



Astrodienst Ephemeris Tables for the year 1612

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 1612

geocentric

FEBRUARY 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 41 59	11 ³⁵ 52	1 ⁵⁶	25 ⁴⁰	23 ⁵²	5 ⁵⁶	22 ²⁹	4 ⁵⁵	18 ⁹	23 ⁵⁷	2 ⁵⁷	9 ¹¹	7 ⁴⁵	19 ⁵	17 ³⁶	W 1
T 2	8 45 55	12 ³⁶ 41	13 ⁴⁸	27 ²⁰	25 ⁷	6 ⁴⁰	22 ²¹	5 ²	18 ¹¹	23 ⁵⁶	2 ⁵⁸	9 ¹¹	7 ⁴²	19 ¹²	17 ⁴²	T 2
F 3	8 49 52	13 ³⁷ 29	25 ⁴⁰	28 ⁵⁹	26 ²²	7 ²⁵	22 ¹⁴	5 ⁹	18 ⁷	23 ⁵⁵	2 ⁵⁸	8 ⁴⁷	7 ³⁸	19 ¹⁸	17 ⁴⁷	F 3
S 4	8 53 48	14 ³⁸ 15	7 ³²	0 ³⁵	27 ³⁷	8 ⁹	22 ⁶	5 ¹⁶	18 ⁶	23 ⁵⁴	2 ⁵⁸	8 ³³	7 ³⁵	19 ²⁵	17 ⁵²	S 4
S 5	8 57 45	15 ³⁹ 00	19 ²⁷	2 ⁸	28 ⁵²	8 ⁵⁴	21 ⁵⁸	5 ²³	18 ⁵	23 ⁵²	2 ⁵⁹	8 ²¹	7 ³²	19 ³²	17 ⁵⁷	S 5
M 6	9 1 42	16 ³⁹ 43	1 ²⁵	3 ³⁷	0 ⁷	9 ³⁸	21 ⁵⁰	5 ³¹	18 ⁴	23 ⁵¹	2 ⁵⁹	8 ¹¹	7 ²⁹	19 ³⁹	18 ²	M 6
T 7	9 5 38	17 ⁴⁰ 24	13 ³¹	5 ³	1 ²²	10 ²³	21 ⁴²	5 ³⁸	18 ³	23 ⁵⁰	3 ⁰	8 ³	7 ²⁶	19 ⁴⁵	18 ⁷	T 7
W 8	9 9 35	18 ⁴¹ 04	25 ⁴⁷	6 ²³	2 ³⁷	11 ⁸	21 ³⁴	5 ⁴⁵	18 ²	23 ⁴⁹	3 ⁰	7 ⁵⁸	7 ²³	19 ⁵²	18 ¹³	W 8
T 9	9 13 31	19 ⁴¹ 42	8 ¹⁷	7 ³⁸	3 ⁵²	11 ⁵²	21 ²⁶	5 ⁵²	18 ¹	23 ⁴⁷	3 ⁰	7 ⁵⁶	7 ¹⁹	19 ⁵⁹	18 ¹⁸	T 9
F 10	9 17 28	20 ⁴² 19	21 ⁵	8 ⁴⁷	5 ⁷	12 ³⁷	21 ¹⁸	5 ⁵⁹	18 ⁰	23 ⁴⁶	3 ¹	7 ⁵⁵	7 ¹⁶	20 ⁵	18 ²³	F 10
S 11	9 21 24	21 ⁴² 54	4 ¹⁶	9 ⁴⁹	6 ²²	13 ²²	21 ¹⁰	6 ⁶	17 ⁵⁹	23 ⁴⁵	3 ²	7 ⁵⁵	7 ¹³	20 ¹²	18 ²⁸	S 11
S 12	9 25 21	22 ⁴³ 27	17 ⁵³	10 ⁴⁴	7 ³⁷	14 ⁶	21 ³	6 ¹⁴	17 ⁵⁹	23 ⁴³	3 ²	7 ⁵⁵	7 ¹⁰	20 ¹⁹	18 ³²	S 12
M13	9 29 17	23 ⁴³ 58	1 ⁵⁸	11 ³⁰	8 ⁵¹	14 ⁵¹	20 ⁵⁵	6 ²¹	17 ⁵⁸	23 ⁴²	3 ³	7 ⁵³	7 ⁷	20 ²⁶	18 ³⁷	M13
T 14	9 33 14	24 ⁴⁴ 28	16 ³²	12 ⁷	10 ⁶	15 ³⁶	20 ⁴⁷	6 ²⁸	17 ⁵⁷	23 ⁴¹	3 ³	7 ⁴⁹	7 ³	20 ³²	18 ⁴²	T 14
W15	9 37 11	25 ⁴⁴ 55	1 ³⁰	12 ³⁵	11 ²¹	16 ²¹	20 ³⁹	6 ³⁵	17 ⁵⁷	23 ³⁹	3 ⁴	7 ⁴¹	7 ⁰	20 ³⁹	18 ⁴⁷	W15
T 16	9 41 7	26 ⁴⁵ 21	16 ⁴⁵	12 ⁵³	12 ³⁶	17 ⁶	20 ³¹	6 ⁴³	17 ⁵⁶	23 ³⁸	3 ⁴	7 ³²	6 ⁵⁷	20 ⁴⁶	18 ⁵²	T 16
F 17	9 45 4	27 ⁴⁵ 45	2 ⁷	13 ¹³	13 ⁵¹	17 ⁵¹	20 ²³	6 ⁵⁰	17 ⁵⁶	23 ³⁶	3 ⁵	7 ²⁰	6 ⁵⁴	20 ⁵³	18 ⁵⁶	F 17
S 18	9 49 0	28 ⁴⁶ 08	17 ²⁵	12 ⁵⁹	15 ⁵	18 ³⁶	20 ¹⁵	6 ⁵⁷	17 ⁵⁵	23 ³⁵	3 ⁶	7 ⁹	6 ⁵¹	20 ⁵⁹	19 ¹	S 18
S 19	9 52 57	29 ⁴⁶ 28	2 ²⁵	12 ⁴⁷	16 ²⁰	19 ²¹	20 ⁸	7 ⁴	17 ⁵⁵	23 ³³	3 ⁶	6 ⁵⁹	6 ⁴⁸	21 ⁶	19 ⁶	S 19
M20	9 56 53	0 ⁴⁶ 48	17 ¹	12 ²⁶	17 ³⁵	20 ⁶	20 ⁰	7 ¹²	17 ⁵⁵	23 ³²	3 ⁷	6 ⁵¹	6 ⁴⁴	21 ¹³	19 ¹⁰	M20
T 21	10 0 50	1 ⁴⁷ 05	1 ¹⁸	11 ⁵⁵	18 ⁴⁹	20 ⁵¹	19 ⁵²	7 ¹⁹	17 ⁵⁵	23 ³⁰	3 ⁸	6 ⁴⁶	6 ⁴¹	21 ¹⁹	19 ¹⁵	T 21
W22	10 4 46	2 ⁴⁷ 22	14 ⁴⁴	11 ¹⁷	20 ⁴	21 ³⁶	19 ⁴⁵	7 ²⁶	17 ⁵⁴	23 ²⁹	3 ⁹	6 ⁴³	6 ³⁸	21 ²⁶	19 ¹⁹	W22
T 23	10 8 43	3 ⁴⁷ 37	27 ⁵¹	10 ³¹	21 ¹⁹	22 ²¹	19 ³⁷	7 ³⁴	17 ⁵⁴	23 ²⁷	3 ⁹	6 ⁴³	6 ³⁵	21 ³³	19 ²⁴	T 23
F 24	10 12 39	4 ⁴⁷ 50	10 ³⁴	9 ³⁸	22 ³³	23 ⁶	19 ³⁰	7 ⁴¹	17 ⁵⁴	23 ²⁶	3 ¹⁰	6 ⁴²	6 ³²	21 ⁴⁰	19 ²⁸	F 24
S 25	10 16 36	5 ⁴⁸ 02	22 ⁵⁸	8 ⁴²	23 ⁴⁸	23 ⁵¹	19 ²²	7 ⁴⁸	17 ⁵⁴	23 ²⁴	3 ¹¹	6 ⁴²	6 ²⁹	21 ⁴⁶	19 ³³	S 25
S 26	10 20 33	6 ⁴⁸ 12	5 ³	7 ⁴²	25 ²	24 ³⁶	19 ¹⁵	7 ⁵⁶	17 ⁵⁴	23 ²³	3 ¹²	6 ⁴⁰	6 ²⁵	21 ⁵³	19 ³⁷	S 26
M27	10 24 29	7 ⁴⁸ 21	17 ⁵	6 ⁴⁰	26 ¹⁷	25 ²²	19 ⁸	8 ³	17 ⁵⁴	23 ²¹	3 ¹³	6 ³⁵	6 ²²	22 ⁰	19 ⁴¹	M27
T 28	10 28 26	8 ⁴⁸ 28	28 ⁵⁸	5 ³⁸	27 ³¹	26 ⁷	19 ¹	8 ¹⁰	17 ⁵⁴	23 ²⁰	3 ¹⁴	6 ²⁷	6 ¹⁹	22 ⁶	19 ⁴⁵	T 28
W29	10 32 22	9 ⁴⁸ 34	10 ⁴⁸	4 ³⁷	28 ⁴⁶	26 ⁵²	18 ⁵⁴	8 ¹⁸	17 ⁵⁵	23 ¹⁸	3 ¹⁴	6 ¹⁷	6 ¹⁶	22 ¹³	19 ⁵⁰	W29

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	17s21	23s41	4s 1	14s 0	1s 4	15s 0	1s29	23s55	0s34	15n 7	1n 7	11s17	1s41	23n 5	0n 7	3n37	1n19	2s46	16s14	21n53	21n39	19s46	15s59	6n24			
T 2	17 4	21 5	4 34	13 17	0 55	14 35	1 29	23 54	0 35	15 9	1 8	11 15	1 41	23 5	0 7	3 37	1 19	2 45	16 13	21 51	21 38	19 44	15 58	6 24			
F 3	16 46	17 36	4 54	12 33	0 44	14 9	1 29	23 52	0 35	15 12	1 8	11 12	1 41	23 5	0 7	3 38	1 19	2 45	16 13	21 49	21 38	19 42	15 57	6 24			
S 4	16 29	13 25	5 2	11 49	0 33	13 44	1 29	23 50	0 36	15 15	1 8	11 9	1 41	23 4	0 7	3 38	1 19	2 44	16 13	21 47	21 37	19 40	15 56	6 25			
S 5	16 11	8 43	4 56	11 5	0 22	13 17	1 29	23 48	0 37	15 17	1 8	11 7	1 41	23 4	0 7	3 39	1 19	2 44	16 12	21 45	21 37	19 38	15 55	6 25			
M 6	15 53	3 41	4 38	10 21	0 9	12 51	1 29	23 46	0 37	15 20	1 8	11 4	1 41	23 4	0 7	3 39	1 19	2 43	16 12	21 43	21 36	19 36	15 54	6 25			
T 7	15 34	1n34	4 7	9 37	0n 4	12 24	1 29	23 43	0 38	15 23	1 8	11 2	1 41	23 4	0 7	3 40	1 19	2 43	16 12	21 42	21 36	19 34	15 53	6 25			
W 8	15 15	6 49	3 24	8 55	0 18	11 57	1 29	23 40	0 39	15 25	1 8	10 59	1 41	23 4	0 7	3 40	1 19	2 42	16 11	21 41	21 35	19 32	15 53	6 26			
T 9	14 57	11 56	2 30	8 14	0 32	11 29	1 29	23 37	0 40	15 28	1 8	10 56	1 41	23 4	0 7	3 41	1 19	2 42	16 11	21 41	21 35	19 30	15 52	6 26			
F 10	14 37	16 39	1 28	7 34	0 47	11 1	1 28	23 34	0 40	15 31	1 8	10 54	1 41	23 4	0 7	3 41	1 19	2 41	16 11	21 41	21 34	19 28	15 51	6 26			
S 11	14 18	20 43	0 19	6 57	1 2	10 33	1 28	23 30	0 41	15 33	1 9	10 51	1 41	23 4	0 7	3 42	1 19	2 41	16 10	21 41	21 34	19 27	15 50	6 27			
S 12	13 58	23 48	0n53	6 22	1 18	10 5	1 27	23 26	0 42	15 36	1 9	10 48	1 41	23 4	0 7	3 43	1 19	2 40	16 10	21 41	21 33	19 25	15 49	6 27			
M13	13 38	25 32	2 4	5 50	1 33	9 36	1 27	23 22	0 43	15 39	1 9	10 46	1 41	23 4	0 7	3 43	1 19	2 40	16 10	21 40	21 33	19 23	15 48	6 27			
T 14	13 18	25 35	3 9	5 21	1 49	9 7	1 26	23 18	0 43	15 41	1 9	10 43	1 41	23 4	0 7	3 44	1 19	2 39	16 9	21 40	21 32	19 21	15 47	6 28			
W15	12 58	23 49	4 3	4 56	2 5	8 38	1 25	23 13	0 44	15 44	1 9	10 40	1 41	23 4	0 7	3 44	1 19	2 39	16 9	21 38	21 32	19 19	15 46	6 28			
T 16	12 37	20 19	4 41	4 35	2 20	8 9	1 25	23 8	0 45	15 46	1 9	10 38	1 41	23 4	0 7	3 45	1 19	2 38	16 9	21 37	21 31	19 17	15 45	6 28			
F 17	12 17	15 23	4 59	4 18	2 34	7 39	1 24	23 3	0 45	15 49	1 9	10 35	1 41	23 4	0 7	3 45	1 19	2 38	16 8	21 35	21 31	19 15	15 44	6 28			
S 18	11 56	9 31	4 56	4 6	2 48	7 10	1 23	22 57	0 46	15 51	1 9	10 32	1 41	23 4	0 7	3 46	1 19	2 37	16 8	21 33	21 30	19 13	15 43	6 29			
S 19	11 35	3 11	4 32	3 59	3 1	6 40	1 22	22 52	0 47	15 54	1 9	10 29	1 41	23 4	0 7	3 47	1 19	2 37	16 8	21 31	21 29	19 11	15 42	6 29			
M20	11 13	3s 9	3 50	3 57	3 13	6 10	1 21	22 46	0 48	15 56	1 9	10 27	1 41	23 4	0 7	3 47	1 19	2 36	16 7	21 30	21 29	19 9	15 41	6 29			
T 21	10 52	9 8	2 56	3 59	3 22	5 39	1 20	22 40	0 48	15 59	1 9	10 24	1 41	23 4	0 7	3 48	1 19	2 36	16 7	21 29	21 28	19 7	15 40	6 30			
W22	10 30	14 29	1 53	4 6	3 31	5 9	1 19	22 34	0 49	16 1	1 9	10 21	1 41	23 4	0 7	3 49	1 19	2 35	16 7	21 29	21 28	19 5	15 39	6 30			
T 23	10 8	18 58	0 47	4 18	3 37	4 38	1 18	22 27	0 50	16 4	1 9	10 19	1 41	23 4	0 7	3 49	1 19	2 35	16 6	21 29	21 27	19 3	15 38	6 31			
F 24	9 46	22 25	0s20	4 33	3 41	4 8	1 16	22 20	0 50	16 6	1 9	10 16	1 41	23 4	0 7	3 50	1 20	2 34	16 6	21 29	21 27	19 1	15 37	6 31			
S 25	9 24	24 43	1 25	4 52	3 44	3 37	1 15	22 13	0 51	16 8	1 9	10 13	1 41	23 4	0 7	3 50	1 20	2 34	16 6	21 28	21 26	18 59	15 36	6 31			
S 26	9 2	25 47	2 24	5 15	3 44	3 6	1 14	22 6	0 52	16 11	1 9	10 11	1 41	23 4	0 7	3 51	1 20	2 33	16 6	21 28	21 26	18 57	15 35	6 32			
M27	8 40	25 38	3 16	5 39	3 41	2 35	1 12	21 58	0 53	16 13	1 9	10 8	1 41	23 4	0 7	3 52	1 20	2 33	16 5	21 27	21 25	18 55	15 34	6 32			
T 28	8 17	24 38	3 59	6 6	3 37	2 4	1 11	21 51	0 53	16 15	1 9	10 5	1 41	23 4	0 7	3 52	1 20	2 32	16 5	21 26	21 25	18 53	15 33	6 33			
W29	7s54	21s54	4s31	6s34	3n31	1s33	1s 9	21s43	0s54	16n17	1n 9	10s 2	1s41	23n 4	0n 7	3n53	1n20	2s32	16s 5	21n24	21n24	18s51	15s33	6n33			

ASTRODIENST EPHEMERIS for the year 1612
geocentric

MARCH 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 36 19	10♈48'37	22♊39	3°R38	0°Y 0	27♌37	18°R47	8♎25	17♏55	23°R16	3♑15	6°R 4	6♒13	22♓20	19♈54	T 1
F 2	10 40 15	11°48'39	4♋32	2♈43	1°14	28°23	18♌40	8°33	17°55	23♎15	3°16	5♏49	6° 9	22°27	19°58	F 2
S 3	10 44 12	12°48'39	16°29	1°53	2°29	29° 8	18°33	8°40	17°55	23°13	3°17	5°34	6° 6	22°33	20° 2	S 3
S 4	10 48 8	13°48'37	28°30	1° 7	3°43	29°53	18°27	8°47	17°56	23°11	3°18	5°20	6° 3	22°40	20° 6	S 4
M 5	10 52 5	14°48'33	10♋37	0°28	4°57	0♌39	18°20	8°55	17°56	23°10	3°19	5° 8	6° 0	22°47	20° 9	M 5
T 6	10 56 2	15°48'26	22°51	29♌55	6°12	1°24	18°14	9° 2	17°57	23° 8	3°20	4°59	5°57	22°53	20°13	T 6
W 7	10 59 58	16°48'18	5♌15	29°28	7°26	2° 9	18° 8	9° 9	17°57	23° 7	3°21	4°53	5°54	23° 0	20°17	W 7
T 8	11 3 55	17°48'08	17°50	29° 8	8°40	2°55	18° 2	9°16	17°58	23° 5	3°22	4°50	5°50	23° 7	20°21	T 8
F 9	11 7 51	18°47'55	0♏41	28°54	9°54	3°40	17°56	9°24	17°59	23° 3	3°23	4°D49	5°47	23°14	20°24	F 9
S 10	11 11 48	19°47'40	13°49	28°46	11° 8	4°26	17°50	9°31	17°59	23° 2	3°24	4°R49	5°44	23°20	20°28	S 10
S 11	11 15 44	20°47'23	27°19	28°D45	12°22	5°11	17°44	9°38	18° 0	23° 0	3°25	4°49	5°41	23°27	20°32	S 11
M12	11 19 41	21°47'04	11♌12	28°49	13°36	5°56	17°39	9°46	18° 1	22°58	3°26	4°47	5°38	23°34	20°35	M12
T 13	11 23 37	22°46'42	25°30	29° 0	14°50	6°42	17°33	9°53	18° 2	22°57	3°27	4°44	5°35	23°41	20°38	T 13
W14	11 27 34	23°46'18	10♌11	29°15	16° 4	7°27	17°28	10° 0	18° 3	22°55	3°28	4°38	5°31	23°47	20°42	W14
T 15	11 31 31	24°45'51	25°11	29°36	17°18	8°13	17°23	10° 7	18° 4	22°53	3°29	4°29	5°28	23°54	20°45	T 15
F 16	11 35 27	25°45'23	10♎20	0♈ 2	18°32	8°59	17°18	10°14	18° 5	22°52	3°30	4°19	5°25	24° 1	20°48	F 16
S 17	11 39 24	26°44'52	25°28	0°33	19°46	9°44	17°13	10°22	18° 6	22°50	3°32	4° 9	5°22	24° 7	20°51	S 17
S 18	11 43 20	27°44'19	10♏26	1° 7	21° 0	10°30	17° 9	10°29	18° 7	22°48	3°33	4° 0	5°19	24°14	20°54	S 18
M19	11 47 17	28°43'44	25° 5	1°46	22°13	11°15	17° 4	10°36	18° 8	22°47	3°34	3°52	5°15	24°21	20°57	M19
T 20	11 51 13	29°43'07	9♎17	2°29	23°27	12° 1	17° 0	10°43	18°10	22°45	3°35	3°47	5°12	24°28	21° 0	T 20
W21	11 55 10	0°Y42'29	23° 0	3°15	24°41	12°46	16°56	10°50	18°11	22°43	3°36	3°45	5° 9	24°34	21° 3	W21
T 22	11 59 6	1°41'48	6♌15	4° 5	25°54	13°32	16°52	10°57	18°12	22°42	3°37	3°D44	5° 6	24°41	21° 6	T 22
F 23	12 3 3	2°41'06	19° 5	4°58	27° 8	14°18	16°48	11° 4	18°14	22°40	3°38	3°45	5° 3	24°48	21° 9	F 23
S 24	12 7 0	3°40'22	1♌32	5°54	28°21	15° 3	16°45	11°11	18°15	22°38	3°40	3°R46	5° 0	24°54	21°12	S 24
S 25	12 10 56	4°39'37	13°43	6°53	29°35	15°49	16°41	11°18	18°17	22°37	3°41	3°45	4°56	25° 1	21°14	S 25
M26	12 14 53	5°38'49	25°43	7°54	0♏48	16°35	16°38	11°25	18°18	22°35	3°42	3°43	4°53	25° 8	21°17	M26
T 27	12 18 49	6°38'00	7♌35	8°58	2° 2	17°20	16°35	11°32	18°20	22°34	3°43	3°38	4°50	25°15	21°19	T 27
W28	12 22 46	7°37'09	19°26	10° 5	3°15	18° 6	16°32	11°39	18°21	22°32	3°45	3°32	4°47	25°21	21°22	W28
T 29	12 26 42	8°36'16	1♈18	11°14	4°28	18°52	16°29	11°46	18°23	22°30	3°46	3°23	4°44	25°28	21°24	T 29
F 30	12 30 39	9°35'21	13°14	12°25	5°42	19°37	16°27	11°53	18°25	22°29	3°47	3°13	4°40	25°35	21°26	F 30
S 31	12 34 35	10°Y34'24	25♈16	13♈39	6♌55	20♌23	16♌25	11♈59	18♏27	22♎27	3♑48	3♒ 2	4♒37	25♓41	21♈28	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
T 1	7s32	18s34	4s51	7s 2	3n23	1s 2	1s 7	21s35	0s55	16n20	1n 9	10s 0	1s41	23n 4	0n 7	3n54	1n20	2s31	16s 4	21n22	21n23	18s49	15s32	6n33		
F 2	7 9	14 30	4 59	7 31	3 13	0 31	1 6	21 26	0 55	16 22	1 9	9 57	1 41	23 4	0 7	3 54	1 20	2 30	16 4	21 19	21 23	18 47	15 31	6 34		
S 3	6 46	9 51	4 54	7 59	3 3	0n 1	1 4	21 18	0 56	16 24	1 9	9 54	1 41	23 4	0 7	3 55	1 20	2 30	16 4	21 17	21 22	18 45	15 30	6 34		
S 4	6 23	4 49	4 36	8 26	2 51	0 32	1 2	21 9	0 57	16 26	1 9	9 52	1 41	23 4	0 7	3 56	1 20	2 29	16 4	21 14	21 22	18 43	15 29	6 35		
M 5	6 0	0n28	4 5	8 52	2 38	1 3	1 0	21 0	0 58	16 28	1 9	9 49	1 41	23 4	0 7	3 56	1 20	2 29	16 3	21 12	21 21	18 41	15 28	6 35		
T 6	5 37	5 47	3 22	9 17	2 24	1 34	0 58	20 50	0 58	16 30	1 9	9 46	1 42	23 4	0 7	3 57	1 20	2 28	16 3	21 11	21 21	18 39	15 27	6 35		
W 7	5 13	10 57	2 29	9 39	2 10	2 6	0 56	20 41	0 59	16 32	1 9	9 43	1 42	23 4	0 7	3 58	1 20	2 28	16 3	21 9	21 20	18 37	15 26	6 36		
T 8	4 50	15 46	1 29	10 0	1 55	2 37	0 54	20 31	1 0	16 34	1 9	9 41	1 42	23 4	0 7	3 58	1 20	2 27	16 3	21 9	21 20	18 35	15 25	6 36		
F 9	4 26	19 59	0 22	10 18	1 41	3 8	0 52	20 21	1 0	16 35	1 9	9 38	1 42	23 4	0 7	3 59	1 20	2 27	16 2	21 9	21 19	18 33	15 24	6 37		
S 10	4 3	23 18	0n48	10 35	1 26	3 39	0 50	20 11	1 1	16 37	1 9	9 35	1 42	23 4	0 7	4 0	1 20	2 26	16 2	21 9	21 18	18 30	15 23	6 37		
S 11	3 39	25 24	1 56	10 49	1 12	4 10	0 48	20 1	1 2	16 39	1 9	9 33	1 42	23 4	0 7	4 0	1 20	2 25	16 2	21 9	21 18	18 28	15 22	6 38		
M12	3 16	26 0	3 0	11 1	0 57	4 41	0 46	19 50	1 2	16 41	1 9	9 30	1 42	23 4	0 7	4 1	1 20	2 25	16 2	21 8	21 17	18 26	15 21	6 38		
T 13	2 52	24 56	3 55	11 10	0 43	5 11	0 44	19 39	1 3	16 42	1 9	9 27	1 42	23 4	0 7	4 2	1 20	2 24	16 1	21 8	21 17	18 24	15 20	6 39		
W14	2 29	22 8	4 35	11 18	0 30	5 42	0 41	19 28	1 4	16 44	1 9	9 25	1 42	23 4	0 7	4 2	1 20	2 24	16 1	21 7	21 16	18 22	15 19	6 39		
T 15	2 5	17 50	4 58	11 23	0 16	6 13	0 39	19 17	1 5	16 45	1 9	9 22	1 42	23 4	0 7	4 3	1 20	2 23	16 1	21 5	21 16	18 20	15 18	6 40		
F 16	1 41	12 20	5 0	11 26	0 3	6 43	0 37	19 6	1 5	16 47	1 9	9 19	1 42	23 5	0 7	4 4	1 20	2 23	16 1	21 3	21 15	18 18	15 17	6 40		
S 17	1 18	6 6	4 42	11 27	0s 9	7 13	0 34	18 55	1 6	16 48	1 9	9 17	1 42	23 5	0 7	4 4	1 20	2 22	16 0	21 1	21 15	18 16	15 16	6 41		
S 18	0 54	0s24	4 4	11 26	0 21	7 43	0 32	18 43	1 7	16 49	1 9	9 14	1 43	23 5	0 7	4 5	1 20	2 21	16 0	21 0	21 14	18 14	15 15	6 41		
M19	0 30	6 46	3 10	11 23	0 33	8 13	0 29	18 31	1 7	16 51	1 9	9 11	1 43	23 5	0 7	4 6	1 20	2 21	16 0	20 58	21 13	18 12	15 14	6 42		
T 20	0 7	12 37	2 6	11 17	0 44	8 43	0 27	18 19	1 8	16 52	1 9	9 9	1 43	23 5	0 7	4 6	1 20	2 20	16 0	20 57	21 13	18 9	15 13	6 42		
W21	0n17	17 39	0 57	11 11	0 54	9 12	0 24	18 7	1 9	16 53	1 9	9 6	1 43	23 5	0 7	4 7	1 20	2 20	16 0	20 57	21 12	18 7	15 12	6 43		
T 22	0 41	21 37	0s13	11 2	1 4	9 42	0 21	17 54	1 9	16 54	1 9	9 4	1 43	23 5	0 7	4 8	1 20	2 19	15 59	20 57	21 12	18 5	15 11	6 43		
F 23	1 4	24 23	1 21	10 51	1 14	10 11	0 19	17 42	1 10	16 55	1 8	9 1	1 43	23 5	0 7	4 8	1 20	2 19	15 59	20 57	21 11	18 3	15 11	6 44		
S 24	1 28	25 52	2 23	10 39	1 22	10 40	0 16	17 29	1 11	16 56	1 8	8 58	1 43	23 5	0 7	4 9	1 20	2 18	15 59	20 57	21 11	18 1	15 10	6 44		
S 25	1 51	26 2	3 17	10 25	1 31	11 8	0 13	17 16	1 11	16 57	1 8	8 56	1 43	23 6	0 7	4 10	1 20	2 18	15 59	20 57	21 10	17 59	15 9	6 45		
M26	2 15	24 59	4 1	10 9	1 39	11 37	0 11	17 3	1 12	16 58	1 8	8 53	1 43	23 6	0 7	4 10	1 20	2 17	15 59	20 56	21 9	17 57	15 8	6 45		
T 27	2 38	22 50	4 34	9 52	1 46	12 5	0 8	16 49	1 13	16 59	1 8	8 51	1 43	23 6	0 7	4 11	1 20	2 16	15 59	20 56	21 9	17 54	15 7	6 46		
W28	3 2	19 42	4 56	9 33	1 53	12 33	0 5	16 36	1 13	17 0	1 8	8 48	1 44	23 6	0 7	4 11	1 20	2 16	15 58	20 54	21 8	17 52	15 6	6 46		
T 29	3 25	15 46	5 5	9 12	1 59	13 0	0 2	16 22	1 14	17 0	1 8	8 46	1 44	23 6	0 7	4 12	1 20	2 15	15 58	20 53	21 8	17 50	15 5	6 47		
F 30	3 48	11 13	5 0	8 50	2 5	13 27	0n 0	16 9	1 14	17 1	1 8	8 43	1 44	23 6	0 7	4 13	1 20	2 15	15 58	20 51	21 7	17 48	15 4	6 47		
S 31	4n12	6s12	4s43	8s27	2s10	13n54	0n 3	15s55	1s15	17n 2	1n 8	8s41	1s44	23n 6	0n 7	4n13	1n20	2s14	15s58	20n49	21n 7	17s46	15s 3	6n48		

ASTRODIENST EPHEMERIS for the year 1612

geocentric

MAY 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 36 49	10 ⁸ 48'13	11 ⁸ 17	6 ⁸ 17	14 ^{II} 18	13 ^{II} 58	16 ^Q 45	15 ^{II} 7	19 ^{II} 42	21 ^R 47	4 ⁸ 30	1 ^R 46	2 ^{II} 59	29 ^{II} 10	21 ^R 58	T 1
W 2	14 40 45	11 ⁰ 46'16	24 ⁰ 16	8 ⁰ 25	15 ⁰ 29	14 ⁰ 44	16 ⁰ 48	15 ⁰ 12	19 ⁰ 45	21 ^{II} 46	4 ⁰ 31	1 ^{II} 45	2 ⁰ 56	29 ⁰ 17	21 ^{II} 58	W 2
T 3	14 44 42	12 ⁰ 44'17	7 ^{II} 28	10 ⁰ 34	16 ⁰ 41	15 ⁰ 29	16 ⁰ 52	15 ⁰ 17	19 ⁰ 48	21 ⁰ 45	4 ⁰ 33	1 ⁰ D45	2 ⁰ 52	29 ⁰ 23	21 ⁰ 58	T 3
F 4	14 48 38	13 ⁰ 42'17	20 ⁰ 54	12 ⁰ 43	17 ⁰ 52	16 ⁰ 15	16 ⁰ 56	15 ⁰ 22	19 ⁰ 51	21 ⁰ 44	4 ⁰ 34	1 ⁰ 45	2 ⁰ 49	29 ⁰ 30	21 ⁰ 57	F 4
S 5	14 52 35	14 ⁰ 40'15	4 ⁰ 32	14 ⁰ 54	19 ⁰ 3	17 ⁰ 0	17 ⁰ 0	15 ⁰ 27	19 ⁰ 54	21 ⁰ 43	4 ⁰ 35	1 ⁰ 46	2 ⁰ 46	29 ⁰ 37	21 ⁰ 57	S 5
S 6	14 56 31	15 ⁰ 38'11	18 ⁰ 21	17 ⁰ 4	20 ⁰ 14	17 ⁰ 45	17 ⁰ 4	15 ⁰ 32	19 ⁰ 57	21 ⁰ 43	4 ⁰ 37	1 ⁰ 48	2 ⁰ 43	29 ⁰ 44	21 ⁰ 56	S 6
M 7	15 0 28	16 ⁰ 36'05	2 ⁰ Q20	19 ⁰ 15	21 ⁰ 25	18 ⁰ 31	17 ⁰ 8	15 ⁰ 37	20 ⁰ 0	21 ⁰ 42	4 ⁰ 38	1 ⁰ 49	2 ⁰ 40	29 ⁰ 50	21 ⁰ 55	M 7
T 8	15 4 24	17 ⁰ 33'57	16 ⁰ 28	21 ⁰ 26	22 ⁰ 36	19 ⁰ 16	17 ⁰ 13	15 ⁰ 41	20 ⁰ 3	21 ⁰ 41	4 ⁰ 39	1 ⁰ R49	2 ⁰ 37	29 ⁰ 57	21 ⁰ 55	T 8
W 9	15 8 21	18 ⁰ 31'48	0 ^{II} 43	23 ⁰ 36	23 ⁰ 47	20 ⁰ 1	17 ⁰ 18	15 ⁰ 46	20 ⁰ 6	21 ⁰ 40	4 ⁰ 41	1 ⁰ 49	2 ⁰ 33	0 ^{II} 4	21 ⁰ 54	W 9
T 10	15 12 18	19 ⁰ 29'36	15 ⁰ 2	25 ⁰ 46	24 ⁰ 58	20 ⁰ 47	17 ⁰ 22	15 ⁰ 50	20 ⁰ 9	21 ⁰ 39	4 ⁰ 42	1 ⁰ 48	2 ⁰ 30	0 ⁰ 10	21 ⁰ 53	T 10
F 11	15 16 14	20 ⁰ 27'23	29 ⁰ 22	27 ⁰ 55	26 ⁰ 9	21 ⁰ 32	17 ⁰ 27	15 ⁰ 55	20 ⁰ 12	21 ⁰ 39	4 ⁰ 43	1 ⁰ 47	2 ⁰ 27	0 ⁰ 17	21 ⁰ 52	F 11
S 12	15 20 11	21 ⁰ 25'08	13 ⁰ A39	0 ^{II} 2	27 ⁰ 19	22 ⁰ 17	17 ⁰ 33	15 ⁰ 59	20 ⁰ 16	21 ⁰ 38	4 ⁰ 45	1 ⁰ 45	2 ⁰ 24	0 ⁰ 24	21 ⁰ 51	S 12
S 13	15 24 7	22 ⁰ 22'52	27 ⁰ 50	2 ⁰ 8	28 ⁰ 30	23 ⁰ 2	17 ⁰ 38	16 ⁰ 4	20 ⁰ 19	21 ⁰ 37	4 ⁰ 46	1 ⁰ 44	2 ⁰ 21	0 ⁰ 31	21 ⁰ 50	S 13
M14	15 28 4	23 ⁰ 20'34	11 ^{II} 48	4 ⁰ 13	29 ⁰ 40	23 ⁰ 47	17 ⁰ 43	16 ⁰ 8	20 ⁰ 22	21 ⁰ 37	4 ⁰ 47	1 ⁰ 44	2 ⁰ 18	0 ⁰ 37	21 ⁰ 49	M14
T 15	15 32 0	24 ⁰ 18'15	25 ⁰ 32	6 ⁰ 15	0 ⁰ 51	24 ⁰ 32	17 ⁰ 49	16 ⁰ 12	20 ⁰ 26	21 ⁰ 36	4 ⁰ 49	1 ⁰ D43	2 ⁰ 14	0 ⁰ 44	21 ⁰ 47	T 15
W16	15 35 57	25 ⁰ 15'55	8 ⁰ A59	8 ⁰ 16	2 ⁰ 1	25 ⁰ 17	17 ⁰ 55	16 ⁰ 16	20 ⁰ 29	21 ⁰ 36	4 ⁰ 50	1 ⁰ 43	2 ⁰ 11	0 ⁰ 51	21 ⁰ 46	W16
T 17	15 39 53	26 ⁰ 13'33	22 ⁰ 6	10 ⁰ 14	3 ⁰ 11	26 ⁰ 2	18 ⁰ 1	16 ⁰ 20	20 ⁰ 32	21 ⁰ 35	4 ⁰ 51	1 ⁰ 43	2 ⁰ 8	0 ⁰ 57	21 ⁰ 45	T 17
F 18	15 43 50	27 ⁰ 11'10	4 ⁰ 55	12 ⁰ 9	4 ⁰ 21	26 ⁰ 47	18 ⁰ 7	16 ⁰ 24	20 ⁰ 35	21 ⁰ 35	4 ⁰ 53	1 ⁰ 44	2 ⁰ 5	1 ⁰ 4	21 ⁰ 43	F 18
S 19	15 47 47	28 ⁰ 8'46	17 ⁰ 26	14 ⁰ 2	5 ⁰ 31	27 ⁰ 32	18 ⁰ 13	16 ⁰ 28	20 ⁰ 39	21 ⁰ 34	4 ⁰ 54	1 ⁰ 44	2 ⁰ 2	1 ⁰ 11	21 ⁰ 42	S 19
S 20	15 51 43	29 ⁰ 6'21	29 ⁰ 42	15 ⁰ 53	6 ⁰ 41	28 ⁰ 17	18 ⁰ 19	16 ⁰ 32	20 ⁰ 42	21 ⁰ 34	4 ⁰ 55	1 ⁰ 45	1 ⁰ 58	1 ⁰ 18	21 ⁰ 40	S 20
M21	15 55 40	0 ^{II} 3'55	11 ^{II} A47	17 ⁰ 40	7 ⁰ 51	29 ⁰ 2	18 ⁰ 26	16 ⁰ 36	20 ⁰ 46	21 ⁰ 33	4 ⁰ 56	1 ⁰ 45	1 ⁰ 55	1 ⁰ 24	21 ⁰ 39	M21
T 22	15 59 36	1 ⁰ 1'28	23 ⁰ 44	19 ⁰ 25	9 ⁰ 1	29 ⁰ 47	18 ⁰ 32	16 ⁰ 39	20 ⁰ 49	21 ⁰ 33	4 ⁰ 58	1 ⁰ 45	1 ⁰ 52	1 ⁰ 31	21 ⁰ 37	T 22
W23	16 3 33	1 ⁰ 59'01	5 ⁰ A37	21 ⁰ 7	10 ⁰ 10	0 ⁰ Y32	18 ⁰ 39	16 ⁰ 43	20 ⁰ 52	21 ⁰ 33	4 ⁰ 59	1 ⁰ 45	1 ⁰ 49	1 ⁰ 38	21 ⁰ 35	W23
T 24	16 7 29	2 ⁰ 56'32	17 ⁰ 32	22 ⁰ 46	11 ⁰ 20	1 ⁰ 16	18 ⁰ 46	16 ⁰ 46	20 ⁰ 56	21 ⁰ 32	5 ⁰ 0	1 ⁰ 45	1 ⁰ 46	1 ⁰ 45	21 ⁰ 33	T 24
F 25	16 11 26	3 ⁰ 54'02	29 ⁰ 33	24 ⁰ 22	12 ⁰ 29	2 ⁰ 1	18 ⁰ 53	16 ⁰ 49	20 ⁰ 59	21 ⁰ 32	5 ⁰ 1	1 ⁰ 45	1 ⁰ 43	1 ⁰ 51	21 ⁰ 31	F 25
S 26	16 15 22	4 ⁰ 51'32	11 ⁰ Y44	25 ⁰ 55	13 ⁰ 39	2 ⁰ 46	19 ⁰ 0	16 ⁰ 53	21 ⁰ 3	21 ⁰ 32	5 ⁰ 3	1 ⁰ 45	1 ⁰ 39	1 ⁰ 58	21 ⁰ 29	S 26
S 27	16 19 19	5 ⁰ 49'01	24 ⁰ 8	27 ⁰ 26	14 ⁰ 48	3 ⁰ 30	19 ⁰ 7	16 ⁰ 56	21 ⁰ 6	21 ⁰ 32	5 ⁰ 4	1 ⁰ 46	1 ⁰ 36	2 ⁰ 5	21 ⁰ 27	S 27
M28	16 23 16	6 ⁰ 46'29	6 ⁰ A49	28 ⁰ 53	15 ⁰ 57	4 ⁰ 15	19 ⁰ 14	16 ⁰ 59	21 ⁰ 10	21 ⁰ 32	5 ⁰ 5	1 ⁰ 46	1 ⁰ 33	2 ⁰ 11	21 ⁰ 25	M28
T 29	16 27 12	7 ⁰ 43'56	19 ⁰ 48	0 ⁰ 517	17 ⁰ 6	4 ⁰ 59	19 ⁰ 22	17 ⁰ 2	21 ⁰ 13	21 ⁰ 31	5 ⁰ 6	1 ⁰ 47	1 ⁰ 30	2 ⁰ 18	21 ⁰ 23	T 29
W30	16 31 9	8 ⁰ 41'23	3 ^{II} 6	1 ⁰ 38	18 ⁰ 15	5 ⁰ 44	19 ⁰ 30	17 ⁰ 5	21 ⁰ 17	21 ⁰ 31	5 ⁰ 7	1 ⁰ R47	1 ⁰ 27	2 ⁰ 25	21 ⁰ 21	W30
T 31	16 35 5	9 ⁰ II38'49	16 ⁰ II42	2 ⁰ 56	19 ⁰ 24	6 ⁰ Y28	19 ⁰ Q37	17 ⁰ A8	21 ⁰ II20	21 ⁰ II31	5 ⁰ 8	1 ⁰ II46	1 ⁰ II23	2 ⁰ A32	21 ⁰ II18	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	15n 6	13n30	1s50	13n 3	0s38	24n 2	1n29	7s44	1s32	16n52	1n 4	7s33	1s49	23n13	0n 7	4n29	1n19	1s59	15s56	20n34	20n48	16s36	14s42	7n 5					
W 2	15 24	18 13	0 41	13 54	0 28	24 13	1 31	7 27	1 32	16 51	1 4	7 31	1 49	23 13	0 7	4 29	1 19	1 59	15 56	20 33	20 47	16 33	14 41	7 6					
T 3	15 42	22 7	0n32	14 45	0 18	24 23	1 34	7 9	1 33	16 50	1 4	7 30	1 49	23 13	0 7	4 29	1 19	1 58	15 56	20 33	20 47	16 31	14 41	7 7					
F 4	15 59	24 54	1 44	15 35	0 7	24 32	1 36	6 52	1 33	16 48	1 4	7 28	1 50	23 13	0 7	4 30	1 19	1 58	15 56	20 33	20 46	16 29	14 40	7 7					
S 5	16 16	26 16	2 51	16 24	0n 3	24 40	1 38	6 35	1 34	16 47	1 4	7 26	1 50	23 14	0 7	4 30	1 19	1 57	15 56	20 34	20 45	16 26	14 40	7 8					
S 6	16 33	26 1	3 50	17 11	0 14	24 48	1 40	6 17	1 34	16 46	1 3	7 24	1 50	23 14	0 7	4 30	1 19	1 57	15 56	20 34	20 45	16 24	14 39	7 8					
M 7	16 50	24 9	4 35	17 58	0 24	24 55	1 43	6 0	1 34	16 44	1 3	7 23	1 50	23 14	0 7	4 31	1 19	1 57	15 56	20 34	20 44	16 21	14 39	7 9					
T 8	17 7	20 46	5 5	18 43	0 35	25 1	1 45	5 43	1 35	16 43	1 3	7 21	1 50	23 14	0 7	4 31	1 19	1 56	15 56	20 34	20 44	16 19	14 38	7 9					
W 9	17 23	16 9	5 16	19 26	0 45	25 7	1 47	5 25	1 35	16 41	1 3	7 19	1 51	23 15	0 7	4 31	1 19	1 56	15 56	20 34	20 43	16 17	14 38	7 10					
T 10	17 39	10 38	5 7	20 8	0 55	25 12	1 49	5 8	1 35	16 40	1 3	7 18	1 51	23 15	0 7	4 32	1 19	1 56	15 56	20 34	20 42	16 14	14 37	7 10					
F 11	17 54	4 32	4 40	20 47	1 4	25 16	1 50	4 50	1 36	16 38	1 3	7 16	1 51	23 15	0 7	4 32	1 19	1 55	15 56	20 34	20 42	16 12	14 37	7 11					
S 12	18 9	1s47	3 55	21 24	1 14	25 20	1 52	4 32	1 36	16 36	1 3	7 15	1 51	23 15	0 7	4 32	1 19	1 55	15 56	20 33	20 41	16 10	14 37	7 11					
S 13	18 24	7 58	2 57	21 59	1 22	25 23	1 54	4 15	1 37	16 35	1 3	7 13	1 52	23 16	0 8	4 32	1 19	1 54	15 56	20 33	20 40	16 7	14 36	7 12					
M14	18 39	13 42	1 48	22 31	1 30	25 25	1 56	3 57	1 37	16 33	1 3	7 12	1 52	23 16	0 8	4 32	1 19	1 54	15 56	20 33	20 40	16 5	14 36	7 12					
T 15	18 53	18 38	0 34	23 0	1 38	25 27	1 57	3 40	1 37	16 31	1 2	7 10	1 52	23 16	0 8	4 33	1 19	1 54	15 57	20 33	20 39	16 2	14 36	7 13					
W16	19 7	22 30	0s40	23 27	1 45	25 27	1 59	3 22	1 37	16 29	1 2	7 9	1 52	23 16	0 8	4 33	1 19	1 54	15 57	20 33	20 39	16 0	14 35	7 14					
T 17	19 21	25 6	1 51	23 51	1 51	25 27	2 0	3 4	1 38	16 27	1 2	7 8	1 52	23 17	0 8	4 33	1 19	1 53	15 57	20 33	20 38	15 58	14 35	7 14					
F 18	19 34	26 18	2 54	24 13	1 56	25 27	2 2	2 47	1 38	16 25	1 2	7 6	1 53	23 17	0 8	4 33	1 19	1 53	15 57	20 33	20 37	15 55	14 35	7 15					
S 19	19 47	26 6	3 47	24 32	2 1	25 25	2 3	2 29	1 38	16 23	1 2	7 5	1 53	23 17	0 8	4 33	1 19	1 53	15 57	20 33	20 37	15 53	14 35	7 15					
S 20	20 0	24 38	4 29	24 49	2 5	25 23	2 4	2 12	1 39	16 21	1 2	7 4	1 53	23 17	0 8	4 33	1 19	1 52	15 57	20 33	20 36	15 50	14 34	7 16					
M21	20 12	22 3	4 58	25 3	2 8	25 21	2 5	1 54	1 39	16 19	1 2	7 3	1 53	23 18	0 8	4 34	1 19	1 52	15 57	20 33	20 35	15 48	14 34	7 16					
T 22	20 24	18 34	5 14	25 14	2 11	25 17	2 6	1 36	1 39	16 17	1 2	7 1	1 54	23 18	0 8	4 34	1 19	1 52	15 57	20 33	20 35	15 45	14 34	7 17					
W23	20 36	14 22	5 16	25 23	2 12	25 13	2 7	1 19	1 39	16 15	1 2	7 0	1 54	23 18	0 8	4 34	1 19	1 51	15 57	20 33	20 34	15 43	14 34	7 17					
T 24	20 48	9 37	5 5	25 30	2 13	25 8	2 8	1 1	1 40	16 12	1 1	6 59	1 54	23 18	0 8	4 34	1 19	1 51	15 58	20 33	20 34	15 41	14 33	7 17					
F 25	20 58	4 28	4 40	25 35	2 13	25 3	2 9	0 43	1 40	16 10	1 1	6 58	1 54	23 19	0 8	4 34	1 19	1 51	15 58	20 33	20 33	15 38	14 33	7 18					
S 26	21 9	0n55	4 3	25 38	2 12	24 56	2 10	0 26	1 40	16 8	1 1	6 57	1 54	23 19	0 8	4 34	1 19	1 51	15 58	20 33	20 32	15 36	14 33	7 18					
S 27	21 19	6 23	3 14	25 39	2 11	24 50	2 10	0 8	1 40	16 5	1 1	6 56	1 55	23 19	0 8	4 34	1 19	1 50	15 58	20 34	20 32	15 33	14 33	7 19					
M28	21 29	11 43	2 14	25 38	2 8	24 42	2 11	0n 9	1 41	16 3	1 1	6 55	1 55	23 19	0 8	4 34	1 18	1 50	15 58	20 34	20 31	15 31	14 33	7 19					
T 29	21 39	16 40	1 6	25 35	2 5	24 34	2 11	0 27	1 41	16 1	1 1	6 54	1 55	23 20	0 8	4 34	1 18	1 50	15 58	20 34	20 30	15 28	14 33	7 20					
W30	21 48	20 57	0n 7	25 30	2 2	24 25	2 12	0 44	1 41	15 58	1 1	6 53	1 55	23 20	0 8	4 34	1 18	1 50	15 58	20 34	20 30	15 26	14 33	7 20					
T 31	21n57	24n11	1n22	25n24	1n57	24n16	2n12	1n 2	1s41	15n56	1n 1	6s52	1s56	23n20	0n 8	4n34	1n18	1s50	15s59	20n34	20n29	15s23	14s33	7n21					

ASTRODIENST EPHEMERIS for the year 1612
geocentric

JUNE 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	16 39 2	10 ^{II} 36°13	0 [☾] 34	4 [♊] 10	20 [♋] 33	7 [♌] 12	19 [♍] 45	17 [♎] 10	21 [♏] 24	21°R31	5 [♐] 10	1°R46	1 [♑] 20	2 [♒] 38	21°R16	F 1
S 2	16 42 58	11°33'37	14°39	5°22	21°41	7°57	19°53	17°13	21°27	21°D31	5°11	1 [♒] 45	1°17	2°45	21° [♓] 14	S 2
S 3	16 46 55	12°31'00	28°53	6°30	22°50	8°41	20° 1	17°16	21°31	21 [♓] 31	5°12	1°44	1°14	2°52	21°11	S 3
M 4	16 50 52	13°28'22	13 [♊] 11	7°35	23°58	9°25	20°10	17°18	21°34	21°31	5°13	1°42	1°11	2°59	21° 9	M 4
T 5	16 54 48	14°25'43	27°31	8°36	25° 6	10° 9	20°18	17°20	21°38	21°31	5°14	1°41	1° 8	3° 5	21° 6	T 5
W 6	16 58 45	15°23'02	11 [♊] 48	9°34	26°14	10°53	20°26	17°23	21°42	21°32	5°15	1°D41	1° 4	3°12	21° 3	W 6
T 7	17 2 41	16°20'21	25°59	10°28	27°22	11°37	20°35	17°25	21°45	21°32	5°16	1°41	1° 1	3°19	21° 1	T 7
F 8	17 6 38	17°17'38	10 [♊] 2	11°19	28°30	12°21	20°44	17°27	21°49	21°32	5°17	1°42	0°58	3°25	20°58	F 8
S 9	17 10 34	18°14'55	23°56	12° 5	29°38	13° 5	20°53	17°29	21°52	21°32	5°18	1°43	0°55	3°32	20°55	S 9
S 10	17 14 31	19°12'11	7 [♊] 40	12°48	0 [♋] 45	13°49	21° 1	17°31	21°56	21°32	5°19	1°44	0°52	3°39	20°52	S 10
M 11	17 18 27	20° 9'26	21°12	13°27	1°53	14°32	21°10	17°33	21°59	21°33	5°21	1°45	0°49	3°46	20°49	M 11
T 12	17 22 24	21° 6'40	4 [♊] 31	14° 2	3° 0	15°16	21°20	17°34	22° 3	21°33	5°22	1°R45	0°45	3°52	20°46	T 12
W 13	17 26 21	22° 3'54	17°36	14°33	4° 7	16° 0	21°29	17°36	22° 7	21°33	5°23	1°45	0°42	3°59	20°43	W 13
T 14	17 30 17	23° 1'08	0 [♋] 38	14°59	5°14	16°43	21°38	17°37	22°10	21°34	5°24	1°43	0°39	4° 6	20°40	T 14
F 15	17 34 14	23°58'21	13° 6	15°21	6°21	17°27	21°48	17°39	22°14	21°34	5°24	1°40	0°36	4°12	20°37	F 15
S 16	17 38 10	24°55'33	25°30	15°39	7°27	18°10	21°57	17°40	22°17	21°34	5°25	1°37	0°33	4°19	20°34	S 16
S 17	17 42 7	25°52'46	7 [♊] 43	15°52	8°34	18°53	22° 7	17°41	22°21	21°35	5°26	1°33	0°30	4°26	20°31	S 17
M 18	17 46 3	26°49'58	19°46	16° 0	9°40	19°36	22°16	17°42	22°25	21°35	5°27	1°29	0°26	4°33	20°28	M 18
T 19	17 50 0	27°47'10	1 [♋] 42	16°R 4	10°46	20°20	22°26	17°43	22°28	21°36	5°28	1°26	0°23	4°39	20°25	T 19
W 20	17 53 56	28°44'22	13°35	16° 4	11°52	21° 3	22°36	17°44	22°32	21°37	5°29	1°24	0°20	4°46	20°22	W 20
T 21	17 57 53	29°41'34	25°29	15°59	12°58	21°46	22°46	17°45	22°35	21°37	5°30	1°D23	0°17	4°53	20°18	T 21
F 22	18 1 50	0 [♋] 38'46	7 [♊] 29	15°49	14° 4	22°29	22°56	17°46	22°39	21°38	5°31	1°23	0°14	5° 0	20°15	F 22
S 23	18 5 46	1°35'58	19°39	15°35	15° 9	23°11	23° 6	17°46	22°42	21°38	5°32	1°24	0°10	5° 6	20°12	S 23
S 24	18 9 43	2°33'10	2 [♋] 4	15°17	16°14	23°54	23°17	17°47	22°46	21°39	5°33	1°25	0° 7	5°13	20° 8	S 24
M 25	18 13 39	3°30'22	14°49	14°55	17°19	24°37	23°27	17°47	22°49	21°40	5°33	1°27	0° 4	5°20	20° 5	M 25
T 26	18 17 36	4°27'35	27°55	14°29	18°24	25°19	23°37	17°48	22°53	21°41	5°34	1°R28	0° 1	5°26	20° 1	T 26
W 27	18 21 32	5°24'48	11 [♊] 25	14° 0	19°29	26° 2	23°48	17°48	22°56	21°41	5°35	1°28	29 [♋] 58	5°33	19°58	W 27
T 28	18 25 29	6°22'00	25°19	13°29	20°33	26°44	23°58	17°48	23° 0	21°42	5°36	1°26	29°55	5°40	19°55	T 28
F 29	18 29 25	7°19'13	9 [♋] 34	12°54	21°37	27°27	24° 9	17°R48	23° 4	21°43	5°36	1°22	29°51	5°47	19°51	F 29
S 30	18 33 22	8° [♋] 16'26	24 [♋] 6	12° [♋] 19	22 [♋] 41	28 [♊] 9	24 [♋] 20	17 [♋] 48	23 [♊] 7	21 [♊] 44	5 [♋] 37	1 [♊] 17	29 [♋] 48	5 [♋] 53	19° [♋] 48	S 30

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	22n 5	26n 2	2n33	25n17	1n51	24n 6	2n12	1n19	1s41	15n53	1n 1	6s51	1s56	23n20	0n 8	4n34	1n18	1s49	15s59	20n34	20n28	15s21	14s32	7n21											
S 2	22 13	26 15	3 35	25 8	1 45	23 55	2 12	1 36	1 41	15 50	1 1	6 50	1 56	23 21	0 8	4 34	1 18	1 49	15 59	20 33	20 28	15 18	14 32	7 21											
S 3	22 21	24 45	4 26	24 58	1 38	23 44	2 12	1 54	1 41	15 48	1 0	6 50	1 56	23 21	0 8	4 34	1 18	1 49	15 59	20 33	20 27	15 16	14 32	7 22											
M 4	22 28	21 40	5 0	24 47	1 30	23 32	2 12	2 11	1 42	15 45	1 0	6 49	1 57	23 21	0 8	4 34	1 18	1 49	15 59	20 33	20 26	15 13	14 32	7 22											
T 5	22 35	17 17	5 15	24 34	1 22	23 19	2 12	2 28	1 42	15 42	1 0	6 48	1 57	23 21	0 8	4 34	1 18	1 49	15 59	20 33	20 26	15 11	14 32	7 23											
W 6	22 41	11 56	5 11	24 21	1 13	23 6	2 11	2 45	1 42	15 39	1 0	6 48	1 57	23 21	0 8	4 34	1 18	1 48	16 0	20 33	20 25	15 8	14 32	7 23											
T 7	22 47	6 0	4 48	24 7	1 3	22 52	2 11	3 3	1 42	15 37	1 0	6 47	1 57	23 22	0 8	4 34	1 18	1 48	16 0	20 33	20 24	15 6	14 32	7 23											
F 8	22 53	0s11	4 8	23 52	0 52	22 38	2 10	3 20	1 42	15 34	1 0	6 46	1 58	23 22	0 8	4 34	1 18	1 48	16 0	20 33	20 24	15 3	14 32	7 24											
S 9	22 58	6 18	3 14	23 37	0 41	22 23	2 10	3 37	1 42	15 31	1 0	6 46	1 58	23 22	0 8	4 34	1 18	1 48	16 0	20 33	20 23	15 1	14 32	7 24											
S 10	23 3	12 4	2 9	23 21	0 29	22 8	2 9	3 54	1 42	15 28	1 0	6 45	1 58	23 22	0 8	4 33	1 18	1 48	16 0	20 33	20 22	14 58	14 33	7 24											
M11	23 7	17 10	0 58	23 5	0 16	21 52	2 8	4 10	1 42	15 25	1 0	6 45	1 58	23 23	0 8	4 33	1 18	1 48	16 1	20 33	20 22	14 56	14 33	7 25											
T 12	23 12	21 20	0s15	22 48	0 3	21 35	2 7	4 27	1 42	15 22	1 0	6 45	1 59	23 23	0 8	4 33	1 18	1 48	16 1	20 33	20 21	14 53	14 33	7 25											
W13	23 15	24 20	1 26	22 31	0s11	21 18	2 6	4 44	1 42	15 19	1 0	6 44	1 59	23 23	0 8	4 33	1 18	1 47	16 1	20 33	20 21	14 51	14 33	7 25											
T 14	23 18	26 1	2 31	22 14	0 25	21 1	2 5	5 1	1 42	15 16	1 0	6 44	1 59	23 23	0 8	4 33	1 18	1 47	16 1	20 33	20 20	14 48	14 33	7 26											
F 15	23 21	26 18	3 28	21 57	0 39	20 43	2 3	5 17	1 42	15 13	0 59	6 43	2 0	23 23	0 8	4 33	1 18	1 47	16 1	20 32	20 19	14 46	14 33	7 26											
S 16	23 24	25 14	4 14	21 40	0 55	20 24	2 2	5 34	1 42	15 9	0 59	6 43	2 0	23 24	0 8	4 32	1 18	1 47	16 2	20 32	20 19	14 43	14 33	7 26											
S 17	23 26	23 0	4 47	21 23	1 10	20 6	2 0	5 50	1 42	15 6	0 59	6 43	2 0	23 24	0 8	4 32	1 18	1 47	16 2	20 31	20 18	14 41	14 33	7 27											
M18	23 27	19 46	5 7	21 6	1 26	19 46	1 58	6 7	1 42	15 3	0 59	6 43	2 0	23 24	0 8	4 32	1 18	1 47	16 2	20 30	20 17	14 38	14 34	7 27											
T 19	23 28	15 46	5 13	20 50	1 42	19 26	1 57	6 23	1 42	15 0	0 59	6 43	2 1	23 24	0 8	4 32	1 18	1 47	16 2	20 30	20 17	14 36	14 34	7 27											
W20	23 29	11 10	5 6	20 34	1 58	19 6	1 55	6 39	1 42	14 56	0 59	6 43	2 1	23 25	0 8	4 31	1 18	1 47	16 3	20 29	20 16	14 33	14 34	7 27											
T 21	23 29	6 10	4 46	20 19	2 14	18 45	1 53	6 55	1 42	14 53	0 59	6 42	2 1	23 25	0 8	4 31	1 18	1 47	16 3	20 29	20 15	14 30	14 34	7 28											
F 22	23 29	0 54	4 13	20 4	2 30	18 24	1 50	7 11	1 42	14 50	0 59	6 42	2 1	23 25	0 8	4 31	1 18	1 47	16 3	20 29	20 15	14 28	14 35	7 28											
S 23	23 29	4n29	3 29	19 50	2 46	18 3	1 48	7 27	1 42	14 46	0 59	6 42	2 2	23 25	0 8	4 31	1 18	1 47	16 3	20 29	20 14	14 25	14 35	7 28											
S 24	23 28	9 49	2 34	19 36	3 2	17 41	1 46	7 43	1 42	14 43	0 59	6 42	2 2	23 25	0 8	4 30	1 18	1 47	16 4	20 29	20 13	14 23	14 35	7 28											
M25	23 27	14 53	1 30	19 24	3 17	17 19	1 43	7 59	1 42	14 39	0 59	6 43	2 2	23 26	0 8	4 30	1 18	1 47	16 4	20 30	20 13	14 20	14 35	7 28											
T 26	23 25	19 25	0 19	19 12	3 31	16 56	1 40	8 14	1 42	14 36	0 59	6 43	2 2	23 26	0 8	4 30	1 17	1 47	16 4	20 30	20 12	14 18	14 36	7 29											
W27	23 23	23 5	0n54	19 2	3 45	16 33	1 38	8 30	1 41	14 32	0 59	6 43	2 3	23 26	0 8	4 29	1 17	1 47	16 4	20 30	20 11	14 15	14 36	7 29											
T 28	23 20	25 31	2 6	18 52	3 57	16 10	1 35	8 45	1 41	14 29	0 59	6 43	2 3	23 26	0 8	4 29	1 17	1 47	16 5	20 29	20 10	14 12	14 36	7 29											
F 29	23 17	26 21	3 12	18 44	4 9	15 46	1 32	9 1	1 41	14 25	0 59	6 43	2 3	23 26	0 8	4 29	1 17	1 47	16 5	20 29	20 10	14 10	14 37	7 29											
S 30	23n14	25n24	4n 7	18n37	4s19	15n22	1n28	9n16	1s41	14n22	0n58	6s44	2s 3	23n27	0n 8	4n28	1n17	1s47	16s 5	20n28	20n 9	14s 7	14s37	7n29											

ASTRODIENST EPHEMERIS for the year 1612

geocentric

JULY 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 37 19	9 ⁵ 13'39	8 ⁰ 47	11°R42	23 ⁰ 45	28 ⁰ 51	24 ⁰ 31	17°R48	23 ⁰ 11	21 ⁰ 45	5 ⁰ 38	1°R12	29 ⁰ 45	6 ⁰ 0	19°R44	S 1
M 2	18 41 15	10°10'52	23°31	11 ⁰ 4	24°48	29°33	24°41	17°47	23°14	21°46	5°39	1 ⁰ 6	29°42	6°7	19 ⁰ 40	M 2
T 3	18 45 12	11°8'04	8 ⁰ 10	10°26	25°52	0 ⁰ 15	24°52	17°47	23°17	21°47	5°39	1°2	29°39	6°14	19°37	T 3
W 4	18 49 8	12°5'17	22°38	9°49	26°54	0°57	25°3	17°46	23°21	21°48	5°40	0°59	29°36	6°20	19°33	W 4
T 5	18 53 5	13°2'29	6 ⁰ 52	9°13	27°57	1°38	25°15	17°46	23°24	21°49	5°41	0°D57	29°32	6°27	19°30	T 5
F 6	18 57 1	13°59'41	20°50	8°40	29°0	2°20	25°26	17°45	23°28	21°50	5°41	0°57	29°29	6°34	19°26	F 6
S 7	19 0 58	14°56'53	4 ⁰ 30	8°9	0 ⁰ 2	3°1	25°37	17°44	23°31	21°51	5°42	0°58	29°26	6°40	19°23	S 7
S 8	19 4 54	15°54'06	17°55	7°40	1°4	3°43	25°48	17°43	23°35	21°52	5°42	0°59	29°23	6°47	19°19	S 8
M 9	19 8 51	16°51'18	1 ⁰ 5	7°16	2°5	4°24	26°0	17°42	23°38	21°53	5°43	1°R0	29°20	6°54	19°15	M 9
T 10	19 12 48	17°48'31	14°2	6°56	3°7	5°5	26°11	17°41	23°41	21°54	5°43	0°59	29°16	7°1	19°12	T 10
W 11	19 16 44	18°45'44	26°47	6°40	4°7	5°46	26°23	17°40	23°45	21°56	5°44	0°56	29°13	7°7	19°8	W 11
T 12	19 20 41	19°42'57	9 ⁰ 31	6°29	5°8	6°27	26°34	17°39	23°48	21°57	5°45	0°51	29°10	7°14	19°5	T 12
F 13	19 24 37	20°40'10	21°44	6°23	6°8	7°8	26°46	17°37	23°51	21°58	5°45	0°44	29°7	7°21	19°1	F 13
S 14	19 28 34	21°37'24	3 ⁰ 59	6°D23	7°8	7°49	26°57	17°36	23°54	21°59	5°45	0°36	29°4	7°27	18°57	S 14
S 15	19 32 30	22°34'39	16°5	6°28	8°8	8°29	27°9	17°34	23°58	22°1	5°46	0°26	29°1	7°34	18°54	S 15
M 16	19 36 27	23°31'54	28°4	6°39	9°7	9°10	27°21	17°33	24°1	22°2	5°46	0°17	28°57	7°41	18°50	M 16
T 17	19 40 24	24°29'10	9 ⁰ 58	6°56	10°6	9°50	27°33	17°31	24°4	22°3	5°47	0°8	28°54	7°48	18°47	T 17
W 18	19 44 20	25°26'27	21°49	7°18	11°4	10°31	27°45	17°29	24°7	22°5	5°47	0°1	28°51	7°54	18°43	W 18
T 19	19 48 17	26°23'44	3 ⁰ 42	7°47	12°3	11°11	27°56	17°27	24°11	22°6	5°47	29 ⁰ 56	28°48	8°1	18°39	T 19
F 20	19 52 13	27°21'03	15°40	8°21	13°0	11°51	28°8	17°25	24°14	22°8	5°48	29°53	28°45	8°8	18°36	F 20
S 21	19 56 10	28°18'22	27°47	9°1	13°57	12°31	28°21	17°23	24°17	22°9	5°48	29°D53	28°41	8°15	18°32	S 21
S 22	20 0 6	29°15'42	10 ⁰ 10	9°47	14°54	13°10	28°33	17°21	24°20	22°10	5°48	29°53	28°38	8°21	18°29	S 22
M 23	20 4 3	0 ⁰ 13'04	22°52	10°39	15°51	13°50	28°45	17°18	24°23	22°12	5°49	29°54	28°35	8°28	18°25	M 23
T 24	20 7 59	1°10'27	5 ⁰ 58	11°37	16°46	14°29	28°57	17°16	24°26	22°14	5°49	29°R54	28°32	8°35	18°22	T 24
W 25	20 11 56	2°7'50	19°31	12°39	17°42	15°9	29°9	17°14	24°29	22°15	5°49	29°52	28°29	8°41	18°18	W 25
T 26	20 15 53	3°5'15	3 ⁰ 33	13°48	18°37	15°48	29°21	17°11	24°32	22°17	5°49	29°48	28°26	8°48	18°15	T 26
F 27	20 19 49	4°2'41	18°1	15°2	19°31	16°27	29°34	17°8	24°35	22°18	5°50	29°42	28°22	8°55	18°11	F 27
S 28	20 23 46	5°0'08	2 ⁰ 50	16°21	20°25	17°6	29°46	17°6	24°38	22°20	5°50	29°34	28°19	9°2	18°8	S 28
S 29	20 27 42	5°57'36	17°53	17°44	21°18	17°44	29°58	17°3	24°41	22°22	5°50	29°24	28°16	9°8	18°5	S 29
M 30	20 31 39	6°55'05	3 ⁰ 20	19°13	22°11	18°23	0 ⁰ 11	17°0	24°44	22°23	5°50	29°15	28°13	9°15	18°1	M 30
T 31	20 35 35	7 ⁰ 52'34	18 ⁰ 20	20°46	23°23	19°8	0 ⁰ 23	16°57	24°47	22°25	5°50	29°8	28°10	9°22	17°58	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	23n10	22n42	4n47	18n31	4s28	14n58	1n25	9n31	1s41	14n18	0n58	6s44	2s 4	23n27	0n 8	4n28	1n17	1s47	16s 6	20n27	20n 8	14s 5	14s37	7n29			
M 2	23 6	18 32	5 7	18 27	4 36	14 34	1 22	9 46	1 41	14 14	0 58	6 44	2 4	23 27	0 8	4 27	1 17	1 47	16 6	20 26	20 8	14 2	14 38	7 30			
T 3	23 1	13 16	5 7	18 24	4 42	14 9	1 18	10 1	1 40	14 10	0 58	6 45	2 4	23 27	0 8	4 27	1 17	1 47	16 6	20 25	20 7	13 59	14 38	7 30			
W 4	22 56	7 20	4 48	18 22	4 46	13 44	1 14	10 16	1 40	14 7	0 58	6 45	2 4	23 27	0 8	4 27	1 17	1 47	16 6	20 24	20 6	13 57	14 38	7 30			
T 5	22 51	1 7	4 11	18 22	4 49	13 19	1 10	10 30	1 40	14 3	0 58	6 46	2 5	23 28	0 8	4 26	1 17	1 47	16 7	20 24	20 6	13 54	14 39	7 30			
F 6	22 45	5s 3	3 20	18 23	4 50	12 53	1 6	10 45	1 40	13 59	0 58	6 46	2 5	23 28	0 8	4 26	1 17	1 47	16 7	20 24	20 5	13 52	14 39	7 30			
S 7	22 39	10 53	2 18	18 25	4 50	12 27	1 2	10 59	1 39	13 55	0 58	6 47	2 5	23 28	0 8	4 25	1 17	1 47	16 7	20 24	20 4	13 49	14 40	7 30			
S 8	22 32	16 5	1 10	18 28	4 48	12 1	0 58	11 14	1 39	13 51	0 58	6 47	2 5	23 28	0 8	4 25	1 17	1 47	16 7	20 24	20 4	13 46	14 40	7 30			
M 9	22 26	20 26	0s 0	18 33	4 45	11 35	0 54	11 28	1 39	13 47	0 58	6 48	2 6	23 28	0 8	4 24	1 17	1 47	16 8	20 24	20 3	13 44	14 41	7 30			
T 10	22 18	23 41	1 10	18 39	4 40	11 9	0 49	11 42	1 38	13 44	0 58	6 48	2 6	23 28	0 8	4 24	1 17	1 48	16 8	20 24	20 2	13 41	14 41	7 30			
W 11	22 10	25 41	2 14	18 47	4 33	10 42	0 44	11 56	1 38	13 40	0 58	6 49	2 6	23 29	0 8	4 23	1 17	1 48	16 8	20 23	20 2	13 38	14 41	7 30			
T 12	22 2	26 20	3 11	18 55	4 25	10 16	0 40	12 10	1 38	13 36	0 58	6 50	2 6	23 29	0 8	4 23	1 17	1 48	16 9	20 22	20 1	13 36	14 42	7 30			
F 13	21 54	25 39	3 58	19 4	4 17	9 49	0 35	12 23	1 38	13 32	0 58	6 51	2 7	23 29	0 8	4 22	1 17	1 48	16 9	20 21	20 0	13 33	14 42	7 30			
S 14	21 45	23 44	4 33	19 14	4 7	9 22	0 30	12 37	1 37	13 28	0 58	6 51	2 7	23 29	0 8	4 22	1 17	1 48	16 9	20 19	20 0	13 30	14 43	7 30			
S 15	21 36	20 45	4 56	19 25	3 56	8 55	0 25	12 50	1 37	13 24	0 58	6 52	2 7	23 29	0 8	4 21	1 17	1 48	16 10	20 17	19 59	13 28	14 43	7 30			
M 16	21 26	16 56	5 5	19 36	3 44	8 28	0 19	13 3	1 36	13 19	0 58	6 53	2 7	23 29	0 8	4 21	1 17	1 48	16 10	20 15	19 58	13 25	14 44	7 30			
T 17	21 16	12 29	5 1	19 48	3 31	8 1	0 14	13 17	1 36	13 15	0 58	6 54	2 8	23 30	0 8	4 20	1 17	1 49	16 10	20 13	19 57	13 22	14 44	7 30			
W 18	21 6	7 36	4 44	20 0	3 18	7 33	0 8	13 29	1 36	13 11	0 58	6 55	2 8	23 30	0 8	4 19	1 17	1 49	16 10	20 12	19 57	13 20	14 45	7 30			
T 19	20 55	2 25	4 14	20 12	3 4	7 6	0 2	13 42	1 35	13 7	0 58	6 56	2 8	23 30	0 8	4 19	1 17	1 49	16 11	20 11	19 56	13 17	14 45	7 30			
F 20	20 44	2n53	3 34	20 24	2 50	6 38	0s 3	13 55	1 35	13 3	0 58	6 57	2 8	23 30	0 8	4 18	1 17	1 49	16 11	20 10	19 55	13 14	14 46	7 30			
S 21	20 33	8 10	2 43	20 36	2 35	6 11	0 9	14 8	1 34	12 59	0 58	6 58	2 9	23 30	0 8	4 18	1 17	1 49	16 11	20 10	19 55	13 12	14 47	7 30			
S 22	20 21	13 16	1 43	20 48	2 20	5 43	0 15	14 20	1 34	12 54	0 58	6 59	2 9	23 30	0 8	4 17	1 17	1 49	16 12	20 10	19 54	13 9	14 47	7 30			
M 23	20 9	17 55	0 38	20 59	2 5	5 16	0 22	14 32	1 33	12 50	0 58	7 0	2 9	23 30	0 8	4 16	1 17	1 50	16 12	20 10	19 53	13 6	14 48	7 30			
T 24	19 56	21 53	0n32	21 9	1 50	4 48	0 28	14 44	1 33	12 46	0 58	7 1	2 9	23 31	0 8	4 16	1 17	1 50	16 12	20 10	19 53	13 4	14 48	7 29			
W 25	19 44	24 47	1 43	21 19	1 35	4 20	0 35	14 56	1 32	12 42	0 58	7 3	2 10	23 31	0 8	4 15	1 17	1 50	16 13	20 10	19 52	13 1	14 49	7 29			
T 26	19 31	26 16	2 49	21 27	1 20	3 53	0 41	15 8	1 32	12 37	0 58	7 4	2 10	23 31	0 8	4 15	1 17	1 50	16 13	20 9	19 51	12 58	14 49	7 29			
F 27	19 17	26 1	3 47	21 34	1 5	3 25	0 48	15 20	1 31	12 33	0 58	7 5	2 10	23 31	0 8	4 14	1 17	1 51	16 13	20 8	19 50	12 56	14 50	7 29			
S 28	19 3	23 57	4 31	21 39	0 50	2 58	0 55	15 31	1 31	12 29	0 58	7 6	2 10	23 31	0 8	4 13	1 17	1 51	16 14	20 6	19 50	12 53	14 51	7 29			
S 29	18 49	20 12	4 56	21 43	0 36	2 30	1 2	15 43	1 30	12 24	0 58	7 8	2 10	23 31	0 8	4 13	1 17	1 51	16 14	20 4	19 49	12 50	14 51	7 29			
M 30	18 35	15 7	5 2	21 45	0 22	2 3	1 9	15 54	1 30	12 20	0 58	7 9	2 11	23 31	0 8	4 12	1 16	1 51	16 14	20 2	19 48	12 48	14 52	7 28			
T 31	18n20	9n 8	4n46	21n44	0s 9	1n35	1s17	16n 5	1s29	12n15	0n58	7s10	2s11	23n32	0n 8	4n11	1n16	1s52	16s15	20n 0	19n48	12s45	14s52	7n28			

ASTRODIENST EPHEMERIS for the year 1612
geocentric

AUGUST 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 39 32	8♂50°04	2♂46	22♂24	23♂55	19♂40	0♂36	16°R54	24♂49	22♂27	5♂50	29°R 0	28♂ 7	9♂28	17°R55	W 1
T 2	20 43 28	9°47'35	17°11	24° 5	24°46	20°18	0°48	16♂51	24°52	22°28	5°50	28♂56	28° 3	9°35	17♂52	T 2
F 3	20 47 25	10°45'07	1♂13	25°50	25°36	20°56	1° 1	16°48	24°55	22°30	5°50	28°54	28° 0	9°42	17°48	F 3
S 4	20 51 22	11°42'40	14°51	27°39	26°26	21°33	1°14	16°44	24°58	22°32	5°51	28°D53	27°57	9°49	17°45	S 4
S 5	20 55 18	12°40'13	28° 7	29°30	27°14	22°11	1°26	16°41	25° 0	22°34	5°R51	28°R54	27°54	9°55	17°42	S 5
M 6	20 59 15	13°37'48	11♂ 5	1♂24	28° 3	22°48	1°39	16°37	25° 3	22°35	5°51	28°53	27°51	10° 2	17°39	M 6
T 7	21 3 11	14°35'23	23°46	3°20	28°50	23°26	1°52	16°34	25° 6	22°37	5°50	28°51	27°47	10° 9	17°36	T 7
W 8	21 7 8	15°33'00	6♂16	5°18	29°36	24° 3	2° 4	16°30	25° 8	22°39	5°50	28°46	27°44	10°16	17°33	W 8
T 9	21 11 4	16°30'37	18°35	7°17	0♂22	24°40	2°17	16°27	25°11	22°41	5°50	28°38	27°41	10°22	17°30	T 9
F 10	21 15 1	17°28'16	0♂46	9°18	1° 7	25°16	2°30	16°23	25°13	22°43	5°50	28°28	27°38	10°29	17°27	F 10
S 11	21 18 57	18°25'56	12°50	11°19	1°51	25°53	2°43	16°19	25°16	22°45	5°50	28°16	27°35	10°36	17°24	S 11
S 12	21 22 54	19°23'37	24°49	13°20	2°34	26°29	2°55	16°16	25°18	22°47	5°50	28° 2	27°32	10°42	17°22	S 12
M13	21 26 51	20°21'20	6♂44	15°22	3°16	27° 5	3° 8	16°12	25°21	22°49	5°50	27°48	27°28	10°49	17°19	M13
T 14	21 30 47	21°19'04	18°36	17°23	3°57	27°41	3°21	16° 8	25°23	22°51	5°50	27°36	27°25	10°56	17°16	T 14
W15	21 34 44	22°16'49	0♂27	19°24	4°36	28°17	3°34	16° 4	25°25	22°53	5°50	27°25	27°22	11° 3	17°13	W15
T 16	21 38 40	23°14'36	12°20	21°25	5°15	28°53	3°47	16° 0	25°28	22°55	5°49	27°17	27°19	11° 9	17°11	T 16
F 17	21 42 37	24°12'25	24°17	23°25	5°53	29°28	4° 0	15°56	25°30	22°57	5°49	27°12	27°16	11°16	17° 8	F 17
S 18	21 46 33	25°10'15	6♂24	25°24	6°29	0♂ 3	4°13	15°52	25°32	22°59	5°49	27°10	27°13	11°23	17° 6	S 18
S 19	21 50 30	26° 8'07	18°44	27°22	7° 5	0°38	4°26	15°47	25°34	23° 1	5°49	27° 9	27° 9	11°29	17° 3	S 19
M20	21 54 26	27° 6'01	1♂22	29°19	7°39	1°13	4°39	15°43	25°36	23° 3	5°48	27° 9	27° 6	11°36	17° 1	M20
T 21	21 58 23	28° 3'57	14°24	1♂14	8°12	1°47	4°51	15°39	25°38	23° 5	5°48	27° 8	27° 3	11°43	16°59	T 21
W22	22 2 20	29° 1'55	27°52	3° 9	8°43	2°22	5° 4	15°35	25°40	23° 7	5°48	27° 6	27° 0	11°50	16°56	W22
T 23	22 6 16	29°59'55	11♂50	5° 3	9°13	2°56	5°17	15°30	25°42	23° 9	5°47	27° 2	26°57	11°56	16°54	T 23
F 24	22 10 13	0♂57'56	26°18	6°55	9°41	3°29	5°30	15°26	25°44	23°11	5°47	26°55	26°53	12° 3	16°52	F 24
S 25	22 14 9	1°55'59	11♂11	8°46	10° 8	4° 3	5°43	15°21	25°46	23°13	5°46	26°46	26°50	12°10	16°50	S 25
S 26	22 18 6	2°54'04	26°22	10°36	10°34	4°36	5°56	15°17	25°48	23°15	5°46	26°35	26°47	12°16	16°48	S 26
M27	22 22 2	3°52'11	11♂41	12°24	10°57	5° 9	6° 9	15°13	25°50	23°17	5°46	26°24	26°44	12°23	16°46	M27
T 28	22 25 59	4°50'19	26°56	14°11	11°20	5°42	6°23	15° 8	25°52	23°19	5°45	26°14	26°41	12°30	16°44	T 28
W29	22 29 55	5°48'29	11♂57	15°57	11°40	6°15	6°36	15° 4	25°54	23°22	5°45	26° 7	26°38	12°37	16°42	W29
T 30	22 33 52	6°46'40	26°35	17°42	11°58	6°47	6°49	14°59	25°55	23°24	5°44	26° 2	26°34	12°43	16°40	T 30
F 31	22 37 49	7♂44'53	10♂47	19♂26	12♂15	7♂19	7♂ 2	14♂54	25♂57	23♂26	5♂44	25♂59	26♂31	12♂50	16♂39	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n 5	2n45	4n12	21n42	0n 4	1n 8	1s24	16n16	1s29	12n11	0n58	7s12	2s11	23n32	0n 8	4n10
T 2	17 50	3s39	3 22	21 37	0 17	0 41	1 32	16 27	1 28	12 6	0 58	7 13	2 11	23 32	0 8	4 10
F 3	17 35	9 43	2 21	21 29	0 28	0 14	1 39	16 37	1 27	12 2	0 58	7 15	2 11	23 32	0 8	4 9
S 4	17 19	15 9	1 14	21 19	0 39	0s13	1 47	16 48	1 27	11 57	0 58	7 16	2 12	23 32	0 8	4 8
S 5	17 3	19 43	0 4	21 6	0 49	0 40	1 55	16 58	1 26	11 53	0 58	7 18	2 12	23 32	0 8	4 8
M 6	16 46	23 13	1s 4	20 51	0 59	1 6	2 3	17 8	1 26	11 48	0 58	7 19	2 12	23 32	0 8	4 7
T 7	16 29	25 28	2 8	20 33	1 7	1 33	2 12	17 18	1 25	11 44	0 58	7 21	2 12	23 32	0 8	4 6
W 8	16 13	26 24	3 4	20 12	1 15	1 59	2 20	17 28	1 24	11 39	0 58	7 22	2 12	23 32	0 8	4 5
T 9	15 55	26 0	3 50	19 48	1 22	2 25	2 28	17 38	1 23	11 35	0 58	7 24	2 13	23 33	0 8	4 5
F 10	15 38	24 21	4 26	19 23	1 28	2 51	2 37	17 47	1 23	11 30	0 58	7 25	2 13	23 33	0 8	4 4
S 11	15 20	21 37	4 49	18 54	1 33	3 16	2 46	17 56	1 22	11 26	0 58	7 27	2 13	23 33	0 8	4 3
S 12	15 2	17 58	4 59	18 24	1 37	3 41	2 55	18 6	1 21	11 21	0 58	7 29	2 13	23 33	0 8	4 2
M13	14 44	13 38	4 56	17 52	1 40	4 6	3 3	18 15	1 21	11 16	0 58	7 30	2 13	23 33	0 8	4 2
T 14	14 26	8 49	4 40	17 17	1 43	4 31	3 13	18 24	1 20	11 12	0 58	7 32	2 13	23 33	0 8	4 1
W15	14 7	3 40	4 12	16 41	1 45	4 55	3 22	18 32	1 19	11 7	0 58	7 34	2 14	23 33	0 9	4 0
T 16	13 48	1n37	3 33	16 4	1 46	5 19	3 31	18 41	1 18	11 2	0 58	7 35	2 14	23 33	0 9	3 59
F 17	13 29	6 54	2 44	15 25	1 46	5 43	3 40	18 49	1 17	10 58	0 58	7 37	2 14	23 33	0 9	3 58
S 18	13 10	12 0	1 47	14 45	1 46	6 6	3 50	18 58	1 17	10 53	0 58	7 39	2 14	23 33	0 9	3 58
S 19	12 50	16 43	0 44	14 3	1 45	6 29	3 59	19 6	1 16	10 48	0 58	7 41	2 14	23 34	0 9	3 57
M20	12 30	20 51	0n22	13 21	1 43	6 51	4 9	19 14	1 15	10 44	0 58	7 42	2 14	23 34	0 9	3 56
T 21	12 10	24 4	1 30	12 38	1 41	7 13	4 19	19 21	1 14	10 39	0 58	7 44	2 15	23 34	0 9	3 55
W22	11 50	26 3	2 35	11 54	1 38	7 34	4 28	19 29	1 13	10 34	0 58	7 46	2 15	23 34	0 9	3 54
T 23	11 30	26 29	3 33	11 10	1 35	7 55	4 38	19 37	1 12	10 29	0 58	7 48	2 15	23 34	0 9	3 53
F 24	11 9	25 10	4 19	10 25	1 32	8 16	4 48	19 44	1 11	10 25	0 58	7 50	2 15	23 34	0 9	3 53
S 25	10 49	22 5	4 49	9 39	1 28	8 35	4 58	19 51	1 10	10 20	0 58	7 51	2 15	23 34	0 9	3 52
S 26	10 28	17 27	5 0	8 54	1 23	8 55	5 8	19 58	1 9	10 15	0 58	7 53	2 15	23 34	0 9	3 51
M27	10 7	11 40	4 50	8 8	1 19	9 13	5 18	20 5	1 8	10 10	0 58	7 55	2 15	23 34	0 9	3 50
T 28	9 45	5 11	4 19	7 22	1 13	9 31	5 28	20 12	1 7	10 5	0 58	7 57	2 15	23 34	0 9	3 49
W29	9 24	1s30	3 30	6 36	1 8	9 48	5 38	20 19	1 6	10 1	0 58	7 59	2 15	23 34	0 9	3 48
T 30	9 3	7 58	2 29	5 50	1 2	10 5	5 48	20 25	1 5	9 56	0 58	8 1	2 16	23 34	0 9	3 48
F 31	8n41	13s50	1n20	5n 3	0n56	10s20	5s58	20n31	1s 4	9n51	0n58	8s 2	2s16	23n34	0n 9	3n47

Julian Day Number = 2310043.5, Delta T = 73.88 sec
Ecliptic obliquity = 23°29'28", Nutation = - 0°00'13", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°20'00", Lahiri = 18°27'00"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1612

geocentric

SEPTEMBER 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 41 45	8♎43'08	24♎31	21♎ 8	12♎29	7♎51	7♎15	14°R50	25♎58	23♎28	5°R43	25°D58	26♎28	12♎57	16°R37	S 1
S 2	22 45 42	9°41'24	7♎49	22°49	12°42	8°22	7°28	14°K45	26° 0	23°30	5♎43	25°R59	26°25	13° 4	16♎35	S 2
M 3	22 49 38	10°39'41	20°43	24°30	12°53	8°53	7°41	14°41	26° 2	23°32	5°42	25♎58	26°22	13°10	16°34	M 3
T 4	22 53 35	11°38'00	3♎19	26° 8	13° 1	9°24	7°54	14°36	26° 3	23°35	5°41	25°56	26°19	13°17	16°32	T 4
W 5	22 57 31	12°36'21	15°40	27°46	13° 7	9°55	8° 7	14°31	26° 4	23°37	5°41	25°52	26°15	13°24	16°31	W 5
T 6	23 1 128	13°34'43	27°51	29°23	13°11	10°25	8°20	14°27	26° 6	23°39	5°40	25°45	26°12	13°30	16°30	T 6
F 7	23 5 24	14°33'07	9♎53	0♎58	13°R13	10°55	8°33	14°22	26° 7	23°41	5°40	25°36	26° 9	13°37	16°29	F 7
S 8	23 9 21	15°31'32	21°50	2°33	13°12	11°25	8°46	14°18	26° 8	23°43	5°39	25°24	26° 6	13°44	16°27	S 8
S 9	23 13 18	16°30'00	3♎44	4° 6	13° 9	11°54	8°59	14°13	26°10	23°46	5°38	25°11	26° 3	13°51	16°26	S 9
M10	23 17 14	17°28'29	15°36	5°39	13° 4	12°23	9°12	14° 8	26°11	23°48	5°38	24°58	25°59	13°57	16°25	M10
T 11	23 21 11	18°27'00	27°29	7°10	12°56	12°52	9°24	14° 4	26°12	23°50	5°37	24°47	25°56	14° 4	16°24	T 11
W12	23 25 7	19°25'33	9♎23	8°40	12°46	13°20	9°37	13°59	26°13	23°52	5°36	24°37	25°53	14°11	16°24	W12
T 13	23 29 4	20°24'08	21°20	10° 9	12°33	13°48	9°50	13°55	26°14	23°54	5°35	24°29	25°50	14°17	16°23	T 13
F 14	23 33 0	21°22'45	3♎22	11°37	12°18	14°16	10° 3	13°50	26°15	23°57	5°35	24°25	25°47	14°24	16°22	F 14
S 15	23 36 57	22°21'24	15°33	13° 4	12° 1	14°43	10°16	13°45	26°16	23°59	5°34	24°22	25°44	14°31	16°22	S 15
S 16	23 40 53	23°20'05	27°55	14°30	11°41	15°10	10°29	13°41	26°17	24° 1	5°33	24°D22	25°40	14°38	16°21	S 16
M17	23 44 50	24°18'49	10♎34	15°55	11°20	15°37	10°42	13°36	26°17	24° 3	5°32	24°23	25°37	14°44	16°20	M17
T 18	23 48 46	25°17'35	23°32	17°18	10°56	16° 3	10°55	13°32	26°18	24° 6	5°32	24°R23	25°34	14°51	16°20	T 18
W19	23 52 43	26°16'24	6♎55	18°41	10°30	16°29	11° 7	13°27	26°19	24° 8	5°31	24°23	25°31	14°58	16°20	W19
T 20	23 56 40	27°15'14	20°44	20° 2	10° 2	16°55	11°20	13°23	26°19	24°10	5°30	24°20	25°28	15° 4	16°20	T 20
F 21	0 0 36	28°14'07	5♎ 0	21°22	9°32	17°20	11°33	13°19	26°20	24°12	5°29	24°16	25°25	15°11	16°19	F 21
S 22	0 4 33	29°13'02	19°42	22°40	9° 1	17°44	11°46	13°14	26°21	24°15	5°28	24° 9	25°21	15°18	16°19	S 22
S 23	0 8 29	0♎12'00	4♎44	23°58	8°29	18° 8	11°58	13°10	26°21	24°17	5°27	24° 1	25°18	15°25	16°D19	S 23
M24	0 12 26	1°10'59	19°58	25°14	7°55	18°32	12°11	13° 6	26°22	24°19	5°26	23°53	25°15	15°31	16°19	M24
T 25	0 16 22	2°10'01	5♎13	26°28	7°20	18°55	12°24	13° 1	26°22	24°21	5°25	23°46	25°12	15°38	16°19	T 25
W26	0 20 19	3° 9'04	20°18	27°41	6°44	19°18	12°36	12°57	26°22	24°23	5°25	23°40	25° 9	15°45	16°20	W26
T 27	0 24 15	4° 8'10	5♎ 4	28°52	6° 8	19°41	12°49	12°53	26°23	24°26	5°24	23°36	25° 5	15°51	16°20	T 27
F 28	0 28 12	5° 7'18	19°25	0♎ 2	5°31	20° 2	13° 1	12°49	26°23	24°28	5°23	23°D35	25° 2	15°58	16°20	F 28
S 29	0 32 9	6° 6'27	3♎18	1° 9	4°55	20°24	13°14	12°45	26°23	24°30	5°22	23°35	24°59	16° 5	16°21	S 29
S 30	0 36 5	7♎ 5'38	16♎43	2♎15	4♎18	20♎45	13♎26	12♎41	26♎23	24♎32	5♎21	23♎36	24♎56	16♎12	16♎21	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
S 1	8n19	18s49 0n 8	4n17 0n50	10s35 6s 8	20n38 1s 3	9n46 0n58	8s 4 2s16	23n35 0n 9	3n46 1n16	2s 3 16s24	19n17 19n24	11s16 15s13	7n17			
S 2	7 57	22 41 1s 2	3 31 0 44	10 49 6 18	20 44 1 2	9 41 0 58	8 6 2 16	23 35 0 9	3 45 1 16	2 3 16 24	19 17 19 24	11 13 15 14	7 17			
M 3	7 35	25 17 2 7	2 46 0 37	11 2 6 28	20 50 1 1	9 37 0 58	8 8 2 16	23 35 0 9	3 44 1 16	2 4 16 25	19 17 19 23	11 10 15 14	7 16			
T 4	7 13	26 31 3 4	2 0 0 30	11 14 6 37	20 55 1 0	9 32 0 58	8 10 2 16	23 35 0 9	3 43 1 16	2 4 16 25	19 17 19 22	11 7 15 15	7 16			
W 5	6 51	26 24 3 51	1 15 0 23	11 26 6 47	21 1 0 59	9 27 0 58	8 12 2 16	23 35 0 9	3 42 1 16	2 5 16 25	19 16 19 21	11 5 15 16	7 15			
T 6	6 28	25 0 4 27	0 30 0 16	11 36 6 56	21 7 0 57	9 22 0 59	8 14 2 16	23 35 0 9	3 41 1 16	2 5 16 25	19 14 19 21	11 2 15 16	7 15			
F 7	6 6	22 28 4 50	0s15 0 9	11 45 7 5	21 12 0 56	9 17 0 59	8 15 2 16	23 35 0 9	3 41 1 16	2 5 16 26	19 12 19 20	10 59 15 17	7 14			
S 8	5 43	19 0 5 1	1 0 0 2	11 52 7 14	21 17 0 55	9 13 0 59	8 17 2 16	23 35 0 9	3 40 1 16	2 6 16 26	19 9 19 19	10 56 15 18	7 14			
S 9	5 20	14 47 4 58	1 44 0s 6	11 59 7 22	21 23 0 54	9 8 0 59	8 19 2 16	23 35 0 9	3 39 1 16	2 6 16 26	19 6 19 18	10 53 15 18	7 13			
M10	4 58	10 1 4 42	2 27 0 13	12 5 7 31	21 28 0 53	9 3 0 59	8 21 2 16	23 35 0 9	3 38 1 16	2 7 16 26	19 3 19 18	10 50 15 19	7 13			
T 11	4 35	4 54 4 14	3 10 0 21	12 9 7 39	21 33 0 51	8 58 0 59	8 23 2 16	23 35 0 9	3 37 1 16	2 7 16 27	19 0 19 17	10 47 15 19	7 13			
W12	4 12	0n25 3 35	3 53 0 29	12 11 7 46	21 37 0 50	8 53 0 59	8 25 2 16	23 35 0 9	3 36 1 16	2 8 16 27	18 58 19 16	10 45 15 20	7 12			
T 13	3 49	5 46 2 46	4 35 0 36	12 13 7 53	21 42 0 49	8 48 0 59	8 26 2 16	23 35 0 9	3 35 1 16	2 8 16 27	18 56 19 15	10 42 15 21	7 11			
F 14	3 26	10 57 1 50	5 17 0 44	12 13 7 59	21 47 0 47	8 44 0 59	8 28 2 16	23 35 0 9	3 34 1 16	2 9 16 27	18 55 19 15	10 39 15 21	7 11			
S 15	3 2	15 47 0 47	5 58 0 52	12 12 8 5	21 51 0 46	8 39 0 59	8 30 2 16	23 35 0 9	3 34 1 16	2 9 16 28	18 54 19 14	10 36 15 22	7 10			
S 16	2 39	20 3 0n19	6 38 1 0	12 9 8 11	21 55 0 45	8 34 0 59	8 32 2 16	23 35 0 9	3 33 1 16	2 9 16 28	18 54 19 13	10 33 15 22	7 10			
M17	2 16	23 29 1 26	7 18 1 7	12 4 8 15	22 0 0 43	8 29 0 59	8 33 2 16	23 35 0 9	3 32 1 16	2 10 16 28	18 54 19 12	10 30 15 23	7 9			
T 18	1 52	25 49 2 29	7 58 1 15	11 59 8 19	22 4 0 42	8 24 0 59	8 35 2 16	23 35 0 9	3 31 1 16	2 10 16 28	18 55 19 12	10 27 15 23	7 9			
W19	1 29	26 46 3 27	8 36 1 23	11 51 8 23	22 8 0 40	8 20 0 59	8 37 2 16	23 35 0 9	3 30 1 16	2 11 16 28	18 54 19 11	10 24 15 24	7 8			
T 20	1 6	26 5 4 15	9 14 1 30	11 43 8 25	22 12 0 39	8 15 1 0	8 39 2 16	23 36 0 9	3 29 1 16	2 11 16 29	18 54 19 10	10 22 15 25	7 8			
F 21	0 42	23 43 4 49	9 51 1 38	11 33 8 27	22 16 0 37	8 10 1 0	8 40 2 16	23 36 0 9	3 28 1 16	2 12 16 29	18 53 19 9	10 19 15 25	7 7			
S 22	0 19	19 45 5 5	10 28 1 45	11 21 8 28	22 20 0 36	8 5 1 0	8 42 2 16	23 36 0 9	3 27 1 16	2 12 16 29	18 51 19 9	10 16 15 26	7 7			
S 23	0s 5	14 27 5 0	11 3 1 52	11 8 8 28	22 23 0 34	8 0 1 0	8 44 2 16	23 36 0 9	3 27 1 16	2 13 16 29	18 49 19 8	10 13 15 26	7 6			
M24	0 28	8 11 4 35	11 38 1 59	10 54 8 27	22 27 0 33	7 56 1 0	8 45 2 16	23 36 0 9	3 26 1 16	2 13 16 29	18 47 19 7	10 10 15 27	7 6			
T 25	0 52	1 26 3 50	12 12 2 7	10 38 8 25	22 31 0 31	7 51 1 0	8 47 2 16	23 36 0 9	3 25 1 16	2 13 16 30	18 45 19 6	10 7 15 27	7 5			
W26	1 15	5s20 2 49	12 45 2 13	10 22 8 23	22 34 0 30	7 46 1 0	8 48 2 16	23 36 0 9	3 24 1 16	2 14 16 30	18 44 19 6	10 4 15 28	7 5			
T 27	1 39	11 42 1 38	13 17 2 20	10 4 8 19	22 37 0 28	7 41 1 0	8 50 2 16	23 36 0 9	3 23 1 16	2 14 16 30	18 43 19 5	10 1 15 28	7 4			
F 28	2 2	17 16 0 22	13 47 2 27	9 45 8 15	22 41 0 26	7 37 1 0	8 51 2 16	23 36 0 9	3 22 1 16	2 15 16 30	18 43 19 4	9 58 15 29	7 4			
S 29	2 26	21 43 0s52	14 17 2 33	9 26 8 9	22 44 0 25	7 32 1 0	8 53 2 16	23 36 0 9	3 21 1 16	2 15 16 30	18 43 19 3	9 55 15 29	7 3			
S 30	2s49	24s51 2s 2	14s46 2s39	9s 5 8s 3	22n47 0s23	7n27 1n 1	8s54 2s16	23n36 0n 9	3n20 1n16	2s16 16s30	18n43 19n 2	9s52 15s30	7n 3			

Julian Day Number = 2310074.5, Delta T = 73.79 sec
 Ecliptic obliquity = 23°29'28", Nutation = - 0°00'14", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°20'04", Lahiri = 18°27'04"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1612

geocentric

OCTOBER 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 40 2	8♌ 4'51	29♌ 42	3♌ 18	3♌ 42	21♌ 5	13♌ 39	12♌ 37	26♌ 23	24♌ 34	5♌ 20	23♌ 37	24♌ 53	16♌ 18	16♌ 22	M 1
T 2	0 43 58	9° 4'06	12♌ 20	4° 19	3♌ 6	21° 25	13° 51	12♌ 33	26♌ 23	24° 37	5♌ 19	23♌ 38	24° 50	16° 25	16° 23	T 2
W 3	0 47 55	10° 3'23	24° 40	5° 17	2° 31	21° 44	14° 3	12° 29	26° 23	24° 39	5° 18	23° 36	24° 46	16° 32	16° 23	W 3
T 4	0 51 51	11° 2'41	6♌ 47	6° 12	1° 57	22° 3	14° 16	12° 25	26° 23	24° 41	5° 17	23° 33	24° 43	16° 38	16° 24	T 4
F 5	0 55 48	12° 2'01	18° 46	7° 4	1° 25	22° 21	14° 28	12° 22	26° 23	24° 43	5° 16	23° 28	24° 40	16° 45	16° 25	F 5
S 6	0 59 44	13° 1'23	0♌ 40	7° 53	0° 53	22° 39	14° 40	12° 18	26° 23	24° 45	5° 15	23° 22	24° 37	16° 52	16° 26	S 6
S 7	1 3 41	14° 0'47	12° 31	8° 38	0° 24	22° 56	14° 52	12° 14	26° 22	24° 47	5° 14	23° 14	24° 34	16° 59	16° 27	S 7
M 8	1 7 38	15° 0'13	24° 24	9° 18	29♌ 56	23° 13	15° 4	12° 11	26° 22	24° 50	5° 13	23° 7	24° 30	17° 5	16° 28	M 8
T 9	1 11 34	15° 59'40	6♌ 19	9° 55	29° 31	23° 29	15° 17	12° 7	26° 22	24° 52	5° 12	23° 0	24° 27	17° 12	16° 29	T 9
W10	1 15 31	16° 59'10	18° 19	10° 26	29° 7	23° 44	15° 29	12° 4	26° 21	24° 54	5° 11	22° 54	24° 24	17° 19	16° 31	W10
T 11	1 19 27	17° 58'42	0♌ 25	10° 52	28° 46	23° 59	15° 41	12° 1	26° 21	24° 56	5° 9	22° 50	24° 21	17° 25	16° 32	T 11
F 12	1 23 24	18° 58'16	12° 39	11° 12	28° 27	24° 13	15° 52	11° 58	26° 20	24° 58	5° 8	22° 48	24° 18	17° 32	16° 33	F 12
S 13	1 27 20	19° 57'52	25° 1	11° 25	28° 10	24° 26	16° 4	11° 54	26° 20	25° 0	5° 7	22° D48	24° 15	17° 39	16° 35	S 13
S 14	1 31 17	20° 57'30	7♌ 35	11° R31	27° 56	24° 39	16° 16	11° 51	26° 19	25° 2	5° 6	22° 49	24° 11	17° 46	16° 37	S 14
M15	1 35 13	21° 57'10	20° 23	11° 30	27° 44	24° 52	16° 28	11° 48	26° 19	25° 4	5° 5	22° 50	24° 8	17° 52	16° 38	M15
T 16	1 39 10	22° 56'53	3♌ 26	11° 20	27° 34	25° 3	16° 39	11° 45	26° 18	25° 6	5° 4	22° 52	24° 5	17° 59	16° 40	T 16
W17	1 43 7	23° 56'38	16° 49	11° 2	27° 27	25° 14	16° 51	11° 43	26° 17	25° 8	5° 3	22° 53	24° 2	18° 6	16° 42	W17
T 18	1 47 3	24° 56'26	0♌ 31	10° 35	27° 23	25° 24	17° 3	11° 40	26° 16	25° 10	5° 2	22° R53	23° 59	18° 12	16° 44	T 18
F 19	1 51 0	25° 56'15	14° 36	10° 0	27° D21	25° 33	17° 14	11° 37	26° 15	25° 12	5° 1	22° 52	23° 56	18° 19	16° 46	F 19
S 20	1 54 56	26° 56'07	29° 0	9° 15	27° 21	25° 42	17° 26	11° 35	26° 15	25° 14	5° 0	22° 49	23° 52	18° 26	16° 48	S 20
S 21	1 58 53	27° 56'01	13♌ 41	8° 21	27° 24	25° 50	17° 37	11° 32	26° 14	25° 16	4° 58	22° 46	23° 49	18° 32	16° 50	S 21
M22	2 2 49	28° 55'57	28° 34	7° 20	27° 29	25° 57	17° 48	11° 30	26° 13	25° 18	4° 57	22° 43	23° 46	18° 39	16° 52	M22
T 23	2 6 46	29° 55'55	13♌ 31	6° 12	27° 37	26° 3	17° 59	11° 28	26° 11	25° 20	4° 56	22° 40	23° 43	18° 46	16° 54	T 23
W24	2 10 42	0♌ 55'56	28° 24	4° 58	27° 47	26° 9	18° 10	11° 25	26° 10	25° 22	4° 55	22° 37	23° 40	18° 53	16° 56	W24
T 25	2 14 39	1° 55'58	13♌ 4	3° 42	27° 58	26° 14	18° 22	11° 23	26° 9	25° 24	4° 54	22° 36	23° 36	18° 59	16° 59	T 25
F 26	2 18 36	2° 56'02	27° 24	2° 24	28° 12	26° 17	18° 33	11° 21	26° 8	25° 26	4° 53	22° D36	23° 33	19° 6	17° 1	F 26
S 27	2 22 32	3° 56'08	11♌ 20	1° 8	28° 29	26° 21	18° 43	11° 19	26° 7	25° 27	4° 52	22° 37	23° 30	19° 13	17° 4	S 27
S 28	2 26 29	4° 56'16	24° 51	29♌ 55	28° 47	26° 23	18° 54	11° 18	26° 5	25° 29	4° 51	22° 38	23° 27	19° 19	17° 6	S 28
M29	2 30 25	5° 56'25	7♌ 37	28° 49	29° 7	26° 24	19° 5	11° 16	26° 4	25° 31	4° 49	22° 39	23° 24	19° 26	17° 9	M29
T 30	2 34 22	6° 56'36	27° 50	27° 50	29° 29	26° R25	19° 16	11° 14	26° 3	25° 33	4° 48	22° 40	23° 21	19° 33	17° 12	T 30
W31	2 38 18	7♌ 56'48	3♌ 4	27♌ 1	29♌ 52	26° II 25	19° 26	11° 13	26° II 1	25° 35	4° 47	22° R41	23° 17	19° 40	17° 14	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	
M 1	3s13	26s32	3s 3	15s13	2s45	8s44	7s56	22n50	0s21	7n23	1n 1	8s56	2s16	23n36	0n 9	3n20	1n16	2s16	16s30	18n43	19n 2	9s50	15s30	7n 2	2s16	16s30	18n43	19n 2
T 2	3 36	26 47	3 53	15 39	2 50	8 23	7 47	22 53	0 19	7 18	1 1	8 57	2 16	23 36	0 9	3 19	1 16	2 17	16 31	18 43	19 1	9 47	15 31	7 2	16 31	18 43	19 1	
W 3	3 59	25 41	4 31	16 3	2 55	8 1	7 39	22 56	0 18	7 13	1 1	8 59	2 16	23 36	0 9	3 18	1 16	2 17	16 31	18 43	19 0	9 44	15 31	7 1	16 31	18 43	19 0	
T 4	4 23	23 23	4 56	16 26	3 0	7 38	7 29	22 59	0 16	7 9	1 1	9 0	2 16	23 36	0 9	3 17	1 16	2 17	16 31	18 42	18 59	9 41	15 31	7 0	16 31	18 42	18 59	
F 5	4 46	20 6	5 8	16 48	3 4	7 16	7 19	23 2	0 14	7 4	1 1	9 2	2 16	23 36	0 9	3 16	1 16	2 18	16 31	18 41	18 59	9 38	15 32	7 0	16 31	18 41	18 59	
S 6	5 9	16 2	5 7	17 7	3 7	6 54	7 8	23 5	0 12	6 59	1 1	9 3	2 16	23 36	0 9	3 15	1 16	2 18	16 31	18 39	18 58	9 35	15 32	6 59	16 31	18 39	18 58	
S 7	5 32	11 22	4 52	17 25	3 10	6 31	6 56	23 8	0 10	6 55	1 1	9 4	2 16	23 36	0 9	3 15	1 16	2 19	16 31	18 37	18 57	9 32	15 33	6 59	16 31	18 37	18 57	
M 8	5 55	6 17	4 25	17 40	3 13	6 9	6 44	23 11	0 8	6 50	1 1	9 5	2 15	23 36	0 9	3 14	1 16	2 19	16 31	18 36	18 56	9 29	15 33	6 58	16 31	18 36	18 56	
T 9	6 18	0 56	3 46	17 54	3 15	5 48	6 32	23 14	0 6	6 46	1 2	9 7	2 15	23 36	0 9	3 13	1 16	2 20	16 31	18 34	18 56	9 26	15 33	6 58	16 31	18 34	18 56	
W10	6 41	4n28	2 57	18 5	3 16	5 26	6 19	23 16	0 4	6 41	1 2	9 8	2 15	23 36	0 9	3 12	1 16	2 20	16 31	18 32	18 55	9 23	15 34	6 57	16 31	18 32	18 55	
T 11	7 4	9 47	1 59	18 13	3 16	5 6	6 23	23 19	0 2	6 37	1 2	9 9	2 15	23 36	0 9	3 11	1 17	2 20	16 32	18 31	18 54	9 20	15 34	6 57	16 32	18 31	18 54	
F 12	7 27	14 47	0 55	18 18	3 15	4 46	5 52	23 22	0n 0	6 32	1 2	9 10	2 15	23 36	0 9	3 11	1 17	2 21	16 32	18 31	18 53	9 17	15 35	6 56	16 32	18 31	18 53	
S 13	7 49	19 16	0n12	18 21	3 13	4 26	5 38	23 25	0 2	6 28	1 2	9 11	2 15	23 36	0 10	3 10	1 17	2 21	16 32	18 31	18 52	9 14	15 35	6 56	16 32	18 31	18 52	
S 14	8 12	22 56	1 20	18 20	3 10	4 8	5 25	23 27	0 4	6 23	1 2	9 12	2 15	23 36	0 10	3 9	1 17	2 22	16 32	18 31	18 52	9 11	15 35	6 55	16 32	18 31	18 52	
M15	8 34	25 33	2 25	18 15	3 6	3 50	5 11	23 30	0 7	6 19	1 2	9 13	2 15	23 36	0 10	3 8	1 17	2 22	16 32	18 31	18 51	9 8	15 36	6 55	16 32	18 31	18 51	
T 16	8 56	26 51	3 24	18 7	3 0	3 34	4 56	23 33	0 9	6 14	1 2	9 14	2 15	23 36	0 10	3 7	1 17	2 22	16 32	18 32	18 50	9 5	15 36	6 54	16 32	18 32	18 50	
W17	9 19	26 38	4 14	17 54	2 53	3 18	4 42	23 35	0 11	6 10	1 3	9 15	2 14	23 36	0 10	3 7	1 17	2 23	16 32	18 32	18 49	9 2	15 36	6 54	16 32	18 32	18 49	
T 18	9 41	24 48	4 50	17 37	2 44	3 3	4 28	23 38	0 13	6 5	1 3	9 16	2 14	23 36	0 10	3 6	1 17	2 23	16 32	18 32	18 48	8 59	15 36	6 53	16 32	18 32	18 48	
F 19	10 2	21 26	5 11	17 16	2 33	2 50	4 14	23 41	0 16	6 1	1 3	9 17	2 14	23 36	0 10	3 5	1 17	2 24	16 32	18 32	18 48	8 56	15 37	6 53	16 32	18 32	18 48	
S 20	10 24	16 43	5 12	16 49	2 20	2 37	4 0	23 43	0 18	5 57	1 3	9 18	2 14	23 36	0 10	3 4	1 17	2 24	16 32	18 31	18 47	8 53	15 37	6 52	16 32	18 31	18 47	
S 21	10 46	10 56	4 53	16 19	2 6	2 25	3 46	23 46	0 20	5 52	1 3	9 19	2 14	23 36	0 10	3 4	1 17	2 24	16 32	18 30	18 46	8 50	15 37	6 52	16 32	18 30	18 46	
M22	11 7	4 28	4 15	15 43	1 50	2 15	3 33	23 48	0 23	5 48	1 3	9 20	2 14	23 36	0 10	3 3	1 17	2 25	16 32	18 29	18 45	8 47	15 37	6 51	16 32	18 29	18 45	
T 23	11 28	2s18	3 19	15 4	1 33	2 5	3 19	23 51	0 25	5 44	1 3	9 20	2 14	23 36	0 10	3 2	1 17	2 25	16 32	18 29	18 45	8 44	15 38	6 51	16 32	18 29	18 45	
W24	11 49	8 55	2 9	14 22	1 14	1 57	3 6	23 54	0 28	5 40	1 4	9 21	2 14	23 36	0 10	3 1	1 17	2 25	16 32	18 28	18 44	8 41	15 38	6 50	16 32	18 28	18 44	
T 25	12 10	14 58	0 52	13 37	0 54	1 50	2 52	23 56	0 30	5 35	1 4	9 22	2 13	23 36	0 10	3 1	1 17	2 26	16 32	18 28	18 43	8 38	15 38	6 50	16 32	18 28	18 43	
F 26	12 31	20 3	0s26	12 51	0 34	1 43	2 40	23 59	0 33	5 31	1 4	9 22	2 13	23 36	0 10	3 0	1 17	2 26	16 32	18 28	18 42	8 35	15 38	6 49	16 32	18 28	18 42	
S 27	12 51	23 52	1 42	12 6	0 13	1 38	2 27	24 2	0 35	5 27	1 4	9 23	2 13	23 36	0 10	2 59	1 17	2 27	16 32	18 28	18 41	8 32	15 38	6 49	16 32	18 28	18 41	
S 28	13 12	26 12	2 49	11 21	0n 8	1 34	2 14	24 4	0 38	5 23	1 4	9 24	2 13	23 36	0 10	2 58	1 17	2 27	16 32	18 28	18 41	8 29	15 39	6 48	16 32	18 28	18 41	
M29	13 32	27 0	3 45	10 39	0 27	1 31	2 2	24 7	0 41	5 19	1 4	9 24	2 13	23 36	0 10	2 58	1 17	2 27	16 32	18 29	18 40	8 26	15 39	6 48	16 32	18 29	18 40	
T 30	13 52	26 19	4 28	10 0	0 46	1 38	1 50	24 10	0 43	5 15	1 5	9 25	2 13	23 36	0 10	2 57	1 17	2 28	16 32	18 29	18 39	8 23	15 39	6 47	16 32	18 29	18 39	
W31	14s11	24s21	4s58	9s27	1n 4	1s27	1s38	24n12	0n46	5n11	1n 5	9s25	2s13	23n36	0n10	2n56	1n17	2s28	16s32	18n29	18n38	8s20	15s39	6n47	2s13	23n36	0n10	

ASTRODIENST EPHEMERIS for the year 1612

geocentric

NOVEMBER 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 15	8♍57'02	15♋13	26°R23	0♉18	26°R24	19♊37	11°R11	26°R 0	25♊36	4°R46	22°R41	23♋14	19♋46	17♋17	T 1
F 2	2 46 11	9°57'18	27°11	25♊57	0°45	26♊22	19°47	11♋10	25♊58	25°38	4♋45	22♋40	23°11	19°53	17°20	F 2
S 3	2 50 8	10°57'34	9♋4	25°42	1°14	26°19	19°57	11°9	25°57	25°40	4°44	22°39	23°8	20°0	17°23	S 3
S 4	2 54 5	11°57'53	20°56	25°D38	1°45	26°15	20°8	11°8	25°55	25°41	4°43	22°38	23°5	20°6	17°26	S 4
M 5	2 58 1	12°58'12	2°Y49	25°46	2°17	26°11	20°18	11°7	25°53	25°43	4°42	22°36	23°2	20°13	17°29	M 5
T 6	3 1 58	13°58'34	14°49	26°4	2°50	26°5	20°28	11°6	25°52	25°45	4°40	22°35	22°58	20°20	17°32	T 6
W 7	3 5 54	14°58'57	26°56	26°32	3°25	25°59	20°38	11°5	25°50	25°46	4°39	22°34	22°55	20°27	17°36	W 7
T 8	3 9 51	15°59'21	9♋14	27°8	4°1	25°52	20°48	11°4	25°48	25°48	4°38	22°33	22°52	20°33	17°39	T 8
F 9	3 13 47	16°59'47	21°42	27°53	4°39	25°44	20°57	11°4	25°46	25°50	4°37	22°D33	22°49	20°40	17°42	F 9
S 10	3 17 44	18°0'15	4♊24	28°44	5°18	25°35	21°7	11°3	25°45	25°51	4°36	22°33	22°46	20°47	17°46	S 10
S 11	3 21 40	19°0'45	17°18	29°42	5°58	25°25	21°17	11°3	25°43	25°53	4°35	22°33	22°42	20°53	17°49	S 11
M12	3 25 37	20°1'16	0♉25	0♍45	6°40	25°14	21°26	11°2	25°41	25°54	4°34	22°34	22°39	21°0	17°53	M12
T 13	3 29 34	21°1'49	13°46	1°53	7°22	25°3	21°35	11°2	25°39	25°56	4°33	22°34	22°36	21°7	17°56	T 13
W14	3 33 30	22°2'24	27°20	3°4	8°6	24°51	21°44	11°D 2	25°37	25°57	4°32	22°34	22°33	21°13	18°0	W14
T 15	3 37 27	23°3'00	11♋7	4°19	8°50	24°37	21°54	11°2	25°35	25°58	4°31	22°R34	22°30	21°20	18°4	T 15
F 16	3 41 23	24°3'39	25°6	5°37	9°36	24°23	22°3	11°2	25°33	26°0	4°30	22°D34	22°27	21°27	18°7	F 16
S 17	3 45 20	25°4'19	9♊17	6°58	10°23	24°9	22°11	11°3	25°31	26°1	4°29	22°34	22°23	21°34	18°11	S 17
S 18	3 49 16	26°5'00	23°38	8°21	11°10	23°53	22°20	11°3	25°29	26°2	4°28	22°34	22°20	21°40	18°15	S 18
M19	3 53 13	27°5'43	8♊4	9°45	11°59	23°37	22°29	11°4	25°26	26°4	4°26	22°35	22°17	21°47	18°19	M19
T 20	3 57 9	28°6'28	22°33	11°11	12°48	23°20	22°37	11°4	25°24	26°5	4°25	22°35	22°14	21°54	18°23	T 20
W21	4 1 6	29°7'15	6♍59	12°38	13°39	23°2	22°46	11°5	25°22	26°6	4°24	22°36	22°11	22°0	18°27	W21
T 22	4 5 3	0♉8'03	21°17	14°7	14°30	22°44	22°54	11°6	25°20	26°7	4°23	22°R36	22°7	22°7	18°31	T 22
F 23	4 8 59	1°8'52	5♉22	15°36	15°21	22°25	23°2	11°6	25°17	26°9	4°22	22°36	22°4	22°14	18°35	F 23
S 24	4 12 56	2°9'42	19°10	17°6	16°14	22°5	23°10	11°7	25°15	26°10	4°21	22°35	22°1	22°21	18°39	S 24
S 25	4 16 52	3°10'34	2♋38	18°36	17°7	21°45	23°18	11°9	25°13	26°11	4°20	22°34	21°58	22°27	18°43	S 25
M26	4 20 49	4°11'27	15°45	20°7	18°1	21°24	23°26	11°10	25°11	26°12	4°20	22°32	21°55	22°34	18°48	M26
T 27	4 24 45	5°12'20	28°30	21°38	18°56	21°3	23°34	11°11	25°8	26°13	4°19	22°30	21°52	22°41	18°52	T 27
W28	4 28 42	6°13'15	10♋57	23°10	19°51	20°41	23°41	11°13	25°6	26°14	4°18	22°29	21°48	22°47	18°56	W28
T 29	4 32 38	7°14'10	23°9	24°42	20°47	20°19	23°49	11°14	25°3	26°15	4°17	22°28	21°45	22°54	19°1	T 29
F 30	4 36 35	8♉15'06	5♋9	26♍14	21♉43	19♊56	23♊56	11♋16	25♊1	26♊16	4♋16	22°D27	21♋42	23♋1	19♋5	F 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s31	21s18	5s14	8s58	1n19	1s27	1s27	24n15	0n49	5n 7	1n 5	9s25	2s12	23n36	0n10	2n56	1n17	2s28	16s32	18n29	18n37	8s17	15s39	6n46			
F 2	14 50	17 24	5 15	8 36	1 33	1 27	1 16	24 18	0 51	5 3	1 5	9 26	2 12	23 36	0 10	2 55	1 17	2 28	16 32	18 29	18 37	8 14	15 39	6 46			
S 3	15 9	12 52	5 3	8 19	1 45	1 29	1 5	24 21	0 54	4 59	1 5	9 26	2 12	23 36	0 10	2 54	1 17	2 29	16 32	18 28	18 36	8 11	15 39	6 45			
S 4	15 28	7 52	4 39	8 9	1 55	1 31	0 54	24 23	0 57	4 55	1 5	9 26	2 12	23 36	0 10	2 54	1 17	2 29	16 32	18 28	18 35	8 8	15 39	6 45			
M 5	15 46	2 34	4 2	8 4	2 3	1 35	0 44	24 26	1 0	4 52	1 6	9 27	2 12	23 36	0 10	2 53	1 17	2 29	16 32	18 28	18 34	8 5	15 39	6 44			
T 6	16 4	2n52	3 14	8 4	2 10	1 39	0 34	24 29	1 3	4 48	1 6	9 27	2 12	23 35	0 10	2 53	1 17	2 30	16 32	18 27	18 33	8 2	15 40	6 44			
W 7	16 22	8 16	2 17	8 10	2 15	1 44	0 24	24 31	1 6	4 44	1 6	9 27	2 11	23 35	0 10	2 52	1 17	2 30	16 32	18 27	18 33	7 59	15 40	6 44			
T 8	16 40	13 27	1 13	8 20	2 18	1 49	0 14	24 34	1 9	4 40	1 6	9 27	2 11	23 35	0 10	2 51	1 17	2 30	16 32	18 27	18 32	7 56	15 40	6 43			
F 9	16 57	18 9	0 5	8 34	2 20	1 56	0 5	24 37	1 12	4 37	1 6	9 27	2 11	23 35	0 10	2 51	1 17	2 30	16 31	18 27	18 31	7 53	15 40	6 43			
S 10	17 14	22 8	1n 5	8 51	2 21	2 3	0n 4	24 40	1 15	4 33	1 7	9 27	2 11	23 35	0 10	2 50	1 18	2 31	16 31	18 27	18 30	7 50	15 40	6 42			
S 11	17 31	25 5	2 13	9 12	2 21	2 11	0 13	24 42	1 18	4 29	1 7	9 27	2 11	23 35	0 10	2 50	1 18	2 31	16 31	18 27	18 29	7 47	15 40	6 42			
M12	17 47	26 44	3 15	9 35	2 19	2 20	0 21	24 45	1 20	4 26	1 7	9 27	2 11	23 35	0 10	2 49	1 18	2 31	16 31	18 27	18 28	7 44	15 40	6 41			
T 13	18 3	26 53	4 7	10 0	2 17	2 29	0 29	24 47	1 23	4 22	1 7	9 27	2 10	23 35	0 10	2 49	1 18	2 31	16 31	18 27	18 28	7 41	15 39	6 41			
W14	18 19	25 26	4 47	10 28	2 14	2 39	0 37	24 50	1 26	4 19	1 7	9 27	2 10	23 35	0 10	2 48	1 18	2 32	16 31	18 27	18 27	7 38	15 39	6 41			
T 15	18 35	22 27	5 11	10 56	2 11	2 50	0 45	24 52	1 29	4 15	1 8	9 27	2 10	23 35	0 10	2 48	1 18	2 32	16 31	18 27	18 26	7 35	15 39	6 40			
F 16	18 50	18 9	5 17	11 26	2 6	3 1	0 52	24 55	1 32	4 12	1 8	9 26	2 10	23 35	0 10	2 47	1 18	2 32	16 31	18 27	18 25	7 32	15 39	6 40			
S 17	19 4	12 47	5 4	11 57	2 2	3 12	0 59	24 57	1 35	4 9	1 8	9 26	2 10	23 35	0 10	2 47	1 18	2 32	16 31	18 27	18 24	7 29	15 39	6 40			
S 18	19 19	6 42	4 32	12 29	1 56	3 25	1 6	24 59	1 38	4 5	1 8	9 26	2 9	23 35	0 10	2 46	1 18	2 32	16 30	18 27	18 24	7 26	15 39	6 39			
M19	19 33	0 12	3 43	13 1	1 51	3 38	1 13	25 2	1 41	4 2	1 8	9 26	2 9	23 35	0 10	2 46	1 18	2 33	16 30	18 27	18 23	7 23	15 39	6 39			
T 20	19 47	6s20	2 39	13 33	1 45	3 51	1 19	25 4	1 44	3 59	1 9	9 25	2 9	23 35	0 10	2 45	1 18	2 33	16 30	18 27	18 22	7 20	15 39	6 38			
W21	20 0	12 32	1 26	14 6	1 39	4 5	1 26	25 6	1 47	3 56	1 9	9 25	2 9	23 35	0 10	2 45	1 18	2 33	16 30	18 28	18 21	7 17	15 39	6 38			
T 22	20 13	18 0	0 7	14 38	1 32	4 19	1 31	25 8	1 50	3 53	1 9	9 24	2 9	23 35	0 10	2 44	1 18	2 33	16 30	18 28	18 20	7 14	15 38	6 38			
F 23	20 26	22 24	1s10	15 11	1 26	4 34	1 37	25 9	1 53	3 50	1 9	9 24	2 9	23 35	0 10	2 44	1 18	2 33	16 30	18 28	18 20	7 11	15 38	6 37			
S 24	20 38	25 24	2 22	15 43	1 19	4 49	1 43	25 11	1 56	3 47	1 10	9 23	2 8	23 35	0 10	2 43	1 18	2 33	16 29	18 27	18 19	7 7	15 38	6 37			
S 25	20 50	26 52	3 24	16 15	1 12	5 5	1 48	25 13	1 59	3 44	1 10	9 23	2 8	23 34	0 10	2 43	1 18	2 34	16 29	18 27	18 18	7 4	15 38	6 37			
M26	21 2	26 45	4 13	16 46	1 5	5 21	1 53	25 14	2 2	3 41	1 10	9 22	2 8	23 34	0 10	2 43	1 18	2 34	16 29	18 27	18 17	7 1	15 38	6 36			
T 27	21 13	25 13	4 49	17 17	0 58	5 37	1 58	25 15	2 5	3 38	1 10	9 21	2 8	23 34	0 10	2 42	1 18	2 34	16 29	18 26	18 16	6 58	15 37	6 36			
W28	21 24	22 29	5 10	17 47	0 51	5 53	2 2	25 17	2 7	3 35	1 10	9 21	2 8	23 34	0 10	2 42	1 18	2 34	16 29	18 26	18 15	6 55	15 37	6 36			
T 29	21 34	18 48	5 16	18 17	0 44	6 10	2 7	25 18	2 10	3 33	1 11	9 20	2 8	23 34	0 10	2 41	1 18	2 34	16 28	18 26	18 15	6 52	15 37	6 35			
F 30	21s44	14s25	5s 8	18s46	0n37	6s27	2n11	25n19	2n13	3n30	1n11	9s19	2s 7	23n34	0n10	2n41	1n18	2s34	16s28	18n25	18n14	6s49	15s36	6n35			

ASTRODIENST EPHEMERIS for the year 1612
geocentric

DECEMBER 1612 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 40 32	9♂16'03	17♂ 2	27♂47	22♂40	19°R34	24♂ 3	11♂18	24°R59	26♂17	4°R15	22♂27	21♂39	23♂ 7	19♂ 9	S 1
S 2	4 44 28	10°17'00	28°54	29°19	23°38	19°II11	24°10	11°19	24°II56	26°18	4♂14	22°28	21°36	23°14	19°14	S 2
M 3	4 48 25	11°17'58	10°V48	0♂52	24°36	18°48	24°17	11°21	24°54	26°19	4°13	22°30	21°33	23°21	19°18	M 3
T 4	4 52 21	12°18'57	22°49	2°25	25°34	18°24	24°23	11°23	24°51	26°20	4°12	22°31	21°29	23°28	19°23	T 4
W 5	4 56 18	13°19'56	5♂ 1	3°57	26°33	18° 1	24°30	11°26	24°49	26°20	4°11	22°33	21°26	23°34	19°28	W 5
T 6	5 0 14	14°20'56	17°28	5°30	27°33	17°37	24°36	11°28	24°46	26°21	4°11	22°R34	21°23	23°41	19°32	T 6
F 7	5 4 11	15°21'57	0°II12	7° 4	28°33	17°14	24°42	11°30	24°44	26°22	4°10	22°33	21°20	23°48	19°37	F 7
S 8	5 8 7	16°22'59	13°13	8°37	29°33	16°50	24°48	11°33	24°41	26°23	4° 9	22°32	21°17	23°54	19°42	S 8
S 9	5 12 4	17°24'01	26°32	10°10	0♂34	16°27	24°54	11°35	24°39	26°23	4° 8	22°30	21°13	24° 1	19°46	S 9
M10	5 16 1	18°25'04	10♂ 6	11°44	1°36	16° 4	25° 0	11°38	24°36	26°24	4° 7	22°26	21°10	24° 8	19°51	M10
T 11	5 19 57	19°26'08	23°54	13°17	2°37	15°41	25° 6	11°41	24°33	26°25	4° 7	22°22	21° 7	24°14	19°56	T 11
W12	5 23 54	20°27'13	7♂52	14°51	3°40	15°18	25°11	11°43	24°31	26°25	4° 6	22°17	21° 4	24°21	20° 1	W12
T 13	5 27 50	21°28'19	21°57	16°25	4°42	14°56	25°16	11°46	24°28	26°26	4° 5	22°14	21° 1	24°28	20° 6	T 13
F 14	5 31 47	22°29'25	6♂ 1	17°59	5°45	14°33	25°22	11°49	24°26	26°26	4° 4	22°11	20°58	24°35	20°11	F 14
S 15	5 35 43	23°30'32	20°16	19°33	6°48	14°12	25°27	11°53	24°23	26°27	4° 4	22°D10	20°54	24°41	20°16	S 15
S 16	5 39 40	24°31'40	4♂25	21° 7	7°52	13°50	25°31	11°56	24°21	26°27	4° 3	22°11	20°51	24°48	20°21	S 16
M17	5 43 36	25°32'48	18°31	22°42	8°56	13°29	25°36	11°59	24°18	26°28	4° 2	22°12	20°48	24°55	20°26	M17
T 18	5 47 33	26°33'57	2♂34	24°16	10° 0	13° 9	25°40	12° 3	24°15	26°28	4° 2	22°13	20°45	25° 1	20°31	T 18
W19	5 51 30	27°35'07	16°30	25°51	11° 5	12°49	25°45	12° 6	24°13	26°28	4° 1	22°R14	20°42	25° 8	20°36	W19
T 20	5 55 26	28°36'18	0♂20	27°27	12° 9	12°30	25°49	12°10	24°10	26°29	4° 1	22°14	20°39	25°15	20°41	T 20
F 21	5 59 23	29°37'29	13°59	29° 2	13°15	12°11	25°53	12°13	24° 8	26°29	4° 0	22°12	20°35	25°21	20°46	F 21
S 22	6 3 19	0♂38'40	27°27	0♂38	14°20	11°53	25°57	12°17	24° 5	26°29	3°59	22° 8	20°32	25°28	20°51	S 22
S 23	6 7 16	1°39'52	10♂40	2°14	15°26	11°35	26° 0	12°21	24° 3	26°29	3°59	22° 3	20°29	25°35	20°56	S 23
M24	6 11 12	2°41'04	23°38	3°50	16°31	11°18	26° 4	12°25	24° 0	26°29	3°58	21°55	20°26	25°42	21° 1	M24
T 25	6 15 9	3°42'15	6♂19	5°27	17°38	11° 2	26° 7	12°29	23°57	26°30	3°58	21°47	20°23	25°48	21° 6	T 25
W26	6 19 6	4°43'27	18°45	7° 4	18°44	10°47	26°10	12°33	23°55	26°30	3°57	21°40	20°20	25°55	21°11	W26
T 27	6 23 2	5°44'38	0♂56	8°41	19°51	10°32	26°13	12°38	23°52	26°30	3°57	21°33	20°16	26° 2	21°17	T 27
F 28	6 26 59	6°45'50	12°56	10°19	20°57	10°19	26°15	12°42	23°50	26°R30	3°56	21°28	20°13	26° 8	21°22	F 28
S 29	6 30 55	7°47'00	24°49	11°56	22° 4	10° 6	26°18	12°46	23°47	26°30	3°56	21°25	20°10	26°15	21°27	S 29
S 30	6 34 52	8°48'11	6°V39	13°35	23°12	9°53	26°20	12°51	23°45	26°30	3°56	21°D24	20° 7	26°22	21°32	S 30
M31	6 38 48	9♂49'21	18°V32	15♂13	24♂19	9°II42	26♂22	12♂55	23°II43	26♂30	3♂55	21°B24	20♂ 4	26♂28	21♂38	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	21s53	9s32	4s48	19s14	0n29	6s45	2n15	25n19	2n15	3n27	1n11	9s18	2s 7	23n34	0n10	2n41	1n18	2s34	16s28	18n25	18n13	6s46	15s36	6n35			
S 2	22 2	4 20	4 15	19 41	0 22	7 3	2 19	25 20	2 18	3 25	1 11	9 17	2 7	23 34	0 10	2 41	1 19	2 34	16 28	18 26	18 12	6 43	15 36	6 34			
M 3	22 11	1n 3	3 30	20 8	0 15	7 21	2 22	25 21	2 20	3 22	1 12	9 16	2 7	23 34	0 10	2 40	1 19	2 34	16 28	18 26	18 11	6 40	15 36	6 34			
T 4	22 19	6 28	2 37	20 33	0 8	7 39	2 26	25 21	2 23	3 20	1 12	9 16	2 7	23 34	0 10	2 40	1 19	2 34	16 27	18 26	18 10	6 37	15 35	6 34			
W 5	22 27	11 44	1 35	20 58	0 1	7 57	2 29	25 21	2 25	3 18	1 12	9 15	2 6	23 34	0 10	2 40	1 19	2 34	16 27	18 27	18 10	6 34	15 35	6 34			
T 6	22 34	16 38	0 28	21 22	0s 6	8 16	2 32	25 21	2 27	3 15	1 12	9 14	2 6	23 34	0 10	2 39	1 19	2 35	16 27	18 27	18 9	6 30	15 34	6 33			
F 7	22 41	20 55	0n42	21 44	0 12	8 34	2 35	25 21	2 29	3 13	1 13	9 12	2 6	23 33	0 10	2 39	1 19	2 35	16 27	18 27	18 8	6 27	15 34	6 33			
S 8	22 48	24 16	1 51	22 6	0 19	8 53	2 37	25 21	2 31	3 11	1 13	9 11	2 6	23 33	0 10	2 39	1 19	2 35	16 26	18 27	18 7	6 24	15 34	6 33			
S 9	22 54	26 23	2 56	22 27	0 26	9 12	2 40	25 21	2 33	3 9	1 13	9 10	2 6	23 33	0 10	2 39	1 19	2 35	16 26	18 26	18 6	6 21	15 33	6 33			
M10	22 59	26 57	3 52	22 46	0 32	9 31	2 42	25 20	2 35	3 7	1 13	9 9	2 6	23 33	0 10	2 38	1 19	2 35	16 26	18 25	18 5	6 18	15 33	6 32			
T 11	23 4	25 53	4 35	23 5	0 39	9 51	2 44	25 20	2 37	3 5	1 14	9 8	2 5	23 33	0 10	2 38	1 19	2 35	16 26	18 24	18 5	6 15	15 32	6 32			
W12	23 9	23 13	5 3	23 22	0 45	10 10	2 46	25 19	2 39	3 3	1 14	9 7	2 5	23 33	0 10	2 38	1 19	2 35	16 25	18 23	18 4	6 12	15 32	6 32			
T 13	23 13	19 9	5 13	23 39	0 51	10 29	2 47	25 18	2 41	3 1	1 14	9 5	2 5	23 33	0 10	2 38	1 19	2 35	16 25	18 22	18 3	6 9	15 31	6 32			
F 14	23 17	14 0	5 4	23 54	0 57	10 49	2 49	25 17	2 42	2 59	1 14	9 4	2 5	23 33	0 10	2 38	1 19	2 34	16 25	18 21	18 2	6 6	15 31	6 31			
S 15	23 20	8 6	4 36	24 7	1 3	11 8	2 50	25 16	2 44	2 57	1 15	9 3	2 5	23 33	0 10	2 38	1 19	2 34	16 25	18 21	18 1	6 2	15 30	6 31			
S 16	23 23	1 47	3 52	24 20	1 8	11 27	2 52	25 15	2 45	2 56	1 15	9 1	2 5	23 33	0 10	2 37	1 19	2 34	16 24	18 21	18 0	5 59	15 30	6 31			
M17	23 25	4s36	2 54	24 31	1 14	11 47	2 53	25 14	2 47	2 54	1 15	9 0	2 4	23 33	0 10	2 37	1 19	2 34	16 24	18 21	18 0	5 56	15 29	6 31			
T 18	23 27	10 44	1 45	24 41	1 19	12 6	2 54	25 12	2 48	2 53	1 15	8 58	2 4	23 32	0 10	2 37	1 19	2 34	16 24	18 22	17 59	5 53	15 29	6 31			
W19	23 28	16 19	0 31	24 50	1 24	12 25	2 54	25 11	2 49	2 51	1 16	8 57	2 4	23 32	0 10	2 37	1 19	2 34	16 23	18 22	17 58	5 50	15 28	6 31			
T 20	23 29	20 59	0s44	24 57	1 29	12 44	2 55	25 10	2 50	2 50	1 16	8 55	2 4	23 32	0 10	2 37	1 19	2 34	16 23	18 22	17 57	5 47	15 28	6 30			
F 21	23 29	24 26	1 56	25 3	1 33	13 4	2 55	25 8	2 52	2 48	1 16	8 54	2 4	23 32	0 10	2 37	1 20	2 34	16 23	18 22	17 56	5 44	15 27	6 30			
S 22	23 29	26 27	3 0	25 7	1 38	13 23	2 56	25 7	2 53	2 47	1 17	8 52	2 4	23 32	0 11	2 37	1 20	2 34	16 22	18 21	17 55	5 41	15 27	6 30			
S 23	23 29	26 55	3 52	25 10	1 42	13 41	2 56	25 5	2 53	2 46	1 17	8 50	2 3	23 32	0 11	2 37	1 20	2 34	16 22	18 19	17 55	5 37	15 26	6 30			
M24	23 28	25 53	4 32	25 12	1 46	14 0	2 56	25 4	2 54	2 45	1 17	8 49	2 3	23 32	0 11	2 37	1 20	2 34	16 22	18 17	17 54	5 34	15 25	6 30			
T 25	23 26	23 32	4 58	25 12	1 49	14 19	2 56	25 2	2 55	2 44	1 17	8 47	2 3	23 32	0 11	2 37	1 20	2 33	16 22	18 15	17 53	5 31	15 25	6 30			
W26	23 24	20 7	5 8	25 11	1 53	14 37	2 56	25 0	2 56	2 43	1 18	8 45	2 3	23 32	0 11	2 37	1 20	2 33	16 21	18 13	17 52	5 28	15 24	6 29			
T 27	23 22	15 54	5 4	25 8	1 56	14 55	2 55	24 59	2 56	2 42	1 18	8 44	2 3	23 31	0 11	2 37	1 20	2 33	16 21	18 11	17 51	5 25	15 23	6 29			
F 28	23 19	11 8	4 47	25 3	1 58	15 14	2 55	24 57	2 57	2 41	1 18	8 42	2 3	23 31	0 11	2 37	1 20	2 33	16 21	18 10	17 50	5 22	15 23	6 29			
S 29	23 16	6 1	4 18	24 57	2 1	15 31	2 54	24 56	2 57	2 40	1 19	8 40	2 3	23 31	0 11	2 37	1 20	2 33	16 20	18 9	17 49	5 19	15 22	6 29			
S 30	23 12	0 41	3 38	24 50	2 3	15 49	2 53	24 54	2 58	2 40	1 19	8 38	2 2	23 31	0 11	2 37	1 20	2 33	16 20	18 9	17 49	5 15	15 21	6 29			
M31	23s 8	4n41	2s48	24s41	2s 4	16s 6	2n52	24n53	2n58	2n39	1n19	8s36	2s 2	23n31	0n11	2n37	1n20	2s33	16s20	18n 9	17n48	5s12	15s21	6n29			