



Astrodienst Ephemeris Tables for the year 1667

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 1667
geocentric

JANUARY 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	6 42 26	10 ³ 43'23	26 ¹ 50	29 ³ 55	22 ² 41	13 ² 28	22 ¹ 37	21 ³ 22	21 ² 56	21 ¹ 29	27 ⁰ R19	26 ⁰ R12	25 ¹ 35	3 ⁸ 50	22 ² 51	S 1
S 2	6 46 22	11 ⁰ 44'33	8 ⁰ 55	0 ⁰ 57	23 ⁰ 16	14 ⁰ 15	22 ⁰ 45	21 ⁰ 29	21 ⁰ 59	21 ⁰ 31	27 ¹ II18	26 ⁰ D11	25 ⁰ 32	3 ⁰ 57	22 ⁰ 54	S 2
M 3	6 50 19	12 ⁰ 45'43	20 ⁰ 50	1 ⁰ 53	23 ⁰ 50	15 ⁰ 2	22 ⁰ 54	21 ⁰ 36	22 ⁰ 1	21 ⁰ 33	27 ⁰ 16	26 ⁰ II12	25 ⁰ 29	4 ⁰ 4	22 ⁰ 58	M 3
T 4	6 54 15	13 ⁰ 46'52	2 ⁰ 41	2 ⁰ 42	24 ⁰ 23	15 ⁰ 49	23 ⁰ 3	21 ⁰ 43	22 ⁰ 4	21 ⁰ 36	27 ⁰ 15	26 ⁰ 12	25 ⁰ 26	4 ⁰ 10	23 ⁰ 1	T 4
W 5	6 58 12	14 ⁰ 48'01	14 ⁰ 32	3 ⁰ 24	24 ⁰ 54	16 ⁰ 37	23 ⁰ 13	21 ⁰ 50	22 ⁰ 7	21 ⁰ 38	27 ⁰ 14	26 ⁰ 14	25 ⁰ 23	4 ⁰ 17	23 ⁰ 5	W 5
T 6	7 2 8	15 ⁰ 49'10	26 ⁰ 28	3 ⁰ 56	25 ⁰ 24	17 ⁰ 24	23 ⁰ 22	21 ⁰ 57	22 ⁰ 10	21 ⁰ 40	27 ⁰ 13	26 ⁰ 16	25 ⁰ 20	4 ⁰ 24	23 ⁰ 8	T 6
F 7	7 6 5	16 ⁰ 50'18	8 ⁰ II33	4 ⁰ 19	25 ⁰ 52	18 ⁰ 11	23 ⁰ 32	22 ⁰ 4	22 ⁰ 13	21 ⁰ 42	27 ⁰ 12	26 ⁰ 17	25 ⁰ 16	4 ⁰ 30	23 ⁰ 12	F 7
S 8	7 10 2	17 ⁰ 51'25	20 ⁰ 50	4 ⁰ 32	26 ⁰ 18	18 ⁰ 58	23 ⁰ 41	22 ⁰ 11	22 ⁰ 16	21 ⁰ 45	27 ⁰ 11	26 ⁰ R18	25 ⁰ 13	4 ⁰ 37	23 ⁰ 15	S 8
S 9	7 13 58	18 ⁰ 52'32	3 ⁰ 21	4 ⁰ R33	26 ⁰ 42	19 ⁰ 46	23 ⁰ 51	22 ⁰ 18	22 ⁰ 19	21 ⁰ 47	27 ⁰ 10	26 ⁰ 18	25 ⁰ 10	4 ⁰ 44	23 ⁰ 19	S 9
M10	7 17 55	19 ⁰ 53'38	16 ⁰ 9	4 ⁰ 23	27 ⁰ 5	20 ⁰ 33	24 ⁰ 1	22 ⁰ 26	22 ⁰ 22	21 ⁰ 49	27 ⁰ 9	26 ⁰ 17	25 ⁰ 7	4 ⁰ 51	23 ⁰ 23	M10
T 11	7 21 51	20 ⁰ 54'44	29 ⁰ 13	4 ⁰ 1	27 ⁰ 25	21 ⁰ 20	24 ⁰ 11	22 ⁰ 33	22 ⁰ 25	21 ⁰ 52	27 ⁰ 7	26 ⁰ 14	25 ⁰ 4	4 ⁰ 57	23 ⁰ 26	T 11
W12	7 25 48	21 ⁰ 55'49	12 ⁰ II33	3 ⁰ 27	27 ⁰ 44	22 ⁰ 7	24 ⁰ 21	22 ⁰ 40	22 ⁰ 28	21 ⁰ 54	27 ⁰ 6	26 ⁰ 11	25 ⁰ 1	5 ⁰ 4	23 ⁰ 30	W12
T 13	7 29 44	22 ⁰ 56'54	26 ⁰ 7	2 ⁰ 43	28 ⁰ 0	22 ⁰ 54	24 ⁰ 31	22 ⁰ 47	22 ⁰ 31	21 ⁰ 56	27 ⁰ 5	26 ⁰ 6	24 ⁰ 57	5 ⁰ 11	23 ⁰ 34	T 13
F 14	7 33 41	23 ⁰ 57'59	9 ⁰ II37	1 ⁰ 48	28 ⁰ 15	23 ⁰ 42	24 ⁰ 42	22 ⁰ 54	22 ⁰ 35	21 ⁰ 58	27 ⁰ 4	26 ⁰ 2	24 ⁰ 54	5 ⁰ 17	23 ⁰ 38	F 14
S 15	7 37 38	24 ⁰ 59'03	23 ⁰ 47	0 ⁰ 45	28 ⁰ 27	24 ⁰ 29	24 ⁰ 52	23 ⁰ 1	22 ⁰ 38	22 ⁰ 1	27 ⁰ 3	25 ⁰ 58	24 ⁰ 51	5 ⁰ 24	23 ⁰ 41	S 15
S 16	7 41 34	26 ⁰ 0'06	7 ⁰ II49	29 ⁰ 35	28 ⁰ 37	25 ⁰ 16	25 ⁰ 3	23 ⁰ 8	22 ⁰ 41	22 ⁰ 3	27 ⁰ 2	25 ⁰ 56	24 ⁰ 48	5 ⁰ 31	23 ⁰ 45	S 16
M17	7 45 31	27 ⁰ 1'09	21 ⁰ 55	28 ⁰ 20	28 ⁰ 45	26 ⁰ 3	25 ⁰ 13	23 ⁰ 15	22 ⁰ 44	22 ⁰ 5	27 ⁰ 1	25 ⁰ D54	24 ⁰ 45	5 ⁰ 37	23 ⁰ 49	M17
T 18	7 49 27	28 ⁰ 2'12	6 ⁰ II 4	27 ⁰ 3	28 ⁰ 50	26 ⁰ 50	25 ⁰ 24	23 ⁰ 22	22 ⁰ 47	22 ⁰ 7	27 ⁰ 0	25 ⁰ 54	24 ⁰ 41	5 ⁰ 44	23 ⁰ 53	T 18
W19	7 53 24	29 ⁰ 3'15	20 ⁰ 14	25 ⁰ 47	28 ⁰ 53	27 ⁰ 38	25 ⁰ 35	23 ⁰ 29	22 ⁰ 51	22 ⁰ 10	26 ⁰ 59	25 ⁰ 56	24 ⁰ 38	5 ⁰ 51	23 ⁰ 57	W19
T 20	7 57 20	0 ⁰ 4'17	4 ⁰ II24	24 ⁰ 32	28 ⁰ R54	28 ⁰ 25	25 ⁰ 46	23 ⁰ 37	22 ⁰ 54	22 ⁰ 12	26 ⁰ 58	25 ⁰ 57	24 ⁰ 35	5 ⁰ 57	24 ⁰ 1	T 20
F 21	8 1 17	1 ⁰ 5'18	18 ⁰ 30	23 ⁰ 22	28 ⁰ 52	29 ⁰ 12	25 ⁰ 57	23 ⁰ 44	22 ⁰ 57	22 ⁰ 14	26 ⁰ 57	25 ⁰ 58	24 ⁰ 32	6 ⁰ 4	24 ⁰ 5	F 21
S 22	8 5 13	2 ⁰ 6'19	2 ⁰ 32	22 ⁰ 18	28 ⁰ 48	29 ⁰ 59	26 ⁰ 9	23 ⁰ 51	23 ⁰ 0	22 ⁰ 17	26 ⁰ 56	25 ⁰ R58	24 ⁰ 29	6 ⁰ 11	24 ⁰ 9	S 22
S 23	8 9 10	3 ⁰ 7'19	16 ⁰ 26	21 ⁰ 21	28 ⁰ 41	0 ⁰ II46	26 ⁰ 20	23 ⁰ 58	23 ⁰ 4	22 ⁰ 19	26 ⁰ 55	25 ⁰ 57	24 ⁰ 26	6 ⁰ 18	24 ⁰ 12	S 23
M24	8 13 7	4 ⁰ 8'18	0 ⁰ 8	20 ⁰ 32	28 ⁰ 31	1 ⁰ 33	26 ⁰ 31	24 ⁰ 5	23 ⁰ 7	22 ⁰ 21	26 ⁰ 54	25 ⁰ 53	24 ⁰ 22	6 ⁰ 24	24 ⁰ 16	M24
T 25	8 17 3	5 ⁰ 9'16	13 ⁰ 36	19 ⁰ 52	28 ⁰ 19	2 ⁰ 20	26 ⁰ 43	24 ⁰ 12	23 ⁰ 10	22 ⁰ 23	26 ⁰ 53	25 ⁰ 47	24 ⁰ 19	6 ⁰ 31	24 ⁰ 21	T 25
W26	8 21 0	6 ⁰ 10'13	26 ⁰ 47	19 ⁰ 20	28 ⁰ 5	3 ⁰ 8	26 ⁰ 55	24 ⁰ 19	23 ⁰ 14	22 ⁰ 25	26 ⁰ 52	25 ⁰ 40	24 ⁰ 16	6 ⁰ 38	24 ⁰ 25	W26
T 27	8 24 56	7 ⁰ 11'09	9 ⁰ II41	18 ⁰ 57	27 ⁰ 48	3 ⁰ 55	27 ⁰ 6	24 ⁰ 26	23 ⁰ 17	22 ⁰ 28	26 ⁰ 52	25 ⁰ 33	24 ⁰ 13	6 ⁰ 44	24 ⁰ 29	T 27
F 28	8 28 53	8 ⁰ 12'04	22 ⁰ 17	18 ⁰ 43	27 ⁰ 29	4 ⁰ 42	27 ⁰ 18	24 ⁰ 33	23 ⁰ 20	22 ⁰ 30	26 ⁰ 51	25 ⁰ 25	24 ⁰ 10	6 ⁰ 51	24 ⁰ 33	F 28
S 29	8 32 49	9 ⁰ 12'57	4 ⁰ II36	18 ⁰ D36	27 ⁰ 7	5 ⁰ 29	27 ⁰ 30	24 ⁰ 40	23 ⁰ 24	22 ⁰ 32	26 ⁰ 50	25 ⁰ 19	24 ⁰ 7	6 ⁰ 58	24 ⁰ 37	S 29
S 30	8 36 46	10 ⁰ 13'49	16 ⁰ 42	18 ⁰ 38	26 ⁰ 43	6 ⁰ 16	27 ⁰ 42	24 ⁰ 47	23 ⁰ 27	22 ⁰ 34	26 ⁰ 49	25 ⁰ 14	24 ⁰ 3	7 ⁰ 4	24 ⁰ 41	S 30
M31	8 40 42	11 ⁰ 14'40	28 ⁰ Y37	18 ⁰ 37	26 ⁰ 17	7 ⁰ II 3	27 ⁰ II54	24 ⁰ 354	23 ⁰ 331	22 ⁰ 337	26 ⁰ II48	25 ⁰ II11	24 ⁰ II 0	7 ⁰ II11	24 ⁰ II45	M31

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	23s 3	6s 6	5s16	21s14	1s 4	13s42	0n18	17s55	1s 9	4s 6	1s16	21s51	0s 4	14s53	0s42	21s17	0n29	17n50	5s38	23n26	23n25	9n 1	8s22	5n53
S 2	22 58	1 11	5 9	20 50	0 52	13 21	0 28	17 41	1 9	4 2	1 16	21 50	0 4	14 53	0 42	21 17	0 29	17 50	5 38	23 26	23 24	9 3	8 21	5 52
M 3	22 52	3n42	4 48	20 25	0 39	13 0	0 38	17 27	1 8	3 58	1 15	21 49	0 4	14 52	0 42	21 16	0 29	17 50	5 38	23 26	23 24	9 6	8 20	5 52
T 4	22 46	8 26	4 15	20 0	0 26	12 39	0 49	17 12	1 8	3 55	1 15	21 48	0 4	14 51	0 42	21 16	0 29	17 50	5 38	23 26	23 24	9 9	8 19	5 52
W 5	22 40	12 52	3 31	19 36	0 11	12 19	0 59	16 58	1 7	3 51	1 15	21 47	0 4	14 50	0 42	21 16	0 29	17 50	5 37	23 26	23 24	9 12	8 19	5 51
T 6	22 33	16 51	2 37	19 14	0n 5	11 58	1 10	16 43	1 7	3 47	1 15	21 46	0 4	14 49	0 42	21 15	0 29	17 50	5 37	23 26	23 24	9 14	8 18	5 51
F 7	22 25	20 11	1 36	18 52	0 22	11 38	1 22	16 28	1 7	3 43	1 15	21 44	0 4	14 48	0 42	21 15	0 29	17 50	5 37	23 26	23 24	9 17	8 17	5 51
S 8	22 17	22 40	0 30	18 32	0 39	11 19	1 33	16 13	1 6	3 39	1 14	21 43	0 4	14 47	0 42	21 14	0 29	17 50	5 37	23 26	23 24	9 20	8 16	5 51
S 9	22 9	24 5	0n39	18 14	0 57	10 59	1 45	15 57	1 6	3 35	1 14	21 42	0 4	14 46	0 42	21 14	0 29	17 50	5 37	23 26	23 24	9 23	8 15	5 50
M10	22 0	24 17	1 47	17 58	1 16	10 40	1 57	15 42	1 5	3 31	1 14	21 41	0 5	14 45	0 42	21 14	0 29	17 50	5 37	23 26	23 24	9 25	8 14	5 50
T 11	21 51	23 8	2 51	17 45	1 35	10 22	2 10	15 26	1 5	3 27	1 14	21 40	0 5	14 44	0 42	21 13	0 29	17 50	5 37	23 26	23 23	9 28	8 13	5 50
W12	21 42	20 42	3 47	17 35	1 53	10 3	2 22	15 11	1 4	3 22	1 14	21 39	0 5	14 43	0 42	21 13	0 29	17 50	5 37	23 26	23 23	9 31	8 12	5 50
T 13	21 32	17 5	4 31	17 27	2 11	9 46	2 35	14 55	1 4	3 18	1 13	21 38	0 5	14 42	0 42	21 13	0 29	17 50	5 37	23 26	23 23	9 34	8 11	5 49
F 14	21 21	12 31	5 1	17 23	2 28	9 28	2 48	14 39	1 4	3 14	1 13	21 37	0 5	14 41	0 42	21 12	0 29	17 51	5 37	23 25	23 23	9 36	8 10	5 49
S 15	21 10	7 15	5 13	17 21	2 44	9 11	3 2	14 23	1 3	3 10	1 13	21 36	0 5	14 40	0 42	21 12	0 29	17 51	5 36	23 25	23 23	9 39	8 9	5 49
S 16	20 59	1 35	5 6	17 22	2 58	8 55	3 15	14 6	1 3	3 5	1 13	21 35	0 5	14 39	0 42	21 12	0 29	17 51	5 36	23 25	23 23	9 42	8 8	5 49
M17	20 48	4s12	4 41	17 26	3 10	8 40	3 29	13 50	1 2	3 1	1 13	21 33	0 5	14 38	0 42	21 11	0 29	17 51	5 36	23 25	23 23	9 45	8 7	5 49
T 18	20 36	9 48	3 59	17 31	3 20	8 25	3 43	13 33	1 2	2 56	1 12	21 32	0 5	14 36	0 42	21 11	0 29	17 51	5 36	23 25	23 23	9 47	8 6	5 48
W19	20 23	14 54	3 3	17 38	3 27	8 10	3 57	13 17	1 1	2 52	1 12	21 31	0 5	14 35	0 42	21 11	0 29	17 51	5 36	23 25	23 22	9 50	8 5	5 48
T 20	20 10	19 10	1 55	17 47	3 32	7 57	4 12	10 3	0 1	2 47	1 12	21 30	0 5	14 34	0 42	21 10	0 29	17 51	5 36	23 25	23 22	9 53	8 4	5 48
F 21	19 57	22 19	0 41	17 56	3 34	7 44	4 26	12 43	1 0	2 43	1 12	21 29	0 5	14 33	0 42	21 10	0 29	17 51	5 36	23 25	23 22	9 56	8 3	5 48
S 22	19 44	24 3	0s36	18 7	3 34	7 32	4 40	12 26	1 0	2 38	1 12	21 28	0 5	14 32	0 42	21 10	0 29	17 51	5 36	23 25	23 22	9 58	8 2	5 48
S 23	19 30	24 16	1 49	18 18	3 31	7 21	4 55	12 9	0 59	2 33	1 12	21 27	0 5	14 31	0 42	21 9	0 29	17 51	5 35	23 25	23 22	10 1	8 0	5 48
M24	19 15	23 0	2 55	18 30	3 27	7 10	5 9	11 51	0 59	2 29	1 11	21 25	0 6	14 30	0 42	21 9	0 29	17 52	5 35	23 25	23 22	10 4	7 59	5 47
T 25	19 1	20 26	3 50	18 41	3 21	7 1	5 23	11 34	0 58	2 24	1 11	21 24	0 6	14 29	0 42	21 8	0 29	17 52	5 35	23 25	23 22	10 7	7 58	5 47
W26	18 46	16 51	4 31	18 53	3 14	6 52	5 38	11 16	0 58	2 19	1 11	21 23	0 6	14 28	0 42	21 8	0 29	17 52	5 35	23 25	23 22	10 9	7 57	5 47
T 27	18 31	12 32	4 57	19 5	3 6	6 45	5 52	10 59	0 57	2 14	1 11	21 22	0 6	14 27	0 42	21 8	0 29	17 52	5 35	23 24	23 21	10 12	7 56	5 47
F 28	18 15	7 47	5 8	19 16	2 56	6 38	6 6	10 41	0 57	2 9	1 11	21 21	0 6	14 25	0 42	21 7	0 29	17 52	5 35	23 24	23 21	10 15	7 55	5 47
S 29	17 59	2 50	5 5	19 27	2 46	6 33	6 19	10 23	0 56	2 5	1 11	21 20	0 6	14 24	0 42	21 7	0 29	17 52	5 35	23 24	23 21	10 17	7 53	5 47
S 30	17 43	2n 9	4 48	19 37	2 35	6 28	6 32	10 6	0 56	2 0	1 11	21 18	0 6	14 23	0 42	21 7	0 29	17 52	5 35	23 24	23 21	10 20	7 52	5 46
M31	17s26	6n59	4s18	19s47	2n24	6s25	6n45	9s48	0s55	1s55	1s10	21s17	0s 6	14s22	0s42	21s 6	0n29	17n52	5s34	23n24	23n21	10n23	7s51	5n46

ASTRODIENST EPHEMERIS for the year 1667

geocentric

FEBRUARY 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 44 39	12°15'29"	10°8'28"	19°32'2"	25°R49	7°H50	28°H6	25°31	23°334	22°339	26°R47	25°D9	23°II57	7°818	24°49	T 1
W 2	8 48 36	13°16'16"	22°18	19°24	25°19	8°37	28°19	25°8	23°37	22°41	26°II47	25°II10	23°54	7°24	24°53	W 2
T 3	8 52 32	14°17'03"	4°II14	19°51	24°48	9°24	28°31	25°14	23°41	22°43	26°46	25°11	23°51	7°31	24°57	T 3
F 4	8 56 29	15°17'47"	16°19	20°24	24°14	10°11	28°43	25°21	23°44	22°45	26°45	25°12	23°47	7°38	25°1	F 4
S 5	9 0 25	16°18'30"	28°40	21°1	23°40	10°58	28°56	25°28	23°48	22°47	26°44	25°R13	23°44	7°44	25°6	S 5
S 6	9 4 22	17°19'12"	11°19	21°43	23°4	11°44	29°8	25°35	23°51	22°49	26°44	25°11	23°41	7°51	25°10	S 6
M 7	9 8 18	18°19'52"	24°20	22°29	22°28	12°31	29°21	25°42	23°55	22°52	26°43	25°8	23°38	7°58	25°14	M 7
T 8	9 12 15	19°20'30"	7°II43	23°19	21°51	13°18	29°34	25°48	23°58	22°54	26°42	25°2	23°35	8°5	25°18	T 8
W 9	9 16 11	20°21'07"	21°27	24°12	21°13	14°5	29°47	25°55	24°1	22°56	26°42	24°53	23°32	8°11	25°22	W 9
T 10	9 20 8	21°21'43"	5°II29	25°8	20°36	14°52	29°59	26°2	24°5	22°58	26°41	24°44	23°28	8°18	25°26	T 10
F 11	9 24 5	22°22'17"	19°44	26°7	19°58	15°38	0°Y12	26°8	24°8	23°0	26°40	24°34	23°25	8°25	25°31	F 11
S 12	9 28 1	23°22'49"	4°II7	27°9	19°21	16°25	0°25	26°15	24°12	23°2	26°40	24°25	23°22	8°31	25°35	S 12
S 13	9 31 58	24°23'21"	18°31	28°13	18°45	17°12	0°38	26°22	24°15	23°4	26°39	24°18	23°19	8°38	25°39	S 13
M14	9 35 54	25°23'51"	2°II51	29°20	18°10	17°58	0°51	26°28	24°19	23°6	26°39	24°14	23°16	8°45	25°43	M14
T 15	9 39 51	26°24'19"	17°5	0°II28	17°36	18°45	1°5	26°35	24°22	23°8	26°38	24°12	23°13	8°51	25°47	T 15
W16	9 43 47	27°24'47"	1°X10	1°39	17°3	19°32	1°18	26°41	24°26	23°10	26°37	24°D11	23°9	8°58	25°51	W16
T 17	9 47 44	28°25'13"	15°6	2°52	16°32	20°18	1°31	26°47	24°29	23°12	26°37	24°12	23°6	9°5	25°56	T 17
F 18	9 51 40	29°25'38"	28°52	4°6	16°3	21°5	1°45	26°54	24°33	23°14	26°36	24°R12	23°3	9°11	26°0	F 18
S 19	9 55 37	0°H26'02"	12°329	5°22	15°35	21°51	1°58	27°0	24°36	23°16	26°36	24°11	23°0	9°18	26°4	S 19
S 20	9 59 34	1°26'24"	25°56	6°40	15°10	22°38	2°11	27°6	24°40	23°18	26°36	24°7	22°57	9°25	26°8	S 20
M21	10 3 30	2°26'44"	9°II13	7°59	14°47	23°24	2°25	27°13	24°43	23°19	26°35	24°0	22°53	9°31	26°12	M21
T 22	10 7 27	3°27'03"	22°19	9°19	14°26	24°11	2°39	27°19	24°46	23°21	26°35	23°50	22°50	9°38	26°17	T 22
W23	10 11 23	4°27'20"	5°H12	10°41	14°7	24°57	2°52	27°25	24°50	23°23	26°34	23°38	22°47	9°45	26°21	W23
T 24	10 15 20	5°27'35"	17°53	12°5	13°51	25°43	3°6	27°31	24°53	23°25	26°34	23°25	22°44	9°51	26°25	T 24
F 25	10 19 16	6°27'49"	0°Y20	13°29	13°37	26°30	3°20	27°37	24°57	23°27	26°34	23°12	22°41	9°58	26°29	F 25
S 26	10 23 13	7°28'00"	12°34	14°55	13°26	27°16	3°33	27°43	25°0	23°29	26°33	23°0	22°38	10°5	26°33	S 26
S 27	10 27 9	8°28'10"	24°37	16°22	13°17	28°2	3°47	27°49	25°4	23°30	26°33	22°50	22°34	10°11	26°37	S 27
M28	10 31 6	9°H28'17"	6°B31	17°II51	13°II10	28°H48	4°Y1	27°355	25°II7	23°332	26°II33	22°II43	22°II31	10°B18	26°II41	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	17s 9	11n32	3s38	19s56	2n13	6s23	6n58	9s30	0s55	1s50	1s10	21s16	0s6	14s21	0s42	21s6	0n29	17n52	5s34	23n24	23n21	10n26	7s50	5n46	
W 2	16 52	15 40	2 48	20 4	2 2	6 21	7 9	9 11	0 54	1 45	1 10	21 15	0 6	14 20	0 42	21 6	0 29	17 53	5 34	23 24	23 21	10 28	7 48	5 46	
T 3	16 34	19 13	1 51	20 12	1 50	6 21	7 21	8 53	0 53	1 40	1 10	21 14	0 6	14 19	0 42	21 5	0 29	17 53	5 34	23 24	23 20	10 31	7 47	5 46	
F 4	16 17	21 59	0 48	20 18	1 39	6 22	7 31	8 35	0 53	1 35	1 10	21 13	0 6	14 18	0 42	21 5	0 29	17 53	5 34	23 24	23 20	10 34	7 46	5 46	
S 5	15 59	23 47	0n19	20 24	1 27	6 24	7 41	8 17	0 52	1 29	1 10	21 11	0 6	14 16	0 42	21 5	0 29	17 53	5 34	23 24	23 20	10 37	7 45	5 46	
S 6	15 40	24 25	1 26	20 29	1 16	6 26	7 50	7 58	0 52	1 24	1 10	21 10	0 7	14 15	0 42	21 4	0 29	17 53	5 34	23 24	23 20	10 39	7 43	5 46	
M 7	15 22	23 45	2 30	20 33	1 5	6 30	7 58	7 40	0 51	1 19	1 9	21 9	0 7	14 14	0 42	21 4	0 29	17 53	5 33	23 24	23 20	10 42	7 42	5 46	
T 8	15 3	21 43	3 28	20 35	0 54	6 35	8 6	7 21	0 51	1 14	1 9	21 8	0 7	14 13	0 42	21 4	0 29	17 53	5 33	23 23	23 20	10 45	7 41	5 46	
W 9	14 44	18 24	4 15	20 37	0 43	6 40	8 12	7 3	0 50	1 9	1 9	21 7	0 7	14 12	0 42	21 3	0 29	17 54	5 33	23 23	23 19	10 47	7 40	5 45	
T 10	14 24	13 58	4 48	20 37	0 32	6 47	8 18	6 44	0 50	1 4	1 9	21 6	0 7	14 11	0 42	21 3	0 29	17 54	5 33	23 23	23 19	10 50	7 38	5 45	
F 11	14 5	8 43	5 3	20 36	0 22	6 54	8 22	6 25	0 49	0 58	1 9	21 4	0 7	14 10	0 42	21 3	0 29	17 54	5 33	23 22	23 19	10 53	7 37	5 45	
S 12	13 45	2 57	5 0	20 34	0 12	7 2	8 26	6 7	0 48	0 53	1 9	21 3	0 7	14 8	0 42	21 2	0 29	17 54	5 33	23 22	23 19	10 56	7 36	5 45	
S 13	13 25	2s59	4 38	20 31	0 2	7 10	8 28	5 48	0 48	0 48	1 9	21 2	0 7	14 7	0 42	21 2	0 29	17 54	5 32	23 22	23 19	10 58	7 34	5 45	
M14	13 5	8 45	3 58	20 27	0s7	7 19	8 30	5 29	0 47	0 42	1 9	21 1	0 7	14 6	0 42	21 2	0 29	17 54	5 32	23 21	23 19	11 1	7 33	5 45	
T 15	12 44	14 1	3 4	20 21	0 17	7 28	8 31	5 10	0 47	0 37	1 8	21 0	0 7	14 5	0 42	21 1	0 29	17 54	5 32	23 21	23 19	11 4	7 32	5 45	
W16	12 24	18 29	2 0	20 15	0 26	7 38	8 30	4 52	0 46	0 32	1 8	20 59	0 7	14 4	0 42	21 1	0 29	17 55	5 32	23 21	23 18	11 6	7 30	5 45	
T 17	12 3	21 51	0 48	20 7	0 34	7 48	8 29	4 33	0 45	0 26	1 8	20 57	0 7	14 3	0 42	21 1	0 29	17 55	5 32	23 21	23 18	11 9	7 29	5 45	
F 18	11 42	23 54	0s25	19 57	0 42	7 58	8 27	4 14	0 45	0 21	1 8	20 56	0 7	14 1	0 42	21 0	0 29	17 55	5 32	23 21	23 18	11 12	7 28	5 45	
S 19	11 20	24 29	1 36	19 46	0 50	8 9	8 25	3 55	0 44	0 15	1 8	20 55	0 8	14 0	0 42	21 0	0 29	17 55	5 31	23 21	23 18	11 15	7 26	5 45	
S 20	10 59	23 37	2 40	19 35	0 58	8 20	8 21	3 36	0 44	0 10	1 8	20 54	0 8	13 59	0 42	21 0	0 29	17 55	5 31	23 21	23 18	11 17	7 25	5 45	
M21	10 37	21 26	3 35	19 21	1 5	8 30	8 17	3 17	0 43	0 4	1 8	20 53	0 8	13 58	0 42	20 59	0 29	17 55	5 31	23 21	23 18	11 20	7 23	5 45	
T 22	10 16	18 9	4 17	19 7	1 12	8 41	8 12	2 58	0 42	0n1	1 8	20 52	0 8	13 57	0 42	20 59	0 29	17 56	5 31	23 20	23 17	11 23	7 22	5 45	
W23	9 54	14 3	4 46	18 51	1 19	8 52	8 6	2 39	0 42	0 7	1 8	20 51	0 8	13 56	0 42	20 59	0 29	17 56	5 31	23 20	23 17	11 25	7 21	5 45	
T 24	9 32	9 24	5 0	18 34	1 25	9 2	8 0	2 20	0 41	0 12	1 8	20 49	0 8	13 55	0 42	20 58	0 29	17 56	5 31	23 19	23 17	11 28	7 19	5 45	
F 25	9 9	4 26	4 59	18 15	1 31	9 12	7 53	2 1	0 41	0 18	1 7	20 48	0 8	13 53	0 42	20 58	0 29	17 56	5 30	23 18	23 17	11 31	7 18	5 45	
S 26	8 47	0n37	4 44	17 56	1 36	9 22	7 46	1 42	0 40	0 23	1 7	20 47	0 8	13 52	0 42	20 58	0 29	17 56	5 30	23 18	23 17	11 33	7 17	5 45	
S 27	8 25	5 34	4 17	17 34	1 42	9 32	7 38	1 23	0 39	0 29	1 7	20 46	0 8	13 51	0 42	20 57	0 29	17 56	5 30	23 17	23 16	11 36	7 15	5 45	
M28	8s2	10n17	3s38	17s12	1s46	9s42	7n30	1s4	0s39	0n34	1s7	20s45	0s8	13s50	0s42	20s57	0n29	17n57	5s30	23n17	23n16	11n39	7s14	5n45	

Julian Day Number = 2329950.5, Delta T = 31.63 sec

Ecliptic obliquity = 23°28'58", Nutation = - 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°05'36", Lahiri = 19°12'37"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1667

geocentric

MARCH 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 35 3	10 ^h 28'22"	18 ^h 21'	19 ^h 20'	13 ^h R 6	29 ^h 34'	4 ^h 15'	28 ^h 31'	25 ^h 10'	23 ^h 34'	26 ^h R33	22 ^h R39	22 ^h 28'	10 ^h 25'	26 ^h 45'	T 1
W 2	10 38 59	11 ^h 28'26"	0 ^h 11' 9	20 ^h 51'	13 ^h D 5	0 ^h Y21	4 ^h 29'	28 ^h 7	25 ^h 14'	23 ^h 35'	26 ^h 11'32	22 ^h 11'37	22 ^h 25'	10 ^h 32'	26 ^h 49'	W 2
T 3	10 42 56	12 ^h 28'27"	12 ^h 3	22 ^h 23'	13 ^h 6	1 ^h 7	4 ^h 43'	28 ^h 13'	25 ^h 17'	23 ^h 37'	26 ^h 32'	22 ^h D36	22 ^h 22'	10 ^h 38'	26 ^h 54'	T 3
F 4	10 46 52	13 ^h 28'26"	24 ^h 6	23 ^h 56'	13 ^h 9	1 ^h 53'	4 ^h 57'	28 ^h 18'	25 ^h 20'	23 ^h 39'	26 ^h 32'	22 ^h R36	22 ^h 18'	10 ^h 45'	26 ^h 58'	F 4
S 5	10 50 49	14 ^h 28'23"	6 ^h 26'	25 ^h 30'	13 ^h 14'	2 ^h 39'	5 ^h 11'	28 ^h 24'	25 ^h 24'	23 ^h 40'	26 ^h 32'	22 ^h 36'	22 ^h 15'	10 ^h 52'	27 ^h 2	S 5
S 6	10 54 45	15 ^h 28'18"	19 ^h 6	27 ^h 6	13 ^h 22'	3 ^h 25'	5 ^h 25'	28 ^h 30'	25 ^h 27'	23 ^h 42'	26 ^h 32'	22 ^h 33'	22 ^h 12'	10 ^h 58'	27 ^h 6	S 6
M 7	10 58 42	16 ^h 28'10"	2 ^h 10'	28 ^h 42'	13 ^h 32'	4 ^h 11'	5 ^h 39'	28 ^h 35'	25 ^h 30'	23 ^h 43'	26 ^h 32'	22 ^h 29'	22 ^h 9	11 ^h 5	27 ^h 10'	M 7
T 8	11 2 38	17 ^h 28'01"	15 ^h 42'	0 ^h 20'	13 ^h 44'	4 ^h 56'	5 ^h 53'	28 ^h 41'	25 ^h 34'	23 ^h 45'	26 ^h 32'	22 ^h 21'	22 ^h 6	11 ^h 12'	27 ^h 14'	T 8
W 9	11 6 35	18 ^h 27'49"	29 ^h 40'	1 ^h 59'	13 ^h 59'	5 ^h 42'	6 ^h 7	28 ^h 46'	25 ^h 37'	23 ^h 47'	26 ^h 32'	22 ^h 11'	22 ^h 3	11 ^h 18'	27 ^h 18'	W 9
T 10	11 10 32	19 ^h 27'35"	14 ^h 11' 2	3 ^h 39'	14 ^h 15'	6 ^h 28'	6 ^h 21'	28 ^h 52'	25 ^h 40'	23 ^h 48'	26 ^h 32'	22 ^h 0	21 ^h 59'	11 ^h 25'	27 ^h 22'	T 10
F 11	11 14 28	20 ^h 27'19"	28 ^h 42'	5 ^h 20'	14 ^h 33'	7 ^h 14'	6 ^h 36'	28 ^h 57'	25 ^h 43'	23 ^h 49'	26 ^h D32	21 ^h 48'	21 ^h 56'	11 ^h 32'	27 ^h 25'	F 11
S 12	11 18 25	21 ^h 27'01"	13 ^h 23'32	7 ^h 3	14 ^h 54'	8 ^h 0	6 ^h 50'	29 ^h 2	25 ^h 47'	23 ^h 51'	26 ^h 32'	21 ^h 37'	21 ^h 53'	11 ^h 38'	27 ^h 29'	S 12
S 13	11 22 21	22 ^h 26'41"	28 ^h 22'	8 ^h 47'	15 ^h 16'	8 ^h 45'	7 ^h 4	29 ^h 7	25 ^h 50'	23 ^h 52'	26 ^h 32'	21 ^h 28'	21 ^h 50'	11 ^h 45'	27 ^h 33'	S 13
M14	11 26 18	23 ^h 26'19"	13 ^h 11' 6	10 ^h 31'	15 ^h 39'	9 ^h 31'	7 ^h 18'	29 ^h 12'	25 ^h 53'	23 ^h 54'	26 ^h 32'	21 ^h 21'	21 ^h 47'	11 ^h 52'	27 ^h 37'	M14
T 15	11 30 14	24 ^h 25'56"	27 ^h 37'	12 ^h 18'	16 ^h 5	10 ^h 16'	7 ^h 33'	29 ^h 17'	25 ^h 56'	23 ^h 55'	26 ^h 32'	21 ^h 18'	21 ^h 44'	11 ^h 58'	27 ^h 41'	T 15
W16	11 34 11	25 ^h 25'31"	11 ^h 27'51	14 ^h 5	16 ^h 32'	11 ^h 2	7 ^h 47'	29 ^h 22'	25 ^h 59'	23 ^h 56'	26 ^h 32'	21 ^h 17'	21 ^h 40'	12 ^h 5	27 ^h 45'	W16
T 17	11 38 7	26 ^h 25'04"	25 ^h 48'	15 ^h 54'	17 ^h 1	11 ^h 47'	8 ^h 1	29 ^h 27'	26 ^h 2	23 ^h 58'	26 ^h 32'	21 ^h 17'	21 ^h 37'	12 ^h 12'	27 ^h 49'	T 17
F 18	11 42 4	27 ^h 24'35"	9 ^h 37'27	17 ^h 44'	17 ^h 32'	12 ^h 33'	8 ^h 16'	29 ^h 32'	26 ^h 5	23 ^h 59'	26 ^h 32'	21 ^h 16'	21 ^h 34'	12 ^h 18'	27 ^h 52'	F 18
S 19	11 46 0	28 ^h 24'05"	22 ^h 51'	19 ^h 35'	18 ^h 4	13 ^h 18'	8 ^h 30'	29 ^h 37'	26 ^h 8	24 ^h 0	26 ^h 32'	21 ^h 14'	21 ^h 31'	12 ^h 25'	27 ^h 56'	S 19
S 20	11 49 57	29 ^h 23'33"	6 ^h 0	21 ^h 28'	18 ^h 37'	14 ^h 4	8 ^h 45'	29 ^h 42'	26 ^h 11'	24 ^h 1	26 ^h 33'	21 ^h 10'	21 ^h 28'	12 ^h 32'	28 ^h 0	S 20
M21	11 53 54	0 ^h Y22'59"	18 ^h 57'	23 ^h 22'	19 ^h 11'	14 ^h 49'	8 ^h 59'	29 ^h 46'	26 ^h 14'	24 ^h 3	26 ^h 33'	21 ^h 3	21 ^h 24'	12 ^h 38'	28 ^h 3	M21
T 22	11 57 50	1 ^h 22'24"	1 ^h 42'	25 ^h 17'	19 ^h 47'	15 ^h 34'	9 ^h 14'	29 ^h 51'	26 ^h 17'	24 ^h 4	26 ^h 33'	20 ^h 53'	21 ^h 21'	12 ^h 45'	28 ^h 7	T 22
W23	12 1 47	2 ^h 21'46"	14 ^h 16'	27 ^h 13'	20 ^h 25'	16 ^h 19'	9 ^h 28'	29 ^h 55'	26 ^h 20'	24 ^h 5	26 ^h 33'	20 ^h 41'	21 ^h 18'	12 ^h 52'	28 ^h 11'	W23
T 24	12 5 43	3 ^h 21'06"	26 ^h 40'	29 ^h 11'	21 ^h 3	17 ^h 5	9 ^h 42'	29 ^h 59'	26 ^h 23'	24 ^h 6	26 ^h 34'	20 ^h 27'	21 ^h 15'	12 ^h 58'	28 ^h 14'	T 24
F 25	12 9 40	4 ^h 20'24"	8 ^h Y55'	1 ^h Y 9	21 ^h 43'	17 ^h 50'	9 ^h 57'	0 ^h 4	26 ^h 26'	24 ^h 7	26 ^h 34'	20 ^h 14'	21 ^h 12'	13 ^h 5	28 ^h 18'	F 25
S 26	12 13 36	5 ^h 19'41"	21 ^h 0	3 ^h 9	22 ^h 23'	18 ^h 35'	10 ^h 11'	0 ^h 8	26 ^h 29'	24 ^h 8	26 ^h 34'	20 ^h 1	21 ^h 9	13 ^h 12'	28 ^h 21'	S 26
S 27	12 17 33	6 ^h 18'55"	2 ^h 35'57	5 ^h 10	23 ^h 5	19 ^h 20'	10 ^h 26'	0 ^h 13	26 ^h 32'	24 ^h 9	26 ^h 35'	19 ^h 51'	21 ^h 5	13 ^h 18'	28 ^h 25'	S 27
M28	12 21 29	7 ^h 18'06"	14 ^h 48'	7 ^h 12	23 ^h 48'	20 ^h 5	10 ^h 40'	0 ^h 17	26 ^h 35'	24 ^h 10	26 ^h 35'	19 ^h 43'	21 ^h 2	13 ^h 25'	28 ^h 28'	M28
T 29	12 25 26	8 ^h 17'16"	26 ^h 35'	9 ^h 15	24 ^h 31'	20 ^h 50'	10 ^h 55'	0 ^h 21	26 ^h 38'	24 ^h 11	26 ^h 35'	19 ^h 38'	20 ^h 59'	13 ^h 32'	28 ^h 32'	T 29
W30	12 29 23	9 ^h 16'24"	8 ^h Y23'	11 ^h 19	25 ^h 16'	21 ^h 35'	11 ^h 9	0 ^h 25	26 ^h 40'	24 ^h 12	26 ^h 36'	19 ^h 35'	20 ^h 56'	13 ^h 38'	28 ^h 35'	W30
T 31	12 33 19	10 ^h Y15'29"	20 ^h 11'15	13 ^h Y23'	26 ^h 2	22 ^h Y20'	11 ^h Y24'	0 ^h 29	26 ^h 43	24 ^h 13	26 ^h 11'36	19 ^h D35	20 ^h 11'53	13 ^h 45'	28 ^h 39'	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	7s39	14n35	2s51	16s48	1s51	9s51	7n21	0s45	0s38	0n40	1 s 7	20s44	0s 8	13s49	0s42	20s57	0n29	17n57	5s30	23n17	23n16	11n42	7s12	5n45					
W 2	7 16	18 20	1 56	16 23	1 55	10 0	7 13	0 26	0 37	0 45	1 7	20 43	0 8	13 48	0 42	20 57	0 29	17 57	5 30	23 17	23 16	11 44	7 11	5 45					
T 3	6 54	21 21	0 56	15 57	1 59	10 8	7 4	0 7	0 37	0 51	1 7	20 42	0 9	13 47	0 42	20 56	0 29	17 57	5 29	23 17	23 16	11 47	7 10	5 45					
F 4	6 31	23 29	0n 8	15 29	2 2	10 16	6 54	0n12	0 36	0 57	1 7	20 41	0 9	13 46	0 42	20 56	0 29	17 57	5 29	23 17	23 16	11 50	7 8	5 45					
S 5	6 7	24 32	1 13	15 0	2 5	10 24	6 45	0 31	0 36	1 2	1 7	20 40	0 9	13 44	0 42	20 56	0 29	17 57	5 29	23 17	23 15	11 52	7 7	5 45					
S 6	5 44	24 21	2 15	14 30	2 7	10 31	6 35	0 49	0 35	1 8	1 7	20 39	0 9	13 43	0 42	20 55	0 29	17 58	5 29	23 16	23 15	11 55	7 5	5 45					
M 7	5 21	22 51	3 13	13 58	2 9	10 38	6 25	1 8	0 34	1 14	1 7	20 38	0 9	13 42	0 42	20 55	0 29	17 58	5 29	23 16	23 15	11 58	7 4	5 45					
T 8	4 58	20 0	4 2	13 25	2 11	10 44	6 15	1 27	0 34	1 19	1 7	20 36	0 9	13 41	0 42	20 55	0 29	17 58	5 28	23 16	23 15	12 0	7 3	5 45					
W 9	4 34	15 56	4 38	12 51	2 12	10 50	6 5	1 46	0 33	1 25	1 7	20 35	0 9	13 40	0 42	20 55	0 29	17 58	5 28	23 15	23 15	12 3	7 1	5 46					
T 10	4 11	10 52	4 57	12 15	2 13	10 55	5 55	2 5	0 32	1 31	1 7	20 34	0 9	13 39	0 42	20 54	0 29	17 58	5 28	23 14	23 14	12 6	7 0	5 46					
F 11	3 47	5 4	4 58	11 38	2 14	10 59	5 45	2 23	0 32	1 36	1 6	20 33	0 9	13 38	0 42	20 54	0 29	17 58	5 28	23 14	23 14	12 8	6 58	5 46					
S 12	3 24	1s 4	4 39	11 0	2 13	11 3	5 35	2 42	0 31	1 42	1 6	20 32	0 9	13 37	0 42	20 54	0 29	17 59	5 28	23 13	23 14	12 11	6 57	5 46					
S 13	3 0	7 10	4 1	10 21	2 13	11 7	5 25	3 1	0 30	1 48	1 6	20 31	0 9	13 36	0 42	20 54	0 29	17 59	5 28	23 12	23 14	12 14	6 56	5 46					
M14	2 37	12 50	3 7	9 40	2 12	11 10	5 14	3 19	0 30	1 53	1 6	20 30	0 9	13 35	0 42	20 53	0 29	17 59	5 27	23 12	23 14	12 16	6 54	5 46					
T 15	2 13	17 41	2 2	8 58	2 10	11 12	5 4	3 38	0 29	1 59	1 6	20 30	0 10	13 34	0 42	20 53	0 29	17 59	5 27	23 12	23 13	12 19	6 54	5 46					
W16	1 49	21 26	0 50	8 15	2 9	11 14	4 54	3 56	0 29	2 5	1 6	20 29	0 10	13 33	0 42	20 53	0 29	17 59	5 27	23 12	23 13	12 22	6 51	5 46					
T 17	1 26	23 49	0s24	7 30	2 6	11 15	4 44	4 15	0 28	2 11	1 6	20 28	0 10	13 32	0 42	20 53	0 29	17 59	5 27	23 12	23 13	12 24	6 50	5 46					
F 18	1 2	24 43	1 35	6 45	2 3	11 16	4 34	4 33	0 27	2 16	1 6	20 27	0 10	13 31	0 42	20 52	0 29	18 0	5 27	23 12	23 13	12 27	6 49	5 46					
S 19	0 38	24 9	2 39	5 58	2 0	11 15	4 24	4 51	0 27	2 22	1 6	20 26	0 10	13 29	0 42	20 52	0 29	18 0	5 27	23 12	23 13	12 30	6 47	5 47					
S 20	0 15	22 14	3 33	5 10	1 56	11 15	4 14	5 9	0 26	2 28	1 6	20 25	0 10	13 28	0 42	20 52	0 29	18 0	5 26	23 11	23 12	12 32	6 46	5 47					
M21	0n 9	19 13	4 15	4 21	1 51	11 14	4 4	5 28	0 25	2 33	1 6	20 24	0 10	13 27	0 42	20 52	0 29	18 0	5 26	23 11	23 12	12 35	6 44	5 47					
T 22	0 33	15 18	4 44	3 30	1 46	11 12	3 54	5 46	0 25	2 39	1 6	20 23	0 10	13 26	0 42	20 52	0 29	18 0	5 26	23 10	23 12	12 38	6 43	5 47					
W23	0 56	10 47	4 58	2 39	1 41	11 9	3 45	6 4	0 24	2 45	1 6	20 22	0 10	13 25	0 42	20 51	0 29	18 1	5 26	23 9	23 12	12 40	6 42	5 47					
T 24	1 20	5 53	4 59	1 46	1 35	11 6	3 35	6 22	0 23	2 51	1 6	20 21	0 10	13 24	0 42	20 51	0 29	18 1	5 26	23 8	23 12	12 43	6 40	5 47					
F 25	1 24	0 50	4 45	0 53	1 28	11 3	3 26	6 39	0 23	2 56	1 6	20 21	0 10	13 24	0 42	20 51	0 29	18 1	5 25	23 7	23 11	12 46	6 39	5 47					
S 26	2 7	4n13	4 18	0n 1	1 21	10 59	3 16	6 57	0 22	3 2	1 6	20 20	0 11	13 23	0 43	20 51	0 29	18 1	5 25	23 6	23 11	12 48	6 38	5 48					
S 27	2 31	9 4	3 41	0 56	1 13	10 54	3 7	7 15	0 21	3 8	1 6	20 19	0 11	13 22	0 43	20 51	0 29	18 1	5 25	23 6	23 11	12 51	6 36	5 48					
M28	2 54	13 32	2 54	1 52	1 5	10 49	2 58	7 33	0 21	3 13	1 6	20 18	0 11	13 21	0 43	20 50	0 29	18 1	5 25	23 5	23 11	12 54	6 35	5 48					
T 29	3 18	17 30	1 59	2 48	0 57	10 43	2 49	7 50	0 20	3 19	1 6	20 17	0 11	13 20	0 43	20 50	0 29	18 2	5 25	23 5	23 11	12 56	6 34	5 48					
W30	3 41	20 46	0 59	3 45	0 48	10 36	2 40	8 8	0 19	3 25	1 6	20 17	0 11	13 19	0 43	20 50	0 29	18 2	5 25	23 4	23 10	12 59	6 32	5 48					
T 31	4n 4	23n11	0n 4	4n43	0s38	10s29	2n31	8n25	0s19	3n30	1s 6	20s16	0s11	13s18	0s43	20s50	0n29	18n 2	5s24	23n 4	23n10	13n 2	6s31	5n48					

ASTRODIENST EPHEMERIS for the year 1667

geocentric

APRIL 1667 GC

00:00 UT

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

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	4n27	24n35	1n 7	5n40	0s28	10s22	2n23	8n42	0s18	3n36	1s 6	20s15	0s11	13s17	0s43	20s50
S 2	4 50	24 49	2 9	6 37	0 18	10 14	2 14	8 59	0 17	3 42	1 6	20 14	0 11	13 16	0 43	20 50
S 3	5 13	23 48	3 6	7 35	0 7	10 5	2 6	9 16	0 17	3 48	1 6	20 14	0 11	13 15	0 43	20 50
M 4	5 36	21 30	3 56	8 32	0n 4	9 56	1 58	9 33	0 16	3 53	1 6	20 13	0 11	13 14	0 43	20 49
T 5	5 59	17 57	4 34	9 28	0 15	9 46	1 50	9 50	0 15	3 59	1 6	20 12	0 11	13 13	0 43	20 49
W 6	6 22	13 18	4 58	10 23	0 26	9 36	1 42	10 7	0 15	4 4	1 6	20 12	0 12	13 13	0 43	20 49
T 7	6 45	7 46	5 4	11 18	0 37	9 25	1 34	10 24	0 14	4 10	1 6	20 11	0 12	13 12	0 43	20 49
F 8	7 7	1 39	4 49	12 11	0 48	9 14	1 26	10 40	0 14	4 16	1 6	20 11	0 12	13 11	0 43	20 49
S 9	7 29	4s40	4 15	13 3	1 0	9 3	1 18	10 57	0 13	4 21	1 6	20 10	0 12	13 10	0 43	20 49
S 10	7 52	10 46	3 22	13 53	1 11	8 50	1 11	11 13	0 12	4 27	1 6	20 9	0 12	13 9	0 43	20 49
M 11	8 14	16 12	2 16	14 41	1 21	8 38	1 4	11 29	0 12	4 33	1 6	20 9	0 12	13 9	0 43	20 49
T 12	8 36	20 33	1 1	15 27	1 32	8 24	0 56	11 45	0 11	4 38	1 6	20 8	0 12	13 8	0 43	20 49
W 13	8 58	23 30	0s17	16 11	1 42	8 11	0 49	12 1	0 10	4 44	1 6	20 8	0 12	13 7	0 43	20 48
T 14	9 19	24 52	1 31	16 53	1 51	7 57	0 42	12 17	0 10	4 49	1 6	20 7	0 12	13 6	0 43	20 48
F 15	9 41	24 40	2 38	17 32	2 0	7 42	0 36	12 33	0 9	4 55	1 6	20 7	0 12	13 6	0 43	20 48
S 16	10 2	23 1	3 35	18 9	2 8	7 27	0 29	12 48	0 8	5 0	1 6	20 6	0 13	13 5	0 43	20 48
S 17	10 23	20 11	4 19	18 43	2 16	7 12	0 22	13 4	0 8	5 6	1 6	20 6	0 13	13 4	0 43	20 48
M 18	10 44	16 26	4 49	19 15	2 23	6 56	0 16	13 19	0 7	5 11	1 6	20 6	0 13	13 3	0 43	20 48
T 19	11 5	12 1	5 5	19 44	2 29	6 40	0 10	13 34	0 6	5 17	1 6	20 5	0 13	13 3	0 43	20 48
W 20	11 26	7 12	5 6	20 10	2 34	6 23	0 4	13 49	0 6	5 22	1 6	20 5	0 13	13 2	0 43	20 48
T 21	11 46	2 10	4 53	20 34	2 38	6 6	0s 2	14 4	0 5	5 28	1 6	20 4	0 13	13 1	0 43	20 48
F 22	12 7	2n55	4 27	20 55	2 41	5 49	0 8	14 19	0 4	5 33	1 6	20 4	0 13	13 1	0 43	20 48
S 23	12 27	7 50	3 49	21 14	2 44	5 31	0 14	14 33	0 4	5 39	1 6	20 4	0 13	13 0	0 43	20 48
S 24	12 47	12 28	3 2	21 30	2 45	5 13	0 19	14 48	0 3	5 44	1 6	20 3	0 13	13 0	0 43	20 48
M 25	13 7	16 37	2 7	21 43	2 45	4 54	0 25	15 2	0 2	5 49	1 6	20 3	0 13	12 59	0 43	20 48
T 26	13 26	20 7	1 7	21 54	2 44	4 36	0 30	15 16	0 2	5 55	1 6	20 3	0 14	12 58	0 43	20 48
W 27	13 45	22 48	0 3	22 2	2 42	4 17	0 35	15 30	0 1	6 0	1 6	20 3	0 14	12 58	0 43	20 48
T 28	14 4	24 30	1n 2	22 8	2 39	3 57	0 40	15 44	0 1	6 5	1 6	20 2	0 14	12 57	0 44	20 48
F 29	14 23	25 5	2 4	22 11	2 35	3 38	0 45	15 58	0n 0	6 11	1 6	20 2	0 14	12 57	0 44	20 48
S 30	14n42	24n27	3n 2	22n12	2n30	3s18	0s50	16n11	0n 1	6n16	1s 6	20s 2	0s14	12s56	0s44	20s48

Julian Day Number = 2330009.5, Delta T = 31.53 sec

Ecliptic obliquity = 23°28'59, Nutation = - 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°05'44, Lahiri = 19°12'45Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1667

geocentric

MAY 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	14 35 32	10°30'40	5°52'56	28°26'26	24°40'40	15°58'5	18°47'47	1°45'45	27°51'51	24°20'24	27°11'0	17°41'41	19°11'14	17°12'12	0°42'2	S 1
M 2	14 39 29	11°28'43	18°54'58	28°42'25	25°42'15	15°48'19	1°46'19	1°46'27	27°52'24	24°20'24	27°11'0	17°41'41	19°11'14	17°19'0	0°44'4	M 2
T 3	14 43 25	12°26'45	2°17'18	28°53'26	26°44'16	16°31'19	1°47'19	1°47'27	27°54'24	24°20'24	27°11'0	17°41'41	19°11'14	17°25'0	0°6'6	T 3
W 4	14 47 22	13°24'45	16°10'10	28°58'27	27°47'17	17°14'19	1°48'19	1°48'27	27°55'24	24°20'24	27°11'0	17°41'41	19°11'14	17°32'0	0°8'8	W 4
T 5	14 51 18	14°22'43	0°23'30	28°58'28	28°49'17	17°57'19	1°49'19	1°49'27	27°56'24	24°20'24	27°11'0	17°41'41	19°11'14	17°39'0	0°9'9	T 5
F 6	14 55 15	15°20'39	15°15'28	28°54'29	29°52'18	18°40'19	1°49'19	1°49'27	27°58'24	24°20'24	27°11'0	17°41'41	19°11'14	17°45'0	0°11'11	F 6
S 7	14 59 12	16°18'34	0°11'19	28°44'0	0°56'56	19°23'20	1°50'20	1°50'27	27°59'24	24°20'24	27°11'0	17°41'41	19°11'14	17°52'0	0°13'13	S 7
S 8	15 3 8	17°16'26	15°33'28	28°30'1	1°59'20	20°6'20	1°50'20	28°0'24	24°22'27	27°8'17	17°20'17	18°52'18	17°59'17	0°14'14	0°16'16	S 8
M 9	15 7 5	18°14'18	0°47'18	28°12'3	3°3'20	20°49'20	1°51'20	28°1'24	24°22'27	27°8'17	17°20'17	18°52'18	17°59'17	0°16'16	0°18'18	M 9
T 10	15 11 1	19°12'08	15°51'27	27°50'4	4°7'21	21°32'20	1°51'20	28°3'24	24°21'27	27°10'17	17°21'17	18°46'18	18°12'18	0°17'17	0°19'19	T 10
W 11	15 14 58	20°9'56	0°37'37	27°25'5	5°11'22	22°15'21	1°51'20	28°4'24	24°21'27	27°12'17	17°21'17	18°42'18	18°19'18	0°19'19	0°21'21	W 11
T 12	15 18 54	21°7'44	14°59'26	26°57'6	6°15'22	22°57'21	1°51'20	28°5'24	24°20'27	27°13'17	17°21'17	18°39'18	18°25'18	0°20'20	0°22'22	T 12
F 13	15 22 51	22°5'30	28°55'26	26°26'7	7°20'23	23°40'21	1°51'20	28°6'24	24°20'27	27°14'17	17°21'17	18°36'18	18°32'18	0°22'22	0°24'24	F 13
S 14	15 26 48	23°3'15	12°25'25	25°53'8	8°24'24	24°23'21	1°51'20	28°7'24	24°19'27	27°15'17	17°21'17	18°33'18	18°39'18	0°23'23	0°25'25	S 14
S 15	15 30 44	24°0'59	25°31'25	25°20'9	9°29'25	25°5'21	1°50'20	28°8'24	24°19'27	27°17'17	17°21'17	18°30'18	18°45'18	0°24'24	0°26'26	S 15
M 16	15 34 41	24°58'42	8°15'15	24°45'10	10°34'25	25°48'22	1°50'20	28°9'24	24°18'27	27°18'17	17°21'17	18°27'18	18°52'18	0°25'25	0°27'27	M 16
T 17	15 38 37	25°56'24	20°42'24	24°11'11	11°40'26	26°30'22	1°49'20	28°9'24	24°17'27	27°19'17	17°21'17	18°23'18	18°59'18	0°26'26	0°28'28	T 17
W 18	15 42 34	26°54'04	2°45'55	23°36'12	12°45'27	27°13'22	1°49'20	28°10'24	24°17'27	27°20'17	17°21'17	18°20'18	19°5'18	0°27'27	0°29'29	W 18
T 19	15 46 30	27°51'44	3°37'18	23°3'13	13°51'27	27°55'22	1°48'20	28°11'24	24°16'27	27°22'17	17°21'17	18°17'18	19°12'18	0°28'28	0°30'30	T 19
F 20	15 50 27	28°49'22	26°52'22	22°32'14	14°57'28	28°37'23	1°47'20	28°12'24	24°15'27	27°23'17	17°21'17	18°14'18	19°19'18	0°29'29	0°31'31	F 20
S 21	15 54 23	29°47'00	8°42'22	22°3'16	16°3'29	29°20'23	1°47'20	28°12'24	24°15'27	27°24'17	17°21'17	18°11'18	19°25'18	0°30'30	0°32'32	S 21
S 22	15 58 20	0°11'44	20°30'21	21°36'17	17°9'0	0°11'23	1°46'20	28°13'24	24°14'27	27°26'17	17°21'17	18°7'18	19°32'18	0°31'31	0°33'33	S 22
M 23	16 2 16	1°42'11	2°11'19	21°13'18	18°15'0	0°44'23	1°45'20	28°13'24	24°13'27	27°27'17	17°21'17	18°4'18	19°39'18	0°32'32	0°34'34	M 23
T 24	16 6 13	2°39'45	14°9'20	20°53'19	12°26'1	23°56'1	1°43'20	28°14'24	24°12'27	27°28'17	17°21'17	18°1'18	19°45'18	0°33'33	0°35'35	T 24
W 25	16 10 10	3°37'18	26°5'20	20°36'2	20°28'2	2°8'24	1°42'20	28°14'24	24°11'27	27°30'17	17°21'17	17°58'18	19°52'18	0°33'33	0°35'35	W 25
T 26	16 14 6	4°34'50	8°7'20	20°24'21	21°35'2	2°50'24	1°41'20	28°15'24	24°10'27	27°31'17	17°21'17	17°55'18	19°59'18	0°33'33	0°35'35	T 26
F 27	16 18 3	5°32'21	20°19'20	20°16'22	22°41'3	3°32'24	1°39'20	28°15'24	24°10'27	27°32'17	17°21'17	17°52'18	20°5'18	0°34'34	0°36'36	F 27
S 28	16 21 59	6°29'50	2°43'20	20°12'23	23°48'4	4°14'24	1°38'20	28°15'24	24°9'27	27°34'17	17°21'17	17°48'18	20°12'18	0°34'34	0°36'36	S 28
S 29	16 25 56	7°27'18	15°24'20	20°12'24	24°55'5	4°56'25	1°36'20	28°15'24	24°8'27	27°35'17	17°21'17	17°45'18	20°19'18	0°35'35	0°37'37	S 29
M 30	16 29 52	8°24'45	28°23'20	20°17'26	2°5'5	5°38'25	1°35'20	28°16'24	24°7'27	27°36'17	17°21'17	17°42'18	20°25'18	0°35'35	0°37'37	M 30
T 31	16 33 49	9°22'10	11°43'20	20°8'27	27°10'10	6°11'20	1°33'20	28°16'24	24°6'27	27°37'17	17°21'17	17°43'18	20°32'18	0°36'36	0°38'38	T 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	decl lat	
S 1	15n 0	22n35	3n53	22n11	2n24	2s57	0s54	16n25	0n 1	6m21	1s 6	20s 2	0s14	12s56	0s44	S 1
M 2	15 18	19 31	4 34	22 7	2 16	2 37	0 59	16 38	0 2	6 26	1 6	20 2	0 14	12 55	0 44	M 2
T 3	15 36	15 21	5 1	22 1	2 7	2 16	1 3	16 51	0 3	6 32	1 6	20 2	0 14	12 55	0 44	T 3
W 4	15 54	10 15	5 12	21 52	1 57	1 55	1 7	17 4	0 3	6 37	1 6	20 2	0 14	12 54	0 44	W 4
T 5	16 11	4 27	5 4	21 42	1 46	1 34	1 11	17 17	0 4	6 42	1 6	20 2	0 14	12 54	0 44	T 5
F 6	16 28	1s46	4 36	21 29	1 34	1 12	1 15	17 29	0 5	6 47	1 7	20 2	0 15	12 53	0 44	F 6
S 7	16 45	8 2	3 49	21 14	1 21	0 50	1 19	17 41	0 5	6 52	1 7	20 2	0 15	12 53	0 44	S 7
S 8	17 1	13 54	2 45	20 57	1 7	0 28	1 23	17 54	0 6	6 57	1 7	20 2	0 15	12 53	0 44	S 8
M 9	17 17	18 54	1 29	20 38	0 52	0 6	1 26	18 6	0 6	7 2	1 7	20 2	0 15	12 52	0 44	M 9
T 10	17 33	22 36	0 8	20 18	0 36	0n16	1 30	18 18	0 7	7 7	1 7	20 2	0 15	12 52	0 44	T 10
W 11	17 49	24 42	1s13	19 57	0 20	0 38	1 33	18 29	0 8	7 12	1 7	20 2	0 15	12 51	0 44	W 11
T 12	18 4	25 4	2 26	19 34	0 3	1 1	1 36	18 41	0 8	7 17	1 7	20 2	0 15	12 51	0 44	T 12
F 13	18 19	23 50	3 29	19 10	0s14	1 24	1 39	18 52	0 9	7 22	1 7	20 2	0 15	12 51	0 44	F 13
S 14	18 34	21 14	4 18	18 45	0 32	1 47	1 42	19 3	0 10	7 27	1 7	20 2	0 15	12 50	0 44	S 14
S 15	18 49	17 37	4 52	18 20	0 49	2 10	1 45	19 14	0 10	7 32	1 7	20 2	0 16	12 50	0 44	S 15
M 16	19 3	13 17	5 11	17 55	1 7	2 33	1 47	19 25	0 11	7 37	1 7	20 3	0 16	12 50	0 44	M 16
T 17	19 17	8 30	5 14	17 30	1 24	2 56	1 50	19 36	0 11	7 42	1 7	20 3	0 16	12 50	0 44	T 17
W 18	19 30	3 29	5 3	17 5	1 41	3 19	1 52	19 46	0 12	7 47	1 7	20 3	0 16	12 49	0 44	W 18
T 19	19 43	1n37	4 39	16 41	1 57	3 43	1 55	19 56	0 13	7 51	1 7	20 3	0 16	12 49	0 44	T 19
F 20	19 56	6 36	4 3	16 18	2 12	4 6	1 57	20 6	0 13	7 56	1 8	20 4	0 16	12 49	0 44	F 20
S 21	20 8	11 19	3 16	15 57	2 27	4 30	1 59	20 16	0 14	8 1	1 8	20 4	0 16	12 49	0 44	S 21
S 22	20 21	15 38	2 22	15 37	2 41	4 53	2 1	20 26	0 14	8 6	1 8	20 4	0 16	12 49	0 44	S 22
M 23	20 32	19 20	1 21	15 18	2 53	5 17	2 2	20 35	0 15	8 10	1 8	20 4	0 16	12 49	0 44	M 23
T 24	20 44	22 16	0 16	15 2	3 5	5 41	2 4	20 44	0 16	8 15	1 8	20 5	0 17	12 48	0 45	T 24
W 25	20 55	24 15	0n50	14 47	3 16	6 4	2 5	20 54	0 16	8 19	1 8	20 5	0 17	12 48	0 45	W 25
T 26	21 6	25 8	1 54	14 35	3 25	6 28	2 7	21 2	0 17	8 24	1 8	20 6	0 17	12 48	0 45	T 26
F 27	21 16	24 49	2 54	14 25	3 33	6 51	2 8	21 11	0 17	8 29	1 8	20 6	0 17	12 48	0 45	F 27
S 28	21 26	23 16	3 47	14 17	3 40	7 15	2 9	21 20	0 18	8 33	1 8	20 6	0 17	12 48	0 45	S 28
S 29	21 36	20 33	4 30	14 12	3 46	7 39	2 10	21 28	0 19	8 38	1 8	20 7	0 17	12 48	0 45	S 29
M 30	21 45	16 45	5 1	14 8	3 51	8 2	2 11	21 36	0 19	8 42	1 8	20 7	0 17	12 48	0 45	M 30
T 31	21n54	12n 3	5n16	14n 8	3s54	8n25	2s12	21n44	0n20	8n46	1s 9	20s 8	0s17	12s48	0s45	T 31

Julian Day Number = 2330039.5, Delta T = 31.47 sec
 Ecliptic obliquity = 23°28'59, Nutation = - 0°00'18, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°05'48, Lahiri = 19°12'49Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1667
geocentric

JUNE 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 37 46	10 ^{II} 19'35	25 ^{III} 27	20 ^{III} 40	28 ^V 17	7 ^{II} 1	25 ^V 35	1°R31	28 ^{III} 16	24°R 5	27 ^{II} 39	17°R 8	17 ^{II} 36	20 ^{III} 38	0 ^{III} 35	W 1
T 2	16 41 42	11°16'58	9 ^{II} 35	20°59	29°25	7°43	25°48	1 ^{III} 29	28°R16	24 ^{III} 4	27°41	17 ^{II} 8	17°33	20°45	0°36	T 2
F 3	16 45 39	12°14'20	24° 6	21°22	0 ^{III} 32	8°25	26° 0	1°27	28°16	24° 2	27°42	17° 7	17°29	20°52	0°36	F 3
S 4	16 49 35	13°11'41	8 ^{III} 55	21°49	1°40	9° 6	26°12	1°25	28°16	24° 1	27°43	17° 7	17°26	20°58	0°R36	S 4
S 5	16 53 32	14° 9'01	23°57	22°20	2°48	9°48	26°24	1°23	28°16	24° 0	27°45	17° 6	17°23	21° 5	0°36	S 5
M 6	16 57 28	15° 6'20	9 ^{II} 4	22°56	3°56	10°29	26°35	1°20	28°16	23°59	27°46	17° 6	17°20	21°12	0°35	M 6
T 7	17 1 25	16° 3'38	24° 6	23°35	5° 4	11°11	26°47	1°18	28°15	23°58	27°48	17°D 6	17°17	21°18	0°35	T 7
W 8	17 5 21	17° 0'56	8 ^{III} 55	24°19	6°12	11°52	26°59	1°16	28°15	23°57	27°49	17°R 6	17°13	21°25	0°35	W 8
T 9	17 9 18	17°58'13	23°24	25° 7	7°20	12°33	27°10	1°13	28°15	23°56	27°51	17° 6	17°10	21°32	0°35	T 9
F 10	17 13 15	18°55'30	7 ^{III} 28	25°59	8°29	13°15	27°22	1°10	28°15	23°54	27°52	17° 6	17° 7	21°38	0°34	F 10
S 11	17 17 11	19°52'46	21° 7	26°54	9°37	13°56	27°33	1° 8	28°14	23°53	27°53	17° 6	17° 4	21°45	0°34	S 11
S 12	17 21 8	20°50'02	4 ^{III} 19	27°54	10°46	14°37	27°45	1° 5	28°14	23°52	27°55	17° 5	17° 1	21°52	0°34	S 12
M13	17 25 4	21°47'17	17° 7	28°57	11°54	15°18	27°56	1° 2	28°13	23°50	27°56	17°D 5	16°58	21°58	0°33	M13
T 14	17 29 1	22°44'33	29°34	0 ^{II} 3	13° 3	15°59	28° 7	0°59	28°13	23°49	27°58	17° 5	16°54	22° 5	0°33	T 14
W15	17 32 57	23°41'48	11 ^{II} 46	1°13	14°12	16°40	28°18	0°56	28°12	23°48	27°59	17° 6	16°51	22°12	0°32	W15
T 16	17 36 54	24°39'02	23°45	2°27	15°21	17°21	28°29	0°53	28°11	23°46	28° 1	17° 6	16°48	22°18	0°31	T 16
F 17	17 40 50	25°36'17	5 ^{III} 37	3°44	16°30	18° 2	28°40	0°50	28°11	23°45	28° 2	17° 7	16°45	22°25	0°30	F 17
S 18	17 44 47	26°33'32	17°25	5° 5	17°39	18°43	28°51	0°47	28°10	23°44	28° 4	17° 8	16°42	22°32	0°30	S 18
S 19	17 48 44	27°30'46	29°13	6°28	18°48	19°24	29° 1	0°43	28° 9	23°42	28° 5	17° 9	16°39	22°38	0°29	S 19
M20	17 52 40	28°28'00	11 ^{II} 4	7°56	19°57	20° 5	29°12	0°40	28° 9	23°41	28° 6	17° 9	16°35	22°45	0°28	M20
T 21	17 56 37	29°25'14	23° 1	9°26	21° 7	20°46	29°22	0°37	28° 8	23°39	28° 8	17°R 9	16°32	22°52	0°27	T 21
W22	18 0 33	0 ^{III} 22'28	5 ^{III} 6	11° 0	22°16	21°27	29°33	0°33	28° 7	23°38	28° 9	17° 9	16°29	22°58	0°26	W22
T 23	18 4 30	1°19'41	17°22	12°37	23°25	22° 7	29°43	0°30	28° 6	23°37	28°11	17° 7	16°26	23° 5	0°25	T 23
F 24	18 8 26	2°16'54	29°48	14°18	24°35	22°48	29°53	0°26	28° 5	23°35	28°12	17° 5	16°23	23°12	0°24	F 24
S 25	18 12 23	3°14'07	12 ^{II} 27	16° 1	25°45	23°29	0 ^{III} 3	0°22	28° 4	23°34	28°14	17° 3	16°19	23°18	0°22	S 25
S 26	18 16 19	4°11'20	25°21	17°48	26°54	24° 9	0°13	0°19	28° 3	23°32	28°15	17° 1	16°16	23°25	0°21	S 26
M27	18 20 16	5° 8'32	8 ^{III} 29	19°37	28° 4	24°50	0°22	0°15	28° 2	23°31	28°17	16°59	16°13	23°32	0°20	M27
T 28	18 24 13	6° 5'43	21°54	21°30	29°14	25°30	0°32	0°11	28° 0	23°29	28°18	16°58	16°10	23°38	0°18	T 28
W29	18 28 9	7° 2'55	5 ^{III} 36	23°24	0 ^{II} 24	26°11	0°42	0° 7	27°59	23°28	28°20	16°D57	16° 7	23°45	0°17	W29
T 30	18 32 6	8 ^{III} 0'06	19 ^{III} 35	25 ^{II} 22	1 ^{II} 34	26 ^{II} 51	0 ^{III} 51	0 ^{III} 3	27 ^{III} 58	23 ^{III} 26	28 ^{II} 21	16 ^{II} 57	16 ^{II} 4	23 ^{III} 52	0 ^{III} 16	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 2	6n37	5n14	14n 9	3s57	8n49	2s13	21n51	0n20	8n51	1s 9	20s 8	0s17	12s48	0s45	20s51	0n29	18n12	5s16	22n52	22n54	15n41	5s35	6n 6	
T 2	22 10	0 41	4 53	14 12	3 58	9 12	2 14	21 59	0 21	8 55	1 9	20 9	0 17	12 48	0 45	20 51	0 29	18 12	5 16	22 52	22 54	15 44	5 34	6 6	
F 3	22 18	5s26	4 14	14 18	3 58	9 35	2 14	22 6	0 22	8 59	1 9	20 10	0 18	12 48	0 45	20 52	0 29	18 12	5 16	22 51	22 54	15 46	5 34	6 6	
S 4	22 25	11 23	3 17	14 25	3 58	9 58	2 15	22 13	0 22	9 3	1 9	20 10	0 18	12 48	0 45	20 52	0 29	18 12	5 16	22 51	22 53	15 49	5 34	6 7	
S 5	22 32	16 46	2 5	14 35	3 56	10 21	2 15	22 20	0 23	9 8	1 9	20 11	0 18	12 48	0 45	20 52	0 29	18 12	5 16	22 51	22 53	15 51	5 33	6 7	
M 6	22 39	21 7	0 45	14 46	3 54	10 44	2 15	22 27	0 23	9 12	1 9	20 11	0 18	12 48	0 45	20 52	0 29	18 12	5 16	22 51	22 53	15 54	5 33	6 7	
T 7	22 45	24 0	0s39	14 59	3 50	11 7	2 15	22 33	0 24	9 16	1 9	20 12	0 18	12 48	0 45	20 52	0 29	18 12	5 16	22 51	22 52	15 56	5 33	6 8	
W 8	22 51	25 9	1 58	15 14	3 46	11 29	2 15	22 39	0 25	9 20	1 10	20 13	0 18	12 48	0 45	20 52	0 29	18 12	5 15	22 51	22 52	15 59	5 33	6 8	
T 9	22 56	24 33	3 8	15 30	3 41	11 51	2 15	22 45	0 25	9 24	1 10	20 13	0 18	12 49	0 45	20 53	0 29	18 13	5 15	22 51	22 52	16 1	5 32	6 8	
F 10	23 1	22 23	4 5	15 48	3 35	12 13	2 15	22 51	0 26	9 28	1 10	20 14	0 18	12 49	0 45	20 53	0 29	18 13	5 15	22 51	22 51	16 4	5 32	6 9	
S 11	23 6	19 0	4 46	16 7	3 29	12 35	2 15	22 57	0 26	9 32	1 10	20 15	0 18	12 49	0 45	20 53	0 29	18 13	5 15	22 51	22 51	16 6	5 32	6 9	
S 12	23 10	14 45	5 10	16 27	3 22	12 57	2 14	23 2	0 27	9 36	1 10	20 15	0 19	12 49	0 45	20 53	0 29	18 13	5 15	22 51	22 51	16 9	5 32	6 9	
M13	23 14	9 58	5 18	16 48	3 14	13 19	2 14	23 7	0 27	9 40	1 10	20 16	0 19	12 49	0 45	20 54	0 29	18 13	5 15	22 51	22 51	16 11	5 32	6 10	
T 14	23 17	4 55	5 10	17 10	3 6	13 40	2 13	23 12	0 28	9 44	1 10	20 17	0 19	12 50	0 45	20 54	0 29	18 13	5 15	22 51	22 50	16 14	5 32	6 10	
W15	23 20	0n14	4 49	17 33	2 57	14 1	2 12	23 17	0 29	9 48	1 10	20 18	0 19	12 50	0 45	20 54	0 29	18 13	5 15	22 51	22 50	16 16	5 32	6 10	
T 16	23 22	5 17	4 15	17 57	2 48	14 22	2 12	23 22	0 29	9 51	1 11	20 18	0 19	12 50	0 45	20 54	0 29	18 13	5 15	22 51	22 50	16 19	5 32	6 10	
F 17	23 25	10 6	3 31	18 21	2 38	14 43	2 11	23 26	0 30	9 55	1 11	20 19	0 19	12 50	0 45	20 55	0 29	18 13	5 15	22 51	22 49	16 21	5 32	6 11	
S 18	23 26	14 32	2 38	18 46	2 27	15 3	2 10	23 30	0 30	9 59	1 11	20 20	0 19	12 51	0 45	20 55	0 29	18 13	5 15	22 52	22 49	16 24	5 32	6 11	
S 19	23 28	18 26	1 38	19 11	2 17	15 23	2 9	23 34	0 31	10 2	1 11	20 21	0 19	12 51	0 46	20 55	0 29	18 13	5 15	22 52	22 49	16 26	5 32	6 11	
M20	23 28	21 35	0 34	19 36	2 6	15 42	2 8	23 38	0 31	10 6	1 11	20 22	0 19	12 51	0 46	20 55	0 29	18 13	5 15	22 52	22 48	16 29	5 32	6 12	
T 21	23 29	23 50	0n32	20 1	1 54	16 2	2 7	23 41	0 32	10 9	1 11	20 22	0 20	12 52	0 46	20 56	0 29	18 14	5 15	22 52	22 48	16 31	5 32	6 12	
W22	23 29	25 1	1 38	20 26	1 43	16 21	2 5	23 45	0 32	10 13	1 11	20 23	0 20	12 52	0 46	20 56	0 29	18 14	5 15	22 52	22 48	16 34	5 32	6 12	
T 23	23 29	24 59	2 40	20 51	1 31	16 40	2 4	23 48	0 33	10 16	1 12	20 24	0 20	12 52	0 46	20 56	0 29	18 14	5 15	22 52	22 47	16 36	5 32	6 13	
F 24	23 28	23 43	3 35	21 15	1 19	16 58	2 3	23 51	0 33	10 20	1 12	20 25	0 20	12 53	0 46	20 56	0 29	18 14	5 15	22 51	22 47	16 38	5 32	6 13	
S 25	23 27	21 15	4 20	21 38	1 7	17 16	2 1	23 53	0 34	10 23	1 12	20 26	0 20	12 53	0 46	20 57	0 29	18 14	5 14	22 51	22 47	16 41	5 32	6 13	
S 26	23 25	17 42	4 53	22 0	0 55	17 34	2 0	23 56	0 35	10 27	1 12	20 27	0 20	12 53	0 46	20 57	0 29	18 14	5 14	22 51	22 46	16 43	5 32	6 13	
M27	23 23	13 13	5 12	22 22	0 43	17 51	1 58	23 58	0 35	10 30	1 12	20 28	0 20	12 54	0 46	20 57	0 29	18 14	5 14	22 51	22 46	16 46	5 33	6 14	
T 28	23 21	8 2	5 14	22 42	0 31	18 8	1 56	24 0	0 36	10 33	1 12	20 29	0 20	12 54	0 46	20 57	0 29	18 14	5 14	22 51	22 46	16 48	5 33	6 14	
W29	23 18	2 21	4 59	23 0	0 19	18 24	1 55	24 2	0 36	10 36	1 13	20 30	0 20	12 55	0 46	20 58	0 29	18 14	5 14	22 51	22 45	16 51	5 33	6 14	
T 30	23n14	3s34	4n26	23n17	0s 7	18n40	1s53	24n 3	0n37	10n39	1s13	20s31	0s20	12s55	0s46	20s58	0n29	18n14	5s14	22n51	22n45	16n53	5s33	6n14	

ASTRODIENST EPHEMERIS for the year 1667
geocentric

JULY 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	18 36 2	8♌57'17	3♍50	27♊22	2♊44	27♊31	1♈0	29°R59	27°R57	23°R24	28♊22	16♊58	16♊0	23♌58	0°R14	F 1
S 2	18 39 59	9°54'27	18°20	29°24	3°54	28°12	1°10	29♌55	27♎55	23♌23	28°24	17°0	15°57	24°5	0♈12	S 2
S 3	18 43 55	10°51'38	3♊1	1♌28	5°4	28°52	1°19	29°51	27°54	23°21	28°25	17°1	15°54	24°12	0°11	S 3
M 4	18 47 52	11°48'48	17°47	3°33	6°14	29°32	1°28	29°47	27°53	23°20	28°27	17°R 1	15°51	24°18	0°9	M 4
T 5	18 51 48	12°45'59	2♌33	5°40	7°25	0♌12	1°36	29°43	27°51	23°18	28°28	17°1	15°48	24°25	0°7	T 5
W 6	18 55 45	13°43'10	17°10	7°48	8°35	0°53	1°45	29°39	27°50	23°17	28°30	16°59	15°45	24°32	0°6	W 6
T 7	18 59 42	14°40'21	1♎34	9°57	9°46	1°33	1°54	29°35	27°48	23°15	28°31	16°56	15°41	24°38	0°4	T 7
F 8	19 3 38	15°37'32	15°37	12°6	10°56	2°13	2°2	29°31	27°47	23°13	28°32	16°52	15°38	24°45	0°2	F 8
S 9	19 7 35	16°34'43	29°18	14°15	12°7	2°53	2°10	29°26	27°45	23°12	28°34	16°47	15°35	24°52	0°0	S 9
S 10	19 11 31	17°31'55	12♋33	16°24	13°17	3°33	2°18	29°22	27°44	23°10	28°35	16°43	15°32	24°58	29♎58	S 10
M 11	19 15 28	18°29'08	25°24	18°33	14°28	4°13	2°26	29°18	27°42	23°9	28°37	16°40	15°29	25°5	29°56	M 11
T 12	19 19 24	19°26'21	7♊54	20°41	15°39	4°53	2°34	29°13	27°40	23°7	28°38	16°38	15°25	25°11	29°54	T 12
W 13	19 23 21	20°23'35	20°7	22°48	16°50	5°32	2°42	29°9	27°38	23°5	28°39	16°D37	15°22	25°18	29°52	W 13
T 14	19 27 18	21°20'50	2♌6	24°54	18°1	6°12	2°49	29°5	27°37	23°4	28°41	16°38	15°19	25°25	29°50	T 14
F 15	19 31 14	22°18'05	13°57	26°59	19°12	6°52	2°57	29°0	27°35	23°2	28°42	16°39	15°16	25°31	29°48	F 15
S 16	19 35 11	23°15'21	25°46	29°3	20°23	7°32	3°4	28°56	27°33	23°0	28°43	16°41	15°13	25°38	29°46	S 16
S 17	19 39 7	24°12'38	7♊35	1♌6	21°34	8°11	3°11	28°51	27°31	22°59	28°45	16°42	15°10	25°45	29°43	S 17
M 18	19 43 4	25°9'56	19°31	3°7	22°45	8°51	3°18	28°47	27°29	22°57	28°46	16°R43	15°6	25°51	29°41	M 18
T 19	19 47 0	26°7'14	1♌36	5°6	23°56	9°31	3°25	28°43	27°27	22°56	28°47	16°41	15°3	25°58	29°39	T 19
W 20	19 50 57	27°4'34	13°53	7°4	25°8	10°10	3°32	28°38	27°26	22°54	28°49	16°38	15°0	26°5	29°36	W 20
T 21	19 54 53	28°1'54	26°24	9°0	26°19	10°50	3°38	28°34	27°24	22°52	28°50	16°34	14°57	26°11	29°34	T 21
F 22	19 58 50	28°59'14	9♌9	10°54	27°30	11°29	3°45	28°29	27°22	22°51	28°51	16°27	14°54	26°18	29°31	F 22
S 23	20 2 47	29°56'36	22°9	12°47	28°42	12°9	3°51	28°25	27°20	22°49	28°53	16°20	14°51	26°25	29°29	S 23
S 24	20 6 43	0♌53'58	5♊24	14°38	29°53	12°48	3°57	28°20	27°18	22°47	28°54	16°13	14°47	26°31	29°26	S 24
M 25	20 10 40	1°51'20	18°51	16°28	1♌5	13°28	4°3	28°16	27°15	22°46	28°55	16°6	14°44	26°38	29°24	M 25
T 26	20 14 36	2°48'43	2♌29	18°16	2°16	14°7	4°8	28°11	27°13	22°44	28°56	16°1	14°41	26°45	29°21	T 26
W 27	20 18 33	3°46'07	16°18	20°2	3°28	14°46	4°14	28°7	27°11	22°43	28°58	15°57	14°38	26°51	29°19	W 27
T 28	20 22 29	4°43'31	0♍17	21°46	4°40	15°26	4°19	28°3	27°9	22°41	28°59	15°D56	14°35	26°58	29°16	T 28
F 29	20 26 26	5°40'56	14°23	23°29	5°52	16°5	4°25	27°58	27°7	22°39	29°0	15°56	14°31	27°5	29°13	F 29
S 30	20 30 22	6°38'21	28°37	25°10	7°4	16°44	4°30	27°54	27°5	22°38	29°1	15°57	14°28	27°11	29°11	S 30
S 31	20 34 19	7♌35'48	12♊56	26♌50	8♌15	17♌23	4♌35	27♌50	27♎3	22♌36	29♊3	15°R58	14♊25	27♌18	29♎8	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	23n11	9s26	3n36	23n32	0n 4	18n56	1s51	24n 5	0n37	10n42	1s13	20s31	0s21	12s56	0s46	20s58	0n29	18n14	5s14	22n51	22n45	16n55	5s34	6n15	
S 2	23 7	14 53	2 32	23 44	0 15	19 11	1 49	24 6	0 38	10 45	1 13	20 32	0 21	12 56	0 46	20 58	0 29	18 14	5 14	22 51	22 44	16 58	5 34	6 15	
S 3	23 2	19 33	1 16	23 54	0 26	19 26	1 47	24 7	0 38	10 48	1 13	20 33	0 21	12 57	0 46	20 59	0 29	18 14	5 14	22 51	22 44	17 0	5 34	6 15	
M 4	22 57	22 59	0s 4	24 2	0 36	19 40	1 45	24 8	0 39	10 51	1 13	20 34	0 21	12 57	0 46	20 59	0 29	18 14	5 14	22 51	22 44	17 3	5 34	6 16	
T 5	22 52	24 52	1 24	24 7	0 46	19 54	1 43	24 8	0 39	10 54	1 14	20 35	0 21	12 58	0 46	20 59	0 29	18 14	5 14	22 51	22 43	17 5	5 35	6 16	
W 6	22 46	25 0	2 38	24 10	0 55	20 7	1 40	24 9	0 40	10 57	1 14	20 36	0 21	12 58	0 46	20 59	0 29	18 14	5 14	22 51	22 43	17 8	5 35	6 16	
T 7	22 40	23 26	3 41	24 10	1 3	20 20	1 38	24 9	0 40	11 0	1 14	20 37	0 21	12 59	0 46	21 0	0 29	18 14	5 14	22 50	22 43	17 10	5 36	6 16	
F 8	22 34	20 27	4 28	24 7	1 11	20 32	1 36	24 9	0 41	11 2	1 14	20 38	0 21	12 59	0 46	21 0	0 29	18 14	5 14	22 50	22 42	17 12	5 36	6 16	
S 9	22 27	16 24	4 59	24 1	1 18	20 44	1 34	24 9	0 41	11 5	1 14	20 39	0 21	13 0	0 46	21 0	0 29	18 14	5 14	22 50	22 42	17 15	5 37	6 17	
S 10	22 20	11 40	5 12	23 52	1 25	20 56	1 31	24 8	0 42	11 8	1 15	20 40	0 21	13 0	0 46	21 1	0 29	18 14	5 14	22 49	22 42	17 17	5 37	6 17	
M11	22 12	6 33	5 9	23 41	1 30	21 6	1 29	24 7	0 42	11 10	1 15	20 41	0 22	13 1	0 46	21 1	0 29	18 15	5 14	22 49	22 41	17 20	5 37	6 17	
T 12	22 4	1 20	4 52	23 27	1 35	21 17	1 26	24 7	0 43	11 13	1 15	20 42	0 22	13 2	0 46	21 1	0 29	18 15	5 14	22 49	22 41	17 22	5 38	6 17	
W13	21 56	3n50	4 21	23 11	1 39	21 26	1 24	24 5	0 43	11 15	1 15	20 43	0 22	13 2	0 46	21 1	0 29	18 15	5 14	22 49	22 41	17 24	5 39	6 18	
T 14	21 47	8 47	3 40	22 52	1 42	21 36	1 21	24 4	0 44	11 18	1 15	20 44	0 22	13 3	0 46	21 2	0 29	18 15	5 14	22 49	22 40	17 27	5 39	6 18	
F 15	21 38	13 22	2 49	22 31	1 45	21 44	1 19	24 3	0 44	11 20	1 15	20 45	0 22	13 4	0 46	21 2	0 29	18 15	5 14	22 49	22 40	17 29	5 40	6 18	
S 16	21 29	17 25	1 52	22 8	1 47	21 52	1 16	24 1	0 45	11 22	1 16	20 46	0 22	13 4	0 46	21 2	0 29	18 15	5 14	22 49	22 40	17 31	5 40	6 18	
S 17	21 19	20 48	0 50	21 42	1 48	22 0	1 13	23 59	0 45	11 25	1 16	20 47	0 22	13 5	0 46	21 3	0 29	18 15	5 14	22 49	22 39	17 34	5 41	6 18	
M18	21 8	23 19	0n15	21 15	1 48	22 6	1 11	23 57	0 46	11 27	1 16	20 48	0 22	13 6	0 46	21 3	0 29	18 15	5 14	22 49	22 39	17 36	5 41	6 19	
T 19	20 58	24 49	1 20	20 47	1 48	22 13	1 8	23 55	0 46	11 29	1 16	20 49	0 22	13 6	0 46	21 3	0 29	18 15	5 14	22 49	22 39	17 39	5 42	6 19	
W20	20 47	25 7	2 22	20 16	1 47	22 18	1 5	23 52	0 47	11 31	1 16	20 50	0 22	13 7	0 46	21 3	0 29	18 15	5 14	22 49	22 38	17 41	5 43	6 19	
T 21	20 36	24 10	3 19	19 44	1 46	22 23	1 2	23 50	0 47	11 33	1 17	20 51	0 22	13 8	0 47	21 4	0 29	18 15	5 14	22 48	22 38	17 43	5 43	6 19	
F 22	20 24	21 57	4 6	19 11	1 44	22 28	1 0	23 47	0 48	11 35	1 17	20 52	0 23	13 8	0 47	21 4	0 29	18 15	5 14	22 48	22 38	17 46	5 44	6 19	
S 23	20 12	18 35	4 42	18 37	1 41	22 32	0 57	23 44	0 48	11 37	1 17	20 53	0 23	13 9	0 47	21 4	0 29	18 15	5 14	22 47	22 37	17 48	5 45	6 19	
S 24	20 0	14 14	5 3	18 2	1 38	22 35	0 54	23 41	0 49	11 39	1 17	20 54	0 23	13 10	0 47	21 5	0 29	18 15	5 14	22 46	22 37	17 50	5 46	6 19	
M25	19 47	9 8	5 8	17 26	1 34	22 37	0 51	23 37	0 49	11 41	1 17	20 55	0 23	13 11	0 47	21 5	0 29	18 15	5 14	22 45	22 36	17 53	5 46	6 20	
T 26	19 34	3 32	4 56	16 49	1 30	22 39	0 48	23 34	0 50	11 42	1 18	20 56	0 23	13 11	0 47	21 5	0 29	18 15	5 14	22 45	22 36	17 55	5 47	6 20	
W27	19 21	2s19	4 26	16 11	1 25	22 41	0 45	23 30	0 50	11 44	1 18	20 57	0 23	13 12	0 47	21 5	0 29	18 15	5 14	22 44	22 36	17 57	5 48	6 20	
T 28	19 7	8 8	3 41	15 32	1 20	22 41	0 43	23 26	0 51	11 46	1 18	20 58	0 23	13 13	0 47	21 6	0 29	18 15	5 14	22 44	22 35	18 0	5 49	6 20	
F 29	18 53	13 37	2 42	14 53	1 15	22 41	0 40	23 22	0 51	11 47	1 18	20 59	0 23	13 14	0 47	21 6	0 29	18 15	5 14	22 44	22 35	18 2	5 49	6 20	
S 30	18 39	18 23	1 32	14 14	1 9	22 41	0 37	23 17	0 52	11 49	1 19	21 0	0 23	13 14	0 47	21 6	0 29	18 15	5 14	22 44	22 35	18 4	5 50	6 20	
S 31	18n24	22s 7	0n16	13n34	1n 2	22n40	0s34	23n13	0n52	11n50	1s19	21s 1	0s23	13s15	0s47	21s 6	0n29	18n15	5s14	22n45	22n34	18n 7	5s51	6n20	

Julian Day Number = 2330100.5, Delta T = 31.36 sec
Ecliptic obliquity = 23°28'59, Nutation = -0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°05'57, Lahiri = 19°12'57Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1667

geocentric

AUGUST 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 38 16	8♂33'15	27♂18	28♂27	9♂27	18♂2	4♂39	27°R45	27°R 0	22°R35	29♂ 4	15°R58	14♂22	27♂25	29°R 5	M 1
T 2	20 42 12	9°30'43	11♂39	0♂ 4	10°39	18°41	4°44	27♂41	26°58	22♂33	29° 5	15♂55	14°19	27°31	29° 2	T 2
W 3	20 46 9	10°28'11	25°55	1°38	11°52	19°20	4°48	27°37	26°56	22°32	29° 6	15°50	14°16	27°38	29° 0	W 3
T 4	20 50 5	11°25'41	10♂ 1	3°11	13° 4	19°59	4°52	27°32	26°54	22°30	29° 7	15°43	14°12	27°44	28°57	T 4
F 5	20 54 2	12°23'12	23°52	4°43	14°16	20°38	4°56	27°28	26°51	22°29	29° 8	15°35	14° 9	27°51	28°54	F 5
S 6	20 57 58	13°20'44	7♂24	6°12	15°28	21°17	5° 0	27°24	26°49	22°27	29° 9	15°25	14° 6	27°58	28°51	S 6
S 7	21 1 55	14°18'17	20°35	7°40	16°40	21°56	5° 4	27°20	26°47	22°26	29°11	15°16	14° 3	28° 4	28°48	S 7
M 8	21 5 51	15°15'52	3♂25	9° 7	17°53	22°35	5° 7	27°16	26°44	22°24	29°12	15° 8	14° 0	28°11	28°45	M 8
T 9	21 9 48	16°13'27	15°54	10°32	19° 5	23°14	5°10	27°12	26°42	22°23	29°13	15° 1	13°56	28°18	28°42	T 9
W10	21 13 45	17°11'05	28° 7	11°55	20°18	23°53	5°14	27° 8	26°40	22°21	29°14	14°57	13°53	28°24	28°40	W10
T 11	21 17 41	18° 8'44	10♂ 6	13°16	21°30	24°32	5°16	27° 4	26°37	22°20	29°15	14°55	13°50	28°31	28°37	T 11
F 12	21 21 38	19° 6'24	21°57	14°35	22°43	25°10	5°19	27° 0	26°35	22°19	29°16	14°D55	13°47	28°38	28°34	F 12
S 13	21 25 34	20° 4'06	3♂46	15°53	23°55	25°49	5°22	26°56	26°33	22°17	29°17	14°55	13°44	28°44	28°31	S 13
S 14	21 29 31	21° 1'50	15°37	17° 9	25° 8	26°28	5°24	26°52	26°30	22°16	29°18	14°R56	13°41	28°51	28°28	S 14
M15	21 33 27	21°59'36	27°36	18°23	26°21	27° 6	5°26	26°48	26°28	22°14	29°19	14°55	13°37	28°58	28°25	M15
T 16	21 37 24	22°57'23	9♂47	19°35	27°34	27°45	5°28	26°44	26°26	22°13	29°20	14°52	13°34	29° 4	28°22	T 16
W17	21 41 20	23°55'11	22°14	20°45	28°47	28°23	5°30	26°41	26°23	22°12	29°21	14°47	13°31	29°11	28°19	W17
T 18	21 45 17	24°53'02	4♂59	21°52	29°59	29° 2	5°31	26°37	26°21	22°10	29°22	14°39	13°28	29°18	28°16	T 18
F 19	21 49 14	25°50'53	18° 4	22°58	1♂12	29°40	5°33	26°33	26°18	22° 9	29°22	14°29	13°25	29°24	28°13	F 19
S 20	21 53 10	26°48'47	1♂26	24° 1	2°25	0♂19	5°34	26°30	26°16	22° 8	29°23	14°18	13°22	29°31	28°10	S 20
S 21	21 57 7	27°46'41	15° 6	25° 1	3°39	0°57	5°35	26°26	26°14	22° 7	29°24	14° 6	13°18	29°38	28° 7	S 21
M22	22 1 3	28°44'37	28°58	25°59	4°52	1°36	5°35	26°23	26°11	22° 5	29°25	13°56	13°15	29°44	28° 4	M22
T 23	22 5 0	29°42'35	12♂59	26°54	6° 5	2°14	5°36	26°19	26° 9	22° 4	29°26	13°47	13°12	29°51	28° 1	T 23
W24	22 8 56	0♂40'34	27° 5	27°47	7°18	2°52	5°36	26°16	26° 6	22° 3	29°27	13°41	13° 9	29°57	27°58	W24
T 25	22 12 53	1°38'34	11♂14	28°36	8°31	3°31	5°R36	26°13	26° 4	22° 2	29°27	13°38	13° 6	0♂ 4	27°55	T 25
F 26	22 16 49	2°36'36	25°23	29°22	9°45	4° 9	5°36	26°10	26° 2	22° 1	29°28	13°36	13° 2	0°11	27°52	F 26
S 27	22 20 46	3°34'39	9♂30	0♂ 4	10°58	4°47	5°36	26° 7	25°59	22° 0	29°29	13°36	12°59	0°17	27°49	S 27
S 28	22 24 43	4°32'43	23°35	0°43	12°11	5°25	5°36	26° 4	25°57	21°58	29°30	13°36	12°56	0°24	27°46	S 28
M29	22 28 39	5°30'49	7♂36	1°17	13°25	6° 3	5°35	26° 1	25°55	21°57	29°30	13°35	12°53	0°31	27°43	M29
T 30	22 32 36	6°28'56	21°33	1°47	14°38	6°41	5°34	25°58	25°52	21°56	29°31	13°31	12°50	0°37	27°40	T 30
W31	22 36 32	7♂27'05	5♂23	2♂13	15♂52	7♂19	5♂33	25♂55	25♂50	21♂55	29♂32	13♂24	12♂47	0♂44	27♂37	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	18n 9	24s28	1 s 1	12n54	0n56	22n38	0s31	23n 8	0n53	11n51	1 s19	21s 2	0s23	13s16	0s47	21s 7	0n29	18n15	5s14	22n44	22n34	18n 9	5s52	6n20					
T 2	17 54	25 11	2 14	12 14	0 49	22 35	0 28	23 3	0 53	11 53	1 19	21 3	0 23	13 17	0 47	21 7	0 29	18 15	5 14	22 44	22 34	18 11	5 53	6 20					
W 3	17 39	24 14	3 17	11 34	0 42	22 32	0 25	22 58	0 54	11 54	1 19	21 4	0 24	13 17	0 47	21 7	0 29	18 15	5 14	22 44	22 33	18 14	5 54	6 21					
T 4	17 23	21 45	4 8	10 53	0 34	22 28	0 22	22 53	0 54	11 55	1 20	21 5	0 24	13 18	0 47	21 8	0 29	18 15	5 14	22 43	22 33	18 16	5 55	6 21					
F 5	17 7	18 3	4 44	10 12	0 26	22 24	0 19	22 48	0 55	11 56	1 20	21 6	0 24	13 19	0 47	21 8	0 29	18 15	5 14	22 42	22 32	18 18	5 55	6 21					
S 6	16 51	13 28	5 2	9 32	0 18	22 19	0 17	22 42	0 55	11 57	1 20	21 6	0 24	13 20	0 47	21 8	0 29	18 14	5 14	22 41	22 32	18 21	5 56	6 21					
S 7	16 34	8 23	5 4	8 52	0 10	22 13	0 14	22 36	0 56	11 58	1 20	21 7	0 24	13 21	0 47	21 8	0 29	18 14	5 14	22 40	22 32	18 23	5 57	6 21					
M 8	16 17	3 4	4 50	8 11	0 1	22 7	0 11	22 30	0 56	11 59	1 21	21 8	0 24	13 21	0 47	21 9	0 29	18 14	5 14	22 39	22 31	18 25	5 58	6 21					
T 9	16 0	2n14	4 22	7 31	0s 7	22 0	0 8	22 24	0 56	12 0	1 21	21 9	0 24	13 22	0 47	21 9	0 29	18 14	5 14	22 38	22 31	18 28	5 59	6 21					
W10	15 43	7 21	3 43	6 51	0 16	21 52	0 5	22 18	0 57	12 1	1 21	21 10	0 24	13 23	0 47	21 9	0 29	18 14	5 14	22 38	22 31	18 30	6 0	6 21					
T 11	15 25	12 6	2 55	6 12	0 25	21 44	0 2	22 12	0 57	12 2	1 21	21 11	0 24	13 24	0 47	21 9	0 29	18 14	5 15	22 38	22 30	18 32	6 1	6 21					
F 12	15 7	16 22	2 0	5 33	0 35	21 35	0n 1	22 5	0 58	12 2	1 21	21 12	0 24	13 25	0 47	21 10	0 29	18 14	5 15	22 38	22 30	18 35	6 2	6 21					
S 13	14 49	19 58	0 59	4 54	0 44	21 25	0 3	21 59	0 58	12 3	1 22	21 12	0 24	13 25	0 47	21 10	0 29	18 14	5 15	22 38	22 29	18 37	6 3	6 21					
S 14	14 31	22 46	0n 4	4 16	0 54	21 15	0 6	21 52	0 59	12 4	1 22	21 13	0 24	13 26	0 47	21 10	0 29	18 14	5 15	22 38	22 29	18 39	6 4	6 21					
M15	14 12	24 35	1 7	3 38	1 3	21 4	0 9	21 45	0 59	12 4	1 22	21 14	0 24	13 27	0 47	21 10	0 29	18 14	5 15	22 38	22 29	18 41	6 5	6 21					
T 16	13 53	25 15	2 8	3 1	1 13	20 53	0 12	21 37	1 0	12 4	1 22	21 15	0 24	13 28	0 47	21 11	0 29	18 14	5 15	22 37	22 28	18 44	6 6	6 21					
W17	13 34	24 41	3 5	2 25	1 23	20 41	0 14	21 30	1 0	12 5	1 23	21 16	0 25	13 29	0 47	21 11	0 29	18 14	5 15	22 37	22 28	18 46	6 7	6 21					
T 18	13 15	22 49	3 53	1 49	1 32	20 28	0 17	21 23	1 1	12 5	1 23	21 16	0 25	13 30	0 47	21 11	0 29	18 14	5 15	22 36	22 27	18 48	6 8	6 21					
F 19	12 56	19 44	4 31	1 14	1 42	20 15	0 20	21 15	1 1	12 5	1 23	21 17	0 25	13 30	0 47	21 11	0 29	18 14	5 15	22 35	22 27	18 50	6 9	6 21					
S 20	12 36	15 33	4 54	0 40	1 52	20 1	0 22	21 7	1 1	12 6	1 23	21 18	0 25	13 31	0 47	21 11	0 29	18 14	5 15	22 33	22 27	18 53	6 10	6 21					
S 21	12 16	10 31	5 1	0 7	2 2	19 47	0 25	20 59	1 2	12 6	1 23	21 19	0 25	13 32	0 47	21 12	0 29	18 14	5 15	22 32	22 26	18 55	6 11	6 21					
M22	11 56	4 52	4 51	0s25	2 12	19 32	0 27	20 51	1 2	12 6	1 24	21 19	0 25	13 33	0 47	21 12	0 29	18 14	5 15	22 31	22 26	18 57	6 12	6 21					
T 23	11 36	1s 5	4 24	0 56	2 22	19 16	0 30	20 43	1 3	12 6	1 24	21 20	0 25	13 34	0 47	21 12	0 29	18 14	5 15	22 30	22 26	18 59	6 14	6 21					
W24	11 15	7 2	3 40	1 26	2 31	19 0	0 32	20 35	1 3	12 6	1 24	21 21	0 25	13 34	0 47	21 12	0 28	18 14	5 15	22 29	22 25	19 2	6 15	6 21					
T 25	10 55	12 39	2 42	1 54	2 41	18 44	0 35	20 26	1 4	12 5	1 24	21 21	0 25	13 35	0 47	21 13	0 28	18 14	5 15	22 29	22 25	19 4	6 16	6 21					
F 26	10 34	17 36	1 35	2 21	2 50	18 27	0 37	20 18	1 4	12 5	1 25	21 22	0 25	13 36	0 47	21 13	0 28	18 14	5 15	22 29	22 24	19 6	6 17	6 20					
S 27	10 13	21 33	0 22	2 46	2 59	18 9	0 40	20 9	1 4	12 5	1 25	21 23	0 25	13 37	0 47	21 13	0 28	18 14	5 15	22 28	22 24	19 8	6 18	6 20					
S 28	9 52	24 12	0s53	3 10	3 8	17 51	0 42	20 0	1 5	12 5	1 25	21 23	0 25	13 38	0 47	21 13	0 28	18 14	5 15	22 28	22 24	19 11	6 19	6 20					
M29	9 30	25 19	2 3	3 31	3 17	17 32	0 44	19 51	1 5	12 4	1 25	21 24	0 25	13 38	0 47	21 13	0 28	18 14	5 15	22 28	22 23	19 13	6 20	6 20					
T 30	9 9	24 49	3 6	3 51	3 25	17 13	0 46	19 42	1 6	12 4	1 25	21 24	0 25	13 39	0 47	21 14	0 28	18 13	5 15	22 28	22 23	19 15	6 21	6 20					
W31	8n47	22s48	3s57	4s 8	3s33	16n53	0n49	19n32	1n 6	12n 3	1s26	21s25	0s25	13s40	0s47	21s14	0n28	18n13	5s16	22n27	22n22	19n17	6s22	6n20					

ASTRODIENST EPHEMERIS for the year 1667

geocentric

SEPTEMBER 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 40 29	8 ^m 25'15	19 ^m 5 5	2 ^m 34	17 ^m 5 5	7 ^m 57	5°R32	25°R53	25°R48	21°R54	29 ^m 32	13°R14	12 ^m 43	0 ^m 51	27°R34	T 1
F 2	22 44 25	9°23'27	2 ^m 34	2°50	18°19	8°35	5 ^m 30	25°350	25°445	21°353	29°33	13 ^m 3	12°40	0°57	27°31	F 2
S 3	22 48 22	10°21'41	15°49	3° 0	19°33	9°13	5°29	25°47	25°43	21°52	29°34	12°50	12°37	1° 4	27°28	S 3
S 4	22 52 18	11°19'56	28°47	3°R 5	20°46	9°51	5°27	25°45	25°41	21°51	29°34	12°37	12°34	1°11	27°25	S 4
M 5	22 56 15	12°18'13	11 ^m 28	3° 3	22° 0	10°29	5°25	25°43	25°38	21°51	29°35	12°26	12°31	1°17	27°22	M 5
T 6	23 0 11	13°16'33	23°53	2°55	23°14	11° 7	5°23	25°40	25°36	21°50	29°35	12°17	12°28	1°24	27°20	T 6
W 7	23 4 8	14°14'54	6 ^m 8	2°41	24°28	11°45	5°20	25°38	25°34	21°49	29°36	12°10	12°24	1°31	27°17	W 7
T 8	23 8 5	15°13'17	18° 0	2°20	25°42	12°22	5°18	25°36	25°32	21°48	29°36	12° 6	12°21	1°37	27°14	T 8
F 9	23 12 1	16°11'43	29° 0	1°52	26°56	13° 0	5°15	25°34	25°30	21°47	29°37	12° 5	12°18	1°44	27°11	F 9
S 10	23 15 58	17°10'10	11 ^m 38	1°17	28°10	13°38	5°12	25°32	25°27	21°46	29°37	12° 4	12°15	1°50	27° 8	S 10
S 11	23 19 54	18° 8'40	23°29	0°36	29°24	14°16	5° 9	25°30	25°25	21°46	29°38	12° 4	12°12	1°57	27° 6	S 11
M12	23 23 51	19° 7'12	5 ^m 28	29 ^m 49	0 ^m 38	14°53	5° 5	25°28	25°23	21°45	29°38	12° 3	12° 8	2° 4	27° 3	M12
T 13	23 27 47	20° 5'47	17°41	28°57	1°52	15°31	5° 2	25°27	25°21	21°44	29°39	12° 1	12° 5	2°10	27° 0	T 13
W14	23 31 44	21° 4'23	0 ^m 13	27°59	3° 6	16° 8	4°58	25°25	25°19	21°44	29°39	11°56	12° 2	2°17	26°58	W14
T 15	23 35 40	22° 3'02	13° 6	26°58	4°20	16°46	4°54	25°24	25°17	21°43	29°39	11°48	11°59	2°24	26°55	T 15
F 16	23 39 37	23° 1'42	26°23	25°54	5°34	17°24	4°50	25°22	25°15	21°43	29°40	11°38	11°56	2°30	26°52	F 16
S 17	23 43 34	24° 0'25	10 ^m 4	24°49	6°49	18° 1	4°45	25°21	25°13	21°42	29°40	11°27	11°53	2°37	26°50	S 17
S 18	23 47 30	24°59'10	24° 5	23°45	8° 3	18°38	4°41	25°20	25°11	21°41	29°40	11°15	11°49	2°44	26°47	S 18
M19	23 51 27	25°57'56	8 ^m 23	22°42	9°17	19°16	4°36	25°19	25° 9	21°41	29°40	11° 4	11°46	2°50	26°45	M19
T 20	23 55 23	26°56'45	22°50	21°44	10°32	19°53	4°31	25°18	25° 7	21°41	29°41	10°55	11°43	2°57	26°42	T 20
W21	23 59 20	27°55'36	7 ^m 12	20°50	11°46	20°31	4°26	25°17	25° 5	21°40	29°41	10°49	11°40	3° 4	26°40	W21
T 22	0 3 16	28°54'28	21°50	20° 3	13° 1	21° 8	4°21	25°16	25° 3	21°40	29°41	10°45	11°37	3°10	26°37	T 22
F 23	0 7 13	29°53'22	6 ^m 13	19°24	14°15	21°45	4°16	25°15	25° 1	21°39	29°41	10°D44	11°33	3°17	26°35	F 23
S 24	0 11 9	0 ^m 52'18	20°25	18°54	15°30	22°22	4°10	25°15	24°59	21°39	29°41	10°44	11°30	3°24	26°33	S 24
S 25	0 15 6	1°51'16	4 ^m 28	18°33	16°44	22°59	4° 4	25°14	24°58	21°39	29°42	10°R44	11°27	3°30	26°30	S 25
M26	0 19 3	2°50'16	18°19	18°D23	17°59	23°37	3°59	25°14	24°56	21°38	29°42	10°43	11°24	3°37	26°28	M26
T 27	0 22 59	3°49'17	1 ^m 59	18°23	19°13	24°14	3°53	25°14	24°54	21°38	29°42	10°40	11°21	3°43	26°26	T 27
W28	0 26 56	4°48'20	15°27	18°34	20°28	24°51	3°46	25°13	24°53	21°38	29°42	10°34	11°18	3°50	26°24	W28
T 29	0 30 52	5°47'25	28°45	18°54	21°43	25°28	3°40	25°13	24°51	21°38	29°42	10°26	11°14	3°57	26°22	T 29
F 30	0 34 49	6 ^m 46'31	11 ^m 51	19 ^m 24	22 ^m 57	26°5 5	3°34	25°D13	24 ^m 49	21°38	29°R42	10 ^m 16	11 ^m 11	4 ^m 3	26 ^m 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
T 1	8n26	19s28	4s34	4s23	3s40	16n33	0n51	19n23	1n 7	12n 2	1s26	21s26	0s25	13s41	0s47	21s14	0n28	18n13	5s16	22n26	22n22	19n20	6s23	6n20	
F 2	8 4	15 10	4 55	4 36	3 47	16 12	0 53	19 13	1 7	12 2	1 26	21 26	0 25	13 42	0 47	21 14	0 28	18 13	5 16	22 24	22 21	19 22	6 24	6 20	
S 3	7 42	10 12	5 0	4 46	3 53	15 51	0 55	19 4	1 7	12 1	1 26	21 27	0 26	13 42	0 47	21 14	0 28	18 13	5 16	22 23	22 21	19 24	6 26	6 19	
S 4	7 20	4 54	4 49	4 52	3 59	15 30	0 57	18 54	1 8	12 0	1 26	21 27	0 26	13 43	0 47	21 14	0 28	18 13	5 16	22 21	22 21	19 26	6 27	6 19	
M 5	6 57	0n31	4 23	4 56	4 3	15 8	0 59	18 44	1 8	11 59	1 27	21 28	0 26	13 44	0 47	21 15	0 28	18 13	5 16	22 20	22 20	19 28	6 28	6 19	
T 6	6 35	5 47	3 46	4 56	4 6	14 45	1 1	18 34	1 9	11 58	1 27	21 28	0 26	13 45	0 47	21 15	0 28	18 13	5 16	22 18	22 20	19 31	6 29	6 19	
W 7	6 13	10 45	2 58	4 52	4 9	14 22	1 3	18 24	1 9	11 57	1 27	21 29	0 26	13 45	0 47	21 15	0 28	18 13	5 16	22 18	22 19	19 33	6 30	6 19	
T 8	5 50	15 14	2 4	4 45	4 10	13 59	1 4	18 14	1 9	11 56	1 27	21 29	0 26	13 46	0 47	21 15	0 28	18 13	5 16	22 17	22 19	19 35	6 31	6 19	
F 9	5 27	19 6	1 4	4 33	4 9	13 36	1 6	18 3	1 10	11 55	1 27	21 29	0 26	13 47	0 47	21 15	0 28	18 13	5 16	22 17	22 19	19 37	6 32	6 18	
S 10	5 5	22 11	0 2	4 18	4 7	13 12	1 8	17 53	1 10	11 54	1 28	21 30	0 26	13 48	0 47	21 15	0 28	18 13	5 16	22 17	22 18	19 39	6 33	6 18	
S 11	4 42	24 19	1n 0	3 58	4 4	12 47	1 9	17 42	1 11	11 53	1 28	21 30	0 26	13 48	0 47	21 16	0 28	18 13	5 16	22 17	22 18	19 41	6 34	6 18	
M12	4 19	25 23	2 1	3 34	3 58	12 22	1 11	17 32	1 11	11 52	1 28	21 31	0 26	13 49	0 47	21 16	0 28	18 13	5 16	22 17	22 17	19 44	6 36	6 18	
T 13	3 56	25 14	2 57	3 6	3 51	11 57	1 12	17 21	1 11	11 50	1 28	21 31	0 26	13 50	0 47	21 16	0 28	18 13	5 16	22 16	22 17	19 46	6 37	6 18	
W14	3 33	23 49	3 46	2 35	3 42	11 32	1 14	17 10	1 12	11 49	1 28	21 31	0 26	13 50	0 47	21 16	0 28	18 13	5 16	22 16	22 17	19 48	6 38	6 17	
T 15	3 10	21 9	4 25	2 1	3 30	11 6	1 15	16 59	1 12	11 47	1 28	21 32	0 26	13 51	0 47	21 16	0 28	18 12	5 17	22 15	22 16	19 50	6 39	6 17	
F 16	2 46	17 18	4 51	1 23	3 17	10 40	1 16	16 48	1 13	11 46	1 29	21 32	0 26	13 52	0 47	21 16	0 28	18 12	5 17	22 13	22 16	19 52	6 40	6 17	
S 17	2 23	12 27	5 1	0 44	3 2	10 14	1 17	16 37	1 13	11 44	1 29	21 32	0 26	13 52	0 47	21 16	0 28	18 12	5 17	22 12	22 15	19 54	6 41	6 17	
S 18	2 0	6 51	4 54	0 3	2 46	9 47	1 19	16 26	1 13	11 43	1 29	21 32	0 26	13 53	0 47	21 16	0 28	18 12	5 17	22 10	22 15	19 57	6 42	6 17	
M19	1 36	0 47	4 28	0n38	2 28	9 20	1 20	16 14	1 14	11 41	1 29	21 33	0 26	13 54	0 47	21 16	0 28	18 12	5 17	22 9	22 14	19 59	6 43	6 16	
T 20	1 13	5s25	3 45	1 19	2 9	8 53	1 21	16 3	1 14	11 39	1 29	21 33	0 26	13 54	0 47	21 17	0 28	18 12	5 17	22 7	22 14	20 1	6 44	6 16	
W21	0 50	11 21	2 47	1 58	1 49	8 25	1 22	15 52	1 15	11 37	1 29	21 33	0 26	13 55	0 47	21 17	0 28	18 12	5 17	22 6	22 14	20 3	6 45	6 16	
T 22	0 26	16 40	1 39	2 35	1 29	7 57	1 23	15 40	1 15	11 35	1 30	21 33	0 26	13 56	0 47	21 17	0 28	18 12	5 17	22 6	22 13	20 5	6 46	6 15	
F 23	0 3	20 59	0 24	3 9	1 9	7 29	1 23	15 28	1 15	11 33	1 30	21 33	0 26	13 56	0 47	21 17	0 28	18 12	5 17	22 6	22 13	20 7	6 47	6 15	
S 24	0s21	23 59	0s51	3 39	0 49	7 1	1 24	15 17	1 16	11 31	1 30	21 34	0 27	13 57	0 47	21 17	0 28	18 12	5 17	22 6	22 12	20 9	6 48	6 15	
S 25	0 44	25 27	2 3	4 5	0 30	6 33	1 25	15 5	1 16	11 29	1 30	21 34	0 27	13 57	0 46	21 17	0 28	18 12	5 17	22 6	22 12	20 12	6 49	6 15	
M26	1 8	25 18	3 6	4 26	0 11	6 4	1 25	14 53	1 17	11 27	1 30	21 34	0 27	13 58	0 46	21 17	0 28	18 12	5 17	22 6	22 11	20 14	6 51	6 14	
T 27	1 31	23 37	3 57	4 42	0n 7	5 36	1 26	14 41	1 17	11 25	1 30	21 34	0 27	13 58	0 46	21 17	0 28	18 12	5 17	22 5	22 11	20 16	6 52	6 14	
W28	1 55	20 36	4 35	4 54	0 24	5 7	1 27	14 29	1 17	11 23	1 30	21 34	0 27	13 59	0 46	21 17	0 28	18 12	5 17	22 4	22 10	20 18	6 53	6 14	
T 29	2 18	16 34	4 57	5 0	0 39	4 37	1 27	14 17	1 18	11 21	1 30	21 34	0 27	13 59	0 46	21 17	0 28	18 11	5 17	22 3	22 10	20 20	6 54	6 13	
F 30	2s42	11s48	5s 3	5n 1	0m53	4n 8	1n27	14n 4	1n18	11n19	1s30	21s34	0s27	14s 0	0s46	21s17	0n28	18n11	5s18	22n 2	22n10	20n22	6s54	6n13	

ASTRODIENST EPHEMERIS for the year 1667
geocentric

OCTOBER 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 45	7♌45'39	24♏45	20♍4	24♍12	26♌42	3°R27	25♌13	24°R48	21°R38	29°R42	10°R 5	11♏8	4♏10	26°R18	S 1
S 2	0 42 42	8°44'50	7♏25	20°52	25°27	27°19	3♌21	25°13	24°46	21°38	29°42	9♏54	11° 5	4°17	26°16	S 2
M 3	0 46 38	9°44'02	19°52	21°48	26°42	27°55	3°14	25°14	24°45	21°38	29°42	9°44	11° 2	4°23	26°14	M 3
T 4	0 50 35	10°43'17	2♏7	22°52	27°56	28°32	3° 7	25°14	24°43	21°D38	29°42	9°35	10°59	4°30	26°12	T 4
W 5	0 54 32	11°42'34	14°10	24° 2	29°11	29° 9	3° 0	25°15	24°42	21°38	29°41	9°30	10°55	4°37	26°10	W 5
T 6	0 58 28	12°41'53	26° 4	25°17	0♌26	29°46	2°53	25°15	24°41	21°38	29°41	9°27	10°52	4°43	26° 8	T 6
F 7	1 2 25	13°41'14	7♏52	26°38	1°41	0♍23	2°45	25°16	24°39	21°38	29°41	9°D25	10°49	4°50	26° 7	F 7
S 8	1 6 21	14°40'38	19°39	28° 2	2°56	0°59	2°38	25°17	24°38	21°38	29°41	9°26	10°46	4°57	26° 5	S 8
S 9	1 10 18	15°40'04	1♌28	29°31	4°11	1°36	2°31	25°18	24°37	21°38	29°41	9°27	10°43	5° 3	26° 3	S 9
M10	1 14 14	16°39'32	13°26	1♌2	5°26	2°13	2°23	25°18	24°36	21°38	29°41	9°R28	10°39	5°10	26° 2	M10
T 11	1 18 11	17°39'03	25°38	2°36	6°41	2°49	2°16	25°20	24°34	21°38	29°40	9°27	10°36	5°16	26° 0	T 11
W12	1 22 7	18°38'35	8♌8	4°12	7°56	3°26	2° 8	25°21	24°33	21°39	29°40	9°25	10°33	5°23	25°59	W12
T 13	1 26 4	19°38'11	21° 1	5°50	9°11	4° 2	2° 0	25°22	24°32	21°39	29°40	9°21	10°30	5°30	25°57	T 13
F 14	1 30 1	20°37'48	4♍21	7°29	10°26	4°39	1°52	25°23	24°31	21°39	29°40	9°15	10°27	5°36	25°56	F 14
S 15	1 33 57	21°37'28	18° 7	9° 8	11°41	5°15	1°44	25°25	24°30	21°40	29°39	9° 8	10°24	5°43	25°55	S 15
S 16	1 37 54	22°37'09	2♌20	10°49	12°56	5°51	1°36	25°26	24°29	21°40	29°39	9° 0	10°20	5°50	25°53	S 16
M17	1 41 50	23°36'53	16°54	12°30	14°11	6°28	1°28	25°28	24°28	21°41	29°38	8°53	10°17	5°56	25°52	M17
T 18	1 45 47	24°36'39	1♌43	14°12	15°26	7° 4	1°20	25°30	24°28	21°41	29°38	8°47	10°14	6° 3	25°51	T 18
W19	1 49 43	25°36'27	16°38	15°53	16°41	7°40	1°12	25°32	24°27	21°42	29°38	8°43	10°11	6°10	25°50	W19
T 20	1 53 40	26°36'17	1♌32	17°35	17°57	8°16	1° 4	25°34	24°26	21°42	29°37	8°41	10° 8	6°16	25°49	T 20
F 21	1 57 36	27°36'09	16°16	19°16	19°12	8°52	0°56	25°36	24°25	21°43	29°37	8°D41	10° 5	6°23	25°48	F 21
S 22	2 1 33	28°36'02	0♌46	20°58	20°27	9°29	0°48	25°38	24°25	21°43	29°36	8°42	10° 1	6°30	25°47	S 22
S 23	2 5 30	29°35'57	14°58	22°39	21°42	10° 5	0°40	25°40	24°24	21°44	29°36	8°44	9°58	6°36	25°46	S 23
M24	2 9 26	0♌35'54	28°51	24°19	22°57	10°41	0°32	25°43	24°24	21°45	29°35	8°R44	9°55	6°43	25°45	M24
T 25	2 13 23	1°35'52	12°26	26° 0	24°13	11°17	0°24	25°45	24°23	21°45	29°35	8°44	9°52	6°50	25°45	T 25
W26	2 17 19	2°35'52	25°43	27°40	25°28	11°52	0°15	25°48	24°23	21°46	29°34	8°42	9°49	6°56	25°44	W26
T 27	2 21 16	3°35'53	8♌44	29°20	26°43	12°28	0° 7	25°50	24°22	21°47	29°34	8°38	9°45	7° 3	25°43	T 27
F 28	2 25 12	4°35'57	21°31	0♌59	27°58	13° 4	29°Y59	25°53	24°22	21°48	29°33	8°33	9°42	7° 9	25°43	F 28
S 29	2 29 9	5°36'01	4°Y 5	2°38	29°14	13°40	29°51	25°56	24°22	21°48	29°32	8°27	9°39	7°16	25°42	S 29
S 30	2 33 5	6°36'08	16°27	4°16	0♌29	14°16	29°43	25°59	24°21	21°49	29°32	8°21	9°36	7°23	25°42	S 30
M31	2 37 2	7♌36'16	28°Y40	5♌54	1♌44	14°51	29°Y35	26°3 2	24°21	21°50	29°31	8°I16	9°I33	7°I29	25°41	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	3s 5	6s35	4s54	4n57	1n 6	3n39	1n28	13n52	1n19	11n16	1s31	21s34	0s27	14s 0	0s46	21s17
S 2	3 28	1 11	4 30	4 48	1 17	3 9	1 28	13 40	1 19	11 14	1 31	21 34	0 27	14 1	0 46	21 17
M 3	3 52	4n11	3 53	4 35	1 27	2 40	1 28	13 27	1 19	11 12	1 31	21 34	0 27	14 1	0 46	21 17
T 4	4 15	9 19	3 6	4 17	1 35	2 10	1 28	13 15	1 20	11 9	1 31	21 34	0 27	14 2	0 46	21 17
W 5	4 38	14 2	2 11	3 56	1 42	1 40	1 28	13 2	1 20	11 7	1 31	21 34	0 27	14 2	0 46	21 17
T 6	5 2	18 9	1 11	3 31	1 48	1 10	1 28	12 50	1 20	11 4	1 31	21 34	0 27	14 3	0 46	21 17
F 7	5 25	21 31	0 8	3 4	1 52	0 40	1 28	12 37	1 21	11 2	1 31	21 34	0 27	14 3	0 46	21 17
S 8	5 48	23 59	0n55	2 33	1 56	0 10	1 28	12 24	1 21	10 59	1 31	21 34	0 27	14 4	0 46	21 17
S 9	6 11	25 24	1 56	2 0	1 58	0s20	1 27	12 12	1 22	10 57	1 31	21 34	0 27	14 4	0 46	21 17
M10	6 34	25 40	2 53	1 25	1 59	0 50	1 27	11 59	1 22	10 54	1 31	21 34	0 27	14 4	0 46	21 17
T 11	6 56	24 42	3 43	0 48	2 0	1 20	1 27	11 46	1 22	10 51	1 31	21 33	0 27	14 5	0 46	21 17
W12	7 19	22 31	4 24	0 9	1 59	1 50	1 26	11 33	1 23	10 49	1 31	21 33	0 27	14 5	0 46	21 17
T 13	7 42	19 8	4 53	0s31	1 58	2 20	1 26	11 20	1 23	10 46	1 31	21 33	0 27	14 5	0 46	21 17
F 14	8 4	14 42	5 7	1 11	1 56	2 50	1 25	11 7	1 23	10 43	1 31	21 33	0 27	14 6	0 46	21 17
S 15	8 27	9 22	5 4	1 53	1 54	3 20	1 25	10 54	1 24	10 41	1 31	21 33	0 27	14 6	0 46	21 17
S 16	8 49	3 24	4 43	2 35	1 51	3 50	1 24	10 41	1 24	10 38	1 31	21 32	0 27	14 6	0 46	21 17
M17	9 11	2s54	4 3	3 18	1 47	4 20	1 23	10 28	1 24	10 35	1 31	21 32	0 27	14 7	0 46	21 17
T 18	9 33	9 10	3 7	4 1	1 43	4 49	1 22	10 15	1 25	10 32	1 31	21 32	0 27	14 7	0 46	21 17
W19	9 55	14 58	1 57	4 44	1 39	5 19	1 21	10 2	1 25	10 30	1 31	21 31	0 27	14 7	0 46	21 17
T 20	10 17	19 52	0 39	5 28	1 34	5 49	1 20	9 48	1 26	10 27	1 31	21 31	0 27	14 7	0 46	21 17
F 21	10 38	23 27	0s41	6 11	1 29	6 18	1 19	9 35	1 26	10 24	1 31	21 31	0 27	14 7	0 46	21 17
S 22	11 0	25 26	1 57	6 54	1 24	6 48	1 18	9 22	1 26	10 21	1 31	21 30	0 27	14 8	0 46	21 17
S 23	11 21	25 42	3 5	7 37	1 18	7 17	1 17	9 8	1 27	10 18	1 31	21 30	0 28	14 8	0 46	21 17
M24	11 42	24 20	3 59	8 20	1 12	7 46	1 16	8 55	1 27	10 16	1 31	21 30	0 28	14 8	0 46	21 17
T 25	12 3	21 34	4 40	9 2	1 6	8 15	1 15	8 42	1 27	10 13	1 31	21 29	0 28	14 8	0 46	21 17
W26	12 24	17 44	5 4	9 44	1 0	8 43	1 13	8 28	1 28	10 10	1 31	21 29	0 28	14 8	0 46	21 17
T 27	12 44	13 7	5 12	10 25	0 54	9 12	1 12	8 15	1 28	10 7	1 31	21 28	0 28	14 8	0 46	21 17
F 28	13 5	8 1	5 4	11 6	0 47	9 40	1 11	8 2	1 28	10 5	1 30	21 28	0 28	14 8	0 45	21 16
S 29	13 25	2 41	4 41	11 46	0 41	10 8	1 9	7 48	1 29	10 2	1 30	21 27	0 28	14 8	0 45	21 16
S 30	13 45	2n42	4 6	12 26	0 34	10 36	1 8	7 35	1 29	9 59	1 30	21 27	0 28	14 8	0 45	21 16
M31	14s 4	7n54	3s20	13s 5	0n28	11s 4	1n 6	7n21	1n30	9n56	1s30	21s26	0s28	14s 9	0s45	21s16

Julian Day Number = 2330192.5, Delta T = 31.20 sec
Ecliptic obliquity = 23°29'01, Nutation = - 0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°06'09, Lahiri = 19°13'10Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1667
geocentric

NOVEMBER 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 40 58	8♉36°26	10♈43	7♉32	3♉0	15♉27	29°R27	26♈5	24°R21	21♈51	29°R30	8°R12	9♉30	7♉36	25°R41	T 1
W 2	2 44 55	9°36'38	22°38	9°9	4°15	16°2	29°Y19	26°8	24°≈21	21°52	29°II30	8°II9	9°26	7°43	25°≈41	W 2
T 3	2 48 52	10°36'51	4♉28	10°46	5°30	16°38	29°11	26°11	24°D21	21°53	29°29	8°D8	9°23	7°49	25°41	T 3
F 4	2 52 48	11°37'07	16°15	12°22	6°46	17°13	29°4	26°15	24°21	21°54	29°28	8°8	9°20	7°56	25°41	F 4
S 5	2 56 45	12°37'25	28°2	13°58	8°1	17°49	28°56	26°18	24°21	21°55	29°27	8°9	9°17	8°3	25°D40	S 5
S 6	3 0 41	13°37'44	9♉52	15°34	9°16	18°24	28°48	26°22	24°21	21°56	29°27	8°11	9°14	8°9	25°40	S 6
M 7	3 4 38	14°38'05	21°50	17°10	10°32	18°59	28°41	26°25	24°21	21°57	29°26	8°13	9°11	8°16	25°41	M 7
T 8	3 8 34	15°38'29	4♉0	18°45	11°47	19°35	28°33	26°29	24°21	21°58	29°25	8°14	9°7	8°23	25°41	T 8
W 9	3 12 31	16°38'54	16°27	20°19	13°2	20°10	28°26	26°33	24°22	22°0	29°24	8°R15	9°4	8°29	25°41	W 9
T 10	3 16 28	17°39'21	29°15	21°54	14°18	20°45	28°19	26°37	24°22	22°1	29°23	8°14	9°1	8°36	25°41	T 10
F 11	3 20 24	18°39'50	12♉28	23°28	15°33	21°20	28°11	26°41	24°22	22°2	29°22	8°13	8°58	8°42	25°41	F 11
S 12	3 24 21	19°40'21	26°9	25°2	16°49	21°55	28°4	26°45	24°23	22°3	29°22	8°11	8°55	8°49	25°42	S 12
S 13	3 28 17	20°40'53	10♉17	26°36	18°4	22°30	27°57	26°49	24°23	22°5	29°21	8°8	8°51	8°56	25°42	S 13
M14	3 32 14	21°41'28	24°52	28°9	19°20	23°5	27°51	26°53	24°24	22°6	29°20	8°6	8°48	9°2	25°43	M14
T 15	3 36 10	22°42'04	9♉46	29°43	20°35	23°40	27°44	26°57	24°24	22°7	29°19	8°4	8°45	9°9	25°43	T 15
W16	3 40 7	23°42'41	24°54	1♉16	21°50	24°15	27°37	27°1	24°25	22°9	29°18	8°3	8°42	9°16	25°44	W16
T 17	3 44 3	24°43'21	10♉6	2°49	23°6	24°49	27°31	27°6	24°25	22°10	29°17	8°D3	8°39	9°22	25°45	T 17
F 18	3 48 0	25°44'01	25°11	4°21	24°21	25°24	27°25	27°10	24°26	22°11	29°16	8°3	8°36	9°29	25°45	F 18
S 19	3 51 57	26°44'43	10♈2	5°54	25°37	25°59	27°18	27°15	24°27	22°13	29°15	8°4	8°32	9°36	25°46	S 19
S 20	3 55 53	27°45'26	24°32	7°26	26°52	26°33	27°12	27°20	24°28	22°14	29°14	8°5	8°29	9°42	25°47	S 20
M21	3 59 50	28°46'10	8≈38	8°59	28°8	27°8	27°7	27°24	24°29	22°16	29°13	8°6	8°26	9°49	25°48	M21
T 22	4 3 46	29°46'55	22°19	10°31	29°23	27°42	27°1	27°29	24°30	22°17	29°12	8°6	8°23	9°56	25°49	T 22
W23	4 7 43	0♉47°41	5♈36	12°2	0♉39	28°16	26°55	27°34	24°31	22°19	29°11	8°R6	8°20	10°2	25°50	W23
T 24	4 11 39	1°48'28	18°32	13°34	1°54	28°50	26°50	27°39	24°32	22°21	29°10	8°6	8°17	10°9	25°51	T 24
F 25	4 15 36	2°49'16	1°Y8	15°6	3°10	29°25	26°45	27°44	24°33	22°22	29°9	8°5	8°13	10°16	25°52	F 25
S 26	4 19 32	3°50'05	13°29	16°37	4°25	29°59	26°40	27°49	24°34	22°24	29°8	8°5	8°10	10°22	25°53	S 26
S 27	4 23 29	4°50'55	25°39	18°8	5°41	0♉33	26°35	27°54	24°35	22°25	29°7	8°4	8°7	10°29	25°55	S 27
M28	4 27 26	5°51'46	7♈39	19°39	6°56	1°7	26°30	27°59	24°36	22°27	29°6	8°4	8°4	10°35	25°56	M28
T 29	4 31 22	6°52'38	19°32	21°9	8°12	1°41	26°26	28°5	24°37	22°29	29°5	8°4	8°1	10°42	25°58	T 29
W30	4 35 19	7♉53°31	1♉22	22♉40	9♉27	2♉14	26°Y22	28♈10	24≈39	22♈31	29°II3	8°D4	7♉57	10♉49	25≈59	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	decl	lat
T 1	14s24	12n46	2s25	13s43	0n21	11s31	1n 5	7n 8	1n30	9n54	1s30	21s26	0s28	14s 9	0s45	21s16	0n27	18n 9	5s20	21n43	21n55	21n27	7s19	6n 1			
W 2	14 43	17 6	1 24	14 21	0 14	11 58	1 3	6 54	1 30	9 51	1 30	21 25	0 28	14 9	0 45	21 16	0 27	18 9	5 20	21 42	21 54	21 29	7 19	6 1			
T 3	15 2	20 45	0 20	14 58	0 8	12 25	1 1	6 41	1 31	9 48	1 30	21 24	0 28	14 9	0 45	21 16	0 27	18 9	5 20	21 42	21 54	21 31	7 19	6 0			
F 4	15 21	23 31	0n45	15 34	0 1	12 52	1 0	6 27	1 31	9 46	1 30	21 24	0 28	14 8	0 45	21 16	0 27	18 9	5 20	21 42	21 53	21 33	7 20	6 0			
S 5	15 39	25 16	1 48	16 9	0s 6	13 18	0 58	6 14	1 31	9 43	1 29	21 23	0 28	14 8	0 45	21 15	0 27	18 9	5 20	21 42	21 53	21 35	7 20	6 0			
S 6	15 58	25 53	2 46	16 44	0 13	13 44	0 56	6 0	1 32	9 41	1 29	21 23	0 28	14 8	0 45	21 15	0 27	18 9	5 20	21 43	21 52	21 37	7 21	5 59			
M 7	16 15	25 18	3 38	17 18	0 19	14 9	0 54	5 46	1 32	9 38	1 29	21 22	0 28	14 8	0 45	21 15	0 27	18 9	5 20	21 43	21 52	21 39	7 21	5 59			
T 8	16 33	23 31	4 22	17 51	0 26	14 34	0 52	5 33	1 32	9 36	1 29	21 21	0 28	14 8	0 45	21 15	0 27	18 9	5 20	21 43	21 52	21 41	7 21	5 58			
W 9	16 51	20 36	4 54	18 23	0 32	14 59	0 50	5 19	1 33	9 33	1 29	21 21	0 28	14 8	0 45	21 15	0 27	18 9	5 20	21 43	21 51	21 42	7 22	5 58			
T 10	17 8	16 38	5 12	18 54	0 39	15 23	0 48	5 6	1 33	9 31	1 29	21 20	0 28	14 8	0 45	21 15	0 27	18 9	5 20	21 43	21 51	21 44	7 22	5 57			
F 11	17 25	11 45	5 15	19 24	0 45	15 47	0 46	4 52	1 33	9 28	1 28	21 19	0 28	14 8	0 45	21 14	0 27	18 9	5 20	21 43	21 50	21 46	7 22	5 57			
S 12	17 41	6 8	5 1	19 53	0 51	16 11	0 44	4 39	1 34	9 26	1 28	21 18	0 28	14 8	0 45	21 14	0 26	18 9	5 20	21 43	21 50	21 48	7 23	5 57			
S 13	17 57	0 2	4 28	20 22	0 57	16 34	0 42	4 25	1 34	9 24	1 28	21 18	0 28	14 7	0 45	21 14	0 26	18 9	5 20	21 42	21 49	21 50	7 23	5 56			
M14	18 13	6s17	3 37	20 49	1 3	16 57	0 40	4 12	1 34	9 22	1 28	21 17	0 28	14 7	0 45	21 14	0 26	18 9	5 20	21 42	21 49	21 52	7 23	5 56			
T 15	18 29	12 23	2 30	21 15	1 9	17 19	0 38	3 58	1 35	9 19	1 28	21 16	0 28	14 7	0 45	21 14	0 26	18 9	5 20	21 42	21 48	21 54	7 23	5 55			
W16	18 44	17 52	1 12	21 41	1 15	17 41	0 36	3 45	1 35	9 17	1 27	21 15	0 28	14 7	0 45	21 14	0 26	18 9	5 20	21 41	21 48	21 56	7 24	5 55			
T 17	18 59	22 11	0s11	22 5	1 21	18 3	0 33	3 31	1 35	9 15	1 27	21 14	0 28	14 6	0 45	21 13	0 26	18 9	5 20	21 41	21 47	21 58	7 24	5 55			
F 18	19 14	24 57	1 34	22 28	1 26	18 23	0 31	3 18	1 36	9 13	1 27	21 14	0 28	14 6	0 45	21 13	0 26	18 9	5 20	21 41	21 47	22 0	7 24	5 54			
S 19	19 28	25 54	2 48	22 50	1 31	18 44	0 29	3 4	1 36	9 11	1 27	21 13	0 28	14 6	0 45	21 13	0 26	18 9	5 20	21 42	21 46	22 1	7 24	5 54			
S 20	19 42	25 2	3 51	23 11	1 37	19 4	0 27	2 51	1 36	9 9	1 26	21 12	0 28	14 6	0 45	21 13	0 26	18 9	5 20	21 42	21 46	22 3	7 24	5 53			
M21	19 55	22 35	4 37	23 30	1 41	19 23	0 24	2 37	1 37	9 7	1 26	21 11	0 28	14 5	0 45	21 12	0 26	18 9	5 20	21 42	21 45	22 5	7 24	5 53			
T 22	20 8	18 55	5 6	23 49	1 46	19 42	0 22	2 24	1 37	9 5	1 26	21 10	0 29	14 5	0 45	21 12	0 26	18 9	5 20	21 42	21 45	22 7	7 24	5 52			
W23	20 21	14 23	5 17	24 6	1 51	20 0	0 20	2 11	1 37	9 4	1 26	21 9	0 29	14 5	0 45	21 12	0 26	18 9	5 20	21 42	21 44	22 9	7 24	5 52			
T 24	20 34	9 20	5 13	24 22	1 55	20 18	0 17	1 57	1 38	9 2	1 25	21 8	0 29	14 4	0 45	21 12	0 26	18 9	5 20	21 42	21 44	22 11	7 24	5 52			
F 25	20 46	4 1	4 53	24 37	1 59	20 35	0 15	1 44	1 38	9 0	1 25	21 7	0 29	14 4	0 44	21 12	0 26	18 9	5 20	21 42	21 43	22 13	7 24	5 51			
S 26	20 57	1n21	4 19	24 50	2 2	20 51	0 13	1 31	1 38	8 59	1 25	21 6	0 29	14 3	0 44	21 11	0 26	18 9	5 20	21 42	21 43	22 14	7 24	5 51			
S 27	21 9	6 36	3 35	25 2	2 6	21 7	0 10	1 18	1 39	8 57	1 25	21 5	0 29	14 3	0 44	21 11	0 26	18 9	5 20	21 42	21 42	22 16	7 24	5 50			
M28	21 19	11 33	2 41	25 13	2 9	21 23	0 8	1 4	1 39	8 56	1 24	21 4	0 29	14 3	0 44	21 11	0 26	18 9	5 20	21 42	21 42	22 18	7 24	5 50			
T 29	21 30	16 1	1 41	25 22	2 11	21 37	0 6	0 51	1 40	8 55	1 24	21 3	0 29	14 2	0 44	21 11	0 26	18 9	5 20	21 42	21 41	22 20	7 24	5 50			
W30	21s40	19n52	0s37	25s30	2s14	21s51	0n 3	0n38	1n40	8n53	1s24	21s 2	0s29	14s 2	0s44	21s10	0n26	18n 9	5s20	21n42	21n41	22n22	7s24	5n49			

ASTRODIENST EPHEMERIS for the year 1667

geocentric

DECEMBER 1667 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 39 15	8°54'24"	13°11'10"	24°57'9"	10°57'42"	2°54'48"	26°17'17"	28°31'16"	24°44'40"	22°33'32"	29°17'2"	8°17'4"	7°11'54"	10°11'55"	26°51'1"	T 1
F 2	4 43 12	9°55'19"	24°58'13"	25°39'27"	11°58'13"	3°22'55"	26°17'14"	28°21'27"	24°42'43"	22°34'36"	29°11'1"	8°11'4"	7°51'48"	11°2'9"	26°2'4"	F 2
S 3	4 47 8	10°56'16"	6°58'48"	27°8'13"	13°13'3"	3°55'26"	26°10'10"	28°27'27"	24°43'43"	22°36'29"	29°0'0"	8°3'3"	7°48'11"	11°9'26"	26°4'5"	S 3
S 4	4 51 5	11°57'13"	18°44'00"	28°36'03"	14°29'15"	4°29'5"	26°6'26"	28°32'38"	24°44'46"	22°38'40"	28°59'58"	8°3'2"	7°45'74"	11°15'22"	26°5'7"	S 4
M 5	4 55 1	12°58'11"	0°52'47"	0°53'13"	15°44'17"	5°2'53"	26°0'28"	28°38'43"	24°46'48"	22°40'41"	28°58'57"	8°2'2"	7°42'38"	11°22'29"	26°6'9"	M 5
T 6	4 58 58	13°59'10"	13°1'10"	1°30'0"	17°0'18"	5°35'9"	26°0'28"	28°43'49"	24°48'49"	22°41'43"	28°57'55"	8°1'1"	7°38'35"	11°29'35"	26°7'11"	T 6
W 7	5 2 55	15°0'11"	25°28'42"	2°56'18"	18°15'19"	6°9'64"	25°57'25"	28°49'55"	24°49'51"	22°43'45"	28°55'54"	8°1'1"	7°35'32"	11°35'42"	26°8'13"	W 7
T 8	5 6 51	16°1'12"	8°11'13"	4°20'19"	19°31'46"	6°42'15"	25°54'25"	28°55'51"	24°51'53"	22°45'47"	28°54'53"	8°1'0"	7°32'29"	11°42'49"	26°9'15"	T 8
F 9	5 10 48	17°2'14"	21°19'48"	5°43'7"	20°46'22"	7°15'48"	25°51'29"	29°1'7"	24°53'54"	22°47'49"	28°53'52"	8°1'1"	7°29'26"	11°49'55"	26°10'17"	F 9
S 10	5 14 44	18°3'18"	4°48'18"	7°4'22"	22°2'23"	7°48'21"	25°49'29"	29°7'13"	24°54'58"	22°49'51"	28°52'58"	8°2'2"	7°26'12"	11°55'26"	26°11'19"	S 10
S 11	5 18 41	19°4'22"	18°43'30"	8°23'23"	23°17'17"	8°21'25"	25°47'29"	29°13'19"	24°56'58"	22°51'53"	28°51'50"	8°2'3"	7°22'19"	12°2'8"	26°12'21"	S 11
M 12	5 22 37	20°5'27"	3°11'3"	9°40'24"	24°33'33"	8°53'25"	25°45'29"	29°19'19"	24°58'53"	22°53'50"	28°50'58"	8°3'3"	7°19'12"	12°8'26"	26°13'23"	M 12
T 13	5 26 34	21°6'34"	17°46'10"	10°54'25"	25°48'9"	9°26'25"	25°43'29"	29°25'25"	25°0'22"	22°55'48"	28°48'8"	8°4'4"	7°16'12"	12°15'26"	26°14'23"	T 13
W 14	5 30 30	22°7'41"	2°57'4"	12°5'27"	26°4'9"	9°59'25"	25°42'29"	29°31'25"	25°2'22"	22°57'48"	28°47'8"	8°4'4"	7°13'10"	12°22'28"	26°15'28"	W 14
T 15	5 34 27	23°8'49"	17°59'13"	13°13'28"	28°19'10"	10°31'25"	25°40'29"	29°37'25"	25°4'22"	22°59'46"	28°46'8"	8°4'4"	7°10'7"	12°28'35"	26°16'30"	T 15
F 16	5 38 24	24°9'57"	3°12'14"	14°16'29"	29°35'11"	11°4'25"	25°39'29"	29°43'25"	25°6'23"	23°1'28"	28°45'8"	8°3'3"	7°7'12"	12°35'36"	26°17'32"	F 16
S 17	5 42 20	25°11'06"	18°15'15"	15°14'03"	50'11"	11°36'25"	25°38'29"	29°50'25"	25°8'23"	23°3'28"	28°44'8"	8°1'3"	7°3'12"	12°42'36"	26°18'32"	S 17
S 18	5 46 17	26°12'16"	3°0'16"	16°6'2°	6'12°	12°8'25"	25°38'29"	29°56'25"	25°10'23"	23°5'28"	28°42'7"	8°1'0"	7°0'12"	12°48'36"	26°19'35"	S 18
M 19	5 50 13	27°13'25"	17°22'16"	16°52'3°	21°12°	12°40'25"	25°37'0"	29°52'25"	25°12'23"	23°7'28"	28°41'7"	8°1'0"	6°57'12"	12°55'37"	26°20'37"	M 19
T 20	5 54 10	28°14'34"	1°15'17"	17°31'4°	36'13°	13°12'25"	25°37'0°	9'25°	15'23°	9'28°	28°40'7"	8°1'0"	6°54'13°	13°2'26°	26°21'40"	T 20
W 21	5 58 6	29°15'44"	14°11'18"	1°52'5°	52'13°	13°44'25°	25°37'0°	15'25°	17'23°	12'28°	28°39'7"	8°1'0"	6°51'13°	13°8'26°	26°22'43"	W 21
T 22	6 2 3	0°16'53"	27°40'18"	22°7°	7'14°	15'25°	25°37'0°	22'25°	19'23°	14'28°	28°38'7"	8°1'0"	6°48'13°	13°15'26°	26°23'45"	T 22
F 23	6 5 59	1°18'03"	10°16'18"	18°33'8°	23'14°	17'25°	25°37'0°	28'25°	22'23°	16'28°	28°36'7"	8°1'0"	6°44'13°	13°22'26°	26°24'48"	F 23
S 24	6 9 56	2°19'12"	22°33'18°	R33'9°	38'15°	18'25°	25°38'0°	35'25°	24'23°	18'28°	28°35'7"	8°1'0"	6°41'13°	13°28'26°	26°25'51"	S 24
S 25	6 13 53	3°20'21"	4°36'18°	22'10°	54'15°	25°39'0°	25°39'0°	41'25°	26'23°	20'28°	28°34'7"	8°1'0"	6°38'13°	13°35'26°	26°26'53"	S 25
M 26	6 17 49	4°21'31"	16°36'17°	59'12°	9'16°	26°21'25°	25°40'0°	48'25°	29'23°	22'28°	28°33'7"	8°1'0"	6°35'13°	13°42'26°	26°27'56"	M 26
T 27	6 21 46	5°22'40"	28°18'17°	25'13°	24'16°	26°52'25°	25°41'0°	55'25°	31'23°	24'28°	28°31'7"	8°1'0"	6°32'13°	13°48'26°	26°28'59"	T 27
W 28	6 25 42	6°23'49"	10°11'5	16°38'14°	40'17°	23'25°	25°42'1°	25°34'23°	27'28°	30'7°	28°30'7"	8°1'0"	6°29'13°	13°55'27°	26°29'52"	W 28
T 29	6 29 39	7°24'58"	21°53'15°	42'15°	55'17°	24'25°	25°44'1°	8'25°	36'23°	29'28°	28°29'7"	8°1'0"	6°25'14°	14°1'27°	26°30'52"	T 29
F 30	6 33 35	8°26'07"	3°54'14°	36'17°	11'18°	25'25°	25°46'1°	15'25°	39'23°	31'28°	28°28'7"	8°1'0"	6°22'14°	14°8'27°	26°31'53"	F 30
S 31	6 37 32	9°27'16"	15°43'13°	22'18°	26'18°	25'55°	25°48'1°	22'25°	41'23°	33'28°	28°27'7"	8°1'0"	6°19'14°	14°15'27°	26°32'51"	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	21s50	22n53	0n28	25s37	2s16	22s 5	0n 1	0n25	1n40	8n52	1s24	21s 1	0s29	14s 1	0s44	T 1
F 2	21 59	24 56	1 33	25 42	2 17	22 18	0s 2	0 12	1 41	8 51	1 23	21 0	0 29	14 1	0 44	F 2
S 3	22 7	25 51	2 33	25 46	2 19	22 30	0 4	0s 1	1 41	8 50	1 23	20 59	0 29	14 0	0 44	S 3
S 4	22 16	25 36	3 27	25 48	2 19	22 41	0 6	0 14	1 41	8 49	1 23	20 58	0 29	14 0	0 44	S 4
M 5	22 24	24 8	4 13	25 49	2 20	22 52	0 9	0 27	1 41	8 48	1 22	20 57	0 29	13 59	0 44	M 5
T 6	22 31	21 32	4 48	25 48	2 19	23 2	0 11	0 40	1 42	8 47	1 22	20 56	0 29	13 58	0 44	T 6
W 7	22 38	17 55	5 10	25 45	2 18	23 11	0 14	0 53	1 42	8 46	1 22	20 55	0 29	13 58	0 44	W 7
T 8	22 45	13 24	5 18	25 42	2 17	23 20	0 16	1 6	1 42	8 45	1 22	20 53	0 29	13 57	0 44	T 8
F 9	22 51	8 11	5 9	25 36	2 15	23 28	0 18	1 18	1 43	8 45	1 21	20 52	0 29	13 57	0 44	F 9
S 10	22 57	2 26	4 44	25 30	2 12	23 35	0 21	1 31	1 43	8 44	1 21	20 51	0 29	13 56	0 44	S 10
S 11	23 2	3s38	4 1	25 21	2 9	23 42	0 23	1 44	1 43	8 44	1 21	20 50	0 29	13 55	0 44	S 11
M 12	23 7	9 42	3 2	25 12	2 4	23 47	0 25	1 56	1 44	8 43	1 20	20 49	0 29	13 55	0 44	M 12
T 13	23 11	15 24	1 50	25 1	1 59	23 53	0 28	2 9	1 44	8 43	1 20	20 47	0 29	13 54	0 44	T 13
W 14	23 15	20 17	0 29	24 49	1 53	23 57	0 30	2 22	1 44	8 43	1 20	20 46	0 29	13 53	0 44	W 14
T 15	23 18	23 51	0s55	24 35	1 46	24 0	0 32	2 34	1 45	8 43	1 19	20 45	0 29	13 53	0 44	T 15
F 16	23 21	25 41	2 15	24 21	1 38	24 3	0 34	2 46	1 45	8 42	1 19	20 44	0 29	13 52	0 44	F 16
S 17	23 24	25 37	3 25	24 5	1 29	24 5	0 37	2 59	1 45	8 42	1 19	20 42	0 30	13 51	0 44	S 17
S 18	23 26	23 43	4 19	23 49	1 19	24 7	0 39	3 11	1 46	8 42	1 18	20 41	0 30	13 50	0 44	S 18
M 19	23 27	20 21	4 56	23 32	1 7	24 7	0 41	3 23	1 46	8 43	1 18	20 40	0 30	13 50	0 44	M 19
T 20	23 28	15 56	5 14	23 14	0 55	24 7	0 43	3 35	1 46	8 43	1 18	20 38	0 30	13 49	0 44	T 20
W 21	23 29	10 52	5 14	22 57	0 41	24 6	0 45	3 47	1 47	8 43	1 17	20 37	0 30	13 48	0 44	W 21
T 22	23 29	5 28	4 57	22 39	0 26	24 5	0 47	3 59	1 47	8 43	1 17	20 36	0 30	13 47	0 44	T 22
F 23	23 29	0 1	4 27	22 21	0 10	24 2	0 49	4 11	1 47	8 44	1 17	20 34	0 30	13 47	0 44	F 23
S 24	23 28	5n19	3 45	22 4	0n 8	23 59	0 51	4 23	1 48	8 44	1 17	20 33	0 30	13 46	0 44	S 24
S 25	23 26	10 21	2 54	21 48	0 26	23 55	0 53	4 35	1 48	8 45	1 16	20 32	0 30	13 45	0 44	S 25
M 26	23 25	14 57	1 56	21 32	0 45	23 51	0 55	4 47	1 48	8 45	1 16	20 30	0 30	13 44	0 44	M 26
T 27	23 22	18 57	0 53	21 17	1 4	23 45	0 57	4 58	1 48	8 46	1 16	20 29	0 30	13 43	0 43	T 27
W 28	23 20	22 12	0n12	21 4	1 24	23 39	0 59	5 10	1 49	8 47	1 15	20 27	0 30	13 42	0 43	W 28
T 29	23 17	24 30	1 16	20 51	1 43	23 32	1 1	5 21	1 49	8 48	1 15	20 26	0 30	13 41	0 43	T 29
F 30	23 13	25 42	2 17	20 40	2 2	23 25	1 3	5 33	1 49	8 49	1 15	20 25	0 30	13 41	0 43	F 30
S 31	23s 9	25n44	3n12	20s30	2n19	23s16	1s 4	5s44	1n50	8n50	1s14	20s23	0s30	13s40	0s43	S 31

Julian Day Number = 2330253.5, Delta T = 31.09 sec
 Ecliptic obliquity = 23°29'00", Nutation = - 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°06'18", Lahiri = 19°13'18"Greg. Calendar