



Astrodienst Ephemeris Tables for the year 1636

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 1636
geocentric

JANUARY 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 40 31	10 ³ 14'45	18 ² 11	18 ² 37	17 ³ 0	15 ² 10	5°R 0	5 ³ 45	13 ² 51	16 ¹ 2	25°R53	23°R54	25 ² 12	2 ¹ 12	29°R54	T 1
W 2	6 44 28	11°15'56	0 ¹ 2	19° 5	18°15	15°38	4 ¹ 58	5°52	13°52	16° 3	25 ² 52	23 ² 52	25° 9	2°19	29°Y53	W 2
T 3	6 48 24	12°17'06	11°54	19°40	19°30	16° 7	4°56	5°59	13°53	16° 5	25°52	23°48	25° 6	2°26	29°53	T 3
F 4	6 52 21	13°18'16	23°52	20°20	20°46	16°35	4°53	6° 6	13°54	16° 6	25°51	23°42	25° 2	2°32	29°53	F 4
S 5	6 56 17	14°19'27	6 ² 0	21° 6	22° 1	17° 3	4°51	6°13	13°55	16° 7	25°50	23°35	24°59	2°39	29°52	S 5
S 6	7 0 14	15°20'37	18°21	21°55	23°17	17°31	4°48	6°20	13°56	16° 9	25°49	23°28	24°56	2°46	29°52	S 6
M 7	7 4 11	16°21'48	0 ³ 54	22°49	24°32	17°59	4°44	6°27	13°56	16°10	25°49	23°20	24°53	2°53	29°52	M 7
T 8	7 8 7	17°22'57	13°42	23°46	25°47	18°26	4°41	6°34	13°57	16°12	25°48	23°14	24°50	2°59	29°52	T 8
W 9	7 12 4	18°24'07	26°44	24°47	27° 3	18°53	4°38	6°41	13°58	16°13	25°47	23°10	24°47	3° 6	29°D52	W 9
T 10	7 16 0	19°25'16	9 ² 59	25°51	28°18	19°21	4°34	6°48	13°58	16°14	25°47	23° 7	24°43	3°13	29°52	T 10
F 11	7 19 57	20°26'24	23°26	26°57	29°33	19°47	4°30	6°55	13°59	16°15	25°46	23°D 7	24°40	3°20	29°52	F 11
S 12	7 23 53	21°27'32	7 ² 4	28° 5	0 ² 49	20°14	4°26	7° 2	13°59	16°17	25°46	23° 7	24°37	3°26	29°52	S 12
S 13	7 27 50	22°28'39	20°51	29°16	2° 4	20°40	4°22	7° 9	13°59	16°18	25°45	23° 9	24°34	3°33	29°52	S 13
M14	7 31 46	23°29'45	4 ² Y46	0 ³ 28	3°19	21° 7	4°17	7°16	14° 0	16°19	25°45	23°10	24°31	3°40	29°52	M14
T 15	7 35 43	24°30'50	18°49	1°42	4°35	21°32	4°13	7°22	14° 0	16°20	25°44	23°R11	24°27	3°46	29°53	T 15
W16	7 39 40	25°31'54	2 ² 59	2°58	5°50	21°58	4° 8	7°29	14° 0	16°21	25°43	23°11	24°24	3°53	29°53	W16
T 17	7 43 36	26°32'57	17°13	4°15	7° 5	22°24	4° 3	7°36	14° 0	16°22	25°43	23°10	24°21	4° 0	29°53	T 17
F 18	7 47 33	27°34'00	1 ² II29	5°34	8°21	22°49	3°58	7°43	14°R 0	16°23	25°43	23° 7	24°18	4° 7	29°54	F 18
S 19	7 51 29	28°35'01	15°44	6°54	9°36	23°14	3°53	7°50	14° 0	16°24	25°42	23° 4	24°15	4°13	29°54	S 19
S 20	7 55 26	29°36'01	29°53	8°15	10°51	23°38	3°48	7°56	14° 0	16°25	25°42	23° 0	24°12	4°20	29°55	S 20
M21	7 59 22	0 ² 37'00	13 ² 53	9°37	12° 6	24° 3	3°42	8° 3	14° 0	16°26	25°41	22°57	24° 8	4°27	29°56	M21
T 22	8 3 19	1°37'58	27°38	11° 0	13°22	24°27	3°37	8°10	14° 0	16°27	25°41	22°54	24° 5	4°33	29°56	T 22
W23	8 7 15	2°38'56	11°12	12°24	14°37	24°51	3°31	8°17	13°59	16°28	25°40	22°53	24° 2	4°40	29°57	W23
T 24	8 11 12	3°39'52	24°17	13°50	15°52	25°15	3°25	8°23	13°59	16°29	25°40	22°D52	23°59	4°47	29°58	T 24
F 25	8 15 9	4°40'47	7 ¹ 8	15°16	17° 7	25°38	3°19	8°30	13°59	16°29	25°40	22°53	23°56	4°54	29°59	F 25
S 26	8 19 5	5°41'42	19°41	16°42	18°22	26° 1	3°13	8°36	13°58	16°30	25°40	22°54	23°52	5° 0	0 ² 0	S 26
S 27	8 23 2	6°42'36	1 ² 58	18°10	19°37	26°24	3° 6	8°43	13°58	16°31	25°39	22°56	23°49	5° 7	0° 1	S 27
M28	8 26 58	7°43'28	14° 2	19°39	20°52	26°46	3° 0	8°49	13°58	16°31	25°39	22°57	23°46	5°14	0° 2	M28
T 29	8 30 55	8°44'20	25°58	21° 8	22° 8	27° 8	2°53	8°56	13°57	16°32	25°39	22°58	23°43	5°20	0° 3	T 29
W30	8 34 51	9°45'11	7 ¹ 50	22°38	23°23	27°30	2°47	9° 2	13°56	16°33	25°38	22°R59	23°40	5°27	0° 5	W30
T 31	8 38 48	10 ² 46'02	19 ¹ 44	24 ² 3	24 ² 38	27 ² 52	2 ¹ 40	9 ² 3	13 ² 56	16 ¹ 33	25 ² 38	22 ² 58	23 ² 37	5 ¹ 34	0 ² 6	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s 6	11s 1	4s12	20s20	2n41	23s23	0s59	4s 9	2n 0	10n45	1n 9	22s46	0n36	4s51	0n41	14s59	1n45	6n22	13s15	13s35	13s 9	16s42	10n42	0s49
W 2	23 1	15 55	4 43	20 30	2 33	23 15	1 1	4 19	2 0	10 46	1 9	22 46	0 36	4 52	0 41	14 59	1 46	6 22	13 15	13 36	13 10	16 45	10 42	0 49
T 3	22 55	20 14	5 3	20 41	2 25	23 6	1 3	4 30	2 1	10 48	1 9	22 45	0 36	4 52	0 41	15 0	1 46	6 22	13 15	13 37	13 11	16 48	10 42	0 49
F 4	22 49	23 46	5 9	20 52	2 16	22 57	1 5	4 40	2 1	10 49	1 9	22 45	0 36	4 52	0 41	15 0	1 46	6 22	13 14	13 39	13 12	16 50	10 42	0 49
S 5	22 43	26 19	5 2	21 4	2 8	22 46	1 6	4 50	2 2	10 50	1 10	22 45	0 36	4 53	0 41	15 1	1 46	6 22	13 14	13 41	13 13	16 53	10 41	0 49
S 6	22 36	27 38	4 41	21 16	1 59	22 35	1 8	5 1	2 2	10 51	1 10	22 45	0 36	4 53	0 41	15 1	1 46	6 22	13 14	13 44	13 14	16 56	10 41	0 49
M 7	22 29	27 35	4 6	21 28	1 49	22 24	1 9	5 11	2 2	10 53	1 10	22 44	0 36	4 53	0 41	15 1	1 46	6 23	13 14	13 46	13 15	16 58	10 41	0 49
T 8	22 21	26 4	3 18	21 41	1 40	22 12	1 11	5 21	2 3	10 54	1 10	22 44	0 35	4 53	0 41	15 2	1 46	6 23	13 14	13 48	13 16	17 1	10 41	0 49
W 9	22 13	23 7	2 19	21 52	1 31	21 59	1 12	5 31	2 3	10 56	1 11	22 44	0 35	4 53	0 41	15 2	1 46	6 23	13 13	13 49	13 17	17 4	10 41	0 49
T 10	22 5	18 55	1 11	22 4	1 21	21 45	1 14	5 41	2 4	10 57	1 11	22 43	0 35	4 54	0 41	15 2	1 46	6 23	13 13	13 50	13 18	17 6	10 41	0 49
F 11	21 56	13 42	0n 2	22 15	1 12	21 31	1 15	5 50	2 4	10 59	1 11	22 43	0 35	4 54	0 41	15 3	1 46	6 23	13 13	13 51	13 20	17 9	10 41	0 49
S 12	21 46	7 46	1 16	22 26	1 3	21 16	1 16	6 0	2 5	11 1	1 11	22 43	0 35	4 54	0 41	15 3	1 46	6 23	13 12	13 50	13 21	17 12	10 41	0 49
S 13	21 37	1 24	2 26	22 35	0 54	21 0	1 18	6 9	2 5	11 2	1 12	22 43	0 35	4 54	0 41	15 3	1 46	6 23	13 12	13 50	13 22	17 14	10 41	0 49
M14	21 26	5n 5	3 28	22 45	0 45	20 44	1 19	6 19	2 6	11 4	1 12	22 42	0 35	4 54	0 41	15 3	1 46	6 23	13 12	13 49	13 23	17 17	10 41	0 49
T 15	21 16	11 23	4 19	22 53	0 36	20 27	1 20	6 28	2 6	11 6	1 12	22 42	0 35	4 54	0 41	15 4	1 46	6 24	13 12	13 49	13 24	17 19	10 41	0 49
W16	21 5	17 8	4 54	23 0	0 27	20 10	1 21	6 37	2 7	11 8	1 12	22 42	0 35	4 54	0 41	15 4	1 46	6 24	13 11	13 49	13 25	17 22	10 41	0 49
T 17	20 53	21 59	5 12	23 7	0 18	19 52	1 22	6 46	2 7	11 10	1 13	22 41	0 35	4 54	0 41	15 4	1 46	6 24	13 11	13 49	13 26	17 25	10 41	0 49
F 18	20 41	25 33	5 10	23 12	0 10	19 33	1 23	6 55	2 7	11 12	1 13	22 41	0 35	4 54	0 41	15 4	1 46	6 24	13 11	13 50	13 27	17 27	10 41	0 49
S 19	20 29	27 31	4 49	23 17	0 2	19 14	1 24	7 4	2 8	11 14	1 13	22 41	0 35	4 54	0 41	15 5	1 46	6 24	13 11	13 51	13 28	17 30	10 42	0 49
S 20	20 17	27 41	4 11	23 20	0s 6	18 54	1 25	7 13	2 8	11 16	1 13	22 40	0 35	4 54	0 41	15 5	1 46	6 24	13 10	13 53	13 29	17 32	10 42	0 49
M21	20 4	26 3	3 18	23 23	0 14	18 34	1 26	7 21	2 9	11 19	1 14	22 40	0 35	4 54	0 41	15 5	1 47	6 25	13 10	13 54	13 30	17 35	10 42	0 49
T 22	19 50	22 52	2 15	23 24	0 22	18 13	1 26	7 30	2 9	11 21	1 14	22 40	0 35	4 54	0 41	15 5	1 47	6 25	13 10	13 55	13 31	17 38	10 42	0 49
W23	19 37	18 30	1 4	23 24	0 30	17 52	1 27	7 38	2 10	11 23	1 14	22 39	0 35	4 54	0 41	15 5	1 47	6 25	13 9	13 55	13 32	17 40	10 43	0 49
T 24	19 22	13 20	0s 8	23 23	0 37	17 30	1 28	7 46	2 10	11 26	1 14	22 39	0 35	4 54	0 41	15 6	1 47	6 25	13 9	13 55	13 33	17 43	10 43	0 49
F 25	19 8	7 42	1 18	23 20	0 44	17 8	1 28	7 54	2 10	11 28	1 14	22 38	0 35	4 53	0 41	15 6	1 47	6 25	13 9	13 55	13 34	17 45	10 43	0 49
S 26	18 53	1 55	2 23	23 17	0 51	16 45	1 29	8 2	2 11	11 30	1 15	22 38	0 35	4 53	0 41	15 6	1 47	6 26	13 9	13 55	13 35	17 48	10 43	0 49
S 27	18 38	3s50	3 19	23 12	0 57	16 22	1 29	8 10	2 11	11 33	1 15	22 38	0 34	4 53	0 41	15 6	1 47	6 26	13 8	13 54	13 36	17 50	10 44	0 50
M28	18 23	9 20	4 6	23 6	1 4	15 59	1 29	8 18	2 12	11 35	1 15	22 37	0 34	4 53	0 41	15 6	1 47	6 26	13 8	13 54	13 38	17 53	10 44	0 50
T 29	18 7	14 25	4 42	22 58	1 10	15 35	1 30	8 25	2 12	11 38	1 15	22 37	0 34	4 53	0 41	15 6	1 47	6 26	13 8	13 53	13 39	17 56	10 44	0 50
W30	17 51	18 58	5 5	22 49	1 15	15 10	1 30	8 33	2 13	11 41	1 15	22 37	0 34	4 52	0 41	15 6	1 47	6 27	13 7	13 53	13 40	17 58	10 45	0 50
T 31	17s34	22s46	5s16	22s39	1s21	14s45	1s30	8s40	2n13	11n43	1n16	22s36	0n34	4s52	0n42	15s 7	1n47	6n27	13s 7	13s53	13s41	18s 1	10n45	0s50

ASTRODIENST EPHEMERIS for the year 1636

geocentric

FEBRUARY 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 42 44	11 ⁴⁶ 51	1 ⁴³ 43	25 ³⁴ 41	25 ⁵³ 53	28 ¹³ 13	2°R33	9 ¹⁵ 15	13°R55	16 ³⁴ 34	25°R38	22°R58	23 ³³ 33	5 ⁴¹ 41	0 ⁸ 7	F 1	
S 2	8 46 41	12°47'39	13°52	27°14	27° 8	28°34	2 ²⁶ 26	9°21	13 ⁵⁴ 54	16°34	25 ³⁸ 38	22 ⁵⁶ 56	23°30	5°47	0° 9	S 2	
S 3	8 50 38	13°48'27	26°15	28°47	28°23	28°54	2°19	9°28	13°53	16°35	25°38	22°55	23°27	5°54	0°10	S 3	
M 4	8 54 34	14°49'13	8 ⁵⁵ 55	0 ²¹ 21	29°38	29°14	2°12	9°34	13°53	16°35	25°38	22°54	23°24	6° 1	0°12	M 4	
T 5	8 58 31	15°49'58	21°55	1°56	0 ⁵³ 53	29°34	2° 4	9°40	13°52	16°36	25°38	22°53	23°21	6° 7	0°13	T 5	
W 6	9 2 27	16°50'42	5 ¹³ 13	3°32	2° 8	29°53	1°57	9°46	13°51	16°36	25°38	22°52	23°18	6°14	0°15	W 6	
T 7	9 6 24	17°51'25	18°51	5° 9	3°23	0 ¹² 12	1°50	9°52	13°50	16°37	25°38	22°D52	23°14	6°21	0°17	T 7	
F 8	9 10 20	18°52'06	2 ⁴⁴ 44	6°46	4°38	0°31	1°42	9°58	13°49	16°37	25°37	22°52	23°11	6°28	0°18	F 8	
S 9	9 14 17	19°52'46	16°51	8°25	5°53	0°49	1°35	10° 4	13°47	16°37	25°D37	22°52	23° 8	6°34	0°20	S 9	
S 10	9 18 13	20°53'23	1 ⁵ 5	10° 4	7° 7	1° 7	1°27	10°10	13°46	16°37	25°38	22°53	23° 5	6°41	0°22	S 10	
M 11	9 22 10	21°54'00	15°25	11°44	8°22	1°24	1°19	10°16	13°45	16°38	25°38	22°53	23° 2	6°48	0°24	M 11	
T 12	9 26 7	22°54'34	29°45	13°24	9°37	1°41	1°12	10°22	13°44	16°38	25°38	22°R53	22°58	6°54	0°26	T 12	
W 13	9 30 3	23°55'07	14 ⁸ 8	15° 6	10°52	1°57	1° 4	10°28	13°42	16°38	25°38	22°53	22°55	7° 1	0°28	W 13	
T 14	9 34 0	24°55'38	28°13	16°49	12° 7	2°13	0°56	10°33	13°41	16°38	25°38	22°D53	22°52	7° 8	0°30	T 14	
F 15	9 37 56	25°56'07	12 ¹⁶ 16	18°33	13°21	2°29	0°48	10°39	13°40	16°38	25°38	22°53	22°49	7°15	0°32	F 15	
S 16	9 41 53	26°56'34	26° 9	20°17	14°36	2°44	0°40	10°45	13°38	16°38	25°38	22°53	22°46	7°21	0°34	S 16	
S 17	9 45 49	27°56'59	9 ⁵¹ 51	22° 3	15°51	2°58	0°32	10°50	13°37	16°R38	25°38	22°54	22°43	7°28	0°36	S 17	
M 18	9 49 46	28°57'22	23°22	23°49	17° 5	3°13	0°25	10°56	13°35	16°38	25°38	22°54	22°39	7°35	0°39	M 18	
T 19	9 53 42	29°57'44	6 ⁴⁰ 40	25°36	18°20	3°26	0°17	11° 1	13°33	16°38	25°39	22°55	22°36	7°41	0°41	T 19	
W 20	9 57 39	0 ⁵⁸ 58	19°44	27°25	19°35	3°39	0° 9	11° 7	13°32	16°38	25°39	22°R55	22°33	7°48	0°43	W 20	
T 21	10 1 36	1°58'21	2 ³⁶ 36	29°14	20°49	3°52	0° 1	11°12	13°30	16°38	25°39	22°55	22°30	7°55	0°46	T 21	
F 22	10 5 32	2°58'37	15°13	1 ⁴ 4	22° 4	4° 4	29 ⁵³ 53	11°17	13°28	16°38	25°39	22°54	22°27	8° 2	0°48	F 22	
S 23	10 9 29	3°58'51	27°38	2°55	23°18	4°15	29°45	11°22	13°27	16°38	25°40	22°53	22°24	8° 8	0°51	S 23	
S 24	10 13 25	4°59'04	9 ⁵¹ 51	4°48	24°33	4°26	29°37	11°27	13°25	16°37	25°40	22°51	22°20	8°15	0°53	S 24	
M 25	10 17 22	5°59'15	21°54	6°41	25°47	4°37	29°30	11°32	13°23	16°37	25°40	22°49	22°17	8°22	0°56	M 25	
T 26	10 21 18	6°59'24	3 ⁵⁰ 50	8°35	27° 2	4°47	29°22	11°37	13°21	16°37	25°41	22°47	22°14	8°28	0°59	T 26	
W 27	10 25 15	7°59'32	15°43	10°29	28°16	4°56	29°14	11°42	13°19	16°37	25°41	22°46	22°11	8°35	1° 1	W 27	
T 28	10 29 11	8°59'38	27°36	12°25	29°30	5° 5	29° 6	11°47	13°17	16°36	25°42	22°44	22° 8	8°42	1° 4	T 28	
F 29	10 33 8	9 ⁵⁹ 59	9 ³⁴ 34	14 ²¹ 21	0°Y45	5 ¹³ 13	28 ⁵⁹ 59	11 ⁵² 52	13 ¹⁵ 15	16 ³⁶ 36	25 ⁴² 42	22°D44	22 ⁸ 8	8 ⁴⁹ 49	1 ⁸ 7	F 29	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17s17	25s39	5s13	22s28	1s26	14s20	1s30	8s47	2n13	11n46	1n16	22s36	0n34	4s52	0n42	15s 7	F 1
S 2	17 0	27 24	4 56	22 15	1 31	13 54	1 30	8 54	2 14	11 49	1 16	22 35	0 34	4 51	0 42	15 7	S 2
S 3	16 43	27 51	4 25	22 1	1 36	13 28	1 30	9 1	2 14	11 51	1 16	22 35	0 34	4 51	0 42	15 7	S 3
M 4	16 25	26 51	3 40	21 45	1 40	13 2	1 30	9 8	2 15	11 54	1 16	22 35	0 34	4 51	0 42	15 7	M 4
T 5	16 7	24 23	2 43	21 28	1 44	12 35	1 30	9 14	2 15	11 57	1 16	22 34	0 34	4 50	0 42	15 7	T 5
W 6	15 49	20 33	1 36	21 9	1 48	12 8	1 29	9 21	2 15	12 0	1 17	22 34	0 34	4 50	0 42	15 7	W 6
T 7	15 31	15 34	0 22	20 49	1 52	11 40	1 29	9 27	2 16	12 2	1 17	22 33	0 34	4 49	0 42	15 7	T 7
F 8	15 12	9 40	0n54	20 28	1 55	11 12	1 29	9 33	2 16	12 5	1 17	22 33	0 34	4 49	0 42	15 7	F 8
S 9	14 53	3 13	2 9	20 5	1 57	10 44	1 28	9 39	2 16	12 8	1 17	22 32	0 34	4 49	0 42	15 7	S 9
S 10	14 34	3n26	3 16	19 41	2 0	10 16	1 28	9 45	2 17	12 11	1 17	22 32	0 34	4 48	0 42	15 7	S 10
M 11	14 14	9 57	4 12	19 15	2 2	9 48	1 27	9 50	2 17	12 14	1 17	22 32	0 34	4 48	0 42	15 7	M 11
T 12	13 54	15 57	4 52	18 48	2 3	9 19	1 26	9 56	2 18	12 17	1 17	22 31	0 34	4 47	0 42	15 7	T 12
W 13	13 35	21 4	5 13	18 19	2 5	8 50	1 26	10 1	2 18	12 20	1 18	22 31	0 34	4 47	0 42	15 7	W 13
T 14	13 14	24 56	5 16	17 49	2 6	8 20	1 25	10 6	2 18	12 22	1 18	22 30	0 34	4 46	0 42	15 7	T 14
F 15	12 54	27 15	4 59	17 18	2 6	7 51	1 24	10 11	2 18	12 25	1 18	22 30	0 34	4 45	0 42	15 7	F 15
S 16	12 33	27 51	4 25	16 45	2 6	7 21	1 23	10 16	2 19	12 28	1 18	22 30	0 34	4 45	0 42	15 7	S 16
S 17	12 13	26 43	3 37	16 10	2 6	6 51	1 22	10 21	2 19	12 31	1 18	22 29	0 34	4 44	0 42	15 7	S 17
M 18	11 52	24 2	2 37	15 34	2 5	6 21	1 21	10 26	2 19	12 34	1 18	22 29	0 34	4 44	0 42	15 7	M 18
T 19	11 31	20 5	1 29	14 57	2 3	5 51	1 20	10 30	2 20	12 37	1 18	22 28	0 34	4 43	0 42	15 7	T 19
W 20	11 9	15 12	0 18	14 18	2 2	5 20	1 19	10 34	2 20	12 40	1 18	22 28	0 34	4 42	0 42	15 7	W 20
T 21	10 48	9 45	0s53	13 38	1 59	4 50	1 17	10 38	2 20	12 43	1 18	22 28	0 34	4 42	0 42	15 7	T 21
F 22	10 26	3 59	2 0	12 56	1 57	4 19	1 16	10 42	2 20	12 45	1 18	22 27	0 34	4 41	0 42	15 7	F 22
S 23	10 4	1s49	3 0	12 13	1 53	3 48	1 15	10 46	2 21	12 48	1 18	22 27	0 33	4 40	0 42	15 6	S 23
S 24	9 42	7 27	3 51	11 28	1 49	3 17	1 13	10 49	2 21	12 51	1 18	22 26	0 33	4 40	0 42	15 6	S 24
M 25	9 20	12 44	4 31	10 42	1 45	2 46	1 12	10 52	2 21	12 54	1 19	22 26	0 33	4 39	0 42	15 6	M 25
T 26	8 58	17 30	4 59	9 55	1 40	2 15	1 10	10 56	2 21	12 57	1 19	22 25	0 33	4 38	0 42	15 6	T 26
W 27	8 35	21 34	5 13	9 6	1 35	1 44	1 9	10 59	2 21	12 59	1 19	22 25	0 33	4 37	0 42	15 6	W 27
T 28	8 13	24 46	5 15	8 17	1 28	1 13	1 7	11 1	2 21	13 2	1 19	22 25	0 33	4 36	0 42	15 6	T 28
F 29	7s50	26s54	5s 2	7s26	1s22	0s42	1s 5	11s 4	2n21	13n 5	1n19	22s24	0n33	4s36	0n42	15s 6	F 29

Julian Day Number = 2318627.5, Delta T = 53.26 sec
 Ecliptic obliquity = 23°29'19", Nutation = 0°00'11", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°39'40", Lahiri = 18°46'40"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1636
geocentric

MARCH 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 37 5	10 ^h 59'46	21 ^m 41	16 ^s 17	1 ^h 59	5 ^m 20	28°R51	11 ^s 57	13°R13	16°R35	25 ^s 42	22 ^m 44	22 ^s 1	8 ^m 55	1 ^h 10	S 1
S 2	10 41 1	11°59'47	4 ^s 2	18°14	3°13	5°27	28 ^m 44	12° 1	13 ^s 11	16 ^m 35	25°43	22°45	21°58	9° 2	1°13	S 2
M 3	10 44 58	12°59'47	16°42	20°11	4°27	5°33	28°36	12° 6	13° 9	16°35	25°43	22°47	21°55	9° 9	1°15	M 3
T 4	10 48 54	13°59'45	29°43	22° 8	5°42	5°39	28°29	12°11	13° 7	16°34	25°44	22°48	21°52	9°16	1°18	T 4
W 5	10 52 51	14°59'42	13 ^m 9	24° 5	6°56	5°44	28°21	12°15	13° 5	16°33	25°44	22°50	21°49	9°22	1°21	W 5
T 6	10 56 47	15°59'36	26°59	26° 1	8°10	5°48	28°14	12°19	13° 3	16°33	25°45	22°R50	21°45	9°29	1°24	T 6
F 7	11 0 44	16°59'29	11 ^h 12	27°56	9°24	5°51	28° 7	12°24	13° 1	16°32	25°46	22°49	21°42	9°36	1°27	F 7
S 8	11 4 40	17°59'19	25°44	29°50	10°38	5°54	28° 0	12°28	12°58	16°32	25°46	22°47	21°39	9°42	1°31	S 8
S 9	11 8 37	18°59'08	10 ^h 28	1 ^h 43	11°52	5°56	27°53	12°32	12°56	16°31	25°47	22°43	21°36	9°49	1°34	S 9
M10	11 12 34	19°58'54	25°16	3°34	13° 6	5°57	27°46	12°36	12°54	16°30	25°47	22°39	21°33	9°56	1°37	M10
T 11	11 16 30	20°58'39	10 ^h 8	2	5°22	14°20	5°R58	27°39	12°40	12°51	16°30	25°48	22°35	21°30	10° 3	T 11
W12	11 20 27	21°58'21	24°38	7° 7	15°34	5°58	27°33	12°44	12°49	16°29	25°49	22°32	21°26	10° 9	1°43	W12
T 13	11 24 23	22°58'01	8 ^h 15	9	8°49	16°48	5°57	27°26	12°48	12°47	16°28	25°49	22°30	21°23	10°16	T 13
F 14	11 28 20	23°57'39	23° 2	10°27	18° 1	5°55	27°20	12°51	12°44	16°27	25°50	22°D29	21°20	10°23	1°50	F 14
S 15	11 32 16	24°57'14	6 ^h 47	12° 1	19°15	5°53	27°13	12°55	12°42	16°26	25°51	22°30	21°17	10°29	1°53	S 15
S 16	11 36 13	25°56'47	20°14	13°30	20°29	5°50	27° 7	12°59	12°40	16°26	25°52	22°31	21°14	10°36	1°57	S 16
M17	11 40 9	26°56'17	3 ^h 24	14°54	21°43	5°46	27° 1	13° 2	12°37	16°25	25°52	22°33	21°10	10°43	2° 0	M17
T 18	11 44 6	27°55'46	16°19	16°12	22°56	5°42	26°55	13° 6	12°35	16°24	25°53	22°R34	21° 7	10°50	2° 4	T 18
W19	11 48 3	28°55'12	29° 2	17°25	24°10	5°36	26°50	13° 9	12°32	16°23	25°54	22°34	21° 4	10°56	2° 7	W19
T 20	11 51 59	29°54'35	11 ^h 33	18°31	25°23	5°30	26°44	13°12	12°30	16°22	25°55	22°32	21° 1	11° 3	2°11	T 20
F 21	11 55 56	0 ^h 53'57	23°54	19°30	26°37	5°23	26°38	13°15	12°27	16°21	25°56	22°29	20°58	11°10	2°14	F 21
S 22	11 59 52	1°53'16	6 ^h 47	20°23	27°50	5°16	26°33	13°18	12°25	16°20	25°56	22°23	20°55	11°17	2°18	S 22
S 23	12 3 49	2°52'34	18°12	21° 9	29° 3	5° 7	26°28	13°21	12°22	16°19	25°57	22°16	20°51	11°23	2°21	S 23
M24	12 7 45	3°51'49	0 ^h 11	21°48	0 ^h 17	4°58	26°23	13°24	12°20	16°18	25°58	22° 8	20°48	11°30	2°25	M24
T 25	12 11 42	4°51'03	12° 6	22°19	1°30	4°48	26°18	13°27	12°17	16°17	25°59	22° 0	20°45	11°37	2°28	T 25
W26	12 15 38	5°50'14	23°58	22°43	2°43	4°37	26°13	13°30	12°14	16°15	26° 0	21°53	20°42	11°43	2°32	W26
T 27	12 19 35	6°49'24	5 ^h 45	23° 0	3°57	4°26	26° 9	13°32	12°12	16°14	26° 1	21°47	20°39	11°50	2°36	T 27
F 28	12 23 31	7°48'32	17°47	23°10	5°10	4°14	26° 4	13°35	12° 9	16°13	26° 2	21°43	20°35	11°57	2°39	F 28
S 29	12 27 28	8°47'38	29°52	23°R12	6°23	4° 1	26° 0	13°37	12° 7	16°12	26° 3	21°40	20°32	12° 4	2°43	S 29
S 30	12 31 25	9°46'43	12 ^h 30	23° 8	7°36	3°47	25°56	13°39	12° 4	16°11	26° 4	21°D40	20°29	12°10	2°47	S 30
M31	12 35 21	10 ^h 45'46	24 ^h 45	22 ^h 56	8°49	3 ^h 33	25°52	13 ^h 42	12 ^h 2	16 ^h 9	26 ^h 5	21 ^h 41	20 ^h 26	12 ^h 17	2 ^h 51	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	7s27	27s49	4s36	6s34	1s14	0s11	1s 3	11s 6	2n22	13n 8	1n19	22s24	0n33	4s35	0n42	15s 5
S 2	7 5	27 23	3 57	5 41	1 7	0n21	1 1	11 8	2 22	13 10	1 19	22 23	0 33	4 34	0 42	15 5
M 3	6 42	25 31	3 6	4 47	0 58	0 52	1 0	11 10	2 22	13 13	1 19	22 23	0 33	4 33	0 42	15 5
T 4	6 19	22 16	2 4	3 53	0 49	1 23	0 58	11 12	2 22	13 15	1 19	22 23	0 33	4 32	0 42	15 5
W 5	5 55	17 45	0 53	2 58	0 39	1 54	0 56	11 14	2 22	13 18	1 19	22 22	0 33	4 32	0 42	15 5
T 6	5 32	12 11	0n23	2 2	0 29	2 26	0 53	11 15	2 22	13 20	1 19	22 22	0 33	4 31	0 42	15 4
F 7	5 9	5 51	1 39	1 6	0 19	2 57	0 51	11 16	2 22	13 23	1 19	22 22	0 33	4 30	0 42	15 4
S 8	4 45	0n55	2 51	0 11	0 7	3 28	0 49	11 17	2 21	13 25	1 19	22 21	0 33	4 29	0 42	15 4
S 9	4 22	7 42	3 52	0n45	0n 4	3 59	0 47	11 18	2 21	13 28	1 19	22 21	0 33	4 28	0 42	15 4
M10	3 59	14 6	4 38	1 40	0 16	4 30	0 45	11 19	2 21	13 30	1 19	22 21	0 33	4 27	0 42	15 4
T 11	3 35	19 41	5 5	2 34	0 28	5 1	0 42	11 19	2 21	13 33	1 19	22 20	0 33	4 26	0 42	15 3
W12	3 11	24 1	5 13	3 27	0 41	5 31	0 40	11 19	2 21	13 35	1 19	22 20	0 33	4 25	0 42	15 3
T 13	2 48	26 47	5 0	4 19	0 54	6 2	0 38	11 19	2 21	13 37	1 19	22 19	0 33	4 24	0 42	15 3
F 14	2 24	27 48	4 30	5 10	1 6	6 32	0 35	11 19	2 20	13 39	1 18	22 19	0 33	4 23	0 42	15 2
S 15	2 1	27 3	3 44	5 58	1 19	7 3	0 33	11 19	2 20	13 41	1 18	22 19	0 33	4 23	0 42	15 2
S 16	1 37	24 43	2 47	6 45	1 32	7 33	0 30	11 18	2 20	13 43	1 18	22 19	0 33	4 22	0 42	15 2
M17	1 13	21 6	1 43	7 29	1 44	8 3	0 28	11 17	2 19	13 45	1 18	22 18	0 33	4 21	0 42	15 2
T 18	0 50	16 31	0 34	8 10	1 56	8 33	0 25	11 16	2 19	13 47	1 18	22 18	0 33	4 20	0 42	15 1
W19	0 26	11 17	0s35	8 49	2 8	9 2	0 22	11 15	2 18	13 49	1 18	22 18	0 33	4 19	0 42	15 1
T 20	0 2	5 41	1 41	9 25	2 19	9 32	0 20	11 13	2 18	13 51	1 18	22 17	0 33	4 18	0 42	15 1
F 21	0n21	0s 3	2 42	9 57	2 29	10 1	0 17	11 12	2 17	13 53	1 18	22 17	0 33	4 17	0 42	15 0
S 22	0 45	5 43	3 34	10 26	2 39	10 30	0 14	11 10	2 16	13 55	1 18	22 17	0 33	4 16	0 42	15 0
S 23	1 9	11 6	4 16	10 52	2 48	10 59	0 12	11 7	2 16	13 56	1 18	22 16	0 33	4 15	0 42	15 0
M24	1 32	16 1	4 46	11 14	2 56	11 27	0 9	11 5	2 15	13 58	1 18	22 16	0 33	4 14	0 42	14 59
T 25	1 56	20 18	5 4	11 32	3 3	11 56	0 6	11 3	2 14	14 0	1 18	22 16	0 33	4 13	0 42	14 59
W26	2 19	23 46	5 8	11 46	3 8	12 23	0 3	11 0	2 13	14 1	1 18	22 16	0 33	4 12	0 42	14 59
T 27	2 43	26 14	4 59	11 56	3 13	12 51	0 0	10 57	2 12	14 3	1 17	22 15	0 33	4 11	0 42	14 58
F 28	3 6	27 31	4 37	12 3	3 16	13 18	0n 2	10 54	2 11	14 4	1 17	22 15	0 33	4 10	0 42	14 58
S 29	3 30	27 32	4 3	12 5	3 18	13 45	0 5	10 50	2 10	14 5	1 17	22 15	0 33	4 9	0 42	14 57
S 30	3 53	26 12	3 17	12 4	3 18	14 12	0 8	10 47	2 9	14 7	1 17	22 15	0 33	4 8	0 42	14 57
M31	4n16	23s31	2s20	11n59	3n17	14n39	0n11	10s43	2n 8	14n 8	1n17	22s15	0n33	4s 7	0n42	14s57

Julian Day Number = 2318656.5, Delta T = 53.20 sec
Ecliptic obliquity = 23°29'19, Nutation = 0°00'11, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°39'43, Lahiri = 18°46'44Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1636

geocentric

APRIL 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 39 18	11°44'47"	7°42'	22°R39	10°8' 2	3°R18	25°R48	13°344	11°R59	16°R 8	26°8' 6	21°42	20°23	12°24	2°54	T 1
W 2	12 43 14	12°43'46"	21° 5	22°Y16	11°15	3°M 2	25°Q45	13°46	11°56	16°M 7	26° 7	21°R42	20°20	12°30	2°58	W 2
T 3	12 47 11	13°42'43"	4°56	21°48	12°27	2°46	25°41	13°48	11°54	16° 6	26° 8	21°42	20°16	12°37	3° 2	T 3
F 4	12 51 7	14°41'38"	19°15	21°15	13°40	2°28	25°38	13°50	11°51	16° 4	26° 9	21°39	20°13	12°44	3° 6	F 4
S 5	12 55 4	15°40'32"	3°Y59	20°38	14°53	2°11	25°35	13°51	11°49	16° 3	26°10	21°34	20°10	12°51	3°10	S 5
S 6	12 59 0	16°39'23"	19° 1	19°58	16° 6	1°53	25°32	13°53	11°46	16° 2	26°11	21°26	20° 7	12°57	3°14	S 6
M 7	13 2 57	17°38'13"	4°8'11	19°16	17°18	1°34	25°30	13°55	11°44	16° 0	26°12	21°18	20° 4	13° 4	3°18	M 7
T 8	13 6 54	18°37'00"	19°20	18°32	18°31	1°15	25°27	13°56	11°41	15°59	26°13	21° 9	20° 1	13°11	3°21	T 8
W 9	13 10 50	19°35'46"	4°II18	17°47	19°43	0°55	25°25	13°58	11°38	15°57	26°14	21° 2	19°57	13°17	3°25	W 9
T 10	13 14 47	20°34'29"	18°56	17° 3	20°56	0°35	25°23	13°59	11°36	15°56	26°15	20°56	19°54	13°24	3°29	T 10
F 11	13 18 43	21°33'10"	3°E10	16°20	22° 8	0°14	25°21	14° 0	11°33	15°55	26°17	20°52	19°51	13°31	3°33	F 11
S 12	13 22 40	22°31'49"	16°58	15°38	23°21	29°53	25°19	14° 1	11°31	15°53	26°18	20°D51	19°48	13°38	3°37	S 12
S 13	13 26 36	23°30'25"	0°Q21	14°59	24°33	29°32	25°17	14° 2	11°28	15°52	26°19	20°51	19°45	13°44	3°41	S 13
M14	13 30 33	24°28'59"	13°23	14°23	25°45	29°10	25°16	14° 3	11°26	15°50	26°20	20°51	19°41	13°51	3°45	M14
T 15	13 34 29	25°27'31"	26° 6	13°50	26°57	28°48	25°15	14° 4	11°23	15°49	26°21	20°R51	19°38	13°58	3°49	T 15
W16	13 38 26	26°26'01"	8°M35	13°22	28° 9	28°26	25°14	14° 4	11°21	15°47	26°22	20°50	19°35	14° 5	3°53	W16
T 17	13 42 23	27°24'28"	20°52	12°57	29°21	28° 4	25°13	14° 5	11°18	15°46	26°24	20°46	19°32	14°11	3°57	T 17
F 18	13 46 19	28°22'54"	3°A 0	12°38	0°II33	27°41	25°12	14° 6	11°16	15°44	26°25	20°39	19°29	14°18	4° 1	F 18
S 19	13 50 16	29°21'17"	15° 2	12°23	1°45	27°19	25°12	14° 6	11°14	15°43	26°26	20°30	19°26	14°25	4° 5	S 19
S 20	13 54 12	0°8'19'39"	27° 0	12°13	2°57	26°56	25°12	14° 6	11°11	15°41	26°27	20°19	19°22	14°31	4° 9	S 20
M21	13 58 9	1°17'59"	8°M54	12° 8	4° 9	26°34	25°D12	14° 7	11° 9	15°40	26°29	20° 6	19°19	14°38	4°13	M21
T 22	14 2 5	2°16'17"	20°47	12°D 8	5°20	26°12	25°12	14° 7	11° 6	15°38	26°30	19°53	19°16	14°45	4°17	T 22
W23	14 6 2	3°14'33"	2°A40	12°13	6°32	25°49	25°12	14°R 7	11° 4	15°36	26°31	19°40	19°13	14°52	4°21	W23
T 24	14 9 58	4°12'48"	14°34	12°23	7°43	25°27	25°12	14° 7	11° 2	15°35	26°32	19°30	19°10	14°58	4°25	T 24
F 25	14 13 55	5°11'01"	26°33	12°37	8°55	25° 5	25°13	14° 6	11° 0	15°33	26°34	19°21	19° 7	15° 5	4°29	F 25
S 26	14 17 52	6° 9'12"	8°338	12°56	10° 6	24°43	25°14	14° 6	10°57	15°32	26°35	19°16	19° 3	15°12	4°33	S 26
S 27	14 21 48	7° 7'22"	20°55	13°20	11°18	24°22	25°15	14° 6	10°55	15°30	26°36	19°13	19° 0	15°19	4°37	S 27
M28	14 25 45	8° 5'31"	3°A27	13°48	12°29	24° 1	25°16	14° 5	10°53	15°28	26°37	19°12	18°57	15°25	4°41	M28
T 29	14 29 41	9° 3'38"	16°20	14°20	13°40	23°40	25°18	14° 5	10°51	15°27	26°39	19°12	18°54	15°32	4°45	T 29
W30	14 33 38	10°8' 1'44"	29°A36	14°Y56	14°II51	23°19	25°Q19	14°3 4	10°48	15°M25	26°D40	19°A12	18°A51	15°M39	4°D49	W30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	4n39	19s35	1s15	11n50	3n14	15n 5	0n14	10s39	2n 7	14n 9	1n17	22s14	0n33	4s 6	0n42	14s56	1n50	6n50	12s50	14s18	14s43	20s26	11n41	0s52	
W 2	5 2	14 33	0 3	11 37	3 9	15 30	0 17	10 35	2 6	14 10	1 17	22 14	0 33	4 5	0 42	14 56	1 50	6 50	12 50	14 18	14 44	20 28	11 42	0 53	
T 3	5 25	8 37	1n11	11 20	3 3	15 55	0 20	10 30	2 4	14 11	1 17	22 14	0 32	4 4	0 42	14 56	1 50	6 50	12 49	14 18	14 45	20 30	11 44	0 53	
F 4	5 48	2 5	2 22	11 1	2 56	16 20	0 23	10 26	2 3	14 12	1 17	22 14	0 32	4 3	0 42	14 55	1 50	6 51	12 49	14 19	14 46	20 33	11 45	0 53	
S 5	6 11	4n45	3 27	10 39	2 46	16 45	0 26	10 21	2 2	14 13	1 16	22 14	0 32	4 2	0 42	14 55	1 50	6 51	12 49	14 21	14 47	20 35	11 46	0 53	
S 6	6 34	11 26	4 18	10 14	2 36	17 9	0 29	10 16	2 0	14 14	1 16	22 14	0 32	4 1	0 42	14 54	1 51	6 52	12 49	14 23	14 48	20 37	11 47	0 53	
M 7	6 56	17 30	4 51	9 46	2 24	17 32	0 32	10 11	1 58	14 15	1 16	22 13	0 32	4 0	0 42	14 54	1 51	6 52	12 49	14 26	14 49	20 39	11 49	0 53	
T 8	7 19	22 29	5 5	9 18	2 11	17 56	0 35	10 6	1 57	14 15	1 16	22 13	0 32	3 59	0 42	14 53	1 51	6 53	12 48	14 29	14 50	20 41	11 50	0 53	
W 9	7 41	25 54	4 57	8 47	1 57	18 18	0 38	10 1	1 55	14 16	1 16	22 13	0 32	3 58	0 42	14 53	1 51	6 53	12 48	14 31	14 51	20 44	11 51	0 53	
T 10	8 3	27 30	4 29	8 16	1 42	18 41	0 41	9 56	1 53	14 17	1 16	22 13	0 32	3 57	0 42	14 53	1 51	6 54	12 48	14 33	14 52	20 46	11 52	0 53	
F 11	8 25	27 13	3 46	7 45	1 26	19 2	0 44	9 50	1 51	14 17	1 16	22 13	0 32	3 56	0 42	14 52	1 51	6 54	12 48	14 34	14 53	20 48	11 54	0 53	
S 12	8 47	25 14	2 51	7 14	1 10	19 24	0 46	9 45	1 50	14 18	1 16	22 13	0 32	3 55	0 42	14 52	1 51	6 54	12 48	14 35	14 54	20 50	11 55	0 53	
S 13	9 9	21 52	1 47	6 44	0 53	19 45	0 49	9 39	1 48	14 18	1 15	22 13	0 32	3 54	0 42	14 51	1 51	6 55	12 47	14 35	14 55	20 52	11 56	0 53	
M14	9 30	17 28	0 40	6 14	0 36	20 5	0 52	9 33	1 46	14 18	1 15	22 13	0 32	3 53	0 42	14 51	1 51	6 55	12 47	14 34	14 56	20 54	11 57	0 53	
T 15	9 52	12 24	0s28	5 46	0 19	20 25	0 55	9 28	1 43	14 19	1 15	22 13	0 32	3 52	0 42	14 50	1 51	6 56	12 47	14 34	14 57	20 57	11 59	0 53	
W16	10 13	6 56	1 33	5 20	0 3	20 44	0 58	9 22	1 41	14 19	1 15	22 13	0 32	3 51	0 42	14 50	1 51	6 56	12 47	14 35	14 58	20 59	12 0	0 54	
T 17	10 34	1 18	2 32	4 55	0s14	21 3	1 1	9 16	1 39	14 19	1 15	22 13	0 32	3 50	0 42	14 49	1 51	6 56	12 47	14 36	14 59	21 1	12 1	0 54	
F 18	10 55	4s19	3 24	4 33	0 29	21 21	1 4	9 10	1 37	14 19	1 15	22 13	0 32	3 49	0 42	14 49	1 51	6 57	12 47	14 38	15 0	21 3	12 3	0 54	
S 19	11 16	9 43	4 6	4 13	0 45	21 38	1 6	9 4	1 35	14 19	1 14	22 13	0 32	3 48	0 42	14 49	1 51	6 57	12 46	14 41	15 1	21 5	12 4	0 54	
S 20	11 37	14 43	4 37	3 55	1 0	21 55	1 9	8 58	1 32	14 19	1 14	22 13	0 32	3 47	0 42	14 48	1 51	6 58	12 46	14 45	15 2	21 7	12 5	0 54	
M21	11 57	19 9	4 55	3 41	1 14	22 12	1 12	8 52	1 30	14 19	1 14	22 13	0 32	3 46	0 42	14 48	1 51	6 58	12 46	14 49	15 3	21 9	12 6	0 54	
T 22	12 17	22 49	5 1	3 28	1 27	22 28	1 15	8 46	1 27	14 19	1 14	22 13	0 32	3 45	0 42	14 47	1 51	6 59	12 46	14 53	15 4	21 11	12 8	0 54	
W23	12 37	25 31	4 53	3 19	1 40	22 43	1 17	8 41	1 25	14 18	1 14	22 13	0 32	3 44	0 42	14 47	1 51	6 59	12 46	14 57	15 5	21 13	12 9	0 54	
T 24	12 57	27 7	4 33	3 11	1 51	22 58	1 20	8 35	1 22	14 18	1 14	22 13	0 32	3 44	0 42	14 46	1 51	6 59	12 46	15 0	15 6	21 16	12 10	0 54	
F 25	13 17	27 27	4 1	3 7	2 2	23 12	1 23	8 29	1 20	14 18	1 14	22 13	0 32	3 43	0 42	14 46	1 51	7 0	12 46	15 3	15 7	21 18	12 11	0 54	
S 26	13 36	26 29	3 17	3 5	2 13	23 25	1 25	8 24	1 17	14 17	1 13	22 13	0 32	3 42	0 42	14 45	1 51	7 0	12 46	15 5	15 8	21 20	12 13	0 54	
S 27	13 55	24 13	2 24	3 6	2 22	23 38	1 28	8 18	1 15	14 17	1 13	22 13	0 32	3 41	0 42	14 45	1 51	7 1	12 45	15 5	15 9	21 22	12 14	0 54	
M28	14 14	20 45	1 22	3 9	2 30	23 50	1 30	8 13	1 12	14 16	1 13	22 13	0 32	3 40	0 42	14 44	1 51	7 1	12 45	15 6	15 10	21 24	12 15	0 54	
T 29	14 33	16 13	0 15	3 14	2 38	24 1	1 33	8 8	1 9	14 16	1 13	22 13	0 32	3 39	0 42	14 44	1 51	7 1	12 45	15 6	15 11	21 26	12 17	0 55	
W30	14n51	10s47	0n55	3n22	2s45	24n12	1n35	8s 3	1n 7	14n15	1n13	22s13	0n32	3s38	0n42	14s43	1n51	7n 2	12s45	15s 6	15s12	21s28	12n18	0s55	

ASTRODIENST EPHEMERIS for the year 1636
geocentric

MAY 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	14 37 34	10♈59'48	13♊21	15♊35	16♋2	22°R59	25♌21	14°R 3	10°R46	15°R24	26♈41	19°R10	18♋47	15♌45	4♉53	T 1
F 2	14 41 31	11°57'50	27°34	16°19	17°13	22♋40	25°23	14♈2	10♋44	15♌22	26°43	19♋6	18°44	15°52	4°57	F 2
S 3	14 45 27	12°55'52	12♊15	17° 6	18°24	22°21	25°25	14° 2	10°42	15°20	26°44	19° 0	18°41	15°59	5° 1	S 3
S 4	14 49 24	13°53'52	27°18	17°57	19°35	22° 2	25°27	14° 0	10°40	15°19	26°45	18°51	18°38	16° 6	5° 5	S 4
M 5	14 53 21	14°51'50	12♋35	18°51	20°45	21°44	25°30	13°59	10°38	15°17	26°47	18°40	18°35	16°12	5° 9	M 5
T 6	14 57 17	15°49'47	27°55	19°48	21°56	21°27	25°32	13°58	10°36	15°15	26°48	18°29	18°32	16°19	5°13	T 6
W 7	15 1 14	16°47'43	13♋5	20°48	23° 7	21°10	25°35	13°57	10°34	15°14	26°49	18°19	18°28	16°26	5°17	W 7
T 8	15 5 10	17°45'37	27°57	21°51	24°17	20°54	25°38	13°55	10°32	15°12	26°51	18°11	18°25	16°32	5°21	T 8
F 9	15 9 7	18°43'29	12♌23	22°57	25°28	20°39	25°41	13°54	10°31	15°11	26°52	18° 6	18°22	16°39	5°25	F 9
S 10	15 13 3	19°41'19	26°20	24° 6	26°38	20°24	25°44	13°52	10°29	15° 9	26°53	18° 3	18°19	16°46	5°29	S 10
S 11	15 17 0	20°39'08	9♌49	25°17	27°48	20°10	25°48	13°51	10°27	15° 7	26°55	18° 2	18°16	16°53	5°33	S 11
M12	15 20 56	21°36'55	22°52	26°32	28°58	19°57	25°52	13°49	10°25	15° 6	26°56	18° 2	18°13	16°59	5°37	M12
T 13	15 24 53	22°34'40	5♌32	27°48	0♉8	19°45	25°55	13°47	10°23	15° 4	26°57	18° 1	18° 9	17° 6	5°41	T 13
W14	15 28 50	23°32'23	17°56	29° 8	1°18	19°33	25°59	13°45	10°22	15° 2	26°59	17°59	18° 6	17°13	5°44	W14
T 15	15 32 46	24°30'05	0♊6	0♉29	2°28	19°22	26° 3	13°43	10°20	15° 1	27° 0	17°55	18° 3	17°20	5°48	T 15
F 16	15 36 43	25°27'45	12° 7	1°54	3°38	19°12	26° 8	13°41	10°19	14°59	27° 2	17°49	18° 0	17°26	5°52	F 16
S 17	15 40 39	26°25'24	24° 3	3°20	4°47	19° 3	26°12	13°39	10°17	14°58	27° 3	17°39	17°57	17°33	5°56	S 17
S 18	15 44 36	27°23'01	5♌56	4°49	5°57	18°54	26°17	13°36	10°16	14°56	27° 4	17°27	17°53	17°40	6° 0	S 18
M19	15 48 32	28°20'37	17°49	6°21	7° 6	18°47	26°22	13°34	10°14	14°55	27° 6	17°14	17°50	17°46	6° 4	M19
T 20	15 52 29	29°18'12	29°42	7°55	8°15	18°40	26°27	13°31	10°13	14°53	27° 7	17° 0	17°47	17°53	6° 7	T 20
W21	15 56 25	0♋15'46	11♊38	9°31	9°25	18°34	26°32	13°29	10°11	14°51	27° 8	16°48	17°44	18° 0	6°11	W21
T 22	16 0 22	1°13'18	23°37	11°10	10°34	18°29	26°37	13°26	10°10	14°50	27°10	16°37	17°41	18° 7	6°15	T 22
F 23	16 4 19	2°10'50	5♉42	12°51	11°43	18°24	26°42	13°24	10° 9	14°48	27°11	16°28	17°38	18°13	6°19	F 23
S 24	16 8 15	3° 8'20	17°54	14°34	12°51	18°21	26°48	13°21	10° 8	14°47	27°12	16°22	17°34	18°20	6°22	S 24
S 25	16 12 12	4° 5'50	0♋16	16°20	14° 0	18°18	26°53	13°18	10° 6	14°45	27°14	16°19	17°31	18°27	6°26	S 25
M26	16 16 8	5° 3'19	12°52	18° 8	15° 9	18°16	26°59	13°15	10° 5	14°44	27°15	16°D18	17°28	18°34	6°30	M26
T 27	16 20 5	6° 0'46	25°45	19°58	16°17	18°15	27° 5	13°12	10° 4	14°42	27°16	16°18	17°25	18°40	6°33	T 27
W28	16 24 1	6°58'14	8♊58	21°50	17°26	18°D14	27°11	13° 9	10° 3	14°41	27°18	16°R18	17°22	18°47	6°37	W28
T 29	16 27 58	7°55'40	22°36	23°45	18°34	18°15	27°18	13° 6	10° 2	14°39	27°19	16°17	17°19	18°54	6°41	T 29
F 30	16 31 54	8°53'06	6♊39	25°42	19°42	18°16	27°24	13° 3	10° 1	14°38	27°20	16°15	17°15	19° 0	6°44	F 30
S 31	16 35 51	9♋50'31	21♊8	27♊41	20♋50	18♋18	27♌31	12♉59	10♊0	14♌36	27♈22	16♋10	17♋12	19♌7	6♉48	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	lat
T 1	15n 9	4s39	2n 4	3n31	2s51	24n22	1n38	7s58	1n 4	14n14	1n13	22s13	0n32	3s38	0n42	14s43	1n51	7n 2	12s45	15s 6	15s13	21s30	12n19	0s55
F 2	15 27	1n54	3 8	3 43	2 56	24 32	1 40	7 53	1 1	14 13	1 12	22 13	0 32	3 37	0 42	14 42	1 51	7 2	12 45	15 8	15 14	21 32	12 20	0 55
S 3	15 45	8 33	4 1	3 57	3 0	24 41	1 42	7 48	0 59	14 13	1 12	22 13	0 32	3 36	0 42	14 42	1 51	7 3	12 45	15 10	15 15	21 34	12 22	0 55
S 4	16 3	14 52	4 39	4 13	3 4	24 49	1 44	7 44	0 56	14 12	1 12	22 14	0 32	3 35	0 42	14 41	1 51	7 3	12 45	15 12	15 16	21 36	12 23	0 55
M 5	16 20	20 23	4 58	4 31	3 7	24 56	1 46	7 40	0 53	14 11	1 12	22 14	0 32	3 35	0 42	14 41	1 51	7 4	12 45	15 16	15 17	21 38	12 24	0 55
T 6	16 37	24 32	4 56	4 50	3 9	25 3	1 49	7 36	0 51	14 10	1 12	22 14	0 32	3 34	0 42	14 41	1 51	7 4	12 44	15 19	15 18	21 40	12 25	0 55
W 7	16 53	26 56	4 33	5 11	3 11	25 9	1 51	7 32	0 48	14 9	1 12	22 14	0 32	3 33	0 42	14 40	1 51	7 4	12 44	15 22	15 19	21 42	12 27	0 55
T 8	17 10	27 20	3 52	5 34	3 11	25 14	1 52	7 29	0 45	14 7	1 12	22 14	0 32	3 32	0 42	14 40	1 51	7 5	12 44	15 25	15 20	21 44	12 28	0 55
F 9	17 26	25 50	2 56	5 59	3 11	25 19	1 54	7 25	0 42	14 6	1 11	22 14	0 31	3 32	0 42	14 39	1 51	7 5	12 44	15 26	15 21	21 46	12 29	0 55
S 10	17 42	22 46	1 52	6 24	3 11	25 23	1 56	7 22	0 40	14 5	1 11	22 15	0 31	3 31	0 42	14 39	1 51	7 5	12 44	15 27	15 22	21 48	12 30	0 56
S 11	17 57	18 31	0 43	6 52	3 9	25 26	1 58	7 20	0 37	14 4	1 11	22 15	0 31	3 30	0 42	14 38	1 51	7 6	12 44	15 28	15 23	21 50	12 31	0 56
M12	18 12	13 31	0s26	7 20	3 8	25 29	2 0	7 17	0 34	14 2	1 11	22 15	0 31	3 30	0 42	14 38	1 51	7 6	12 44	15 28	15 24	21 52	12 33	0 56
T 13	18 27	8 5	1 31	7 50	3 5	25 31	2 1	7 15	0 32	14 1	1 11	22 15	0 31	3 29	0 42	14 37	1 51	7 6	12 44	15 28	15 25	21 54	12 34	0 56
W14	18 42	2 28	2 31	8 21	3 2	25 32	2 3	7 13	0 29	13 59	1 11	22 16	0 31	3 28	0 42	14 37	1 51	7 7	12 44	15 28	15 26	21 56	12 35	0 56
T 15	18 56	3s 8	3 23	8 53	2 58	25 32	2 4	7 11	0 26	13 58	1 10	22 16	0 31	3 28	0 42	14 36	1 51	7 7	12 44	15 29	15 27	21 58	12 36	0 56
F 16	19 10	8 33	4 4	9 26	2 54	25 32	2 6	7 10	0 24	13 56	1 10	22 16	0 31	3 27	0 42	14 36	1 51	7 7	12 44	15 32	15 28	22 0	12 37	0 56
S 17	19 24	13 37	4 35	10 1	2 49	25 31	2 7	7 9	0 21	13 54	1 10	22 16	0 31	3 27	0 42	14 35	1 51	7 8	12 44	15 34	15 29	22 2	12 39	0 56
S 18	19 37	18 9	4 54	10 36	2 43	25 29	2 8	7 8	0 19	13 53	1 10	22 17	0 31	3 26	0 42	14 35	1 51	7 8	12 44	15 38	15 30	22 4	12 40	0 56
M19	19 50	21 58	5 0	11 12	2 37	25 27	2 9	7 7	0 16	13 51	1 10	22 17	0 31	3 26	0 41	14 35	1 51	7 8	12 44	15 42	15 31	22 6	12 41	0 56
T 20	20 3	24 53	4 53	11 48	2 30	25 24	2 10	7 7	0 14	13 49	1 10	22 17	0 31	3 25	0 41	14 34	1 51	7 9	12 44	15 46	15 32	22 8	12 42	0 57
W21	20 15	26 44	4 33	12 25	2 23	25 20	2 11	7 7	0 11	13 47	1 9	22 17	0 31	3 25	0 41	14 34	1 51	7 9	12 44	15 50	15 33	22 10	12 43	0 57
T 22	20 27	27 20	4 1	13 3	2 16	25 16	2 12	7 7	0 9	13 45	1 9	22 18	0 31	3 24	0 41	14 33	1 51	7 9	12 44	15 53	15 34	22 12	12 44	0 57
F 23	20 38	26 39	3 17	13 42	2 8	25 11	2 13	7 8	0 6	13 43	1 9	22 18	0 31	3 24	0 41	14 33	1 51	7 10	12 44	15 56	15 35	22 14	12 45	0 57
S 24	20 50	24 40	2 24	14 20	1 59	25 5	2 14	7 9	0 4	13 41	1 9	22 18	0 31	3 23	0 41	14 32	1 51	7 10	12 44	15 58	15 36	22 16	12 47	0 57
S 25	21 1	21 30	1 24	14 59	1 50	24 59	2 14	7 10	0 2	13 39	1 9	22 19	0 31	3 23	0 41	14 32	1 51	7 10	12 44	15 59	15 37	22 17	12 48	0 57
M26	21 11	17 17	0 18	15 39	1 41	24 52	2 15	7 11	0s 1	13 37	1 9	22 19	0 31	3 22	0 41	14 32	1 51	7 11	12 44	15 59	15 38	22 19	12 49	0 57
T 27	21 21	12 11	0n50	16 18	1 31	24 44	2 15	7 13	0 3	13 35	1 9	22 19	0 31	3 22	0 41	14 31	1 51	7 11	12 44	15 59	15 39	22 21	12 50	0 57
W28	21 31	6 25	1 57	16 57	1 22	24 36	2 16	7 15	0 5	13 33	1 8	22 20	0 31	3 21	0 41	14 31	1 51	7 11	12 44	15 59	15 40	22 23	12 51	0 57
T 29	21 41	0 11	3 0	17 36	1 11	24 27	2 16	7 17	0 8	13 30	1 8	22 20	0 31	3 21	0 41	14 30	1 51	7 11	12 44	15 59	15 41	22 25	12 52	0 57
F 30	21 50	6n14	3 54	18 14	1 1	24 17	2 16	7 20	0 10	13 28	1 8	22 20	0 31	3 21	0 41	14 30	1 51	7 12	12 44	16 0	15 42	22 27	12 53	0 58
S 31	21n58	12n30	4n35	18n52	0s50	24n 7	2n16	7s22	0s12	13n26	1n 8	22s21	0n30	3s20	0n41	14s29	1n51	7n12	12s44	16s 2	15s43	22s29	12n54	0s58

ASTRODIENST EPHEMERIS for the year 1636

geocentric

JUNE 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 39 48	10 ^{II} 47'56	6 ⁸ 0	29 ⁸ 43	21 ⁵ 58	18 ²¹	27 ¹² 37	12 ² R56	9 ⁹ R59	14 ¹⁴ R35	27 ⁸ 23	16 ¹⁶ R 2	17 ¹⁷ 9	19 ¹⁹ M.14	6 ⁸ 51	S 1
M 2	16 43 44	11 ¹ 45'20	21 ⁰ 6	1 ^{II} 46	23 ⁰ 5	18 ¹⁸ 24	27 ²⁷ 44	12 ¹² 53	9 ⁹ 59	14 ¹⁴ M.34	27 ²⁷ 24	15 ¹⁵ 54	17 ¹⁷ 6	19 ¹⁹ 21	6 ⁶ 55	M 2
T 3	16 47 41	12 ² 42'43	6 ^{II} 19	3 ⁵ 51	24 ¹³	18 ¹⁸ 28	27 ²⁷ 51	12 ¹² 49	9 ⁹ 58	14 ¹⁴ 32	27 ²⁷ 26	15 ¹⁵ 44	17 ¹⁷ 3	19 ¹⁹ 27	6 ⁶ 58	T 3
W 4	16 51 37	13 ³ 40'06	21 ⁰ 27	5 ⁵ 57	25 ²⁰	18 ¹⁸ 33	27 ²⁷ 58	12 ¹² 46	9 ⁹ 57	14 ¹⁴ 31	27 ²⁷ 27	15 ¹⁵ 36	16 ¹⁶ 59	19 ¹⁹ 34	7 ⁷ 1	W 4
T 5	16 55 34	14 ⁴ 37'28	6 ^{II} 21	8 ⁰ 5	26 ²⁸	18 ¹⁸ 39	28 ⁰ 5	12 ¹² 42	9 ⁹ 56	14 ¹⁴ 29	27 ²⁷ 28	15 ¹⁵ 29	16 ¹⁶ 56	19 ¹⁹ 41	7 ⁷ 5	T 5
F 6	16 59 30	15 ⁵ 34'48	20 ⁰ 51	10 ¹⁰ 15	27 ³⁵	18 ¹⁸ 46	28 ⁰ 13	12 ¹² 39	9 ⁹ 56	14 ¹⁴ 28	27 ²⁷ 30	15 ¹⁵ 24	16 ¹⁶ 53	19 ¹⁹ 48	7 ⁷ 8	F 6
S 7	17 3 27	16 ⁶ 32'08	4 ^{II} 55	12 ¹² 25	28 ⁴²	18 ¹⁸ 53	28 ⁰ 20	12 ¹² 35	9 ⁹ 55	14 ¹⁴ 27	27 ²⁷ 31	15 ¹⁵ 22	16 ¹⁶ 50	19 ¹⁹ 54	7 ⁷ 12	S 7
S 8	17 7 24	17 ⁷ 29'28	18 ¹⁸ 30	14 ¹⁴ 36	29 ⁴⁹	19 ¹⁹ 1	28 ²⁸ 28	12 ¹² 31	9 ⁹ 55	14 ¹⁴ 25	27 ²⁷ 32	15 ¹⁵ D21	16 ¹⁶ 47	20 ²⁰ 1	7 ⁷ 15	S 8
M 9	17 11 20	18 ¹⁸ 26'46	1 ^{II} 38	16 ¹⁶ 48	0 ^{II} 55	19 ¹⁹ 9	28 ²⁸ 35	12 ¹² 27	9 ⁹ 54	14 ¹⁴ 24	27 ²⁷ 34	15 ¹⁵ 22	16 ¹⁶ 44	20 ²⁰ 8	7 ⁷ 18	M 9
T 10	17 15 17	19 ¹⁹ 24'03	14 ¹⁴ 22	19 ¹⁹ 0	2 ² 2	19 ¹⁹ 19	28 ²⁸ 43	12 ¹² 23	9 ⁹ 54	14 ¹⁴ 23	27 ²⁷ 35	15 ¹⁵ R23	16 ¹⁶ 40	20 ²⁰ 14	7 ⁷ 21	T 10
W11	17 19 13	20 ²⁰ 21'19	26 ²⁶ 47	21 ²¹ 12	3 ³ 8	19 ¹⁹ 29	28 ²⁸ 51	12 ¹² 20	9 ⁹ 54	14 ¹⁴ 22	27 ²⁷ 36	15 ¹⁵ 23	16 ¹⁶ 37	20 ²⁰ 21	7 ⁷ 25	W11
T 12	17 23 10	21 ²¹ 18'35	8 ^{II} 57	23 ²³ 23	4 ⁴ 14	19 ¹⁹ 39	28 ²⁸ 59	12 ¹² 16	9 ⁹ 53	14 ¹⁴ 20	27 ²⁷ 37	15 ¹⁵ 21	16 ¹⁶ 34	20 ²⁰ 28	7 ⁷ 28	T 12
F 13	17 27 6	22 ²² 15'49	20 ²⁰ 57	25 ²⁵ 34	5 ⁵ 20	19 ¹⁹ 50	29 ²⁹ 7	12 ¹² 12	9 ⁹ 53	14 ¹⁴ 19	27 ²⁷ 39	15 ¹⁵ 17	16 ¹⁶ 31	20 ²⁰ 35	7 ⁷ 31	F 13
S 14	17 31 3	23 ²³ 13'03	2 ^{II} 51	27 ²⁷ 44	6 ⁶ 26	20 ²⁰ 2	29 ²⁹ 16	12 ¹² 8	9 ⁹ 53	14 ¹⁴ 18	27 ²⁷ 40	15 ¹⁵ 11	16 ¹⁶ 28	20 ²⁰ 41	7 ⁷ 34	S 14
S 15	17 34 59	24 ²⁴ 10'17	14 ¹⁴ 43	29 ²⁹ 53	7 ⁷ 32	20 ²⁰ 15	29 ²⁹ 24	12 ¹² 4	9 ⁹ 53	14 ¹⁴ 17	27 ²⁷ 41	15 ¹⁵ 4	16 ¹⁶ 25	20 ²⁰ 48	7 ⁷ 37	S 15
M16	17 38 56	25 ²⁵ 7'29	26 ²⁶ 36	2 ^{II} 1	8 ⁸ 37	20 ²⁰ 28	29 ²⁹ 33	11 ¹¹ 59	9 ⁹ 53	14 ¹⁴ 16	27 ²⁷ 42	14 ¹⁴ 55	16 ¹⁶ 21	20 ²⁰ 55	7 ⁷ 40	M16
T 17	17 42 53	26 ²⁶ 4'42	8 ^{II} 32	4 ⁴ 7	9 ⁹ 42	20 ²⁰ 42	29 ²⁹ 41	11 ¹¹ 55	9 ⁹ D53	14 ¹⁴ 15	27 ²⁷ 44	14 ¹⁴ 46	16 ¹⁶ 18	21 ²¹ 1	7 ⁷ 43	T 17
W18	17 46 49	27 ²⁷ 1'54	20 ²⁰ 33	6 ⁶ 12	10 ¹⁰ 47	20 ²⁰ 56	29 ²⁹ 50	11 ¹¹ 51	9 ⁹ 53	14 ¹⁴ 13	27 ²⁷ 45	14 ¹⁴ 37	16 ¹⁶ 15	21 ²¹ 8	7 ⁷ 46	W18
T 19	17 50 46	27 ²⁷ 59'05	2 ^{II} 31	8 ⁸ 15	11 ¹¹ 52	21 ²¹ 11	29 ²⁹ 59	11 ¹¹ 47	9 ⁹ 53	14 ¹⁴ 12	27 ²⁷ 46	14 ¹⁴ 29	16 ¹⁶ 12	21 ²¹ 15	7 ⁷ 49	T 19
F 20	17 54 42	28 ²⁸ 56'17	14 ¹⁴ 56	10 ¹⁰ 17	12 ¹² 56	21 ²¹ 27	0 ^{II} 8	11 ¹¹ 43	9 ⁹ 53	14 ¹⁴ 11	27 ²⁷ 47	14 ¹⁴ 24	16 ¹⁶ 9	21 ²¹ 22	7 ⁷ 52	F 20
S 21	17 58 39	29 ²⁹ 53'28	27 ²⁷ 21	12 ¹² 16	14 ¹⁴ 1	21 ²¹ 43	0 ⁰ 17	11 ¹¹ 38	9 ⁹ 53	14 ¹⁴ 10	27 ²⁷ 48	14 ¹⁴ 20	16 ¹⁶ 5	21 ²¹ 28	7 ⁷ 55	S 21
S 22	18 2 35	0 ^{II} 50'39	9 ⁹ 56	14 ¹⁴ 14	15 ¹⁵ 5	21 ²¹ 59	0 ⁰ 26	11 ¹¹ 34	9 ⁹ 53	14 ¹⁴ 9	27 ²⁷ 50	14 ¹⁴ D19	16 ¹⁶ 2	21 ²¹ 35	7 ⁷ 57	S 22
M23	18 6 32	1 ¹ 47'50	22 ²² 44	16 ¹⁶ 9	16 ¹⁶ 9	22 ²² 16	0 ⁰ 35	11 ¹¹ 30	9 ⁹ 54	14 ¹⁴ 8	27 ²⁷ 51	14 ¹⁴ 19	15 ¹⁵ 59	21 ²¹ 42	8 ⁸ 0	M23
T 24	18 10 28	2 ² 45'01	5 ^{II} 46	18 ¹⁸ 3	17 ¹⁷ 12	22 ²² 34	0 ⁰ 44	11 ¹¹ 26	9 ⁹ 54	14 ¹⁴ 7	27 ²⁷ 52	14 ¹⁴ 20	15 ¹⁵ 56	21 ²¹ 49	8 ⁸ 3	T 24
W25	18 14 25	3 ³ 42'12	19 ¹⁹ 5	19 ¹⁹ 54	18 ¹⁸ 16	22 ²² 52	0 ⁰ 54	11 ¹¹ 21	9 ⁹ 54	14 ¹⁴ 6	27 ²⁷ 53	14 ¹⁴ 22	15 ¹⁵ 53	21 ²¹ 55	8 ⁸ 6	W25
T 26	18 18 22	4 ⁴ 39'23	2 ^{II} 43	21 ²¹ 43	19 ¹⁹ 19	23 ²³ 11	1 ¹ 3	11 ¹¹ 17	9 ⁹ 55	14 ¹⁴ 6	27 ²⁷ 54	14 ¹⁴ R22	15 ¹⁵ 50	22 ²² 2	8 ⁸ 8	T 26
F 27	18 22 18	5 ⁵ 36'34	16 ¹⁶ 40	23 ²³ 30	20 ²⁰ 22	23 ²³ 30	1 ¹ 13	11 ¹¹ 12	9 ⁹ 55	14 ¹⁴ 5	27 ²⁷ 55	14 ¹⁴ 22	15 ¹⁵ 46	22 ²² 9	8 ⁸ 11	F 27
S 28	18 26 15	6 ⁶ 33'46	0 ^{II} 57	25 ²⁵ 16	21 ²¹ 24	23 ²³ 50	1 ¹ 23	11 ¹¹ 8	9 ⁹ 56	14 ¹⁴ 4	27 ²⁷ 56	14 ¹⁴ 20	15 ¹⁵ 43	22 ²² 15	8 ⁸ 13	S 28
S 29	18 30 11	7 ⁷ 30'58	15 ¹⁵ 30	26 ²⁶ 59	22 ²² 27	24 ²⁴ 10	1 ¹ 33	11 ¹¹ 4	9 ⁹ 57	14 ¹⁴ 3	27 ²⁷ 57	14 ¹⁴ 16	15 ¹⁵ 40	22 ²² 22	8 ⁸ 16	S 29
M30	18 34 8	8 ^{II} 28'11	0 ^{II} 17	28 ²⁸ 40	23 ²³ 29	24 ²⁴ 31	1 ¹ 43	10 ¹⁰ 59	9 ⁹ 57	14 ¹⁴ 2	27 ²⁷ 59	14 ¹⁴ 12	15 ¹⁵ 37	22 ²² M.29	8 ⁸ 18	M30

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22n 7	18n14	4n58	19n29	0s39	23n56	2n16	7s25	0s14	13n23	1n 8	22s21	0n30	3s20	0n41	14s29	1n51	7n12	12s44	16s 4	15s44	22s31	12n55	0s58	
M 2	22 15	22 55	5 2	20 6	0 28	23 44	2 16	7 29	0 16	13 21	1 8	22 22	0 30	3 20	0 41	14 29	1 51	7 12	12 44	16 6	15 45	22 32	12 56	0 58	
T 3	22 22	26 4	4 44	20 41	0 17	23 32	2 16	7 32	0 18	13 18	1 8	22 22	0 30	3 20	0 41	14 28	1 51	7 13	12 44	16 9	15 46	22 34	12 57	0 58	
W 4	22 29	27 18	4 6	21 14	0 7	23 20	2 15	7 36	0 20	13 16	1 8	22 22	0 30	3 19	0 41	14 28	1 50	7 13	12 44	16 12	15 47	22 36	12 58	0 58	
T 5	22 36	26 32	3 12	21 46	0n 4	23 6	2 15	7 40	0 22	13 13	1 7	22 23	0 30	3 19	0 41	14 28	1 50	7 13	12 44	16 14	15 47	22 38	12 59	0 58	
F 6	22 42	23 57	2 7	22 17	0 15	22 53	2 14	7 44	0 24	13 10	1 7	22 23	0 30	3 19	0 41	14 27	1 50	7 13	12 44	16 15	15 48	22 40	13 0	0 58	
S 7	22 48	19 58	0 56	22 45	0 25	22 38	2 13	7 49	0 26	13 8	1 7	22 24	0 30	3 19	0 41	14 27	1 50	7 14	12 44	16 16	15 49	22 42	13 1	0 59	
S 8	22 54	15 3	0s17	23 11	0 35	22 23	2 12	7 53	0 28	13 5	1 7	22 24	0 30	3 19	0 41	14 27	1 50	7 14	12 44	16 16	15 50	22 43	13 2	0 59	
M 9	22 59	9 35	1 26	23 35	0 45	22 8	2 11	7 58	0 30	13 2	1 7	22 24	0 30	3 19	0 41	14 26	1 50	7 14	12 44	16 16	15 51	22 45	13 3	0 59	
T 10	23 4	3 52	2 29	23 56	0 54	21 52	2 10	8 4	0 32	12 59	1 7	22 25	0 30	3 18	0 41	14 26	1 50	7 14	12 44	16 15	15 52	22 47	13 4	0 59	
W11	23 8	1s49	3 23	24 15	1 3	21 35	2 9	8 9	0 33	12 56	1 7	22 25	0 30	3 18	0 41	14 26	1 50	7 14	12 44	16 15	15 53	22 49	13 5	0 59	
T 12	23 12	7 20	4 7	24 30	1 11	21 18	2 8	8 15	0 35	12 53	1 7	22 26	0 30	3 18	0 41	14 25	1 50	7 15	12 44	16 16	15 54	22 51	13 6	0 59	
F 13	23 16	12 30	4 39	24 44	1 19	21 1	2 6	8 21	0 37	12 50	1 6	22 26	0 30	3 18	0 41	14 25	1 50	7 15	12 44	16 17	15 55	22 52	13 7	0 59	
S 14	23 19	17 10	4 59	24 54	1 26	20 43	2 5	8 27	0 39	12 47	1 6	22 27	0 30	3 18	0 40	14 25	1 50	7 15	12 44	16 19	15 56	22 54	13 8	0 59	
S 15	23 22	21 9	5 6	25 1	1 32	20 24	2 3	8 33	0 40	12 44	1 6	22 27	0 30	3 18	0 40	14 24	1 50	7 15	12 45	16 21	15 57	22 56	13 9	1 0	
M16	23 24	24 17	5 0	25 6	1 37	20 6	2 1	8 40	0 42	12 41	1 6	22 27	0 29	3 18	0 40	14 24	1 50	7 15	12 45	16 24	15 58	22 58	13 9	1 0	
T 17	23 26	26 23	4 40	25 8	1 42	19 46	1 59	8 46	0 44	12 38	1 6	22 28	0 29	3 18	0 40	14 24	1 50	7 16	12 45	16 26	15 59	22 59	13 10	1 0	
W18	23 27	27 17	4 9	25 7	1 46	19 27	1 57	8 53	0 45	12 35	1 6	22 28	0 29	3 18	0 40	14 23	1 50	7 16	12 45	16 29	16 0	23 1	13 11	1 0	
T 19	23 28	26 33	3 25	25 3	1 50	19 6	1 55	9 0	0 47	12 32	1 6	22 29	0 29	3 18	0 40	14 23	1 50	7 16	12 45	16 31	16 1	23 3	13 12	1 0	
F 20	23 29	25 10	2 32	24 57	1 52	18 46	1 53	9 7	0 48	12 28	1 6	22 29	0 29	3 18	0 40	14 23	1 50	7 16	12 45	16 33	16 2	23 5	13 13	1 0	
S 21	23 29	22 13	1 30	24 49	1 54	18 25	1 50	9 15	0 50	12 25	1 5	22 30	0 29	3 18	0 40	14 23	1 50	7 16	12 45	16 34	16 3	23 6	13 13	1 0	
S 22	23 29	18 10	0 24	24 38	1 55	18 4	1 48	9 22	0 51	12 22	1 5	22 30	0 29	3 19	0 40	14 22	1 50	7 16	12 45	16 34	16 4	23 8	13 14	1 0	
M23	23 29	13 15	0n45	24 25	1 56	17 42	1 45	9 30	0 53	12 18	1 5	22 31	0 29	3 19	0 40	14 22	1 50	7 16	12 45	16 34	16 5	23 10	13 15	1 1	
T 24	23 28	7 39	1 54	24 11	1 55	17 20	1 42	9 38	0 54	12 15	1 5	22 31	0 29	3 19	0 40	14 22	1 50	7 17	12 45	16 34	16 6	23 12	13 16	1 1	
W25	23 26	1 37	2 57	23 54	1 54	16 57	1 39	9 46	0 56	12 11	1 5	22 31	0 29	3 19	0 40	14 22	1 50	7 17	12 46	16 33	16 7	23 13	13 16	1 1	
T 26	23 24	4n38	3 52	23 35	1 53	16 35	1 36	9 54	0 57	12 8	1 5	22 32	0 29	3 19	0 40	14 21	1 50	7 17	12 46	16 33	16 7	23 15	13 17	1 1	
F 27	23 22	10 48	4 35	23 15	1 51	16 12	1 33	10 3	0 58	12 4	1 5	22 32	0 29	3 20	0 40	14 21	1 50	7 17	12 46	16 33	16 8	23 17	13 18	1 1	
S 28	23 20	16 32	5 2	22 54	1 48	15 48	1 29	10 11	1 0	12 1	1 5	22 33	0 29	3 20	0 40	14 21	1 49	7 17	12 46	16 34	16 9	23 18	13 19	1 1	
S 29	23 16	21 28	5 10	22 30	1 44	15 25	1 26	10 20	1 1	11 57	1 5	22 33	0 28	3 20	0 40	14 21	1 49	7 17	12 46	16 35	16 10	23 20	13 19	1 1	
M30	23n13	25n 7	4n59	22n 6	1n40	15n 1	1n22	10s29	1s 2	11n54	1n 5	22s34	0n28	3s20	0n40	14s21	1n49	7n17	12s46	16s36	16s11	23s22	13n20	1s 1	

ASTRODIENST EPHEMERIS for the year 1636

geocentric

JULY 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 38 4	9 ²⁵ 25'23	15 ¹¹ 10	0 ¹⁸ 18	24 ¹⁸ 31	24 ¹⁸ 52	1 ¹⁷ 53	10 ¹⁸ 55	9 ¹⁸ 58	14 ¹⁸ 1	28 ¹⁸ 0	14 ¹⁸ 7	15 ¹⁸ 34	22 ¹⁸ 36	8 ¹⁸ 21	T 1	
W 2	18 42 1	10 ²² 36	29 ⁵⁹	1 ⁵⁵	25 ³²	25 ¹³	2 ³	10 ³⁵ 50	9 ⁵⁹	14 ¹⁸ 1	28 ¹	14 ¹⁸ 2	15 ³¹	22 ⁴²	8 ²³	W 2	
T 3	18 45 57	11 ¹⁹ 50	14 ⁴⁰	3 ³⁰	26 ³³	25 ³⁵	2 ¹³	10 ⁴⁶	9 ⁵⁹	14 ⁰	28 ²	13 ⁵⁸	15 ²⁷	22 ⁴⁹	8 ²⁵	T 3	
F 4	18 49 54	12 ¹⁷ 03	29 ³	5 ²	27 ³⁴	25 ⁵⁸	2 ²³	10 ⁴²	10 ⁰	13 ⁵⁹	28 ³	13 ⁵⁶	15 ²⁴	22 ⁵⁶	8 ²⁸	F 4	
S 5	18 53 51	13 ¹⁴ 16	13 ¹⁸ 4	6 ³³	28 ³⁵	26 ²¹	2 ³⁴	10 ³⁷	10 ¹	13 ⁵⁹	28 ⁴	13 ⁵⁵	15 ²¹	23 ³	8 ³⁰	S 5	
S 6	18 57 47	14 ¹¹ 30	26 ³⁹	8 ¹	29 ³⁵	26 ⁴⁴	2 ⁴⁴	10 ³³	10 ²	13 ⁵⁸	28 ⁵	13 ⁵⁶	15 ¹⁸	23 ⁹	8 ³²	S 6	
M 7	19 1 44	15 ⁸ 43	9 ¹⁷ 50	9 ²⁷	0 ¹⁷ 35	27 ⁸	2 ⁵⁵	10 ²⁸	10 ³	13 ⁵⁷	28 ⁶	13 ⁵⁷	15 ¹⁵	23 ¹⁶	8 ³⁴	M 7	
T 8	19 5 40	16 ⁵ 56	22 ³⁸	10 ⁵¹	1 ³⁵	27 ³²	3 ⁵	10 ²⁴	10 ⁴	13 ⁵⁷	28 ⁷	13 ⁵⁹	15 ¹¹	23 ²³	8 ³⁶	T 8	
W 9	19 9 37	17 ³ 10	5 ¹⁸	12 ¹³	2 ³⁴	27 ⁵⁷	3 ¹⁶	10 ²⁰	10 ⁵	13 ⁵⁶	28 ⁸	14 ⁰	15 ⁸	23 ²⁹	8 ³⁸	W 9	
T 10	19 13 33	18 ⁰ 23	17 ¹⁸	13 ³²	3 ³³	28 ²²	3 ²⁷	10 ¹⁵	10 ⁷	13 ⁵⁶	28 ⁹	14 ¹⁸ 1	15 ⁵	23 ³⁶	8 ⁴⁰	T 10	
F 11	19 17 30	18 ⁵⁷ 37	29 ²⁰	14 ⁴⁹	4 ³¹	28 ⁴⁷	3 ³⁷	10 ¹¹	10 ⁸	13 ⁵⁵	28 ¹⁰	14 ⁰	15 ²	23 ⁴³	8 ⁴²	F 11	
S 12	19 21 26	19 ⁵⁴ 51	11 ¹⁸ 15	16 ⁴	5 ²⁹	29 ¹³	3 ⁴⁸	10 ⁷	10 ⁹	13 ⁵⁵	28 ¹⁰	13 ⁵⁹	14 ⁵⁹	23 ⁵⁰	8 ⁴⁴	S 12	
S 13	19 25 23	20 ⁵² 05	23 ⁷	17 ¹⁶	6 ²⁷	29 ³⁹	3 ⁵⁹	10 ²	10 ¹⁰	13 ⁵⁵	28 ¹¹	13 ⁵⁶	14 ⁵⁶	23 ⁵⁶	8 ⁴⁶	S 13	
M14	19 29 20	21 ⁴⁹ 19	5 ¹⁸	18 ²⁶	7 ²⁴	0 ¹⁸ 5	4 ¹⁰	9 ⁵⁸	10 ¹²	13 ⁵⁴	28 ¹²	13 ⁵³	14 ⁵²	24 ³	8 ⁴⁷	M14	
T 15	19 33 16	22 ⁴⁶ 34	17 ²	19 ³³	8 ²⁰	0 ³²	4 ²¹	9 ⁵⁴	10 ¹³	13 ⁵⁴	28 ¹³	13 ⁵⁰	14 ⁴⁹	24 ¹⁰	8 ⁴⁹	T 15	
W16	19 37 13	23 ⁴³ 49	29 ⁹	20 ³⁷	9 ¹⁷	0 ⁵⁹	4 ³³	9 ⁴⁹	10 ¹⁵	13 ⁵³	28 ¹⁴	13 ⁴⁶	14 ⁴⁶	24 ¹⁶	8 ⁵¹	W16	
T 17	19 41 9	24 ⁴¹ 05	11 ³⁵ 27	21 ³⁹	10 ¹²	1 ²⁷	4 ⁴⁴	9 ⁴⁵	10 ¹⁶	13 ⁵³	28 ¹⁵	13 ⁴⁴	14 ⁴³	24 ²³	8 ⁵²	T 17	
F 18	19 45 6	25 ³⁸ 21	23 ⁵⁶	22 ³⁸	11 ⁸	1 ⁵⁴	4 ⁵⁵	9 ⁴¹	10 ¹⁸	13 ⁵³	28 ¹⁶	13 ⁴²	14 ⁴⁰	24 ³⁰	8 ⁵⁴	F 18	
S 19	19 49 2	26 ³⁵ 38	6 ¹⁸ 38	23 ³⁴	12 ²	2 ²³	5 ⁶	9 ³⁷	10 ¹⁹	13 ⁵³	28 ¹⁶	13 ⁴¹	14 ³⁷	24 ³⁷	8 ⁵⁵	S 19	
S 20	19 52 59	27 ³² 55	19 ³³	24 ²⁷	12 ⁵⁶	2 ⁵¹	5 ¹⁸	9 ³³	10 ²¹	13 ⁵³	28 ¹⁷	13 ⁴¹	14 ³³	24 ⁴³	8 ⁵⁷	S 20	
M21	19 56 56	28 ³⁰ 14	2 ¹⁸ 41	25 ¹⁶	13 ⁵⁰	3 ²⁰	5 ²⁹	9 ²⁹	10 ²³	13 ⁵²	28 ¹⁸	13 ⁴²	14 ³⁰	24 ⁵⁰	8 ⁵⁸	M21	
T 22	20 0 52	29 ²⁷ 33	16 ²	26 ²	14 ⁴³	3 ⁴⁹	5 ⁴¹	9 ²⁵	10 ²⁵	13 ⁵²	28 ¹⁹	13 ⁴³	14 ²⁷	24 ⁵⁷	9 ⁰	T 22	
W23	20 4 49	0 ¹⁸ 24'53	29 ³⁷	26 ⁴⁵	15 ³⁶	4 ¹⁸	5 ⁵³	9 ²¹	10 ²⁶	13 ⁵²	28 ¹⁹	13 ⁴⁴	14 ²⁴	25 ⁴	9 ¹	W23	
T 24	20 8 45	1 ²² 14	13 ¹⁷ 24	27 ²⁴	16 ²⁸	4 ⁴⁸	6 ⁴	9 ¹⁷	10 ²⁸	13 ⁵²	28 ²⁰	13 ⁴⁵	14 ²¹	25 ¹⁰	9 ²	T 24	
F 25	20 12 42	2 ¹⁹ 36	27 ²³	27 ⁵⁹	17 ¹⁹	5 ¹⁸	6 ¹⁶	9 ¹³	10 ³⁰	13 ⁵²	28 ²¹	13 ⁴⁵	14 ¹⁷	25 ¹⁷	9 ³	F 25	
S 26	20 16 38	3 ¹⁶ 59	11 ¹⁸ 34	28 ³⁰	18 ⁹	5 ⁴⁸	6 ²⁸	9 ⁹	10 ³²	13 ⁵²	28 ²²	13 ⁴⁵	14 ¹⁴	25 ²⁴	9 ⁴	S 26	
S 27	20 20 35	4 ¹⁴ 24	25 ⁵³	28 ⁵⁷	18 ⁵⁹	6 ¹⁹	6 ⁴⁰	9 ⁵	10 ³⁴	13 ⁵²	28 ²²	13 ⁴⁴	14 ¹¹	25 ³⁰	9 ⁵	S 27	
M28	20 24 31	5 ¹¹ 50	10 ¹¹ 19	29 ²⁰	19 ⁴⁹	6 ⁵⁰	6 ⁵¹	9 ²	10 ³⁶	13 ⁵²	28 ²³	13 ⁴⁴	14 ⁸	25 ³⁷	9 ⁶	M28	
T 29	20 28 28	6 ⁹ 17	24 ⁴⁶	29 ³⁸	20 ³⁷	7 ²¹	7 ³	8 ⁵⁸	10 ³⁸	13 ⁵²	28 ²³	13 ⁴³	14 ⁵	25 ⁴⁴	9 ⁷	T 29	
W30	20 32 25	7 ⁶ 45	9 ¹⁸ 9	29 ⁵¹	21 ²⁵	7 ⁵²	7 ¹⁵	8 ⁵⁴	10 ⁴⁰	13 ⁵²	28 ²⁴	13 ⁴²	14 ²	25 ⁵¹	9 ⁸	W30	
T 31	20 36 21	8 ¹⁸ 41'5	23 ⁵² 25	29 ⁵⁹	22 ¹⁷ 12	8 ¹⁸ 24	7 ¹⁷ 27	8 ⁵⁵ 1	10 ⁴³ 3	13 ⁵² 5	28 ²⁵ 8	13 ⁴¹ 3	14 ⁵ 8	25 ⁵⁷ 1	9 ⁹ 8	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
T 1	23n 9	27n 4	4n27	21n41	1n35	14n37	1n18	10s38	1s 3	11n50	1n 5	22s34	0n28	3s21	0n40	14s20	1n49	7n17	12s46	16s38	16s12	23s23	13n21	1s 2			
W 2	23 5	27 6	3 37	21 14	1 30	14 12	1 14	10 47	1 5	11 46	1 4	22 35	0 28	3 21	0 40	14 20	1 49	7 17	12 46	16 39	16 13	23 25	13 21	1 2			
T 3	23 0	25 13	2 33	20 47	1 24	13 47	1 10	10 56	1 6	11 42	1 4	22 35	0 28	3 21	0 40	14 20	1 49	7 17	12 47	16 40	16 14	23 27	13 22	1 2			
F 4	22 55	21 42	1 20	20 19	1 18	13 22	1 6	11 5	1 7	11 39	1 4	22 35	0 28	3 22	0 40	14 20	1 49	7 17	12 47	16 41	16 15	23 28	13 22	1 2			
S 5	22 50	17 0	0 5	19 50	1 11	12 57	1 2	11 15	1 8	11 35	1 4	22 36	0 28	3 22	0 40	14 20	1 49	7 18	12 47	16 41	16 16	23 30	13 23	1 2			
S 6	22 44	11 34	1s 9	19 20	1 4	12 32	0 57	11 24	1 9	11 31	1 4	22 36	0 28	3 23	0 40	14 20	1 49	7 18	12 47	16 41	16 17	23 32	13 24	1 2			
M 7	22 38	5 47	2 17	18 50	0 56	12 6	0 53	11 34	1 10	11 27	1 4	22 37	0 28	3 23	0 40	14 20	1 49	7 18	12 47	16 40	16 18	23 33	13 24	1 2			
T 8	22 31	0s 5	3 16	18 19	0 48	11 41	0 48	11 44	1 11	11 23	1 4	22 37	0 28	3 24	0 39	14 19	1 49	7 18	12 47	16 40	16 19	23 35	13 25	1 3			
W 9	22 24	5 46	4 4	17 48	0 40	11 15	0 43	11 53	1 12	11 19	1 4	22 38	0 28	3 24	0 39	14 19	1 49	7 18	12 48	16 40	16 20	23 36	13 25	1 3			
T 10	22 16	11 7	4 41	17 17	0 31	10 49	0 38	12 3	1 13	11 15	1 4	22 38	0 28	3 24	0 39	14 19	1 49	7 18	12 48	16 39	16 21	23 38	13 26	1 3			
F 11	22 9	15 59	5 4	16 46	0 21	10 23	0 32	12 13	1 14	11 11	1 4	22 38	0 27	3 25	0 39	14 19	1 49	7 18	12 48	16 40	16 22	23 40	13 26	1 3			
S 12	22 0	20 11	5 13	16 14	0 12	9 56	0 27	12 24	1 15	11 7	1 4	22 39	0 27	3 26	0 39	14 19	1 49	7 18	12 48	16 40	16 23	23 41	13 27	1 3			
S 13	21 52	23 35	5 10	15 43	0 1	9 30	0 22	12 34	1 16	11 3	1 4	22 39	0 27	3 26	0 39	14 19	1 49	7 18	12 48	16 41	16 23	23 43	13 27	1 3			
M14	21 43	25 59	4 53	15 12	0s 9	9 4	0 16	12 44	1 17	10 59	1 3	22 40	0 27	3 27	0 39	14 19	1 49	7 18	12 48	16 42	16 24	23 44	13 27	1 3			
T 15	21 34	27 13	4 23	14 40	0 20	8 37	0 10	12 54	1 18	10 55	1 3	22 40	0 27	3 27	0 39	14 19	1 49	7 18	12 49	16 43	16 25	23 46	13 28	1 4			
W16	21 24	27 10	3 41	14 10	0 31	8 10	0 4	13 5	1 19	10 51	1 3	22 41	0 27	3 28	0 39	14 19	1 48	7 18	12 49	16 44	16 26	23 48	13 28	1 4			
T 17	21 14	25 47	2 48	13 39	0 42	7 44	0s 2	13 15	1 20	10 47	1 3	22 41	0 27	3 29	0 39	14 19	1 48	7 18	12 49	16 44	16 27	23 49	13 29	1 4			
F 18	21 3	23 7	1 47	13 9	0 54	7 17	0 8	13 26	1 21	10 42	1 3	22 41	0 27	3 29	0 39	14 19	1 48	7 18	12 49	16 45	16 28	23 51	13 29	1 4			
S 19	20 53	19 17	0 39	12 40	1 6	6 50	0 15	13 36	1 22	10 38	1 3	22 42	0 27	3 30	0 39	14 19	1 48	7 18	12 49	16 45	16 29	23 52	13 29	1 4			
S 20	20 42	14 28	0n32	12 11	1 18	6 23	0 21	13 47	1 23	10 34	1 3	22 42	0 27	3 31	0 39	14 19	1 48	7 18	12 50	16 45	16 30	23 54	13 30	1 4			
M21	20 30	8 56	1 43	11 43	1 30	5 57	0 28	13 58	1 24	10 30	1 3	22 43	0 26	3 31	0 39	14 19	1 48	7 18	12 50	16 45	16 31	23 55	13 30	1 5			
T 22	20 18	2 55	2 49	11 16	1 42	5 30	0 35	14 8	1 24	10 25	1 3	22 43	0 26	3 32	0 39	14 19	1 48	7 18	12 50	16 45	16 32	23 57	13 30	1 5			
W23	20 6	3n19	3 47	10 49	1 55	5 3	0 42	14 19	1 25	10 21	1 3	22 43	0 26	3 33	0 39	14 19	1 48	7 18	12 50	16 44	16 33	23 58	13 30	1 5			
T 24	19 54	9 29	4 33	10 24	2 7	4 36	0 49	14 30	1 26	10 17	1 3	22 44	0 26	3 33	0 39	14 19	1 48	7 18	12 50	16 44	16 34	24 0	13 31	1 5			
F 25	19 41	15 17	5 4	10 0	2 20	4 10	0 56	14 41	1 27	10 12	1 3	22 44	0 26	3 34	0 39	14 19	1 48	7 18	12 51	16 44	16 35	24 1	13 31	1 5			
S 26	19 28	20 20	5 16	9 38	2 33	3 43	1 4	14 52	1 28	10 8	1 3	22 44	0 26	3 35	0 39	14 19	1 48	7 17	12 51	16 44	16 36	24 3	13 31	1 5			
S 27	19 14	24 16	5 9	9 17	2 45	3 16	1 11	15 2	1 28	10 3	1 3	22 45	0 26	3 36	0 39	14 19	1 48	7 17	12 51	16 44	16 36	24 4	13 31	1 5			
M28	19 0	26 42	4 43	8 57	2 58	2 50	1 19	15 13	1 29	9 59	1 3	22 45	0 26	3 37	0 39	14 19	1 48	7 17	12 51	16 44	16 37	24 6	13 31	1 6			
T 29	18 46	27 22	3 59	8 40	3 10	2 24	1 27	15 24	1 30	9 54	1 3	22 46	0 26	3 38	0 39	14 19	1 48	7 17	12 51	16 45	16 38	24 7	13 32	1 6			
W30	18 32	26 12	3 0	8 24	3 22	1 57	1 35	15 35	1 30	9 50	1 3	22 46	0 26	3 38	0 39	14 19	1 48	7 17	12 52	16 45	16 39	24 9	13 32	1 6			
T 31	18n17	23n15	1n50	8n10	3s34	1n31	1s43	15s46	1s31	9n45	1n 3	22s46	0n25	3s39	0n39	14s19	1n48	7n17	12s52	16s45	16s40	24s10	13n32	1s 6			

ASTRODIENST EPHEMERIS for the year 1636
geocentric

AUGUST 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	20 40 18	9♌ 1'45	7♌29	0°R 2	22♍58	8♍56	7♍39	8°R47	10♌45	13♍53	28♌25	13°D41	13♌55	26♍ 4	9♌10	F 1
S 2	20 44 14	9°59'17	21°15	29♌59	23°44	9°28	7°52	8♌44	10°47	13°53	28°26	13♌41	13°52	26°11	9°10	S 2
S 3	20 48 11	10°56'49	4♍42	29°52	24°28	10° 0	8° 4	8°40	10°49	13°53	28°26	13°41	13°49	26°17	9°11	S 3
M 4	20 52 7	11°54'23	17°49	29°39	25°12	10°33	8°16	8°37	10°52	13°53	28°27	13°42	13°46	26°24	9°12	M 4
T 5	20 56 4	12°51'57	0♌36	29°21	25°55	11° 6	8°28	8°34	10°54	13°54	28°27	13°42	13°43	26°31	9°12	T 5
W 6	21 0 0	13°49'32	13° 5	28°57	26°36	11°39	8°41	8°30	10°56	13°54	28°28	13°R42	13°39	26°38	9°13	W 6
T 7	21 3 57	14°47'09	25°19	28°28	27°17	12°13	8°53	8°27	10°59	13°54	28°28	13°42	13°36	26°44	9°13	T 7
F 8	21 7 54	15°44'46	7♍21	27°55	27°57	12°47	9° 5	8°24	11° 1	13°55	28°29	13°42	13°33	26°51	9°13	F 8
S 9	21 11 50	16°42'24	19°17	27°16	28°35	13°20	9°18	8°21	11° 4	13°55	28°29	13°D42	13°30	26°58	9°14	S 9
S 10	21 15 47	17°40'04	1♌10	26°34	29°12	13°55	9°30	8°18	11° 6	13°56	28°29	13°42	13°27	27° 4	9°14	S 10
M 11	21 19 43	18°37'44	13° 5	25°48	29°49	14°29	9°43	8°16	11° 9	13°56	28°30	13°42	13°23	27°11	9°14	M 11
T 12	21 23 40	19°35'26	25° 7	24°59	0♌24	15° 4	9°55	8°13	11°12	13°57	28°30	13°43	13°20	27°18	9°14	T 12
W 13	21 27 36	20°33'08	7♌20	24° 8	0°57	15°38	10° 8	8°10	11°14	13°57	28°30	13°43	13°17	27°25	9°R14	W 13
T 14	21 31 33	21°30'52	19°45	23°16	1°30	16°13	10°20	8° 7	11°17	13°58	28°31	13°44	13°14	27°31	9°14	T 14
F 15	21 35 29	22°28'37	2♌27	22°23	2° 0	16°49	10°33	8° 5	11°20	13°59	28°31	13°44	13°11	27°38	9°14	F 15
S 16	21 39 26	23°26'24	15°26	21°32	2°30	17°24	10°46	8° 2	11°23	13°59	28°31	13°R45	13° 8	27°45	9°14	S 16
S 17	21 43 23	24°24'12	28°43	20°43	2°58	18° 0	10°58	8° 0	11°26	14° 0	28°32	13°44	13° 4	27°52	9°14	S 17
M 18	21 47 19	25°22'01	12♌16	19°57	3°24	18°36	11°11	7°58	11°28	14° 1	28°32	13°43	13° 1	27°58	9°14	M 18
T 19	21 51 16	26°19'51	26° 3	19°14	3°49	19°12	11°24	7°56	11°31	14° 2	28°32	13°42	12°58	28° 5	9°13	T 19
W 20	21 55 12	27°17'44	10♌7	18°37	4°12	19°48	11°36	7°53	11°34	14° 2	28°32	13°40	12°55	28°12	9°13	W 20
T 21	21 59 9	28°15'38	24°10	18° 6	4°33	20°24	11°49	7°51	11°37	14° 3	28°32	13°39	12°52	28°18	9°12	T 21
F 22	22 3 5	29°13'34	8♌22	17°41	4°53	21° 1	12° 2	7°50	11°40	14° 4	28°33	13°37	12°48	28°25	9°12	F 22
S 23	22 7 2	0♍11'32	22°37	17°24	5°11	21°38	12°15	7°48	11°43	14° 5	28°33	13°36	12°45	28°32	9°11	S 23
S 24	22 10 58	1° 9'32	6♍50	17°14	5°27	22°14	12°28	7°46	11°46	14° 6	28°33	13°D36	12°42	28°39	9°11	S 24
M 25	22 14 55	2° 7'34	21° 1	17°D12	5°40	22°52	12°40	7°44	11°49	14° 7	28°33	13°37	12°39	28°45	9°10	M 25
T 26	22 18 52	3° 5'38	5♌5	17°19	5°52	23°29	12°53	7°43	11°53	14° 8	28°33	13°38	12°36	28°52	9° 9	T 26
W 27	22 22 48	4° 3'44	19° 3	17°34	6° 2	24° 6	13° 6	7°41	11°56	14° 9	28°33	13°40	12°33	28°59	9° 9	W 27
T 28	22 26 45	5° 1'51	2♌51	17°58	6°10	24°44	13°19	7°40	11°59	14°10	28°R33	13°41	12°29	29° 5	9° 8	T 28
F 29	22 30 41	6° 0'01	16°29	18°29	6°15	25°22	13°32	7°38	12° 2	14°11	28°33	13°R41	12°26	29°12	9° 7	F 29
S 30	22 34 38	6°58'12	29°53	19°10	6°19	26° 0	13°45	7°37	12° 5	14°12	28°33	13°40	12°23	29°19	9° 6	S 30
S 31	22 38 34	7♍56'25	13♍ 3	19♌58	6°R20	26♍38	13♍58	7♌36	12♌ 9	14♍13	28♌33	13♌38	12♌20	29♍26	9♌ 5	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	lat
F 1	18n 2	19n 0	0n34	7n58	3s45	1n 5	1s51	15s57	1s32	9n41	1n 3	22s47	0n25	3s40	0n39	14s20	1n48	7n17	12s52	16s45	16s41	24s12	13n32	1s 6
S 2	17 47	13 47	0s42	7 49	3 56	0 40	2 0	16 8	1 32	9 36	1 3	22 47	0 25	3 41	0 39	14 20	1 47	7 17	12 52	16 45	16 42	24 13	13 32	1 6
S 3	17 31	8 2	1 54	7 42	4 6	0 14	2 9	16 19	1 33	9 32	1 2	22 47	0 25	3 42	0 38	14 20	1 47	7 17	12 53	16 45	16 43	24 15	13 32	1 7
M 4	17 15	2 6	2 58	7 38	4 15	0s11	2 17	16 30	1 34	9 27	1 2	22 48	0 25	3 43	0 38	14 20	1 47	7 17	12 53	16 45	16 44	24 16	13 32	1 7
T 5	16 59	3s47	3 52	7 37	4 23	0 36	2 26	16 41	1 34	9 22	1 2	22 48	0 25	3 44	0 38	14 20	1 47	7 16	12 53	16 45	16 45	24 17	13 32	1 7
W 6	16 43	9 22	4 33	7 38	4 30	1 1	2 35	16 52	1 35	9 18	1 2	22 48	0 25	3 45	0 38	14 20	1 47	7 16	12 53	16 45	16 46	24 19	13 32	1 7
T 7	16 26	14 28	5 1	7 42	4 36	1 26	2 45	17 3	1 35	9 13	1 2	22 48	0 25	3 46	0 38	14 20	1 47	7 16	12 53	16 45	16 47	24 20	13 32	1 7
F 8	16 9	18 57	5 15	7 49	4 41	1 50	2 54	17 13	1 36	9 8	1 2	22 49	0 25	3 47	0 38	14 21	1 47	7 16	12 54	16 45	16 47	24 22	13 32	1 7
S 9	15 52	22 38	5 15	7 59	4 44	2 14	3 3	17 24	1 36	9 4	1 2	22 49	0 24	3 48	0 38	14 21	1 47	7 16	12 54	16 45	16 48	24 23	13 32	1 7
S 10	15 34	25 22	5 2	8 12	4 46	2 38	3 13	17 35	1 37	8 59	1 2	22 49	0 24	3 49	0 38	14 21	1 47	7 16	12 54	16 45	16 49	24 24	13 32	1 8
M11	15 16	26 59	4 36	8 28	4 46	3 1	3 23	17 46	1 37	8 54	1 2	22 50	0 24	3 50	0 38	14 21	1 47	7 16	12 54	16 45	16 50	24 26	13 32	1 8
T 12	14 58	27 22	3 58	8 46	4 44	3 24	3 33	17 57	1 38	8 50	1 2	22 50	0 24	3 51	0 38	14 21	1 47	7 15	12 55	16 45	16 51	24 27	13 32	1 8
W13	14 40	26 25	3 8	9 6	4 40	3 47	3 43	18 7	1 38	8 45	1 2	22 50	0 24	3 52	0 38	14 22	1 47	7 15	12 55	16 44	16 52	24 29	13 32	1 8
T 14	14 22	24 9	2 9	9 28	4 34	4 9	3 53	18 18	1 39	8 40	1 2	22 51	0 24	3 53	0 38	14 22	1 47	7 15	12 55	16 44	16 53	24 30	13 31	1 8
F 15	14 3	20 40	1 2	9 52	4 27	4 31	4 3	18 29	1 39	8 35	1 2	22 51	0 24	3 54	0 38	14 22	1 47	7 15	12 55	16 44	16 54	24 31	13 31	1 8
S 16	13 44	16 5	0n 9	10 18	4 17	4 52	4 13	18 39	1 40	8 30	1 2	22 51	0 24	3 56	0 38	14 22	1 47	7 15	12 56	16 44	16 55	24 33	13 31	1 9
S 17	13 25	10 40	1 22	10 44	4 6	5 12	4 23	18 50	1 40	8 26	1 2	22 51	0 24	3 57	0 38	14 23	1 47	7 15	12 56	16 44	16 56	24 34	13 31	1 9
M18	13 6	4 39	2 31	11 10	3 53	5 33	4 34	19 0	1 40	8 21	1 2	22 52	0 23	3 58	0 38	14 23	1 46	7 14	12 56	16 44	16 56	24 35	13 31	1 9
T 19	12 46	1n41	3 33	11 37	3 39	5 52	4 44	19 10	1 41	8 16	1 2	22 52	0 23	3 59	0 38	14 23	1 46	7 14	12 56	16 45	16 57	24 37	13 30	1 9
W20	12 26	8 1	4 23	12 3	3 23	6 11	4 55	19 21	1 41	8 11	1 2	22 52	0 23	4 0	0 38	14 24	1 46	7 14	12 57	16 45	16 58	24 38	13 30	1 9
T 21	12 6	14 0	4 57	12 29	3 7	6 29	5 6	19 31	1 42	8 6	1 2	22 52	0 23	4 1	0 38	14 24	1 46	7 14	12 57	16 46	16 59	24 39	13 30	1 9
F 22	11 46	19 16	5 14	12 53	2 49	6 47	5 16	19 41	1 42	8 1	1 2	22 53	0 23	4 3	0 38	14 24	1 46	7 14	12 57	16 46	17 0	24 41	13 29	1 10
S 23	11 26	23 29	5 12	13 15	2 31	7 4	5 27	19 51	1 42	7 56	1 2	22 53	0 23	4 4	0 38	14 24	1 46	7 13	12 57	16 46	17 1	24 42	13 29	1 10
S 24	11 5	26 15	4 50	13 36	2 13	7 20	5 38	20 1	1 43	7 51	1 2	22 53	0 23	4 5	0 38	14 25	1 46	7 13	12 57	16 46	17 2	24 43	13 29	1 10
M25	10 44	27 21	4 11	13 54	1 54	7 35	5 49	20 11	1 43	7 46	1 2	22 53	0 23	4 6	0 38	14 25	1 46	7 13	12 58	16 46	17 3	24 45	13 28	1 10
T 26	10 23	26 40	3 17	14 10	1 36	7 50	5 59	20 21	1 43	7 42	1 2	22 53	0 22	4 8	0 38	14 25	1 46	7 13	12 58	16 46	17 4	24 46	13 28	1 10
W27	10 2	24 18	2 12	14 22	1 17	8 3	6 10	20 31	1 44	7 37	1 2	22 54	0 22	4 9	0 38	14 26	1 46	7 13	12 58	16 46	17 5	24 47	13 28	1 10
T 28	9 41	20 31	0 59	14 32	0 59	8 16	6 20	20 40	1 44	7 32	1 2	22 54	0 22	4 10	0 38	14 26	1 46	7 12	12 58	16 45	17 5	24 48	13 27	1 10
F 29	9 20	15 41	0s15	14 39	0 42	8 26	6 31	20 50	1 44	7 27	1 2	22 54	0 22	4 11	0 38	14 27	1 46	7 12	12 59	16 45	17 6	24 50	13 27	1 11
S 30	8 58	10 10	1 28	14 43	0 25	8 39	6 41	20 59	1 44	7 22	1 2	22 54	0 22	4 13	0 38	14 27	1 46	7 12	12 59	16 45	17 7	24 51	13 26	1 11
S 31	8n37	4n18	2s34	14n43	0s 9	8s48	6s51	21s 8	1s45	7n17	1n 2	22s54	0n22	4s14	0n38	14s27	1n46	7n12	12s59	16s46	17s 8	24s52	13n26	1s11

ASTRODIENST EPHEMERIS for the year 1636
geocentric

SEPTEMBER 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 42 31	8 ^h 54'40	25 ^h 58	20 ^h 53	6°R19	27 ^h 17	14 ^h 11	7°R35	12 ^h 12	14 ^h 14	28°R33	13°R35	12 ^h 17	29 ^h 32	9°R 4	M 1
T 2	22 46 27	9°52'56	8 ^h 38	21°56	6 ^h 15	27°55	14°24	7 ^h 34	12°15	14°15	28°33	13°31	12°14	29°39	9 ^h 3	T 2
W 3	22 50 24	10°51'14	21° 3	23° 6	6° 9	28°34	14°37	7°33	12°19	14°17	28°33	13°26	12°10	29°46	9° 1	W 3
T 4	22 54 20	11°49'34	3 ^h 15	24°22	6° 1	29°13	14°50	7°32	12°22	14°18	28°32	13°22	12° 7	29°52	9° 0	T 4
F 5	22 58 17	12°47'55	15°17	25°44	5°50	29°52	15° 3	7°32	12°25	14°19	28°32	13°18	12° 4	29°59	8°59	F 5
S 6	23 2 14	13°46'18	27°11	27°11	5°37	0 ^h 31	15°16	7°31	12°29	14°20	28°32	13°16	12° 1	0 ^h 7 6	8°57	S 6
S 7	23 6 10	14°44'43	9 ^h 4	28°42	5°21	1°10	15°29	7°31	12°32	14°22	28°32	13°14	11°58	0°13	8°56	S 7
M 8	23 10 7	15°43'09	20°58	0 ^h 18	5° 3	1°50	15°42	7°30	12°36	14°23	28°32	13°D14	11°54	0°19	8°55	M 8
T 9	23 14 3	16°41'37	2 ^h 58	1°57	4°43	2°29	15°55	7°30	12°39	14°25	28°31	13°15	11°51	0°26	8°53	T 9
W10	23 18 0	17°40'07	15°11	3°39	4°21	3° 9	16° 8	7°30	12°43	14°26	28°31	13°17	11°48	0°33	8°52	W10
T 11	23 21 56	18°38'38	27°40	5°24	3°56	3°49	16°21	7°D30	12°46	14°27	28°31	13°18	11°45	0°39	8°50	T 11
F 12	23 25 53	19°37'11	10 ^h 28	7°10	3°30	4°29	16°34	7°30	12°50	14°29	28°31	13°R19	11°42	0°46	8°48	F 12
S 13	23 29 50	20°35'45	23°39	8°58	3° 1	5° 9	16°47	7°30	12°53	14°30	28°30	13°19	11°39	0°53	8°46	S 13
S 14	23 33 46	21°34'22	7 ^h 13	10°48	2°31	5°49	17° 0	7°30	12°57	14°32	28°30	13°17	11°35	1° 0	8°45	S 14
M15	23 37 43	22°33'00	21° 9	12°38	1°59	6°30	17°13	7°31	13° 0	14°33	28°30	13°13	11°32	1° 6	8°43	M15
T 16	23 41 39	23°31'40	5 ^h 24	14°29	1°26	7°10	17°26	7°31	13° 4	14°35	28°29	13° 7	11°29	1°13	8°41	T 16
W17	23 45 36	24°30'22	19°52	16°19	0°52	7°51	17°38	7°32	13° 8	14°36	28°29	13° 1	11°26	1°20	8°39	W17
T 18	23 49 32	25°29'07	4 ^h 57	18°10	0°17	8°32	17°51	7°32	13°11	14°38	28°28	12°55	11°23	1°26	8°37	T 18
F 19	23 53 29	26°27'53	19° 2	20° 1	29 ^h 40	9°13	18° 4	7°33	13°15	14°40	28°28	12°49	11°20	1°33	8°35	F 19
S 20	23 57 25	27°26'42	3 ^h 31	21°52	29° 4	9°54	18°17	7°34	13°19	14°41	28°27	12°45	11°16	1°40	8°33	S 20
S 21	0 1 22	28°25'34	17°50	23°42	28°27	10°35	18°30	7°35	13°22	14°43	28°27	12°43	11°13	1°47	8°31	S 21
M22	0 5 18	29°24'27	1 ^h 56	25°32	27°50	11°16	18°43	7°36	13°26	14°45	28°27	12°D42	11°10	1°53	8°29	M22
T 23	0 9 15	0 ^h 23'23	15°49	27°21	27°13	11°58	18°56	7°37	13°30	14°46	28°26	12°43	11° 7	2° 0	8°27	T 23
W24	0 13 12	1°22'22	29°27	29° 9	26°37	12°39	19° 9	7°38	13°33	14°48	28°25	12°44	11° 4	2° 7	8°24	W24
T 25	0 17 8	2°21'22	12 ^h 52	0 ^h 57	26° 2	13°21	19°22	7°39	13°37	14°50	28°25	12°R45	11° 0	2°13	8°22	T 25
F 26	0 21 5	3°20'25	26° 5	2°44	25°27	14° 3	19°34	7°41	13°41	14°52	28°24	12°44	10°57	2°20	8°20	F 26
S 27	0 25 1	4°19'30	9 ^h 6	4°30	24°53	14°45	19°47	7°42	13°45	14°53	28°24	12°41	10°54	2°27	8°17	S 27
S 28	0 28 58	5°18'37	21°56	6°15	24°21	15°27	20° 0	7°44	13°48	14°55	28°23	12°35	10°51	2°34	8°15	S 28
M29	0 32 54	6°17'46	4 ^h 35	7°59	23°50	16° 9	20°13	7°46	13°52	14°57	28°23	12°27	10°48	2°40	8°12	M29
T 30	0 36 51	7 ^h 16'57	17 ^h 2	9 ^h 43	23 ^h 21	16 ^h 51	20 ^h 25	7 ^h 47	13 ^h 56	14 ^h 59	28 ^h 22	12 ^h 27	10 ^h 45	2 ^h 47	8 ^h 10	T 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	8n15	1s38	3s31	14n40	0n 6	8s57	7s 1	21s18	1s45	7n12	1n 2	22s55	0n22	4s15	0n38	14s28	1n46	7n11	12s59	16s47	17s 9	24s53	13n25	1s11			
T 2	7 53	7 22	4 17	14 33	0 21	9 5	7 11	21 27	1 45	7 7	1 2	22 55	0 22	4 17	0 38	14 28	1 46	7 11	13 0	16 48	17 10	24 55	13 25	1 11			
W 3	7 31	12 41	4 49	14 23	0 34	9 11	7 20	21 35	1 45	7 2	1 2	22 55	0 22	4 18	0 38	14 29	1 46	7 11	13 0	16 49	17 11	24 56	13 24	1 11			
T 4	7 8	17 26	5 8	14 9	0 46	9 16	7 30	21 44	1 45	6 57	1 2	22 55	0 21	4 19	0 38	14 29	1 46	7 11	13 0	16 51	17 12	24 57	13 24	1 12			
F 5	6 46	21 25	5 12	13 52	0 57	9 20	7 38	21 53	1 46	6 52	1 2	22 55	0 21	4 21	0 38	14 29	1 45	7 10	13 0	16 52	17 13	24 58	13 23	1 12			
S 6	6 24	24 29	5 3	13 32	1 7	9 22	7 47	22 1	1 46	6 47	1 2	22 55	0 21	4 22	0 38	14 30	1 45	7 10	13 1	16 52	17 14	24 59	13 23	1 12			
S 7	6 1	26 29	4 41	13 8	1 16	9 23	7 55	22 10	1 46	6 42	1 2	22 55	0 21	4 23	0 38	14 30	1 45	7 10	13 1	16 53	17 14	25 1	13 22	1 12			
M 8	5 39	27 18	4 7	12 42	1 24	9 23	8 2	22 18	1 46	6 37	1 3	22 56	0 21	4 25	0 38	14 31	1 45	7 10	13 1	16 53	17 15	25 2	13 21	1 12			
T 9	5 16	26 50	3 22	12 13	1 31	9 21	8 9	22 26	1 46	6 32	1 3	22 56	0 21	4 26	0 37	14 31	1 45	7 9	13 1	16 53	17 16	25 3	13 21	1 12			
W10	4 53	25 4	2 27	11 41	1 36	9 18	8 15	22 34	1 46	6 27	1 3	22 56	0 21	4 27	0 37	14 32	1 45	7 9	13 1	16 52	17 17	25 4	13 20	1 12			
T 11	4 30	22 3	1 24	11 7	1 41	9 13	8 21	22 42	1 47	6 22	1 3	22 56	0 21	4 29	0 37	14 32	1 45	7 9	13 2	16 52	17 18	25 5	13 20	1 13			
F 12	4 7	17 54	0 16	10 31	1 45	9 7	8 25	22 50	1 47	6 17	1 3	22 56	0 21	4 30	0 37	14 33	1 45	7 8	13 2	16 51	17 19	25 6	13 19	1 13			
S 13	3 44	12 47	0n56	9 53	1 47	8 59	8 30	22 57	1 47	6 12	1 3	22 56	0 20	4 32	0 37	14 33	1 45	7 8	13 2	16 51	17 20	25 8	13 18	1 13			
S 14	3 21	6 56	2 6	9 13	1 49	8 50	8 33	23 4	1 47	6 7	1 3	22 56	0 20	4 33	0 37	14 33	1 45	7 8	13 2	16 52	17 21	25 9	13 17	1 13			
M15	2 58	0 36	3 11	8 32	1 50	8 40	8 35	23 12	1 47	6 2	1 3	22 56	0 20	4 34	0 37	14 34	1 45	7 8	13 3	16 53	17 21	25 10	13 17	1 13			
T 16	2 35	5n53	4 5	7 49	1 51	8 28	8 37	23 19	1 47	5 57	1 3	22 56	0 20	4 36	0 37	14 34	1 45	7 7	13 3	16 55	17 22	25 11	13 16	1 13			
W17	2 11	12 10	4 44	7 6	1 50	8 15	8 38	23 25	1 47	5 52	1 3	22 57	0 20	4 37	0 37	14 35	1 45	7 7	13 3	16 57	17 23	25 12	13 15	1 14			
T 18	1 48	17 49	5 5	6 21	1 49	8 1	8 38	23 32	1 47	5 47	1 3	22 57	0 20	4 39	0 37	14 35	1 45	7 7	13 3	16 58	17 24	25 13	13 14	1 14			
F 19	1 25	22 25	5 7	5 36	1 47	7 46	8 36	23 38	1 47	5 41	1 3	22 57	0 20	4 40	0 37	14 36	1 45	7 6	13 3	17 0	17 25	25 14	13 14	1 14			
S 20	1 1	25 37	4 49	4 50	1 45	7 29	8 34	23 45	1 47	5 36	1 3	22 57	0 20	4 42	0 37	14 37	1 45	7 6	13 4	17 1	17 26	25 16	13 13	1 14			
S 21	0 38	27 7	4 13	4 4	1 42	7 12	8 31	23 51	1 47	5 31	1 3	22 57	0 19	4 43	0 37	14 37	1 45	7 6	13 4	17 2	17 27	25 17	13 12	1 14			
M22	0 14	26 50	3 22	3 17	1 39	6 54	8 27	23 57	1 47	5 26	1 3	22 57	0 19	4 44	0 37	14 38	1 45	7 5	13 4	17 2	17 28	25 18	13 11	1 14			
T 23	0s 9	24 52	2 20	2 31	1 35	6 35	8 23	24 2	1 47	5 21	1 3	22 57	0 19	4 46	0 37	14 38	1 45	7 5	13 4	17 2	17 28	25 19	13 10	1 14			
W24	0 33	21 28	1 11	1 44	1 31	6 15	8 17	24 8	1 47	5 16	1 3	22 57	0 19	4 47	0 37	14 39	1 45	7 5	13 4	17 1	17 29	25 20	13 10	1 15			
T 25	0 56	16 58	0s 1	0 57	1 26	5 55	8 10	24 13	1 47	5 12	1 3	22 57	0 19	4 49	0 37	14 39	1 45	7 5	13 5	17 1	17 30	25 21	13 9	1 15			
F 26	1 20	11 44	1 11	0 10	1 21	5 34	8 3	24 18	1 47	5 7	1 3	22 57	0 19	4 50	0 37	14 40	1 45	7 4	13 5	17 1	17 31	25 22	13 8	1 15			
S 27	1 43	6 4	2 17	0s37	1 16	5 13	7 55	24 23	1 47	5 2	1 4	22 57	0 19	4 52	0 37	14 40	1 44	7 4	13 5	17 2	17 32	25 23	13 7	1 15			
S 28	2 7	0 14	3 14	1 24	1 11	4 53	7 46	24 28	1 47	4 57	1 4	22 57	0 19	4 53	0 37	14 41	1 44	7 4	13 5	17 4	17 33	25 24	13 6	1 15			
M29	2 30	5s31	4 1	2 11	1 5	4 32	7 36	24 32	1 47	4 52	1 4	22 57	0 19	4 55	0 37	14 41	1 44	7 3	13 5	17 6	17 34	25 25	13 5	1 15			
T 30	2s54	10s57	4s36	2s57	0n59	4s11	7s26	24s36	1s47	4n47	1n 4	22s57	0n19	4s56	0n37	14s42	1n44	7n 3	13s 6	17s 9	17s35	25s26	13n 4	1s15			

ASTRODIENST EPHEMERIS for the year 1636
geocentric

OCTOBER 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 40 47	8♌16'11	29♌19	11♌26	22°R54	17♌33	20♌38	7♌49	14♌0	15♌1	28°R21	12°R 7	10♌41	2♌54	8°R 7	W 1	
T 2	0 44 44	9°15'26	11♌26	13° 8	22♌29	18°16	20°51	7°51	14° 3	15° 3	28♌21	11♌56	10°38	3° 0	8♌5	T 2	
F 3	0 48 41	10°14'43	23°24	14°49	22° 6	18°58	21° 3	7°53	14° 7	15° 5	28°20	11°46	10°35	3° 7	8° 2	F 3	
S 4	0 52 37	11°14'03	5♌16	16°30	21°45	19°41	21°16	7°55	14°11	15° 7	28°19	11°38	10°32	3°14	8° 0	S 4	
S 5	0 56 34	12°13'24	17° 6	18°10	21°26	20°24	21°29	7°58	14°15	15° 9	28°18	11°33	10°29	3°21	7°57	S 5	
M 6	1 0 30	13°12'47	28°58	19°49	21°10	21° 7	21°41	8° 0	14°18	15°11	28°18	11°29	10°25	3°27	7°54	M 6	
T 7	1 4 27	14°12'11	10♌55	21°27	20°56	21°50	21°54	8° 3	14°22	15°13	28°17	11°D28	10°22	3°34	7°52	T 7	
W 8	1 8 23	15°11'38	23° 5	23° 4	20°45	22°33	22° 6	8° 5	14°26	15°15	28°16	11°28	10°19	3°41	7°49	W 8	
T 9	1 12 20	16°11'06	5♌30	24°41	20°36	23°16	22°18	8° 8	14°30	15°17	28°15	11°R29	10°16	3°47	7°46	T 9	
F 10	1 16 16	17°10'36	18°18	26°18	20°29	23°59	22°31	8°10	14°34	15°19	28°15	11°29	10°13	3°54	7°43	F 10	
S 11	1 20 13	18°10'08	1♌31	27°53	20°25	24°42	22°43	8°13	14°37	15°21	28°14	11°27	10°10	4° 1	7°40	S 11	
S 12	1 24 10	19° 9'41	15°12	29°28	20°D23	25°26	22°55	8°16	14°41	15°23	28°13	11°23	10° 6	4° 8	7°38	S 12	
M13	1 28 6	20° 9'17	29°20	1♌2	20°24	26° 9	23° 8	8°19	14°45	15°25	28°12	11°16	10° 3	4°14	7°35	M13	
T 14	1 32 3	21° 8'54	13♌54	2°36	20°27	26°53	23°20	8°22	14°49	15°27	28°11	11° 7	10° 0	4°21	7°32	T 14	
W15	1 35 59	22° 8'33	28°46	4° 9	20°32	27°37	23°32	8°25	14°52	15°29	28°10	10°57	9°57	4°28	7°29	W15	
T 16	1 39 56	23° 8'15	13♌47	5°41	20°40	28°21	23°44	8°29	14°56	15°31	28° 9	10°46	9°54	4°34	7°26	T 16	
F 17	1 43 52	24° 7'58	28°48	7°13	20°49	29° 4	23°56	8°32	15° 0	15°33	28° 9	10°36	9°51	4°41	7°23	F 17	
S 18	1 47 49	25° 7'44	13♌39	8°44	21° 2	29°48	24° 8	8°35	15° 4	15°35	28° 8	10°28	9°47	4°48	7°20	S 18	
S 19	1 51 45	26° 7'32	28°14	10°15	21°16	0♌32	24°20	8°39	15° 7	15°37	28° 7	10°23	9°44	4°55	7°17	S 19	
M20	1 55 42	27° 7'22	12♌28	11°45	21°32	1°16	24°32	8°43	15°11	15°40	28° 6	10°21	9°41	5° 1	7°14	M20	
T 21	1 59 39	28° 7'15	26°21	13°15	21°50	2° 1	24°44	8°46	15°15	15°42	28° 5	10°D20	9°38	5° 8	7°11	T 21	
W22	2 3 35	29° 7'10	9♌52	14°44	22°11	2°45	24°56	8°50	15°19	15°44	28° 4	10°R20	9°35	5°15	7° 8	W22	
T 23	2 7 32	0♌7'07	23° 5	16°12	22°33	3°29	25° 8	8°54	15°22	15°46	28° 3	10°20	9°31	5°21	7° 5	T 23	
F 24	2 11 28	1° 7'06	6♌2	17°40	22°57	4°14	25°19	8°58	15°26	15°48	28° 2	10°18	9°28	5°28	7° 2	F 24	
S 25	2 15 25	2° 7'07	18°45	19° 7	23°23	4°58	25°31	9° 2	15°30	15°50	28° 1	10°13	9°25	5°35	6°59	S 25	
S 26	2 19 21	3° 7'10	1♌17	20°34	23°50	5°43	25°42	9° 6	15°33	15°53	28° 0	10° 5	9°22	5°42	6°56	S 26	
M27	2 23 18	4° 7'16	13°39	22° 0	24°19	6°27	25°54	9°10	15°37	15°55	27°59	9°54	9°19	5°48	6°53	M27	
T 28	2 27 14	5° 7'23	25°53	23°25	24°50	7°12	26° 5	9°14	15°41	15°57	27°58	9°41	9°16	5°55	6°49	T 28	
W29	2 31 11	6° 7'32	7♌59	24°50	25°22	7°57	26°17	9°19	15°44	15°59	27°57	9°26	9°12	6° 2	6°46	W29	
T 30	2 35 8	7° 7'43	19°59	26°14	25°56	8°41	26°28	9°23	15°48	16° 2	27°56	9°11	9° 9	6° 8	6°43	T 30	
F 31	2 39 4	8♌7'56	1♌53	27♌37	26♌31	9♌26	26♌39	9♌28	15♌51	16♌4	27♌55	8♌57	9♌6	6♌15	6♌40	F 31	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	3s17	15s52	4s57	3s43	0n53	3s50	7s15	24s40	1s47	4n42	1n 4	22s57	0n18	4s58	0n37	14s43	1n44	7n 3	13s 6	17s12	17s35	25s27	13n 3	1s16			
T 2	3 41	20 6	5 4	4 28	0 47	3 30	7 3	24 44	1 46	4 37	1 4	22 57	0 18	4 59	0 37	14 43	1 44	7 2	13 6	17 15	17 36	25 28	13 2	1 16			
F 3	4 4	23 28	4 58	5 14	0 41	3 10	6 52	24 48	1 46	4 32	1 4	22 57	0 18	5 0	0 37	14 44	1 44	7 2	13 6	17 18	17 37	25 29	13 1	1 16			
S 4	4 27	25 48	4 39	5 58	0 34	2 50	6 39	24 51	1 46	4 27	1 4	22 57	0 18	5 2	0 37	14 44	1 44	7 2	13 6	17 20	17 38	25 30	13 0	1 16			
S 5	4 50	26 59	4 8	6 42	0 28	2 31	6 27	24 54	1 46	4 22	1 4	22 57	0 18	5 3	0 37	14 45	1 44	7 1	13 7	17 21	17 39	25 31	12 59	1 16			
M 6	5 14	26 55	3 26	7 26	0 21	2 13	6 14	24 57	1 46	4 17	1 4	22 57	0 18	5 5	0 37	14 46	1 44	7 1	13 7	17 22	17 40	25 32	12 58	1 16			
T 7	5 37	25 37	2 35	8 9	0 14	1 56	6 1	25 0	1 46	4 12	1 4	22 57	0 18	5 6	0 37	14 46	1 44	7 1	13 7	17 23	17 41	25 33	12 57	1 16			
W 8	6 0	23 6	1 36	8 52	0 8	1 39	5 47	25 2	1 46	4 8	1 4	22 57	0 18	5 8	0 37	14 47	1 44	7 0	13 7	17 23	17 41	25 34	12 56	1 16			
T 9	6 23	19 27	0 32	9 34	0 1	1 23	5 34	25 4	1 45	4 3	1 5	22 57	0 18	5 9	0 37	14 47	1 44	7 0	13 7	17 22	17 42	25 35	12 55	1 17			
F 10	6 46	14 48	0n36	10 16	0s 6	1 8	5 21	25 6	1 45	3 58	1 5	22 57	0 17	5 11	0 37	14 48	1 44	7 0	13 7	17 22	17 43	25 36	12 54	1 17			
S 11	7 8	9 20	1 44	10 57	0 13	0 54	5 7	25 8	1 45	3 53	1 5	22 57	0 17	5 12	0 37	14 49	1 44	7 0	13 7	17 23	17 44	25 37	12 53	1 17			
S 12	7 31	3 15	2 49	11 37	0 20	0 41	4 53	25 9	1 45	3 48	1 5	22 57	0 17	5 14	0 37	14 49	1 44	6 59	13 8	17 24	17 45	25 38	12 52	1 17			
M13	7 54	3n11	3 45	12 16	0 27	0 28	4 40	25 10	1 45	3 44	1 5	22 57	0 17	5 15	0 37	14 50	1 44	6 59	13 8	17 26	17 46	25 39	12 51	1 17			
T 14	8 16	9 37	4 28	12 55	0 33	0 17	4 26	25 11	1 44	3 39	1 5	22 56	0 17	5 17	0 37	14 51	1 44	6 59	13 8	17 28	17 47	25 40	12 50	1 17			
W15	8 38	15 38	4 55	13 34	0 40	0 7	4 13	25 12	1 44	3 34	1 5	22 56	0 17	5 18	0 37	14 51	1 44	6 58	13 8	17 31	17 47	25 41	12 49	1 17			
T 16	9 1	20 47	5 1	14 11	0 47	0n 2	4 0	25 13	1 44	3 29	1 5	22 56	0 17	5 20	0 37	14 52	1 44	6 58	13 8	17 34	17 48	25 42	12 48	1 17			
F 17	9 23	24 35	4 47	14 48	0 54	0 11	3 46	25 13	1 44	3 25	1 5	22 56	0 17	5 21	0 37	14 52	1 44	6 58	13 8	17 37	17 49	25 42	12 47	1 17			
S 18	9 45	26 40	4 13	15 24	1 0	0 18	3 33	25 13	1 43	3 20	1 6	22 56	0 17	5 22	0 37	14 53	1 44	6 57	13 8	17 39	17 50	25 43	12 46	1 18			
S 19	10 6	26 52	3 23	15 59	1 7	0 24	3 20	25 12	1 43	3 15	1 6	22 56	0 16	5 24	0 37	14 54	1 44	6 57	13 9	17 40	17 51	25 44	12 45	1 18			
M20	10 28	25 15	2 22	16 33	1 13	0 29	3 8	25 12	1 43	3 11	1 6	22 56	0 16	5 25	0 37	14 54	1 44	6 57	13 9	17 41	17 52	25 45	12 44	1 18			
T 21	10 50	22 8	1 13	17 7	1 20	0 34	2 55	25 11	1 42	3 6	1 6	22 56	0 16	5 27	0 37	14 55	1 44	6 56	13 9	17 41	17 53	25 46	12 43	1 18			
W22	11 11	17 51	0 2	17 39	1 26	0 37	2 43	25 10	1 42	3 2	1 6	22 55	0 16	5 28	0 37	14 56	1 44	6 56	13 9	17 41	17 53	25 47	12 42	1 18			
T 23	11 32	12 48	1s 7	18 11	1 32	0 39	2 31	25 8	1 42	2 57	1 6	22 55	0 16	5 30	0 37	14 56	1 44	6 56	13 9	17 41	17 54	25 48	12 40	1 18			
F 24	11 53	7 17	2 11	18 42	1 38	0 41	2 19	25 7	1 42	2 53	1 6	22 55	0 16	5 31	0 37	14 57	1 44	6 56	13 9	17 42	17 55	25 49	12 39	1 18			
S 25	12 14	1 35	3 8	19 12	1 44	0 41	2 7	25 5	1 41	2 48	1 6	22 55	0 16	5 32	0 37	14 58	1 44	6 55	13 9	17 43	17 56	25 49	12 38	1 18			
S 26	12 35	4s 5	3 54	19 41	1 49	0 41	1 56	25 3	1 41	2 44	1 7	22 55	0 16	5 34	0 37	14 58	1 44	6 55	13 9	17 45	17 57	25 50	12 37	1 18			
M27	12 55	9 31	4 29	20 9	1 55	0 39	1 45	25 0	1 41	2 39	1 7	22 55	0 16	5 35	0 37	14 59	1 44	6 55	13 9	17 48	17 58	25 51	12 36	1 19			
T 28	13 15	14 32	4 51	20 36	2 0	0 37	1 34	24 58	1 40	2 35	1 7	22 54	0 16	5 37	0 37	15 0	1 44	6 54	13 9	17 52	17 58	25 52	12 35	1 19			
W29	13 35	18 55	4 59	21 2	2 5	0 34	1 23	24 55	1 40	2 30	1 7	22 54	0 15	5 38	0 37	15 0	1 44	6 54	13 9	17 56	17 59	25 53	12 34	1 19			
T 30	13 55	22 29	4 54	21 27	2 9	0 30	1 13	24 51	1 39	2 26	1 7	22 54	0 15	5 39	0 37	15 1	1 44	6 54	13 10	18 0	18 0	25 54	12 33	1 19			
F 31	14s15	25s 5	4s36	21s50	2s14	0n26	1s 3	24s48	1s39	2n22	1n 7	22s54	0n15	5s41	0n37	15s 1	1n44	6n53	13s10	18s 3	18s 1	25s54	12n32	1s19			

ASTRODIENST EPHEMERIS for the year 1636
geocentric

NOVEMBER 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 43 1	9♉ 8'11	13♈44	28♉59	27♏7	10♈11	26♏50	9♈32	15♉55	16♉6	27°R54	8°R46	9♈3	6♈22	6°R37	S 1
S 2	2 46 57	10° 8'27	25°33	0♈20	27°45	10°56	27° 1	9°37	15°58	16° 8	27♈53	8♈37	9° 0	6°28	6♈34	S 2
M 3	2 50 54	11° 8'45	7♈23	1°40	28°24	11°41	27°12	9°41	16° 2	16°11	27°51	8°31	8°57	6°35	6°31	M 3
T 4	2 54 50	12° 9'05	19°18	2°59	29° 4	12°27	27°23	9°46	16° 5	16°13	27°50	8°28	8°53	6°42	6°28	T 4
W 5	2 58 47	13° 9'26	1♈24	4°17	29°46	13°12	27°34	9°51	16° 9	16°15	27°49	8°27	8°50	6°49	6°25	W 5
T 6	3 2 43	14° 9'48	13°45	5°33	0♈28	13°57	27°45	9°56	16°12	16°17	27°48	8°27	8°47	6°55	6°22	T 6
F 7	3 6 40	15°10'11	26°27	6°48	1°12	14°42	27°56	10° 1	16°16	16°20	27°47	8°27	8°44	7° 2	6°19	F 7
S 8	3 10 37	16°10'36	9♈34	8° 0	1°57	15°28	28° 6	10° 6	16°19	16°22	27°46	8°25	8°41	7° 9	6°16	S 8
S 9	3 14 33	17°11'03	23°10	9°11	2°42	16°13	28°17	10°11	16°23	16°24	27°45	8°21	8°37	7°15	6°13	S 9
M10	3 18 30	18°11'30	7♏17	10°19	3°29	16°59	28°27	10°16	16°26	16°26	27°44	8°14	8°34	7°22	6°10	M10
T 11	3 22 26	19°12'00	21°53	11°25	4°16	17°44	28°38	10°21	16°29	16°29	27°43	8° 5	8°31	7°29	6° 7	T 11
W12	3 26 23	20°12'30	6♈53	12°28	5° 5	18°30	28°48	10°27	16°33	16°31	27°42	7°54	8°28	7°36	6° 4	W12
T 13	3 30 19	21°13'02	22° 8	13°28	5°54	19°15	28°58	10°32	16°36	16°33	27°40	7°43	8°25	7°42	6° 1	T 13
F 14	3 34 16	22°13'36	7♏27	14°24	6°44	20° 1	29° 8	10°37	16°39	16°35	27°39	7°32	8°22	7°49	5°58	F 14
S 15	3 38 12	23°14'11	22°38	15°15	7°35	20°47	29°18	10°43	16°42	16°38	27°38	7°24	8°18	7°56	5°55	S 15
S 16	3 42 9	24°14'48	7♈33	16° 2	8°27	21°32	29°28	10°48	16°46	16°40	27°37	7°18	8°15	8° 2	5°52	S 16
M17	3 46 6	25°15'27	22° 3	16°44	9°19	22°18	29°38	10°54	16°49	16°42	27°36	7°15	8°12	8° 9	5°49	M17
T 18	3 50 2	26°16'07	6♏7	17°19	10°13	23° 4	29°47	11° 0	16°52	16°44	27°35	7°D15	8° 9	8°16	5°46	T 18
W19	3 53 59	27°16'49	19°44	17°47	11° 7	23°50	29°57	11° 5	16°55	16°46	27°34	7°15	8° 6	8°22	5°43	W19
T 20	3 57 55	28°17'32	2♏57	18° 8	12° 1	24°36	0♈6	11°11	16°58	16°49	27°33	7°R15	8° 3	8°29	5°41	T 20
F 21	4 1 52	29°18'17	15°49	18°21	12°56	25°22	0°16	11°17	17° 1	16°51	27°31	7°14	7°59	8°36	5°38	F 21
S 22	4 5 48	0♈19'04	28°23	18°R24	13°52	26° 8	0°25	11°23	17° 4	16°53	27°30	7°10	7°56	8°43	5°35	S 22
S 23	4 9 45	1°19'52	10♈44	18°17	14°49	26°54	0°34	11°29	17° 7	16°55	27°29	7° 4	7°53	8°49	5°32	S 23
M24	4 13 41	2°20'42	22°55	18° 0	15°46	27°40	0°43	11°35	17°10	16°58	27°28	6°55	7°50	8°56	5°30	M24
T 25	4 17 38	3°21'33	4♉58	17°32	16°43	28°26	0°52	11°41	17°13	17° 0	27°27	6°43	7°47	9° 3	5°27	T 25
W26	4 21 35	4°22'25	16°55	16°52	17°41	29°12	1° 1	11°47	17°16	17° 2	27°26	6°31	7°43	9° 9	5°25	W26
T 27	4 25 31	5°23'19	28°49	16° 2	18°40	29°58	1°10	11°53	17°19	17° 4	27°25	6°18	7°40	9°16	5°22	T 27
F 28	4 29 28	6°24'14	10♈40	15° 2	19°39	0♈44	1°18	11°59	17°22	17° 6	27°24	6° 6	7°37	9°23	5°19	F 28
S 29	4 33 24	7°25'10	22°31	13°53	20°39	1°30	1°27	12° 5	17°24	17° 8	27°22	5°57	7°34	9°29	5°17	S 29
S 30	4 37 21	8♈26'06	4♈21	12♈37	21♈39	2♈17	1♈35	12♈12	17♈27	17♈11	27♈21	5♈49	7♈31	9♈36	5♈14	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	14s34	26s34	4s 6	22s13	2s18	0n20	0s53	24s44	1s39	2n17	1n 7	22s54	0n15	5s42	0n37	15s 2	1n44	6n53	13s10	18s 6	18s 2	25s55	12n31	1s19			
S 2	14 53	26 50	3 26	22 35	2 22	0 14	0 43	24 40	1 38	2 13	1 7	22 53	0 15	5 43	0 37	15 3	1 44	6 53	13 10	18 9	18 3	25 56	12 29	1 19			
M 3	15 12	25 53	2 36	22 55	2 26	0 7	0 34	24 36	1 38	2 9	1 8	22 53	0 15	5 45	0 37	15 3	1 44	6 53	13 10	18 10	18 4	25 57	12 28	1 19			
T 4	15 31	23 44	1 39	23 14	2 29	0s 0	0 25	24 31	1 37	2 5	1 8	22 53	0 15	5 46	0 37	15 4	1 44	6 52	13 10	18 11	18 4	25 57	12 27	1 19			
W 5	15 49	20 30	0 37	23 31	2 31	0 9	0 16	24 26	1 37	2 0	1 8	22 53	0 15	5 48	0 37	15 5	1 44	6 52	13 10	18 11	18 5	25 58	12 26	1 19			
T 6	16 7	16 17	0n28	23 48	2 34	0 18	0 7	24 21	1 37	1 56	1 8	22 52	0 15	5 49	0 37	15 5	1 44	6 52	13 10	18 11	18 6	25 59	12 25	1 19			
F 7	16 25	11 15	1 34	24 3	2 36	0 27	0n 1	24 16	1 36	1 52	1 8	22 52	0 15	5 50	0 37	15 6	1 44	6 52	13 10	18 11	18 7	26 0	12 24	1 20			
S 8	16 43	5 35	2 37	24 16	2 37	0 38	0 10	24 10	1 36	1 48	1 8	22 52	0 15	5 51	0 37	15 7	1 44	6 51	13 10	18 12	18 8	26 0	12 23	1 20			
S 9	17 0	0n33	3 33	24 28	2 38	0 48	0 18	24 5	1 35	1 44	1 9	22 51	0 14	5 53	0 37	15 7	1 44	6 51	13 10	18 13	18 9	26 1	12 22	1 20			
M10	17 17	6 51	4 19	24 39	2 38	1 0	0 25	23 58	1 35	1 40	1 9	22 51	0 14	5 54	0 37	15 8	1 44	6 51	13 10	18 15	18 9	26 2	12 21	1 20			
T 11	17 34	13 0	4 49	24 48	2 38	1 12	0 33	23 52	1 34	1 36	1 9	22 51	0 14	5 55	0 37	15 9	1 44	6 51	13 10	18 17	18 10	26 3	12 20	1 20			
W12	17 50	18 34	5 1	24 56	2 37	1 25	0 40	23 45	1 34	1 32	1 9	22 50	0 14	5 57	0 37	15 9	1 44	6 50	13 10	18 20	18 11	26 3	12 19	1 20			
T 13	18 6	23 2	4 51	25 2	2 35	1 38	0 47	23 38	1 33	1 28	1 9	22 50	0 14	5 58	0 37	15 10	1 44	6 50	13 10	18 23	18 12	26 4	12 18	1 20			
F 14	18 22	25 53	4 21	25 6	2 32	1 51	0 54	23 31	1 33	1 24	1 9	22 50	0 14	5 59	0 37	15 10	1 44	6 50	13 10	18 25	18 13	26 5	12 17	1 20			
S 15	18 37	26 49	3 33	25 8	2 29	2 5	1 0	23 24	1 32	1 21	1 10	22 49	0 14	6 0	0 37	15 11	1 44	6 50	13 10	18 28	18 14	26 5	12 16	1 20			
S 16	18 52	25 47	2 30	25 9	2 24	2 20	1 7	23 16	1 32	1 17	1 10	22 49	0 14	6 1	0 37	15 12	1 44	6 49	13 10	18 29	18 14	26 6	12 15	1 20			
M17	19 7	22 59	1 20	25 8	2 19	2 35	1 13	23 8	1 31	1 13	1 10	22 49	0 14	6 3	0 37	15 12	1 44	6 49	13 10	18 30	18 15	26 7	12 14	1 20			
T 18	19 21	18 53	0 6	25 5	2 12	2 51	1 19	23 0	1 31	1 9	1 10	22 48	0 14	6 4	0 37	15 13	1 44	6 49	13 10	18 30	18 16	26 7	12 13	1 20			
W19	19 36	13 53	1s 6	24 59	2 4	3 6	1 25	22 52	1 30	1 6	1 10	22 48	0 14	6 5	0 37	15 14	1 44	6 49	13 10	18 30	18 17	26 8	12 12	1 20			
T 20	19 49	8 23	2 12	24 52	1 55	3 23	1 30	22 43	1 30	1 2	1 11	22 48	0 13	6 6	0 37	15 14	1 44	6 49	13 10	18 30	18 18	26 9	12 11	1 20			
F 21	20 3	2 42	3 10	24 43	1 45	3 39	1 35	22 34	1 29	0 59	1 11	22 47	0 13	6 7	0 37	15 15	1 44	6 48	13 10	18 30	18 18	26 9	12 10	1 20			
S 22	20 16	2s58	3 57	24 31	1 32	3 56	1 40	22 25	1 29	0 55	1 11	22 47	0 13	6 9	0 37	15 15	1 44	6 48	13 10	18 31	18 19	26 10	12 9	1 21			
S 23	20 28	8 25	4 32	24 17	1 19	4 14	1 45	22 16	1 28	0 52	1 11	22 46	0 13	6 10	0 37	15 16	1 44	6 48	13 10	18 33	18 20	26 11	12 8	1 21			
M24	20 40	13 28	4 54	24 0	1 4	4 32	1 50	22 6	1 27	0 48	1 11	22 46	0 13	6 11	0 38	15 17	1 44	6 48	13 10	18 35	18 21	26 11	12 7	1 21			
T 25	20 52	17 57	5 2	23 41	0 47	4 50	1 54	21 56	1 27	0 45	1 12	22 45	0 13	6 12	0 38	15 17	1 44	6 48	13 10	18 38	18 22	26 12	12 6	1 21			
W26	21 4	21 41	4 58	23 20	0 30	5 8	1 59	21 46	1 26	0 42	1 12	22 45	0 13	6 13	0 38	15 18	1 44	6 47	13 10	18 41	18 23	26 13	12 5	1 21			
T 27	21 15	24 29	4 40	22 56	0 11	5 26	2 3	21 36	1 26	0 38	1 12	22 45	0 13	6 14	0 38	15 18	1 44	6 47	13 10	18 44	18 24	26 13	12 4	1 21			
F 28	21 25	26 13	4 10	22 30	0n 9	5 45	2 7	21 25	1 25	0 35	1 12	22 44	0 13	6 15	0 38	15 19	1 44	6 47	13 9	18 47	18 24	26 14	12 3	1 21			
S 29	21 36	26 46	3 29	22 2	0 29	6 4	2 10	21 14	1 25	0 32	1 12	22 44	0 13	6 16	0 38	15 20	1 44	6 47	13 9	18 49	18 25	26 14	12 2	1 21			
S 30	21s45	26s 4	2s40	21s32	0n50	6s23	2n14	21s 3	1s24	0n29	1n13	22s43	0n13	6s17	0n38	15s20	1n44	6n47	13s 9	18s51	18s26	26s15	12n 1	1s21			

ASTRODIENST EPHEMERIS for the year 1636

geocentric

DECEMBER 1636 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 41 17	9°27'04	16°31'5	11°R16	22°23'9	3°33' 3	1°43'3	12°31'8	17°23'0	17°11'3	27°R20	5°R44	7°28'2	9°27'4	5°R12	M 1
T 2	4 45 14	10°28'03	28°14'	9°25'3	23°40'	3°49'	1°51'	12°24'	17°33'	17°15'	27°R19	5°22'2	7°24'	9°50'	5°R10	T 2
W 3	4 49 10	11°29'02	10°22'	8°31'	24°42'	4°35'	1°59'	12°31'	17°35'	17°17'	27°18'	5°D42	7°21'	9°56'	5° 7	W 3
T 4	4 53 7	12°30'02	22°43'	7°12'	25°43'	5°22'	2° 7'	12°37'	17°38'	17°19'	27°17'	5°43'	7°18'	10° 3	5° 5	T 4
F 5	4 57 4	13°31'03	5°22'	6° 0'	26°46'	6° 8'	2°15'	12°44'	17°40'	17°21'	27°16'	5°44'	7°15'	10°10'	5° 3	F 5
S 6	5 1 0	14°32'04	18°22'	4°55'	27°48'	6°55'	2°22'	12°50'	17°43'	17°23'	27°15'	5°R44	7°12'	10°16'	5° 1	S 6
S 7	5 4 57	15°33'05	1°49'	4° 0'	28°51'	7°41'	2°30'	12°57'	17°45'	17°25'	27°14'	5°43'	7° 9	10°23'	4°58'	S 7
M 8	5 8 53	16°34'07	15°44'	3°16'	29°54'	8°27'	2°37'	13° 3	17°48'	17°27'	27°13'	5°39'	7° 5	10°30'	4°56'	M 8
T 9	5 12 50	17°35'10	0°8' 8	2°42'	0°15'8	9°14'	2°44'	13°10'	17°50'	17°29'	27°12'	5°34'	7° 2	10°37'	4°54'	T 9
W10	5 16 46	18°36'13	14°57'	2°20'	2° 2	10° 0	2°51'	13°16'	17°52'	17°31'	27°10'	5°27'	6°59'	10°43'	4°52'	W10
T 11	5 20 43	19°37'17	0°11' 6	2° 9	3° 6	10°47'	2°58'	13°23'	17°55'	17°33'	27° 9	5°20'	6°56'	10°50'	4°50'	T 11
F 12	5 24 39	20°38'21	15°24'	2°D 8	4°10'	11°33'	3° 5	13°30'	17°57'	17°35'	27° 8	5°13'	6°53'	10°57'	4°48'	F 12
S 13	5 28 36	21°39'26	0°24' 1	2°17'	5°15'	12°20'	3°11'	13°36'	17°59'	17°37'	27° 7	5° 7	6°49'	11° 3	4°46'	S 13
S 14	5 32 33	22°40'31	15°46'	2°34'	6°20'	13° 6	3°18'	13°43'	18° 1	17°39'	27° 6	5° 4	6°46'	11°10'	4°45'	S 14
M15	5 36 29	23°41'37	0°23' 0	3° 0	7°26'	13°52'	3°24'	13°50'	18° 3	17°41'	27° 5	5°D 2	6°43'	11°17'	4°43'	M15
T 16	5 40 26	24°42'44	14°48'	3°33'	8°31'	14°39'	3°30'	13°57'	18° 5	17°43'	27° 4	5° 2	6°40'	11°23'	4°41'	T 16
W17	5 44 22	25°43'51	28°37'	4°12'	9°37'	15°25'	3°36'	14° 4	18° 7	17°45'	27° 3	5° 4	6°37'	11°30'	4°39'	W17
T 18	5 48 19	26°44'59	11°11' 5	4°57'	10°43'	16°12'	3°42'	14°11'	18° 9	17°47'	27° 2	5° 5	6°34'	11°37'	4°38'	T 18
F 19	5 52 15	27°46'08	24°56'	5°48'	11°50'	16°58'	3°48'	14°17'	18°11'	17°48'	27° 1	5°R 6	6°30'	11°44'	4°36'	F 19
S 20	5 56 12	28°47'17	7°23'2	6°42'	12°57'	17°45'	3°53'	14°24'	18°13'	17°50'	27° 0	5° 6	6°27'	11°50'	4°35'	S 20
S 21	6 0 9	29°48'26	19°51'	7°41'	14° 4	18°31'	3°58'	14°31'	18°15'	17°52'	27° 0	5° 4	6°24'	11°57'	4°33'	S 21
M22	6 4 5	0°34'37	1°15'7	8°43'	15°11'	19°18'	4° 4	14°38'	18°16'	17°54'	26°59'	5° 0	6°21'	12° 4	4°32'	M22
T 23	6 8 2	1°50'48	13°55'	9°49'	16°18'	20° 5	4° 9	14°45'	18°18'	17°56'	26°58'	4°55'	6°18'	12°10'	4°31'	T 23
W24	6 11 58	2°51'59	25°47'	10°57'	17°26'	20°51'	4°13'	14°52'	18°20'	17°57'	26°57'	4°49'	6°15'	12°17'	4°29'	W24
T 25	6 15 55	3°53'10	7°23'8	12° 8	18°33'	21°38'	4°18'	14°59'	18°21'	17°59'	26°56'	4°43'	6°11'	12°24'	4°28'	T 25
F 26	6 19 51	4°54'22	19°28'	13°21'	19°41'	22°24'	4°23'	15° 6	18°23'	18° 1	26°55'	4°37'	6° 8	12°30'	4°27'	F 26
S 27	6 23 48	5°55'34	1°32'1	14°35'	20°49'	23°11'	4°27'	15°13'	18°24'	18° 2	26°54'	4°32'	6° 5	12°37'	4°26'	S 27
S 28	6 27 44	6°56'46	13°17'	15°52'	21°58'	23°57'	4°31'	15°20'	18°26'	18° 4	26°53'	4°29'	6° 2	12°44'	4°25'	S 28
M29	6 31 41	7°57'58	25°19'	17°10'	23° 6	24°44'	4°35'	15°27'	18°27'	18° 6	26°53'	4°27'	5°59'	12°50'	4°24'	M29
T 30	6 35 38	8°59'10	7°28'8	18°29'	24°15'	25°30'	4°39'	15°34'	18°29'	18° 7	26°52'	4°D27	5°55'	12°57'	4°23'	T 30
W31	6 39 34	10°0'21	19°24'7	19°25'0	25°11'2	26°17'7	4°43'3	15°34'1	18°29'0	18° 9	26°51'5	4°28'8	5°52'2	13°2' 4	4°22'2	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	21s55	24s11	1s42	21s 1	1n10	6s43	2n17	20s52	1s23	0n26	1n13	22s43	0n13	6s18	0n38	15s21
T 2	22 4	21 13	0 40	20 31	1 29	7 2	2 20	20 41	1 23	0 23	1 13	22 42	0 12	6 19	0 38	15 21
W 3	22 12	17 17	0n25	20 1	1 47	7 22	2 23	20 29	1 22	0 20	1 13	22 42	0 12	6 20	0 38	15 22
T 4	22 20	12 33	1 30	19 33	2 3	7 42	2 26	20 17	1 22	0 17	1 13	22 41	0 12	6 21	0 38	15 22
F 5	22 28	7 12	2 33	19 7	2 16	8 2	2 29	20 5	1 21	0 14	1 14	22 41	0 12	6 22	0 38	15 23
S 6	22 35	1 24	3 29	18 44	2 28	8 22	2 31	19 53	1 20	0 11	1 14	22 40	0 12	6 23	0 38	15 24
S 7	22 42	4n38	4 16	18 25	2 37	8 42	2 33	19 40	1 20	0 8	1 14	22 39	0 12	6 24	0 38	15 24
M 8	22 49	10 39	4 50	18 10	2 44	9 2	2 35	19 27	1 19	0 6	1 14	22 39	0 12	6 25	0 38	15 25
T 9	22 54	16 19	5 6	17 59	2 49	9 22	2 37	19 14	1 18	0 3	1 15	22 38	0 12	6 26	0 38	15 25
W10	23 0	21 11	5 4	17 52	2 52	9 43	2 39	19 1	1 18	0 0	1 15	22 38	0 12	6 27	0 38	15 26
T 11	23 5	24 46	4 40	17 49	2 53	10 3	2 41	18 48	1 17	0s 2	1 15	22 37	0 12	6 27	0 38	15 26
F 12	23 9	26 36	3 56	17 49	2 52	10 24	2 42	18 35	1 16	0 4	1 15	22 37	0 12	6 28	0 38	15 27
S 13	23 13	26 24	2 55	17 53	2 50	10 44	2 43	18 21	1 16	0 7	1 16	22 36	0 12	6 29	0 38	15 27
S 14	23 17	24 15	1 43	17 59	2 47	11 4	2 45	18 7	1 15	0 9	1 16	22 35	0 11	6 30	0 38	15 28
M15	23 20	20 29	0 25	18 8	2 43	11 25	2 46	17 53	1 14	0 11	1 16	22 35	0 11	6 31	0 38	15 28
T 16	23 23	15 35	0s53	18 20	2 38	11 45	2 46	17 39	1 14	0 14	1 16	22 34	0 11	6 31	0 38	15 29
W17	23 25	10 2	2 5	18 33	2 32	12 5	2 47	17 24	1 13	0 16	1 17	22 33	0 11	6 32	0 38	15 29
T 18	23 27	4 11	3 7	18 47	2 25	12 25	2 48	17 10	1 12	0 18	1 17	22 33	0 11	6 33	0 38	15 30
F 19	23 28	1s38	3 58	19 3	2 18	12 45	2 48	16 55	1 12	0 20	1 17	22 32	0 11	6 33	0 38	15 30
S 20	23 29	7 13	4 36	19 19	2 11	13 5	2 48	16 40	1 11	0 22	1 17	22 31	0 11	6 34	0 38	15 31
S 21	23 29	12 25	5 1	19 36	2 3	13 25	2 48	16 25	1 10	0 24	1 18	22 31	0 11	6 35	0 38	15 31
M22	23 29	17 2	5 11	19 54	1 55	13 44	2 48	16 10	1 10	0 26	1 18	22 30	0 11	6 35	0 38	15 32
T 23	23 29	20 56	5 8	20 12	1 47	14 4	2 48	15 54	1 9	0 27	1 18	22 29	0 11	6 36	0 38	15 32
W24	23 27	23 57	4 51	20 30	1 39	14 23	2 48	15 39	1 8	0 29	1 18	22 29	0 11	6 37	0 38	15 33
T 25	23 26	25 56	4 22	20 48	1 31	14 42	2 48	15 23	1 7	0 31	1 19	22 28	0 11	6 37	0 38	15 33
F 26	23 24	26 45	3 42	21 5	1 22	15 1	2 47	15 7	1 7	0 32	1 19	22 27	0 11	6 38	0 38	15 33
S 27	23 21	26 20	2 52	21 22	1 14	15 19	2 47	14 51	1 6	0 34	1 19	22 27	0 10	6 38	0 38	15 34
S 28	23 18	24 42	1 54	21 39	1 6	15 37	2 46	14 35	1 5	0 35	1 19	22 26	0 10	6 39	0 38	15 34
M29	23 15	21 56	0 50	21 55	0 57	15 55	2 45	14 19	1 5	0 37	1 20	22 25	0 10	6 39	0 38	15 35
T 30	23 11	18 10	0n17	22 11	0 49	16 13	2 44	14 3	1 4	0 38	1 20	22 24	0 10	6 40	0 38	15 35
W31	23s 7	13s35	1n23	22s25	0n41	16s31	2n43	13s46	1s 3	0s39	1n20	22s24	0n10	6s40	0n38	15s35

Julian Day Number = 2318931.5, Delta T = 52.64 sec

Ecliptic obliquity = 23°29'16", Nutation = 0°00'13", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°40'21", Lahiri = 18°47'22"Greg. Calendar