°14	3°48	13°28	2° 4	29°25	17°12	6° 9	20° 9	21°36	14° 6	14°50	S 9
S 10	19 11 6	17°40'17	3♉28	9°55	20°25	4°30	13°27	2° 5	29°26	17°14	6° 9	20° 4	21°33	14°13	14°47	S 10
M 11	19 15 3	18°37'28	18°29	12° 3	21°37	5°12	13°D27	2° 5	29°27	17°15	6°10	20° 1	21°30	14°20	14°44	M 11
T 12	19 18 59	19°34'40	3♌17	14°11	22°48	5°53	13°27	2° 6	29°28	17°16	6°11	19°58	21°27	14°26	14°41	T 12
W 13	19 22 56	20°31'52	17°45	16°20	24° 0	6°35	13°28	2° 6	29°30	17°18	6°11	19°D57	21°24	14°33	14°38	W 13
T 14	19 26 52	21°29'04	1♌48	18°30	25°11	7°16	13°28	2° 7	29°31	17°19	6°12	19°58	21°20	14°40	14°35	T 14
F 15	19 30 49	22°26'16	15°25	20°39	26°22	7°58	13°29	2° 8	29°32	17°21	6°12	19°59	21°17	14°46	14°32	F 15
S 16	19 34 45	23°23'29	28°37	22°48	27°33	8°39	13°30	2° 9	29°33	17°22	6°12	20° 1	21°14	14°53	14°30	S 16
S 17	19 38 42	24°20'42	11♎25	24°57	28°45	9°20	13°31	2°10	29°34	17°23	6°13	20° 2	21°11	15° 0	14°27	S 17
M 18	19 42 38	25°17'56	23°53	27° 5	29°56	10° 1	13°32	2°11	29°34	17°25	6°13	20°R 2	21° 8	15° 7	14°25	M 18
T 19	19 46 35	26°15'11	6♌ 5	29°12	1♊ 7	10°42	13°33	2°12	29°35	17°26	6°14	20° 2	21° 4	15°13	14°22	T 19
W 20	19 50 32	27°12'27	18° 6	1♊18	2°18	11°23	13°35	2°14	29°36	17°28	6°14	20° 1	21° 1	15°20	14°20	W 20
T 21	19 54 28	28° 9'43	0♋ 0	3°23	3°29	12° 4	13°36	2°15	29°37	17°30	6°14	19°58	20°58	15°27	14°17	T 21
F 22	19 58 25	29° 6'59	11°51	5°27	4°39	12°44	13°38	2°17	29°38	17°31	6°15	19°55	20°55	15°33	14°15	F 22
S 23	20 2 21	0♌ 4'17	23°44	7°29	5°50	13°25	13°40	2°19	29°38	17°33	6°15	19°52	20°52	15°40	14°13	S 23
S 24	20 6 18	1° 1'35	5♉39	9°29	7° 1	14° 5	13°43	2°20	29°39	17°34	6°15	19°49	20°49	15°47	14°11	S 24
M 25	20 10 14	1°58'54	17°41	11°28	8°12	14°45	13°45	2°22	29°39	17°36	6°16	19°47	20°45	15°54	14° 9	M 25
T 26	20 14 11	2°56'13	29°51	13°26	9°22	15°25	13°48	2°24	29°40	17°38	6°16	19°45	20°42	16° 0	14° 7	T 26
W 27	20 18 7	3°53'33	12♊11	15°21	10°33	16° 5	13°51	2°26	29°40	17°39	6°16	19°44	20°39	16° 7	14° 5	W 27
T 28	20 22 4	4°50'54	24°41	17°15	11°44	16°45	13°53	2°28	29°41	17°41	6°16	19°D44	20°36	16°14	14° 3	T 28
F 29	20 26 1	5°48'15	7♊24	19° 8	12°54	17°25	13°57	2°30	29°41	17°43	6°16	19°44	20°33	16°20	14° 1	F 29
S 30	20 29 57	6°45'37	20°20	20°58	14° 4	18° 4	14° 0	2°33	29°41	17°45	6°16	19°45	20°30	16°27	14° 0	S 30
S 31	20 33 54	7♊42'59	3♌31	22♊47	15♊15	18♌44	14♎ 3	2♏35	29♎42	17♏46	6♐17	19♑46	20♒26	16♓34	13♓58	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	decl	lat	decl	lat	decl	lat
F 1	23n 7	11n39	0s40	22n11	1s 1	19n31	1n46	9n10	1s46	14s51	1n 7	9s49	2n32	10n40	0s34	6n 3	1n 1	2s 7	16s33	14s43	14s10	27n 8	17s 1	5n38											
S 2	23 3	6 2	1 47	22 29	0 49	19 11	1 46	9 25	1 46	14 51	1 7	9 49	2 32	10 40	0 34	6 3	1 1	2 7	16 33	14 42	14 11	27 9	17 1	5 38											
S 3	22 58	0 4	2 50	22 45	0 37	18 51	1 45	9 40	1 46	14 51	1 6	9 49	2 31	10 41	0 34	6 2	1 1	2 8	16 34	14 42	14 12	27 9	17 1	5 38											
M 4	22 53	6s 3	3 45	23 0	0 25	18 31	1 45	9 55	1 46	14 51	1 6	9 49	2 31	10 41	0 34	6 2	1 1	2 8	16 34	14 41	14 13	27 10	17 0	5 37											
T 5	22 48	12 3	4 29	23 12	0 13	18 10	1 45	10 10	1 45	14 50	1 6	9 49	2 31	10 42	0 34	6 1	1 1	2 8	16 34	14 41	14 14	27 10	17 0	5 37											
W 6	22 42	17 37	4 59	23 23	0 2	17 48	1 45	10 25	1 45	14 50	1 5	9 50	2 31	10 42	0 34	6 1	1 1	2 8	16 35	14 42	14 15	27 11	17 0	5 37											
T 7	22 36	22 21	5 11	23 32	0n10	17 26	1 44	10 39	1 45	14 50	1 5	9 50	2 30	10 43	0 34	6 0	1 1	2 8	16 35	14 43	14 16	27 11	17 0	5 37											
F 8	22 30	25 47	5 3	23 39	0 21	17 4	1 44	10 54	1 45	14 50	1 5	9 50	2 30	10 43	0 34	6 0	1 1	2 8	16 35	14 44	14 17	27 12	16 59	5 37											
S 9	22 23	27 29	4 34	23 43	0 31	16 41	1 43	11 8	1 45	14 51	1 5	9 50	2 30	10 44	0 34	5 59	1 1	2 8	16 36	14 46	14 18	27 12	16 59	5 37											
S 10	22 16	27 10	3 47	23 44	0 41	16 18	1 43	11 22	1 45	14 51	1 4	9 51	2 30	10 44	0 34	5 59	1 1	2 8	16 36	14 47	14 19	27 13	16 59	5 37											
M 11	22 8	24 51	2 44	23 43	0 50	15 54	1 42	11 36	1 44	14 51	1 4	9 51	2 29	10 45	0 34	5 58	1 1	2 8	16 36	14 48	14 20	27 13	16 59	5 37											
T 12	22 0	20 52	1 30	23 39	0 59	15 30	1 41	11 50	1 44	14 51	1 4	9 52	2 29	10 45	0 34	5 58	1 1	2 8	16 36	14 49	14 21	27 14	16 59	5 36											
W 13	21 52	15 42	0 12	23 33	1 7	15 6	1 40	12 4	1 44	14 52	1 4	9 52	2 29	10 45	0 34	5 57	1 1	2 9	16 37	14 49	14 22	27 14	16 59	5 36											
T 14	21 43	9 49	1n 4	23 23	1 15	14 41	1 39	12 18	1 44	14 52	1 3	9 53	2 28	10 46	0 34	5 57	1 1	2 9	16 37	14 49	14 23	27 14	16 58	5 36											
F 15	21 34	3 40	2 15	23 11	1 22	14 15	1 38	12 32	1 43	14 52	1 3	9 53	2 28	10 46	0 34	5 56	1 1	2 9	16 37	14 49	14 24	27 15	16 58	5 36											
S 16	21 24	2n27	3 16	22 56	1 28	13 50	1 37	12 45	1 43	14 53	1 3	9 54	2 28	10 46	0 34	5 55	1 1	2 9	16 38	14 48	14 25	27 15	16 58	5 36											
S 17	21 14	8 17	4 6	22 39	1 33	13 24	1 36	12 58	1 43	14 53	1 3	9 55	2 28	10 47	0 34	5 55	1 1	2 9	16 38	14 48	14 26	27 16	16 58	5 35											
M 18	21 4	13 38	4 42	22 19	1 37	12 58	1 34	13 11	1 43	14 54	1 2	9 55	2 27	10 47	0 34	5 54	1 1	2 9	16 38	14 48	14 27	27 16	16 58	5 35											
T 19	20 53	18 20	5 5	21 57	1 41	12 31	1 33	13 24	1 42	14 55	1 2	9 56	2 27	10 47	0 34	5 54	1 1	2 10	16 39	14 48	14 28	27 17	16 58	5 35											
W 20	20 42	22 14	5 14	21 33	1 44	12 4	1 31	13 37	1 42	14 55	1 2	9 57	2 27	10 47	0 34	5 53	1 1	2 10	16 39	14 48	14 29	27 17	16 58	5 35											
T 21	20 31	25 11	5 9	21 6	1 46	11 37	1 30	13 50	1 42	14 56	1 2	9 57	2 27	10 48	0 34	5 52	1 1	2 10	16 39	14 49	14 30	27 17	16 58	5 35											
F 22	20 20	27 1	4 52	20 38	1 47	11 10	1 28	14 3	1 41	14 57	1 1	9 58	2 26	10 48	0 34	5 52	1 1	2 10	16 40	14 50	14 31	27 18	16 58	5 34											
S 23	20 8	27 38	4 21	20 8	1 48	10 42	1 26	14 15	1 41	14 58	1 1	9 59	2 26	10 48	0 34	5 51	1 1	2 10	16 40	14 51	14 32	27 18	16 58	5 34											
S 24	19 55	26 58	3 40	19 36	1 48	10 14	1 24	14 28	1 41	14 59	1 1	10 0	2 26	10 48	0 34	5 50	1 1	2 11	16 40	14 52	14 33	27 19	16 58	5 34											
M 25	19 43	25 2	2 48	19 3	1 47	9 46	1 23	14 40	1 40	15 0	1 1	10 1	2 26	10 48	0 34	5 50	1 1	2 11	16 41	14 53	14 34	27 19	16 58	5 34											
T 26	19 30	21 55	1 48	18 29	1 46	9 18	1 20	14 52	1 40	15 1	1 0	10 2	2 25	10 49	0 34	5 49	1 1	2 11	16 41	14 53	14 35	27 19	16 58	5 33											
W 27	19 16	17 48	0 42	17 53	1 44	8 49	1 18	15 4	1 39	15 2	1 0	10 2	2 25	10 49	0 34	5 48	1 1	2 11	16 41	14 54	14 36	27 20	16 58	5 33											
T 28	19 3	12 51	0s27	17 16	1 42	8 20	1 16	15 15	1 39	15 3	1 0	10 3	2 25	10 49	0 35	5 48	1 1	2 12	16 42	14 54	14 37	27 20	16 58	5 33											
F 29	18 49	7 18	1 36	16 39	1 39	7 51	1 14	15 27	1 38	15 4	1 0	10 4	2 24	10 49	0 35	5 47	1 1	2 12	16 42	14 53	14 38	27 20	16 58	5 32											
S 30	18 34	1 21	2 41	16 0	1 35	7 22	1 12	15 38	1 38	15 5	0 59	10 6	2 24	10 49	0 35	5 46	1 1	2 12	16 42	14 53	14 39	27 21	16 58	5 32											
S 31	18n20	4s45	3s39	15n21	1n31	6n52	1n 9	15n49	1s37	15s 7	0n59	10s 7	2n24	10n49	0s35	5n46	1n 1	2s12	16s43	14s53	14s40	27n21	16s58	5n32											

ASTRODIENST EPHEMERIS for the year 2101

geocentric

AUGUST 2101

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 37 50	8♂40'22	16♂56	24♂34	16♂25	19♂23	14♂7	2♂38	29♂42	17♂48	6♂17	19♂47	20♂23	16♂41	13♂57	M 1
T 2	20 41 47	9°37'45	0♂39	26°20	17°35	20° 2	14°11	2°40	29°42	17°50	6°17	19°48	20°20	16°47	13♂56	T 2
W 3	20 45 43	10°35'09	14°37	28° 3	18°45	20°41	14°15	2°43	29°42	17°52	6°17	19°48	20°17	16°54	13°54	W 3
T 4	20 49 40	11°32'33	28°50	29°46	19°55	21°19	14°19	2°46	29°42	17°54	6°17	19°48	20°14	17° 1	13°53	T 4
F 5	20 53 36	12°29'58	13♂17	1♂26	21° 5	21°58	14°23	2°49	29°42	17°56	6°17	19°47	20°10	17° 7	13°52	F 5
S 6	20 57 33	13°27'24	27°53	3° 5	22°15	22°36	14°28	2°52	29°42	17°58	6°17	19°46	20° 7	17°14	13°51	S 6
S 7	21 1 30	14°24'50	12♂33	4°42	23°25	23°15	14°32	2°55	29°42	18° 0	6°17	19°46	20° 4	17°21	13°50	S 7
M 8	21 5 26	15°22'17	27°11	6°18	24°35	23°53	14°37	2°58	29°42	18° 1	6°17	19°45	20° 1	17°27	13°49	M 8
T 9	21 9 23	16°19'45	11♂40	7°52	25°44	24°31	14°42	3° 1	29°42	18° 3	6°17	19°45	19°58	17°34	13°49	T 9
W10	21 13 19	17°17'14	25°56	9°24	26°54	25° 9	14°47	3° 4	29°42	18° 5	6°17	19°45	19°55	17°41	13°48	W10
T11	21 17 16	18°14'44	9♂52	10°54	28° 3	25°46	14°52	3° 8	29°41	18° 7	6°17	19°45	19°51	17°48	13°48	T11
F12	21 21 12	19°12'16	23°27	12°23	29°12	26°24	14°57	3°11	29°41	18° 9	6°17	19°45	19°48	17°54	13°47	F12
S13	21 25 9	20° 9'48	6♂40	13°50	0♂22	27° 1	15° 3	3°15	29°41	18°11	6°16	19°45	19°45	18° 1	13°47	S13
S14	21 29 5	21° 7'22	19°30	15°16	1°31	27°38	15° 9	3°18	29°40	18°13	6°16	19°45	19°42	18° 8	13°47	S14
M15	21 33 2	22° 4'57	2♂ 1	16°40	2°40	28°15	15°15	3°22	29°40	18°15	6°16	19°45	19°39	18°14	13°46	M15
T16	21 36 59	23° 2'34	14°15	18° 2	3°49	28°52	15°20	3°26	29°39	18°17	6°16	19°45	19°35	18°21	13°46	T16
W17	21 40 55	24° 0'12	26°18	19°22	4°58	29°28	15°27	3°30	29°39	18°19	6°16	19°45	19°32	18°28	13°46	W17
T18	21 44 52	24°57'52	8♂13	20°41	6° 7	0♂4	15°33	3°33	29°38	18°21	6°15	19°45	19°29	18°35	13°47	T18
F19	21 48 48	25°55'33	20° 5	21°57	7°15	0°41	15°39	3°38	29°37	18°24	6°15	19°45	19°26	18°41	13°47	F19
S20	21 52 45	26°53'16	1♂58	23°12	8°24	1°17	15°46	3°42	29°37	18°26	6°15	19°46	19°23	18°48	13°47	S20
S21	21 56 41	27°51'00	13°57	24°25	9°32	1°52	15°52	3°46	29°36	18°28	6°15	19°47	19°20	18°55	13°48	S21
M22	22 0 38	28°48'46	26° 5	25°35	10°41	2°28	15°59	3°50	29°35	18°30	6°14	19°48	19°16	19° 1	13°48	M22
T23	22 4 34	29°46'33	8♂25	26°44	11°49	3° 3	16° 6	3°54	29°34	18°32	6°14	19°48	19°13	19° 8	13°49	T23
W24	22 8 31	0♂44'22	20°59	27°50	12°57	3°38	16°13	3°59	29°33	18°34	6°14	19°48	19°10	19°15	13°49	W24
T25	22 12 28	1°42'12	3♂48	28°54	14° 5	4°13	16°21	4° 3	29°32	18°36	6°13	19°48	19° 7	19°21	13°50	T25
F26	22 16 24	2°40'04	16°53	29°56	15°13	4°47	16°28	4° 8	29°31	18°38	6°13	19°47	19° 4	19°28	13°51	F26
S27	22 20 21	3°37'57	0♂12	0♂54	16°21	5°22	16°35	4°12	29°30	18°41	6°12	19°45	19° 1	19°35	13°52	S27
S28	22 24 17	4°35'52	13°46	1°51	17°29	5°56	16°43	4°17	29°29	18°43	6°12	19°44	18°57	19°42	13°53	S28
M29	22 28 14	5°33'47	27°31	2°44	18°37	6°30	16°51	4°22	29°28	18°45	6°12	19°42	18°54	19°48	13°54	M29
T30	22 32 10	6°31'44	11♂27	3°34	19°44	7° 3	16°59	4°27	29°27	18°47	6°11	19°40	18°51	19°55	13°56	T30
W31	22 36 7	7♂29'43	25♂31	4♂21	20♂51	7♂37	17♂7	4♂32	29♂26	18♂49	6♂11	19♂39	18♂48	20♂2	13♂57	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n 5	10s45	4s26	14n41	1n27	6n23	1n 7	16n 1	1s37	15s 8	0n59	10s 8	2n24	10n49	0s35	5n45
T 2	17 50	16 21	4 59	14 1	1 22	5 53	1 4	16 12	1 36	15 9	0 59	10 9	2 23	10 49	0 35	5 44
W 3	17 34	21 14	5 15	13 20	1 16	5 23	1 1	16 22	1 36	15 11	0 58	10 10	2 23	10 49	0 35	5 44
T 4	17 19	24 58	5 13	12 39	1 10	4 53	0 58	16 33	1 35	15 12	0 58	10 11	2 23	10 49	0 35	5 43
F 5	17 3	27 11	4 50	11 57	1 4	4 23	0 56	16 43	1 35	15 14	0 58	10 12	2 23	10 49	0 35	5 42
S 6	16 46	27 34	4 9	11 16	0 58	3 53	0 53	16 54	1 34	15 15	0 58	10 14	2 22	10 49	0 35	5 41
S 7	16 30	26 1	3 12	10 34	0 51	3 22	0 50	17 4	1 34	15 17	0 57	10 15	2 22	10 49	0 35	5 41
M 8	16 13	22 42	2 2	9 52	0 43	2 52	0 47	17 14	1 33	15 18	0 57	10 16	2 22	10 49	0 35	5 40
T 9	15 56	18 0	0 45	9 10	0 36	2 22	0 43	17 24	1 32	15 20	0 57	10 17	2 22	10 49	0 35	5 39
W10	15 39	12 20	0n34	8 29	0 28	1 51	0 40	17 33	1 32	15 22	0 57	10 19	2 21	10 49	0 35	5 38
T11	15 21	6 11	1 49	7 47	0 20	1 20	0 37	17 43	1 31	15 24	0 56	10 20	2 21	10 49	0 35	5 37
F12	15 3	0n 6	2 56	7 5	0 12	0 50	0 34	17 52	1 30	15 25	0 56	10 22	2 21	10 49	0 35	5 37
S13	14 45	6 11	3 52	6 24	0 3	0 19	0 30	18 1	1 30	15 27	0 56	10 23	2 21	10 49	0 35	5 36
S14	14 27	11 51	4 34	5 43	0s 6	0s12	0 27	18 11	1 29	15 29	0 56	10 24	2 21	10 48	0 35	5 35
M15	14 9	16 53	5 2	5 2	0 14	0 42	0 23	18 19	1 28	15 31	0 55	10 26	2 20	10 48	0 35	5 34
T16	13 50	21 7	5 16	4 22	0 24	1 13	0 19	18 28	1 28	15 33	0 55	10 27	2 20	10 48	0 35	5 33
W17	13 31	24 25	5 15	3 42	0 33	1 44	0 16	18 37	1 27	15 35	0 55	10 29	2 20	10 48	0 35	5 33
T18	13 12	26 37	5 1	3 3	0 42	2 15	0 12	18 45	1 26	15 37	0 55	10 30	2 20	10 47	0 35	5 32
F19	12 52	27 36	4 34	2 24	0 52	2 45	0 8	18 53	1 25	15 39	0 54	10 32	2 19	10 47	0 35	5 31
S20	12 33	27 20	3 55	1 46	1 1	3 16	0 4	19 1	1 25	15 41	0 54	10 34	2 19	10 47	0 35	5 30
S21	12 13	25 47	3 6	1 8	1 11	3 47	0 0	19 9	1 24	15 43	0 54	10 35	2 19	10 47	0 35	5 29
M22	11 53	23 1	2 8	0 31	1 21	4 17	0s 4	19 17	1 23	15 45	0 54	10 37	2 19	10 46	0 35	5 29
T23	11 33	19 10	1 3	0s 5	1 31	4 48	0 8	19 25	1 22	15 48	0 54	10 39	2 18	10 46	0 35	5 28
W24	11 12	14 24	0s 6	0 41	1 41	5 18	0 12	19 32	1 21	15 50	0 53	10 40	2 18	10 46	0 35	5 27
T25	10 52	8 55	1 17	1 15	1 51	5 48	0 16	19 40	1 20	15 52	0 53	10 42	2 18	10 45	0 35	5 26
F26	10 31	2 58	2 24	1 49	2 1	6 18	0 20	19 47	1 20	15 54	0 53	10 44	2 18	10 45	0 35	5 25
S27	10 10	3s13	3 25	2 21	2 10	6 49	0 25	19 54	1 19	15 57	0 53	10 45	2 18	10 45	0 35	5 24
S28	9 49	9 21	4 16	2 53	2 20	7 18	0 29	20 1	1 18	15 59	0 52	10 47	2 17	10 44	0 35	5 24
M29	9 28	15 8	4 52	3 23	2 30	7 48	0 33	20 7	1 17	16 2	0 52	10 49	2 17	10 44	0 35	5 23
T30	9 7	20 12	5 12	3 52	2 40	8 18	0 38	20 14	1 16	16 4	0 52	10 51	2 17	10 43	0 35	5 22
W31	8n45	24s12	5s14	4s19	2s49	8s48	0s42	20n20	1s15	16s 6	0n52	10s53	2n17	10n43	0s35	5n21

Julian Day Number = 2488646.5, Delta T = 93.92 sec
 Ecliptic obliquity = 23°25'41", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 26°09'34", Lahiri = 25°16'35"

ASTRODIENST EPHEMERIS for the year 2101
geocentric

SEPTEMBER 2101

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 40 3	8♍27'42	9♌41	5♊5	21♏59	8♏10	17♏15	4♏37	29°R24	18♏52	6°R10	19°D38	18♏45	20♏8	13♌59	T 1
F 2	22 44 0	9°25'44	23°55	5°45	23°6	8°43	17°23	4°42	29°Y23	18°54	6♌9	19°39	18°41	20°15	14°0	F 2
S 3	22 47 57	10°23'46	8♌11	6°21	24°13	9°15	17°32	4°47	29°22	18°56	6°9	19°40	18°38	20°22	14°2	S 3
S 4	22 51 53	11°21'50	22°25	6°53	25°20	9°48	17°40	4°52	29°20	18°58	6°8	19°41	18°35	20°29	14°4	S 4
M 5	22 55 50	12°19'55	6♌36	7°20	26°26	10°20	17°49	4°57	29°19	19°0	6°8	19°42	18°32	20°35	14°5	M 5
T 6	22 59 46	13°18'01	20°39	7°43	27°33	10°52	17°57	5°3	29°18	19°3	6°7	19°R43	18°29	20°42	14°7	T 6
W 7	23 3 43	14°16'09	4♌32	8°1	28°39	11°23	18°6	5°8	29°16	19°5	6°7	19°42	18°26	20°49	14°9	W 7
T 8	23 7 39	15°14'19	18°11	8°13	29°45	11°54	18°15	5°13	29°15	19°7	6°6	19°40	18°22	20°55	14°11	T 8
F 9	23 11 36	16°12'30	1°Y34	8°20	0♏51	12°25	18°24	5°19	29°13	19°9	6°5	19°37	18°19	21°2	14°14	F 9
S 10	23 15 32	17°10'43	14°39	8°R21	1°57	12°56	18°33	5°24	29°11	19°11	6°5	19°33	18°16	21°9	14°16	S 10
S 11	23 19 29	18°8'59	27°26	8°16	3°3	13°26	18°43	5°30	29°10	19°14	6°4	19°28	18°13	21°15	14°18	S 11
M12	23 23 26	19°7'16	9♌56	8°4	4°8	13°56	18°52	5°36	29°8	19°16	6°3	19°24	18°10	21°22	14°21	M12
T 13	23 27 22	20°5'35	22°11	7°46	5°13	14°26	19°1	5°41	29°6	19°18	6°2	19°20	18°7	21°29	14°23	T 13
W14	23 31 19	21°3'56	4♏13	7°21	6°19	14°55	19°11	5°47	29°5	19°20	6°2	19°17	18°3	21°36	14°26	W14
T 15	23 35 15	22°2'20	16°8	6°50	7°23	15°24	19°21	5°53	29°3	19°23	6°1	19°16	18°0	21°42	14°29	T 15
F 16	23 39 12	23°0'45	28°0	6°12	8°28	15°53	19°31	5°59	29°1	19°25	6°0	19°D16	17°57	21°49	14°32	F 16
S 17	23 43 8	23°59'13	9♌53	5°28	9°33	16°21	19°40	6°5	28°59	19°27	5°59	19°17	17°54	21°56	14°34	S 17
S 18	23 47 5	24°57'42	21°53	4°38	10°37	16°49	19°50	6°11	28°57	19°29	5°59	19°18	17°51	22°2	14°37	S 18
M19	23 51 1	25°56'14	4♏4	3°43	11°41	17°17	20°0	6°17	28°55	19°31	5°58	19°20	17°47	22°9	14°40	M19
T 20	23 54 58	26°54'48	16°30	2°44	12°45	17°44	20°11	6°23	28°53	19°34	5°57	19°R21	17°44	22°16	14°44	T 20
W21	23 58 55	27°53'24	29°15	1°42	13°49	18°11	20°21	6°29	28°51	19°36	5°56	19°20	17°41	22°22	14°47	W21
T 22	0 2 51	28°52'02	12♏20	0°38	14°52	18°37	20°31	6°35	28°49	19°38	5°55	19°18	17°38	22°29	14°50	T 22
F 23	0 6 48	29°50'42	25°47	29♏33	15°56	19°3	20°42	6°41	28°47	19°40	5°54	19°14	17°35	22°36	14°54	F 23
S 24	0 10 44	0♏49'24	9♏32	28°30	16°59	19°29	20°52	6°48	28°45	19°42	5°53	19°9	17°32	22°42	14°57	S 24
S 25	0 14 41	1°48'08	23°33	27°30	18°1	19°54	21°3	6°54	28°43	19°45	5°53	19°2	17°28	22°49	15°1	S 25
M26	0 18 37	2°46'54	7♏46	26°35	19°4	20°18	21°14	7°0	28°41	19°47	5°52	18°55	17°25	22°56	15°4	M26
T 27	0 22 34	3°45'41	22°6	25°45	20°6	20°43	21°24	7°7	28°39	19°49	5°51	18°49	17°22	23°3	15°8	T 27
W28	0 26 30	4°44'31	6♌26	25°2	21°8	21°7	21°35	7°13	28°37	19°51	5°50	18°44	17°19	23°9	15°12	W28
T 29	0 30 27	5°43'22	20°44	24°28	22°9	21°30	21°46	7°20	28°35	19°53	5°49	18°41	17°16	23°16	15°16	T 29
F 30	0 34 23	6♏42'15	4♌57	24♏3	23♏11	21♏53	21♏57	7♏26	28°Y32	19°Y56	5♌48	18°D40	17°13	23♏23	15♌20	F 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
T 1	8n24	26s46	4s56	4s45	2s58	9s17	0s47	20n27	1s14	16s 9	0n52	10s54	2n17	10n43	0s35	5n20	1n 1	2s24	16s53	14s55	15s12	27n27	17s 9	5n21			
F 2	8 2	27 38	4 21	5 9	3 7	9 46	0 51	20 33	1 13	16 11	0 51	10 56	2 16	10 42	0 35	5 19	1 1	2 24	16 53	14 55	15 13	27 27	17 10	5 20			
S 3	7 40	26 39	3 29	5 31	3 16	10 15	0 56	20 39	1 12	16 14	0 51	10 58	2 16	10 42	0 35	5 18	1 1	2 25	16 53	14 55	15 14	27 27	17 11	5 20			
S 4	7 18	23 56	2 25	5 51	3 24	10 44	1 1	20 45	1 11	16 17	0 51	11 0	2 16	10 41	0 35	5 18	1 1	2 25	16 54	14 54	15 15	27 27	17 11	5 20			
M 5	6 56	19 46	1 12	6 10	3 32	11 13	1 5	20 50	1 10	16 19	0 51	11 2	2 16	10 41	0 35	5 17	1 1	2 26	16 54	14 54	15 16	27 27	17 12	5 19			
T 6	6 34	14 31	0n5	6 26	3 40	11 41	1 10	20 56	1 9	16 22	0 51	11 4	2 16	10 40	0 35	5 16	1 1	2 26	16 54	14 54	15 17	27 27	17 12	5 19			
W 7	6 11	8 36	1 21	6 39	3 47	12 9	1 15	21 1	1 7	16 24	0 50	11 6	2 15	10 39	0 35	5 15	1 1	2 27	16 54	14 54	15 18	27 27	17 13	5 19			
T 8	5 49	2 22	2 30	6 50	3 53	12 37	1 19	21 7	1 6	16 27	0 50	11 8	2 15	10 39	0 35	5 14	1 1	2 27	16 55	14 55	15 19	27 27	17 13	5 18			
F 9	5 26	3n50	3 30	6 58	3 59	13 5	1 24	21 12	1 5	16 30	0 50	11 10	2 15	10 38	0 35	5 13	1 1	2 28	16 55	14 56	15 20	27 27	17 14	5 18			
S 10	5 4	9 43	4 17	7 2	4 4	13 32	1 29	21 17	1 4	16 32	0 50	11 12	2 15	10 38	0 35	5 12	1 1	2 28	16 55	14 57	15 21	27 27	17 15	5 18			
S 11	4 41	15 3	4 50	7 4	4 7	13 59	1 34	21 22	1 3	16 35	0 50	11 14	2 15	10 37	0 35	5 11	1 1	2 28	16 55	14 58	15 22	27 27	17 15	5 17			
M12	4 18	19 39	5 8	7 2	4 10	14 26	1 38	21 27	1 2	16 38	0 50	11 16	2 15	10 37	0 35	5 11	1 1	2 29	16 56	15 0	15 23	27 27	17 16	5 17			
T 13	3 55	23 19	5 12	6 56	4 12	14 53	1 43	21 31	1 0	16 41	0 49	11 18	2 14	10 36	0 35	5 10	1 1	2 29	16 56	15 1	15 24	27 27	17 17	5 16			
W14	3 32	25 55	5 2	6 46	4 12	15 19	1 48	21 36	0 59	16 43	0 49	11 20	2 14	10 35	0 35	5 9	1 1	2 30	16 56	15 2	15 25	27 27	17 17	5 16			
T 15	3 9	27 20	4 39	6 32	4 10	15 45	1 53	21 40	0 58	16 46	0 49	11 22	2 14	10 35	0 35	5 8	1 1	2 30	16 56	15 2	15 26	27 27	17 18	5 16			
F 16	2 46	27 29	4 4	6 15	4 7	16 11	1 58	21 45	0 57	16 49	0 49	11 24	2 14	10 34	0 35	5 7	1 1	2 31	16 57	15 2	15 27	27 27	17 18	5 15			
S 17	2 23	26 22	3 19	5 53	4 3	16 36	2 2	21 49	0 55	16 52	0 49	11 26	2 14	10 33	0 35	5 6	1 1	2 31	16 57	15 2	15 28	27 27	17 19	5 15			
S 18	2 0	24 1	2 24	5 27	3 56	17 1	2 7	21 53	0 54	16 55	0 48	11 28	2 14	10 33	0 35	5 5	1 1	2 32	16 57	15 1	15 29	27 26	17 20	5 15			
M19	1 37	20 34	1 22	4 57	3 47	17 26	2 12	21 57	0 52	16 58	0 48	11 30	2 13	10 32	0 36	5 5	1 1	2 32	16 57	15 1	15 30	27 26	17 20	5 14			
T 20	1 14	16 8	0 16	4 24	3 37	17 50	2 17	22 1	0 51	17 0	0 48	11 33	2 13	10 31	0 36	5 4	1 1	2 33	16 57	15 1	15 31	27 26	17 21	5 14			
W21	0 50	10 54	0s54	3 48	3 25	18 14	2 22	22 5	0 50	17 3	0 48	11 35	2 13	10 31	0 36	5 3	1 1	2 33	16 58	15 1	15 32	27 26	17 22	5 14			
T 22	0 27	5 3	2 2	3 10	3 11	18 37	2 26	22 8	0 48	17 6	0 48	11 37	2 13	10 30	0 36	5 2	1 1	2 33	16 58	15 2	15 32	27 26	17 23	5 13			
F 23	0 4	1s 9	3 4	2 30	2 55	19 1	2 31	22 12	0 47	17 9	0 48	11 39	2 13	10 29	0 36	5 1	1 1	2 34	16 58	15 3	15 33	27 26	17 23	5 13			
S 24	0s20	7 25	3 58	1 49	2 37	19 23	2 36	22 16	0 45	17 12	0 47	11 41	2 13	10 28	0 36	5 0	1 1	2 34	16 58	15 5	15 34	27 26	17 24	5 13			
S 25	0 43	13 27	4 39	1 8	2 19	19 46	2 41	22 19	0 44	17 15	0 47	11 43	2 13	10 28	0 36	4 59	1 1	2 35	16 58	15 7	15 35	27 26	17 25	5 12			
M26	1 6	18 51	5 2	0 28	2 0	20 8	2 45	22 22	0 42	17 18	0 47	11 46	2 12	10 27	0 36	4 59	1 1	2 35	16 59	15 9	15 36	27 26	17 25	5 12			
T 27	1 30	23 14	5 8	0n10	1 40	20 29	2 50	22 26	0 41	17 21	0 47	11 48	2 12	10 26	0 36	4 58	1 1	2 36	16 59	15 11	15 37	27 25	17 26	5 12			
W28	1 53	26 12	4 54	0 45	1 19	20 50	2 55	22 29	0 39	17 24	0 47	11 50	2 12	10 25	0 36	4 57	1 1	2 36	16 59	15 12	15 38	27 25	17 27	5 11			
T 29	2 16	27 27	4 22	1 17	0 59	21 11	2 59	22 32	0 37	17 27	0 47	11 52	2 12	10 25	0 36	4 56	1 1	2 37	16 59	15 13	15 39	27 25	17 27	5 11			
F 30	2s40	26s53	3s33	1n46	0s39	21s31	3s 4	22n35	0s36	17s30	0n46	11s54	2n12	10n24	0s36	4n55	1n 1	2s37	16s59	15s13	15s40	27n25	17s28	5n11			

ASTRODIENST EPHEMERIS for the year 2101
geocentric

OCTOBER 2101

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 20	7♂41'09	19♂ 1	23°R48	24♂.12	22♂.15	22♂. 9	7♂.33	28°R30	19♂.58	5°R47	18♂.40	17♂. 9	23♂.29	15♂.24	S 1
S 2	0 42 17	8°40'06	2♂.57	23°D43	25°13	22°37	22°20	7°39	28°Y28	20° 0	5♂.46	18°41	17° 6	23°36	15°28	S 2
M 3	0 46 13	9°39'03	16°44	23♂.48	26°13	22°59	22°31	7°46	28°26	20° 2	5°45	18°R42	17° 3	23°43	15°32	M 3
T 4	0 50 10	10°38'03	0♂.21	24° 4	27°13	23°20	22°42	7°53	28°23	20° 4	5°44	18°41	17° 0	23°49	15°36	T 4
W 5	0 54 6	11°37'05	13°48	24°30	28°13	23°40	22°54	7°59	28°21	20° 6	5°43	18°39	16°57	23°56	15°41	W 5
T 6	0 58 3	12°36'08	27° 4	25° 5	29°12	24° 0	23° 5	8° 6	28°19	20° 8	5°42	18°34	16°53	24° 3	15°45	T 6
F 7	1 1 59	13°35'13	10°Y 8	25°49	0♂.11	24°20	23°17	8°13	28°16	20°10	5°41	18°26	16°50	24°10	15°50	F 7
S 8	1 5 56	14°34'20	22°59	26°41	1° 9	24°39	23°29	8°20	28°14	20°12	5°40	18°16	16°47	24°16	15°54	S 8
S 9	1 9 52	15°33'30	5♂.36	27°41	2° 7	24°57	23°40	8°26	28°12	20°14	5°39	18° 6	16°44	24°23	15°59	S 9
M10	1 13 49	16°32'41	17°59	28°48	3° 5	25°15	23°52	8°33	28° 9	20°17	5°38	17°55	16°41	24°30	16° 3	M10
T 11	1 17 46	17°31'55	0♂.10	0♂. 0	4° 2	25°32	24° 4	8°40	28° 7	20°19	5°37	17°46	16°38	24°36	16° 8	T 11
W12	1 21 42	18°31'11	12°10	1°19	4°59	25°49	24°16	8°47	28° 5	20°21	5°36	17°38	16°34	24°43	16°13	W12
T 13	1 25 39	19°30'29	24° 4	2°42	5°55	26° 5	24°28	8°54	28° 2	20°23	5°35	17°32	16°31	24°50	16°18	T 13
F 14	1 29 35	20°29'50	5♂.53	4° 8	6°51	26°20	24°40	9° 1	28° 0	20°25	5°33	17°28	16°28	24°56	16°23	F 14
S 15	1 33 32	21°29'13	17°44	5°39	7°46	26°35	24°52	9° 8	27°57	20°27	5°32	17°D27	16°25	25° 3	16°28	S 15
S 16	1 37 28	22°28'38	29°42	7°12	8°41	26°49	25° 4	9°15	27°55	20°29	5°31	17°27	16°22	25°10	16°33	S 16
M17	1 41 25	23°28'05	11♂.52	8°47	9°35	27° 2	25°16	9°22	27°52	20°30	5°30	17°R28	16°18	25°16	16°38	M17
T 18	1 45 21	24°27'35	24°19	10°24	10°29	27°15	25°28	9°29	27°50	20°32	5°29	17°28	16°15	25°23	16°43	T 18
W19	1 49 18	25°27'07	7♂. 7	12° 3	11°22	27°27	25°41	9°36	27°48	20°34	5°28	17°26	16°12	25°30	16°48	W19
T 20	1 53 15	26°26'41	20°21	13°43	12°14	27°39	25°53	9°43	27°45	20°36	5°27	17°22	16° 9	25°37	16°54	T 20
F 21	1 57 11	27°26'17	4♂. 1	15°23	13° 6	27°49	26° 5	9°50	27°43	20°38	5°26	17°15	16° 6	25°43	16°59	F 21
S 22	2 1 8	28°25'56	18° 5	17° 5	13°57	27°59	26°18	9°57	27°40	20°40	5°25	17° 6	16° 3	25°50	17° 5	S 22
S 23	2 5 4	29°25'36	2♂.31	18°46	14°47	28° 8	26°30	10° 5	27°38	20°42	5°23	16°55	15°59	25°57	17°10	S 23
M24	2 9 1	0♂.25'19	17°12	20°28	15°37	28°17	26°43	10°12	27°35	20°44	5°22	16°44	15°56	26° 3	17°16	M24
T 25	2 12 57	1°25'03	1♂.59	22°10	16°26	28°25	26°56	10°19	27°33	20°45	5°21	16°33	15°53	26°10	17°21	T 25
W26	2 16 54	2°24'50	16°44	23°52	17°14	28°31	27° 8	10°26	27°30	20°47	5°20	16°25	15°50	26°17	17°27	W26
T 27	2 20 50	3°24'38	1♂.20	25°34	18° 2	28°38	27°21	10°33	27°28	20°49	5°19	16°19	15°47	26°23	17°33	T 27
F 28	2 24 47	4°24'28	15°43	27°16	18°48	28°43	27°34	10°40	27°26	20°51	5°18	16°16	15°44	26°30	17°38	F 28
S 29	2 28 44	5°24'19	29°49	28°57	19°34	28°47	27°47	10°48	27°23	20°52	5°17	16°15	15°40	26°37	17°44	S 29
S 30	2 32 40	6°24'12	13♂.39	0♂.38	20°19	28°51	27°59	10°55	27°21	20°54	5°16	16°15	15°37	26°43	17°50	S 30
M31	2 36 37	7♂.24'07	27♂.12	2♂.18	21♂. 2	28♂.54	28♂.12	11♂. 2	27°Y18	20♂.56	5♂.14	16♂.14	15♂.34	26♂.50	17♂.56	M31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	3s 3	24s36	2s33	2n 9	0s20	21s51	3s 8	22n38	0s34	17s33	0n46	11s57	2n12	10n23	0s36	4n54	1n 1	2s38	16s59	15s13	15s41	27n25	17s29	5n11						
S 2	3 26	20 51	1 24	2 28	0 2	22 10	3 13	22 41	0 32	17 36	0 46	11 59	2 12	10 22	0 36	4 54	1 1	2 38	17 0	15 13	15 42	27 25	17 30	5 10						
M 3	3 49	15 59	0 11	2 42	0n15	22 29	3 17	22 44	0 31	17 39	0 46	12 1	2 12	10 21	0 36	4 53	1 1	2 38	17 0	15 13	15 43	27 24	17 30	5 10						
T 4	4 12	10 22	1n 2	2 50	0 31	22 48	3 22	22 47	0 29	17 42	0 46	12 3	2 11	10 21	0 36	4 52	1 1	2 39	17 0	15 13	15 44	27 24	17 31	5 10						
W 5	4 36	4 22	2 11	2 54	0 46	23 6	3 26	22 50	0 27	17 45	0 46	12 6	2 11	10 20	0 36	4 51	1 1	2 39	17 0	15 14	15 45	27 24	17 32	5 9						
T 6	4 59	1n45	3 11	2 52	0 59	23 23	3 30	22 52	0 25	17 48	0 46	12 8	2 11	10 19	0 36	4 50	1 1	2 40	17 0	15 15	15 46	27 24	17 33	5 9						
F 7	5 22	7 41	4 0	2 45	1 11	23 40	3 34	22 55	0 23	17 51	0 45	12 10	2 11	10 18	0 36	4 50	1 1	2 40	17 0	15 18	15 47	27 23	17 33	5 9						
S 8	5 44	13 11	4 35	2 34	1 22	23 56	3 38	22 58	0 22	17 54	0 45	12 12	2 11	10 17	0 36	4 49	1 1	2 41	17 0	15 21	15 48	27 23	17 34	5 9						
S 9	6 7	18 3	4 57	2 19	1 31	24 12	3 42	23 0	0 20	17 57	0 45	12 15	2 11	10 16	0 36	4 48	1 1	2 41	17 0	15 24	15 49	27 23	17 35	5 8						
M10	6 30	22 3	5 4	1 59	1 39	24 28	3 46	23 3	0 18	18 0	0 45	12 17	2 11	10 16	0 36	4 47	1 1	2 41	17 1	15 27	15 50	27 23	17 36	5 8						
T 11	6 53	25 1	4 57	1 36	1 45	24 43	3 50	23 5	0 16	18 3	0 45	12 19	2 11	10 15	0 36	4 46	1 1	2 42	17 1	15 30	15 51	27 22	17 36	5 8						
W12	7 15	26 49	4 37	1 10	1 50	24 57	3 54	23 8	0 14	18 6	0 45	12 21	2 11	10 14	0 36	4 46	1 1	2 42	17 1	15 33	15 52	27 22	17 37	5 7						
T 13	7 38	27 22	4 5	0 40	1 54	25 11	3 58	23 11	0 12	18 9	0 45	12 24	2 11	10 13	0 36	4 45	1 1	2 43	17 1	15 34	15 53	27 22	17 38	5 7						
F 14	8 0	26 40	3 23	0 8	1 57	25 24	4 1	23 13	0 10	18 12	0 44	12 26	2 10	10 12	0 36	4 44	1 1	2 43	17 1	15 35	15 54	27 22	17 38	5 7						
S 15	8 22	24 45	2 32	0s26	1 59	25 37	4 5	23 16	0 7	18 15	0 44	12 28	2 10	10 11	0 36	4 43	1 1	2 44	17 1	15 36	15 55	27 21	17 39	5 7						
S 16	8 45	21 43	1 33	1 2	1 59	25 49	4 8	23 18	0 5	18 19	0 44	12 31	2 10	10 10	0 36	4 43	1 1	2 44	17 1	15 36	15 56	27 21	17 40	5 6						
M17	9 7	17 42	0 30	1 39	1 59	26 1	4 11	23 21	0 3	18 22	0 44	12 33	2 10	10 10	0 36	4 42	1 1	2 44	17 1	15 36	15 56	27 21	17 41	5 6						
T 18	9 29	12 50	0s36	2 18	1 58	26 12	4 15	23 23	0 1	18 25	0 44	12 35	2 10	10 9	0 36	4 41	1 1	2 45	17 1	15 36	15 57	27 20	17 41	5 6						
W19	9 50	7 18	1 43	2 58	1 57	26 23	4 18	23 25	0n 1	18 28	0 44	12 37	2 10	10 8	0 36	4 40	1 1	2 45	17 1	15 36	15 58	27 20	17 42	5 6						
T 20	10 12	1 17	2 45	3 39	1 55	26 33	4 21	23 28	0 4	18 31	0 44	12 40	2 10	10 7	0 36	4 40	1 1	2 46	17 1	15 37	15 59	27 20	17 43	5 6						
F 21	10 33	4s58	3 40	4 20	1 52	26 43	4 23	23 30	0 6	18 34	0 44	12 42	2 10	10 6	0 36	4 39	1 1	2 46	17 1	15 39	16 0	27 19	17 44	5 5						
S 22	10 55	11 9	4 24	5 2	1 48	26 52	4 26	23 33	0 8	18 37	0 43	12 44	2 10	10 5	0 36	4 38	1 1	2 46	17 1	15 42	16 1	27 19	17 44	5 5						
S 23	11 16	16 54	4 52	5 44	1 45	27 0	4 28	23 35	0 11	18 40	0 43	12 47	2 10	10 4	0 36	4 38	1 1	2 47	17 1	15 45	16 2	27 19	17 45	5 5						
M24	11 37	21 46	5 1	6 27	1 40	27 8	4 31	23 38	0 13	18 43	0 43	12 49	2 10	10 3	0 36	4 37	1 1	2 47	17 1	15 49	16 3	27 18	17 46	5 5						
T 25	11 58	25 17	4 51	7 9	1 36	27 16	4 33	23 41	0 15	18 46	0 43	12 51	2 10	10 3	0 36	4 36	1 1	2 47	17 1	15 52	16 4	27 18	17 46	5 5						
W26	12 18	27 5	4 21	7 51	1 31	27 23	4 35	23 43	0 18	18 49	0 43	12 53	2 10	10 2	0 36	4 36	1 2	2 48	17 1	15 55	16 5	27 18	17 47	5 4						
T 27	12 39	26 59	3 34	8 33	1 25	27 29	4 37	23 46	0 20	18 52	0 43	12 56	2 10	10 1	0 36	4 35	1 2	2 48	17 1	15 56	16 6	27 17	17 48	5 4						
F 28	12 59	25 3	2 34	9 15	1 20	27 35	4 39	23 48	0 23	18 55	0 43	12 58	2 10	10 0	0 36	4 34	1 2	2 48	17 1	15 57	16 7	27 17	17 48	5 4						
S 29	13 19	21 34	1 26	9 57	1 14	27 40	4 40	23 51	0 26	18 58	0 43	13 0	2 10	9 59	0 36	4 34	1 2	2 49	17 1	15 58	16 8	27 16	17 49	5 4						
S 30	13 39	16 56	0 14	10 38	1 8	27 45	4 41	23 54	0 28	19 1	0 43	13 2	2 10	9 58	0 35	4 33	1 2	2 49	17 1	15 58	16 9	27 16	17 50	5 4						
M31	13s59	11s32	0n58	11s18	1n 2	27s49	4s42	23n56	0n31	19s 4	0n42	13s 5	2n 9	9n57	0s35	4n32	1n 2	2s49	17s 1	15s58	16s10	27n16	17s50	5n 4						

ASTRODIENST EPHEMERIS for the year 2101
geocentric

DECEMBER 2101

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	4 38 50	8♌35°51	16♋15	21♌20	1°R 2	23°R27	5♌2	14♎42	26°R14	21♐34	4°R42	13°R 2	13♏56	0♈17	21♌17	T 1
F 2	4 42 46	9°36'36	28°43	22°51	0♌47	23°II 5	5°16	14°49	26°Y12	21°35	4♌41	12°54	13°52	0°24	21°24	F 2
S 3	4 46 43	10°37'23	11♌1	24°22	0°31	22°43	5°29	14°56	26°11	21°36	4°40	12°43	13°49	0°31	21°31	S 3
S 4	4 50 40	11°38'11	23°10	25°52	0°11	22°21	5°43	15° 2	26° 9	21°37	4°39	12°32	13°46	0°37	21°38	S 4
M 5	4 54 36	12°39'01	5♎13	27°22	29♌50	21°58	5°56	15° 9	26° 8	21°37	4°38	12°19	13°43	0°44	21°45	M 5
T 6	4 58 33	13°39'51	17°10	28°52	29°26	21°35	6° 9	15°16	26° 6	21°38	4°37	12° 8	13°40	0°51	21°52	T 6
W 7	5 2 29	14°40'42	29° 2	0♌21	29° 0	21°12	6°23	15°22	26° 5	21°39	4°36	11°58	13°36	0°58	21°59	W 7
T 8	5 6 26	15°41'35	10♌31	1°50	28°32	20°49	6°36	15°29	26° 3	21°39	4°36	11°51	13°33	1° 4	22° 6	T 8
F 9	5 10 12	16°42'28	22°39	3°18	28° 3	20°26	6°49	15°36	26° 2	21°40	4°35	11°46	13°30	1°11	22°13	F 9
S 10	5 14 19	17°43'23	4♎29	4°46	27°31	20° 3	7° 3	15°42	26° 1	21°40	4°34	11°44	13°27	1°18	22°19	S 10
S 11	5 18 16	18°44'19	16°25	6°12	26°59	19°39	7°16	15°48	26° 0	21°41	4°33	11°D44	13°24	1°24	22°26	S 11
M12	5 22 12	19°45'16	28°31	7°38	26°25	19°16	7°29	15°55	25°59	21°41	4°33	11°45	13°21	1°31	22°33	M12
T 13	5 26 9	20°46'14	10♎52	9° 2	25°50	18°53	7°42	16° 1	25°57	21°41	4°32	11°46	13°17	1°38	22°40	T 13
W14	5 30 5	21°47'13	23°32	10°26	25°14	18°30	7°56	16° 8	25°56	21°42	4°31	11°R47	13°14	1°44	22°47	W14
T 15	5 34 2	22°48'14	6♌37	11°47	24°38	18° 8	8° 9	16°14	25°55	21°42	4°30	11°46	13°11	1°51	22°54	T 15
F 16	5 37 58	23°49'15	20° 9	13° 7	24° 2	17°45	8°22	16°20	25°54	21°42	4°30	11°43	13° 8	1°58	23° 1	F 16
S 17	5 41 55	24°50'18	4♎11	14°25	23°25	17°23	8°35	16°26	25°53	21°43	4°29	11°38	13° 5	2° 4	23° 8	S 17
S 18	5 45 51	25°51'21	18°42	15°40	22°49	17° 2	8°48	16°32	25°52	21°43	4°28	11°31	13° 2	2°11	23°15	S 18
M19	5 49 48	26°52'26	3♌37	16°52	22°13	16°40	9° 1	16°39	25°52	21°43	4°28	11°24	12°58	2°18	23°22	M19
T 20	5 53 45	27°53'31	18°48	18° 1	21°38	16°20	9°14	16°45	25°51	21°43	4°27	11°17	12°55	2°24	23°29	T 20
W21	5 57 41	28°54'37	4♌7	19° 5	21° 4	15°59	9°27	16°51	25°50	21°43	4°26	11°11	12°52	2°31	23°36	W21
T 22	6 1 38	29°55'44	19°20	20° 6	20°31	15°39	9°40	16°57	25°49	21°44	4°26	11° 7	12°49	2°38	23°43	T 22
F 23	6 5 34	0♌56°51	4♎19	21° 1	20° 0	15°20	9°53	17° 2	25°49	21°44	4°25	11°D 5	12°46	2°44	23°50	F 23
S 24	6 9 31	1°57'58	18°56	21°50	19°30	15° 2	10° 6	17° 8	25°48	21°R44	4°25	11° 5	12°42	2°51	23°57	S 24
S 25	6 13 27	2°59'05	3♌8	22°32	19° 2	14°44	10°19	17°14	25°48	21°44	4°24	11° 7	12°39	2°58	24° 4	S 25
M26	6 17 24	4° 0'13	16°52	23° 6	18°36	14°26	10°32	17°20	25°47	21°44	4°24	11° 8	12°36	3° 4	24°11	M26
T 27	6 21 20	5° 1'21	0♋11	23°32	18°12	14°10	10°45	17°25	25°47	21°43	4°23	11°R 9	12°33	3°11	24°17	T 27
W28	6 25 17	6° 2'28	13° 6	23°48	17°50	13°54	10°58	17°31	25°46	21°43	4°23	11° 9	12°30	3°18	24°24	W28
T 29	6 29 14	7° 3'36	25°43	23°R53	17°30	13°39	11°11	17°37	25°46	21°43	4°22	11° 7	12°27	3°24	24°31	T 29
F 30	6 33 10	8° 4'44	8♌4	23°48	17°13	13°24	11°23	17°42	25°46	21°43	4°22	11° 4	12°23	3°31	24°38	F 30
S 31	6 37 7	9♌5°51	20♌13	23♌31	16♌58	13°II11	11♌36	17♎47	25°Y45	21♐43	4♌22	10♏59	12♏20	3♈38	24♌45	S 31

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	
T 1	21s44	10n33 4n31	25s10 2s 2	25s59 2s34	25n19 2n 3	20s29 0n40	14s10 2n10	9n35 0s35	4n18 1n 3	2s56 16s58	16s54 16s38	26n59 18s 8	5n 2		
F 2	21 53	15 35 4 54	25 19 2 5	25 48 2 22	25 20 2 6	20 31 0 40	14 12 2 10	9 34 0 35	4 18 1 3	2 56 16 57	16 56 16 39	26 58 18 8	5 2		
S 3	22 2	19 55 5 3	25 27 2 9	25 36 2 10	25 22 2 8	20 33 0 40	14 14 2 10	9 34 0 35	4 18 1 3	2 56 16 57	16 59 16 40	26 58 18 8	5 2		
S 4	22 10	23 22 4 58	25 33 2 11	25 23 1 58	25 23 2 11	20 36 0 40	14 16 2 10	9 33 0 35	4 17 1 3	2 56 16 57	17 2 16 41	26 57 18 9	5 2		
M 5	22 18	25 45 4 40	25 38 2 14	25 10 1 45	25 25 2 14	20 38 0 40	14 18 2 10	9 33 0 35	4 17 1 3	2 56 16 57	17 6 16 42	26 56 18 9	5 2		
T 6	22 26	26 57 4 9	25 41 2 16	24 57 1 31	25 26 2 16	20 41 0 39	14 20 2 10	9 32 0 35	4 17 1 3	2 56 16 56	17 9 16 43	26 56 18 9	5 2		
W 7	22 33	26 53 3 28	25 43 2 18	24 43 1 17	25 27 2 19	20 43 0 39	14 21 2 10	9 32 0 35	4 17 1 3	2 56 16 56	17 12 16 44	26 55 18 10	5 2		
T 8	22 40	25 36 2 38	25 44 2 19	24 28 1 3	25 28 2 21	20 45 0 39	14 23 2 10	9 31 0 35	4 17 1 3	2 56 16 56	17 14 16 45	26 54 18 10	5 2		
F 9	22 46	23 11 1 41	25 43 2 20	24 13 0 48	25 28 2 24	20 48 0 39	14 25 2 11	9 31 0 35	4 16 1 3	2 56 16 56	17 15 16 46	26 53 18 10	5 2		
S 10	22 52	19 46 0 39	25 41 2 20	23 58 0 34	25 29 2 26	20 50 0 39	14 27 2 11	9 30 0 35	4 16 1 3	2 56 16 55	17 15 16 47	26 53 18 11	5 2		
S 11	22 57	15 30 0s25	25 37 2 20	23 42 0 18	25 29 2 28	20 52 0 39	14 29 2 11	9 30 0 35	4 16 1 3	2 56 16 55	17 16 16 48	26 52 18 11	5 2		
M12	23 2	10 35 1 29	25 32 2 20	23 26 0 3	25 30 2 30	20 54 0 39	14 30 2 11	9 30 0 35	4 16 1 3	2 56 16 55	17 16 16 48	26 51 18 11	5 2		
T 13	23 6	5 10 2 30	25 25 2 18	23 9 0n13	25 30 2 32	20 56 0 39	14 32 2 11	9 29 0 34	4 16 1 3	2 56 16 55	17 15 16 49	26 51 18 11	5 3		
W14	23 10	0s35 3 26	25 17 2 16	22 52 0 28	25 30 2 34	20 59 0 39	14 34 2 11	9 29 0 34	4 16 1 3	2 56 16 54	17 15 16 50	26 50 18 12	5 3		
T 15	23 14	6 29 4 13	25 8 2 14	22 35 0 44	25 30 2 36	21 1 0 39	14 35 2 11	9 28 0 34	4 16 1 4	2 56 16 54	17 15 16 51	26 49 18 12	5 3		
F 16	23 17	12 18 4 47	24 57 2 11	22 18 1 0	25 29 2 38	21 3 0 39	14 37 2 11	9 28 0 34	4 16 1 4	2 56 16 54	17 16 16 52	26 48 18 12	5 3		
S 17	23 20	17 42 5 6	24 45 2 7	22 1 1 15	25 29 2 40	21 5 0 39	14 39 2 11	9 28 0 34	4 16 1 4	2 56 16 54	17 17 16 53	26 48 18 12	5 3		
S 18	23 22	22 17 5 6	24 32 2 2	21 44 1 30	25 29 2 42	21 7 0 39	14 40 2 11	9 28 0 34	4 16 1 4	2 56 16 53	17 19 16 54	26 47 18 13	5 3		
M19	23 23	25 32 4 46	24 17 1 56	21 27 1 45	25 28 2 43	21 9 0 39	14 42 2 12	9 27 0 34	4 16 1 4	2 56 16 53	17 21 16 55	26 46 18 13	5 3		
T 20	23 25	27 2 4 5	24 2 1 50	21 10 2 0	25 27 2 45	21 11 0 39	14 44 2 12	9 27 0 34	4 15 1 4	2 56 16 53	17 23 16 56	26 45 18 13	5 4		
W21	23 25	26 29 3 7	23 45 1 42	20 53 2 15	25 27 2 46	21 13 0 39	14 45 2 12	9 27 0 34	4 15 1 4	2 56 16 52	17 25 16 57	26 44 18 13	5 4		
T 22	23 26	23 56 1 55	23 28 1 34	20 37 2 29	25 26 2 47	21 15 0 39	14 47 2 12	9 27 0 34	4 15 1 4	2 56 16 52	17 26 16 57	26 44 18 13	5 4		
F 23	23 25	19 46 0 37	23 10 1 24	20 21 2 42	25 25 2 49	21 17 0 39	14 48 2 12	9 26 0 34	4 16 1 4	2 56 16 52	17 26 16 58	26 43 18 13	5 4		
S 24	23 25	14 28 0n43	22 52 1 13	20 6 2 55	25 24 2 50	21 19 0 39	14 50 2 12	9 26 0 34	4 16 1 4	2 56 16 51	17 26 16 59	26 42 18 13	5 4		
S 25	23 24	8 32 1 57	22 33 1 1	19 51 3 8	25 23 2 51	21 21 0 39	14 51 2 12	9 26 0 34	4 16 1 4	2 55 16 51	17 26 17 0	26 41 18 14	5 4		
M26	23 22	2 23 3 3	22 14 0 48	19 37 3 20	25 22 2 52	21 23 0 39	14 53 2 12	9 26 0 34	4 16 1 4	2 55 16 51	17 25 17 1	26 40 18 14	5 5		
T 27	23 20	3n41 3 56	21 56 0 34	19 24 3 31	25 21 2 53	21 25 0 39	14 54 2 13	9 26 0 34	4 16 1 4	2 55 16 50	17 25 17 2	26 39 18 14	5 5		
W28	23 17	9 24 4 36	21 38 0 18	19 11 3 42	25 20 2 54	21 26 0 38	14 56 2 13	9 26 0 34	4 16 1 4	2 55 16 50	17 25 17 3	26 39 18 14	5 5		
T 29	23 14	14 36 5 1	21 20 0 1	18 59 3 52	25 19 2 54	21 28 0 38	14 57 2 13	9 25 0 34	4 16 1 4	2 55 16 50	17 26 17 4	26 38 18 14	5 5		
F 30	23 11	19 6 5 12	21 4 0n16	18 48 4 2	25 18 2 55	21 30 0 38	14 58 2 13	9 25 0 34	4 16 1 4	2 55 16 49	17 27 17 5	26 37 18 14	5 5		
S 31	23s 7	22n44 5n 8	20s48 0n35	18s38 4n11	25n16 2n56	21s32 0n38	15s 0 2n13	9n25 0s34	4n16 1n 4	2s54 16s49	17s28 17s 5	26n36 18s14	5n 6		

Julian Day Number = 2488768.5, Delta T = 94.07 sec
Ecliptic obliquity = 23°25'40, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 26°09'51, Lahiri = 25°16'52