



Astrodienst Ephemeris Tables for the year 1652

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 1652
geocentric

JANUARY 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 41 0	10°21'42	6°52	10°21	18°21	19°47	25°45	26°R22	23°26	19°49	11°R34	15°R37	15°Y44	23°Q27	7°Δ 9	M 1	
T 2	6 44 56	11°22'51	18°41	11°48	19°36	20°34	25°58	26°Q18	23°29	19°51	11°II33	15°Y33	15°41	23°34	7°11	T 2	
W 3	6 48 53	12°24'01	0°Δ35	13°26	20°51	21°21	26°12	26°13	23°33	19°54	11°32	15°31	15°37	23°40	7°14	W 3	
T 4	6 52 49	13°25'11	12°39	15° 4	22° 7	22° 8	26°25	26° 8	23°36	19°56	11°31	15°31	15°34	23°47	7°16	T 4	
F 5	6 56 46	14°26'21	24°58	16°43	23°22	22°55	26°39	26° 4	23°40	19°58	11°30	15°31	15°31	23°54	7°18	F 5	
S 6	7 0 43	15°27'31	7°II39	18°22	24°37	23°42	26°52	25°59	23°43	20° 0	11°29	15°29	15°28	24° 1	7°20	S 6	
S 7	7 4 39	16°28'40	20°46	20° 1	25°53	24°29	27° 6	25°54	23°47	20° 2	11°28	15°26	15°25	24° 7	7°22	S 7	
M 8	7 8 36	17°29'50	4°Δ21	21°41	27° 8	25°16	27°19	25°49	23°50	20° 4	11°27	15°20	15°22	24°14	7°23	M 8	
T 9	7 12 32	18°31'00	18°26	23°22	28°24	26° 3	27°32	25°44	23°53	20° 6	11°27	15°12	15°18	24°21	7°25	T 9	
W10	7 16 29	19°32'09	2°Δ57	25° 3	29°39	26°50	27°45	25°39	23°57	20° 8	11°26	15° 1	15°15	24°27	7°26	W10	
T 11	7 20 25	20°33'18	17°50	26°44	0°Δ54	27°37	27°59	25°34	24° 0	20°10	11°25	14°49	15°12	24°34	7°28	T 11	
F 12	7 24 22	21°34'27	2°Δ56	28°26	2°10	28°23	28°12	25°29	24° 4	20°12	11°24	14°37	15° 9	24°41	7°29	F 12	
S 13	7 28 18	22°35'35	18° 3	0°Δ 8	3°25	29°10	28°25	25°24	24° 7	20°14	11°23	14°27	15° 6	24°47	7°30	S 13	
S 14	7 32 15	23°36'42	3°Δ 2	1°50	4°40	29°57	28°38	25°20	24°10	20°16	11°22	14°19	15° 3	24°54	7°31	S 14	
M15	7 36 12	24°37'48	17°46	3°32	5°56	0°Δ44	28°51	25°15	24°13	20°18	11°22	14°14	14°59	25° 1	7°32	M15	
T 16	7 40 8	25°38'53	2°Y 8	5°15	7°11	1°31	29° 4	25°10	24°17	20°20	11°21	14°12	14°56	25° 7	7°32	T 16	
W17	7 44 5	26°39'57	16° 6	6°57	8°26	2°18	29°17	25° 5	24°20	20°22	11°20	14°D12	14°53	25°14	7°33	W17	
T 18	7 48 1	27°41'01	29°43	8°40	9°41	3° 5	29°30	25° 0	24°23	20°24	11°19	14°R12	14°50	25°21	7°34	T 18	
F 19	7 51 58	28°42'03	12°Δ59	10°22	10°57	3°51	29°43	24°55	24°26	20°26	11°18	14°11	14°47	25°28	7°34	F 19	
S 20	7 55 54	29°43'04	25°57	12° 4	12°12	4°38	29°56	24°50	24°29	20°28	11°18	14° 8	14°43	25°34	7°34	S 20	
S 21	7 59 51	0°Δ44'04	8°II40	13°46	13°27	5°25	0°Δ 9	24°45	24°33	20°30	11°17	14° 3	14°40	25°41	7°R34	S 21	
M22	8 3 47	1°45'03	21°12	15°27	14°42	6°12	0°22	24°40	24°36	20°31	11°16	13°54	14°37	25°48	7°34	M22	
T 23	8 7 44	2°46'01	3°Δ33	17° 6	15°57	6°58	0°34	24°35	24°39	20°33	11°16	13°43	14°34	25°54	7°34	T 23	
W24	8 11 41	3°46'58	15°46	18°44	17°12	7°45	0°47	24°30	24°42	20°35	11°15	13°30	14°31	26° 1	7°34	W24	
T 25	8 15 37	4°47'54	27°51	20°21	18°28	8°32	1° 0	24°25	24°45	20°37	11°14	13°17	14°28	26° 8	7°34	T 25	
F 26	8 19 34	5°48'48	9°Δ50	21°55	19°43	9°19	1°12	24°21	24°48	20°38	11°14	13° 4	14°24	26°14	7°33	F 26	
S 27	8 23 30	6°49'42	21°44	23°27	20°58	10° 5	1°25	24°16	24°51	20°40	11°13	12°52	14°21	26°21	7°32	S 27	
S 28	8 27 27	7°50'35	3°Δ34	24°56	22°13	10°52	1°37	24°11	24°54	20°42	11°13	12°43	14°18	26°28	7°32	S 28	
M29	8 31 23	8°51'26	15°23	26°20	23°28	11°38	1°49	24° 6	24°56	20°44	11°12	12°36	14°15	26°34	7°31	M29	
T 30	8 35 20	9°52'17	27°12	27°41	24°43	12°25	2° 2	24° 2	24°59	20°45	11°11	12°33	14°12	26°41	7°30	T 30	
W31	8 39 16	10°53'06	9°Δ 7	28°Δ56	25°Δ58	13°Δ11	2°Δ14	23°Δ57	25°Δ 2	20°Δ47	11°II11	12°D31	14°Y 9	26°Δ48	7°Δ29	W31	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23s 5	11n56	3n 9	24s55	1s49	23s16	1s 3	15s58	1s 7	23s 9	0n16	21n 7	0n12	23s27	0s 8	21s47	1n19	12n27	9s51	6n 9	6n12	17n34	5s44	3s 8					
T 2	23 0	6 35	2 17	24 50	1 53	23 7	1 4	15 43	1 6	23 10	0 16	21 8	0 12	23 28	0 8	21 47	1 19	12 27	9 51	6 8	6 11	17 32	5 45	3 8					
W 3	22 54	0 58	1 18	24 43	1 55	22 57	1 6	15 27	1 6	23 10	0 16	21 9	0 12	23 28	0 8	21 47	1 19	12 28	9 50	6 7	6 10	17 29	5 46	3 9					
T 4	22 49	4s46	0 15	24 35	1 58	22 47	1 8	15 11	1 5	23 10	0 16	21 10	0 12	23 28	0 8	21 47	1 19	12 28	9 50	6 7	6 8	17 26	5 46	3 9					
F 5	22 42	10 28	0s50	24 26	2 0	22 36	1 9	14 55	1 5	23 11	0 16	21 11	0 12	23 28	0 8	21 48	1 19	12 28	9 50	6 7	6 7	17 23	5 47	3 9					
S 6	22 35	15 53	1 54	24 15	2 2	22 24	1 11	14 39	1 4	23 11	0 16	21 12	0 12	23 28	0 8	21 48	1 19	12 28	9 50	6 7	6 6	17 20	5 48	3 9					
S 7	22 28	20 47	2 55	24 2	2 4	22 12	1 12	14 23	1 4	23 12	0 16	21 13	0 12	23 28	0 8	21 48	1 19	12 28	9 50	6 5	6 5	17 18	5 49	3 9					
M 8	22 20	24 47	3 47	23 47	2 5	21 59	1 14	14 7	1 3	23 12	0 16	21 14	0 12	23 29	0 8	21 48	1 19	12 28	9 50	6 3	6 4	17 15	5 50	3 9					
T 9	22 12	27 26	4 28	23 31	2 6	21 45	1 15	13 50	1 2	23 12	0 15	21 15	0 13	23 29	0 8	21 48	1 19	12 28	9 49	6 0	6 2	17 12	5 50	3 9					
W10	22 4	28 21	4 54	23 14	2 6	21 31	1 16	13 34	1 2	23 13	0 15	21 16	0 13	23 29	0 8	21 48	1 19	12 28	9 49	5 56	6 1	17 9	5 51	3 9					
T 11	21 55	27 15	5 0	22 55	2 6	21 16	1 18	13 17	1 1	23 13	0 15	21 17	0 13	23 29	0 8	21 48	1 19	12 28	9 49	5 51	6 0	17 7	5 52	3 9					
F 12	21 45	24 10	4 45	22 34	2 5	21 0	1 19	13 0	1 1	23 13	0 15	21 18	0 13	23 29	0 8	21 49	1 19	12 28	9 49	5 46	5 59	17 4	5 52	3 9					
S 13	21 35	19 25	4 11	22 11	2 4	20 44	1 20	12 43	1 0	23 14	0 15	21 19	0 13	23 29	0 8	21 49	1 19	12 28	9 49	5 42	5 57	17 1	5 53	3 9					
S 14	21 25	13 30	3 19	21 47	2 3	20 27	1 21	12 26	0 59	23 14	0 15	21 20	0 13	23 30	0 8	21 49	1 19	12 28	9 48	5 39	5 56	16 58	5 53	3 9					
M15	21 14	6 55	2 15	21 21	2 1	20 9	1 22	12 9	0 59	23 14	0 15	21 21	0 13	23 30	0 8	21 49	1 19	12 28	9 48	5 37	5 55	16 55	5 53	3 9					
T 16	21 3	0 7	1 3	20 54	1 58	19 51	1 23	11 52	0 58	23 14	0 15	21 22	0 13	23 30	0 8	21 49	1 19	12 28	9 48	5 37	5 54	16 53	5 54	3 9					
W17	20 52	6n30	0n10	20 25	1 55	19 33	1 24	11 34	0 58	23 14	0 15	21 23	0 13	23 30	0 8	21 49	1 19	12 28	9 48	5 36	5 53	16 50	5 54	3 9					
T 18	20 40	12 40	1 21	19 55	1 51	19 14	1 25	11 17	0 57	23 14	0 15	21 24	0 14	23 30	0 8	21 49	1 19	12 28	9 48	5 37	5 51	16 47	5 54	3 9					
F 19	20 28	18 5	2 26	19 23	1 47	18 54	1 26	10 59	0 56	23 15	0 15	21 25	0 14	23 30	0 8	21 49	1 19	12 29	9 48	5 36	5 50	16 44	5 54	3 9					
S 20	20 15	22 33	3 22	18 50	1 41	18 33	1 27	10 42	0 56	23 15	0 15	21 26	0 14	23 30	0 8	21 50	1 19	12 29	9 47	5 35	5 49	16 41	5 55	3 9					
S 21	20 2	25 51	4 6	18 15	1 36	18 13	1 27	10 24	0 55	23 15	0 15	21 27	0 14	23 31	0 8	21 50	1 19	12 29	9 47	5 33	5 48	16 38	5 55	3 10					
M22	19 49	27 49	4 38	17 39	1 29	17 51	1 28	10 6	0 54	23 15	0 14	21 28	0 14	23 31	0 8	21 50	1 19	12 29	9 47	5 30	5 46	16 36	5 55	3 10					
T 23	19 35	28 23	4 56	17 2	1 22	17 30	1 28	9 48	0 54	23 15	0 14	21 29	0 14	23 31	0 8	21 50	1 19	12 29	9 47	5 25	5 45	16 33	5 55	3 10					
W24	19 21	27 32	5 1	16 24	1 14	17 7	1 29	9 30	0 53	23 15	0 14	21 30	0 14	23 31	0 8	21 50	1 19	12 29	9 46	5 20	5 44	16 30	5 55	3 10					
T 25	19 6	25 24	4 52	15 45	1 5	16 44	1 29	9 12	0 52	23 15	0 14	21 31	0 14	23 31	0 8	21 50	1 19	12 29	9 46	5 15	5 43	16 27	5 54	3 10					
F 26	18 51	22 9	4 30	15 6	0 55	16 21	1 30	8 54	0 52	23 15	0 14	21 32	0 14	23 31	0 8	21 50	1 19	12 29	9 46	5 10	5 41	16 24	5 54	3 10					
S 27	18 36	18 0	3 56	14 26	0 45	15 57	1 30	8 35	0 51	23 15	0 14	21 33	0 15	23 31	0 8	21 50	1 19	12 30	9 46	5 6	5 40	16 21	5 54	3 10					
S 28	18 21	13 12	3 12	13 46	0 33	15 33	1 30	8 17	0 51	23 15	0 14	21 34	0 15	23 32	0 8	21 50	1 19	12 30	9 46	5 2	5 39	16 18	5 54	3 10					
M29	18 5	7 55	2 19	13 6	0 2	15 9	1 30	7 59	0 50	23 15	0 14	21 34	0 15	23 32	0 8	21 50	1 19	12 30	9 45	4 59	5 38	16 16	5 53	3 10					
T 30	17 49	2 21	1 21	12 26	0 8	14 44	1 30	7 40	0 49	23 14	0 14	21 35	0 15	23 32	0 8	21 51	1 19	12 30	9 45	4 58	5 37	16 13	5 53	3 10					
W31	17s32	3s21	0n18	11s47	0n 5	14s18	1s31	7s22	0s49	23s14	0n14	21n36	0n15	23s32	0s 8	21s51	1n19	12n30	9s45	4n57	5n35	16n10	5s53	3s10					

ASTRODIENST EPHEMERIS for the year 1652
geocentric

FEBRUARY 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 13	11 ⁵³ 55	21 ¹¹ 11	0 ¹¹ 6	27 ²⁸ 13	13 ¹¹ 58	2 ²³ 26	23 ¹¹ R52	25 ²¹ 5	20 ²¹ 48	11 ¹¹ R10	12 ¹¹ Y32	14 ¹¹ Y 5	26 ¹¹ Ω54	7 ¹¹ R28	T 1
F 2	8 47 10	12 ⁵⁴ 43	3 ¹¹ 28	1 ¹¹ 8	28 ²⁸ 28	14 ¹¹ 44	2 ³⁸ 38	23 ¹¹ Ω48	25 ²¹ 8	20 ²¹ 50	11 ¹¹ II10	12 ¹¹ 32	14 ¹¹ 2	27 ¹¹ 1	7 ¹¹ Ω26	F 2
S 3	8 51 6	13 ⁵⁵ 29	16 ¹¹ 4	2 ¹¹ 4	29 ²⁸ 43	15 ¹¹ 31	2 ⁵⁰ 50	23 ¹¹ 43	25 ²¹ 10	20 ²¹ 52	11 ¹¹ 9	12 ¹¹ R33	13 ¹¹ 59	27 ¹¹ 8	7 ¹¹ 25	S 3
S 4	8 55 3	14 ⁵⁶ 15	29 ¹¹ 4	2 ⁵¹ 1	0 ¹¹ 58	16 ¹¹ 17	3 ¹¹ 2	23 ¹¹ 39	25 ²¹ 13	20 ²¹ 53	11 ¹¹ 9	12 ¹¹ 32	13 ¹¹ 56	27 ¹¹ 15	7 ¹¹ 23	S 4
M 5	8 58 59	15 ⁵⁷ 00	12 ¹¹ 32	3 ³⁰ 0	2 ¹¹ 13	17 ¹¹ 4	3 ¹¹ 14	23 ¹¹ 35	25 ²¹ 16	20 ²¹ 55	11 ¹¹ 9	12 ¹¹ 28	13 ¹¹ 53	27 ¹¹ 21	7 ¹¹ 22	M 5
T 6	9 2 56	16 ⁵⁷ 44	26 ¹¹ 29	3 ⁵⁹ 3	3 ²⁸ 17	17 ¹¹ 50	3 ²⁶ 26	23 ¹¹ 30	25 ²¹ 18	20 ²¹ 56	11 ¹¹ 8	12 ¹¹ 23	13 ¹¹ 49	27 ¹¹ 28	7 ¹¹ 20	T 6
W 7	9 6 52	17 ⁵⁸ 27	10 ¹¹ 35	4 ¹⁸ 4	4 ⁴³ 18	18 ¹¹ 37	3 ³⁷ 26	23 ¹¹ 26	25 ²¹ 21	20 ²¹ 58	11 ¹¹ 8	12 ¹¹ 16	13 ¹¹ 46	27 ¹¹ 35	7 ¹¹ 18	W 7
T 8	9 10 49	18 ⁵⁹ 08	25 ¹¹ 48	4 ¹¹ R27	5 ⁵⁷ 19	19 ¹¹ 23	3 ⁴⁹ 22	23 ¹¹ 22	25 ²¹ 23	20 ²¹ 59	11 ¹¹ 7	12 ¹¹ 7	13 ¹¹ 43	27 ¹¹ 41	7 ¹¹ 16	T 8
F 9	9 14 46	19 ⁵⁹ 48	10 ¹¹ 59	4 ²⁵ 7	7 ¹² 12	20 ¹¹ 9	4 ¹¹ 1	23 ¹¹ 18	25 ²¹ 26	21 ¹¹ 0	11 ¹¹ 7	11 ¹¹ 59	13 ¹¹ 40	27 ¹¹ 48	7 ¹¹ 14	F 9
S 10	9 18 42	21 ¹¹ 027	26 ¹¹ 17	4 ¹² 8	8 ²⁷ 27	20 ¹¹ 55	4 ¹² 12	23 ¹¹ 13	25 ²¹ 28	21 ¹¹ 2	11 ¹¹ 7	11 ¹¹ 51	13 ¹¹ 37	27 ¹¹ 55	7 ¹¹ 12	S 10
S 11	9 22 39	22 ¹¹ 104	11 ¹¹ 31	3 ⁵⁰ 9	9 ⁴² 21	21 ¹¹ 42	4 ²⁴ 23	23 ¹¹ 9	25 ²¹ 31	21 ¹¹ 3	11 ¹¹ 7	11 ¹¹ 46	13 ¹¹ 34	28 ¹¹ 1	7 ¹¹ 10	S 11
M 12	9 26 35	23 ¹¹ 139	26 ¹¹ 32	3 ¹⁷ 10	10 ⁵⁷ 22	22 ¹¹ 28	4 ³⁵ 23	23 ¹¹ 6	25 ²¹ 33	21 ¹¹ 4	11 ¹¹ 6	11 ¹¹ 43	13 ¹¹ 30	28 ¹¹ 8	7 ¹¹ 7	M 12
T 13	9 30 32	24 ¹¹ 213	11 ¹¹ Y12	2 ³⁶ 12	12 ¹¹ 11	23 ¹¹ 14	4 ⁴⁶ 23	23 ¹¹ 2	25 ²¹ 35	21 ¹¹ 6	11 ¹¹ 6	11 ¹¹ D42	13 ¹¹ 27	28 ¹¹ 15	7 ¹¹ 5	T 13
W 14	9 34 28	25 ¹¹ 245	25 ¹¹ 26	1 ⁴⁶ 13	13 ²⁶ 24	24 ¹¹ 0	4 ⁵⁷ 22	22 ¹¹ 58	25 ²¹ 38	21 ¹¹ 7	11 ¹¹ 6	11 ¹¹ 42	13 ¹¹ 24	28 ¹¹ 21	7 ¹¹ 2	W 14
T 15	9 38 25	26 ¹¹ 315	9 ¹¹ 14	0 ⁵⁰ 14	14 ⁴¹ 24	24 ¹¹ 46	5 ⁸ 22	22 ¹¹ 54	25 ²¹ 40	21 ¹¹ 8	11 ¹¹ 6	11 ¹¹ 44	13 ¹¹ 21	28 ¹¹ 28	6 ¹¹ 59	T 15
F 16	9 42 21	27 ¹¹ 343	22 ¹¹ 35	29 ¹¹ 50	15 ⁵⁶ 25	25 ¹¹ 32	5 ¹⁹ 22	22 ¹¹ 50	25 ²¹ 42	21 ¹¹ 9	11 ¹¹ 5	11 ¹¹ R45	13 ¹¹ 18	28 ¹¹ 35	6 ¹¹ 56	F 16
S 17	9 46 18	28 ¹¹ 409	5 ¹¹ 34	28 ¹¹ 45	17 ¹¹ 10	26 ¹¹ 18	5 ³⁰ 22	22 ¹¹ 47	25 ²¹ 44	21 ¹¹ 10	11 ¹¹ 5	11 ¹¹ 44	13 ¹¹ 15	28 ¹¹ 41	6 ¹¹ 54	S 17
S 18	9 50 14	29 ¹¹ 433	18 ¹¹ 14	27 ¹¹ 39	18 ²⁵ 27	27 ¹¹ 4	5 ⁴¹ 22	22 ¹¹ 43	25 ²¹ 46	21 ¹¹ 12	11 ¹¹ 5	11 ¹¹ 42	13 ¹¹ 11	28 ¹¹ 48	6 ¹¹ 51	S 18
M 19	9 54 11	0 ¹¹ 456	0 ¹¹ 37	26 ¹¹ 33	19 ³⁹ 27	27 ¹¹ 50	5 ⁵² 22	22 ¹¹ 40	25 ²¹ 48	21 ¹¹ 13	11 ¹¹ 5	11 ¹¹ 38	13 ¹¹ 8	28 ¹¹ 55	6 ¹¹ 47	M 19
T 20	9 58 8	1 ¹¹ 516	12 ¹¹ 49	25 ¹¹ 29	20 ¹¹ 54	28 ¹¹ 36	6 ² 22	22 ¹¹ 37	25 ²¹ 50	21 ¹¹ 14	11 ¹¹ 5	11 ¹¹ 33	13 ¹¹ 5	29 ¹¹ 2	6 ¹¹ 44	T 20
W 21	10 2 4	2 ¹¹ 535	24 ¹¹ 52	24 ¹¹ 27	22 ¹¹ 8	29 ¹¹ 22	6 ¹³ 22	22 ¹¹ 33	25 ²¹ 52	21 ¹¹ 15	11 ¹¹ 5	11 ¹¹ 26	13 ¹¹ 2	29 ¹¹ 8	6 ¹¹ 41	W 21
T 22	10 6 1	3 ¹¹ 552	6 ¹¹ Ω49	23 ¹¹ 30	23 ¹¹ 23	0 ¹¹ Y 8	6 ²³ 22	22 ¹¹ 30	25 ²¹ 54	21 ¹¹ 16	11 ¹¹ 5	11 ¹¹ 18	12 ¹¹ 59	29 ¹¹ 15	6 ¹¹ 38	T 22
F 23	10 9 57	4 ¹¹ 606	18 ¹¹ 41	22 ¹¹ 38	24 ¹¹ 37	0 ¹¹ 54	6 ³³ 22	22 ¹¹ 27	25 ²¹ 56	21 ¹¹ 17	11 ¹¹ 5	11 ¹¹ 11	12 ¹¹ 55	29 ¹¹ 22	6 ¹¹ 34	F 23
S 24	10 13 54	5 ¹¹ 619	0 ¹¹ Y31	21 ¹¹ 52	25 ¹¹ 52	1 ¹¹ 40	6 ⁴⁴ 22	22 ¹¹ 24	25 ²¹ 58	21 ¹¹ 18	11 ¹¹ D 5	11 ¹¹ 5	12 ¹¹ 52	29 ¹¹ 28	6 ¹¹ 31	S 24
S 25	10 17 50	6 ¹¹ 630	12 ¹¹ 21	21 ¹¹ 12	27 ¹¹ 6	2 ²⁵ 27	6 ⁵⁴ 22	22 ¹¹ 21	26 ¹¹ 0	21 ¹¹ 19	11 ¹¹ 5	11 ¹¹ 0	12 ¹¹ 49	29 ¹¹ 35	6 ¹¹ 27	S 25
M 26	10 21 47	7 ¹¹ 639	24 ¹¹ 13	20 ¹¹ 39	28 ¹¹ 20	3 ¹¹ 11	7 ⁴ 22	22 ¹¹ 18	26 ¹¹ 1	21 ¹¹ 19	11 ¹¹ 5	10 ¹¹ 56	12 ¹¹ 46	29 ¹¹ 42	6 ¹¹ 23	M 26
T 27	10 25 43	8 ¹¹ 647	6 ¹¹ Ω 8	20 ¹¹ 14	29 ¹¹ 35	3 ⁵⁷ 7	7 ¹³ 22	22 ¹¹ 16	26 ¹¹ 3	21 ¹¹ 20	11 ¹¹ 5	10 ¹¹ D55	12 ¹¹ 43	29 ¹¹ 48	6 ¹¹ 20	T 27
W 28	10 29 40	9 ¹¹ 652	18 ¹¹ 8	19 ¹¹ 55	0 ¹¹ Y49	4 ⁴² 7	7 ²³ 22	22 ¹¹ 13	26 ¹¹ 5	21 ¹¹ 21	11 ¹¹ 5	10 ¹¹ 55	12 ¹¹ 40	29 ¹¹ 55	6 ¹¹ 16	W 28
T 29	10 33 37	10 ¹¹ 656	0 ¹¹ Y18	19 ¹¹ 43	2 ¹¹ Y 3	5 ¹¹ Y28	7 ²³ 22	22 ¹¹ 11	26 ¹¹ 6	21 ¹¹ 22	11 ¹¹ II 5	10 ¹¹ Y56	12 ¹¹ Y36	0 ¹¹ Y 2	6 ¹¹ Ω12	T 29

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	17s15	8s59	0s46	11s 9	0n20	13s53	1s30	7s 3	0s48	23s14	0n14	21n37	0n15	23s32	0s 8	21s51	1n19	12n30	9s45	4n58	5n34	16n 7	5s52	3s10						
F 2	16 58	14 25	1 50	10 33	0 35	13 27	1 30	6 45	0 47	23 14	0 14	21 38	0 15	23 32	0 8	21 51	1 20	12 30	9 44	4 58	5 33	16 4	5 52	3 10						
S 3	16 41	19 23	2 50	9 58	0 51	13 0	1 30	6 26	0 47	23 14	0 14	21 39	0 15	23 32	0 8	21 51	1 20	12 31	9 44	4 58	5 32	16 1	5 51	3 10						
S 4	16 23	23 37	3 43	9 26	1 7	12 33	1 30	6 8	0 46	23 14	0 13	21 40	0 15	23 32	0 8	21 51	1 20	12 31	9 44	4 58	5 30	15 58	5 50	3 10						
M 5	16 5	26 44	4 25	8 57	1 23	12 6	1 30	5 49	0 45	23 13	0 13	21 41	0 15	23 33	0 8	21 51	1 20	12 31	9 44	4 56	5 29	15 55	5 50	3 10						
T 6	15 47	28 21	4 54	8 31	1 40	11 39	1 29	5 30	0 45	23 13	0 13	21 42	0 16	23 33	0 8	21 51	1 20	12 31	9 44	4 54	5 28	15 52	5 49	3 10						
W 7	15 28	28 7	5 6	8 9	1 56	11 11	1 29	5 11	0 44	23 13	0 13	21 42	0 16	23 33	0 8	21 51	1 20	12 31	9 43	4 51	5 27	15 50	5 48	3 10						
T 8	15 10	25 54	4 57	7 51	2 12	10 43	1 28	4 52	0 43	23 13	0 13	21 43	0 16	23 33	0 8	21 51	1 20	12 32	9 43	4 48	5 25	15 47	5 47	3 10						
F 9	14 51	21 48	4 28	7 37	2 28	10 14	1 28	4 34	0 43	23 12	0 13	21 44	0 16	23 33	0 8	21 51	1 20	12 32	9 43	4 45	5 24	15 44	5 47	3 10						
S 10	14 31	16 13	3 39	7 27	2 43	9 46	1 27	4 15	0 42	23 12	0 13	21 45	0 16	23 33	0 8	21 51	1 20	12 32	9 43	4 42	5 23	15 41	5 46	3 10						
S 11	14 12	9 39	2 35	7 23	2 57	9 17	1 26	3 56	0 41	23 12	0 13	21 46	0 16	23 33	0 8	21 51	1 20	12 32	9 42	4 40	5 22	15 38	5 45	3 9						
M 12	13 52	2 37	1 21	7 23	3 9	8 48	1 26	3 37	0 40	23 12	0 13	21 46	0 16	23 33	0 9	21 52	1 20	12 32	9 42	4 38	5 20	15 35	5 44	3 9						
T 13	13 32	4n24	0 3	7 27	3 20	8 18	1 25	3 18	0 40	23 11	0 13	21 47	0 16	23 33	0 9	21 52	1 20	12 33	9 42	4 38	5 19	15 32	5 43	3 9						
W 14	13 12	11 0	1n14	7 36	3 30	7 49	1 24	2 59	0 39	23 11	0 13	21 48	0 16	23 33	0 9	21 52	1 20	12 33	9 42	4 38	5 18	15 29	5 42	3 9						
T 15	12 52	16 51	2 23	7 49	3 37	7 19	1 23	2 40	0 38	23 11	0 13	21 48	0 16	23 33	0 9	21 52	1 20	12 33	9 41	4 39	5 17	15 26	5 40	3 9						
F 16	12 31	21 43	3 23	8 6	3 42	6 49	1 22	2 21	0 38	23 10	0 13	21 49	0 16	23 34	0 9	21 52	1 20	12 33	9 41	4 39	5 16	15 23	5 39	3 9						
S 17	12 10	25 23	4 10	8 25	3 44	6 19	1 21	2 2	0 37	23 10	0 12	21 50	0 17	23 34	0 9	21 52	1 20	12 33	9 41	4 39	5 14	15 20	5 38	3 9						
S 18	11 49	27 41	4 44	8 48	3 45	5 49	1 19	1 43	0 36	23 9	0 12	21 50	0 17	23 34	0 9	21 52	1 20	12 34	9 41	4 38	5 13	15 17	5 37	3 9						
M 19	11 28	28 33	5 4	9 12	3 43	5 18	1 18	1 24	0 36	23 9	0 12	21 51	0 17	23 34	0 9	21 52	1 20	12 34	9 40	4 37	5 12	15 14	5 35	3 9						
T 20	11 7	28 0	5 9	9 37	3 39	4 47	1 17	1 5	0 35	23 9	0 12	21 52	0 17	23 34	0 9	21 52	1 20	12 34	9 40	4 35	5 11	15 11	5 34	3 9						
W 21	10 45	26 8	5 1	10 3	3 33	4 17	1 15	0 47	0 34	23 8	0 12	21 52	0 17	23 34	0 9	21 52	1 20	12 34	9 40	4 32	5 9	15 8	5 33	3 9						
T 22	10 23	23 7	4 40	10 29	3 25	3 46	1 14	0 28	0 34	23 8	0 12	21 53	0 17	23 34	0 9	21 52	1 20	12 35	9 40	4 29	5 8	15 6	5 31	3 9						
F 23	10 1	19 9	4 6	10 55	3 16	3 15	1 13	0 9	0 33	23 7	0 12	21 54	0 17	23 34	0 9	21 52	1 20	12 35	9 39	4 26	5 7	15 3	5 30	3 8						
S 24	9 39	14 28	3 22	11 19	3 5	2 44	1 11	0n10	0 32	23 7	0 12	21 54	0 17	23 34	0 9	21 52	1 20	12 35	9 39	4 23	5 6	15 0	5 28	3 8						
S 25	9 17	9 14	2 29	11 43	2 54	2 13	1 9	0 29	0 32	23 7	0 12	21 55	0 17	23 34	0 9	21 52	1 20	12 35	9 39	4 22	5 4	14 57	5 27	3 8						
M 26	8 55	3 41	1 30	12 5	2 41	1 42	1 8	0 48	0 31	23 6	0 12	21 55	0 17	23 34	0 9	21 52	1 20	12 36	9 39	4 20	5 3	14 54	5 25	3 8						
T 27	8 33	2s 2	0 26	12 26	2 28	1 1	6 1	7	0 30	23 6	0 12	21 56	0 17	23 34	0 9	21 52	1 20	12 36	9 38	4 20	5 2	14 51	5 24	3 8						
W 28	8 10	7 44	0s39	12 45	2 15	0 39	1 4	1 25	0 29	23 5	0 12	21 56	0 17	23 34	0 9	21 52	1 20	12 36	9 38	4 20	5 1	14 48	5 22	3 8						
T 29	7s47	13s14	1s44	13s 1	2n 1	0s 8	1s 2	1n44	0s29	23s 5	0n12	21n57	0n18	23s35	0s 9	21s52	1n20	12n36	9s38	4n20	4n59	14n45	5s20	3s 8						

ASTRODIENST EPHEMERIS for the year 1652
geocentric

MARCH 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 37 33	11♈ 6°59	12♌40	19°D37	3♊17	6♊13	7♌42	22°R 8	26♌ 8	21♌23	11♌ 5	10♊58	12♊33	0♈ 8	6°R 8	F 1
S 2	10 41 30	12° 6'59	25°18	19♌39	4°31	6°59	7°52	22♌ 6	26° 9	21°23	11° 5	11° 0	12°30	0°15	6♌ 4	S 2
S 3	10 45 26	13° 6'58	8♌16	19°46	5°46	7°44	8° 1	22° 4	26°11	21°24	11° 5	11°R 1	12°27	0°22	6° 0	S 3
M 4	10 49 23	14° 6'56	21°37	19°59	7° 0	8°29	8°10	22° 2	26°12	21°25	11° 6	11° 1	12°24	0°28	5°56	M 4
T 5	10 53 19	15° 6'52	5♌24	20°18	8°14	9°15	8°19	22° 0	26°14	21°25	11° 6	10°59	12°21	0°35	5°52	T 5
W 6	10 57 16	16° 6'46	19°37	20°42	9°28	10° 0	8°28	21°58	26°15	21°26	11° 6	10°57	12°17	0°42	5°47	W 6
T 7	11 1 12	17° 6'39	4♌14	21°10	10°42	10°45	8°37	21°56	26°16	21°27	11° 6	10°54	12°14	0°48	5°43	T 7
F 8	11 5 9	18° 6'30	19°11	21°44	11°56	11°31	8°46	21°54	26°17	21°27	11° 7	10°50	12°11	0°55	5°39	F 8
S 9	11 9 6	19° 6'19	4♌20	22°21	13°10	12°16	8°54	21°53	26°19	21°28	11° 7	10°48	12° 8	1° 2	5°34	S 9
S 10	11 13 2	20° 6'06	19°31	23° 3	14°23	13° 1	9° 3	21°51	26°20	21°28	11° 7	10°46	12° 5	1° 8	5°30	S 10
M 11	11 16 59	21° 5'51	4♊35	23°48	15°37	13°46	9°11	21°50	26°21	21°28	11° 8	10°D45	12° 1	1°15	5°25	M 11
T 12	11 20 55	22° 5'33	19°23	24°37	16°51	14°31	9°19	21°49	26°22	21°29	11° 8	10°45	11°58	1°22	5°21	T 12
W 13	11 24 52	23° 5'14	3♌48	25°29	18° 5	15°16	9°27	21°47	26°23	21°29	11° 8	10°46	11°55	1°28	5°16	W 13
T 14	11 28 48	24° 4'53	17°48	26°24	19°18	16° 1	9°35	21°46	26°24	21°30	11° 9	10°47	11°52	1°35	5°11	T 14
F 15	11 32 45	25° 4'29	1♌20	27°22	20°32	16°46	9°43	21°45	26°24	21°30	11° 9	10°48	11°49	1°42	5° 7	F 15
S 16	11 36 41	26° 4'03	14°26	28°23	21°46	17°31	9°51	21°45	26°25	21°30	11°10	10°49	11°46	1°49	5° 2	S 16
S 17	11 40 38	27° 3'35	27°10	29°26	22°59	18°16	9°58	21°44	26°26	21°30	11°10	10°R49	11°42	1°55	4°57	S 17
M 18	11 44 35	28° 3'04	9♌34	0♈32	24°13	19° 0	10° 5	21°43	26°27	21°30	11°11	10°49	11°39	2° 2	4°53	M 18
T 19	11 48 31	29° 2'31	21°44	1°40	25°26	19°45	10°13	21°43	26°27	21°31	11°11	10°48	11°36	2° 9	4°48	T 19
W 20	11 52 28	0♊ 1'56	3♌43	2°50	26°40	20°30	10°20	21°42	26°28	21°31	11°12	10°47	11°33	2°15	4°43	W 20
T 21	11 56 24	1° 1'18	15°35	4° 2	27°53	21°14	10°27	21°42	26°29	21°31	11°12	10°45	11°30	2°22	4°38	T 21
F 22	12 0 21	2° 0'38	27°25	5°17	29° 6	21°59	10°33	21°42	26°29	21°31	11°13	10°44	11°26	2°29	4°34	F 22
S 23	12 4 17	2°59'56	9♈14	6°33	0♌19	22°43	10°40	21°D42	26°29	21°R31	11°13	10°43	11°23	2°35	4°29	S 23
S 24	12 8 14	3°59'12	21° 6	7°52	1°33	23°28	10°47	21°42	26°30	21°31	11°14	10°42	11°20	2°42	4°24	S 24
M 25	12 12 10	4°58'25	3♌ 3	9°12	2°46	24°12	10°53	21°42	26°30	21°31	11°15	10°42	11°17	2°49	4°19	M 25
T 26	12 16 7	5°57'37	15° 8	10°34	3°59	24°57	10°59	21°43	26°30	21°31	11°15	10°D42	11°14	2°55	4°14	T 26
W 27	12 20 4	6°56'46	27°20	11°57	5°12	25°41	11° 5	21°43	26°31	21°31	11°16	10°42	11°11	3° 2	4°10	W 27
T 28	12 24 0	7°55'54	9♌44	13°23	6°25	26°25	11°11	21°43	26°31	21°31	11°17	10°42	11° 7	3° 9	4° 5	T 28
F 29	12 27 57	8°55'00	22°20	14°49	7°38	27°10	11°17	21°44	26°31	21°30	11°17	10°42	11° 4	3°15	4° 0	F 29
S 30	12 31 53	9°54'04	5♌ 9	16°18	8°51	27°54	11°22	21°45	26°31	21°30	11°18	10°43	11° 1	3°22	3°55	S 30
S 31	12 35 50	10♊53'06	18♌15	17♈48	10♌ 3	28♊38	11♌27	21♌46	26°R31	21♌30	11♌19	10°R43	10♊58	3♈29	3♌50	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	7s25 18s18	2s45 13s16	1n47 0n23	1s 0 2n 3	0s28 23s 4	0n12 21n57	0n18 23s35	0s 9 21s52	1n20 12n37	9s38 4n21	4n58 14n42	5s18 3s 7				
S 2	7 2 22 41	3 40 13 29	1 33 0 55	0 58 2 21	0 27 23 4	0 11 21 58	0 18 23 35	0 9 21 52	1 20 12 37	9 37 4 22	4 57 14 39	5 17 3 7				
S 3	6 39 26 5	4 25 13 40	1 19 1 26	0 56 2 40	0 27 23 3	0 11 21 58	0 18 23 35	0 9 21 52	1 21 12 37	9 37 4 22	4 56 14 36	5 15 3 7				
M 4	6 16 28 9	4 57 13 49	1 5 1 57	0 54 2 59	0 26 23 3	0 11 21 59	0 18 23 35	0 9 21 52	1 21 12 38	9 37 4 22	4 54 14 33	5 13 3 7				
T 5	5 53 28 35	5 13 13 56	0 52 2 28	0 52 3 17	0 25 23 2	0 11 21 59	0 18 23 35	0 9 21 52	1 21 12 38	9 37 4 21	4 53 14 30	5 11 3 7				
W 6	5 29 27 10	5 11 14 1	0 39 2 59	0 50 3 36	0 25 23 2	0 11 21 59	0 18 23 35	0 9 21 52	1 21 12 38	9 36 4 20	4 52 14 27	5 9 3 6				
T 7	5 6 23 54	4 49 14 4	0 26 3 31	0 48 3 54	0 24 23 1	0 11 22 0	0 18 23 35	0 9 21 52	1 21 12 38	9 36 4 19	4 51 14 24	5 7 3 6				
F 8	4 43 19 0	4 7 14 5	0 16 4 2	0 46 4 12	0 23 23 1	0 11 22 0	0 18 23 35	0 9 21 52	1 21 12 39	9 36 4 18	4 49 14 21	5 5 3 6				
S 9	4 19 12 51	3 7 14 4	0 2 4 33	0 43 4 31	0 22 23 0	0 11 22 0	0 18 23 35	0 9 21 52	1 21 12 39	9 36 4 17	4 48 14 18	5 3 3 6				
S 10	3 56 5 55	1 54 14 1	0s10 5 3	0 41 4 49	0 22 23 0	0 11 22 1	0 18 23 35	0 9 21 52	1 21 12 39	9 35 4 16	4 47 14 15	5 1 3 6				
M 11	3 32 1n18	0 34 13 57	0 21 5 34	0 38 5 7	0 21 22 59	0 11 22 1	0 18 23 35	0 9 21 52	1 21 12 40	9 35 4 16	4 46 14 12	4 59 3 5				
T 12	3 9 8 20	0n48 13 51	0 32 6 5	0 36 5 25	0 20 22 59	0 11 22 1	0 18 23 35	0 9 21 52	1 21 12 40	9 35 4 16	4 45 14 9	4 57 3 5				
W 13	2 45 14 45	2 4 13 43	0 42 6 35	0 33 5 43	0 20 22 58	0 11 22 1	0 19 23 35	0 9 21 52	1 21 12 40	9 35 4 16	4 43 14 6	4 55 3 5				
T 14	2 21 20 13	3 11 13 33	0 52 7 6	0 31 6 1	0 19 22 58	0 11 22 2	0 19 23 35	0 9 21 52	1 21 12 40	9 34 4 17	4 42 14 2	4 53 3 5				
F 15	1 58 24 27	4 5 13 22	1 1 7 36	0 28 6 19	0 18 22 57	0 10 22 2	0 19 23 35	0 9 21 52	1 21 12 41	9 34 4 17	4 41 13 59	4 51 3 4				
S 16	1 34 27 16	4 44 13 10	1 10 8 6	0 26 6 37	0 18 22 57	0 10 22 2	0 19 23 35	0 9 21 52	1 21 12 41	9 34 4 17	4 40 13 56	4 49 3 4				
S 17	1 10 28 35	5 8 12 55	1 19 8 36	0 23 6 55	0 17 22 56	0 10 22 2	0 19 23 35	0 9 21 52	1 21 12 41	9 34 4 17	4 38 13 53	4 47 3 4				
M 18	0 47 28 24	5 16 12 39	1 27 9 5	0 20 7 12	0 16 22 56	0 10 22 2	0 19 23 35	0 9 21 52	1 21 12 42	9 33 4 17	4 37 13 50	4 45 3 3				
T 19	0 23 26 50	5 11 12 22	1 34 9 35	0 18 7 30	0 16 22 56	0 10 22 3	0 19 23 35	0 9 21 52	1 21 12 42	9 33 4 17	4 36 13 47	4 43 3 3				
W 20	0n 1 24 5	4 52 12 3	1 41 10 4	0 15 7 48	0 15 22 55	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 42	9 33 4 16	4 35 13 44	4 40 3 3				
T 21	0 24 20 20	4 20 11 43	1 47 10 33	0 12 8 5	0 14 22 55	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 43	9 33 4 16	4 33 13 41	4 38 3 2				
F 22	0 48 15 48	3 38 11 21	1 53 11 2	0 9 8 22	0 14 22 54	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 43	9 32 4 15	4 32 13 38	4 36 3 2				
S 23	1 12 10 41	2 46 10 58	1 59 11 30	0 7 8 39	0 13 22 54	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 43	9 32 4 15	4 31 13 35	4 34 3 2				
S 24	1 35 5 10	1 47 10 33	2 4 11 59	0 4 8 57	0 12 22 53	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 43	9 32 4 15	4 30 13 32	4 31 3 1				
M 25	1 59 0s34	0 42 10 7	2 9 12 26	0 1 9 14	0 11 22 53	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 44	9 32 4 14	4 28 13 29	4 29 3 1				
T 26	2 22 6 21	0s25 9 40	2 13 12 54	0n 2 9 31	0 11 22 52	0 10 22 3	0 19 23 36	0 9 21 52	1 21 12 44	9 32 4 14	4 27 13 26	4 27 3 1				
W 27	2 46 11 58	1 31 9 12	2 16 13 21	0 5 9 47	0 10 22 52	0 9 22 3	0 19 23 36	0 9 21 52	1 21 12 44	9 31 4 15	4 26 13 23	4 25 3 0				
T 28	3 9 17 12	2 34 8 42	2 20 13 48	0 8 10 4	0 9 22 52	0 9 22 3	0 20 23 36	0 9 21 52	1 21 12 45	9 31 4 15	4 25 13 20	4 22 3 0				
F 29	3 32 21 47	3 31 8 10	2 22 14 15	0 11 10 21	0 9 22 51	0 9 22 3	0 20 23 36	0 9 21 52	1 22 12 45	9 31 4 15	4 23 13 17	4 20 3 0				
S 30	3 56 25 26	4 19 7 38	2 24 14 42	0 14 10 37	0 8 22 51	0 9 22 3	0 20 23 36	0 9 21 51	1 22 12 45	9 31 4 15	4 22 13 13	4 18 2 59				
S 31	4n19 27s50	4s53 7s 4	2s26 15n 8	0n17 10n54	0s 7 22s50	0n 9 22n 3	0n20 23s36	0s 9 21s51	1n22 12n46	9s30 4n15	4n21 13n10	4s16 2s59				

Julian Day Number = 2324500.5, Delta T = 41.80 sec
Ecliptic obliquity = 23°29'14, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'07, Lahiri = 19°00'07Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1652
geocentric

APRIL 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 39 46	11°52'06	1°38	19°20	11°16	29°22	11°33	21°47	26°R31	21°R30	11°20	10°R43	10°Y55	3°M35	3°R46	M 1
T 2	12 43 43	12°51'05	15°20	20°53	12°29	0°6	11°38	21°48	26°R31	21°R29	11°20	10°D42	10°52	3°42	3°41	T 2
W 3	12 47 39	13°50'02	29°22	22°28	13°42	0°50	11°43	21°49	26°31	21°29	11°21	10°Y43	10°48	3°49	3°36	W 3
T 4	12 51 36	14°48'57	13°41	24°4	14°54	1°34	11°47	21°50	26°31	21°29	11°22	10°43	10°45	3°55	3°32	T 4
F 5	12 55 33	15°47'50	28°17	25°42	16°7	2°18	11°52	21°51	26°30	21°28	11°23	10°43	10°42	4°2	3°27	F 5
S 6	12 59 29	16°46'41	13°3	27°22	17°19	3°2	11°56	21°53	26°30	21°28	11°24	10°44	10°39	4°9	3°22	S 6
S 7	13 3 26	17°45'31	27°54	29°3	18°32	3°45	12°0	21°55	26°30	21°27	11°25	10°44	10°36	4°15	3°18	S 7
M 8	13 7 22	18°44'19	12°44	0°46	19°44	4°29	12°4	21°56	26°29	21°27	11°25	10°R44	10°32	4°22	3°13	M 8
T 9	13 11 19	19°43'05	27°23	2°30	20°56	5°13	12°8	21°58	26°29	21°26	11°26	10°44	10°29	4°29	3°9	T 9
W10	13 15 15	20°41'48	11°47	4°15	22°9	5°57	12°12	22°0	26°28	21°26	11°27	10°43	10°26	4°35	3°4	W10
T 11	13 19 12	21°40'30	25°48	6°3	23°21	6°40	12°16	22°2	26°28	21°25	11°28	10°42	10°23	4°42	3°0	T 11
F 12	13 23 8	22°39'10	9°26	7°52	24°33	7°24	12°19	22°4	26°27	21°25	11°29	10°41	10°20	4°49	2°56	F 12
S 13	13 27 5	23°37'47	22°38	9°42	25°45	8°7	12°22	22°6	26°27	21°24	11°30	10°39	10°17	4°55	2°51	S 13
S 14	13 31 2	24°36'23	5°27	11°34	26°57	8°51	12°25	22°9	26°26	21°23	11°31	10°38	10°13	5°2	2°47	S 14
M15	13 34 58	25°34'56	17°56	13°28	28°9	9°34	12°28	22°11	26°25	21°22	11°32	10°37	10°10	5°9	2°43	M15
T 16	13 38 55	26°33'27	0°7	15°23	29°21	10°17	12°30	22°14	26°24	21°22	11°33	10°D37	10°7	5°15	2°39	T 16
W17	13 42 51	27°31'55	12°7	17°20	0°33	11°1	12°33	22°16	26°24	21°21	11°34	10°37	10°4	5°22	2°35	W17
T 18	13 46 48	28°30'22	23°59	19°18	1°44	11°44	12°35	22°19	26°23	21°20	11°35	10°39	10°1	5°29	2°31	T 18
F 19	13 50 44	29°28'46	5°48	21°18	2°56	12°27	12°37	22°22	26°22	21°19	11°36	10°40	9°58	5°35	2°27	F 19
S 20	13 54 41	0°27'09	17°38	23°20	4°8	13°10	12°39	22°25	26°21	21°19	11°37	10°42	9°54	5°42	2°23	S 20
S 21	13 58 37	1°25'29	29°34	25°23	5°19	13°53	12°41	22°28	26°20	21°18	11°39	10°43	9°51	5°49	2°19	S 21
M22	14 2 34	2°23'47	11°38	27°27	6°30	14°36	12°42	22°31	26°19	21°17	11°40	10°R43	9°48	5°55	2°16	M22
T 23	14 6 30	3°22'03	23°54	29°32	7°42	15°19	12°43	22°34	26°18	21°16	11°41	10°42	9°45	6°2	2°12	T 23
W24	14 10 27	4°20'18	6°22	1°39	8°53	16°2	12°44	22°38	26°16	21°15	11°42	10°41	9°42	6°9	2°8	W24
T 25	14 14 24	5°18'31	19°4	3°47	10°4	16°45	12°45	22°41	26°15	21°14	11°43	10°38	9°38	6°15	2°5	T 25
F 26	14 18 20	6°16'42	2°0	5°55	11°15	17°28	12°46	22°44	26°14	21°13	11°44	10°34	9°35	6°22	2°2	F 26
S 27	14 22 17	7°14'51	15°11	8°5	12°26	18°11	12°47	22°48	26°13	21°12	11°45	10°30	9°32	6°29	1°58	S 27
S 28	14 26 13	8°12'59	28°35	10°14	13°37	18°54	12°47	22°52	26°11	21°11	11°47	10°26	9°29	6°35	1°55	S 28
M29	14 30 10	9°11'06	12°31	12°24	14°48	19°36	12°R47	22°56	26°10	21°10	11°48	10°23	9°26	6°42	1°52	M29
T 30	14 34 6	10°9'11	25°59	14°34	15°59	20°19	12°347	22°59	26°9	21°9	11°49	10°Y21	9°Y23	6°49	1°49	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	4n42	28s42	5s14	6s29	2s27	15n33	0n20	11n10	0s 7	22s50	0n 9	22n 3	0n20	23s36	0s 9	21s51	1n22	12n46	9s30	4n15	4n20	13n 7	4s13	2s58			
T 2	5 5	27 50	5 16	5 53	2 28	15 58	0 23	11 26	0 6	22 50	0 9	22 3	0 20	23 36	0 9	21 51	1 22	12 46	9 30	4 15	4 18	13 4	4 11	2 58			
W 3	5 28	25 14	5 1	5 16	2 28	16 23	0 26	11 42	0 5	22 49	0 9	22 3	0 20	23 36	0 9	21 51	1 22	12 47	9 30	4 15	4 17	13 1	4 9	2 57			
T 4	5 51	21 0	4 27	4 37	2 28	16 48	0 29	11 58	0 5	22 49	0 9	22 2	0 20	23 36	0 9	21 51	1 22	12 47	9 30	4 15	4 16	12 58	4 7	2 57			
F 5	6 14	15 27	3 35	3 57	2 27	17 12	0 32	12 14	0 4	22 49	0 9	22 2	0 20	23 36	0 9	21 51	1 22	12 47	9 29	4 15	4 15	12 55	4 4	2 57			
S 6	6 36	8 57	2 28	3 16	2 26	17 35	0 35	12 30	0 3	22 48	0 9	22 2	0 20	23 36	0 9	21 51	1 22	12 48	9 29	4 15	4 13	12 52	4 2	2 56			
S 7	6 59	1 55	1 11	2 35	2 24	17 59	0 38	12 45	0 3	22 48	0 8	22 2	0 20	23 36	0 9	21 51	1 22	12 48	9 29	4 15	4 12	12 49	4 0	2 56			
M 8	7 21	5n12	0n11	1 51	2 21	18 21	0 41	13 1	0 2	22 48	0 8	22 2	0 20	23 36	0 9	21 51	1 22	12 48	9 29	4 16	4 11	12 46	3 58	2 55			
T 9	7 44	11 59	1 31	1 7	2 18	18 44	0 44	13 16	0 1	22 48	0 8	22 1	0 20	23 36	0 9	21 51	1 22	12 49	9 28	4 15	4 10	12 42	3 56	2 55			
W10	8 6	18 0	2 44	0 22	2 15	19 5	0 47	13 31	0 1	22 47	0 8	22 1	0 20	23 36	0 9	21 51	1 22	12 49	9 28	4 15	4 8	12 39	3 53	2 54			
T 11	8 28	22 53	3 45	0n24	2 11	19 27	0 49	13 46	0 0	22 47	0 8	22 1	0 20	23 36	0 10	21 51	1 22	12 49	9 28	4 15	4 7	12 36	3 51	2 54			
F 12	8 50	26 22	4 31	1 11	2 7	19 48	0 52	14 1	0n 1	22 47	0 8	22 1	0 20	23 36	0 10	21 51	1 22	12 49	9 28	4 14	4 6	12 33	3 49	2 53			
S 13	9 12	28 17	5 1	1 59	2 2	20 8	0 55	14 16	0 1	22 47	0 8	22 0	0 20	23 36	0 10	21 51	1 22	12 50	9 28	4 13	4 5	12 30	3 47	2 53			
S 14	9 33	28 37	5 15	2 48	1 57	20 28	0 58	14 30	0 2	22 47	0 8	22 0	0 21	23 36	0 10	21 50	1 22	12 50	9 27	4 13	4 3	12 27	3 45	2 52			
M15	9 55	27 28	5 14	3 38	1 51	20 47	1 1	14 45	0 2	22 46	0 8	22 0	0 21	23 36	0 10	21 50	1 22	12 50	9 27	4 13	4 2	12 24	3 43	2 52			
T 16	10 16	25 1	4 58	4 28	1 44	21 6	1 4	14 59	0 3	22 46	0 8	21 59	0 21	23 36	0 10	21 50	1 22	12 51	9 27	4 13	4 1	12 20	3 41	2 51			
W17	10 37	21 31	4 30	5 19	1 37	21 24	1 7	15 13	0 4	22 46	0 8	21 59	0 21	23 36	0 10	21 50	1 22	12 51	9 27	4 13	4 0	12 17	3 38	2 51			
T 18	10 58	17 10	3 50	6 11	1 30	21 41	1 10	15 27	0 4	22 46	0 7	21 59	0 21	23 36	0 10	21 50	1 22	12 51	9 27	4 13	3 58	12 14	3 36	2 50			
F 19	11 19	12 13	3 1	7 3	1 22	21 58	1 13	15 41	0 5	22 46	0 7	21 58	0 21	23 36	0 10	21 50	1 22	12 52	9 27	4 14	3 57	12 11	3 34	2 50			
S 20	11 39	6 48	2 4	7 56	1 14	22 15	1 15	15 55	0 6	22 46	0 7	21 58	0 21	23 36	0 10	21 50	1 22	12 52	9 26	4 14	3 56	12 8	3 32	2 49			
S 21	12 0	1 6	1 1	8 49	1 5	22 31	1 18	16 8	0 6	22 46	0 7	21 57	0 21	23 36	0 10	21 50	1 22	12 52	9 26	4 15	3 55	12 5	3 30	2 49			
M22	12 20	4s41	0s 5	9 43	0 56	22 46	1 21	16 22	0 7	22 46	0 7	21 57	0 21	23 36	0 10	21 50	1 22	12 53	9 26	4 15	3 53	12 2	3 28	2 48			
T 23	12 40	10 24	1 12	10 36	0 47	23 1	1 23	16 35	0 8	22 46	0 7	21 56	0 21	23 36	0 10	21 50	1 22	12 53	9 26	4 15	3 52	11 58	3 26	2 48			
W24	12 59	15 49	2 17	11 30	0 37	23 15	1 26	16 48	0 8	22 46	0 7	21 56	0 21	23 36	0 10	21 50	1 22	12 53	9 26	4 14	3 51	11 55	3 24	2 47			
T 25	13 19	20 39	3 15	12 23	0 27	23 28	1 29	17 1	0 9	22 46	0 7	21 55	0 21	23 36	0 10	21 50	1 22	12 54	9 26	4 13	3 50	11 52	3 23	2 47			
F 26	13 38	24 37	4 5	13 16	0 17	23 41	1 31	17 14	0 9	22 46	0 7	21 55	0 21	23 36	0 10	21 49	1 22	12 54	9 25	4 12	3 48	11 49	3 21	2 46			
S 27	13 58	27 21	4 43	14 8	0 6	23 53	1 34	17 26	0 10	22 46	0 6	21 54	0 21	23 36	0 10	21 49	1 22	12 54	9 25	4 10	3 47	11 46	3 19	2 45			
S 28	14 16	28 35	5 6	14 59	0n 4	24 4	1 36	17 39	0 11	22 46	0 6	21 54	0 21	23 36	0 10	21 49	1 22	12 54	9 25	4 8	3 46	11 43	3 17	2 45			
M29	14 35	28 7	5 13	15 50	0 15	24 15	1 39	17 51	0 11	22 46	0 6	21 53	0 21	23 36	0 10	21 49	1 23	12 55	9 25	4 7	3 45	11 39	3 15	2 44			
T 30	14n53	25s56	5s 2	16n39	0n26	24n25	1n41	18n 3	0n12	22s46	0n 6	21n53	0n21	23s36	0s10	21s49	1n23	12n55	9s25	4n 6	3n43	11n36	3s14	2s44			

ASTRODIENST EPHEMERIS for the year 1652
geocentric

MAY 1652 GC

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Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	14 38 3	11° 8' 15"	9° 59' 59"	16° 43' 43"	17° 11' 10"	21° 8' 2	12° 47' 12"	23° 3' 23"	26° 7' 26"	21° 8' 21"	11° 50' 11"	10° 20' 10"	9° 19' 9"	6° 55' 6"	1° 46' 1"	W 1
T 2	14 42 0	12° 5' 17"	24° 8' 24"	18° 52' 18"	18° 20' 18"	21° 44' 21"	12° 47' 12"	23° 7' 23"	26° 6' 26"	21° 6' 21"	11° 51' 11"	10° 20' 10"	9° 16' 9"	7° 2' 7"	1° 43' 1"	T 2
F 3	14 45 56	13° 3' 18"	8° 25' 8"	21° 0' 21"	19° 31' 19"	22° 27' 22"	12° 46' 12"	23° 12' 23"	26° 4' 26"	21° 5' 21"	11° 53' 11"	10° 22' 10"	9° 13' 9"	7° 9' 7"	1° 40' 1"	F 3
S 4	14 49 53	14° 1' 18"	22° 48' 22"	23° 7' 23"	20° 41' 20"	23° 9' 23"	12° 45' 12"	23° 16' 23"	26° 3' 26"	21° 4' 21"	11° 54' 11"	10° 23' 10"	9° 10' 9"	7° 15' 7"	1° 38' 1"	S 4
S 5	14 53 49	14° 59' 16"	7° 13' 7"	25° 12' 25"	21° 52' 21"	23° 52' 23"	12° 44' 12"	23° 20' 23"	26° 1' 26"	21° 3' 21"	11° 55' 11"	10° 24' 10"	9° 7' 9"	7° 22' 7"	1° 35' 1"	S 5
M 6	14 57 46	15° 57' 13"	21° 38' 21"	27° 15' 27"	23° 2' 23"	24° 34' 24"	12° 43' 12"	23° 24' 23"	25° 59' 25"	21° 2' 21"	11° 56' 11"	10° 24' 10"	9° 3' 9"	7° 29' 7"	1° 32' 1"	M 6
T 7	15 1 42	16° 55' 08"	5° 56' 5"	29° 17' 29"	24° 12' 24"	25° 16' 25"	12° 42' 12"	23° 29' 23"	25° 58' 25"	21° 0' 21"	11° 58' 11"	10° 21' 10"	9° 0' 9"	7° 35' 7"	1° 30' 1"	T 7
W 8	15 5 39	17° 53' 02"	20° 2' 20"	1° 11' 16"	25° 22' 25"	25° 58' 25"	12° 40' 12"	23° 33' 23"	25° 56' 25"	20° 59' 20"	11° 59' 11"	10° 18' 10"	8° 57' 8"	7° 42' 7"	1° 28' 1"	W 8
T 9	15 9 35	18° 50' 55"	3° 13' 3"	26° 32' 26"	26° 41' 26"	12° 39' 12"	23° 38' 23"	25° 54' 25"	20° 58' 20"	12° 0' 12"	10° 12' 10"	8° 54' 8"	7° 49' 7"	1° 26' 1"	T 9	
F 10	15 13 32	19° 48' 46"	17° 25' 5'	27° 42' 27"	27° 23' 27"	12° 37' 12"	23° 43' 23"	25° 52' 25"	20° 56' 20"	12° 1' 12"	10° 6' 10"	8° 51' 8"	7° 55' 7"	1° 24' 1"	F 10	
S 11	15 17 29	20° 46' 36"	0° 36' 0"	6° 58' 28"	28° 52' 28"	12° 35' 12"	23° 48' 23"	25° 51' 25"	20° 55' 20"	12° 3' 12"	9° 59' 9"	8° 48' 8"	8° 2' 8"	1° 22' 1"	S 11	
S 12	15 21 25	21° 44' 24"	13° 25' 13"	8° 47' 10"	0° 52' 0"	28° 47' 28"	12° 33' 12"	23° 53' 23"	25° 49' 25"	20° 54' 20"	12° 4' 12"	9° 53' 9"	8° 44' 8"	8° 9' 8"	1° 20' 1"	S 12
M 13	15 25 22	22° 42' 10"	25° 55' 10"	10° 32' 10"	1° 11' 11"	29° 29' 29"	12° 30' 12"	23° 57' 23"	25° 47' 25"	20° 52' 20"	12° 5' 12"	9° 48' 9"	8° 41' 8"	8° 15' 15"	1° 18' 1"	M 13
T 14	15 29 18	23° 39' 54"	8° 8' 12"	12° 15' 12"	2° 21' 0"	0° 11' 11"	12° 27' 12"	24° 3' 24"	25° 45' 25"	20° 51' 20"	12° 7' 12"	9° 45' 9"	8° 38' 8"	8° 22' 22"	1° 16' 1"	T 14
W 15	15 33 15	24° 37' 37"	20° 8' 13"	13° 54' 33"	3° 30' 0"	0° 53' 0"	12° 25' 12"	24° 8' 24"	25° 43' 25"	20° 50' 20"	12° 8' 12"	9° 44' 9"	8° 35' 8"	8° 29' 29"	1° 15' 1"	W 15
T 16	15 37 11	25° 35' 19"	2° 11' 0"	15° 30' 43"	4° 39' 13"	1° 35' 12"	12° 22' 12"	24° 13' 24"	25° 41' 25"	20° 48' 20"	12° 9' 12"	9° 44' 9"	8° 32' 8"	8° 35' 35"	1° 13' 1"	T 16
F 17	15 41 8	26° 32' 58"	13° 50' 13"	17° 3' 54"	5° 49' 21"	2° 17' 12"	12° 18' 12"	24° 18' 24"	25° 39' 25"	20° 47' 20"	12° 11' 12"	9° 45' 9"	8° 29' 8"	8° 42' 42"	1° 12' 1"	F 17
S 18	15 45 4	27° 30' 37"	25° 41' 25"	18° 33' 18"	6° 58' 25"	2° 59' 12"	12° 15' 12"	24° 23' 24"	25° 37' 25"	20° 45' 20"	12° 12' 12"	9° 46' 9"	8° 25' 8"	8° 49' 49"	1° 11' 1"	S 18
S 19	15 49 1	28° 28' 13"	7° 24' 0"	19° 59' 19"	8° 7' 8"	3° 40' 12"	12° 12' 12"	24° 29' 24"	25° 35' 25"	20° 44' 20"	12° 13' 12"	9° 47' 9"	8° 22' 8"	8° 55' 55"	1° 9' 1"	S 19
M 20	15 52 58	29° 25' 48"	19° 51' 21"	21° 22' 21"	9° 15' 42"	4° 22' 12"	12° 8' 12"	24° 34' 24"	25° 33' 25"	20° 42' 20"	12° 15' 12"	9° 46' 9"	8° 19' 8"	9° 2' 2"	1° 8' 1"	M 20
T 21	15 56 54	0° 11' 23"	22° 41' 22"	10° 24' 10"	5° 4' 12"	12° 4' 12"	12° 4' 12"	24° 40' 24"	25° 31' 25"	20° 41' 20"	12° 16' 12"	9° 44' 9"	8° 16' 8"	9° 9' 9"	1° 8' 1"	T 21
W 22	16 0 51	1° 20' 55"	14° 59' 23"	23° 58' 11"	11° 33' 54"	5° 45' 12"	12° 0' 12"	24° 45' 24"	25° 29' 25"	20° 39' 20"	12° 18' 12"	9° 39' 9"	8° 13' 8"	9° 15' 15"	1° 7' 1"	W 22
T 23	16 4 47	2° 18' 26"	28° 1' 25"	10° 12' 12"	12° 41' 6"	6° 27' 11"	11° 56' 12"	24° 51' 24"	25° 26' 25"	20° 38' 20"	12° 19' 12"	9° 33' 9"	8° 9' 8"	9° 22' 22"	1° 6' 1"	T 23
F 24	16 8 44	3° 15' 57"	11° 20' 11"	26° 19' 13"	13° 49' 7"	7° 8' 11"	11° 52' 12"	24° 57' 24"	25° 24' 25"	20° 36' 20"	12° 20' 12"	9° 25' 9"	8° 6' 6"	9° 29' 29"	1° 6' 1"	F 24
S 25	16 12 40	4° 13' 26"	24° 55' 27"	27° 24' 14"	14° 57' 7"	7° 50' 11"	11° 47' 12"	25° 3' 25"	25° 22' 25"	20° 35' 20"	12° 22' 12"	9° 16' 8"	8° 3' 3"	9° 35' 35"	1° 5' 1"	S 25
S 26	16 16 37	5° 10' 54"	8° 34' 28"	28° 26' 16"	16° 5' 8"	8° 31' 11"	11° 42' 12"	25° 8' 25"	25° 20' 20"	20° 33' 20"	12° 23' 12"	9° 7' 7"	8° 0' 0"	9° 42' 42"	1° 5' 1"	S 26
M 27	16 20 33	6° 8' 22"	22° 43' 29"	29° 24' 17"	17° 13' 9"	9° 13' 11"	11° 38' 12"	25° 14' 25"	25° 18' 25"	20° 32' 20"	12° 24' 12"	8° 59' 8"	7° 57' 7"	9° 49' 49"	1° 4' 1"	M 27
T 28	16 24 30	7° 5' 49"	6° 48' 0"	18° 21' 9"	18° 21' 9"	9° 54' 11"	11° 33' 12"	25° 20' 25"	25° 15' 25"	20° 30' 20"	12° 26' 12"	8° 54' 8"	7° 54' 7"	9° 55' 55"	1° 4' 1"	T 28
W 29	16 28 27	8° 3' 15"	20° 57' 1'	19° 29' 10"	10° 35' 11"	10° 35' 11"	11° 28' 12"	25° 26' 25"	25° 13' 25"	20° 29' 20"	12° 27' 12"	8° 50' 8"	7° 50' 7"	10° 2' 2"	1° D 4'	W 29
T 30	16 32 23	9° 0' 40"	5° 6' 15"	20° 36' 11"	11° 16' 11"	11° 16' 11"	11° 22' 12"	25° 33' 25"	25° 11' 25"	20° 27' 20"	12° 29' 12"	8° D 49'	7° 47' 7"	10° 9' 9"	1° 4' 1"	T 30
F 31	16 36 20	9° 11' 58"	0° 4' 19"	21° 34' 21"	11° 58' 11"	11° 58' 11"	11° 27' 12"	25° 39' 25"	25° 8' 25"	20° 26' 20"	12° 30' 12"	8° 49' 8"	7° 44' 7"	10° 15' 15"	1° 5' 1"	F 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
W 1	15n12	22s 9	4s32	17n27	0n36	24n35	1n43	18n15	0n13	22s46	0n 6	21n52	0n22	23s36	0s10	21s49	1n23	12n55	9s25	4n 6	3n42	11n33	3s12	2s43
T 2	15 30	17 4	3 46	18 13	0 47	24 44	1 46	18 27	0 13	22 46	0 6	21 51	0 22	23 36	0 10	21 49	1 23	12 56	9 24	4 6	3 41	11 30	3 10	2 43
F 3	15 47	11 0	2 46	18 57	0 57	24 52	1 48	18 38	0 14	22 47	0 6	21 51	0 22	23 36	0 10	21 49	1 23	12 56	9 24	4 7	3 40	11 27	3 9	2 42
S 4	16 5	4 19	1 35	19 40	1 6	24 59	1 50	18 50	0 14	22 47	0 6	21 50	0 22	23 36	0 10	21 49	1 23	12 56	9 24	4 7	3 38	11 23	3 7	2 41
S 5	16 22	2n36	0 17	20 20	1 16	25 6	1 52	19 1	0 15	22 47	0 6	21 49	0 22	23 36	0 10	21 49	1 23	12 56	9 24	4 8	3 37	11 20	3 5	2 41
M 6	16 39	9 23	1n 1	20 58	1 25	25 12	1 54	19 12	0 16	22 47	0 6	21 49	0 22	23 35	0 10	21 48	1 23	12 57	9 24	4 7	3 36	11 17	3 4	2 40
T 7	16 55	15 38	2 15	21 33	1 33	25 17	1 56	19 23	0 16	22 47	0 5	21 48	0 22	23 35	0 10	21 48	1 23	12 57	9 24	4 7	3 35	11 14	3 2	2 40
W 8	17 12	20 59	3 19	22 6	1 41	25 22	1 58	19 34	0 17	22 48	0 5	21 47	0 22	23 35	0 10	21 48	1 23	12 57	9 24	4 5	3 33	11 11	3 1	2 39
T 9	17 28	25 4	4 10	22 36	1 48	25 26	2 0	19 44	0 17	22 48	0 5	21 47	0 22	23 35	0 10	21 48	1 23	12 58	9 24	4 3	3 32	11 7	2 59	2 39
F 10	17 44	27 38	4 46	23 4	1 55	25 29	2 1	19 54	0 18	22 48	0 5	21 46	0 22	23 35	0 10	21 48	1 23	12 58	9 23	4 0	3 31	11 4	2 58	2 38
S 11	17 59	28 35	5 6	23 30	2 0	25 32	2 3	20 4	0 19	22 49	0 5	21 45	0 22	23 35	0 10	21 48	1 23	12 58	9 23	3 58	3 30	11 1	2 57	2 37
S 12	18 14	27 56	5 9	23 52	2 5	25 34	2 5	20 14	0 19	22 49	0 5	21 44	0 22	23 35	0 10	21 48	1 23	12 58	9 23	3 55	3 28	10 58	2 55	2 37
M13	18 29	25 53	4 58	24 13	2 10	25 35	2 6	20 24	0 20	22 49	0 5	21 43	0 22	23 35	0 10	21 48	1 23	12 59	9 23	3 53	3 27	10 55	2 54	2 36
T 14	18 44	22 39	4 33	24 30	2 13	25 36	2 8	20 34	0 20	22 50	0 5	21 43	0 22	23 35	0 10	21 48	1 23	12 59	9 23	3 52	3 26	10 51	2 53	2 36
W15	18 58	18 32	3 56	24 46	2 16	25 35	2 9	20 43	0 21	22 50	0 4	21 42	0 22	23 35	0 10	21 48	1 23	12 59	9 23	3 52	3 25	10 48	2 52	2 35
T 16	19 12	13 44	3 10	24 59	2 18	25 35	2 10	20 52	0 21	22 50	0 4	21 41	0 22	23 35	0 10	21 47	1 23	13 0	9 23	3 52	3 23	10 45	2 51	2 34
F 17	19 25	8 28	2 16	25 9	2 19	25 33	2 12	21 1	0 22	22 51	0 4	21 40	0 22	23 35	0 10	21 47	1 23	13 0	9 23	3 52	3 22	10 42	2 50	2 34
S 18	19 39	2 52	1 15	25 18	2 19	25 31	2 13	21 10	0 23	22 51	0 4	21 39	0 23	23 35	0 10	21 47	1 23	13 0	9 23	3 53	3 21	10 38	2 49	2 33
S 19	19 52	2s53	0 11	25 24	2 18	25 28	2 14	21 18	0 23	22 52	0 4	21 38	0 23	23 35	0 10	21 47	1 23	13 0	9 22	3 53	3 20	10 35	2 48	2 32
M20	20 4	8 37	0s54	25 29	2 17	25 24	2 15	21 27	0 24	22 52	0 4	21 37	0 23	23 35	0 10	21 47	1 23	13 1	9 22	3 53	3 18	10 32	2 47	2 32
T 21	20 16	14 8	1 58	25 31	2 15	25 20	2 16	21 35	0 24	22 53	0 4	21 36	0 23	23 35	0 10	21 47	1 23	13 1	9 22	3 52	3 17	10 29	2 46	2 31
W22	20 28	19 12	2 58	25 32	2 11	25 15	2 16	21 43	0 25	22 53	0 4	21 35	0 23	23 35	0 10	21 47	1 23	13 1	9 22	3 50	3 16	10 26	2 45	2 31
T 23	20 40	23 29	3 49	25 31	2 7	25 9	2 17	21 51	0 25	22 54	0 3	21 34	0 23	23 35	0 10	21 47	1 23	13 1	9 22	3 47	3 15	10 22	2 44	2 30
F 24	20 51	26 38	4 30	25 29	2 3	25 3	2 18	21 58	0 26	22 54	0 3	21 33	0 23	23 35	0 10	21 47	1 23	13 2	9 22	3 44	3 13	10 19	2 43	2 29
S 25	21 2	28 19	4 56	25 25	1 57	24 56	2 18	22 6	0 27	22 55	0 3	21 32	0 23	23 35	0 10	21 46	1 23	13 2	9 22	3 41	3 12	10 16	2 42	2 29
S 26	21 12	28 16	5 5	25 19	1 50	24 48	2 18	22 13	0 27	22 55	0 3	21 31	0 23	23 34	0 10	21 46	1 23	13 2	9 22	3 37	3 11	10 13	2 42	2 28
M27	21 23	26 27	4 57	25 12	1 43	24 40	2 19	22 20	0 28	22 56	0 3	21 30	0 23	23 34	0 10	21 46	1 23	13 2	9 22	3 34	3 10	10 9	2 41	2 28
T 28	21 32	22 58	4 30	25 4	1 35	24 31	2 19	22 27	0 28	22 56	0 3	21 29	0 23	23 34	0 10	21 46	1 23	13 3	9 22	3 32	3 8	10 6	2 40	2 27
W29	21 42	18 8	3 47	24 55	1 26	24 22	2 19	22 33	0 29	22 57	0 3	21 28	0 23	23 34	0 10	21 46	1 23	13 3	9 22	3 31	3 7	10 3	2 40	2 26
T 30	21 51	12 18	2 50	24 44	1 16	24 11	2 19	22 40	0 29	22 57	0 3	21 27	0 23	23 34	0 10	21 46	1 23	13 3	9 22	3 30	3 6	10 0	2 39	2 26
F 31	21n59	5s50	1s43	24n33	1n 5	24n 1	2n19	22n46	0n30	22s58	0n 2	21n26	0n23	23s34	0s10	21s46	1n23	13n 3	9s22	3n30	3n 4	9n56	2s39	2s25

ASTRODIENST EPHEMERIS for the year 1652
geocentric

JUNE 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 40 16	10II55'28	3V22	3☾15	22☾51	12II39	11°R11	25☾45	25°R 6	20°R24	12II31	8°R50	7V41	10II22	1☾ 5	S 1
S 2	16 44 13	11°52'52	17°25	3°49	23°58	13°20	11☾ 6	25°51	25°R 4	20°R22	12°33	8°V50	7°38	10°29	1° 5	S 2
M 3	16 48 9	12°50'14	18°24	4°18	25° 5	14° 1	11° 0	25°58	25° 1	20°21	12°34	8°48	7°35	10°35	1° 6	M 3
T 4	16 52 6	13°47'37	15°17	4°43	26°11	14°42	10°54	26° 4	24°59	20°19	12°36	8°43	7°31	10°42	1° 7	T 4
W 5	16 56 2	14°44'58	29° 0	5° 4	27°18	15°23	10°48	26°10	24°57	20°18	12°37	8°36	7°28	10°49	1° 7	W 5
T 6	16 59 59	15°42'20	12II31	5°20	28°24	16° 4	10°42	26°17	24°54	20°16	12°38	8°27	7°25	10°55	1° 8	T 6
F 7	17 3 56	16°39'40	25°47	5°32	29°30	16°45	10°35	26°23	24°52	20°14	12°40	8°16	7°22	11° 2	1° 9	F 7
S 8	17 7 52	17°37'00	8☾46	5°39	0☾37	17°26	10°29	26°30	24°49	20°13	12°41	8° 4	7°19	11° 9	1°11	S 8
S 9	17 11 49	18°34'19	21°28	5°R41	1°42	18° 7	10°22	26°37	24°47	20°11	12°42	7°53	7°15	11°15	1°12	S 9
M10	17 15 45	19°31'37	3☾54	5°39	2°48	18°47	10°16	26°43	24°44	20° 9	12°44	7°44	7°12	11°22	1°13	M10
T 11	17 19 42	20°28'54	16° 4	5°33	3°54	19°28	10° 9	26°50	24°42	20° 8	12°45	7°37	7° 9	11°29	1°15	T 11
W12	17 23 38	21°26'11	28° 3	5°22	4°59	20° 9	10° 2	26°57	24°40	20° 6	12°47	7°32	7° 6	11°35	1°16	W12
T 13	17 27 35	22°23'26	9II54	5° 7	6° 4	20°49	9°55	27° 4	24°37	20° 5	12°48	7°30	7° 3	11°42	1°18	T 13
F 14	17 31 31	23°20'41	21°43	4°48	7° 9	21°30	9°48	27°11	24°35	20° 3	12°49	7°D29	7° 0	11°49	1°20	F 14
S 15	17 35 28	24°17'55	3☾35	4°26	8°13	22°11	9°41	27°17	24°32	20° 1	12°51	7°R29	6°56	11°55	1°22	S 15
S 16	17 39 25	25°15'09	15°35	4° 0	9°18	22°51	9°34	27°24	24°30	20° 0	12°52	7°29	6°53	12° 2	1°24	S 16
M17	17 43 21	26°12'22	27°48	3°32	10°22	23°32	9°27	27°31	24°27	19°58	12°53	7°28	6°50	12° 9	1°26	M17
T 18	17 47 18	27° 9'34	10II19	3° 0	11°26	24°12	9°19	27°38	24°25	19°57	12°55	7°24	6°47	12°15	1°28	T 18
W19	17 51 14	28° 6'46	23°12	2°27	12°30	24°52	9°12	27°46	24°23	19°55	12°56	7°18	6°44	12°22	1°31	W19
T 20	17 55 11	29° 3'57	6☾28	1°53	13°33	25°33	9° 4	27°53	24°20	19°53	12°58	7°10	6°41	12°29	1°33	T 20
F 21	17 59 7	0☾1'08	20° 6	1°18	14°36	26°13	8°57	28° 0	24°18	19°52	12°59	6°59	6°37	12°35	1°36	F 21
S 22	18 3 4	0°58'19	4☾ 5	0°42	15°39	26°53	8°49	28° 7	24°15	19°50	13° 0	6°48	6°34	12°42	1°38	S 22
S 23	18 7 1	1°55'30	18°20	0° 7	16°42	27°34	8°42	28°14	24°13	19°49	13° 2	6°36	6°31	12°49	1°41	S 23
M24	18 10 57	2°52'40	2☾45	29II33	17°44	28°14	8°34	28°21	24°10	19°47	13° 3	6°26	6°28	12°55	1°44	M24
T 25	18 14 54	3°49'51	17°13	29° 0	18°47	28°54	8°27	28°29	24° 8	19°45	13° 4	6°19	6°25	13° 2	1°47	T 25
W26	18 18 50	4°47'01	1☾40	28°30	19°48	29°34	8°19	28°36	24° 6	19°44	13° 5	6°14	6°21	13° 9	1°50	W26
T 27	18 22 47	5°44'12	16° 1	28° 2	20°50	0☾14	8°11	28°43	24° 3	19°42	13° 7	6°11	6°18	13°15	1°53	T 27
F 28	18 26 43	6°41'23	0V13	27°37	21°51	0°54	8° 4	28°51	24° 1	19°41	13° 8	6°11	6°15	13°22	1°57	F 28
S 29	18 30 40	7°38'34	14°15	27°16	22°52	1°34	7°56	28°58	23°59	19°39	13° 9	6°11	6°12	13°29	2° 0	S 29
S 30	18 34 36	8☾35'45	28V 6	26II59	23☾53	2☾14	7☾48	29☾ 6	23☾56	19☾38	13II11	6V10	6V 9	13II35	2☾ 4	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	
S 1	22n 8	0n54	0s29	24n21	0n54	23n49	2n18	22n52	0n30	22s59	0n 2	21n25	0n23	23s34	0s10	21s46	1n23	13n 3	9s22	3n30	3n 3	9n53	2s38	2s24						
S 2	22 15	7 33	0n46	24 8	0 42	23 37	2 18	22 57	0 31	22 59	0 2	21 24	0 23	23 34	0 10	21 45	1 23	13 4	9 22	3 30	3 2	9 50	2 38	2 24						
M 3	22 23	13 49	1 57	23 54	0 29	23 25	2 18	23 3	0 31	23 0	0 2	21 23	0 23	23 34	0 10	21 45	1 23	13 4	9 22	3 30	3 1	9 47	2 38	2 23						
T 4	22 30	19 20	3 1	23 40	0 16	23 12	2 17	23 8	0 32	23 0	0 2	21 22	0 24	23 34	0 10	21 45	1 23	13 4	9 21	3 28	2 59	9 43	2 37	2 23						
W 5	22 37	23 46	3 54	23 25	0 1	22 58	2 16	23 13	0 32	23 1	0 2	21 21	0 24	23 34	0 10	21 45	1 23	13 4	9 21	3 25	2 58	9 40	2 37	2 22						
T 6	22 43	26 50	4 32	23 9	0s13	22 44	2 15	23 18	0 33	23 2	0 2	21 19	0 24	23 34	0 10	21 45	1 23	13 4	9 21	3 21	2 57	9 37	2 37	2 21						
F 7	22 49	28 20	4 55	22 54	0 29	22 29	2 15	23 23	0 34	23 2	0 1	21 18	0 24	23 34	0 10	21 45	1 23	13 5	9 21	3 17	2 56	9 33	2 37	2 21						
S 8	22 55	28 13	5 2	22 38	0 44	22 14	2 13	23 27	0 34	23 3	0 1	21 17	0 24	23 33	0 10	21 45	1 23	13 5	9 21	3 12	2 54	9 30	2 37	2 20						
S 9	23 0	26 36	4 54	22 21	1 0	21 58	2 12	23 32	0 35	23 4	0 1	21 16	0 24	23 33	0 10	21 45	1 23	13 5	9 21	3 8	2 53	9 27	2 37	2 20						
M10	23 4	23 43	4 32	22 5	1 17	21 42	2 11	23 36	0 35	23 4	0 1	21 15	0 24	23 33	0 10	21 45	1 23	13 5	9 21	3 4	2 52	9 24	2 37	2 19						
T 11	23 9	19 50	3 57	21 49	1 34	21 25	2 10	23 40	0 36	23 5	0 1	21 13	0 24	23 33	0 10	21 44	1 23	13 5	9 21	3 2	2 51	9 20	2 37	2 18						
W12	23 13	15 12	3 13	21 32	1 50	21 8	2 8	23 43	0 36	23 6	0 1	21 12	0 24	23 33	0 10	21 44	1 23	13 6	9 21	3 0	2 49	9 17	2 37	2 18						
T 13	23 16	10 3	2 21	21 16	2 7	20 50	2 6	23 47	0 37	23 6	0 1	21 11	0 24	23 33	0 10	21 44	1 23	13 6	9 21	2 59	2 48	9 14	2 37	2 17						
F 14	23 19	4 33	1 23	21 0	2 24	20 32	2 5	23 50	0 37	23 7	0 0	21 10	0 24	23 33	0 10	21 44	1 23	13 6	9 21	2 59	2 47	9 10	2 37	2 17						
S 15	23 22	1s 7	0 21	20 45	2 40	20 13	2 3	23 53	0 38	23 8	0 0	21 8	0 24	23 33	0 10	21 44	1 23	13 6	9 21	2 59	2 46	9 7	2 37	2 16						
S 16	23 24	6 48	0s43	20 30	2 56	19 54	2 1	23 56	0 38	23 8	0 0	21 7	0 24	23 33	0 10	21 44	1 23	13 6	9 21	2 59	2 44	9 4	2 38	2 15						
M17	23 26	12 21	1 46	20 16	3 11	19 34	1 58	23 58	0 39	23 9	0 0	21 6	0 24	23 33	0 10	21 44	1 23	13 6	9 21	2 58	2 43	9 1	2 38	2 15						
T 18	23 27	17 33	2 45	20 2	3 25	19 15	1 56	24 1	0 39	23 10	0s 0	21 4	0 24	23 33	0 10	21 44	1 23	13 7	9 21	2 57	2 42	8 57	2 38	2 14						
W19	23 28	22 6	3 37	19 49	3 39	18 54	1 53	24 3	0 40	23 10	0 0	21 3	0 24	23 32	0 10	21 44	1 23	13 7	9 21	2 54	2 41	8 54	2 39	2 14						
T 20	23 29	25 41	4 19	19 37	3 51	18 33	1 51	24 5	0 40	23 11	0 0	21 2	0 25	23 32	0 10	21 43	1 23	13 7	9 21	2 51	2 39	8 51	2 39	2 13						
F 21	23 29	27 54	4 48	19 26	4 3	18 12	1 48	24 6	0 41	23 12	0 1	21 0	0 25	23 32	0 10	21 43	1 23	13 7	9 21	2 47	2 38	8 47	2 40	2 12						
S 22	23 29	28 25	5 0	19 16	4 13	17 51	1 45	24 8	0 41	23 12	0 1	20 59	0 25	23 32	0 10	21 43	1 23	13 7	9 21	2 42	2 37	8 44	2 40	2 12						
S 23	23 28	27 5	4 54	19 8	4 22	17 29	1 42	24 9	0 42	23 13	0 1	20 58	0 25	23 32	0 11	21 43	1 23	13 7	9 21	2 38	2 36	8 41	2 41	2 11						
M24	23 27	23 58	4 30	19 0	4 29	17 7	1 39	24 10	0 42	23 14	0 1	20 56	0 25	23 32	0 11	21 43	1 23	13 7	9 21	2 34	2 34	8 37	2 41	2 11						
T 25	23 26	19 19	3 48	18 54	4 35	16 45	1 36	24 11	0 42	23 14	0 1	20 55	0 25	23 32	0 11	21 43	1 23	13 8	9 21	2 31	2 33	8 34	2 42	2 10						
W26	23 24	13 34	2 51	18 50	4 39	16 22	1 32	24 12	0 43	23 15	0 1	20 53	0 25	23 32	0 11	21 43	1 23	13 8	9 21	2 29	2 32	8 31	2 43	2 9						
T 27	23 22	7 8	1 44	18 47	4 42	15 59	1 29	24 13	0 43	23 15	0 1	20 52	0 25	23 32	0 11	21 43	1 23	13 8	9 21	2 28	2 31	8 27	2 43	2 9						
F 28	23 19	0 24	0 31	18 45	4 43	15 36	1 25	24 13	0 44	23 16	0 2	20 50	0 25	23 32	0 11	21 43	1 23	13 8	9 21	2 28	2 29	8 24	2 44	2 8						
S 29	23 16	6n17	0n43	18 45	4 42	15 12	1 21	24 13	0 44	23 17	0 2	20 49	0 25	23 32	0 11	21 43	1 23	13 8	9 22	2 28	2 28	8 21	2 45	2 8						
S 30	23n12	12n35	1n53	18n47	4s41	14n48	1n17	24n13	0n45	23s17	0s 2	20n48	0n25	23s31	0s11	21s42	1n23	13n 8	9s22	2n27	2n27	8n18	2s46	2s 7						

ASTRODIENST EPHEMERIS for the year 1652
geocentric

AUGUST 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 40 46	9♌ 9'12	1♌25	0♌28	21♍57	23♎15	4°R11	3♏11	22°R54	18°R58	13♐46	3°R16	4°Y27	17♑8	4♒46	T 1
F 2	20 44 43	10° 6'43	14° 1	2°31	22°38	23°54	4♒6	3°19	22♑52	18♒57	13°46	3°Y7	4°24	17°15	4°52	F 2
S 3	20 48 39	11° 4'16	26°27	4°34	23°17	24°33	4° 2	3°27	22°51	18°56	13°47	2°57	4°21	17°21	4°59	S 3
S 4	20 52 36	12° 1'49	8♌41	6°38	23°56	25°12	3°57	3°34	22°50	18°56	13°48	2°48	4°18	17°28	5° 5	S 4
M 5	20 56 33	12°59'23	20°46	8°42	24°34	25°50	3°52	3°42	22°48	18°55	13°49	2°40	4°14	17°35	5°12	M 5
T 6	21 0 29	13°56'59	2♍43	10°45	25°10	26°29	3°48	3°50	22°47	18°54	13°50	2°34	4°11	17°41	5°18	T 6
W 7	21 4 26	14°54'35	14°34	12°48	25°45	27° 8	3°44	3°57	22°46	18°53	13°51	2°30	4° 8	17°48	5°25	W 7
T 8	21 8 22	15°52'13	26°20	14°51	26°19	27°47	3°40	4° 5	22°45	18°53	13°51	2°28	4° 5	17°55	5°32	T 8
F 9	21 12 19	16°49'51	8♌7	16°53	26°51	28°25	3°36	4°13	22°44	18°52	13°52	2°D28	4° 2	18° 1	5°39	F 9
S 10	21 16 15	17°47'31	19°57	18°54	27°23	29° 4	3°32	4°20	22°43	18°51	13°53	2°29	3°59	18° 8	5°46	S 10
S 11	21 20 12	18°45'12	1♍55	20°54	27°52	29°42	3°29	4°28	22°42	18°51	13°53	2°31	3°55	18°15	5°53	S 11
M12	21 24 8	19°42'54	14° 7	22°52	28°21	0♌21	3°26	4°35	22°41	18°50	13°54	2°R32	3°52	18°21	6° 0	M12
T 13	21 28 5	20°40'37	26°37	24°50	28°47	1° 0	3°22	4°43	22°40	18°50	13°55	2°32	3°49	18°28	6° 7	T 13
W14	21 32 1	21°38'21	9♒29	26°46	29°12	1°38	3°19	4°51	22°39	18°49	13°55	2°30	3°46	18°35	6°14	W14
T 15	21 35 58	22°36'06	22°48	28°41	29°36	2°17	3°17	4°58	22°38	18°49	13°56	2°27	3°43	18°41	6°22	T 15
F 16	21 39 55	23°33'53	6♒35	0♍35	29°57	2°55	3°14	5° 6	22°37	18°48	13°57	2°22	3°39	18°48	6°29	F 16
S 17	21 43 51	24°31'40	20°51	2°27	0♌17	3°33	3°12	5°13	22°37	18°48	13°57	2°17	3°36	18°55	6°36	S 17
S 18	21 47 48	25°29'29	5♌31	4°18	0°35	4°12	3° 9	5°21	22°36	18°47	13°58	2°11	3°33	19° 1	6°44	S 18
M19	21 51 44	26°27'20	20°29	6° 8	0°51	4°50	3° 7	5°28	22°35	18°47	13°58	2° 6	3°30	19° 8	6°51	M19
T 20	21 55 41	27°25'11	5♒37	7°56	1° 6	5°29	3° 6	5°35	22°35	18°46	13°59	2° 3	3°27	19°14	6°59	T 20
W21	21 59 37	28°23'04	20°45	9°43	1°18	6° 7	3° 4	5°43	22°34	18°46	13°59	2° 1	3°24	19°21	7° 6	W21
T 22	22 3 34	29°20'59	5°Y43	11°29	1°28	6°45	3° 2	5°50	22°34	18°46	14° 0	2°D 1	3°20	19°28	7°14	T 22
F 23	22 7 30	0♍18'56	20°26	13°13	1°36	7°23	3° 1	5°57	22°33	18°46	14° 0	2° 1	3°17	19°34	7°22	F 23
S 24	22 11 27	1°16'54	4♒48	14°56	1°42	8° 2	3° 0	6° 5	22°33	18°45	14° 1	2° 3	3°14	19°41	7°29	S 24
S 25	22 15 24	2°14'55	18°46	16°38	1°45	8°40	2°59	6°12	22°32	18°45	14° 1	2° 4	3°11	19°48	7°37	S 25
M26	22 19 20	3°12'57	2♐21	18°18	1°R46	9°18	2°58	6°19	22°32	18°45	14° 1	2°R 5	3° 8	19°54	7°45	M26
T 27	22 23 17	4°11'02	15°35	19°57	1°45	9°56	2°58	6°26	22°32	18°45	14° 2	2° 4	3° 5	20° 1	7°53	T 27
W28	22 27 13	5° 9'08	28°29	21°35	1°42	10°34	2°57	6°33	22°32	18°45	14° 2	2° 2	3° 1	20° 8	8° 1	W28
T 29	22 31 10	6° 7'17	11♌6	23°12	1°36	11°12	2°D57	6°41	22°31	18°45	14° 3	2° 0	2°58	20°14	8° 9	T 29
F 30	22 35 6	7° 5'27	23°29	24°48	1°28	11°51	2°57	6°48	22°31	18°D45	14° 3	1°56	2°55	20°21	8°17	F 30
S 31	22 39 3	8♍3'39	5♌41	26♍22	1♌18	12♌29	2♒58	6♌55	22°D31	18♒45	14♐3	1°Y52	2°Y52	20♍28	8♌25	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	lat	lat
T 1	18n 0	28n34	5n 6	21n18	1n15	1n10	2s12	22n26	0n58	23s31	0s 6	19n56	0n28	23s28	0s11	21s40	1n22	13n 9	9s24	1n18	1n46	6n30	3s35	1s51
F 2	17 45	27 43	5 0	20 57	1 21	0 46	2 22	22 20	0 59	23 32	0 6	19 54	0 28	23 28	0 11	21 40	1 21	13 9	9 24	1 14	1 45	6 27	3 37	1 50
S 3	17 29	25 30	4 41	20 34	1 27	0 22	2 31	22 13	0 59	23 32	0 6	19 53	0 28	23 28	0 11	21 40	1 21	13 9	9 25	1 11	1 44	6 23	3 39	1 50
S 4	17 13	22 7	4 9	20 8	1 32	0s 2	2 40	22 7	0 59	23 32	0 7	19 51	0 28	23 28	0 11	21 40	1 21	13 9	9 25	1 7	1 43	6 20	3 42	1 49
M 5	16 57	17 50	3 25	19 40	1 37	0 26	2 50	22 0	1 0	23 33	0 7	19 49	0 28	23 28	0 11	21 40	1 21	13 9	9 25	1 4	1 41	6 17	3 44	1 49
T 6	16 40	12 55	2 34	19 10	1 40	0 49	3 0	21 53	1 0	23 33	0 7	19 48	0 28	23 28	0 11	21 40	1 21	13 9	9 25	1 1	1 40	6 13	3 46	1 48
W 7	16 24	7 33	1 35	18 38	1 43	1 13	3 10	21 46	1 1	23 33	0 7	19 46	0 28	23 28	0 11	21 40	1 21	13 9	9 25	1 0	1 39	6 10	3 48	1 48
T 8	16 7	1 58	0 33	18 5	1 44	1 35	3 20	21 39	1 1	23 33	0 7	19 44	0 28	23 28	0 11	21 40	1 21	13 9	9 25	0 59	1 38	6 7	3 51	1 47
F 9	15 49	3s42	0s31	17 29	1 46	1 58	3 30	21 31	1 1	23 33	0 7	19 42	0 29	23 28	0 11	21 40	1 21	13 9	9 25	0 59	1 36	6 3	3 53	1 47
S 10	15 32	9 15	1 33	16 52	1 46	2 19	3 40	21 24	1 2	23 34	0 7	19 41	0 29	23 28	0 11	21 40	1 21	13 9	9 26	0 59	1 35	6 0	3 55	1 46
S 11	15 14	14 33	2 33	16 14	1 46	2 41	3 51	21 16	1 2	23 34	0 7	19 39	0 29	23 28	0 11	21 40	1 21	13 9	9 26	1 0	1 34	5 56	3 58	1 46
M12	14 56	19 24	3 27	15 34	1 45	3 2	4 1	21 8	1 2	23 34	0 8	19 37	0 29	23 28	0 11	21 40	1 21	13 9	9 26	1 0	1 32	5 53	4 0	1 45
T 13	14 38	23 31	4 12	14 54	1 43	3 22	4 12	21 0	1 3	23 34	0 8	19 35	0 29	23 28	0 11	21 40	1 21	13 9	9 26	1 0	1 31	5 50	4 3	1 45
W14	14 19	26 38	4 46	14 12	1 41	3 42	4 23	20 52	1 3	23 34	0 8	19 34	0 29	23 28	0 11	21 40	1 21	13 9	9 26	1 0	1 30	5 46	4 5	1 45
T 15	14 0	28 23	5 7	13 30	1 39	4 1	4 34	20 43	1 3	23 35	0 8	19 32	0 29	23 28	0 11	21 40	1 21	13 9	9 26	0 59	1 29	5 43	4 7	1 44
F 16	13 42	28 29	5 10	12 47	1 36	4 20	4 45	20 35	1 4	23 35	0 8	19 30	0 29	23 28	0 11	21 40	1 21	13 9	9 26	0 57	1 27	5 39	4 10	1 44
S 17	13 22	26 43	4 55	12 3	1 32	4 38	4 56	20 26	1 4	23 35	0 8	19 29	0 29	23 28	0 11	21 40	1 21	13 8	9 27	0 55	1 26	5 36	4 13	1 43
S 18	13 3	23 8	4 20	11 19	1 28	4 56	5 7	20 17	1 4	23 35	0 8	19 27	0 29	23 27	0 11	21 40	1 21	13 8	9 27	0 52	1 25	5 33	4 15	1 43
M19	12 43	17 58	3 27	10 35	1 24	5 12	5 18	20 9	1 5	23 35	0 8	19 25	0 30	23 27	0 11	21 40	1 21	13 8	9 27	0 50	1 24	5 29	4 18	1 42
T 20	12 24	11 38	2 19	9 50	1 19	5 28	5 29	20 0	1 5	23 35	0 8	19 23	0 30	23 27	0 11	21 40	1 21	13 8	9 27	0 49	1 22	5 26	4 20	1 42
W21	12 4	4 37	1 1	9 5	1 14	5 43	5 40	19 50	1 6	23 36	0 9	19 22	0 30	23 27	0 11	21 40	1 21	13 8	9 27	0 48	1 21	5 22	4 23	1 42
T 22	11 43	2n35	0n20	8 20	1 8	5 57	5 52	19 41	1 6	23 36	0 9	19 20	0 30	23 27	0 11	21 40	1 21	13 8	9 27	0 48	1 20	5 19	4 26	1 41
F 23	11 23	9 32	1 39	7 34	1 3	6 11	6 3	19 32	1 6	23 36	0 9	19 18	0 30	23 27	0 11	21 40	1 20	13 8	9 28	0 48	1 19	5 16	4 28	1 41
S 24	11 2	15 49	2 50	6 49	0 57	6 23	6 14	19 22	1 7	23 36	0 9	19 17	0 30	23 27	0 11	21 40	1 20	13 8	9 28	0 49	1 17	5 12	4 31	1 40
S 25	10 42	21 6	3 49	6 4	0 50	6 35	6 25	19 12	1 7	23 36	0 9	19 15	0 30	23 27	0 11	21 41	1 20	13 8	9 28	0 49	1 16	5 9	4 34	1 40
M26	10 21	25 8	4 33	5 18	0 44	6 45	6 35	19 3	1 7	23 36	0 9	19 13	0 30	23 27	0 11	21 41	1 20	13 8	9 28	0 50	1 15	5 5	4 36	1 40
T 27	10 0	27 42	5 1	4 33	0 37	6 54	6 46	18 53	1 8	23 36	0 9	19 11	0 30	23 27	0 11	21 41	1 20	13 7	9 28	0 50	1 14	5 2	4 39	1 39
W28	9 38	28 42	5 13	3 48	0 30	7 3	6 57	18 43	1 8	23 37	0 9	19 10	0 31	23 27	0 11	21 41	1 20	13 7	9 28	0 49	1 12	4 59	4 42	1 39
T 29	9 17	28 10	5 10	3 3	0 23	7 10	7 7	18 32	1 8	23 37	0 9	19 8	0 31	23 27	0 11	21 41	1 20	13 7	9 28	0 48	1 11	4 55	4 45	1 38
F 30	8 56	26 14	4 52	2 19	0 16	7 16	7 17	18 22	1 9	23 37	0 9	19 6	0 31	23 27	0 11	21 41	1 20	13 7	9 29	0 46	1 10	4 52	4 47	1 38
S 31	8n34	23n 6	4n21	1n34	0n 8	7s20	7s27	18n12	1n 9	23s37	0s10	19n 5	0n31	23s27	0s11	21s41	1n20	13n 7	9s29	0n45	1n 8	4n48	4s50	1s38

ASTRODIENST EPHEMERIS for the year 1652

geocentric

SEPTEMBER 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 42 59	9 ^h 1'53	17 ^h 43	27 ^h 55	1 ^h 5	13 ^h 7	2 ^h 58	7 ^h 2	22 ^h 31	18 ^h 45	14 ^h 3	1 ^h 48	2 ^h 49	20 ^h 34	8 ^h 33	S 1
M 2	22 46 56	10 ^h 0'09	29 ^h 39	29 ^h 27	0 ^h 50	13 ^h 45	2 ^h 59	7 ^h 9	22 ^h 31	18 ^h 45	14 ^h 4	1 ^h 45	2 ^h 45	20 ^h 41	8 ^h 41	M 2
T 3	22 50 53	10 ^h 58'27	11 ^h 29	0 ^h 58	0 ^h 32	14 ^h 23	2 ^h 59	7 ^h 16	22 ^h 31	18 ^h 45	14 ^h 4	1 ^h 42	2 ^h 42	20 ^h 48	8 ^h 49	T 3
W 4	22 54 49	11 ^h 56'46	23 ^h 17	2 ^h 28	0 ^h 13	15 ^h 1	3 ^h 0	7 ^h 22	22 ^h 32	18 ^h 45	14 ^h 4	1 ^h 41	2 ^h 39	20 ^h 54	8 ^h 57	W 4
T 5	22 58 46	12 ^h 55'07	5 ^h 4	3 ^h 56	29 ^h 51	15 ^h 38	3 ^h 2	7 ^h 29	22 ^h 32	18 ^h 45	14 ^h 4	1 ^h 41	2 ^h 36	21 ^h 1	9 ^h 6	T 5
F 6	23 2 42	13 ^h 53'30	16 ^h 52	5 ^h 23	29 ^h 27	16 ^h 16	3 ^h 3	7 ^h 36	22 ^h 32	18 ^h 45	14 ^h 4	1 ^h 42	2 ^h 33	21 ^h 7	9 ^h 14	F 6
S 7	23 6 39	14 ^h 51'55	28 ^h 45	6 ^h 49	29 ^h 1	16 ^h 54	3 ^h 5	7 ^h 43	22 ^h 32	18 ^h 46	14 ^h 5	1 ^h 43	2 ^h 30	21 ^h 14	9 ^h 22	S 7
S 8	23 10 35	15 ^h 50'22	10 ^h 47	8 ^h 14	28 ^h 33	17 ^h 32	3 ^h 6	7 ^h 50	22 ^h 33	18 ^h 46	14 ^h 5	1 ^h 44	2 ^h 26	21 ^h 21	9 ^h 31	S 8
M 9	23 14 32	16 ^h 48'50	23 ^h 0	9 ^h 37	28 ^h 3	18 ^h 10	3 ^h 8	7 ^h 56	22 ^h 33	18 ^h 46	14 ^h 5	1 ^h 46	2 ^h 23	21 ^h 27	9 ^h 39	M 9
T 10	23 18 28	17 ^h 47'19	5 ^h 29	10 ^h 59	27 ^h 31	18 ^h 48	3 ^h 10	8 ^h 3	22 ^h 34	18 ^h 47	14 ^h 5	1 ^h 46	2 ^h 20	21 ^h 34	9 ^h 47	T 10
W 11	23 22 25	18 ^h 45'51	18 ^h 19	12 ^h 20	26 ^h 59	19 ^h 25	3 ^h 13	8 ^h 9	22 ^h 34	18 ^h 47	14 ^h 5	1 ^h 47	2 ^h 17	21 ^h 41	9 ^h 56	W 11
T 12	23 26 22	19 ^h 44'24	1 ^h 31	13 ^h 39	26 ^h 24	20 ^h 3	3 ^h 15	8 ^h 16	22 ^h 35	18 ^h 47	14 ^h 5	1 ^h 47	2 ^h 14	21 ^h 47	10 ^h 4	T 12
F 13	23 30 18	20 ^h 42'59	15 ^h 10	14 ^h 58	25 ^h 49	20 ^h 41	3 ^h 18	8 ^h 22	22 ^h 35	18 ^h 48	14 ^h 5	1 ^h 46	2 ^h 11	21 ^h 54	10 ^h 13	F 13
S 14	23 34 15	21 ^h 41'35	29 ^h 16	16 ^h 14	25 ^h 13	21 ^h 19	3 ^h 21	8 ^h 29	22 ^h 36	18 ^h 48	14 ^h 5	1 ^h 45	2 ^h 7	22 ^h 1	10 ^h 21	S 14
S 15	23 38 11	22 ^h 40'14	13 ^h 48	17 ^h 29	24 ^h 37	21 ^h 56	3 ^h 24	8 ^h 35	22 ^h 37	18 ^h 49	14 ^h 5	1 ^h 44	2 ^h 4	22 ^h 7	10 ^h 30	S 15
M 16	23 42 8	23 ^h 38'53	28 ^h 41	18 ^h 42	24 ^h 0	22 ^h 34	3 ^h 27	8 ^h 41	22 ^h 37	18 ^h 49	14 ^h 5	1 ^h 43	2 ^h 1	22 ^h 14	10 ^h 38	M 16
T 17	23 46 4	24 ^h 37'35	13 ^h 49	19 ^h 54	23 ^h 23	23 ^h 11	3 ^h 30	8 ^h 47	22 ^h 38	18 ^h 50	14 ^h 5	1 ^h 42	1 ^h 58	22 ^h 21	10 ^h 47	T 17
W 18	23 50 1	25 ^h 36'19	29 ^h 2	21 ^h 4	22 ^h 46	23 ^h 49	3 ^h 34	8 ^h 54	22 ^h 39	18 ^h 50	14 ^h 5	1 ^h 42	1 ^h 55	22 ^h 27	10 ^h 55	W 18
T 19	23 53 57	26 ^h 35'04	14 ^h 12	22 ^h 12	22 ^h 9	24 ^h 27	3 ^h 38	9 ^h 0	22 ^h 40	18 ^h 51	14 ^h 5	1 ^h 42	1 ^h 51	22 ^h 34	11 ^h 4	T 19
F 20	23 57 54	27 ^h 33'52	29 ^h 8	23 ^h 18	21 ^h 33	25 ^h 4	3 ^h 42	9 ^h 6	22 ^h 41	18 ^h 52	14 ^h 4	1 ^h 42	1 ^h 48	22 ^h 41	11 ^h 13	F 20
S 21	0 1 51	28 ^h 32'42	13 ^h 45	24 ^h 22	20 ^h 58	25 ^h 42	3 ^h 46	9 ^h 12	22 ^h 42	18 ^h 52	14 ^h 4	1 ^h 42	1 ^h 45	22 ^h 47	11 ^h 21	S 21
S 22	0 5 47	29 ^h 31'34	27 ^h 56	25 ^h 23	20 ^h 24	26 ^h 19	3 ^h 50	9 ^h 18	22 ^h 43	18 ^h 53	14 ^h 4	1 ^h 43	1 ^h 42	22 ^h 54	11 ^h 30	S 22
M 23	0 9 44	0 ^h 30'28	11 ^h 44	26 ^h 22	19 ^h 52	26 ^h 56	3 ^h 55	9 ^h 23	22 ^h 44	18 ^h 54	14 ^h 4	1 ^h 43	1 ^h 39	23 ^h 0	11 ^h 39	M 23
T 24	0 13 40	1 ^h 29'25	24 ^h 58	27 ^h 18	19 ^h 20	27 ^h 34	3 ^h 59	9 ^h 29	22 ^h 45	18 ^h 55	14 ^h 4	1 ^h 43	1 ^h 36	23 ^h 7	11 ^h 47	T 24
W 25	0 17 37	2 ^h 28'24	7 ^h 53	28 ^h 12	18 ^h 51	28 ^h 11	4 ^h 4	9 ^h 35	22 ^h 47	18 ^h 55	14 ^h 3	1 ^h 43	1 ^h 32	23 ^h 14	11 ^h 56	W 25
T 26	0 21 33	3 ^h 27'26	20 ^h 26	29 ^h 2	18 ^h 23	28 ^h 49	4 ^h 9	9 ^h 40	22 ^h 48	18 ^h 56	14 ^h 3	1 ^h 43	1 ^h 29	23 ^h 20	12 ^h 5	T 26
F 27	0 25 30	4 ^h 26'30	2 ^h 43	29 ^h 49	17 ^h 58	29 ^h 26	4 ^h 14	9 ^h 46	22 ^h 49	18 ^h 57	14 ^h 3	1 ^h 43	1 ^h 26	23 ^h 27	12 ^h 14	F 27
S 28	0 29 26	5 ^h 25'36	14 ^h 46	0 ^h 32	17 ^h 34	0 ^h 3	4 ^h 20	9 ^h 52	22 ^h 51	18 ^h 58	14 ^h 3	1 ^h 44	1 ^h 23	23 ^h 34	12 ^h 22	S 28
S 29	0 33 23	6 ^h 24'44	26 ^h 41	1 ^h 11	17 ^h 13	0 ^h 41	4 ^h 25	9 ^h 57	22 ^h 52	18 ^h 59	14 ^h 2	1 ^h 44	1 ^h 20	23 ^h 40	12 ^h 31	S 29
M 30	0 37 20	7 ^h 23'55	8 ^h 31	1 ^h 45	16 ^h 53	1 ^h 18	4 ^h 31	10 ^h 2	22 ^h 54	19 ^h 0	14 ^h 2	1 ^h 45	1 ^h 16	23 ^h 47	12 ^h 40	M 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	8n12	19n 1	3n39	0n50	0n 1	7s24	7s36	18n 1	1n 9	23s37	0s10	19n 3	0n31	23s27	0s11	21s41	1n20	13n 7	9s29	0n43	1n 7	4n45	4s53	1s37			
M 2	7 50	14 14	2 48	0 7	0s 7	7 26	7 45	17 51	1 9	23 37	0 10	19 1	0 31	23 27	0 11	21 41	1 20	13 7	9 29	0 42	1 6	4 41	4 56	1 37			
T 3	7 28	8 57	1 49	0s37	0 15	7 27	7 53	17 40	1 10	23 37	0 10	19 0	0 31	23 27	0 11	21 41	1 20	13 7	9 29	0 41	1 5	4 38	4 59	1 37			
W 4	7 6	3 23	0 46	1 20	0 23	7 26	8 1	17 29	1 10	23 37	0 10	18 58	0 31	23 27	0 11	21 41	1 20	13 6	9 29	0 40	1 3	4 35	5 2	1 36			
T 5	6 43	2s18	0s19	2 2	0 31	7 24	8 8	17 18	1 10	23 37	0 10	18 56	0 31	23 27	0 11	21 41	1 20	13 6	9 30	0 40	1 2	4 31	5 5	1 36			
F 6	6 21	7 55	1 23	2 44	0 39	7 21	8 15	17 7	1 11	23 37	0 10	18 55	0 32	23 27	0 11	21 41	1 20	13 6	9 30	0 41	1 1	4 28	5 8	1 35			
S 7	5 58	13 18	2 24	3 26	0 47	7 16	8 21	16 56	1 11	23 37	0 10	18 53	0 32	23 27	0 11	21 41	1 20	13 6	9 30	0 41	1 0	4 24	5 11	1 35			
S 8	5 36	18 15	3 20	4 7	0 55	7 10	8 27	16 44	1 11	23 37	0 10	18 52	0 32	23 27	0 11	21 41	1 20	13 6	9 30	0 42	0 58	4 21	5 14	1 35			
M 9	5 13	22 33	4 8	4 47	1 3	7 2	8 31	16 33	1 12	23 37	0 10	18 50	0 32	23 27	0 11	21 41	1 20	13 6	9 30	0 42	0 57	4 18	5 16	1 34			
T 10	4 50	25 56	4 45	5 27	1 11	6 53	8 35	16 22	1 12	23 37	0 11	18 48	0 32	23 27	0 11	21 41	1 20	13 5	9 30	0 42	0 56	4 14	5 19	1 34			
W 11	4 27	28 6	5 9	6 6	1 19	6 43	8 38	16 10	1 12	23 38	0 11	18 47	0 32	23 27	0 11	21 42	1 19	13 5	9 31	0 43	0 55	4 11	5 22	1 34			
T 12	4 4	28 46	5 17	6 44	1 27	6 31	8 40	15 58	1 13	23 38	0 11	18 45	0 32	23 27	0 11	21 42	1 19	13 5	9 31	0 42	0 53	4 7	5 25	1 33			
F 13	3 41	27 44	5 9	7 22	1 35	6 18	8 41	15 47	1 13	23 38	0 11	18 44	0 32	23 27	0 11	21 42	1 19	13 5	9 31	0 42	0 52	4 4	5 28	1 33			
S 14	3 18	24 56	4 41	7 59	1 43	6 5	8 42	15 35	1 13	23 38	0 11	18 42	0 33	23 28	0 11	21 42	1 19	13 5	9 31	0 42	0 51	4 0	5 32	1 33			
S 15	2 55	20 29	3 56	8 35	1 51	5 49	8 41	15 23	1 13	23 38	0 11	18 41	0 33	23 28	0 11	21 42	1 19	13 5	9 31	0 41	0 49	3 57	5 35	1 32			
M 16	2 32	14 40	2 53	9 10	1 59	5 33	8 39	15 11	1 14	23 38	0 11	18 39	0 33	23 28	0 11	21 42	1 19	13 4	9 31	0 41	0 48	3 54	5 38	1 32			
T 17	2 8	7 53	1 38	9 45	2 6	5 16	8 37	14 59	1 14	23 38	0 11	18 38	0 33	23 28	0 11	21 42	1 19	13 4	9 32	0 41	0 47	3 50	5 41	1 32			
W 18	1 45	0 37	0 15	10 18	2 14	4 59	8 33	14 47	1 14	23 38	0 11	18 36	0 33	23 28	0 11	21 42	1 19	13 4	9 32	0 41	0 46	3 47	5 44	1 31			
T 19	1 22	6n40	1n 9	10 50	2 21	4 40	8 29	14 34	1 15	23 38	0 11	18 35	0 33	23 28	0 11	21 42	1 19	13 4	9 32	0 41	0 44	3 43	5 47	1 31			
F 20	0 58	13 29	2 27	11 22	2 28	4 21	8 24	14 22	1 15	23 38	0 11	18 33	0 33	23 28	0 11	21 42	1 19	13 4	9 32	0 41	0 43	3 40	5 50	1 31			
S 21	0 35	19 23	3 33	11 52	2 35	4 2	8 17	14 10	1 15	23 37	0 11	18 32	0 33	23 28	0 11	21 43	1 19	13 4	9 32	0 41	0 42	3 36	5 53	1 30			
S 22	0 11	24 2	4 24	12 21	2 42	3 42	8 10	13 57	1 15	23 37	0 12	18 30	0 34	23 28	0 11	21 43	1 19	13 3	9 32	0 41	0 41	3 33	5 56	1 30			
M 23	0s12	27 10	4 59	12 48	2 48	3 22	8 3	13 45	1 16	23 37	0 12	18 29	0 34	23 28	0 11	21 43	1 19	13 3	9 33	0 41	0 39	3 30	5 59	1 30			
T 24	0 36	28 39	5 16	13 15	2 54	3 2	7 54	13 32	1 16	23 37	0 12	18 27	0 34	23 28	0 11	21 43	1 19	13 3	9 33	0 41	0 38	3 26	6 1	1 29			
W 25	0 59	28 31	5 16	13 39	3 0	2 43	7 45	13 19	1 16	23 37	0 12	18 26	0 34	23 28	0 11	21 43	1 19	13 3	9 33	0 41	0 37	3 23	6 5	1 29			
T 26	1 23	26 53	5 1	14 2	3 5	2 23	7 35	13 6	1 17	23 37	0 12	18 25	0 34	23 28	0 11	21 43	1 19	13 3	9 33	0 41	0 36	3 19	6 9	1 29			
F 27	1 46	24 1	4 33	14 24	3 10	2 3	7 25	12 54	1 17	23 37	0 12	18 23	0 34	23 28	0 11	21 43	1 19	13 3	9 33	0 41	0 34	3 16	6 12	1 28			
S 28	2 10	20 8	3 53	14 43	3 15	1 44	7 14	12 41	1 17	23 37	0 12	18 22	0 34	23 28	0 11	21 43	1 19	13 2	9 33	0 41	0 33	3 12	6 15	1 28			
S 29	2 33	15 30	3 3	15 1	3 19	1 25	7 2	12 28	1 17	23 37	0 12	18 21	0 34	23 28	0 11	21 43	1 19	13 2	9 34	0 41	0 32	3 9	6 18	1 28			
M 30	2s56	10n20	2n 6	15s16	3s22	1s 7	6s51	12n15	1n18	23s37	0s12	18n19	0n35	23s28	0s11	21s44	1n19	13n 2	9s34	0n42	0n30	3n 5	6s21	1s27			

ASTRODIENST EPHEMERIS for the year 1652
geocentric

OCTOBER 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 41 16	8♂23°07	20♂18	2♂15	16°R37	1♂55	4♂37	10♂8	22♂55	19♂1	14°R 2	1♂45	1♂13	23♂54	12♂49	T 1
W 2	0 45 13	9°22'22	2♂5	2°39	16♂22	2°32	4°43	10°13	22°57	19°2	14♂1	1°R45	1°10	24°0	12°57	W 2
T 3	0 49 9	10°21'39	13°56	2°57	16°10	3°10	4°49	10°18	22°58	19°3	14°1	1°45	1°7	24°7	13°6	T 3
F 4	0 53 6	11°20'58	25°51	3°10	16°1	3°47	4°55	10°23	23°0	19°4	14°0	1°44	1°4	24°14	13°15	F 4
S 5	0 57 2	12°20'19	7♂53	3°R15	15°53	4°24	5°2	10°28	23°2	19°5	14°0	1°43	1°1	24°20	13°24	S 5
S 6	1 0 59	13°19'42	20°3	3°13	15°49	5°1	5°8	10°33	23°3	19°7	13°59	1°41	0°57	24°27	13°33	S 6
M 7	1 4 55	14°19'07	2♂26	3°4	15°D46	5°38	5°15	10°38	23°5	19°8	13°59	1°40	0°54	24°34	13°41	M 7
T 8	1 8 52	15°18'33	15°1	2°47	15°47	6°15	5°22	10°42	23°7	19°9	13°58	1°38	0°51	24°40	13°50	T 8
W 9	1 12 49	16°18'02	27°53	2°21	15°49	6°52	5°29	10°47	23°9	19°10	13°58	1°37	0°48	24°47	13°59	W 9
T 10	1 16 45	17°17'32	11♂3	1°47	15°54	7°29	5°36	10°52	23°11	19°11	13°57	1°D36	0°45	24°53	14°8	T 10
F 11	1 20 42	18°17'05	24°34	1°4	16°1	8°6	5°44	10°56	23°13	19°13	13°57	1°36	0°42	25°0	14°17	F 11
S 12	1 24 38	19°16'39	8♂26	0°13	16°10	8°43	5°51	11°0	23°15	19°14	13°56	1°36	0°38	25°7	14°25	S 12
S 13	1 28 35	20°16'14	22°41	29♂15	16°22	9°20	5°59	11°5	23°17	19°15	13°56	1°38	0°35	25°13	14°34	S 13
M14	1 32 31	21°15'51	7♂17	28°10	16°35	9°57	6°7	11°9	23°19	19°17	13°55	1°39	0°32	25°20	14°43	M14
T 15	1 36 28	22°15'30	22°9	27°0	16°51	10°34	6°15	11°13	23°21	19°18	13°54	1°40	0°29	25°27	14°52	T 15
W16	1 40 24	23°15'11	7♂11	25°46	17°8	11°10	6°23	11°17	23°23	19°20	13°54	1°R40	0°26	25°33	15°0	W16
T 17	1 44 21	24°14'54	22°15	24°31	17°28	11°47	6°31	11°21	23°26	19°21	13°53	1°39	0°22	25°40	15°9	T 17
F 18	1 48 17	25°14'39	7♂12	23°16	17°50	12°24	6°39	11°25	23°28	19°23	13°52	1°37	0°19	25°47	15°18	F 18
S 19	1 52 14	26°14'26	21°54	22°4	18°13	13°1	6°48	11°29	23°30	19°24	13°51	1°34	0°16	25°53	15°27	S 19
S 20	1 56 11	27°14'15	6♂14	20°58	18°38	13°37	6°56	11°32	23°32	19°26	13°51	1°30	0°13	26°0	15°35	S 20
M21	2 0 7	28°14'06	20°7	19°58	19°5	14°14	7°5	11°36	23°35	19°27	13°50	1°26	0°10	26°7	15°44	M21
T 22	2 4 4	29°14'00	3♂33	19°7	19°34	14°51	7°14	11°39	23°37	19°29	13°49	1°23	0°7	26°13	15°53	T 22
W23	2 8 0	0♂13'56	16°33	18°27	20°4	15°27	7°23	11°43	23°40	19°30	13°48	1°21	0°3	26°20	16°1	W23
T 24	2 11 57	1°13'54	29°8	17°57	20°36	16°4	7°32	11°46	23°42	19°32	13°48	1°D20	0°0	26°27	16°10	T 24
F 25	2 15 53	2°13'54	11♂25	17°39	21°9	16°40	7°41	11°49	23°45	19°34	13°47	1°20	29♂57	26°33	16°18	F 25
S 26	2 19 50	3°13'56	23°26	17°D32	21°44	17°17	7°51	11°52	23°47	19°35	13°46	1°22	29°54	26°40	16°27	S 26
S 27	2 23 47	4°14'00	5♂18	17°37	22°20	17°53	8°0	11°55	23°50	19°37	13°45	1°24	29°51	26°46	16°36	S 27
M28	2 27 43	5°14'07	17°5	17°53	22°57	18°30	8°10	11°58	23°53	19°39	13°44	1°25	29°48	26°53	16°44	M28
T 29	2 31 40	6°14'15	28°52	18°18	23°36	19°6	8°20	12°1	23°55	19°41	13°43	1°R26	29°44	27°0	16°53	T 29
W30	2 35 36	7°14'25	10♂42	18°53	24°15	19°43	8°29	12°4	23°58	19°42	13°43	1°26	29°41	27°6	17°1	W30
T 31	2 39 33	8♂14'38	22♂38	19♂36	24♂57	20♂19	8♂39	12♂6	24♂1	19♂44	13♂42	1♂23	29♂38	27♂13	17♂10	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	decl lat
T 1	3s20	4n49 1n 3	15s28	3s25	0s49	6s38	12n 1	1n18	23s37	0s12	18n18	0n35	23s29	0s11	21s44	1n18
W 2	3 43	0s52 0s 2	15 39	3 26	0 32	6 26	11 48	1 18	23 37	0 12	18 17	0 35	23 29	0 11	21 44	1 18
T 3	4 7	6 32 1 7	15 46	3 27	0 16	6 13	11 35	1 18	23 36	0 12	18 15	0 35	23 29	0 11	21 44	1 18
F 4	4 30	12 1 2	10 15	50 3	27 0	1 6	0 11	22 1	19 23	36 0	13 18	14 0	35 23	29 0	11 21	44 1
S 5	4 53	17 7 3	7 15	51 3	26 0	14	5 48	11 8	1 19	23	36 0	13 18	13 0	35 23	29 0	11 21
S 6	5 16	21 36 3	57 15	48 3	24 0	28 5	34 10	55 1	19 23	36 0	13 18	12 0	35 23	29 0	11 21	44 1
M 7	5 39	25 12 4	36 15	41 3	20 0	41 5	21 10	42 1	19 23	36 0	13 18	11 0	36 23	29 0	11 21	45 1
T 8	6 2	27 40 5	3 15	30 3	15 0	53 5	8 10	28 1	20 23	36 0	13 18	10 0	36 23	29 0	11 21	45 1
W 9	6 25	28 44 5	16 15	15 3	8 1	4 4	55 10	15 1	20 23	35 0	13 18	8 0	36 23	29 0	11 21	45 1
T 10	6 48	28 13 5	12 14	55 3	0 1	15 4	42 10	1 1	20 23	35 0	13 18	7 0	36 23	29 0	11 21	45 1
F 11	7 11	26 2 4	5 11	14 31	2 40	1 24	4 29	9 47	1 20	23	35 0	13 18	6 0	36 23	29 0	11 21
S 12	7 34	22 16 4	14 14	1 2	37 1	32 4	16 9	34 1	21 23	35 0	13 18	5 0	36 23	30 0	11 21	45 1
S 13	7 56	17 7 3	19 13	28 2	23 1	40 4	3 9	20 1	21 23	34 0	13 18	4 0	37 23	30 0	11 21	45 1
M14	8 19	10 53 2	11 12	50 2	8 1	46 3	50 9	6 1	21 23	34 0	13 18	3 0	37 23	30 0	11 21	46 1
T 15	8 41	3 55 0	52 12	8 1	50 1	52 3	37 8	53 1	21 23	34 0	13 18	2 0	37 23	30 0	11 21	46 1
W16	9 3	3n19 0n30	11 24	1 32	1 57	3 25	8 39	1 22	23	33 0	13 18	1 0	37 23	30 0	11 21	46 1
T 17	9 25	10 24 1	51 10	38 1	12 2	0 3	13 8	25 1	22 23	33 0	13 18	0 0	37 23	30 0	11 21	46 1
F 18	9 47	16 50 3	3 9	51 0	52 2	3 3	1 8	11 1	22 23	33 0	14 17	59 0	37 23	30 0	11 21	46 1
S 19	10 9	22 10 4	2 9	5 0	31 2	5 2	49 7	57 1	22 23	32 0	14 17	58 0	37 23	30 0	11 21	46 1
S 20	10 31	26 3 4	44 8	21 0	10 2	6 2	37 7	43 1	23 23	32 0	14 17	57 0	38 23	30 0	11 21	47 1
M21	10 52	28 14 5	8 7	40 0	n10	6 2	25 7	29 1	23 23	32 0	14 17	57 0	38 23	31 0	11 21	47 1
T 22	11 13	28 40 5	14 7	3 0	29 2	5 2	14 7	15 1	23 23	31 0	14 17	56 0	38 23	31 0	11 21	47 1
W23	11 35	27 28 5	3 6	32 0	47 2	3 2	3 7	1 1	23 23	31 0	14 17	55 0	38 23	31 0	11 21	47 1
T 24	11 56	24 54 4	38 6	5 1	3 2	1 1	52 6	47 1	24 23	30 0	14 17	54 0	38 23	31 0	11 21	47 1
F 25	12 16	21 15 4	1 1	5 45	1 18	1 58	1 42	6 33	1 24	23	30 0	14 17	54 0	38 23	31 0	11 21
S 26	12 37	16 46 3	13 5	40 1	30 1	53 1	31 6	19 1	24 23	29 0	14 17	53 0	39 23	31 0	11 21	48 1
S 27	12 57	11 44 2	18 5	22 1	42 1	49 1	21 6	5 1	24 23	29 0	14 17	52 0	39 23	31 0	11 21	48 1
M28	13 18	6 18 1	18 5	19 1	51 1	43 1	11 5	51 1	24 23	28 0	14 17	51 0	39 23	31 0	11 21	48 1
T 29	13 38	0 40 0	14 5	22 1	59 1	37 1	1 5	37 1	25 23	28 0	14 17	51 0	39 23	32 0	11 21	48 1
W30	13 57	5s 1 0s50	5 29	2 5	1 29	0 52	5 23	1 25	23	27 0	14 17	50 0	39 23	32 0	11 21	48 1
T 31	14s17	10s34 1s53	5s41	2n 9	1n22	0s43	5n 9	1n25	23s27	0s15	17n50	0n39	23s32	0s11	21s48	1n17

Julian Day Number = 2324714.5, Delta T = 41.40 sec
Ecliptic obliquity = 23°29'14", Nutation = - 0°00'01", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'36", Lahiri = 19°00'37"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1652
geocentric

NOVEMBER 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 43 29	9♉14°52	4♉43	20♊27	25♋39	20♋55	8♌50	12♍9	24♎4	19♏46	13♐R41	1♑R19	29♒35	27♓20	17♊18	F 1
S 2	2 47 26	10°15'08	16°59	21°25	26°22	21°32	9°0	12°11	24°7	19°48	13♐II40	1♑Y14	29°32	27°26	17°26	S 2
S 3	2 51 22	11°15'26	29°26	22°28	27°6	22°8	9°10	12°13	24°9	19°50	13°39	1°6	29°28	27°33	17°35	S 3
M 4	2 55 19	12°15'46	12♊4	23°37	27°52	22°44	9°20	12°16	24°12	19°52	13°38	0°59	29°25	27°40	17°43	M 4
T 5	2 59 15	13°16'08	24°56	24°49	28°38	23°20	9°31	12°18	24°15	19°53	13°37	0°51	29°22	27°46	17°51	T 5
W 6	3 3 12	14°16'30	8♌0	26°6	29°25	23°56	9°42	12°20	24°18	19°55	13°36	0°45	29°19	27°53	18°0	W 6
T 7	3 7 9	15°16'55	21°17	27°26	0♉13	24°32	9°52	12°21	24°21	19°57	13°35	0°40	29°16	28°0	18°8	T 7
F 8	3 11 5	16°17'21	4♌48	28°48	1°2	25°8	10°3	12°23	24°24	19°59	13°34	0°38	29°13	28°6	18°16	F 8
S 9	3 15 2	17°17'48	18°34	0♉13	1°52	25°44	10°14	12°25	24°27	20°1	13°33	0°D37	29°9	28°13	18°24	S 9
S 10	3 18 58	18°18'16	2♊34	1°40	2°43	26°20	10°25	12°26	24°30	20°3	13°32	0°38	29°6	28°19	18°32	S 10
M 11	3 22 55	19°18'45	16°50	3°8	3°34	26°56	10°36	12°28	24°33	20°5	13°31	0°39	29°3	28°26	18°40	M 11
T 12	3 26 51	20°19'16	1°Y18	4°37	4°26	27°32	10°47	12°29	24°37	20°7	13°30	0°R40	29°0	28°33	18°48	T 12
W 13	3 30 48	21°19'48	15°56	6°8	5°19	28°8	10°59	12°30	24°40	20°9	13°29	0°39	28°57	28°39	18°56	W 13
T 14	3 34 45	22°20'22	0♊39	7°39	6°13	28°44	11°10	12°31	24°43	20°11	13°28	0°35	28°54	28°46	19°4	T 14
F 15	3 38 41	23°20'57	15°20	9°11	7°7	29°20	11°22	12°32	24°46	20°13	13°27	0°30	28°50	28°53	19°12	F 15
S 16	3 42 38	24°21'33	29°52	10°44	8°2	29°55	11°33	12°33	24°49	20°15	13°25	0°22	28°47	28°59	19°20	S 16
S 17	3 46 34	25°22'11	14♐8	12°17	8°58	0♉31	11°45	12°34	24°53	20°17	13°24	0°13	28°44	29°6	19°28	S 17
M 18	3 50 31	26°22'51	28°1	13°50	9°54	1°7	11°57	12°34	24°56	20°20	13°23	0°3	28°41	29°13	19°35	M 18
T 19	3 54 27	27°23'32	11♊30	15°24	10°51	1°42	12°9	12°35	24°59	20°22	13°22	29♊54	28°38	29°19	19°43	T 19
W 20	3 58 24	28°24'14	24°34	16°57	11°48	2°18	12°20	12°35	25°2	20°24	13°21	29°47	28°34	29°26	19°51	W 20
T 21	4 2 20	29°24'58	7♉13	18°31	12°46	2°53	12°32	12°36	25°6	20°26	13°20	29°42	28°31	29°33	19°58	T 21
F 22	4 6 17	0♊25'44	19°32	20°5	13°44	3°29	12°45	12°36	25°9	20°28	13°19	29°39	28°28	29°39	20°6	F 22
S 23	4 10 14	1°26'31	1♋35	21°39	14°43	4°4	12°57	12°R36	25°13	20°30	13°18	29°D39	28°25	29°46	20°13	S 23
S 24	4 14 10	2°27'20	13°27	23°14	15°43	4°39	13°9	12°36	25°16	20°32	13°17	29°39	28°22	29°52	20°21	S 24
M 25	4 18 7	3°28'10	25°14	24°48	16°43	5°15	13°21	12°36	25°19	20°35	13°15	29°R40	28°19	29°59	20°28	M 25
T 26	4 22 3	4°29'02	7♉2	26°22	17°43	5°50	13°34	12°35	25°23	20°37	13°14	29°40	28°15	0♉6	20°35	T 26
W 27	4 26 0	5°29'55	18°54	27°56	18°44	6°25	13°46	12°35	25°26	20°39	13°13	29°38	28°12	0°12	20°43	W 27
T 28	4 29 56	6°30'49	0♉57	29°30	19°45	7°0	13°59	12°34	25°30	20°41	13°12	29°33	28°9	0°19	20°50	T 28
F 29	4 33 53	7°31'45	13°12	1♊4	20°47	7°36	14°11	12°34	25°33	20°43	13°11	29°26	28°6	0°26	20°57	F 29
S 30	4 37 49	8♊32'42	25♉41	2♊38	21♊49	8♉11	14♌24	12♍33	25♎37	20♏46	13♐II10	29♑16	28♒3	0♉32	21♊4	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	14s36	15s48	2s51	5s58	2n12	1n13	0s34	4n55	1n25	23s26	0s15	17n49	0n40	23s32	0s11	21s49
S 2	14 55	20 29	3 42	6 17	2 14	1 4	0 25	4 41	1 25	23 25	0 15	17 49	0 40	23 32	0 11	21 49
S 3	15 14	24 21	4 24	6 40	2 15	0 54	0 16	4 26	1 26	23 25	0 15	17 48	0 40	23 32	0 11	21 49
M 4	15 33	27 7	4 53	7 6	2 15	0 44	0 8	4 12	1 26	23 24	0 15	17 48	0 40	23 32	0 11	21 49
T 5	15 51	28 30	5 7	7 34	2 14	0 33	0 0	3 58	1 26	23 24	0 15	17 47	0 40	23 32	0 11	21 49
W 6	16 9	28 21	5 7	8 3	2 12	0 21	0n 8	3 44	1 26	23 23	0 15	17 47	0 40	23 33	0 11	21 49
T 7	16 27	26 34	4 49	8 35	2 9	0 9	0 16	3 30	1 27	23 22	0 15	17 47	0 41	23 33	0 11	21 50
F 8	16 45	23 14	4 16	9 7	2 5	0s 4	0 23	3 16	1 27	23 21	0 15	17 46	0 41	23 33	0 11	21 50
S 9	17 2	18 35	3 27	9 41	2 1	0 17	0 30	3 2	1 27	23 21	0 15	17 46	0 41	23 33	0 11	21 50
S 10	17 19	12 51	2 26	10 15	1 57	0 31	0 37	2 47	1 27	23 20	0 15	17 46	0 41	23 33	0 11	21 50
M 11	17 35	6 21	1 14	10 50	1 52	0 45	0 44	2 33	1 27	23 19	0 15	17 45	0 41	23 33	0 11	21 50
T 12	17 52	0n34	0n 3	11 25	1 47	1 0	0 51	2 19	1 27	23 18	0 15	17 45	0 41	23 33	0 11	21 51
W 13	18 8	7 32	1 21	12 0	1 41	1 15	0 57	2 5	1 28	23 17	0 15	17 45	0 42	23 34	0 11	21 51
T 14	18 23	14 8	2 34	12 35	1 35	1 30	1 3	1 51	1 28	23 16	0 16	17 45	0 42	23 34	0 11	21 51
F 15	18 39	19 55	3 36	13 11	1 29	1 46	1 9	1 37	1 28	23 16	0 16	17 45	0 42	23 34	0 11	21 51
S 16	18 54	24 27	4 24	13 46	1 23	2 3	1 15	1 23	1 28	23 15	0 16	17 45	0 42	23 34	0 11	21 51
S 17	19 9	27 24	4 54	14 21	1 16	2 20	1 20	1 9	1 28	23 14	0 16	17 45	0 42	23 34	0 11	21 51
M 18	19 23	28 34	5 5	14 55	1 9	2 37	1 26	0 55	1 29	23 13	0 16	17 45	0 42	23 34	0 11	21 52
T 19	19 37	27 57	4 59	15 29	1 3	2 54	1 31	0 41	1 29	23 12	0 16	17 45	0 43	23 34	0 11	21 52
W 20	19 51	25 48	4 38	16 2	0 56	3 12	1 36	0 27	1 29	23 11	0 16	17 45	0 43	23 34	0 11	21 52
T 21	20 4	22 25	4 3	16 35	0 49	3 31	1 41	0 13	1 29	23 10	0 16	17 45	0 43	23 35	0 11	21 52
F 22	20 17	18 7	3 18	17 8	0 42	3 49	1 45	0s 1	1 29	23 9	0 16	17 45	0 43	23 35	0 11	21 52
S 23	20 29	13 11	2 24	17 39	0 35	4 8	1 49	0 15	1 29	23 7	0 16	17 45	0 43	23 35	0 11	21 52
S 24	20 42	7 50	1 26	18 10	0 28	4 27	1 54	0 29	1 30	23 6	0 16	17 45	0 43	23 35	0 11	21 53
M 25	20 53	2 16	0 24	18 40	0 21	4 46	1 58	0 43	1 30	23 5	0 16	17 46	0 44	23 35	0 11	21 53
T 26	21 5	3s24	0s39	19 9	0 14	5 6	2 1	0 57	1 30	23 4	0 16	17 46	0 44	23 35	0 11	21 53
W 27	21 16	8 58	1 41	19 37	0 7	5 25	2 5	1 11	1 30	23 3	0 16	17 46	0 44	23 35	0 11	21 53
T 28	21 26	14 18	2 38	20 5	0 0	5 45	2 9	1 24	1 30	23 2	0 17	17 46	0 44	23 35	0 11	21 53
F 29	21 37	19 10	3 30	20 31	0s 7	6 5	2 12	1 38	1 30	23 0	0 17	17 47	0 44	23 36	0 11	21 53
S 30	21s46	23s18	4s12	20s57	0s13	6s26	2n15	1s52	1n31	22s59	0s17	17n47	0n45	23s36	0s11	21s54

Julian Day Number = 2324745.5, Delta T = 41.34 sec
Ecliptic obliquity = 23°29'13, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'41, Lahiri = 19°00'41Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1652
geocentric

DECEMBER 1652 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 41 46	9♂33'40	8♂26	4♂12	22♂51	8♂46	14♂37	12°R32	25♂40	20♂48	13°R 9	29°R 4	28♂ 0	0♂39	21♂11	S 1
M 2	4 45 43	10°34'39	21°27	5°46	23°54	9°21	14°49	12♂31	25°44	20°50	13♂ 7	28♂51	27°56	0°46	21°18	M 2
T 3	4 49 39	11°35'39	4♂41	7°20	24°57	9°55	15° 2	12°30	25°47	20°52	13° 6	28°38	27°53	0°52	21°25	T 3
W 4	4 53 36	12°36'39	18° 8	8°54	26° 0	10°30	15°15	12°29	25°51	20°55	13° 5	28°27	27°50	0°59	21°31	W 4
T 5	4 57 32	13°37'41	1♂44	10°28	27° 4	11° 5	15°28	12°28	25°54	20°57	13° 4	28°19	27°47	1° 6	21°38	T 5
F 6	5 1 29	14°38'43	15°29	12° 3	28° 8	11°40	15°41	12°26	25°58	20°59	13° 3	28°13	27°44	1°12	21°45	F 6
S 7	5 5 25	15°39'45	29°20	13°37	29°13	12°14	15°54	12°25	26° 1	21° 1	13° 2	28°10	27°40	1°19	21°51	S 7
S 8	5 9 22	16°40'48	13♂18	15°11	0♂17	12°49	16° 7	12°23	26° 5	21° 4	13° 0	28°D 9	27°37	1°26	21°58	S 8
M 9	5 13 18	17°41'52	27°22	16°45	1°22	13°24	16°20	12°21	26° 9	21° 6	12°59	28°R 9	27°34	1°32	22° 4	M 9
T 10	5 17 15	18°42'56	11♂32	18°20	2°28	13°58	16°34	12°20	26°12	21° 8	12°58	28° 9	27°31	1°39	22°10	T 10
W11	5 21 12	19°44'00	25°46	19°54	3°33	14°32	16°47	12°18	26°16	21°10	12°57	28° 7	27°28	1°45	22°17	W11
T 12	5 25 8	20°45'05	10♂ 1	21°29	4°39	15° 7	17° 0	12°16	26°19	21°13	12°56	28° 2	27°25	1°52	22°23	T 12
F 13	5 29 5	21°46'10	24°15	23° 4	5°45	15°41	17°14	12°13	26°23	21°15	12°55	27°54	27°21	1°59	22°29	F 13
S 14	5 33 1	22°47'15	8♂23	24°39	6°52	16°15	17°27	12°11	26°27	21°17	12°54	27°43	27°18	2° 5	22°35	S 14
S 15	5 36 58	23°48'21	22°20	26°14	7°58	16°49	17°41	12° 9	26°30	21°20	12°52	27°30	27°15	2°12	22°41	S 15
M16	5 40 54	24°49'28	6♂ 0	27°50	9° 5	17°23	17°54	12° 6	26°34	21°22	12°51	27°17	27°12	2°19	22°47	M16
T 17	5 44 51	25°50'35	19°21	29°25	10°12	17°58	18° 8	12° 4	26°38	21°24	12°50	27° 4	27° 9	2°25	22°52	T 17
W18	5 48 48	26°51'43	2♂20	1♂ 1	11°19	18°31	18°21	12° 1	26°41	21°26	12°49	26°54	27° 6	2°32	22°58	W18
T 19	5 52 44	27°52'51	14°58	2°37	12°27	19° 5	18°35	11°58	26°45	21°29	12°48	26°46	27° 2	2°39	23° 4	T 19
F 20	5 56 41	28°53'59	27°18	4°14	13°34	19°39	18°49	11°56	26°48	21°31	12°47	26°40	26°59	2°45	23° 9	F 20
S 21	6 0 37	29°55'08	9♂22	5°50	14°42	20°13	19° 2	11°53	26°52	21°33	12°46	26°38	26°56	2°52	23°14	S 21
S 22	6 4 34	0♂56'18	21°15	7°27	15°50	20°46	19°16	11°50	26°56	21°35	12°45	26°37	26°53	2°59	23°20	S 22
M23	6 8 30	1°57'28	3♂ 3	9° 4	16°59	21°20	19°30	11°47	26°59	21°38	12°43	26°37	26°50	3° 5	23°25	M23
T 24	6 12 27	2°58'39	14°51	10°41	18° 7	21°54	19°44	11°43	27° 3	21°40	12°42	26°36	26°46	3°12	23°30	T 24
W25	6 16 23	3°59'49	26°45	12°18	19°16	22°27	19°57	11°40	27° 6	21°42	12°41	26°35	26°43	3°19	23°35	W25
T 26	6 20 20	5° 1'01	8♂50	13°56	20°25	23° 0	20°11	11°37	27°10	21°44	12°40	26°30	26°40	3°25	23°40	T 26
F 27	6 24 17	6° 2'13	21°10	15°33	21°34	23°34	20°25	11°33	27°14	21°47	12°39	26°23	26°37	3°32	23°45	F 27
S 28	6 28 13	7° 3'25	3♂49	17°11	22°43	24° 7	20°39	11°30	27°17	21°49	12°38	26°14	26°34	3°38	23°49	S 28
S 29	6 32 10	8° 4'37	16°49	18°49	23°52	24°40	20°53	11°26	27°21	21°51	12°37	26° 2	26°31	3°45	23°54	S 29
M30	6 36 6	9° 5'49	0♂ 8	20°27	25° 2	25°13	21° 7	11°22	27°24	21°53	12°36	25°49	26°27	3°52	23°59	M30
T 31	6 40 3	10♂ 7'01	13♂46	22♂ 4	26♂11	25♂46	21♂21	11♂19	27♂28	21♂55	12♂35	25♂36	26♂24	3♂58	24♂ 3	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	decl lat
S 1	21s56	26s24	4s42	21s21	0s20	6s46	2n18	2s 5	1n31	22s58	0s17	17n48	0n45	23s36	0s11	21s54
M 2	22 5	28 11	4 59	21 45	0 26	7 7	2 21	2 19	1 31	22 56	0 17	17 48	0 45	23 36	0 11	21 54
T 3	22 13	28 24	5 0	22 7	0 33	7 27	2 23	2 33	1 31	22 55	0 17	17 48	0 45	23 36	0 11	21 54
W 4	22 21	26 57	4 44	22 29	0 39	7 48	2 26	2 46	1 31	22 54	0 17	17 49	0 45	23 36	0 11	21 54
T 5	22 29	23 54	4 12	22 49	0 46	8 9	2 28	3 0	1 31	22 52	0 17	17 49	0 45	23 36	0 11	21 54
F 6	22 36	19 30	3 25	23 8	0 52	8 30	2 30	3 13	1 31	22 51	0 17	17 50	0 46	23 36	0 11	21 55
S 7	22 43	14 0	2 26	23 26	0 58	8 51	2 32	3 26	1 32	22 49	0 17	17 51	0 46	23 37	0 11	21 55
S 8	22 49	7 46	1 18	23 43	1 3	9 12	2 34	3 40	1 32	22 48	0 17	17 51	0 46	23 37	0 11	21 55
M 9	22 55	1 7	0 4	23 58	1 9	9 33	2 35	3 53	1 32	22 46	0 17	17 52	0 46	23 37	0 11	21 55
T 10	23 0	5n39	1n10	24 12	1 14	9 54	2 37	4 6	1 32	22 45	0 17	17 53	0 46	23 37	0 11	21 55
W11	23 5	12 9	2 20	24 26	1 20	10 15	2 38	4 20	1 32	22 43	0 17	17 53	0 46	23 37	0 11	21 55
T 12	23 10	18 2	3 22	24 37	1 25	10 36	2 39	4 33	1 32	22 42	0 18	17 54	0 47	23 37	0 11	21 56
F 13	23 14	22 55	4 11	24 48	1 30	10 56	2 41	4 46	1 32	22 40	0 18	17 55	0 47	23 37	0 11	21 56
S 14	23 17	26 25	4 43	24 57	1 34	11 17	2 41	4 59	1 33	22 38	0 18	17 56	0 47	23 37	0 11	21 56
S 15	23 20	28 14	4 59	25 5	1 39	11 38	2 42	5 12	1 33	22 37	0 18	17 56	0 47	23 37	0 11	21 56
M16	23 23	28 17	4 57	25 11	1 43	11 59	2 43	5 25	1 33	22 35	0 18	17 57	0 47	23 38	0 11	21 56
T 17	23 25	26 40	4 38	25 16	1 47	12 19	2 43	5 38	1 33	22 33	0 18	17 58	0 47	23 38	0 11	21 56
W18	23 27	23 40	4 5	25 19	1 50	12 40	2 44	5 50	1 33	22 31	0 18	17 59	0 48	23 38	0 11	21 57
T 19	23 28	19 35	3 21	25 21	1 54	13 0	2 44	6 3	1 33	22 30	0 18	18 0	0 48	23 38	0 11	21 57
F 20	23 29	14 46	2 29	25 22	1 57	13 20	2 44	6 16	1 33	22 28	0 18	18 1	0 48	23 38	0 11	21 57
S 21	23 29	9 28	1 30	25 21	2 0	13 40	2 44	6 29	1 33	22 26	0 18	18 2	0 48	23 38	0 11	21 57
S 22	23 29	3 55	0 28	25 19	2 2	14 0	2 44	6 41	1 33	22 24	0 18	18 3	0 48	23 38	0 11	21 57
M23	23 28	1s44	0s34	25 15	2 4	14 20	2 43	6 54	1 33	22 22	0 18	18 4	0 48	23 38	0 11	21 57
T 24	23 27	7 19	1 35	25 9	2 6	14 39	2 43	7 6	1 34	22 20	0 19	18 5	0 49	23 38	0 11	21 57
W25	23 26	12 42	2 32	25 2	2 7	14 58	2 42	7 18	1 34	22 18	0 19	18 6	0 49	23 38	0 11	21 58
T 26	23 23	17 41	3 24	24 53	2 8	15 17	2 42	7 31	1 34	22 16	0 19	18 7	0 49	23 38	0 11	21 58
F 27	23 21	22 3	4 7	24 43	2 9	15 36	2 41	7 43	1 34	22 14	0 19	18 8	0 49	23 39	0 11	21 58
S 28	23 18	25 31	4 39	24 31	2 9	15 54	2 40	7 55	1 34	22 12	0 19	18 9	0 49	23 39	0 11	21 58
S 29	23 14	27 45	4 57	24 17	2 9	16 12	2 39	8 7	1 34	22 10	0 19	18 11	0 49	23 39	0 11	21 58
M30	23 10	28 29	5 0	24 2	2 8	16 30	2 38	8 19	1 34	22 8	0 19	18 12	0 50	23 39	0 11	21 58
T 31	23s 6	27s31	4s46	23s45	2s 6	16s48	2n37	8s31	1n34	22s 6	0s19	18n13	0n50	23s39	0s11	21s58

Julian Day Number = 2324775.5, Delta T = 41.28 sec
Ecliptic obliquity = 23°29'12, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°53'45, Lahiri = 19°00'45Greg. Calendar