



Astrodienst Ephemeris Tables for the year 1666

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 1666

geocentric

JANUARY 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 43 23	10 ³ 58'09	17 ¹¹ 19	21 ³ 34	13 ² 17	0 ¹ 16	22 ²² 46	11 ³ 22	18 ² 7	19 ³ 22	26 ⁰ R13	14 ⁰ R49	14 ⁰ 55	22 ¹ 59	18 ² 15	F 1
S 2	6 47 20	11 ⁰ 59'21	0 ² 58	23 ⁰ 12	14 ¹ 17	0 ⁰ 36	22 ⁰ 59	11 ⁰ 29	18 ⁰ 10	19 ⁰ 24	26 ⁰ II11	14 ⁰ 48	14 ⁰ 52	23 ⁰ 6	18 ⁰ 19	S 2
S 3	6 51 16	13 ⁰ 0'32	14 ⁰ 25	24 ⁰ 51	15 ⁰ 32	0 ⁰ 56	23 ⁰ 12	11 ⁰ 36	18 ⁰ 13	19 ⁰ 27	26 ⁰ 10	14 ⁰ 48	14 ⁰ 49	23 ⁰ 12	18 ⁰ 22	S 3
M 4	6 55 13	14 ⁰ 1'43	27 ⁰ 38	26 ⁰ 29	16 ⁰ 46	1 ⁰ 16	23 ⁰ 24	11 ⁰ 44	18 ⁰ 16	19 ⁰ 29	26 ⁰ 9	14 ⁰ 48	14 ⁰ 46	23 ⁰ 19	18 ⁰ 26	M 4
T 5	6 59 9	15 ⁰ 2'54	10 ³ 38	28 ⁰ 7	18 ⁰ 1	1 ⁰ 36	23 ⁰ 37	11 ⁰ 51	18 ⁰ 19	19 ⁰ 31	26 ⁰ 8	14 ⁰ 48	14 ⁰ 42	23 ⁰ 26	18 ⁰ 30	T 5
W 6	7 3 6	16 ⁰ 4'05	23 ⁰ 23	29 ⁰ 44	19 ⁰ 16	1 ⁰ 54	23 ⁰ 50	11 ⁰ 58	18 ⁰ 22	19 ⁰ 34	26 ⁰ 7	14 ⁰ 48	14 ⁰ 39	23 ⁰ 33	18 ⁰ 34	W 6
T 7	7 7 2	17 ⁰ 5'15	5 ⁰ 55	1 ⁰ 21	20 ⁰ 30	2 ⁰ 13	24 ⁰ 3	12 ⁰ 5	18 ⁰ 25	19 ⁰ 36	26 ⁰ 6	14 ⁰ 48	14 ⁰ 36	23 ⁰ 39	18 ⁰ 38	T 7
F 8	7 10 59	18 ⁰ 6'25	18 ⁰ 13	2 ⁰ 57	21 ⁰ 45	2 ⁰ 31	24 ⁰ 16	12 ⁰ 12	18 ⁰ 29	19 ⁰ 38	26 ⁰ 5	14 ⁰ 47	14 ⁰ 33	23 ⁰ 46	18 ⁰ 41	F 8
S 9	7 14 56	19 ⁰ 7'35	0 ² 20	4 ⁰ 32	23 ⁰ 0	2 ⁰ 49	24 ⁰ 29	12 ⁰ 19	18 ⁰ 32	19 ⁰ 40	26 ⁰ 4	14 ⁰ 47	14 ⁰ 30	23 ⁰ 53	18 ⁰ 45	S 9
S 10	7 18 52	20 ⁰ 8'43	12 ⁰ 19	6 ⁰ 5	24 ⁰ 15	3 ⁰ 6	24 ⁰ 42	12 ⁰ 26	18 ⁰ 35	19 ⁰ 43	26 ⁰ 3	14 ⁰ 46	14 ⁰ 27	23 ⁰ 59	18 ⁰ 49	S 10
M 11	7 22 49	21 ⁰ 9'51	24 ⁰ 12	7 ⁰ 37	25 ⁰ 29	3 ⁰ 23	24 ⁰ 56	12 ⁰ 33	18 ⁰ 38	19 ⁰ 45	26 ⁰ 1	14 ⁰ 45	14 ⁰ 23	24 ⁰ 6	18 ⁰ 53	M 11
T 12	7 26 45	22 ⁰ 10'58	6 ⁰ 3	9 ⁰ 7	26 ⁰ 44	3 ⁰ 39	25 ⁰ 9	12 ⁰ 40	18 ⁰ 41	19 ⁰ 47	26 ⁰ 0	14 ⁰ 45	14 ⁰ 20	24 ⁰ 13	18 ⁰ 57	T 12
W 13	7 30 42	23 ⁰ 12'05	17 ⁰ 57	10 ⁰ 34	27 ⁰ 59	3 ⁰ 55	25 ⁰ 22	12 ⁰ 47	18 ⁰ 44	19 ⁰ 50	25 ⁰ 59	14 ⁰ D44	14 ⁰ 17	24 ⁰ 20	19 ⁰ 1	W 13
T 14	7 34 38	24 ⁰ 13'10	29 ⁰ 58	11 ⁰ 58	29 ⁰ 14	4 ⁰ 11	25 ⁰ 35	12 ⁰ 54	18 ⁰ 48	19 ⁰ 52	25 ⁰ 58	14 ⁰ 44	14 ⁰ 14	24 ⁰ 26	19 ⁰ 5	T 14
F 15	7 38 35	25 ⁰ 14'15	12 ⁰ 12	13 ⁰ 19	0 ³ 28	4 ⁰ 26	25 ⁰ 49	13 ⁰ 1	18 ⁰ 51	19 ⁰ 54	25 ⁰ 57	14 ⁰ 45	14 ⁰ 11	24 ⁰ 33	19 ⁰ 9	F 15
S 16	7 42 31	26 ⁰ 15'19	24 ⁰ 42	14 ⁰ 35	1 ⁰ 43	4 ⁰ 40	26 ⁰ 2	13 ⁰ 8	18 ⁰ 54	19 ⁰ 56	25 ⁰ 56	14 ⁰ 46	14 ⁰ 8	24 ⁰ 40	19 ⁰ 13	S 16
S 17	7 46 28	27 ⁰ 16'21	7 ⁰ II33	15 ⁰ 46	2 ⁰ 58	4 ⁰ 55	26 ⁰ 16	13 ⁰ 15	18 ⁰ 57	19 ⁰ 59	25 ⁰ 55	14 ⁰ 47	14 ⁰ 4	24 ⁰ 46	19 ⁰ 17	S 17
M 18	7 50 25	28 ⁰ 17'23	20 ⁰ 46	16 ⁰ 52	4 ⁰ 13	5 ⁰ 8	26 ⁰ 29	13 ⁰ 22	19 ⁰ 1	20 ⁰ 1	25 ⁰ 54	14 ⁰ 48	14 ⁰ 1	24 ⁰ 53	19 ⁰ 21	M 18
T 19	7 54 21	29 ⁰ 18'24	4 ⁰ 24	17 ⁰ 51	5 ⁰ 27	5 ⁰ 21	26 ⁰ 43	13 ⁰ 29	19 ⁰ 4	20 ⁰ 3	25 ⁰ 53	14 ⁰ 49	13 ⁰ 58	25 ⁰ 0	19 ⁰ 26	T 19
W 20	7 58 18	0 ⁰ 19'24	18 ⁰ 26	18 ⁰ 43	6 ⁰ 42	5 ⁰ 34	26 ⁰ 57	13 ⁰ 36	19 ⁰ 7	20 ⁰ 5	25 ⁰ 52	14 ⁰ R49	13 ⁰ 55	25 ⁰ 7	19 ⁰ 30	W 20
T 21	8 2 14	1 ⁰ 20'23	2 ⁰ 48	19 ⁰ 26	7 ⁰ 57	5 ⁰ 46	27 ⁰ 11	13 ⁰ 42	19 ⁰ 11	20 ⁰ 8	25 ⁰ 51	14 ⁰ 48	13 ⁰ 52	25 ⁰ 13	19 ⁰ 34	T 21
F 22	8 6 11	2 ⁰ 21'22	17 ⁰ 26	20 ⁰ 1	9 ⁰ 12	5 ⁰ 57	27 ⁰ 24	13 ⁰ 49	19 ⁰ 14	20 ⁰ 10	25 ⁰ 50	14 ⁰ 47	13 ⁰ 48	25 ⁰ 20	19 ⁰ 38	F 22
S 23	8 10 7	3 ⁰ 22'19	2 ⁰ 12	20 ⁰ 25	10 ⁰ 26	6 ⁰ 8	27 ⁰ 38	13 ⁰ 56	19 ⁰ 17	20 ⁰ 12	25 ⁰ 49	14 ⁰ 45	13 ⁰ 45	25 ⁰ 27	19 ⁰ 42	S 23
S 24	8 14 4	4 ⁰ 23'15	16 ⁰ 58	20 ⁰ 39	11 ⁰ 41	6 ⁰ 18	27 ⁰ 52	14 ⁰ 3	19 ⁰ 21	20 ⁰ 14	25 ⁰ 49	14 ⁰ 42	13 ⁰ 42	25 ⁰ 33	19 ⁰ 46	S 24
M 25	8 18 0	5 ⁰ 24'11	1 ⁰ 39	20 ⁰ R43	12 ⁰ 56	6 ⁰ 28	28 ⁰ 6	14 ⁰ 10	19 ⁰ 24	20 ⁰ 17	25 ⁰ 48	14 ⁰ 39	13 ⁰ 39	25 ⁰ 40	19 ⁰ 51	M 25
T 26	8 21 57	6 ⁰ 25'06	16 ⁰ 8	20 ⁰ 35	14 ⁰ 11	6 ⁰ 37	28 ⁰ 20	14 ⁰ 16	19 ⁰ 28	20 ⁰ 19	25 ⁰ 47	14 ⁰ 37	13 ⁰ 36	25 ⁰ 47	19 ⁰ 55	T 26
W 27	8 25 54	7 ⁰ 26'00	0 ⁰ 120	20 ⁰ 16	15 ⁰ 26	6 ⁰ 46	28 ⁰ 34	14 ⁰ 23	19 ⁰ 31	20 ⁰ 21	25 ⁰ 46	14 ⁰ 36	13 ⁰ 33	25 ⁰ 54	19 ⁰ 59	W 27
T 28	8 29 50	8 ⁰ 26'53	14 ⁰ 15	19 ⁰ 45	16 ⁰ 41	6 ⁰ 54	28 ⁰ 48	14 ⁰ 30	19 ⁰ 34	20 ⁰ 23	25 ⁰ 45	14 ⁰ D36	13 ⁰ 29	26 ⁰ 0	20 ⁰ 3	T 28
F 29	8 33 47	9 ⁰ 27'46	27 ⁰ 52	19 ⁰ 5	17 ⁰ 55	7 ⁰ 1	29 ⁰ 2	14 ⁰ 37	19 ⁰ 38	20 ⁰ 25	25 ⁰ 44	14 ⁰ 37	13 ⁰ 26	26 ⁰ 7	20 ⁰ 8	F 29
S 30	8 37 43	10 ⁰ 28'38	11 ⁰ 11	18 ⁰ 15	19 ⁰ 10	7 ⁰ 8	29 ⁰ 16	14 ⁰ 43	19 ⁰ 41	20 ⁰ 28	25 ⁰ 43	14 ⁰ 38	13 ⁰ 23	26 ⁰ 14	20 ⁰ 12	S 30
S 31	8 41 40	11 ⁰ 29'29	24 ⁰ 15	17 ⁰ 17	20 ⁰ 25	7 ⁰ 14	29 ⁰ 30	14 ⁰ 50	19 ⁰ 45	20 ⁰ 30	25 ⁰ II43	14 ⁰ 40	13 ⁰ 20	26 ⁰ 120	20 ⁰ 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
F 1	23s 2	12s45	4n28	23s51	2s 8	21s18	1n 7	2n17	2n36	14s50	0s56	22s37	0n22	16s 5	0s41	21s32	0n33	17n29	5s57	22n39	22n39	7s10	9s35	6n 5	
S 2	22 56	16 48	3 40	23 33	2 6	21 29	1 4	2 10	2 37	14 45	0 56	22 37	0 22	16 4	0 41	21 32	0 33	17 29	5 57	22 40	22 39	7 8	9 34	6 5	
S 3	22 51	19 54	2 41	23 14	2 5	21 40	1 2	2 3	2 39	14 41	0 56	22 36	0 22	16 3	0 41	21 31	0 33	17 29	5 56	22 40	22 39	7 6	9 34	6 5	
M 4	22 44	21 54	1 34	22 54	2 2	21 50	0 59	1 56	2 40	14 37	0 56	22 36	0 22	16 2	0 41	21 31	0 33	17 29	5 56	22 40	22 40	7 3	9 33	6 4	
T 5	22 38	22 40	0 23	22 31	1 59	22 0	0 57	1 49	2 41	14 33	0 56	22 35	0 22	16 1	0 41	21 31	0 33	17 29	5 56	22 40	22 40	7 1	9 32	6 4	
W 6	22 31	22 14	0s47	22 8	1 56	22 9	0 54	1 43	2 42	14 28	0 56	22 35	0 22	16 0	0 41	21 30	0 33	17 29	5 56	22 40	22 40	6 58	9 31	6 4	
T 7	22 23	20 41	1 55	21 42	1 51	22 17	0 52	1 37	2 43	14 24	0 56	22 34	0 22	15 59	0 41	21 30	0 33	17 30	5 56	22 40	22 41	6 56	9 30	6 4	
F 8	22 15	18 10	2 55	21 16	1 47	22 25	0 49	1 31	2 44	14 20	0 56	22 34	0 22	15 58	0 41	21 30	0 33	17 30	5 56	22 40	22 41	6 54	9 29	6 4	
S 9	22 7	14 54	3 47	20 48	1 41	22 31	0 46	1 25	2 46	14 15	0 56	22 33	0 22	15 57	0 41	21 30	0 33	17 30	5 56	22 40	22 42	6 51	9 28	6 3	
S 10	21 58	11 4	4 28	20 19	1 34	22 38	0 44	1 19	2 47	14 11	0 56	22 32	0 22	15 56	0 41	21 29	0 33	17 30	5 56	22 40	22 42	6 49	9 27	6 3	
M 11	21 49	6 51	4 57	19 48	1 27	22 43	0 41	1 13	2 48	14 7	0 56	22 32	0 22	15 55	0 41	21 29	0 33	17 30	5 56	22 40	22 42	6 47	9 26	6 3	
T 12	21 39	2 23	5 13	19 17	1 19	22 48	0 38	1 8	2 49	14 2	0 56	22 31	0 21	15 54	0 41	21 29	0 33	17 30	5 56	22 40	22 43	6 44	9 25	6 3	
W 13	21 29	2n11	5 16	18 45	1 10	22 52	0 36	1 3	2 50	13 58	0 55	22 31	0 21	15 53	0 41	21 28	0 33	17 30	5 55	22 40	22 43	6 42	9 24	6 2	
T 14	21 19	6 42	5 6	18 12	1 0	22 56	0 33	0 58	2 52	13 53	0 55	22 30	0 21	15 52	0 41	21 28	0 33	17 30	5 55	22 40	22 43	6 39	9 23	6 2	
F 15	21 8	11 3	4 41	17 39	0 50	22 58	0 30	0 53	2 53	13 48	0 55	22 29	0 21	15 51	0 41	21 28	0 33	17 30	5 55	22 40	22 44	6 37	9 22	6 2	
S 16	20 56	15 3	4 3	17 6	0 38	23 1	0 28	0 48	2 54	13 44	0 55	22 29	0 21	15 50	0 41	21 27	0 33	17 30	5 55	22 40	22 44	6 35	9 21	6 2	
S 17	20 45	18 27	3 12	16 32	0 25	23 2	0 25	0 44	2 55	13 39	0 55	22 28	0 21	15 49	0 41	21 27	0 33	17 30	5 55	22 40	22 44	6 32	9 20	6 2	
M 18	20 32	21 1	2 9	16 0	0 23	23 3	0 22	0 39	2 57	13 35	0 55	22 28	0 21	15 48	0 41	21 27	0 33	17 30	5 55	22 40	22 45	6 30	9 19	6 2	
T 19	20 20	22 27	0 57	15 28	0n 3	23 3	0 20	0 35	2 58	13 30	0 55	22 27	0 21	15 47	0 41	21 26	0 33	17 31	5 55	22 39	22 45	6 27	9 18	6 1	
W 20	20 7	22 32	0n20	14 58	0 18	23 2	0 17	0 32	2 59	13 25	0 55	22 26	0 21	15 46	0 41	21 26	0 33	17 31	5 55	22 39	22 45	6 25	9 17	6 1	
T 21	19 54	21 9	1 38	14 29	0 34	23 1	0 14	0 28	3 0	13 20	0 55	22 26	0 21	15 45	0 41	21 26	0 33	17 31	5 54	22 39	22 46	6 23	9 15	6 1	
F 22	19 40	18 21	2 50	14 2	0 51	22 58	0 11	0 25	3 2	13 16	0 55	22 25	0 21	15 44	0 41	21 25	0 33	17 31	5 54	22 40	22 46	6 20	9 14	6 1	
S 23	19 26	14 20	3 52	13 38	1 8	22 56	0 9	0 21	3 3	13 11	0 55	22 24	0 21	15 43	0 41	21 25	0 33	17 31	5 54	22 40	22 46	6 18	9 13	6 1	
S 24	19 12	9 26	4 39	13 17	1 25	22 52	0 6	0 19	3 4	13 6	0 55	22 24	0 21	15 42	0 41	21 25	0 33	17 31	5 54	22 40	22 47	6 15	9 12	6 1	
M 25	18 57	4 2	5 7	12 59	1 43	22 48	0 3	0 16	3 5	13 1	0 55	22 23	0 21	15 41	0 41	21 24	0 33	17 31	5 54	22 40	22 47	6 13	9 11	6 0	
T 26	18 42	1s31	5 15	12 45	2 1	22 43	0 1	0 13	3 7	12 56	0 55	22 22	0 21	15 39	0 41	21 24	0 33	17 31	5 54	22 41	22 47	6 10	9 10	6 0	
W 27	18 27	6 52	5 3	12 35	2 18	22 37	0s 2	0 11	3 8	12 52	0 55	22 22	0 21	15 38	0 41	21 24	0 33	17 31	5 54	22 41	22 48	6 8	9 8	6 0	
T 28	18 11	11 47	4 34	12 29	2 34	22 31	0 5	0 9	3 9	12 47	0 55	22 21	0 21	15 37	0 41	21 23	0 33	17 32	5 53	22 41	22 48	6 6	9 7	6 0	
F 29	17 55	15 59	3 50	12 27	2 49	22 24	0 7	0 7	3 10	12 42	0 55	22 20	0 20	15 36	0 41	21 23	0 33	17 32	5 53	22 41	22 48	6 3	9 6	6 0	
S 30	17 39	19 17	2 54	12 29	3 3	22 16	0 10	0 6	3 12	12 37	0 55	22 20	0 20	15 35	0 41	21 23	0 33	17 32	5 53	22 41	22 48	6 1	9 5	6 0	
S 31	17s22	21s32	1n50	12s35	3n15	22s 8	0s13	0n 5	3n13	12s32	0s55	22s19	0n20	15s34	0s41	21s22	0n33	17n32	5s53	22n40	22n49	5s58	9s 4	6n 5	

ASTRODIENST EPHEMERIS for the year 1666
geocentric

MARCH 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	10 36 0	10 ^h 43'04"	16 ^h 34'	13 ^h 29'	26 ^h 34'	4 ^h R50	6 ^h 28'	17 ^h 34'	21 ^h 24'	21 ^h 26'	25 ^h R28	13 ^h R19	11 ^h 48'	29 ^h 35'	22 ^h 20'	M 1
T 2	10 39 56	11 ^h 43'08"	29° 8	14°31'	27°48'	4 ^h 34'	6°42'	17°47'	21°28'	21°27'	25 ^h II28	13 ^h 48'	11°45'	29°42'	22°24'	T 2
W 3	10 43 53	12 ^h 43'09"	11 ^h 20'	15°36'	29° 3	4°17'	6°57'	17°52'	21°31'	21°29'	25°28'	13°14'	11°41'	29°49'	22°28'	W 3
T 4	10 47 49	13°43'09"	23°24'	16°43'	0 ^h 18'	3°59'	7°11'	17°57'	21°34'	21°30'	25°27'	13° 8	11°38'	29°55'	22°32'	T 4
F 5	10 51 46	14°43'07"	5 ^h 23'	17°53'	1°32'	3°41'	7°25'	18° 2	21°38'	21°32'	25°27'	12°58'	11°35'	0 ^h Y 2	22°37'	F 5
S 6	10 55 43	15°43'03"	17°18'	19° 4	2°47'	3°22'	7°40'	18° 7	21°41'	21°34'	25°27'	12°47'	11°32'	0° 9	22°41'	S 6
S 7	10 59 39	16°42'57"	29°11'	20°18'	4° 2	3° 3	7°54'	18°12'	21°44'	21°35'	25°27'	12°35'	11°29'	0°16'	22°45'	S 7
M 8	11 3 36	17°42'49"	11 ^h Y 3	21°33'	5°16'	2°43'	8° 9	18°16'	21°47'	21°37'	25°27'	12°22'	11°25'	0°22'	22°49'	M 8
T 9	11 7 32	18°42'39"	22°55'	22°50'	6°31'	2°23'	8°23'	18°21'	21°50'	21°38'	25°D27	12°10'	11°22'	0°29'	22°53'	T 9
W10	11 11 29	19°42'27"	4 ^h 50'	24° 9	7°46'	2° 2	8°37'	18°26'	21°54'	21°39'	25°27'	12° 0	11°19'	0°36'	22°57'	W10
T 11	11 15 25	20°42'13"	16°50'	25°29'	9° 0	1°41'	8°52'	18°30'	21°57'	21°41'	25°27'	11°52'	11°16'	0°42'	23° 1	T 11
F 12	11 19 22	21°41'56"	28°59'	26°51'	10°15'	1°19'	9° 6	18°34'	22° 0	21°42'	25°27'	11°47'	11°13'	0°49'	23° 4	F 12
S 13	11 23 18	22°41'38"	11 ^h II21	28°15'	11°29'	0°57'	9°20'	18°39'	22° 3	21°43'	25°27'	11°45'	11°10'	0°56'	23° 8	S 13
S 14	11 27 15	23°41'17"	24° 0	29°40'	12°44'	0°35'	9°35'	18°43'	22° 6	21°45'	25°27'	11°D44	11° 6	1° 3	23°12'	S 14
M15	11 31 12	24°40'53"	7 ^h 22'	1 ^h 31'	13°59'	0°12'	9°49'	18°47'	22° 9	21°46'	25°27'	11°R44	11° 3	1° 9	23°16'	M15
T 16	11 35 8	25°40'28"	20°29'	2°34'	15°13'	29 ^h II49	10° 3	18°51'	22°12'	21°47'	25°28'	11°44'	11° 0	1°16'	23°20'	T 16
W17	11 39 5	26°40'00"	4 ^h 24'	4° 4	16°28'	29°26'	10°17'	18°55'	22°15'	21°49'	25°28'	11°42'	10°57'	1°23'	23°24'	W17
T 18	11 43 1	27°39'29"	18°49'	5°34'	17°42'	29° 3	10°32'	18°59'	22°18'	21°50'	25°28'	11°38'	10°54'	1°30'	23°27'	T 18
F 19	11 46 58	28°38'57"	3 ^h II40	7° 7	18°57'	28°40'	10°46'	19° 3	22°21'	21°51'	25°28'	11°31'	10°51'	1°36'	23°31'	F 19
S 20	11 50 54	29°38'22"	18°51'	8°40'	20°11'	28°16'	11° 0	19° 7	22°24'	21°52'	25°28'	11°22'	10°47'	1°43'	23°35'	S 20
S 21	11 54 51	0 ^h Y37'45"	4 ^h 213	10°15'	21°26'	27°53'	11°14'	19°11'	22°27'	21°53'	25°29'	11°11'	10°44'	1°50'	23°38'	S 21
M22	11 58 47	1°37'06"	19°32'	11°51'	22°40'	27°30'	11°28'	19°14'	22°30'	21°54'	25°29'	11° 0	10°41'	1°56'	23°42'	M22
T 23	12 2 44	2°36'25"	4 ^h II39	13°29'	23°55'	27° 7	11°42'	19°18'	22°33'	21°55'	25°29'	10°51'	10°38'	2° 3	23°46'	T 23
W24	12 6 41	3°35'42"	19°23'	15° 8	25° 9	26°43'	11°56'	19°21'	22°36'	21°56'	25°30'	10°43'	10°35'	2°10'	23°49'	W24
T 25	12 10 37	4°34'57"	3 ^h Y39	16°48'	26°23'	26°20'	12°10'	19°25'	22°38'	21°57'	25°30'	10°38'	10°31'	2°17'	23°53'	T 25
F 26	12 14 34	5°34'11"	17°26'	18°30'	27°38'	25°58'	12°24'	19°28'	22°41'	21°58'	25°30'	10°35'	10°28'	2°23'	23°56'	F 26
S 27	12 18 30	6°33'23"	0 ^h 344	20°13'	28°52'	25°35'	12°38'	19°31'	22°44'	21°59'	25°31'	10°34'	10°25'	2°30'	24° 0	S 27
S 28	12 22 27	7°32'33"	13°37'	21°57'	0 ^h Y 7	25°13'	12°52'	19°34'	22°47'	22° 0	25°31'	10°34'	10°22'	2°37'	24° 3	S 28
M29	12 26 23	8°31'42"	26°10'	23°43'	1°21'	24°51'	13° 5	19°37'	22°49'	22° 1	25°32'	10°34'	10°19'	2°43'	24° 6	M29
T 30	12 30 20	9°30'48"	8 ^h 26'	25°31'	2°36'	24°29'	13°19'	19°40'	22°52'	22° 2	25°32'	10°31'	10°16'	2°50'	24°10'	T 30
W31	12 34 16	10 ^h Y29'53"	20 ^h 31'	27 ^h 20'	3 ^h Y50	24 ^h II 8	13 ^h 33'	19 ^h 343	22 ^h 55'	22 ^h 3 3	25 ^h II32	10 ^h 27'	10 ^h 12'	2 ^h Y57	24 ^h 13'	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
M 1	7s34	22s44 0s18	17s14 0s27	13s49 1s12	1n26 3n39	10s 2 0s56	22s 0 0n19	15s 2 0s41	21s14 0n33	17n36 5s48	22n49 22n57	4s47 8s25	5n59			
T 2	7 11 21 44	1 24 17 5	0 37 13 24	1 14 1 32	3 39 9 57	0 57 21 59	0 19 15 1	0 41 21 14	0 33 17 36	5 48 22 49	22 58 4 44	8 24 6 0				
W 3	6 48 19 43	2 24 16 55	0 46 13 0	1 15 1 39	3 39 9 51	0 57 21 59	0 19 15 0	0 41 21 13	0 33 17 37	5 48 22 49	22 58 4 42	8 22 6 0				
T 4	6 25 16 50	3 17 16 43	0 54 12 34	1 16 1 46	3 39 9 46	0 57 21 58	0 19 14 59	0 41 21 13	0 33 17 37	5 48 22 50	22 58 4 39	8 21 6 0				
F 5	6 2 13 17	4 0 16 30	1 3 12 9	1 17 1 53	3 39 9 41	0 57 21 58	0 19 14 58	0 41 21 13	0 33 17 37	5 47 22 51	22 59 4 37	8 20 6 0				
S 6	5 38 9 13	4 33 16 15	1 10 11 43	1 18 2 1	3 39 9 35	0 57 21 57	0 19 14 57	0 41 21 13	0 33 17 37	5 47 22 52	22 59 4 34	8 18 6 0				
S 7	5 15 4 49	4 54 15 59	1 18 11 17	1 19 2 8	3 39 9 30	0 57 21 56	0 18 14 56	0 41 21 12	0 33 17 37	5 47 22 53	22 59 4 31	8 17 6 0				
M 8	4 52 0 15	5 2 15 41	1 25 10 50	1 20 2 16	3 39 9 25	0 57 21 56	0 18 14 55	0 41 21 12	0 33 17 38	5 47 22 54	22 59 4 29	8 15 6 0				
T 9	4 28 4n20	4 57 15 22	1 32 10 24	1 21 2 24	3 39 9 19	0 57 21 55	0 18 14 54	0 41 21 12	0 33 17 38	5 47 22 55	23 0 4 26	8 14 6 0				
W10	4 5 8 47	4 39 15 2	1 38 9 56	1 22 2 32	3 38 9 14	0 57 21 55	0 18 14 53	0 41 21 12	0 33 17 38	5 47 22 56	23 0 4 24	8 13 6 0				
T 11	3 41 12 56	4 8 14 41	1 44 9 29	1 23 2 40	3 38 9 9	0 57 21 54	0 18 14 52	0 41 21 11	0 33 17 38	5 46 22 57	23 0 4 21	8 11 6 1				
F 12	3 18 16 37	3 26 14 18	1 49 9 2	1 23 2 48	3 37 9 3	0 57 21 53	0 18 14 51	0 41 21 11	0 33 17 38	5 46 22 58	23 0 4 19	8 10 6 1				
S 13	2 54 19 39	2 34 13 53	1 54 8 34	1 24 2 56	3 37 8 58	0 57 21 53	0 18 14 50	0 41 21 11	0 33 17 38	5 46 22 58	23 1 4 16	8 9 6 1				
S 14	2 31 21 48	1 33 13 28	1 59 8 6	1 25 3 4	3 36 8 53	0 57 21 52	0 18 14 49	0 41 21 11	0 33 17 39	5 46 22 58	23 1 4 14	8 7 6 1				
M15	2 7 22 53	0 25 13 1	2 3 7 38	1 25 3 12	3 35 8 47	0 58 21 52	0 18 14 48	0 41 21 11	0 33 17 39	5 46 22 58	23 1 4 11	8 6 6 1				
T 16	1 43 22 41	0n46 12 33	2 7 7 9	1 26 3 21	3 34 8 42	0 58 21 51	0 18 14 47	0 41 21 10	0 33 17 39	5 45 22 58	23 2 4 9	8 4 6 1				
W17	1 20 21 5	1 57 12 3	2 10 6 40	1 26 3 29	3 33 8 37	0 58 21 51	0 18 14 46	0 41 21 10	0 33 17 39	5 45 22 58	23 2 4 6	8 3 6 1				
T 18	0 56 18 6	3 3 11 32	2 13 6 12	1 26 3 37	3 32 8 31	0 58 21 50	0 18 14 45	0 41 21 10	0 33 17 39	5 45 22 58	23 2 4 4	8 2 6 2				
F 19	0 32 13 52	3 58 11 0	2 15 5 43	1 27 3 45	3 31 8 26	0 58 21 50	0 18 14 44	0 41 21 10	0 33 17 40	5 45 22 59	23 2 4 1	8 0 6 2				
S 20	0 9 8 41	4 38 10 27	2 17 5 14	1 27 3 53	3 29 8 21	0 58 21 49	0 18 14 43	0 41 21 10	0 33 17 40	5 45 23 0	23 3 3 59	7 59 6 2				
S 21	0n15 2 53	4 58 9 53	2 19 4 44	1 27 4 1	3 28 8 16	0 58 21 49	0 18 14 42	0 41 21 9	0 33 17 40	5 45 23 1	23 3 3 56	7 58 6 2				
M22	0 39 3s 4	4 57 9 17	2 20 4 15	1 27 4 9	3 27 8 10	0 58 21 48	0 18 14 42	0 41 21 9	0 33 17 40	5 44 23 2	23 3 3 53	7 56 6 2				
T 23	1 2 8 46	4 35 8 40	2 20 3 45	1 27 4 17	3 25 8 5	0 58 21 48	0 18 14 41	0 41 21 9	0 33 17 40	5 44 23 2	23 3 3 51	7 55 6 2				
W24	1 26 13 50	3 55 8 2	2 20 3 16	1 27 4 25	3 23 8 0	0 58 21 48	0 18 14 40	0 42 21 9	0 33 17 41	5 44 23 3	23 4 3 48	7 54 6 3				
T 25	1 49 17 57	3 2 7 22	2 20 2 46	1 27 4 32	3 22 7 55	0 58 21 47	0 18 14 39	0 42 21 9	0 33 17 41	5 44 23 3	23 4 3 46	7 52 6 3				
F 26	2 13 20 55	1 59 6 41	2 19 2 16	1 27 4 40	3 20 7 49	0 59 21 47	0 18 14 38	0 42 21 9	0 33 17 41	5 44 23 4	23 4 3 43	7 51 6 3				
S 27	2 36 22 37	0 52 6 0	2 18 1 46	1 26 4 47	3 18 7 44	0 59 21 46	0 17 14 37	0 42 21 8	0 33 17 41	5 43 23 4	23 4 3 41	7 50 6 3				
S 28	3 0 23 3	0s16 5 17	2 16 1 16	1 26 4 54	3 16 7 39	0 59 21 46	0 17 14 36	0 42 21 8	0 33 17 41	5 43 23 4	23 5 3 38	7 48 6 3				
M29	3 23 22 17	1 21 4 32	2 14 0 46	1 26 5 1	3 14 7 34	0 59 21 45	0 17 14 35	0 42 21 8	0 33 17 42	5 43 23 4	23 5 3 36	7 47 6 4				
T 30	3 47 20 28	2 21 3 47	2 11 0 16	1 25 5 8	3 12 7 29	0 59 21 45	0 17 14 35	0 42 21 8	0 33 17 42	5 43 23 4	23 5 3 33	7 46 6 4				
W31	4n10 17s44	3s14 3s 1	2s 7 0n14	1s25 5n14	3n10 7s23	0s59 21s45	0n17 14s34	0s42 21s 8	0n33 17n42	5s43 23n 4	23n 5 3s30	7s45 6n 4				

ASTRODIENST EPHEMERIS for the year 1666
geocentric

MAY 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 36 30	10♂44'39	4♂59	28♂57	12♂ 9	18♂39	20♂ 9	20°R25	23♂57	22°R11	25♂57	7°R16	8♂34	6♂25	25♂32	S 1
S 2	14 40 26	11°42'43	16°52	0♂34	13°23	18°41	20°20	20♂25	23°58	22♂11	25°58	7♂ 6	8°31	6°32	25°34	S 2
M 3	14 44 23	12°40'45	28°49	2° 8	14°37	18°43	20°32	20°25	23°59	22°11	25°59	6°56	8°28	6°39	25°35	M 3
T 4	14 48 19	13°38'46	10♂52	3°38	15°51	18°46	20°43	20°24	24° 1	22°10	26° 0	6°46	8°24	6°46	25°37	T 4
W 5	14 52 16	14°36'46	23° 2	5° 3	17° 5	18°50	20°55	20°24	24° 2	22°10	26° 2	6°37	8°21	6°52	25°38	W 5
T 6	14 56 12	15°34'44	5♂21	6°26	18°19	18°54	21° 6	20°23	24° 3	22°10	26° 3	6°31	8°18	6°59	25°40	T 6
F 7	15 0 9	16°32'40	17°49	7°44	19°32	18°59	21°17	20°22	24° 4	22° 9	26° 4	6°27	8°15	7° 6	25°41	F 7
S 8	15 4 5	17°30'35	0♂28	8°58	20°46	19° 5	21°28	20°22	24° 5	22° 9	26° 5	6°D25	8°12	7°12	25°43	S 8
S 9	15 8 2	18°28'28	13°20	10° 8	22° 0	19°11	21°39	20°21	24° 6	22° 8	26° 6	6°25	8° 8	7°19	25°44	S 9
M10	15 11 59	19°26'19	26°27	11°14	23°14	19°19	21°50	20°20	24° 7	22° 8	26° 7	6°26	8° 5	7°26	25°45	M10
T 11	15 15 55	20°24'08	9♂51	12°16	24°28	19°27	22° 1	20°19	24° 8	22° 7	26° 9	6°27	8° 2	7°33	25°46	T 11
W12	15 19 52	21°21'56	23°34	13°13	25°42	19°35	22°11	20°18	24° 9	22° 7	26°10	6°R28	7°59	7°39	25°48	W12
T 13	15 23 48	22°19'41	7♂37	14° 6	26°56	19°44	22°22	20°16	24°10	22° 6	26°11	6°27	7°56	7°46	25°49	T 13
F 14	15 27 45	23°17'26	22° 0	14°55	28° 9	19°54	22°32	20°15	24°10	22° 6	26°12	6°24	7°53	7°53	25°50	F 14
S 15	15 31 41	24°15'08	6♂39	15°39	29°23	20° 4	22°42	20°14	24°11	22° 5	26°13	6°19	7°49	7°59	25°51	S 15
S 16	15 35 38	25°12'49	21°29	16°19	0♂37	20°15	22°53	20°12	24°12	22° 4	26°15	6°14	7°46	8° 6	25°51	S 16
M17	15 39 34	26°10'28	6♂23	16°54	1°51	20°27	23° 3	20°10	24°12	22° 4	26°16	6° 8	7°43	8°13	25°52	M17
T 18	15 43 31	27° 8'06	21°13	17°25	3° 4	20°39	23°13	20° 9	24°13	22° 3	26°17	6° 2	7°40	8°20	25°53	T 18
W19	15 47 28	28° 5'43	5♂50	17°51	4°18	20°52	23°23	20° 7	24°13	22° 2	26°19	5°58	7°37	8°26	25°54	W19
T 20	15 51 24	29° 3'18	20° 7	18°12	5°32	21° 5	23°32	20° 5	24°14	22° 1	26°20	5°55	7°33	8°33	25°54	T 20
F 21	15 55 21	0♂11 0'53	4♂ 0	18°28	6°46	21°19	23°42	20° 3	24°14	22° 0	26°21	5°D54	7°30	8°40	25°55	F 21
S 22	15 59 17	0°58'26	17°28	18°40	7°59	21°33	23°52	20° 1	24°15	22° 0	26°23	5°55	7°27	8°47	25°56	S 22
S 23	16 3 14	1°55'59	0♂31	18°47	9°13	21°48	24° 1	19°59	24°15	21°59	26°24	5°56	7°24	8°53	25°56	S 23
M24	16 7 10	2°53'30	13°11	18°R49	10°27	22° 3	24°10	19°57	24°15	21°58	26°25	5°58	7°21	9° 0	25°56	M24
T 25	16 11 7	3°51'01	25°33	18°47	11°41	22°19	24°19	19°54	24°16	21°57	26°27	5°59	7°18	9° 7	25°57	T 25
W26	16 15 3	4°48'30	7♂40	18°40	12°54	22°35	24°28	19°52	24°16	21°56	26°28	5°R59	7°14	9°13	25°57	W26
T 27	16 19 0	5°45'59	19°38	18°29	14° 8	22°52	24°37	19°50	24°16	21°55	26°29	5°58	7°11	9°20	25°57	T 27
F 28	16 22 57	6°43'28	1♂31	18°14	15°22	23° 9	24°46	19°47	24°16	21°54	26°31	5°56	7° 8	9°27	25°57	F 28
S 29	16 26 53	7°40'55	13°23	17°56	16°35	23°27	24°55	19°44	24°R16	21°53	26°32	5°53	7° 5	9°34	25°57	S 29
S 30	16 30 50	8°38'21	25°19	17°33	17°49	23°45	25° 3	19°42	24°16	21°52	26°33	5°48	7° 2	9°40	25°R58	S 30
M31	16 34 46	9♂35'47	7♂21	17♂ 8	19♂ 3	24♂ 4	25♂12	19♂39	24♂16	21♂51	26♂35	5♂44	6♂59	9♂47	25♂57	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	15n 4	2s40	5s 4	22n 6	2n12	14n51	0s42	6n11	1n50	4s53	1s 4	21s40	0n16	14s14	0s43	21s 6	0n33	17n48	5s38	23n17	23n12	2s10	7s10	6n13			
S 2	15 22	2n 1	5 0	22 32	2 17	15 15	0 40	6 8	1 48	4 49	1 4	21 40	0 16	14 14	0 43	21 6	0 33	17 48	5 38	23 17	23 13	2 7	7 10	6 13			
M 3	15 40	6 40	4 43	22 56	2 21	15 39	0 38	6 5	1 45	4 45	1 4	21 40	0 16	14 13	0 43	21 6	0 33	17 48	5 37	23 18	23 13	2 5	7 9	6 14			
T 4	15 58	11 6	4 13	23 17	2 24	16 3	0 36	6 2	1 43	4 40	1 4	21 40	0 15	14 13	0 43	21 6	0 33	17 48	5 37	23 19	23 13	2 2	7 8	6 14			
W 5	16 15	15 10	3 31	23 36	2 27	16 26	0 33	5 58	1 40	4 36	1 5	21 41	0 15	14 13	0 43	21 6	0 33	17 48	5 37	23 19	23 13	1 59	7 7	6 14			
T 6	16 32	18 37	2 39	23 52	2 29	16 49	0 31	5 54	1 38	4 32	1 5	21 41	0 15	14 12	0 43	21 6	0 33	17 49	5 37	23 19	23 13	1 57	7 6	6 15			
F 7	16 49	21 17	1 38	24 6	2 30	17 11	0 29	5 50	1 35	4 27	1 5	21 41	0 15	14 12	0 43	21 7	0 33	17 49	5 37	23 19	23 14	1 54	7 5	6 15			
S 8	17 5	22 57	0 32	24 18	2 30	17 33	0 27	5 45	1 33	4 23	1 5	21 41	0 15	14 12	0 43	21 7	0 33	17 49	5 37	23 20	23 14	1 52	7 5	6 15			
S 9	17 21	23 26	0n37	24 28	2 29	17 54	0 24	5 40	1 30	4 19	1 5	21 41	0 15	14 11	0 43	21 7	0 33	17 49	5 37	23 20	23 14	1 49	7 4	6 16			
M10	17 37	22 38	1 46	24 35	2 27	18 15	0 22	5 35	1 28	4 15	1 6	21 41	0 15	14 11	0 43	21 7	0 33	17 49	5 37	23 20	23 14	1 46	7 3	6 16			
T 11	17 53	20 33	2 50	24 41	2 24	18 36	0 20	5 30	1 26	4 11	1 6	21 42	0 15	14 11	0 43	21 7	0 33	17 49	5 36	23 19	23 14	1 44	7 2	6 16			
W12	18 8	17 15	3 47	24 45	2 20	18 56	0 18	5 25	1 23	4 7	1 6	21 42	0 15	14 10	0 43	21 7	0 33	17 49	5 36	23 19	23 14	1 41	7 2	6 17			
T 13	18 23	12 55	4 31	24 46	2 15	19 16	0 15	5 19	1 21	4 3	1 6	21 42	0 15	14 10	0 43	21 7	0 33	17 50	5 36	23 20	23 15	1 38	7 1	6 17			
F 14	18 38	7 46	4 59	24 46	2 10	19 35	0 13	5 13	1 19	3 59	1 6	21 42	0 15	14 10	0 43	21 7	0 33	17 50	5 36	23 20	23 15	1 36	7 0	6 17			
S 15	18 52	2 5	5 9	24 45	2 3	19 53	0 10	5 7	1 17	3 55	1 7	21 43	0 15	14 10	0 43	21 7	0 33	17 50	5 36	23 20	23 15	1 33	7 0	6 18			
S 16	19 6	3s47	4 58	24 41	1 55	20 11	0 8	5 1	1 15	3 51	1 7	21 43	0 15	14 10	0 43	21 7	0 33	17 50	5 36	23 20	23 15	1 30	6 59	6 18			
M17	19 20	9 28	4 27	24 36	1 46	20 28	0 6	4 54	1 12	3 48	1 7	21 43	0 15	14 9	0 43	21 7	0 33	17 50	5 36	23 20	23 15	1 28	6 59	6 18			
T 18	19 33	14 35	3 39	24 29	1 37	20 45	0 3	4 47	1 10	3 44	1 7	21 44	0 15	14 9	0 43	21 8	0 33	17 50	5 36	23 21	23 16	1 25	6 58	6 19			
W19	19 46	18 45	2 36	24 21	1 26	21 2	0 1	4 40	1 8	3 40	1 8	21 44	0 15	14 9	0 43	21 8	0 33	17 51	5 35	23 21	23 16	1 23	6 57	6 19			
T 20	19 59	21 42	1 25	24 12	1 15	21 17	0n 1	4 33	1 6	3 36	1 8	21 44	0 15	14 9	0 43	21 8	0 33	17 51	5 35	23 21	23 16	1 20	6 57	6 19			
F 21	20 11	23 15	0 10	24 1	1 2	21 32	0 4	4 26	1 4	3 33	1 8	21 45	0 14	14 9	0 44	21 8	0 33	17 51	5 35	23 21	23 16	1 17	6 56	6 20			
S 22	20 23	23 22	1s 3	23 49	0 49	21 47	0 6	4 18	1 2	3 29	1 8	21 45	0 14	14 9	0 44	21 8	0 33	17 51	5 35	23 21	23 16	1 15	6 56	6 20			
S 23	20 35	22 12	2 10	23 35	0 35	22 1	0 9	4 11	1 0	3 26	1 8	21 45	0 14	14 9	0 44	21 8	0 33	17 51	5 35	23 21	23 17	1 12	6 55	6 21			
M24	20 46	19 55	3 9	23 21	0 20	22 14	0 11	4 3	0 58	3 22	1 9	21 46	0 14	14 9	0 44	21 8	0 33	17 51	5 35	23 21	23 17	1 9	6 55	6 21			
T 25	20 57	16 46	3 58	23 5	0 5	22 27	0 14	3 55	0 56	3 19	1 9	21 46	0 14	14 9	0 44	21 8	0 33	17 51	5 35	23 21	23 17	1 7	6 54	6 21			
W26	21 8	12 58	4 35	22 49	0s11	22 39	0 16	3 46	0 54	3 15	1 9	21 47	0 14	14 9	0 44	21 9	0 33	17 51	5 35	23 21	23 17	1 4	6 54	6 22			
T 27	21 18	8 42	5 0	22 31	0 28	22 50	0 18	3 38	0 52	3 12	1 9	21 47	0 14	14 9	0 44	21 9	0 33	17 52	5 35	23 21	23 17	1 1	6 54	6 22			
F 28	21 28	4 9	5 12	22 13	0 45	23 1	0 21	3 29	0 50	3 9	1 10	21 47	0 14	14 9	0 44	21 9	0 33	17 52	5 35	23 21	23 17	0 59	6 53	6 22			
S 29	21 38	0n32	5 10	21 54	1 2	23 11	0 23	3 21	0 48	3 6	1 10	21 48	0 14	14 9	0 44	21 9	0 33	17 52	5 34	23 21	23 18	0 56	6 53	6 23			
S 30	21 47	5 14	4 55	21 35	1 19	23 21	0 25	3 12	0 46	3 2	1 10	21 48	0 14	14 9	0 44	21 9	0 33	17 52	5 34	23 21	23 18	0 53	6 52	6 23			
M31	21n56	9n47	4s27	21n15	1s37	23n29	0n28	3n 2	0n44	2s59	1s10	21s49	0n14	14s 9	0s44	21s 9	0n33	17n52	5s34	23n21	23n18	0s51	6s52	6n23			

ASTRODIENST EPHEMERIS for the year 1666
geocentric

JUNE 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 38 43	10 ^{II} 33'13	19 ^{III} 32	16 ^R 40	20 ^{II} 16	24 ^{III} 23	25 ^{II} 20	19 ^R 36	24 ^R 16	21 ^R 50	26 ^{II} 36	5 ^R 40	6 ^{III} 55	9 ^V 54	25 ^R 57	T 1
W 2	16 42 39	11 [°] 30'37	1 ^{II} 53	16 ^{II} 10	21 [°] 30	24 [°] 43	25 [°] 28	19 ^{III} 33	24 ^{III} 16	21 ^{III} 49	26 [°] 38	5 ^{III} 36	6 [°] 52	10 [°] 1	25 ^{III} 57	W 2
T 3	16 46 36	12 [°] 28'01	14 [°] 26	15 [°] 38	22 [°] 43	25 [°] 3	25 [°] 36	19 [°] 30	24 [°] 15	21 [°] 47	26 [°] 39	5 [°] 34	6 [°] 49	10 [°] 7	25 [°] 57	T 3
F 4	16 50 32	13 [°] 25'23	27 [°] 12	15 [°] 5	23 [°] 57	25 [°] 23	25 [°] 44	19 [°] 27	24 [°] 15	21 [°] 46	26 [°] 40	5 [°] 33	6 [°] 46	10 [°] 14	25 [°] 57	F 4
S 5	16 54 29	14 [°] 22'45	10 ^{III} 11	14 [°] 32	25 [°] 11	25 [°] 44	25 [°] 51	19 [°] 24	24 [°] 15	21 [°] 45	26 [°] 42	5 [°] D32	6 [°] 43	10 [°] 21	25 [°] 56	S 5
S 6	16 58 26	15 [°] 20'06	23 [°] 23	13 [°] 58	26 [°] 24	26 [°] 5	25 [°] 59	19 [°] 21	24 [°] 14	21 [°] 44	26 [°] 43	5 [°] 33	6 [°] 39	10 [°] 27	25 [°] 56	S 6
M 7	17 2 22	16 [°] 17'27	6 ^{II} 48	13 [°] 25	27 [°] 38	26 [°] 27	26 [°] 6	19 [°] 17	24 [°] 14	21 [°] 43	26 [°] 45	5 [°] 34	6 [°] 36	10 [°] 34	25 [°] 56	M 7
T 8	17 6 19	17 [°] 14'46	20 [°] 26	12 [°] 53	28 [°] 52	26 [°] 49	26 [°] 14	19 [°] 14	24 [°] 14	21 [°] 41	26 [°] 46	5 [°] 36	6 [°] 33	10 [°] 41	25 [°] 55	T 8
W 9	17 10 15	18 [°] 12'04	4 ^{III} 17	12 [°] 23	0 ^{III} 5	27 [°] 11	26 [°] 21	19 [°] 11	24 [°] 13	21 [°] 40	26 [°] 48	5 [°] 37	6 [°] 30	10 [°] 48	25 [°] 54	W 9
T 10	17 14 12	19 [°] 9'21	18 [°] 20	11 [°] 55	1 [°] 19	27 [°] 34	26 [°] 28	19 [°] 7	24 [°] 12	21 [°] 39	26 [°] 49	5 [°] R37	6 [°] 27	10 [°] 54	25 [°] 54	T 10
F 11	17 18 8	20 [°] 6'38	2 ^{II} 34	11 [°] 30	2 [°] 32	27 [°] 57	26 [°] 35	19 [°] 4	24 [°] 12	21 [°] 38	26 [°] 50	5 [°] 37	6 [°] 24	11 [°] 1	25 [°] 53	F 11
S 12	17 22 5	21 [°] 3'53	16 [°] 56	11 [°] 8	3 [°] 46	28 [°] 20	26 [°] 41	19 [°] 0	24 [°] 11	21 [°] 36	26 [°] 52	5 [°] 36	6 [°] 20	11 [°] 8	25 [°] 52	S 12
S 13	17 26 1	22 [°] 1'08	1 ^{III} 23	10 [°] 49	4 [°] 59	28 [°] 44	26 [°] 48	18 [°] 56	24 [°] 11	21 [°] 35	26 [°] 53	5 [°] 34	6 [°] 17	11 [°] 14	25 [°] 52	S 13
M14	17 29 58	22 [°] 58'21	15 [°] 51	10 [°] 34	6 [°] 13	29 [°] 8	26 [°] 54	18 [°] 53	24 [°] 10	21 [°] 34	26 [°] 55	5 [°] 33	6 [°] 14	11 [°] 21	25 [°] 51	M14
T 15	17 33 55	23 [°] 55'35	0 ^{II} 14	10 [°] 23	7 [°] 26	29 [°] 33	27 [°] 0	18 [°] 49	24 [°] 9	21 [°] 32	26 [°] 56	5 [°] 31	6 [°] 11	11 [°] 28	25 [°] 50	T 15
W16	17 37 51	24 [°] 52'47	14 [°] 27	10 [°] 16	8 [°] 40	29 [°] 57	27 [°] 6	18 [°] 45	24 [°] 8	21 [°] 31	26 [°] 58	5 [°] 30	6 [°] 8	11 [°] 35	25 [°] 49	W16
T 17	17 41 48	25 [°] 50'00	28 [°] 26	10 [°] D14	9 [°] 53	0 ^{II} 23	27 [°] 12	18 [°] 41	24 [°] 7	21 [°] 29	26 [°] 59	5 [°] 30	6 [°] 5	11 [°] 41	25 [°] 48	T 17
F 18	17 45 44	26 [°] 47'12	12 ^{III} 6	10 [°] 17	11 [°] 7	0 [°] 48	27 [°] 18	18 [°] 37	24 [°] 6	21 [°] 28	27 [°] 1	5 [°] D30	6 [°] 1	11 [°] 48	25 [°] 47	F 18
S 19	17 49 41	27 [°] 44'23	25 [°] 27	10 [°] 24	12 [°] 20	1 [°] 14	27 [°] 23	18 [°] 33	24 [°] 5	21 [°] 27	27 [°] 2	5 [°] 30	5 [°] 58	11 [°] 55	25 [°] 45	S 19
S 20	17 53 37	28 [°] 41'35	8 ^{III} 27	10 [°] 36	13 [°] 34	1 [°] 40	27 [°] 29	18 [°] 30	24 [°] 4	21 [°] 25	27 [°] 4	5 [°] 31	5 [°] 55	12 [°] 2	25 [°] 44	S 20
M21	17 57 34	29 [°] 38'46	21 [°] 7	10 [°] 52	14 [°] 47	2 [°] 6	27 [°] 34	18 [°] 25	24 [°] 3	21 [°] 24	27 [°] 5	5 [°] 32	5 [°] 52	12 [°] 8	25 [°] 43	M21
T 22	18 1 31	0 ^{III} 35'57	3 ^{II} 30	11 [°] 14	16 [°] 1	2 [°] 33	27 [°] 39	18 [°] 21	24 [°] 2	21 [°] 22	27 [°] 6	5 [°] 32	5 [°] 49	12 [°] 15	25 [°] 42	T 22
W23	18 5 27	1 [°] 33'08	15 [°] 40	11 [°] 40	17 [°] 14	3 [°] 0	27 [°] 44	18 [°] 17	24 [°] 1	21 [°] 21	27 [°] 8	5 [°] 32	5 [°] 45	12 [°] 22	25 [°] 40	W23
T 24	18 9 24	2 [°] 30'20	27 [°] 40	12 [°] 11	18 [°] 28	3 [°] 27	27 [°] 48	18 [°] 13	24 [°] 0	21 [°] 19	27 [°] 9	5 [°] R33	5 [°] 42	12 [°] 28	25 [°] 39	T 24
F 25	18 13 20	3 [°] 27'31	9 [°] V34	12 [°] 46	19 [°] 41	3 [°] 54	27 [°] 53	18 [°] 9	23 [°] 59	21 [°] 18	27 [°] 11	5 [°] 33	5 [°] 39	12 [°] 35	25 [°] 37	F 25
S 26	18 17 17	4 [°] 24'42	21 [°] 28	13 [°] 26	20 [°] 54	4 [°] 22	27 [°] 57	18 [°] 5	23 [°] 58	21 [°] 16	27 [°] 12	5 [°] 33	5 [°] 36	12 [°] 42	25 [°] 36	S 26
S 27	18 21 13	5 [°] 21'54	3 ^{III} 25	14 [°] 11	22 [°] 8	4 [°] 50	28 [°] 1	18 [°] 1	23 [°] 56	21 [°] 15	27 [°] 14	5 [°] D33	5 [°] 33	12 [°] 49	25 [°] 34	S 27
M28	18 25 10	6 [°] 19'06	15 [°] 30	15 [°] 1	23 [°] 21	5 [°] 18	28 [°] 5	17 [°] 56	23 [°] 55	21 [°] 13	27 [°] 15	5 [°] 33	5 [°] 30	12 [°] 55	25 [°] 33	M28
T 29	18 29 6	7 [°] 16'18	27 [°] 46	15 [°] 54	24 [°] 35	5 [°] 47	28 [°] 9	17 [°] 52	23 [°] 54	21 [°] 11	27 [°] 17	5 [°] 33	5 [°] 26	13 [°] 2	25 [°] 31	T 29
W30	18 33 3	8 [°] II3'30	10 ^{II} 17	16 ^{II} 53	25 ^{III} 48	6 ^{II} 16	28 ^{II} 13	17 ^{III} 48	23 ^{III} 52	21 ^{III} 10	27 ^{II} 18	5 ^{III} 33	5 ^{III} 23	13 ^V 9	25 ^{III} 29	W30

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	22n 4	14n 1	3s46	20n56	1s54	23n37	0n30	2n53	0n43	2s56	1s11	21s49	0n14	14s 9	0s44	21s10	0n33	17n52	5s34	23n22	23n18	0s48	6s52	6n24															
W 2	22 12	17 44	2 54	20 36	2 11	23 45	0 32	2 44	0 41	2 53	1 11	21 50	0 14	14 9	0 44	21 10	0 33	17 52	5 34	23 22	23 18	0 45	6 52	6 24															
T 3	22 20	20 42	1 53	20 16	2 27	23 51	0 35	2 34	0 39	2 50	1 11	21 50	0 14	14 9	0 44	21 10	0 33	17 52	5 34	23 22	23 18	0 43	6 51	6 24															
F 4	22 27	22 41	0 46	19 57	2 43	23 57	0 37	2 25	0 37	2 47	1 11	21 51	0 14	14 9	0 44	21 10	0 33	17 53	5 34	23 22	23 19	0 40	6 51	6 25															
S 5	22 34	23 31	0n26	19 38	2 58	24 3	0 39	2 15	0 36	2 45	1 12	21 51	0 13	14 9	0 44	21 10	0 33	17 53	5 34	23 22	23 19	0 37	6 51	6 25															
S 6	22 40	23 2	1 37	19 21	3 12	24 7	0 41	2 5	0 34	2 42	1 12	21 52	0 13	14 10	0 44	21 10	0 33	17 53	5 34	23 22	23 19	0 35	6 51	6 26															
M 7	22 47	21 15	2 44	19 4	3 25	24 11	0 44	1 55	0 32	2 39	1 12	21 52	0 13	14 10	0 44	21 11	0 33	17 53	5 34	23 22	23 19	0 32	6 50	6 26															
T 8	22 52	18 13	3 43	18 48	3 37	24 14	0 46	1 44	0 31	2 37	1 12	21 53	0 13	14 10	0 44	21 11	0 33	17 53	5 34	23 22	23 19	0 29	6 50	6 26															
W 9	22 57	14 8	4 30	18 34	3 47	24 17	0 48	1 34	0 29	2 34	1 13	21 53	0 13	14 10	0 44	21 11	0 33	17 53	5 34	23 22	23 19	0 26	6 50	6 27															
T 10	23 2	9 14	5 1	18 21	3 57	24 18	0 50	1 23	0 27	2 31	1 13	21 54	0 13	14 10	0 44	21 11	0 33	17 53	5 33	23 22	23 19	0 24	6 50	6 27															
F 11	23 7	3 48	5 15	18 9	4 5	24 19	0 52	1 13	0 26	2 29	1 13	21 55	0 13	14 11	0 44	21 11	0 33	17 53	5 33	23 22	23 20	0 21	6 50	6 27															
S 12	23 11	1s54	5 9	18 0	4 12	24 20	0 54	1 2	0 24	2 27	1 13	21 55	0 13	14 11	0 44	21 12	0 33	17 53	5 33	23 22	23 20	0 18	6 50	6 28															
S 13	23 14	7 32	4 44	17 52	4 17	24 19	0 56	0 51	0 23	2 24	1 14	21 56	0 13	14 11	0 44	21 12	0 33	17 54	5 33	23 22	23 20	0 16	6 50	6 28															
M14	23 18	12 46	4 1	17 46	4 21	24 18	0 58	0 40	0 21	2 22	1 14	21 56	0 13	14 11	0 44	21 12	0 33	17 54	5 33	23 22	23 20	0 13	6 50	6 28															
T 15	23 21	17 15	3 3	17 42	4 23	24 16	1 0	0 29	0 19	2 20	1 14	21 57	0 13	14 12	0 44	21 12	0 33	17 54	5 33	23 22	23 20	0 10	6 50	6 29															
W16	23 23	20 41	1 54	17 40	4 25	24 14	1 2	0 17	0 18	2 18	1 15	21 58	0 13	14 12	0 45	21 13	0 33	17 54	5 33	23 22	23 20	0 8	6 50	6 29															
T 17	23 25	22 49	0 39	17 40	4 25	24 10	1 4	0 6	0 16	2 16	1 15	21 58	0 13	14 12	0 45	21 13	0 33	17 54	5 33	23 22	23 21	0 5	6 50	6 29															
F 18	23 27	23 32	0s37	17 41	4 23	24 6	1 6	0s 5	0 15	2 14	1 15	21 59	0 12	14 13	0 45	21 13	0 33	17 54	5 33	23 22	23 21	0 2	6 50	6 29															
S 19	23 28	22 57	1 48	17 45	4 21	24 2	1 7	0 17	0 14	2 12	1 15	21 59	0 12	14 13	0 45	21 13	0 33	17 54	5 33	23 22	23 21	0n 0	6 50	6 30															
S 20	23 29	20 52	2 52	17 50	4 17	23 56	1 9	0 29	0 12	2 10	1 16	22 0	0 12	14 13	0 45	21 13	0 33	17 54	5 33	23 22	23 21	0 3	6 50	6 30															
M21	23 29	18 3	3 47	17 57	4 13	23 50	1 11	0 40	0 11	2 8	1 16	22 1	0 12	14 14	0 45	21 14	0 33	17 54	5 33	23 22	23 21	0 6	6 50	6 30															
T 22	23 29	14 25	4 29	18 5	4 7	23 43	1 12	0 52	0 9	2 6	1 16	22 1	0 12	14 14	0 45	21 14	0 33	17 54	5 33	23 22	23 21	0 8	6 50	6 31															
W23	23 28	10 14	4 58	18 15	4 1	23 35	1 14	1 4	0 8	2 5	1 17	22 2	0 12	14 15	0 45	21 14	0 33	17 54	5 33	23 22	23 21	0 11	6 50	6 31															
T 24	23 28	5 44	5 14	18 26	3 53	23 27	1 15	1 16	0 7	2 3	1 17	22 3	0 12	14 15	0 45	21 14	0 33	17 54	5 33	23 22	23 22	0 14	6 51	6 31															
F 25	23 26	1 3	5 16	18 39	3 45	23 18	1 17	1 29	0 5	2 1	1 17	22 3	0 12	14 15	0 45	21 15	0 33	17 54	5 33	23 22	23 22	0 17	6 51	6 32															
S 26	23 25	3n40	5 5	18 53	3 36	23 9	1 18	1 41	0 4	2 0	1 17	22 4	0 12	14 16	0 45	21 15	0 33	17 55	5 33	23 22	23 22	0 19	6 51	6 32															
S 27	23 22	8 17	4 40	19 8	3 26	22 58	1 20	1 53	0 3	1 59	1 18	22 4	0 12	14 16	0 45	21 15	0 33	17 55	5 33	23 22	23 22	0 22	6 52	6 32															
M28	23 20	12 38	4 3	19 23	3 16	22 47	1 21	2 6	0 1	1 57	1 18	22 5	0 12	14 17	0 45	21 15	0 33	17 55	5 33	23 22	23 22	0 25	6 52	6 32															
T 29	23 17	16 32	3 14	19 40	3 5	22 36	1 22	2 18	0s 0	1 56	1 18	22 6	0 12	14 17	0 45	21 16	0 33	17 55	5 33	23 22	23 22	0 27	6 52	6 33															
W30	23n14	19n48	2s16	19n57	2s54	22n23	1n23	2s31	0s 1	1s55	1s19	22s 6	0n11	14s18	0s45	21s16	0n33	17n55	5s33	23n22	23n22	0n30	6s52	6n33															

ASTRODIENST EPHEMERIS for the year 1666
geocentric

JULY 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 37 0	9 ⁵⁰ 10'42	23 ^{II} 4	17 ^{II} 55	27 ⁵ 1	6 ⁴ 45	28 ^{II} 16	17 [°] R43	23 [°] R51	21 [°] R 8	27 ^{II} 19	5 ⁵⁰ 33	5 ⁵⁰ 20	13 [°] Y16	25 [°] R27	T 1
F 2	18 40 56	10 [°] 7'55	6 ⁵⁰ 8	19 [°] 2	28 [°] 15	7 [°] 14	28 [°] 20	17 [°] 39	23 [°] 49	21 [°] 7	27 [°] 21	5 [°] R33	5 [°] 17	13 [°] 22	25 [°] 25	F 2
S 3	18 44 53	11 [°] 5'08	19 [°] 30	20 [°] 13	29 [°] 28	7 [°] 44	28 [°] 23	17 [°] 35	23 [°] 48	21 [°] 5	27 [°] 22	5 [°] 33	5 [°] 14	13 [°] 29	25 [°] 24	S 3
S 4	18 48 49	12 [°] 2'21	3 ⁵⁰ 7	21 [°] 29	0 ⁵⁰ 41	8 [°] 14	28 [°] 26	17 [°] 30	23 [°] 46	21 [°] 4	27 [°] 24	5 [°] 33	5 [°] 11	13 [°] 36	25 [°] 22	S 4
M 5	18 52 46	12 [°] 59'34	16 [°] 57	22 [°] 48	1 [°] 55	8 [°] 44	28 [°] 28	17 [°] 26	23 [°] 45	21 [°] 2	27 [°] 25	5 [°] 32	5 [°] 7	13 [°] 42	25 [°] 20	M 5
T 6	18 56 42	13 [°] 56'46	0 ⁵⁰ 59	24 [°] 12	3 [°] 8	9 [°] 14	28 [°] 31	17 [°] 21	23 [°] 43	21 [°] 0	27 [°] 26	5 [°] 31	5 [°] 4	13 [°] 49	25 [°] 18	T 6
W 7	19 0 39	14 [°] 53'59	15 [°] 8	25 [°] 39	4 [°] 21	9 [°] 45	28 [°] 33	17 [°] 17	23 [°] 41	20 [°] 59	27 [°] 28	5 [°] 30	5 [°] 1	13 [°] 56	25 [°] 16	W 7
T 8	19 4 35	15 [°] 51'12	29 [°] 22	27 [°] 11	5 [°] 35	10 [°] 15	28 [°] 35	17 [°] 13	23 [°] 40	20 [°] 57	27 [°] 29	5 [°] 29	4 [°] 58	14 [°] 3	25 [°] 13	T 8
F 9	19 8 32	16 [°] 48'25	13 ⁵⁰ 37	28 [°] 46	6 [°] 48	10 [°] 46	28 [°] 37	17 [°] 8	23 [°] 38	20 [°] 56	27 [°] 31	5 [°] D29	4 [°] 55	14 [°] 9	25 [°] 11	F 9
S 10	19 12 29	17 [°] 45'37	27 [°] 51	0 ⁵⁰ 25	8 [°] 1	11 [°] 17	28 [°] 39	17 [°] 4	23 [°] 36	20 [°] 54	27 [°] 32	5 [°] 29	4 [°] 51	14 [°] 16	25 [°] 9	S 10
S 11	19 16 25	18 [°] 42'50	12 ⁵⁰ 1	2 [°] 7	9 [°] 15	11 [°] 49	28 [°] 40	16 [°] 59	23 [°] 34	20 [°] 52	27 [°] 33	5 [°] 30	4 [°] 48	14 [°] 23	25 [°] 7	S 11
M12	19 20 22	19 [°] 40'03	26 [°] 5	3 [°] 53	10 [°] 28	12 [°] 20	28 [°] 42	16 [°] 55	23 [°] 32	20 [°] 51	27 [°] 35	5 [°] 31	4 [°] 45	14 [°] 29	25 [°] 4	M12
T 13	19 24 18	20 [°] 37'16	10 ⁵⁰ 1	5 [°] 42	11 [°] 41	12 [°] 52	28 [°] 43	16 [°] 50	23 [°] 31	20 [°] 49	27 [°] 36	5 [°] 32	4 [°] 42	14 [°] 36	25 [°] 2	T 13
W14	19 28 15	21 [°] 34'30	23 [°] 46	7 [°] 34	12 [°] 54	13 [°] 24	28 [°] 44	16 [°] 46	23 [°] 29	20 [°] 47	27 [°] 37	5 [°] 33	4 [°] 39	14 [°] 43	25 [°] 0	W14
T 15	19 32 11	22 [°] 31'44	7 ⁵⁰ 20	9 [°] 29	14 [°] 7	13 [°] 57	28 [°] 45	16 [°] 42	23 [°] 27	20 [°] 46	27 [°] 39	5 [°] R33	4 [°] 36	14 [°] 50	24 [°] 57	T 15
F 16	19 36 8	23 [°] 28'58	20 [°] 40	11 [°] 27	15 [°] 21	14 [°] 29	28 [°] 45	16 [°] 37	23 [°] 25	20 [°] 44	27 [°] 40	5 [°] 32	4 [°] 32	14 [°] 56	24 [°] 55	F 16
S 17	19 40 4	24 [°] 26'13	3 ⁵⁰ 45	13 [°] 27	16 [°] 34	15 [°] 2	28 [°] 46	16 [°] 33	23 [°] 23	20 [°] 43	27 [°] 42	5 [°] 31	4 [°] 29	15 [°] 3	24 [°] 52	S 17
S 18	19 44 1	25 [°] 23'29	16 [°] 34	15 [°] 28	17 [°] 47	15 [°] 34	28 [°] R46	16 [°] 29	23 [°] 21	20 [°] 41	27 [°] 43	5 [°] 29	4 [°] 26	15 [°] 10	24 [°] 50	S 18
M19	19 47 58	26 [°] 20'45	29 [°] 8	17 [°] 32	19 [°] 0	16 [°] 7	28 [°] 46	16 [°] 24	23 [°] 19	20 [°] 39	27 [°] 44	5 [°] 26	4 [°] 23	15 [°] 17	24 [°] 47	M19
T 20	19 51 54	27 [°] 18'02	11 ⁵⁰ 36	19 [°] 36	20 [°] 13	16 [°] 40	28 [°] 46	16 [°] 20	23 [°] 17	20 [°] 38	27 [°] 45	5 [°] 22	4 [°] 20	15 [°] 23	24 [°] 45	T 20
W21	19 55 51	28 [°] 15'19	23 [°] 37	21 [°] 42	21 [°] 26	17 [°] 14	28 [°] 45	16 [°] 16	23 [°] 15	20 [°] 36	27 [°] 47	5 [°] 19	4 [°] 17	15 [°] 30	24 [°] 42	W21
T 22	19 59 47	29 [°] 12'38	5 ⁵⁰ 36	23 [°] 48	22 [°] 39	17 [°] 47	28 [°] 45	16 [°] 11	23 [°] 13	20 [°] 34	27 [°] 48	5 [°] 16	4 [°] 13	15 [°] 37	24 [°] 39	T 22
F 23	20 3 44	0 ⁵⁰ 9'57	17 [°] 30	25 [°] 54	23 [°] 53	18 [°] 21	28 [°] 44	16 [°] 7	23 [°] 10	20 [°] 33	27 [°] 49	5 [°] 15	4 [°] 10	15 [°] 43	24 [°] 37	F 23
S 24	20 7 40	1 [°] 7'18	29 [°] 23	28 [°] 1	25 [°] 6	18 [°] 55	28 [°] 43	16 [°] 3	23 [°] 8	20 [°] 31	27 [°] 50	5 [°] D14	4 [°] 7	15 [°] 50	24 [°] 34	S 24
S 25	20 11 37	2 [°] 4'40	11 ⁵⁰ 20	0 ⁵⁰ 7	26 [°] 19	19 [°] 29	28 [°] 42	15 [°] 59	23 [°] 6	20 [°] 30	27 [°] 52	5 [°] 14	4 [°] 4	15 [°] 57	24 [°] 31	S 25
M26	20 15 33	3 [°] 2'03	23 [°] 25	2 [°] 13	27 [°] 32	20 [°] 3	28 [°] 40	15 [°] 55	23 [°] 4	20 [°] 28	27 [°] 53	5 [°] 15	4 [°] 1	16 [°] 4	24 [°] 28	M26
T 27	20 19 30	3 [°] 59'27	5 ⁵⁰ 43	4 [°] 18	28 [°] 45	20 [°] 38	28 [°] 39	15 [°] 51	23 [°] 2	20 [°] 27	27 [°] 54	5 [°] 17	3 [°] 57	16 [°] 10	24 [°] 26	T 27
W28	20 23 27	4 [°] 56'52	18 [°] 18	6 [°] 23	29 [°] 58	21 [°] 12	28 [°] 37	15 [°] 47	23 [°] 0	20 [°] 25	27 [°] 55	5 [°] 19	3 [°] 54	16 [°] 17	24 [°] 23	W28
T 29	20 27 23	5 [°] 54'18	1 ⁵⁰ 14	8 [°] 26	1 ⁵⁰ 11	21 [°] 47	28 [°] 35	15 [°] 42	22 [°] 57	20 [°] 23	27 [°] 57	5 [°] R19	3 [°] 51	16 [°] 24	24 [°] 20	T 29
F 30	20 31 20	6 [°] 51'46	14 [°] 32	10 [°] 29	2 [°] 24	22 [°] 22	28 [°] 33	15 [°] 39	22 [°] 55	20 [°] 22	27 [°] 58	5 [°] 19	3 [°] 48	16 [°] 30	24 [°] 17	F 30
S 31	20 35 16	7 ⁵⁰ 49'14	28 ⁵⁰ 12	12 ⁵⁰ 30	3 ⁵⁰ 37	22 ⁵⁰ 57	28 ⁵⁰ 31	15 ⁵⁰ 35	22 ⁵⁰ 53	20 ⁵⁰ 20	27 ⁵⁰ 59	5 ⁵⁰ 17	3 ⁵⁰ 45	16 ⁵⁰ 37	24 ⁵⁰ 14	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1666
geocentric

AUGUST 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	20 39 13	8♌46'44	12♏13	14♍29	4♎50	23♎32	28°R28	15°R31	22°R51	20°R19	28♐0	5°R14	3♑42	16♒44	24°R11	S 1
M 2	20 43 9	9°44'14	26°31	16°28	6° 2	24° 8	28♐25	15°R27	22°R48	20°R17	28° 1	5♑10	3°38	16°51	24°R8	M 2
T 3	20 47 6	10°41'46	11♎0	18°25	7°15	24°44	28°22	15°23	22°46	20°16	28° 2	5° 4	3°35	16°57	24° 5	T 3
W 4	20 51 2	11°39'18	25°35	20°20	8°28	25°19	28°19	15°19	22°44	20°14	28° 3	4°59	3°32	17° 4	24° 3	W 4
T 5	20 54 59	12°36'51	10♌8	22°14	9°41	25°55	28°16	15°16	22°41	20°13	28° 5	4°55	3°29	17°11	24° 0	T 5
F 6	20 58 56	13°34'25	24°35	24° 7	10°54	26°31	28°12	15°12	22°39	20°11	28° 6	4°52	3°26	17°18	23°57	F 6
S 7	21 2 52	14°32'00	8♎51	25°58	12° 7	27° 7	28° 9	15° 8	22°37	20°10	28° 7	4°D50	3°23	17°24	23°54	S 7
S 8	21 6 49	15°29'36	22°54	27°47	13°20	27°44	28° 5	15° 5	22°34	20° 9	28° 8	4°51	3°19	17°31	23°51	S 8
M 9	21 10 45	16°27'13	6♌43	29°35	14°32	28°20	28° 1	15° 1	22°32	20° 7	28° 9	4°52	3°16	17°38	23°47	M 9
T 10	21 14 42	17°24'51	20°18	1♎22	15°45	28°57	27°57	14°58	22°29	20° 6	28°10	4°53	3°13	17°44	23°44	T 10
W11	21 18 38	18°22'30	3♑40	3° 7	16°58	29°34	27°52	14°55	22°27	20° 4	28°11	4°R54	3°10	17°51	23°41	W11
T 12	21 22 35	19°20'10	16°49	4°50	18°10	0♎11	27°48	14°52	22°25	20° 3	28°12	4°53	3° 7	17°58	23°38	T 12
F 13	21 26 31	20°17'51	29°47	6°32	19°23	0°48	27°43	14°48	22°22	20° 2	28°13	4°50	3° 3	18° 5	23°35	F 13
S 14	21 30 28	21°15'34	12♎33	8°13	20°36	1°25	27°38	14°45	22°20	20° 0	28°14	4°46	3° 0	18°11	23°32	S 14
S 15	21 34 25	22°13'18	25° 7	9°52	21°48	2° 2	27°33	14°42	22°17	19°59	28°15	4°39	2°57	18°18	23°29	S 15
M16	21 38 21	23°11'03	7♌31	11°30	23° 1	2°40	27°28	14°39	22°15	19°58	28°16	4°31	2°54	18°25	23°26	M16
T 17	21 42 18	24° 8'49	19°44	13° 7	24°14	3°18	27°22	14°36	22°13	19°56	28°17	4°21	2°51	18°31	23°23	T 17
W18	21 46 14	25° 6'37	1♒47	14°42	25°26	3°55	27°17	14°33	22°10	19°55	28°17	4°12	2°48	18°38	23°20	W18
T 19	21 50 11	26° 4'27	13°44	16°15	26°39	4°33	27°11	14°31	22° 8	19°54	28°18	4° 4	2°44	18°45	23°17	T 19
F 20	21 54 7	27° 2'19	25°36	17°48	27°51	5°11	27° 5	14°28	22° 6	19°53	28°19	3°58	2°41	18°52	23°14	F 20
S 21	21 58 4	28° 0'12	7♌28	19°18	29° 3	5°49	26°59	14°25	22° 3	19°51	28°20	3°53	2°38	18°58	23°11	S 21
S 22	22 2 0	28°58'07	19°22	20°48	0♌16	6°28	26°53	14°23	22° 1	19°50	28°21	3°51	2°35	19° 5	23° 8	S 22
M23	22 5 57	29°56'04	1♎25	22°16	1°28	7° 6	26°47	14°20	21°58	19°49	28°22	3°D50	2°32	19°12	23° 5	M23
T 24	22 9 54	0♎54'03	13°41	23°43	2°41	7°45	26°41	14°18	21°56	19°48	28°22	3°51	2°29	19°18	23° 2	T 24
W25	22 13 50	1°52'04	26°14	25° 8	3°53	8°23	26°34	14°16	21°54	19°47	28°23	3°52	2°25	19°25	22°59	W25
T 26	22 17 47	2°50'06	9♑11	26°32	5° 5	9° 2	26°28	14°14	21°51	19°46	28°24	3°R52	2°22	19°32	22°56	T 26
F 27	22 21 43	3°48'11	22°34	27°54	6°18	9°41	26°21	14°12	21°49	19°45	28°25	3°50	2°19	19°39	22°53	F 27
S 28	22 25 40	4°46'17	6♏24	29°15	7°30	10°20	26°14	14°10	21°47	19°44	28°25	3°46	2°16	19°45	22°50	S 28
S 29	22 29 36	5°44'26	20°40	0♌34	8°42	10°59	26° 7	14° 8	21°44	19°43	28°26	3°40	2°13	19°52	22°47	S 29
M30	22 33 33	6°42'36	5♎19	1°52	9°54	11°38	26° 0	14° 6	21°42	19°42	28°27	3°32	2° 9	19°59	22°44	M30
T 31	22 37 29	7♎40'47	20♎12	3♌8	11♌6	12♎18	25°R53	14°R4	21°R40	19°R41	28°R27	3°R22	2°R6	20°R5	22°R41	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	18n 6	20n10	3n 8	18n12	1n46	11n 6	1n27	9s42	0s35	1s58	1s28	22s26	0n 9	14s39	0s46	21s24
M 2	17 51	16 30	4 3	17 36	1 45	10 38	1 25	9 56	0 36	1 59	1 29	22 27	0 9	14 40	0 46	21 24
T 3	17 35	11 49	4 44	16 58	1 43	10 10	1 24	10 10	0 37	2 0	1 29	22 27	0 8	14 40	0 46	21 24
W 4	17 19	6 26	5 6	16 20	1 41	9 41	1 23	10 24	0 38	2 2	1 29	22 28	0 8	14 41	0 46	21 25
T 5	17 3 0	4 43	5 9	15 40	1 38	9 13	1 22	10 38	0 39	2 4	1 29	22 28	0 8	14 42	0 46	21 25
F 6	16 47	5s 0	4 52	15 0	1 35	8 44	1 20	10 52	0 40	2 5	1 30	22 29	0 8	14 43	0 46	21 25
S 7	16 30	10 24	4 18	14 19	1 31	8 15	1 19	11 6	0 40	2 7	1 30	22 29	0 8	14 43	0 46	21 25
S 8	16 13	15 11	3 28	13 37	1 27	7 45	1 17	11 20	0 41	2 9	1 30	22 30	0 8	14 44	0 46	21 26
M 9	15 56	19 4	2 27	12 55	1 22	7 16	1 16	11 33	0 42	2 10	1 31	22 30	0 8	14 45	0 46	21 26
T 10	15 39	21 50	1 18	12 13	1 17	6 46	1 14	11 47	0 43	2 12	1 31	22 31	0 8	14 46	0 46	21 26
W11	15 21	23 19	0 7	11 30	1 12	6 16	1 12	12 1	0 44	2 14	1 31	22 31	0 8	14 47	0 46	21 26
T 12	15 3	23 29	1s 4	10 47	1 6	5 46	1 11	12 15	0 44	2 16	1 31	22 32	0 8	14 47	0 46	21 27
F 13	14 45	22 21	2 10	10 3	1 0	5 16	1 9	12 29	0 45	2 19	1 32	22 32	0 8	14 48	0 46	21 27
S 14	14 26	20 5	3 9	9 20	0 54	4 45	1 7	12 42	0 46	2 21	1 32	22 32	0 7	14 49	0 46	21 27
S 15	14 8	16 53	3 57	8 36	0 47	4 15	1 5	12 56	0 47	2 23	1 32	22 33	0 7	14 50	0 46	21 27
M16	13 49	12 59	4 33	7 53	0 40	3 44	1 3	13 10	0 47	2 25	1 32	22 33	0 7	14 50	0 46	21 27
T 17	13 30	8 37	4 56	7 9	0 33	3 14	1 1	13 23	0 48	2 28	1 32	22 34	0 7	14 51	0 46	21 28
W18	13 10	3 58	5 6	6 26	0 25	2 43	0 58	13 37	0 49	2 30	1 33	22 34	0 7	14 52	0 46	21 28
T 19	12 51	0n48	5 2	5 42	0 18	2 12	0 56	13 50	0 50	2 32	1 33	22 35	0 7	14 53	0 46	21 28
F 20	12 31	5 30	4 45	4 59	0 10	1 41	0 54	14 4	0 50	2 35	1 33	22 35	0 7	14 54	0 46	21 28
S 21	12 11	10 0	4 16	4 16	0 2	1 10	0 51	14 17	0 51	2 38	1 33	22 35	0 7	14 54	0 46	21 28
S 22	11 51	14 9	3 35	3 34	0s 6	0 39	0 49	14 31	0 52	2 40	1 34	22 36	0 7	14 55	0 46	21 29
M23	11 31	17 48	2 45	2 51	0 14	0 8	0 47	14 44	0 52	2 43	1 34	22 36	0 7	14 56	0 46	21 29
T 24	11 10	20 44	1 46	2 9	0 22	0s24	0 44	14 57	0 53	2 46	1 34	22 36	0 6	14 57	0 46	21 29
W25	10 50	22 45	0 41	1 28	0 31	0 55	0 41	15 10	0 54	2 48	1 34	22 37	0 6	14 57	0 46	21 29
T 26	10 29	23 38	0n28	0 47	0 39	1 26	0 39	15 24	0 54	2 51	1 34	22 37	0 6	14 58	0 46	21 29
F 27	10 8	23 12	1 38	0 6	0 48	1 57	0 36	15 37	0 55	2 54	1 35	22 37	0 6	14 59	0 46	21 30
S 28	9 47	21 22	2 44	0s34	0 57	2 28	0 33	15 50	0 56	2 57	1 35	22 38	0 6	15 0	0 46	21 30
S 29	9 25	18 8	3 42	1 14	1 5	2 59	0 30	16 2	0 56	3 0	1 35	22 38	0 6	15 0	0 46	21 30
M30	9 4	13 43	4 27	1 53	1 14	3 30	0 28	16 15	0 57	3 3	1 35	22 38	0 6	15 1	0 46	21 30
T 31	8n42	8n24	4n55	2s31	1s23	4s 1	0n25	16s28	0s57	3s 6	1s35	22s39	0n 6	15s 2	0s46	21s30

Julian Day Number = 2329766.5, Delta T = 31.96 sec
Ecliptic obliquity = 23°28'57", Nutation = - 0°00'16", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'11, Lahiri = 19°12'11Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1666
geocentric

SEPTEMBER 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	22 41 26	8♍39°01	5♊12	4♊22	12♊19	12♍57	25°R46	14°R 2	21°R38	19°R40	28♊28	3°R13	2♊3	20♊12	22°R38	W 1
T 2	22 45 23	9°37'16	20° 9	5°35	13°31	13°37	25°K38	14°R 1	21°K35	19°R39	28°28	3°D 4	2° 0	20°19	22°K35	T 2
F 3	22 49 19	10°35'32	4♍54	6°45	14°43	14°17	25°31	13°59	21°33	19°38	28°29	2°58	1°57	20°26	22°32	F 3
S 4	22 53 16	11°33'50	19°22	7°54	15°55	14°57	25°23	13°58	21°31	19°37	28°30	2°53	1°54	20°32	22°29	S 4
S 5	22 57 12	12°32'10	3♊29	9° 1	17° 7	15°37	25°16	13°57	21°29	19°36	28°30	2°52	1°50	20°39	22°27	S 5
M 6	23 1 9	13°30'31	17°14	10° 5	18°19	16°17	25° 8	13°55	21°27	19°36	28°31	2°D51	1°47	20°46	22°24	M 6
T 7	23 5 5	14°28'54	0♊39	11° 8	19°31	16°57	25° 0	13°54	21°24	19°35	28°31	2°R52	1°44	20°52	22°21	T 7
W 8	23 9 2	15°27'18	13°47	12° 7	20°42	17°37	24°52	13°53	21°22	19°34	28°32	2°51	1°41	20°59	22°18	W 8
T 9	23 12 58	16°25'44	26°39	13° 4	21°54	18°18	24°45	13°52	21°20	19°33	28°32	2°49	1°38	21° 6	22°16	T 9
F 10	23 16 55	17°24'12	9♊18	13°59	23° 6	18°58	24°37	13°52	21°18	19°33	28°32	2°44	1°34	21°13	22°13	F 10
S 11	23 20 52	18°22'41	21°47	14°50	24°18	19°39	24°29	13°51	21°16	19°32	28°33	2°37	1°31	21°19	22°10	S 11
S 12	23 24 48	19°21'13	4♊6	15°38	25°30	20°20	24°21	13°50	21°14	19°31	28°33	2°26	1°28	21°26	22° 8	S 12
M13	23 28 45	20°19'45	16°18	16°23	26°41	21° 1	24°13	13°50	21°12	19°31	28°34	2°14	1°25	21°33	22° 5	M13
T 14	23 32 41	21°18'20	28°22	17° 4	27°53	21°42	24° 5	13°49	21°10	19°30	28°34	2° 0	1°22	21°39	22° 3	T 14
W15	23 36 38	22°16'57	10♊20	17°40	29° 4	22°23	23°57	13°49	21° 8	19°30	28°34	1°46	1°19	21°46	22° 0	W15
T 16	23 40 34	23°15'36	22°14	18°13	0♍16	23° 4	23°49	13°49	21° 6	19°29	28°35	1°34	1°15	21°53	21°58	T 16
F 17	23 44 31	24°14'17	4♊4	18°41	1°27	23°45	23°41	13°49	21° 4	19°29	28°35	1°23	1°12	22° 0	21°55	F 17
S 18	23 48 27	25°13'00	15°55	19° 4	2°39	24°27	23°33	13°D49	21° 3	19°28	28°35	1°15	1° 9	22° 6	21°53	S 18
S 19	23 52 24	26°11'45	27°48	19°21	3°50	25° 8	23°25	13°49	21° 1	19°28	28°35	1°10	1° 6	22°13	21°50	S 19
M20	23 56 20	27°10'33	9♊49	19°33	5° 2	25°50	23°17	13°49	20°59	19°27	28°36	1° 7	1° 3	22°20	21°48	M20
T 21	0 0 17	28° 9'23	22° 1	19°R38	6°13	26°31	23° 9	13°49	20°57	19°27	28°36	1° 7	1° 0	22°26	21°46	T 21
W22	0 4 14	29° 8'15	4♊31	19°37	7°24	27°13	23° 1	13°49	20°55	19°27	28°36	1° 7	0°56	22°33	21°44	W22
T 23	0 8 10	0♊7'10	17°23	19°29	8°35	27°55	22°53	13°50	20°54	19°27	28°36	1° 6	0°53	22°40	21°41	T 23
F 24	0 12 7	1° 6'07	0♊42	19°13	9°46	28°37	22°45	13°50	20°52	19°26	28°36	1° 4	0°50	22°47	21°39	F 24
S 25	0 16 3	2° 5'06	14°30	18°50	10°58	29°19	22°37	13°51	20°50	19°26	28°36	1° 0	0°47	22°53	21°37	S 25
S 26	0 20 0	3° 4'07	28°48	18°20	12° 9	0♊1	22°30	13°52	20°49	19°26	28°36	0°53	0°44	23° 0	21°35	S 26
M27	0 23 56	4° 3'11	13♍33	17°42	13°20	0°43	22°22	13°53	20°47	19°26	28°36	0°43	0°40	23° 7	21°33	M27
T 28	0 27 53	5° 2'17	28°38	16°56	14°31	1°26	22°14	13°54	20°46	19°26	28°R36	0°32	0°37	23°13	21°31	T 28
W29	0 31 49	6° 1'24	13♊54	16° 3	15°42	2° 8	22° 7	13°55	20°44	19°26	28°36	0°21	0°34	23°20	21°29	W29
T 30	0 35 46	7♊0'34	29♊10	15♊5	16♍52	2♊51	21°K59	13°R56	20°K43	19°R25	28♊36	0°D10	0°D31	23°Y27	21°K27	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
W 1	8n20	2n33	5n 3	3s 9	1s32	4s32	0n22	16s41	0s58	3s 9	1s35	22s39	0n 6	15s 3	0s46	21s30	0n32	17n54	5s34	23n27	23n28	3n23	7s44	6n37			
T 2	7 59	3s25	4 50	3 45	1 41	5 3	0 19	16 53	0 59	3 12	1 35	22 39	0 6	15 3	0 46	21 31	0 32	17 54	5 34	23 27	23 28	3 25	7 45	6 37			
F 3	7 37	9 8	4 17	4 22	1 49	5 34	0 16	17 6	0 59	3 15	1 36	22 39	0 6	15 4	0 46	21 31	0 32	17 54	5 34	23 27	23 28	3 28	7 46	6 37			
S 4	7 14	14 15	3 29	4 57	1 58	6 5	0 13	17 18	1 0	3 18	1 36	22 40	0 5	15 5	0 46	21 31	0 32	17 54	5 34	23 27	23 28	3 31	7 47	6 36			
S 5	6 52	18 27	2 29	5 31	2 6	6 35	0 9	17 30	1 0	3 21	1 36	22 40	0 5	15 5	0 46	21 31	0 32	17 54	5 35	23 27	23 28	3 34	7 48	6 36			
M 6	6 30	21 31	1 22	6 4	2 15	7 6	0 6	17 43	1 1	3 24	1 36	22 40	0 5	15 6	0 46	21 31	0 32	17 54	5 35	23 27	23 28	3 36	7 49	6 36			
T 7	6 7	23 17	0 12	6 36	2 23	7 36	0 3	17 55	1 1	3 27	1 36	22 40	0 5	15 7	0 46	21 31	0 32	17 54	5 35	23 27	23 28	3 39	7 50	6 36			
W 8	5 45	23 43	0s58	7 7	2 32	8 6	0s 0	18 7	1 2	3 31	1 36	22 40	0 5	15 7	0 46	21 31	0 32	17 54	5 35	23 27	23 28	3 42	7 51	6 36			
T 9	5 22	22 52	2 3	7 37	2 40	8 36	0 3	18 19	1 3	3 34	1 36	22 41	0 5	15 8	0 46	21 31	0 32	17 54	5 35	23 27	23 28	3 45	7 53	6 35			
F 10	4 59	20 51	3 0	8 6	2 47	9 6	0 7	18 30	1 3	3 37	1 36	22 41	0 5	15 9	0 46	21 32	0 32	17 54	5 35	23 27	23 28	3 48	7 54	6 35			
S 11	4 36	17 52	3 48	8 33	2 55	9 36	0 10	18 42	1 4	3 40	1 36	22 41	0 5	15 9	0 46	21 32	0 32	17 54	5 35	23 27	23 28	3 50	7 55	6 35			
S 12	4 13	14 7	4 25	8 58	3 2	10 5	0 13	18 53	1 4	3 44	1 36	22 41	0 5	15 10	0 46	21 32	0 32	17 53	5 35	23 28	23 28	3 53	7 56	6 35			
M13	3 50	9 51	4 49	9 22	3 9	10 34	0 17	19 5	1 5	3 47	1 37	22 41	0 5	15 11	0 46	21 32	0 32	17 53	5 35	23 28	23 29	3 56	7 57	6 34			
T 14	3 27	5 13	4 59	9 44	3 16	11 3	0 20	19 16	1 5	3 50	1 37	22 41	0 5	15 11	0 46	21 32	0 32	17 53	5 35	23 28	23 29	3 59	7 58	6 34			
W15	3 4	0 27	4 57	10 3	3 22	11 32	0 24	19 27	1 6	3 53	1 37	22 41	0 4	15 12	0 46	21 32	0 32	17 53	5 35	23 28	23 29	4 1	7 59	6 34			
T 16	2 41	4n19	4 41	10 21	3 28	12 1	0 27	19 38	1 6	3 56	1 37	22 42	0 4	15 13	0 46	21 32	0 32	17 53	5 35	23 28	23 29	4 4	8 0	6 34			
F 17	2 18	8 55	4 13	10 37	3 33	12 29	0 31	19 49	1 7	4 0	1 37	22 42	0 4	15 13	0 46	21 32	0 32	17 53	5 35	23 29	23 29	4 7	8 1	6 33			
S 18	1 54	13 12	3 35	10 49	3 37	12 57	0 34	20 0	1 7	4 3	1 37	22 42	0 4	15 14	0 46	21 32	0 32	17 53	5 36	23 29	23 29	4 10	8 2	6 33			
S 19	1 31	17 0	2 46	10 59	3 41	13 25	0 38	20 10	1 7	4 6	1 37	22 42	0 4	15 14	0 45	21 33	0 32	17 53	5 36	23 29	23 29	4 12	8 3	6 33			
M20	1 7	20 9	1 50	11 7	3 44	13 52	0 41	20 21	1 8	4 9	1 37	22 42	0 4	15 15	0 45	21 33	0 32	17 53	5 36	23 29	23 29	4 15	8 4	6 32			
T 21	0 44	22 27	0 48	11 10	3 46	14 19	0 45	20 31	1 8	4 12	1 37	22 42	0 4	15 15	0 45	21 33	0 32	17 53	5 36	23 29	23 29	4 18	8 5	6 32			
W22	0 21	23 42	0n18	11 11	3 47	14 46	0 48	20 41	1 9	4 15	1 37	22 42	0 4	15 16	0 45	21 33	0 32	17 53	5 36	23 29	23 29	4 21	8 6	6 32			
T 23	0s 3	23 45	1 25	11 7	3 46	15 12	0 52	20 51	1 9	4 19	1 37	22 42	0 4	15 16	0 45	21 33	0 32	17 53	5 36	23 29	23 29	4 24	8 7	6 31			
F 24	0 26	22 28	2 29	11 0	3 45	15 39	0 55	21 1	1 10	4 22	1 37	22 42	0 4	15 17	0 45	21 33	0 32	17 53	5 36	23 29	23 29	4 26	8 8	6 31			
S 25	0 50	19 49	3 28	10 48	3 41	16 4	0 59	21 11	1 10	4 25	1 37	22 42	0 4	15 17	0 45	21 33	0 32	17 52	5 36	23 29	23 29	4 29	8 9	6 31			
S 26	1 13	15 54	4 15	10 32	3 37	16 30	1 2	21 20	1 10	4 28	1 37	22 42	0 3	15 18	0 45	21 33	0 32	17 52	5 36	23 29	23 29	4 32	8 10	6 31			
M27	1 37	10 54	4 47	10 12	3 30	16 55	1 6	21 29	1 11	4 31	1 37	22 42	0 3	15 18	0 45	21 33	0 32	17 52	5 36	23 29	23 29	4 35	8 11	6 30			
T 28	2 0	5 8	5 0	9 47	3 22	17 19	1 9	21 39	1 11	4 34	1 37	22 42	0 3	15 19	0 45	21 33	0 32	17 52	5 36	23 29	23 29	4 37	8 12	6 30			
W29	2 24	1s 1	4 52	9 17	3 12	17 44	1 13	21 48	1 11	4 37	1 36	22 42	0 3	15 19	0 45	21 33	0 32	17 52	5 36	23 29	23 29	4 40	8 13	6 29			
T 30	2s47	7s 5	4n23	8s43	3s 0	18s 8	1s16	21s56	1s12	4s40	1s36	22s42	0n 3	15s20	0s45	21s33	0n32	17n52	5s36	23n29	23n29	4n43	8s14	6n29			

ASTRODIENST EPHEMERIS for the year 1666
geocentric

OCTOBER 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	0 39 43	7♂59'46	14♂13	14°R 1	18♂ 3	3♂33	21°R52	13♂57	20°R42	19°D25	28°R36	0°R 2	0♂28	23°Y34	21°R26	F 1
S 2	0 43 39	8°59'00	28°57	12♂53	19°14	4°16	21♂44	13°58	20♂40	19♂25	28♂36	29♂57	0°25	23°40	21♂24	S 2
S 3	0 47 36	9°58'15	13♂16	11°42	20°25	4°59	21°37	14° 0	20°39	19°25	28°36	29°54	0°21	23°47	21°22	S 3
M 4	0 51 32	10°57'33	27° 8	10°31	21°35	5°42	21°30	14° 1	20°38	19°26	28°36	29°D53	0°18	23°54	21°20	M 4
T 5	0 55 29	11°56'52	10♂35	9°22	22°46	6°25	21°23	14° 3	20°36	19°26	28°36	29°R54	0°15	24° 0	21°19	T 5
W 6	0 59 25	12°56'13	23°38	8°16	23°56	7° 8	21°16	14° 5	20°35	19°26	28°36	29°53	0°12	24° 7	21°17	W 6
T 7	1 3 22	13°55'35	6♂23	7°15	25° 7	7°51	21° 9	14° 7	20°34	19°26	28°36	29°51	0° 9	24°14	21°16	T 7
F 8	1 7 18	14°55'00	18°52	6°21	26°17	8°34	21° 2	14° 9	20°33	19°26	28°35	29°47	0° 6	24°21	21°14	F 8
S 9	1 11 15	15°54'26	1♂ 9	5°36	27°27	9°18	20°56	14°11	20°32	19°26	28°35	29°40	0° 2	24°27	21°13	S 9
S 10	1 15 12	16°53'54	13°17	5° 0	28°38	10° 1	20°49	14°13	20°31	19°27	28°35	29°30	29♂59	24°34	21°12	S 10
M 11	1 19 8	17°53'24	25°19	4°35	29°48	10°45	20°43	14°15	20°30	19°27	28°35	29°18	29°56	24°41	21°10	M 11
T 12	1 23 5	18°52'55	7°Y16	4°21	0♂58	11°28	20°37	14°17	20°29	19°27	28°34	29° 4	29°53	24°47	21° 9	T 12
W 13	1 27 1	19°52'29	19° 9	4°D18	2° 8	12°12	20°31	14°20	20°28	19°28	28°34	28°51	29°50	24°54	21° 8	W 13
T 14	1 30 58	20°52'05	1♂ 1	4°26	3°18	12°55	20°25	14°22	20°27	19°28	28°34	28°39	29°46	25° 1	21° 7	T 14
F 15	1 34 54	21°51'43	12°52	4°45	4°27	13°39	20°19	14°25	20°27	19°29	28°33	28°28	29°43	25° 8	21° 6	F 15
S 16	1 38 51	22°51'23	24°45	5°14	5°37	14°23	20°14	14°27	20°26	19°29	28°33	28°21	29°40	25°14	21° 5	S 16
S 17	1 42 47	23°51'05	6♂41	5°52	6°47	15° 7	20° 8	14°30	20°25	19°30	28°32	28°16	29°37	25°21	21° 4	S 17
M 18	1 46 44	24°50'50	18°45	6°39	7°56	15°51	20° 3	14°33	20°25	19°30	28°32	28°13	29°34	25°28	21° 3	M 18
T 19	1 50 41	25°50'36	0♂58	7°33	9° 6	16°35	19°58	14°36	20°24	19°31	28°32	28°D13	29°31	25°34	21° 2	T 19
W 20	1 54 37	26°50'25	13°27	8°34	10°15	17°19	19°53	14°39	20°23	19°31	28°31	28°14	29°27	25°41	21° 2	W 20
T 21	1 58 34	27°50'16	26°15	9°42	11°24	18° 4	19°48	14°42	20°23	19°32	28°31	28°R14	29°24	25°48	21° 1	T 21
F 22	2 2 30	28°50'10	9♂27	10°54	12°33	18°48	19°44	14°45	20°22	19°33	28°30	28°14	29°21	25°54	21° 0	F 22
S 23	2 6 27	29°50'05	23° 6	12°11	13°43	19°32	19°39	14°49	20°22	19°33	28°30	28°11	29°18	26° 1	21° 0	S 23
S 24	2 10 23	0♂50'03	7♂14	13°32	14°52	20°17	19°35	14°52	20°22	19°34	28°29	28° 6	29°15	26° 8	20°59	S 24
M 25	2 14 20	1°50'03	21°50	14°57	16° 0	21° 1	19°31	14°56	20°21	19°35	28°29	28° 0	29°11	26°15	20°59	M 25
T 26	2 18 16	2°50'05	6♂49	16°24	17° 9	21°46	19°27	14°59	20°21	19°36	28°28	27°51	29° 8	26°21	20°59	T 26
W 27	2 22 13	3°50'09	22° 4	17°53	18°18	22°31	19°23	15° 3	20°21	19°37	28°27	27°43	29° 5	26°28	20°58	W 27
T 28	2 26 9	4°50'15	7♂22	19°24	19°26	23°16	19°20	15° 6	20°21	19°38	28°27	27°35	29° 2	26°35	20°58	T 28
F 29	2 30 6	5°50'23	22°34	20°57	20°35	24° 0	19°17	15°10	20°21	19°38	28°26	27°29	28°59	26°41	20°58	F 29
S 30	2 34 3	6°50'33	7♂30	22°31	21°43	24°45	19°14	15°14	20°D21	19°39	28°25	27°25	28°56	26°48	20°58	S 30
S 31	2 37 59	7♂50'44	22♂ 1	24♂ 6	22♂51	25♂30	19♂11	15♂18	20♂21	19♂40	28♂25	27°D23	28♂52	26°Y55	20°D58	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
F 1	3s11	12s42	3n36	8s 5	2s46	18s31	1s20	22s 5	1s12	4s43	1s36	22s42	0n 3	15s20	0s45	21s33	0n32	17n52	5s37	23n29	23n29	4n46	8s15	6n29			
S 2	3 34	17 26	2 36	7 25	2 31	18 54	1 23	22 13	1 12	4 45	1 36	22 42	0 3	15 21	0 45	21 33	0 31	17 52	5 37	23 29	23 29	4 48	8 15	6 28			
S 3	3 57	21 0	1 27	6 41	2 14	19 17	1 27	22 22	1 13	4 48	1 36	22 42	0 3	15 21	0 45	21 33	0 31	17 52	5 37	23 29	23 29	4 51	8 16	6 28			
M 4	4 21	23 13	0 15	5 56	1 55	19 39	1 30	22 30	1 13	4 51	1 36	22 42	0 3	15 21	0 45	21 33	0 31	17 52	5 37	23 29	23 29	4 54	8 17	6 28			
T 5	4 44	24 0	0s56	5 11	1 36	20 0	1 33	22 37	1 13	4 54	1 36	22 42	0 3	15 22	0 45	21 33	0 31	17 52	5 37	23 29	23 29	4 57	8 18	6 27			
W 6	5 7	23 25	2 2	4 26	1 15	20 21	1 37	22 45	1 14	4 56	1 36	22 42	0 3	15 22	0 45	21 33	0 31	17 52	5 37	23 29	23 29	5 0	8 19	6 27			
T 7	5 30	21 37	3 0	3 43	0 55	20 42	1 40	22 53	1 14	4 59	1 36	22 41	0 3	15 22	0 45	21 33	0 31	17 52	5 37	23 29	23 29	5 2	8 20	6 27			
F 8	5 53	18 49	3 48	3 3	0 34	21 2	1 44	23 0	1 14	5 1	1 36	22 41	0 2	15 23	0 45	21 33	0 31	17 51	5 37	23 29	23 29	5 5	8 21	6 26			
S 9	6 16	15 13	4 25	2 27	0 14	21 22	1 47	23 7	1 15	5 4	1 35	22 41	0 2	15 23	0 45	21 33	0 31	17 51	5 37	23 29	23 29	5 8	8 21	6 26			
S 10	6 39	11 2	4 49	1 55	0n 5	21 41	1 50	23 14	1 15	5 6	1 35	22 41	0 2	15 23	0 45	21 33	0 31	17 51	5 37	23 29	23 29	5 11	8 22	6 25			
M11	7 2	6 27	5 0	1 28	0 23	21 59	1 53	23 20	1 15	5 9	1 35	22 41	0 2	15 24	0 45	21 33	0 31	17 51	5 37	23 29	23 29	5 13	8 23	6 25			
T 12	7 25	1 40	4 58	1 7	0 40	22 17	1 56	23 27	1 15	5 11	1 35	22 41	0 2	15 24	0 45	21 33	0 31	17 51	5 37	23 29	23 29	5 16	8 24	6 25			
W13	7 47	3n 9	4 43	0 52	0 56	22 35	2 0	23 33	1 16	5 13	1 35	22 41	0 2	15 24	0 45	21 33	0 31	17 51	5 37	23 29	23 29	5 19	8 24	6 24			
T 14	8 10	7 52	4 15	0 42	1 10	22 51	2 3	23 39	1 16	5 15	1 35	22 40	0 2	15 24	0 45	21 33	0 31	17 51	5 38	23 29	23 29	5 22	8 25	6 24			
F 15	8 32	12 17	3 36	0 38	1 22	23 8	2 6	23 44	1 16	5 17	1 35	22 40	0 2	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 25	8 26	6 23			
S 16	8 54	16 16	2 48	0 40	1 33	23 23	2 9	23 50	1 16	5 19	1 34	22 40	0 2	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 27	8 27	6 23			
S 17	9 16	19 37	1 52	0 47	1 42	23 38	2 11	23 55	1 17	5 21	1 34	22 40	0 2	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 30	8 27	6 23			
M18	9 38	22 10	0 50	0 58	1 49	23 53	2 14	24 0	1 17	5 23	1 34	22 40	0 2	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 33	8 28	6 22			
T 19	10 0	23 43	0n15	1 14	1 55	24 7	2 17	24 5	1 17	5 25	1 34	22 39	0 2	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 36	8 28	6 22			
W20	10 22	24 8	1 21	1 34	2 0	24 20	2 20	24 9	1 17	5 27	1 34	22 39	0 1	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 38	8 29	6 21			
T 21	10 43	23 18	2 24	1 57	2 3	24 33	2 23	24 14	1 17	5 29	1 33	22 39	0 1	15 25	0 45	21 33	0 31	17 51	5 38	23 28	23 29	5 41	8 30	6 21			
F 22	11 5	21 10	3 22	2 24	2 6	24 44	2 25	24 18	1 17	5 30	1 33	22 39	0 1	15 26	0 45	21 33	0 31	17 50	5 38	23 28	23 29	5 44	8 30	6 20			
S 23	11 26	17 47	4 11	2 53	2 7	24 56	2 28	24 22	1 18	5 32	1 33	22 38	0 1	15 26	0 45	21 33	0 31	17 50	5 38	23 28	23 29	5 47	8 31	6 20			
S 24	11 47	13 17	4 46	3 24	2 7	25 6	2 30	24 25	1 18	5 33	1 33	22 38	0 1	15 26	0 45	21 33	0 31	17 50	5 38	23 28	23 29	5 50	8 31	6 20			
M25	12 8	7 53	5 4	3 57	2 6	25 16	2 32	24 28	1 18	5 35	1 33	22 38	0 1	15 26	0 44	21 33	0 31	17 50	5 38	23 28	23 29	5 52	8 32	6 19			
T 26	12 29	1 54	5 2	4 32	2 5	25 26	2 35	24 31	1 18	5 36	1 32	22 37	0 1	15 26	0 44	21 32	0 31	17 50	5 38	23 28	23 29	5 55	8 33	6 19			
W27	12 49	4s18	4 39	5 8	2 3	25 34	2 37	24 34	1 18	5 37	1 32	22 37	0 1	15 26	0 44	21 32	0 31	17 50	5 38	23 28	23 29	5 58	8 33	6 18			
T 28	13 9	10 17	3 56	5 45	2 0	25 42	2 39	24 37	1 18	5 38	1 32	22 37	0 1	15 26	0 44	21 32	0 31	17 50	5 38	23 28	23 29	6 1	8 34	6 18			
F 29	13 30	15 37	2 56	6 23	1 56	25 50	2 41	24 39	1 18	5 40	1 32	22 36	0 1	15 26	0 44	21 32	0 31	17 50	5 38	23 28	23 29	6 3	8 34	6 17			
S 30	13 49	19 52	1 45	7 2	1 53	25 56	2 43	24 41	1 19	5 41	1 32	22 36	0 1	15 26	0 44	21 32	0 31	17 50	5 38	23 27	23 29	6 6	8 34	6 17			
S 31	14s 9	22s46	0n29	7s41	1n48	26s 2	2s45	24s43	1s19	5s41	1s31	22s36	0n 1	15s26	0s44	21s32	0n31	17n50	5s39	23n27	23n29	6n 9	8s35	6n17			

ASTRODIENST EPHEMERIS for the year 1666
geocentric

NOVEMBER 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	2 41 56	8♌50'57	6♋5	25♎41	23♏59	26♏15	19♏8	15♏22	20♏21	19♏41	28♏24	27♏23	28♏49	27♏2	20♏58	M 1
T 2	2 45 52	9°51'12	19°40	27°18	25°7	27°0	19♏5	15°26	20°21	19°42	28♏23	27°24	28°46	27°8	20°58	T 2
W 3	2 49 49	10°51'28	2♋49	28°54	26°15	27°46	19°3	15°31	20°21	19°43	28°22	27°25	28°43	27°15	20°58	W 3
T 4	2 53 45	11°51'46	15°35	0♌31	27°22	28°31	19°1	15°35	20°21	19°45	28°22	27°R26	28°40	27°22	20°58	T 4
F 5	2 57 42	12°52'05	28°3	2°8	28°30	29°16	18°59	15°39	20°22	19°46	28°21	27°24	28°37	27°28	20°59	F 5
S 6	3 1 39	13°52'25	10♏16	3°45	29°37	0♋1	18°57	15°44	20°22	19°47	28°20	27°21	28°33	27°35	20°59	S 6
S 7	3 5 35	14°52'47	22°18	5°22	0♋44	0°47	18°56	15°48	20°22	19°48	28°19	27°16	28°30	27°42	20°59	S 7
M 8	3 9 32	15°53'10	4♏15	6°59	1°51	1°32	18°55	15°53	20°23	19°49	28°19	27°9	28°27	27°48	21°0	M 8
T 9	3 13 28	16°53'34	16°7	8°36	2°58	2°18	18°54	15°57	20°23	19°50	28°18	27°1	28°24	27°55	21°0	T 9
W10	3 17 25	17°54'01	27°58	10°13	4°4	3°3	18°53	16°2	20°24	19°52	28°17	26°53	28°21	28°2	21°1	W10
T 11	3 21 21	18°54'28	9♏51	11°49	5°10	3°49	18°52	16°7	20°24	19°53	28°16	26°46	28°17	28°9	21°2	T 11
F 12	3 25 18	19°54'58	21°46	13°26	6°16	4°35	18°52	16°12	20°25	19°54	28°15	26°40	28°14	28°15	21°2	F 12
S 13	3 29 14	20°55'29	3♏45	15°2	7°22	5°20	18°51	16°17	20°26	19°56	28°14	26°36	28°11	28°22	21°3	S 13
S 14	3 33 11	21°56'01	15°50	16°38	8°28	6°6	18°D51	16°22	20°26	19°57	28°13	26°33	28°8	28°29	21°4	S 14
M15	3 37 7	22°56'35	28°3	18°14	9°34	6°52	18°51	16°27	20°27	19°59	28°12	26°D33	28°5	28°35	21°5	M15
T 16	3 41 4	23°57'11	10♋27	19°50	10°39	7°38	18°52	16°32	20°28	20°0	28°11	26°34	28°2	28°42	21°6	T 16
W17	3 45 1	24°57'49	23°3	21°25	11°44	8°24	18°52	16°37	20°29	20°1	28°10	26°35	27°58	28°49	21°7	W17
T 18	3 48 57	25°58'28	5♏55	23°0	12°49	9°10	18°53	16°43	20°30	20°3	28°9	26°37	27°55	28°56	21°8	T 18
F 19	3 52 54	26°59'09	19°6	24°35	13°53	9°56	18°54	16°48	20°31	20°4	28°8	26°38	27°52	29°2	21°9	F 19
S 20	3 56 50	27°59'51	2♏39	26°10	14°57	10°42	18°55	16°53	20°32	20°6	28°7	26°R38	27°49	29°9	21°10	S 20
S 21	4 0 47	29°0'35	16°34	27°45	16°1	11°28	18°57	16°59	20°33	20°8	28°6	26°37	27°46	29°16	21°12	S 21
M22	4 4 43	0♏1'21	0♎53	29°20	17°5	12°14	18°58	17°4	20°34	20°9	28°5	26°35	27°43	29°22	21°13	M22
T 23	4 8 40	1°2'08	15°33	0♏54	18°9	13°0	19°0	17°10	20°35	20°11	28°4	26°32	27°39	29°29	21°14	T 23
W24	4 12 36	2°2'57	0♌28	2°29	19°12	13°47	19°2	17°15	20°36	20°12	28°3	26°28	27°36	29°36	21°16	W24
T 25	4 16 33	3°3'47	15°31	4°3	20°15	14°33	19°4	17°21	20°38	20°14	28°2	26°25	27°33	29°42	21°17	T 25
F 26	4 20 30	4°4'39	0♏32	5°37	21°17	15°19	19°7	17°27	20°39	20°16	28°1	26°22	27°30	29°49	21°19	F 26
S 27	4 24 26	5°5'31	15°24	7°11	22°19	16°6	19°9	17°33	20°40	20°18	28°0	26°21	27°27	29°56	21°20	S 27
S 28	4 28 23	6°6'25	29°58	8°45	23°21	16°52	19°12	17°39	20°42	20°19	27°59	26°D20	27°23	0♏3	21°22	S 28
M29	4 32 19	7°7'20	14♋8	10°19	24°23	17°39	19°15	17°45	20°43	20°21	27°58	26°21	27°20	0°9	21°24	M29
T 30	4 36 16	8♏8'16	27♋52	11♏53	25♋24	18♋25	19♏18	17♋51	20♏45	20♋23	27♏57	26♏22	27♏17	0♏16	21♏26	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
M 1	14s28	24s 7	0s47	8s21	1n43	26s 7	2s47	24s44	1s19	5s42	1s31	22s35	0n 1	15s26	0s44	21s32	0n31	17n50	5s39	23n27	23n29	6n12	8s35	6n16	
T 2	14 48	23 58	1 57	9 0	1 38	26 12	2 48	24 46	1 19	5 43	1 31	22 35	0 0	15 26	0 44	21 32	0 31	17 50	5 39	23 27	23 29	6 15	8 36	6 16	
W 3	15 7	22 28	2 59	9 39	1 33	26 16	2 50	24 47	1 19	5 44	1 31	22 34	0 0	15 26	0 44	21 32	0 31	17 50	5 39	23 27	23 29	6 17	8 36	6 15	
T 4	15 25	19 52	3 51	10 19	1 27	26 19	2 51	24 47	1 19	5 44	1 30	22 34	0 0	15 26	0 44	21 31	0 31	17 50	5 39	23 27	23 29	6 20	8 36	6 15	
F 5	15 44	16 23	4 30	10 58	1 21	26 21	2 53	24 48	1 19	5 45	1 30	22 34	0 0	15 25	0 44	21 31	0 31	17 50	5 39	23 27	23 29	6 23	8 37	6 14	
S 6	16 2	12 17	4 55	11 37	1 15	26 23	2 54	24 48	1 19	5 45	1 30	22 33	0 0	15 25	0 44	21 31	0 30	17 50	5 39	23 27	23 28	6 26	8 37	6 14	
S 7	16 20	7 46	5 8	12 15	1 9	26 24	2 55	24 48	1 19	5 46	1 30	22 33	0 0	15 25	0 44	21 31	0 30	17 49	5 39	23 27	23 28	6 28	8 37	6 13	
M 8	16 37	3 0	5 7	12 53	1 2	26 24	2 56	24 48	1 19	5 46	1 29	22 32	0 0	15 25	0 44	21 31	0 30	17 49	5 39	23 27	23 28	6 31	8 38	6 13	
T 9	16 55	1n51	4 52	13 31	0 56	26 24	2 57	24 47	1 19	5 46	1 29	22 32	0s 0	15 25	0 44	21 31	0 30	17 49	5 39	23 27	23 28	6 34	8 38	6 13	
W10	17 12	6 39	4 25	14 8	0 49	26 23	2 58	24 46	1 19	5 46	1 29	22 31	0 0	15 25	0 44	21 31	0 30	17 49	5 39	23 27	23 28	6 37	8 38	6 12	
T 11	17 29	11 12	3 47	14 44	0 42	26 21	2 59	24 45	1 19	5 46	1 29	22 31	0 0	15 24	0 44	21 30	0 30	17 49	5 39	23 27	23 28	6 40	8 38	6 12	
F 12	17 45	15 22	2 58	15 20	0 36	26 19	2 59	24 43	1 19	5 46	1 28	22 30	0 0	15 24	0 44	21 30	0 30	17 49	5 39	23 26	23 28	6 42	8 38	6 11	
S 13	18 1	18 57	2 1	15 55	0 29	26 16	3 0	24 42	1 19	5 46	1 28	22 30	0 0	15 24	0 44	21 30	0 30	17 49	5 39	23 26	23 28	6 45	8 39	6 11	
S 14	18 17	21 46	0 58	16 29	0 22	26 12	3 0	24 40	1 19	5 46	1 28	22 29	0 0	15 24	0 44	21 30	0 30	17 49	5 39	23 26	23 28	6 48	8 39	6 10	
M15	18 33	23 36	0n 8	17 3	0 15	26 8	3 0	24 37	1 19	5 46	1 28	22 29	0 1	15 23	0 44	21 30	0 30	17 49	5 39	23 26	23 28	6 51	8 39	6 10	
T 16	18 48	24 19	1 15	17 35	0 8	26 3	3 0	24 35	1 19	5 45	1 27	22 28	0 1	15 23	0 44	21 29	0 30	17 49	5 39	23 26	23 28	6 53	8 39	6 10	
W17	19 3	23 49	2 20	18 7	0 2	25 57	3 0	24 32	1 19	5 45	1 27	22 27	0 1	15 23	0 44	21 29	0 30	17 49	5 39	23 26	23 28	6 56	8 39	6 9	
T 18	19 17	22 2	3 19	18 38	0s 5	25 51	3 0	24 29	1 19	5 44	1 27	22 27	0 1	15 22	0 44	21 29	0 30	17 49	5 39	23 26	23 28	6 59	8 39	6 9	
F 19	19 31	19 4	4 9	19 8	0 12	25 44	2 59	24 25	1 19	5 43	1 26	22 26	0 1	15 22	0 44	21 29	0 30	17 49	5 39	23 26	23 28	7 2	8 39	6 8	
S 20	19 45	15 0	4 47	19 38	0 18	25 36	2 59	24 22	1 19	5 43	1 26	22 26	0 1	15 22	0 44	21 29	0 30	17 49	5 39	23 26	23 28	7 5	8 39	6 8	
S 21	19 58	10 3	5 9	20 6	0 25	25 28	2 58	24 18	1 19	5 42	1 26	22 25	0 1	15 21	0 44	21 28	0 30	17 49	5 39	23 26	23 28	7 7	8 39	6 7	
M22	20 12	4 26	5 13	20 33	0 31	25 19	2 57	24 13	1 19	5 41	1 26	22 24	0 1	15 21	0 44	21 28	0 30	17 49	5 39	23 26	23 28	7 10	8 39	6 7	
T 23	20 24	1s34	4 57	21 0	0 38	25 10	2 56	24 9	1 19	5 40	1 25	22 24	0 1	15 20	0 43	21 28	0 30	17 49	5 39	23 26	23 28	7 13	8 39	6 7	
W24	20 37	7 35	4 21	21 25	0 44	24 59	2 55	24 4	1 18	5 39	1 25	22 23	0 1	15 20	0 43	21 28	0 30	17 49	5 39	23 26	23 28	7 16	8 39	6 6	
T 25	20 48	13 14	3 26	21 49	0 50	24 49	2 54	23 59	1 18	5 38	1 25	22 23	0 1	15 20	0 43	21 28	0 30	17 49	5 39	23 26	23 28	7 18	8 39	6 6	
F 26	21 0	18 4	2 17	22 12	0 56	24 38	2 52	23 54	1 18	5 37	1 25	22 22	0 1	15 19	0 43	21 27	0 30	17 49	5 39	23 26	23 28	7 21	8 39	6 5	
S 27	21 11	21 41	1 0	22 34	1 2	24 26	2 50	23 48	1 18	5 36	1 24	22 21	0 1	15 19	0 43	21 27	0 30	17 49	5 39	23 26	23 27	7 24	8 39	6 5	
S 28	21 22	23 49	0s20	22 55	1 8	24 14	2 49	23 42	1 18	5 34	1 24	22 20	0 1	15 18	0 43	21 27	0 30	17 49	5 39	23 26	23 27	7 27	8 39	6 4	
M29	21 32	24 20	1 37	23 15	1 13	24 1	2 47	23 36	1 18	5 33	1 24	22 20	0 2	15 18	0 43	21 27	0 30	17 49	5 39	23 26	23 27	7 30	8 39	6 4	
T 30	21s42	23s20	2s45	23s33	1s19	23s47	2s44	23s30	1s18	5s31	1s24	22s19	0s 2	15s17	0s43	21s26	0n30	17n49	5s39	23n26	23n27	7n32	8s38	6n 4	

ASTRODIENST EPHEMERIS for the year 1666

geocentric

DECEMBER 1666 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	4 40 12	9° 13'	11° 10'	13° 27'	26° 25'	19° 12'	19° 22'	17° 57'	20° 46'	20° 25'	27° 56'	26° 12'	27° 14'	0° 23'	21° 28'	W 1
T 2	4 44 9	10° 10' 10	24° 3	15° 2	27° 25'	19° 58'	19° 25'	18° 3	20° 48'	20° 26'	27° 54'	26° 25'	27° 11'	0° 29'	21° 30'	T 2
F 3	4 48 6	11° 11' 08	6° 35	16° 36	28° 25'	20° 45'	19° 29'	18° 9	20° 50'	20° 28'	27° 53'	26° 26'	27° 8	0° 36'	21° 31'	F 3
S 4	4 52 2	12° 12' 06	18° 50	18° 10	29° 25'	21° 32'	19° 33'	18° 15	20° 51'	20° 30'	27° 52'	26° 26'	27° 4	0° 43'	21° 34'	S 4
S 5	4 55 59	13° 13' 05	0° 52	19° 44	0° 24	22° 18'	19° 37'	18° 21	20° 53'	20° 32'	27° 51'	26° 25'	27° 1	0° 49'	21° 36'	S 5
M 6	4 59 55	14° 14' 05	12° 47	21° 18	1° 22	23° 5	19° 42'	18° 27	20° 55'	20° 34'	27° 50'	26° 24'	26° 58	0° 56'	21° 38'	M 6
T 7	5 3 52	15° 15' 06	24° 37	22° 52	2° 20	23° 52	19° 46'	18° 34	20° 57'	20° 36'	27° 49'	26° 22	26° 55	1° 3	21° 40'	T 7
W 8	5 7 48	16° 16' 07	6° 28	24° 26	3° 18	24° 39	19° 51'	18° 40	20° 59'	20° 38'	27° 47'	26° 20	26° 52	1° 10	21° 42'	W 8
T 9	5 11 45	17° 17' 08	18° 23	26° 1	4° 15	25° 25'	19° 56'	18° 46	21° 1	20° 40	27° 46'	26° 19	26° 49	1° 16	21° 45'	T 9
F 10	5 15 41	18° 18' 10	0° 24	27° 35	5° 11	26° 12	20° 1	18° 53	21° 3	20° 42	27° 45'	26° 18	26° 45	1° 23	21° 47'	F 10
S 11	5 19 38	19° 19' 13	12° 32	29° 9	6° 7	26° 59	20° 6	18° 59	21° 5	20° 44	27° 44'	26° 17	26° 42	1° 30	21° 49'	S 11
S 12	5 23 35	20° 20' 17	24° 51	0° 44	7° 3	27° 46	20° 12	19° 6	21° 7	20° 46	27° 43'	26° 17	26° 39	1° 36	21° 52'	S 12
M13	5 27 31	21° 21' 21	7° 20	2° 18	7° 57	28° 33	20° 18	19° 12	21° 9	20° 48	27° 41'	26° 17	26° 36	1° 43	21° 54'	M13
T14	5 31 28	22° 22' 26	20° 2	3° 52	8° 51	29° 20	20° 23	19° 19	21° 11	20° 50	27° 40'	26° 17	26° 33	1° 50	21° 57'	T14
W15	5 35 24	23° 23' 32	2° 56	5° 27	9° 45	0° 7	20° 29	19° 25	21° 13	20° 52	27° 39'	26° 18	26° 29	1° 56	21° 59'	W15
T16	5 39 21	24° 24' 38	16° 4	7° 1	10° 37	0° 54	20° 36	19° 32	21° 15	20° 54	27° 38'	26° 18	26° 26	2° 3	22° 2	T16
F17	5 43 17	25° 25' 45	29° 26	8° 35	11° 29	1° 41	20° 42	19° 39	21° 18	20° 56	27° 37'	26° 18	26° 23	2° 10	22° 5	F17
S18	5 47 14	26° 26' 53	13° 3	10° 8	12° 21	2° 28	20° 48	19° 45	21° 20	20° 58	27° 35'	26° 18	26° 20	2° 17	22° 8	S18
S19	5 51 10	27° 28' 01	26° 55	11° 42	13° 11	3° 15	20° 55	19° 52	21° 22	21° 0	27° 34'	26° 18	26° 17	2° 23	22° 10	S19
M20	5 55 7	28° 29' 10	11° 1	13° 15	14° 1	4° 2	21° 2	19° 59	21° 25	21° 2	27° 33'	26° 18	26° 14	2° 30	22° 13	M20
T21	5 59 4	29° 30' 19	25° 20	14° 47	14° 50	4° 49	21° 9	20° 6	21° 27	21° 5	27° 32'	26° 18	26° 10	2° 37	22° 16	T21
W22	6 3 0	0° 31' 29	9° 49	16° 18	15° 38	5° 36	21° 16	20° 13	21° 29	21° 7	27° 31'	26° 19	26° 7	2° 43	22° 19	W22
T23	6 6 57	1° 32' 40	24° 24	17° 49	16° 25	6° 23	21° 24	20° 19	21° 32	21° 9	27° 29'	26° 19	26° 4	2° 50	22° 22	T23
F24	6 10 53	2° 33' 51	9° 0	19° 19	17° 11	7° 10	21° 31	20° 26	21° 34	21° 11	27° 28'	26° 20	26° 1	2° 57	22° 25	F24
S25	6 14 50	3° 35' 03	23° 31	20° 47	17° 56	7° 57	21° 39	20° 33	21° 37	21° 13	27° 27'	26° 20	25° 58	3° 3	22° 28	S25
S26	6 18 46	4° 36' 15	7° 51	22° 14	18° 40	8° 45	21° 47	20° 40	21° 40	21° 16	27° 26'	26° 20	25° 55	3° 10	22° 31	S26
M27	6 22 43	5° 37' 27	21° 54	23° 38	19° 23	9° 32	21° 54	20° 47	21° 42	21° 18	27° 25'	26° 19	25° 51	3° 17	22° 34	M27
T28	6 26 40	6° 38' 38	5° 36	25° 0	20° 5	10° 19	22° 3	20° 54	21° 45	21° 20	27° 23'	26° 18	25° 48	3° 24	22° 38	T28
W29	6 30 36	7° 39' 50	18° 57	26° 20	20° 46	11° 6	22° 11	21° 1	21° 48	21° 22	27° 22'	26° 16	25° 45	3° 30	22° 41	W29
T30	6 34 33	8° 41' 01	1° 54	27° 36	21° 25	11° 53	22° 19	21° 8	21° 50	21° 24	27° 21'	26° 15	25° 42	3° 37	22° 44	T30
F31	6 38 29	9° 42' 12	14° 31	28° 38	22° 4	12° 41	22° 28	21° 15	21° 53	21° 27	27° 20'	26° 13	25° 39	3° 44	22° 48	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	21s52	21s 2	3s43	23s51	1s24	23s34	2s42	23s23	1s18	5s30	1s23	22s18	0s 2	15s17	0s43	21s26
T 2	22 1	17 44	4 27	24 7	1 29	23 19	2 40	23 16	1 17	5 28	1 23	22 18	0 2	15 16	0 43	21 26
F 3	22 10	13 43	4 58	24 22	1 34	23 4	2 37	23 9	1 17	5 26	1 23	22 17	0 2	15 16	0 43	21 26
S 4	22 18	9 14	5 14	24 36	1 39	22 49	2 34	23 1	1 17	5 24	1 23	22 16	0 2	15 15	0 43	21 25
S 5	22 26	4 29	5 15	24 48	1 43	22 33	2 31	22 54	1 17	5 23	1 22	22 15	0 2	15 14	0 43	21 25
M 6	22 33	0n24	5 4	24 59	1 47	22 17	2 27	22 46	1 17	5 21	1 22	22 15	0 2	15 14	0 43	21 25
T 7	22 40	5 14	4 39	25 8	1 51	22 1	2 24	22 38	1 16	5 19	1 22	22 14	0 2	15 13	0 43	21 25
W 8	22 46	9 53	4 2	25 17	1 55	21 44	2 20	22 29	1 16	5 16	1 21	22 13	0 2	15 13	0 43	21 24
T 9	22 52	14 12	3 15	25 24	1 58	21 26	2 16	22 20	1 16	5 14	1 21	22 12	0 2	15 12	0 43	21 24
F 10	22 58	18 1	2 19	25 29	2 1	21 8	2 12	22 11	1 16	5 12	1 21	22 11	0 2	15 11	0 43	21 24
S 11	23 3	21 6	1 16	25 33	2 4	20 50	2 8	22 2	1 16	5 10	1 21	22 10	0 2	15 11	0 43	21 23
S 12	23 8	23 15	0 8	25 35	2 7	20 32	2 3	21 53	1 15	5 7	1 20	22 10	0 2	15 10	0 43	21 23
M13	23 12	24 18	1n 1	25 36	2 9	20 13	1 59	21 43	1 15	5 5	1 20	22 9	0 3	15 9	0 43	21 23
T14	23 16	24 6	2 8	25 36	2 10	19 54	1 54	21 33	1 15	5 2	1 20	22 8	0 3	15 8	0 43	21 23
W15	23 19	22 37	3 10	25 34	2 12	19 35	1 48	21 23	1 15	5 0	1 20	22 7	0 3	15 8	0 43	21 22
T16	23 22	19 54	4 3	25 30	2 13	19 15	1 43	21 12	1 14	4 57	1 19	22 6	0 3	15 7	0 43	21 22
F17	23 24	16 6	4 43	25 25	2 13	18 55	1 37	21 1	1 14	4 54	1 19	22 5	0 3	15 6	0 43	21 22
S18	23 26	11 25	5 9	25 18	2 13	18 35	1 31	20 51	1 14	4 52	1 19	22 4	0 3	15 5	0 43	21 21
S19	23 27	6 5	5 17	25 10	2 12	18 15	1 25	20 39	1 13	4 49	1 19	22 3	0 3	15 5	0 43	21 21
M20	23 28	0 21	5 7	25 0	2 11	17 55	1 19	20 28	1 13	4 46	1 19	22 3	0 3	15 4	0 43	21 21
T21	23 29	5s30	4 38	24 49	2 10	17 34	1 12	20 16	1 13	4 43	1 18	22 2	0 3	15 3	0 43	21 20
W22	23 29	11 8	3 51	24 36	2 8	17 13	1 5	20 5	1 12	4 40	1 18	22 1	0 3	15 2	0 43	21 20
T23	23 28	16 11	2 48	24 21	2 5	16 52	0 58	19 53	1 12	4 37	1 18	22 0	0 3	15 1	0 43	21 20
F24	23 27	20 17	1 35	24 5	2 1	16 31	0 51	19 40	1 12	4 33	1 18	21 59	0 3	15 1	0 43	21 20
S25	23 26	23 4	0 16	23 48	1 57	16 10	0 43	19 28	1 12	4 30	1 17	21 58	0 3	15 0	0 43	21 19
S26	23 24	24 18	1s 3	23 29	1 52	15 49	0 35	19 15	1 11	4 27	1 17	21 57	0 3	14 59	0 43	21 19
M27	23 19	22 57	2 17	23 9	1 46	15 28	0 27	19 2	1 11	4 24	1 17	21 56	0 4	14 58	0 42	21 19
T28	23 19	22 9	3 21	22 48	1 40	15 6	0 18	18 49	1 10	4 20	1 17	21 55	0 4	14 57	0 42	21 18
W29	23 16	19 9	4 12	22 26	1 32	14 45	0 10	18 36	1 10	4 17	1 16	21 54	0 4	14 56	0 42	21 18
T30	23 12	15 18	4 48	22 3	1 23	14 24	0 1	18 22	1 10	4 13	1 16	21 53	0 4	14 55	0 42	21 18
F31	23s 8	10s52	5s10	21s39	1s14	14s 3	0n 9	18s 9	1s 9	4s10	1s16	21s52	0s 4	14s54	0s42	21s17

Julian Day Number = 2329888.5, Delta T = 31.74 sec

Ecliptic obliquity = 23°28'57", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°05'28", Lahiri = 19°12'28"Greg. Calendar