



Astrodienst Ephemeris Tables for the year 1611

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 1611
geocentric

JANUARY 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	6 40 43	10♈18'39	6♏22	22♊57	26♋39	28♌43	20♍R50	20♎50	14♏R33	22♐R 6	2♑R 0	29♒R21	28♓43	5♈1	7♉11	S 1
S 2	6 44 39	11°19'48	21°10	24°24	27°32	29° 6	20♈42	20°56	14♉R31	22♊R 6	1♋59	29♌19	28°40	5° 7	7°17	S 2
M 3	6 48 36	12°20'57	5♊R33	25°52	28°24	29°31	20°34	21° 2	14°28	22° 5	1°59	29°17	28°37	5°14	7°23	M 3
T 4	6 52 32	13°22'06	19°30	27°20	29°15	29°55	20°26	21° 8	14°26	22° 5	1°59	29°16	28°33	5°21	7°29	T 4
W 5	6 56 29	14°23'15	2♋58	28°49	0♌5	0♍20	20°18	21°14	14°24	22° 5	1°59	29°15	28°30	5°27	7°35	W 5
T 6	7 0 25	15°24'24	16° 0	0♎18	0°55	0°45	20°10	21°21	14°22	22° 4	1°58	29°D15	28°27	5°34	7°41	T 6
F 7	7 4 22	16°25'33	28°40	1°48	1°44	1°10	20° 2	21°27	14°20	22° 4	1°58	29°15	28°24	5°41	7°47	F 7
S 8	7 8 19	17°26'42	11♏0	3°19	2°31	1°36	19°54	21°34	14°18	22° 3	1°58	29°16	28°21	5°47	7°52	S 8
S 9	7 12 15	18°27'51	23° 6	4°50	3°18	2° 2	19°46	21°40	14°16	22° 3	1°58	29°18	28°18	5°54	7°58	S 9
M10	7 16 12	19°28'59	5♊1	6°22	4° 4	2°28	19°38	21°47	14°14	22° 2	1°58	29°19	28°14	6° 1	8° 4	M10
T 11	7 20 8	20°30'07	16°51	7°54	4°49	2°54	19°30	21°53	14°12	22° 2	1°58	29°21	28°11	6° 7	8°10	T 11
W12	7 24 5	21°31'15	28°37	9°26	5°33	3°21	19°22	22° 0	14°10	22° 1	1°57	29°R21	28° 8	6°14	8°16	W12
T 13	7 28 1	22°32'22	10♈24	10°59	6°16	3°48	19°13	22° 6	14° 8	22° 0	1°57	29°21	28° 5	6°20	8°22	T 13
F 14	7 31 58	23°33'29	22°13	12°33	6°58	4°15	19° 5	22°13	14° 6	22° 0	1°57	29°19	28° 2	6°27	8°28	F 14
S 15	7 35 54	24°34'35	4♋8	14° 7	7°38	4°42	18°57	22°20	14° 5	21°59	1°57	29°16	27°58	6°34	8°34	S 15
S 16	7 39 51	25°35'41	16° 8	15°42	8°17	5°10	18°49	22°26	14° 3	21°58	1°D57	29°12	27°55	6°40	8°40	S 16
M17	7 43 48	26°36'45	28°17	17°18	8°55	5°38	18°41	22°33	14° 1	21°58	1°57	29° 7	27°52	6°47	8°45	M17
T 18	7 47 44	27°37'49	10♊36	18°54	9°32	6° 6	18°34	22°40	14° 0	21°57	1°57	29° 2	27°49	6°54	8°51	T 18
W19	7 51 41	28°38'52	23° 6	20°30	10° 7	6°34	18°26	22°47	13°58	21°56	1°57	28°57	27°46	7° 0	8°57	W19
T 20	7 55 37	29°39'53	5♌51	22° 7	10°41	7° 3	18°18	22°54	13°56	21°55	1°57	28°53	27°43	7° 7	9° 3	T 20
F 21	7 59 34	0♋40'53	18°52	23°45	11°14	7°32	18°10	23° 1	13°55	21°54	1°58	28°51	27°39	7°14	9° 8	F 21
S 22	8 3 30	1°41'53	2♊11	25°24	11°45	8° 0	18° 2	23° 7	13°53	21°53	1°58	28°D51	27°36	7°20	9°14	S 22
S 23	8 7 27	2°42'51	15°52	27° 3	12°14	8°30	17°55	23°14	13°52	21°52	1°58	28°51	27°33	7°27	9°20	S 23
M24	8 11 23	3°43'48	29°55	28°42	12°41	8°59	17°47	23°21	13°50	21°51	1°58	28°53	27°30	7°34	9°25	M24
T 25	8 15 20	4°44'43	14♉20	0♋23	13° 7	9°28	17°40	23°28	13°49	21°50	1°58	28°54	27°27	7°40	9°31	T 25
W26	8 19 17	5°45'38	29° 4	2° 4	13°31	9°58	17°33	23°35	13°48	21°49	1°58	28°R55	27°24	7°47	9°36	W26
T 27	8 23 13	6°46'31	14♊3	3°46	13°53	10°28	17°25	23°42	13°47	21°48	1°59	28°54	27°20	7°54	9°42	T 27
F 28	8 27 10	7°47'23	29° 9	5°28	14°13	10°58	17°18	23°50	13°45	21°47	1°59	28°51	27°17	8° 0	9°47	F 28
S 29	8 31 6	8°48'13	14♏12	7°12	14°31	11°28	17°11	23°57	13°44	21°46	1°59	28°46	27°14	8° 7	9°53	S 29
S 30	8 35 3	9°49'03	29° 4	8°56	14°48	11°58	17° 4	24° 4	13°43	21°45	1°59	28°40	27°11	8°13	9°58	S 30
M31	8 38 59	10♋49'51	13♊37	10♋40	15♊1	12♊29	16♈57	24♋11	13♉42	21♊44	2♊0	28♉33	27♉8	8♊20	10♊4	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	23s 5	21n49	3n11	23s15	0n 3	13s10	0s33	12n 2	1n 4	22n13	0n21	15s50	1s19	22n39	0n 3	4n17	1n14	3s19	16s29	23n29	23n29	23s58	17s13	6n 5										
S 2	23 0	18 25	4 10	23 27	0s 4	12 46	0 26	12 11	1 5	22 14	0 21	15 48	1 19	22 39	0 3	4 17	1 14	3 19	16 29	23 29	23 29	23 58	17 13	6 5										
M 3	22 55	13 59	4 50	23 37	0 12	12 21	0 19	12 21	1 6	22 16	0 21	15 46	1 19	22 38	0 3	4 17	1 15	3 18	16 29	23 29	23 29	23 59	17 13	6 5										
T 4	22 49	8 57	5 13	23 47	0 19	11 56	0 11	12 30	1 7	22 17	0 21	15 44	1 19	22 38	0 3	4 17	1 15	3 18	16 28	23 29	23 29	23 59	17 12	6 5										
W 5	22 43	3 39	5 16	23 55	0 26	11 31	0 4	12 40	1 8	22 18	0 22	15 42	1 19	22 38	0 3	4 18	1 15	3 18	16 28	23 29	23 29	24 0	17 12	6 5										
T 6	22 36	1s38	5 4	24 2	0 33	11 6	0n 4	12 50	1 8	22 20	0 22	15 40	1 19	22 38	0 3	4 18	1 15	3 18	16 28	23 29	23 29	24 1	17 11	6 5										
F 7	22 29	6 43	4 36	24 8	0 40	10 42	0 12	12 59	1 9	22 21	0 22	15 38	1 19	22 37	0 3	4 18	1 15	3 17	16 27	23 29	23 29	24 1	17 11	6 5										
S 8	22 21	11 24	3 57	24 13	0 46	10 17	0 20	13 9	1 10	22 22	0 22	15 35	1 19	22 37	0 3	4 18	1 15	3 17	16 27	23 29	23 29	24 2	17 10	6 6										
S 9	22 13	15 34	3 7	24 16	0 52	9 52	0 29	13 19	1 11	22 24	0 22	15 33	1 19	22 37	0 3	4 18	1 15	3 17	16 27	23 29	23 29	24 2	17 10	6 6										
M10	22 4 19	2 11	24 19	0 58	9 27	0 37	13 29	1 12	22 25	0 22	15 31	1 19	22 37	0 3	4 19	1 15	3 17	16 26	23 29	23 29	24 3	17 9	6 6											
T 11	21 55	21 42	1 9	24 20	1 4	9 3	0 46	13 38	1 13	22 26	0 22	15 29	1 19	22 36	0 3	4 19	1 15	3 16	16 26	23 29	23 29	24 4	17 9	6 6										
W12	21 46	23 25	0 4	24 19	1 10	8 38	0 55	13 48	1 13	22 28	0 22	15 27	1 19	22 36	0 3	4 19	1 15	3 16	16 26	23 29	23 29	24 4	17 8	6 6										
T 13	21 36	24 5	1s 1	24 17	1 16	8 14	1 5	13 58	1 14	22 29	0 23	15 25	1 19	22 36	0 3	4 20	1 15	3 16	16 25	23 29	23 29	24 5	17 8	6 6										
F 14	21 26	23 40	2 3	24 14	1 21	7 49	1 14	14 8	1 15	22 30	0 23	15 23	1 19	22 36	0 3	4 20	1 15	3 15	16 25	23 29	23 29	24 5	17 7	6 6										
S 15	21 15	22 11	3 0	24 10	1 26	7 25	1 24	14 18	1 15	22 31	0 23	15 20	1 19	22 36	0 3	4 20	1 15	3 15	16 24	23 29	23 28	24 6	17 7	6 7										
S 16	21 4 19	41 3	50 24 4	1 31	7 1	1 34	14 28	1 16	22 33	0 23	15 18	1 19	22 35	0 3	4 20	1 15	3 15	16 24	23 29	23 28	24 6	17 6	6 7											
M17	20 53	16 18	4 29	23 56	1 35	6 38	1 44	14 38	1 17	22 34	0 23	15 16	1 19	22 35	0 3	4 21	1 15	3 14	16 24	23 29	23 28	24 7	17 6	6 7										
T 18	20 41	12 11	4 57	23 48	1 39	6 14	1 55	14 48	1 17	22 35	0 23	15 14	1 19	22 35	0 3	4 21	1 15	3 14	16 23	23 29	23 28	24 7	17 5	6 7										
W19	20 28	7 30	5 11	23 37	1 43	5 51	2 5	14 58	1 18	22 36	0 23	15 12	1 19	22 35	0 3	4 22	1 15	3 14	16 23	23 29	23 28	24 8	17 5	6 7										
T 20	20 16	2 26	5 11	23 25	1 47	5 28	2 16	15 8	1 18	22 37	0 23	15 9	1 19	22 35	0 3	4 22	1 15	3 13	16 23	23 29	23 28	24 8	17 4	6 8										
F 21	20 3	2n52	4 54	23 12	1 50	5 6	2 27	15 18	1 19	22 39	0 24	15 7	1 19	22 34	0 3	4 22	1 15	3 13	16 22	23 29	23 28	24 9	17 3	6 8										
S 22	19 49	8 10	4 22	22 57	1 53	4 44	2 39	15 28	1 20	22 40	0 24	15 5	1 19	22 34	0 3	4 23	1 15	3 13	16 22	23 29	23 28	24 9	17 3	6 8										
S 23	19 36	13 13	3 34	22 41	1 56	4 22	2 50	15 38	1 20	22 41	0 24	15 3	1 19	22 34	0 3	4 23	1 15	3 12	16 22	23 29	23 28	24 10	17 2	6 8										
M24	19 22	17 42	2 32	22 23	1 58	4 1	3 2	15 48	1 21	22 42	0 24	15 0	1 19	22 34	0 3	4 24	1 16	3 12	16 21	23 29	23 28	24 10	17 2	6 9										
T 25	19 7 21	16 1	19 22	4 2	0 3	40 3	14 15	58 1	21 22	43 0	24 14	58 1	19 22	34 0	3 4	24 1	16 3	11 16	21 23	29 23	28 24	11 17	1 6	9										
W26	18 52	23 30	0n 1	21 43	2 2	3 20	3 26	16 8	1 22	22 44	0 24	14 56	1 19	22 34	0 3	4 24	1 16	3 11	16 21	23 29	23 28	24 11	17 0	6 9										
T 27	18 37	24 6	1 22	21 21	2 3	3 0	3 38	16 17	1 22	22 45	0 24	14 53	1 19	22 34	0 3	4 25	1 16	3 11	16 20	23 29	23 28	24 12	17 0	6 9										
F 28	18 22	22 56	2 37	20 57	2 4	2 41	3 50	16 27	1 23	22 46	0 24	14 51	1 19	22 33	0 3	4 25	1 16	3 10	16 20	23 29	23 28	24 12	16 59	6 10										
S 29	18 6	20 8	3 41	20 31	2 4	2 22	4 3	16 37	1 23	22 47	0 24	14 49	1 19	22 33	0 3	4 26	1 16	3 10	16 19	23 29	23 28	24 13	16 58	6 10										
S 30	17 50	16 2	4 30	20 4	2 4	2 4	4 15	16 47	1 23	22 48	0 25	14 46	1 19	22 33	0 3	4 26	1 16	3 9	16 19	23 29	23 28	24 13	16 58	6 10										
M31	17s33	11n 3	4n59	19s35	2s 4	1s47	4n28	16n57	1n24	22n49	0n25	14s44	1s19	22n33	0n 3	4n27	1n16	3s 9	16s19	23n29	23n28	24s14	16s57	6n11										

ASTRODIENST EPHEMERIS for the year 1611

geocentric

FEBRUARY 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 42 56	11°50'38	27°44	12°26	15°13	13°0	16°R51	24°18	13°R41	21°R43	2°0	28°R27	27°II 4	8°27	10°9	T 1
W 2	8 46 53	12°51'24	11°22	14°12	15°23	13°30	16°244	24°25	13°II40	21°42	2°1	28°II21	27°1	8°33	10°14	W 2
T 3	8 50 49	13°52'09	24°32	15°59	15°30	14°1	16°38	24°32	13°39	21°40	2°1	28°17	26°58	8°40	10°20	T 3
F 4	8 54 46	14°52'54	7°16	17°46	15°35	14°32	16°31	24°40	13°38	21°39	2°1	28°15	26°55	8°47	10°25	F 4
S 5	8 58 42	15°53'37	19°38	19°35	15°37	15°3	16°25	24°47	13°37	21°38	2°2	28°D15	26°52	8°53	10°30	S 5
S 6	9 2 39	16°54'19	1°43	21°23	15°R37	15°35	16°19	24°54	13°36	21°37	2°2	28°16	26°49	9°0	10°35	S 6
M 7	9 6 35	17°55'00	13°37	23°13	15°35	16°6	16°13	25°1	13°36	21°35	2°3	28°17	26°45	9°7	10°40	M 7
T 8	9 10 32	18°55'39	25°24	25°3	15°30	16°38	16°7	25°8	13°35	21°34	2°3	28°R18	26°42	9°13	10°45	T 8
W 9	9 14 28	19°56'18	7°310	26°53	15°23	17°10	16°2	25°16	13°34	21°33	2°4	28°18	26°39	9°20	10°50	W 9
T 10	9 18 25	20°56'55	18°58	28°43	15°13	17°41	15°56	25°23	13°34	21°31	2°4	28°15	26°36	9°27	10°55	T 10
F 11	9 22 22	21°57'31	0°52	0°34	15°0	18°13	15°51	25°30	13°33	21°30	2°5	28°10	26°33	9°33	11°0	F 11
S 12	9 26 18	22°58'05	12°55	2°25	14°46	18°45	15°46	25°38	13°33	21°29	2°5	28°3	26°30	9°40	11°5	S 12
S 13	9 30 15	23°58'38	25°7	4°15	14°28	19°18	15°41	25°45	13°32	21°27	2°6	27°53	26°26	9°47	11°10	S 13
M14	9 34 11	24°59'10	7°31	6°5	14°9	19°50	15°36	25°52	13°32	21°26	2°7	27°43	26°23	9°53	11°15	M14
T 15	9 38 8	25°59'39	20°7	7°54	13°46	20°22	15°31	25°59	13°32	21°24	2°7	27°31	26°20	10°0	11°20	T 15
W16	9 42 4	27°0'07	2°54	9°42	13°22	20°55	15°27	26°7	13°32	21°23	2°8	27°21	26°17	10°6	11°24	W16
T 17	9 46 1	28°0'33	15°52	11°29	12°56	21°28	15°22	26°14	13°31	21°21	2°8	27°12	26°14	10°13	11°29	T 17
F 18	9 49 57	29°0'57	29°4	13°14	12°27	22°0	15°18	26°21	13°31	21°20	2°9	27°6	26°10	10°20	11°34	F 18
S 19	9 53 54	0°1'19	12°28	14°56	11°57	22°33	15°14	26°28	13°31	21°18	2°10	27°2	26°7	10°26	11°38	S 19
S 20	9 57 50	1°1'39	26°5	16°36	11°25	23°6	15°11	26°36	13°D31	21°17	2°11	27°D 0	26°4	10°33	11°43	S 20
M21	10 1 47	2°1'57	9°II58	18°13	10°51	23°39	15°7	26°43	13°31	21°15	2°11	27°0	26°1	10°40	11°47	M21
T 22	10 5 44	3°2'14	24°6	19°45	10°17	24°12	15°4	26°50	13°31	21°14	2°12	27°R 1	25°58	10°46	11°51	T 22
W23	10 9 40	4°2'28	8°28	21°14	9°41	24°45	15°0	26°57	13°31	21°12	2°13	27°0	25°55	10°53	11°56	W23
T 24	10 13 37	5°2'40	23°3	22°37	9°4	25°19	14°57	27°5	13°31	21°11	2°14	26°58	25°51	11°0	12°0	T 24
F 25	10 17 33	6°2'50	7°45	23°55	8°27	25°52	14°55	27°12	13°32	21°9	2°15	26°53	25°48	11°6	12°4	F 25
S 26	10 21 30	7°2'58	22°29	25°6	7°49	26°25	14°52	27°19	13°32	21°7	2°15	26°45	25°45	11°13	12°8	S 26
S 27	10 25 26	8°3'04	7°7	26°11	7°11	26°59	14°49	27°26	13°32	21°6	2°16	26°35	25°42	11°20	12°12	S 27
M28	10 29 23	9°3'08	21°31	27°8	6°34	27°33	14°47	27°34	13°II33	21°4	2°17	26°II23	25°II39	11°26	12°16	M28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	17s16	5n38	5n10	19s 5	2s 3	1s31	4n41	17n 7	1n24	22n50	0n25	14s42	1s19	22n33	0n 3	4n27
W 2	16 59 0	7 5 2	18 33	2 2	1 15	4 54	17 16	1 25	22 51	0 25	14 39	1 19	22 33	0 4	4 28	1 16
T 3	16 42	5s13	4 38	17 59	2 0	1 0	5 7	17 26	1 25	22 52	0 25	14 37	1 19	22 33	0 4	4 28
F 4	16 24	10 10	4 1	17 24	1 58	0 46	5 20	17 36	1 25	22 53	0 25	14 34	1 19	22 33	0 4	4 29
S 5	16 6	14 34	3 14	16 48	1 55	0 33	5 33	17 45	1 26	22 54	0 25	14 32	1 19	22 32	0 4	4 29
S 6	15 48	18 17	2 19	16 10	1 51	0 21	5 46	17 55	1 26	22 54	0 25	14 30	1 19	22 32	0 4	4 30
M 7	15 30	21 11	1 19	15 30	1 47	0 10	5 59	18 4	1 26	22 55	0 25	14 27	1 19	22 32	0 4	4 30
T 8	15 11	23 9	0 16	14 49	1 43	0 0	6 12	18 14	1 27	22 56	0 25	14 25	1 19	22 32	0 4	4 31
W 9	14 52	24 5	0s48	14 7	1 38	0n 8	6 25	18 23	1 27	22 57	0 25	14 22	1 19	22 32	0 4	4 31
T 10	14 33	23 57	1 49	13 23	1 32	0 16	6 37	18 32	1 27	22 58	0 26	14 20	1 20	22 32	0 4	4 32
F 11	14 13	22 42	2 46	12 38	1 26	0 23	6 49	18 42	1 27	22 58	0 26	14 18	1 20	22 32	0 4	4 33
S 12	13 53	20 25	3 36	11 51	1 18	0 28	7 1	18 51	1 28	22 59	0 26	14 15	1 20	22 32	0 4	4 33
S 13	13 33	17 12	4 17	11 4	1 11	0 32	7 13	19 0	1 28	23 0	0 26	14 13	1 20	22 32	0 4	4 34
M14	13 13	13 11	4 46	10 16	1 2	0 35	7 24	19 9	1 28	23 0	0 26	14 10	1 20	22 32	0 4	4 34
T 15	12 53	8 33	5 2	9 27	0 53	0 36	7 35	19 18	1 28	23 1	0 26	14 8	1 20	22 32	0 4	4 35
W16	12 32	3 29	5 3	8 37	0 43	0 37	7 45	19 27	1 29	23 1	0 26	14 6	1 20	22 32	0 4	4 36
T 17	12 11	1n49	4 49	7 47	0 33	0 36	7 55	19 36	1 29	23 2	0 26	14 3	1 20	22 32	0 4	4 36
F 18	11 50	7 8	4 19	6 57	0 22	0 33	8 4	19 44	1 29	23 2	0 26	14 1	1 20	22 32	0 4	4 37
S 19	11 29	12 12	3 34	6 6	0 10	0 29	8 12	19 53	1 29	23 3	0 26	13 58	1 20	22 32	0 4	4 37
S 20	11 8	16 46	2 37	5 16	0n 2	0 24	8 20	20 2	1 29	23 3	0 26	13 56	1 20	22 32	0 4	4 38
M21	10 46	20 31	1 30	4 27	0 15	0 18	8 26	20 10	1 30	23 4	0 26	13 53	1 20	22 32	0 4	4 39
T 22	10 25	23 6	0 16	3 38	0 28	0 11	8 32	20 19	1 30	23 4	0 26	13 51	1 20	22 32	0 4	4 39
W23	10 3	24 14	1n 1	2 51	0 42	0 2	8 37	20 27	1 30	23 5	0 26	13 49	1 20	22 32	0 4	4 40
T 24	9 41	23 43	2 14	2 5	0 56	0s 8	8 41	20 35	1 30	23 5	0 26	13 46	1 20	22 32	0 4	4 41
F 25	9 19	21 34	3 19	1 21	1 10	0 19	8 44	20 44	1 30	23 6	0 26	13 44	1 20	22 32	0 4	4 41
S 26	8 56	17 59	4 10	0 40	1 24	0 30	8 46	20 52	1 30	23 6	0 27	13 41	1 21	22 32	0 4	4 42
S 27	8 34	13 19	4 45	0 1	1 39	0 43	8 48	21 0	1 31	23 6	0 27	13 39	1 21	22 32	0 4	4 43
M28	8s12	7n58	5n 1	0n35	1n53	0s57	8n48	21n 7	1n31	23n 7	0n27	13s37	1s21	22n32	0n 4	4n43

Julian Day Number = 2309496.5, Delta T = 75.48 sec

Ecliptic obliquity = 23°29'24, Nutation = - 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°18'44, Lahiri = 18°25'45Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1611

geocentric

MARCH 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 33 19	10° 3'10	5° 35'	27° 57'	5° 56'	28° 8'	14° 45'	27° 41'	13° 33'	21° 18'	2° 18'	26° 12'	25° 35'	11° 33'	12° 20'	T 1
W 2	10 37 16	11° 3'10	19° 14'	28° 39'	5° 58'	28° 40'	14° 43'	27° 48'	13° 34'	21° 19'	2° 19'	26° 12'	25° 32'	11° 40'	12° 24'	W 2
T 3	10 41 13	12° 3'09	2° 17'	29° 11'	4° 44'	29° 14'	14° 41'	27° 55'	13° 34'	20° 59'	2° 20'	25° 54'	25° 29'	11° 46'	12° 28'	T 3
F 4	10 45 9	13° 3'06	15° 15'	29° 36'	4° 10'	29° 48'	14° 40'	28° 2'	13° 35'	20° 58'	2° 21'	25° 48'	25° 26'	11° 53'	12° 32'	F 4
S 5	10 49 6	14° 3'02	27° 41'	29° 51'	3° 37'	0° 21'	14° 39'	28° 9'	13° 35'	20° 56'	2° 22'	25° 45'	25° 23'	12° 0'	12° 36'	S 5
S 6	10 53 2	15° 2'56	9° 49'	29° 57'	3° 6'	0° 55'	14° 38'	28° 16'	13° 36'	20° 54'	2° 23'	25° 44'	25° 20'	12° 6'	12° 39'	S 6
M 7	10 56 59	16° 2'48	21° 45'	29° 54'	2° 36'	1° 30'	14° 37'	28° 23'	13° 37'	20° 53'	2° 24'	25° 44'	25° 16'	12° 13'	12° 43'	M 7
T 8	11 0 55	17° 2'38	3° 33'	29° 43'	2° 9'	2° 4'	14° 36'	28° 30'	13° 38'	20° 51'	2° 25'	25° 44'	25° 13'	12° 19'	12° 46'	T 8
W 9	11 4 52	18° 2'27	15° 20'	29° 24'	1° 43'	2° 38'	14° 35'	28° 37'	13° 39'	20° 49'	2° 26'	25° 43'	25° 10'	12° 26'	12° 50'	W 9
T 10	11 8 48	19° 2'14	27° 11'	28° 57'	1° 20'	3° 12'	14° 35'	28° 44'	13° 39'	20° 48'	2° 27'	25° 39'	25° 7'	12° 33'	12° 53'	T 10
F 11	11 12 45	20° 1'59	9° 10'	28° 24'	0° 59'	3° 46'	14° 35'	28° 51'	13° 40'	20° 46'	2° 28'	25° 33'	25° 4'	12° 39'	12° 56'	F 11
S 12	11 16 42	21° 1'43	21° 20'	27° 44'	0° 40'	4° 21'	14° 35'	28° 58'	13° 41'	20° 44'	2° 29'	25° 24'	25° 1'	12° 46'	13° 0'	S 12
S 13	11 20 38	22° 1'24	3° 45'	26° 59'	0° 23'	4° 55'	14° 35'	29° 5'	13° 43'	20° 43'	2° 30'	25° 12'	24° 57'	12° 53'	13° 3'	S 13
M14	11 24 35	23° 1'03	16° 24'	26° 10'	0° 9'	5° 30'	14° 36'	29° 12'	13° 44'	20° 41'	2° 31'	24° 59'	24° 54'	12° 59'	13° 6'	M14
T 15	11 28 31	24° 0'41	29° 19'	25° 18'	29° 58'	6° 4'	14° 36'	29° 19'	13° 45'	20° 39'	2° 32'	24° 46'	24° 51'	13° 6'	13° 9'	T 15
W16	11 32 28	25° 0'16	12° 28'	24° 24'	29° 49'	6° 39'	14° 37'	29° 26'	13° 46'	20° 38'	2° 33'	24° 33'	24° 48'	13° 13'	13° 12'	W16
T 17	11 36 24	25° 59'49	25° 49'	23° 29'	29° 42'	7° 13'	14° 38'	29° 33'	13° 47'	20° 36'	2° 34'	24° 22'	24° 45'	13° 19'	13° 15'	T 17
F 18	11 40 21	26° 59'20	9° 21'	22° 35'	29° 38'	7° 48'	14° 39'	29° 39'	13° 49'	20° 34'	2° 35'	24° 13'	24° 41'	13° 26'	13° 18'	F 18
S 19	11 44 17	27° 58'49	23° 1'	21° 43'	29° 36'	8° 23'	14° 41'	29° 46'	13° 50'	20° 33'	2° 37'	24° 8'	24° 38'	13° 33'	13° 20'	S 19
S 20	11 48 14	28° 58'16	6° 50'	20° 53'	29° 37'	8° 58'	14° 42'	29° 53'	13° 51'	20° 31'	2° 38'	24° 5'	24° 35'	13° 39'	13° 23'	S 20
M21	11 52 11	29° 57'40	20° 45'	20° 7'	29° 39'	9° 33'	14° 44'	29° 59'	13° 53'	20° 29'	2° 39'	24° 5'	24° 32'	13° 46'	13° 26'	M21
T 22	11 56 7	0° 57'02	4° 48'	19° 24'	29° 45'	10° 7'	14° 46'	0° 6'	13° 54'	20° 28'	2° 40'	24° 5'	24° 29'	13° 53'	13° 28'	T 22
W23	12 0 4	1° 56'22	18° 57'	18° 47'	29° 52'	10° 42'	14° 48'	0° 13'	13° 56'	20° 26'	2° 41'	24° 4'	24° 26'	13° 59'	13° 30'	W23
T 24	12 4 0	2° 55'39	3° 12'	18° 14'	0° 8'	11° 17'	14° 51'	0° 19'	13° 58'	20° 25'	2° 43'	24° 1'	24° 22'	14° 6'	13° 33'	T 24
F 25	12 7 57	3° 54'54	17° 29'	17° 47'	0° 14'	11° 52'	14° 53'	0° 26'	13° 59'	20° 23'	2° 44'	23° 56'	24° 19'	14° 13'	13° 35'	F 25
S 26	12 11 53	4° 54'06	1° 46'	17° 26'	0° 28'	12° 27'	14° 56'	0° 32'	14° 1'	20° 21'	2° 45'	23° 48'	24° 16'	14° 19'	13° 37'	S 26
S 27	12 15 50	5° 53'16	15° 58'	17° 10'	0° 44'	13° 2'	14° 59'	0° 38'	14° 3'	20° 20'	2° 46'	23° 38'	24° 13'	14° 26'	13° 39'	S 27
M28	12 19 46	6° 52'24	29° 59'	17° 0'	1° 2'	13° 38'	15° 2'	0° 45'	14° 5'	20° 18'	2° 47'	23° 26'	24° 10'	14° 33'	13° 41'	M28
T 29	12 23 43	7° 51'30	13° 46'	16° 55'	1° 21'	14° 13'	15° 5'	0° 51'	14° 6'	20° 17'	2° 49'	23° 14'	24° 7'	14° 39'	13° 43'	T 29
W30	12 27 39	8° 50'34	27° 13'	16° 56'	1° 43'	14° 48'	15° 9'	0° 57'	14° 8'	20° 15'	2° 50'	23° 3'	24° 3'	14° 46'	13° 45'	W30
T 31	12 31 36	9° 49'36	10° 19'	17° 3'	2° 7'	15° 23'	15° 12'	1° 4'	14° 10'	20° 14'	2° 51'	22° 55'	24° 0'	14° 52'	13° 47'	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	7s49	2n20	4n58	1n 7	2n 7	1s11	8n47	21n15	1n31	23n 7	0n27	13s34	1s21	22n32	0n 4	4n44	1n17	2s54	16s 9	23n26	23n25	24s24	16s34	6n22			
W 2	7 26	3s16	4 38	1 36	2 20	1 26	8 45	21 23	1 31	23 7	0 27	13 32	1 21	22 32	0 4	4 45	1 17	2 54	16 9	23 26	23 25	24 24	16 34	6 23			
T 3	7 3	8 33	4 3	2 1	2 33	1 41	8 42	21 30	1 31	23 7	0 27	13 29	1 21	22 32	0 4	4 45	1 17	2 53	16 9	23 26	23 25	24 25	16 33	6 23			
F 4	6 40	13 18	3 17	2 22	2 45	1 57	8 38	21 38	1 31	23 8	0 27	13 27	1 21	22 32	0 4	4 46	1 17	2 52	16 9	23 25	23 25	24 25	16 32	6 24			
S 5	6 17	17 22	2 23	2 38	2 56	2 13	8 34	21 45	1 31	23 8	0 27	13 25	1 21	22 32	0 4	4 47	1 17	2 52	16 8	23 25	23 25	24 25	16 31	6 24			
S 6	5 54	20 36	1 23	2 50	3 7	2 29	8 28	21 52	1 31	23 8	0 27	13 22	1 21	22 33	0 4	4 47	1 17	2 51	16 8	23 25	23 24	24 25	16 30	6 25			
M 7	5 31	22 53	0 21	2 57	3 16	2 45	8 22	22 0	1 31	23 8	0 27	13 20	1 21	22 33	0 4	4 48	1 17	2 51	16 8	23 25	23 24	24 25	16 29	6 25			
T 8	5 8	24 8	0s41	3 0	3 23	3 1	8 15	22 7	1 31	23 8	0 27	13 17	1 21	22 33	0 4	4 49	1 17	2 50	16 8	23 25	23 24	24 26	16 29	6 26			
W 9	4 44	24 18	1 42	2 57	3 29	3 17	8 8	22 13	1 31	23 8	0 27	13 15	1 22	22 33	0 4	4 49	1 17	2 50	16 7	23 25	23 24	24 26	16 28	6 26			
T 10	4 21	23 21	2 38	2 51	3 33	3 33	7 59	22 20	1 31	23 8	0 27	13 13	1 22	22 33	0 4	4 50	1 17	2 49	16 7	23 25	23 24	24 26	16 27	6 27			
F 11	3 57	21 21	3 28	2 40	3 36	3 48	7 51	22 27	1 32	23 8	0 27	13 10	1 22	22 33	0 4	4 51	1 17	2 49	16 7	23 25	23 24	24 26	16 26	6 27			
S 12	3 34	18 21	4 9	2 24	3 36	4 4	7 41	22 33	1 32	23 8	0 27	13 8	1 22	22 33	0 4	4 51	1 17	2 48	16 7	23 25	23 24	24 27	16 25	6 28			
S 13	3 10	14 29	4 40	2 5	3 35	4 19	7 32	22 40	1 32	23 8	0 27	13 6	1 22	22 33	0 4	4 52	1 17	2 47	16 6	23 24	23 24	24 27	16 24	6 28			
M14	2 47	9 56	4 57	1 43	3 32	4 33	7 21	22 46	1 32	23 8	0 27	13 3	1 22	22 34	0 4	4 53	1 17	2 47	16 6	23 24	23 24	24 27	16 24	6 29			
T 15	2 23	4 50	4 59	1 17	3 27	4 47	7 11	22 52	1 32	23 8	0 27	13 1	1 22	22 34	0 4	4 53	1 17	2 46	16 6	23 23	23 23	24 27	16 23	6 29			
W16	1 59	0n33	4 46	0 50	3 20	5 0	7 0	22 58	1 32	23 8	0 27	12 59	1 22	22 34	0 4	4 54	1 17	2 46	16 6	23 23	23 23	24 27	16 22	6 30			
T 17	1 36	6 1	4 17	0 20	3 11	5 13	6 49	23 4	1 32	23 8	0 27	12 57	1 22	22 34	0 4	4 55	1 17	2 45	16 5	23 22	23 23	24 27	16 21	6 30			
F 18	1 12	11 16	3 33	0s11	3 1	5 25	6 37	23 10	1 32	23 8	0 27	12 54	1 23	22 34	0 4	4 55	1 17	2 45	16 5	23 22	23 23	24 28	16 20	6 31			
S 19	0 48	16 3	2 36	0 42	2 49	5 36	6 26	23 16	1 32	23 8	0 27	12 52	1 23	22 34	0 4	4 56	1 17	2 44	16 5	23 22	23 23	24 28	16 20	6 32			
S 20	0 25	20 1	1 30	1 13	2 37	5 47	6 14	23 21	1 32	23 8	0 27	12 50	1 23	22 34	0 4	4 56	1 17	2 43	16 5	23 21	23 23	24 28	16 19	6 32			
M21	0 1	22 52	0 18	1 44	2 23	5 57	6 3	23 26	1 32	23 8	0 27	12 48	1 23	22 35	0 4	4 57	1 17	2 43	16 5	23 21	23 23	24 28	16 18	6 33			
T 22	0n23	24 21	0n56	2 14	2 8	6 6	5 51	23 32	1 32	23 7	0 27	12 45	1 23	22 35	0 4	4 58	1 17	2 42	16 4	23 21	23 22	24 28	16 17	6 33			
W23	0 46	24 15	2 8	2 43	1 53	6 15	5 39	23 37	1 32	23 7	0 27	12 43	1 23	22 35	0 4	4 58	1 17	2 42	16 4	23 21	23 22	24 28	16 16	6 34			
T 24	1 10	22 35	3 11	3 10	1 38	6 23	5 27	23 42	1 32	23 7	0 27	12 41	1 23	22 35	0 4	4 59	1 17	2 41	16 4	23 21	23 22	24 28	16 15	6 34			
F 25	1 34	19 29	4 3	3 35	1 22	6 30	5 15	23 46	1 32	23 7	0 28	12 39	1 23	22 35	0 4	5 0	1 17	2 41	16 4	23 21	23 22	24 29	16 15	6 35			
S 26	1 57	15 13	4 39	3 38	1 6	6 36	5 3	23 51	1 32	23 6	0 28	12 37	1 24	22 36	0 4	5 0	1 17	2 40	16 4	23 21	23 22	24 29	16 14	6 36			
S 27	2 21	10 7	4 58	4 18	0 51	6 41	4 52	23 56	1 32	23 6	0 28	12 34	1 24	22 36	0 4	5 1	1 17	2 39	16 4	23 20	23 22	24 29	16 13	6 36			
M28	2 44	4 34	4 59	4 36	0 35	6 46	4 40	24 0	1 32	23 6	0 28	12 32	1 24	22 36	0 4	5 2	1 17	2 39	16 3	23 20	23 22	24 29	16 12	6 37			
T 29	3 7	1s 6	4 42	4 52	0 20	6 50	4 28	24 4	1 31	23 6	0 28	12 30	1 24	22 36	0 4	5 2	1 17	2 38	16 3	23 19	23 22	24 29	16 11	6 37			
W30	3 31	6 37	4 10	5 5	0 6	6 53	4 17	24 8	1 31	23 5	0 28	12 28	1 24	22 37	0 4	5 3	1 17	2 38	16 3	23 18	23 21	24 29	16 11	6 38			
T 31	3n54	11s42	3n25	5s15	0s 9	6s55	4n 6	24n12	1n31	23n 5	0n28	12s26	1s24	22n37	0n 4	5n 3	1n17	2s37	16s 3	23n18	23n21	24s29	16s10	6n39			

ASTRODIENST EPHEMERIS for the year 1611

geocentric

APRIL 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 35 33	10°48'36	23°41' 4	17°15	2°32	15°58	15°56	1°10	14°12	20°12	2°52	22°48	23°57	14°59	13°49	F 1
S 2	12 39 29	11°47'35	5°29	17°31	2°59	16°34	15°20	1°16	14°14	20°10	2°54	22°45	23°54	15° 6	13°50	S 2
S 3	12 43 26	12°46'31	17°38	17°53	3°27	17° 9	15°24	1°22	14°16	20° 9	2°55	22°44	23°51	15°12	13°52	S 3
M 4	12 47 22	13°45'26	29°35	18°19	3°57	17°44	15°28	1°28	14°18	20° 7	2°56	22°44	23°47	15°19	13°53	M 4
T 5	12 51 19	14°44'19	11°35	18°50	4°29	18°20	15°33	1°34	14°20	20° 6	2°58	22°44	23°44	15°26	13°55	T 5
W 6	12 55 15	15°43'10	23°14	19°25	5° 2	18°55	15°38	1°40	14°23	20° 4	2°59	22°44	23°41	15°32	13°56	W 6
T 7	12 59 12	16°41'59	5° 7	20° 4	5°36	19°31	15°42	1°46	14°25	20° 3	3° 0	22°42	23°38	15°39	13°57	T 7
F 8	13 3 8	17°40'47	17° 9	20°46	6°11	20° 6	15°47	1°52	14°27	20° 2	3° 2	22°38	23°35	15°46	13°59	F 8
S 9	13 7 5	18°39'33	29°24	21°32	6°48	20°42	15°52	1°57	14°29	20° 0	3° 3	22°32	23°32	15°52	14° 0	S 9
S 10	13 11 2	19°38'17	11°56	22°22	7°26	21°17	15°58	2° 3	14°32	19°59	3° 4	22°23	23°28	15°59	14° 1	S 10
M 11	13 14 58	20°36'59	24°48	23°15	8° 5	21°53	16° 3	2° 9	14°34	19°57	3° 6	22°13	23°25	16° 6	14° 2	M 11
T 12	13 18 55	21°35'40	7°58	24°11	8°46	22°29	16° 9	2°14	14°37	19°56	3° 7	22° 2	23°22	16°12	14° 2	T 12
W 13	13 22 51	22°34'18	21°27	25°10	9°27	23° 4	16°15	2°20	14°39	19°55	3° 8	21°52	23°19	16°19	14° 3	W 13
T 14	13 26 48	23°32'55	5°12	26°11	10° 9	23°40	16°20	2°25	14°42	19°53	3°10	21°44	23°16	16°26	14° 4	T 14
F 15	13 30 44	24°31'29	19° 9	27°16	10°53	24°16	16°26	2°31	14°44	19°52	3°11	21°37	23°12	16°32	14° 4	F 15
S 16	13 34 41	25°30'02	3°14	28°23	11°37	24°51	16°33	2°36	14°47	19°51	3°12	21°34	23° 9	16°39	14° 5	S 16
S 17	13 38 37	26°28'32	17°25	29°32	12°22	25°27	16°39	2°41	14°49	19°49	3°14	21°D32	23° 6	16°46	14° 5	S 17
M 18	13 42 34	27°27'01	1°36	0°44	13° 8	26° 3	16°46	2°47	14°52	19°48	3°15	21°32	23° 3	16°52	14° 6	M 18
T 19	13 46 31	28°25'27	15°48	1°58	13°55	26°39	16°52	2°52	14°55	19°47	3°16	21°33	23° 0	16°59	14° 6	T 19
W 20	13 50 27	29°23'51	29°57	3°15	14°43	27°15	16°59	2°57	14°57	19°46	3°18	21°R34	22°57	17° 6	14° 6	W 20
T 21	13 54 24	0°22'13	14°12	4°33	15°31	27°50	17° 6	3° 2	15° 0	19°45	3°19	21°33	22°53	17°12	14°R 6	T 21
F 22	13 58 20	1°20'33	28° 3	5°54	16°20	28°26	17°13	3° 7	15° 3	19°43	3°21	21°30	22°50	17°19	14° 6	F 22
S 23	14 2 17	2°18'51	11°17	7°17	17°10	29° 2	17°20	3°12	15° 6	19°42	3°22	21°25	22°47	17°26	14° 6	S 23
S 24	14 6 13	3°17'06	25°42	8°42	18° 1	29°38	17°28	3°16	15° 8	19°41	3°23	21°18	22°44	17°32	14° 6	S 24
M 25	14 10 10	4°15'20	9°17	10° 9	18°52	0°51	17°35	3°21	15°11	19°40	3°25	21°11	22°41	17°39	14° 6	M 25
T 26	14 14 6	5°13'31	22°38	11°38	19°44	0°50	17°43	3°26	15°14	19°39	3°26	21° 3	22°38	17°46	14° 5	T 26
W 27	14 18 3	6°11'41	5°14	13° 9	20°36	1°26	17°50	3°30	15°17	19°38	3°27	20°56	22°34	17°52	14° 5	W 27
T 28	14 22 0	7° 9'49	18°34	14°42	21°30	2° 2	17°58	3°35	15°20	19°37	3°29	20°50	22°31	17°59	14° 4	T 28
F 29	14 25 56	8° 7'56	1° 7	16°16	22°23	2°38	18° 6	3°39	15°23	19°36	3°30	20°46	22°28	18° 6	14° 4	F 29
S 30	14 29 53	9° 6'01	13°26	17°53	23°17	3°51	18°51	3°44	15°26	19°35	3°32	20°II44	22°II25	18°12	14° 3	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	4n17	16s 9	2n31	5s23	0s22	6s57	3n54	24n16	1n31	23n 4	0n28	12s24	1s24	22n37	0n 4	6n39
S 2	4 40	19 47	1 30	5 29	0 35	6 58	3 43	24 19	1 31	23 4	0 28	12 22	1 25	22 37	0 4	6 40
S 3	5 3	22 28	0 27	5 32	0 48	6 58	3 32	24 23	1 31	23 3	0 28	12 20	1 25	22 38	0 4	6 40
M 4	5 26	24 6	0s36	5 33	1 0	6 57	3 21	24 26	1 31	23 3	0 28	12 18	1 25	22 38	0 4	6 41
T 5	5 49	24 37	1 38	5 31	1 11	6 56	3 11	24 29	1 31	23 3	0 28	12 16	1 25	22 38	0 4	6 42
W 6	6 12	24 2	2 35	5 27	1 22	6 54	3 0	24 32	1 31	23 2	0 28	12 14	1 25	22 38	0 4	6 42
T 7	6 35	22 21	3 26	5 21	1 32	6 51	2 50	24 35	1 31	23 1	0 28	12 12	1 25	22 39	0 4	6 43
F 8	6 57	19 40	4 8	5 13	1 42	6 47	2 40	24 38	1 31	23 1	0 28	12 10	1 25	22 39	0 4	6 43
S 9	7 20	16 4	4 40	5 3	1 50	6 43	2 30	24 40	1 31	23 0	0 28	12 8	1 26	22 39	0 4	6 44
S 10	7 42	11 42	4 59	4 51	1 58	6 38	2 20	24 43	1 31	23 0	0 28	12 6	1 26	22 39	0 4	6 45
M 11	8 4	6 43	5 4	4 37	2 6	6 32	2 10	24 45	1 30	22 59	0 28	12 4	1 26	22 40	0 4	6 45
T 12	8 26	1 19	4 52	4 21	2 13	6 26	2 1	24 47	1 30	22 58	0 28	12 2	1 26	22 40	0 4	6 46
W 13	8 48	4n17	4 25	4 3	2 19	6 19	1 51	24 49	1 30	22 58	0 28	12 0	1 26	22 40	0 4	6 46
T 14	9 10	9 48	3 42	3 44	2 25	6 12	1 42	24 50	1 30	22 57	0 28	11 59	1 26	22 41	0 4	6 47
F 15	9 31	14 55	2 44	3 23	2 30	6 4	1 33	24 52	1 30	22 56	0 28	11 57	1 27	22 41	0 4	6 48
S 16	9 53	19 16	1 37	3 0	2 34	5 55	1 25	24 53	1 30	22 56	0 28	11 55	1 27	22 41	0 4	6 48
S 17	10 14	22 32	0 22	2 36	2 38	5 46	1 16	24 55	1 30	22 55	0 28	11 53	1 27	22 41	0 4	6 49
M 18	10 35	24 23	0n54	2 10	2 41	5 36	1 8	24 56	1 30	22 54	0 28	11 52	1 27	22 42	0 4	6 50
T 19	10 56	24 39	2 7	1 43	2 43	5 25	0 59	24 56	1 30	22 53	0 28	11 50	1 27	22 42	0 4	6 50
W 20	11 17	23 19	3 11	1 14	2 45	5 15	0 51	24 57	1 29	22 52	0 28	11 48	1 27	22 42	0 4	6 51
T 21	11 38	20 33	4 4	0 44	2 47	5 3	0 44	24 58	1 29	22 52	0 28	11 47	1 28	22 43	0 4	6 51
F 22	11 58	16 35	4 42	0 13	2 47	4 51	0 36	24 58	1 29	22 51	0 28	11 45	1 28	22 43	0 4	6 52
S 23	12 18	11 46	5 3	0n20	2 48	4 38	0 28	24 58	1 29	22 50	0 28	11 43	1 28	22 43	0 4	6 53
S 24	12 38	6 24	5 6	0 54	2 47	4 25	0 21	24 58	1 29	22 49	0 28	11 42	1 28	22 44	0 4	6 53
M 25	12 58	0 48	4 52	1 29	2 46	4 12	0 14	24 58	1 29	22 48	0 28	11 40	1 28	22 44	0 4	6 54
T 26	13 17	4s46	4 22	2 5	2 45	3 58	0 7	24 58	1 29	22 47	0 28	11 39	1 29	22 44	0 4	6 54
W 27	13 37	10 1	3 39	2 42	2 43	3 44	0 0	24 57	1 29	22 46	0 28	11 37	1 29	22 45	0 4	6 55
T 28	13 56	14 44	2 45	3 21	2 40	3 29	0s 6	24 57	1 28	22 45	0 28	11 36	1 29	22 45	0 4	6 56
F 29	14 15	18 44	1 44	4 0	2 37	3 13	0 13	24 56	1 28	22 44	0 28	11 34	1 29	22 45	0 4	6 56
S 30	14n34	21s48	0n40	4n40	2s33	2s58	0s19	24n55	1n28	22n43	0n28	11s33	1s29	22n46	0n 4	6n57

Julian Day Number = 2309555.5, Delta T = 75.31 sec

Ecliptic obliquity = 23°29'25, Nutation = - 0°00'18, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°18'53, Lahiri = 18°25'53Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1611

geocentric

MAY 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	14 33 49	10♈ 4'04	25♊ 32	19♋ 32	24♌ 12	3♍ 50	18♎ 22	3♏ 48	15♐ 29	19♑ 34	3♒ 33	20♓ 44	22♈ 22	18♉ 19	14♊ 2	S 1
M 2	14 37 46	11° 2'06	7♋ 28	21° 12	25° 7	4° 26	18° 31	3° 52	15° 32	19♌ 33	3° 34	20♍ 45	22° 18	18° 26	14♎ 2	M 2
T 3	14 41 42	12° 0'07	19° 18	22° 55	26° 3	5° 2	18° 39	3° 56	15° 35	19° 32	3° 36	20° 47	22° 15	18° 32	14° 1	T 3
W 4	14 45 39	12° 58'06	1♌ 8	24° 39	27° 0	5° 38	18° 48	4° 0	15° 38	19° 31	3° 37	20° 48	22° 12	18° 39	14° 0	W 4
T 5	14 49 35	13° 56'04	13° 1	26° 26	27° 56	6° 15	18° 57	4° 4	15° 42	19° 31	3° 38	20° 49	22° 9	18° 45	13° 59	T 5
F 6	14 53 32	14° 54'00	25° 4	28° 14	28° 53	6° 51	19° 5	4° 8	15° 45	19° 30	3° 40	20° 48	22° 6	18° 52	13° 58	F 6
S 7	14 57 29	15° 51'55	7♌ 20	0♈ 4	29° 51	7° 27	19° 14	4° 12	15° 48	19° 29	3° 41	20° 46	22° 3	18° 59	13° 56	S 7
S 8	15 1 25	16° 49'49	19° 55	1° 57	0♋ 49	8° 3	19° 23	4° 16	15° 51	19° 28	3° 42	20° 43	21° 59	19° 5	13° 55	S 8
M 9	15 5 22	17° 47'41	2♋ 51	3° 51	1° 47	8° 39	19° 33	4° 20	15° 54	19° 28	3° 44	20° 38	21° 56	19° 12	13° 54	M 9
T 10	15 9 18	18° 45'33	16° 9	5° 47	2° 46	9° 16	19° 42	4° 23	15° 58	19° 27	3° 45	20° 33	21° 53	19° 19	13° 52	T 10
W 11	15 13 15	19° 43'23	29° 51	7° 45	3° 45	9° 52	19° 51	4° 27	16° 1	19° 26	3° 46	20° 29	21° 50	19° 25	13° 51	W 11
T 12	15 17 11	20° 41'11	13♋ 53	9° 45	4° 45	10° 28	20° 1	4° 30	16° 4	19° 26	3° 48	20° 24	21° 47	19° 32	13° 49	T 12
F 13	15 21 8	21° 38'59	28° 13	11° 46	5° 45	11° 4	20° 10	4° 33	16° 7	19° 25	3° 49	20° 22	21° 44	19° 39	13° 48	F 13
S 14	15 25 4	22° 36'45	12♌ 43	13° 49	6° 45	11° 41	20° 20	4° 37	16° 11	19° 24	3° 50	20° 20	21° 40	19° 45	13° 46	S 14
S 15	15 29 1	23° 34'29	27° 19	15° 54	7° 45	12° 17	20° 30	4° 40	16° 14	19° 24	3° 52	20° 20	21° 37	19° 52	13° 44	S 15
M 16	15 32 58	24° 32'12	11♍ 55	18° 1	8° 46	12° 53	20° 40	4° 43	16° 18	19° 23	3° 53	20° 21	21° 34	19° 59	13° 42	M 16
T 17	15 36 54	25° 29'54	26° 25	20° 9	9° 47	13° 30	20° 50	4° 46	16° 21	19° 23	3° 54	20° 23	21° 31	20° 5	13° 40	T 17
W 18	15 40 51	26° 27'34	10♎ 45	22° 18	10° 49	14° 6	21° 0	4° 49	16° 24	19° 23	3° 56	20° 24	21° 28	20° 12	13° 38	W 18
T 19	15 44 47	27° 25'12	24° 54	22° 28	11° 50	14° 43	21° 10	4° 51	16° 28	19° 22	3° 57	20° 24	21° 24	20° 19	13° 36	T 19
F 20	15 48 44	28° 22'49	8♎ 49	26° 39	12° 52	15° 19	21° 20	4° 54	16° 31	19° 22	3° 58	20° 24	21° 21	20° 25	13° 34	F 20
S 21	15 52 40	29° 20'24	22° 30	28° 50	13° 54	15° 56	21° 30	4° 57	16° 35	19° 21	3° 59	20° 23	21° 18	20° 32	13° 32	S 21
S 22	15 56 37	0♐ 17'57	5♌ 56	1♐ 2	14° 57	16° 32	21° 41	4° 59	16° 38	19° 21	4° 1	20° 21	21° 15	20° 39	13° 30	S 22
M 23	16 0 33	1° 15'30	19° 8	3° 14	15° 59	17° 8	21° 51	5° 2	16° 41	19° 21	4° 2	20° 18	21° 12	20° 45	13° 27	M 23
T 24	16 4 30	2° 13'00	2♌ 5	5° 25	17° 2	17° 45	22° 2	5° 4	16° 45	19° 21	4° 3	20° 15	21° 9	20° 52	13° 25	T 24
W 25	16 8 27	3° 10'30	14° 49	7° 37	18° 5	18° 21	22° 12	5° 6	16° 48	19° 20	4° 4	20° 13	21° 5	20° 59	13° 22	W 25
T 26	16 12 23	4° 7'59	27° 20	9° 47	19° 9	18° 58	22° 23	5° 8	16° 52	19° 20	4° 5	20° 11	21° 2	21° 5	13° 20	T 26
F 27	16 16 20	5° 5'26	9♊ 39	11° 56	20° 12	19° 34	22° 34	5° 10	16° 55	19° 20	4° 7	20° 10	20° 59	21° 12	13° 17	F 27
S 28	16 20 16	6° 2'53	21° 47	14° 5	21° 16	20° 11	22° 45	5° 12	16° 59	19° 20	4° 8	20° 10	20° 56	21° 19	13° 15	S 28
S 29	16 24 13	7° 0'19	3♋ 46	16° 11	22° 20	20° 48	22° 56	5° 14	17° 2	19° 20	4° 9	20° 10	20° 53	21° 25	13° 12	S 29
M 30	16 28 9	7° 57'44	15° 39	18° 16	23° 25	21° 24	23° 7	5° 16	17° 6	19° 20	4° 10	20° 11	20° 50	21° 32	13° 9	M 30
T 31	16 32 6	8♐ 55'08	27♋ 29	20♐ 19	24♋ 29	22♌ 1	23♎ 18	5♏ 17	17♐ 10	19° 20	4° 11	20° 12	20° 46	21° 39	13° 6	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	decl	lat	
S 1	14n52	23s51	0s26	5n22	2s29	2s42	0s25	24n54	1n28	22n42	0n28	11s31	1s30	22n46	0n 4	5n18	1n16	2s22	16s 1	23n10	23n16	24s28	15s50	6n57										
M 2	15 10	24 46	1 30	6 4	2 24	2 25	0 31	24 53	1 28	22 41	0 28	11 30	1 30	22 46	0 4	5 19	1 16	2 22	16 1	23 10	23 16	24 28	15 49	6 58										
T 3	15 28	24 34	2 29	6 47	2 19	2 8	0 37	24 51	1 28	22 39	0 28	11 29	1 30	22 47	0 4	5 19	1 16	2 21	16 1	23 10	23 16	24 28	15 49	6 59										
W 4	15 46	23 14	3 22	7 31	2 13	1 51	0 43	24 50	1 27	22 38	0 28	11 27	1 30	22 47	0 4	5 19	1 16	2 21	16 1	23 10	23 16	24 28	15 48	6 59										
T 5	16 3	20 53	4 7	8 15	2 7	1 33	0 48	24 48	1 27	22 37	0 28	11 26	1 30	22 47	0 4	5 20	1 16	2 20	16 1	23 10	23 15	24 28	15 48	7 0										
F 6	16 20	17 36	4 41	9 0	2 0	1 15	0 53	24 46	1 27	22 36	0 28	11 25	1 31	22 48	0 4	5 20	1 16	2 20	16 1	23 10	23 15	24 28	15 47	7 0										
S 7	16 37	13 31	5 4	9 46	1 53	0 57	0 58	24 44	1 27	22 35	0 29	11 24	1 31	22 48	0 4	5 20	1 16	2 20	16 1	23 10	23 15	24 27	15 47	7 1										
S 8	16 54	8 47	5 12	10 32	1 45	0 39	1 3	24 41	1 27	22 33	0 29	11 23	1 31	22 48	0 4	5 21	1 16	2 19	16 1	23 10	23 15	24 27	15 46	7 1										
M 9	17 10	3 32	5 5	11 19	1 37	0 20	1 8	24 39	1 27	22 32	0 29	11 21	1 31	22 49	0 4	5 21	1 16	2 19	16 1	23 10	23 15	24 27	15 46	7 2										
T 10	17 26	2n 2	4 42	12 5	1 28	0 1	1 13	24 36	1 26	22 31	0 29	11 20	1 31	22 49	0 4	5 21	1 16	2 18	16 1	23 9	23 14	24 27	15 46	7 2										
W 11	17 42	7 40	4 2	12 52	1 19	0n19	1 17	24 33	1 26	22 29	0 29	11 19	1 32	22 49	0 4	5 21	1 16	2 18	16 1	23 9	23 14	24 27	15 45	7 3										
T 12	17 58	13 4	3 7	13 40	1 10	0 39	1 22	24 30	1 26	22 28	0 29	11 18	1 32	22 50	0 4	5 22	1 16	2 18	16 1	23 9	23 14	24 26	15 45	7 4										
F 13	18 13	17 53	1 58	14 27	1 0	0 59	1 26	24 27	1 26	22 27	0 29	11 17	1 32	22 50	0 4	5 22	1 16	2 17	16 1	23 8	23 14	24 26	15 44	7 4										
S 14	18 28	21 41	0 42	15 13	0 50	1 19	1 30	24 24	1 26	22 25	0 29	11 16	1 32	22 50	0 4	5 22	1 16	2 17	16 2	23 8	23 14	24 26	15 44	7 5										
S 15	18 42	24 6	0n38	16 0	0 40	1 39	1 34	24 20	1 25	22 24	0 29	11 15	1 32	22 51	0 4	5 22	1 16	2 17	16 2	23 8	23 13	24 26	15 44	7 5										
M 16	18 57	24 53	1 56	16 45	0 30	2 0	1 37	24 17	1 25	22 22	0 29	11 14	1 33	22 51	0 4	5 22	1 16	2 16	16 2	23 8	23 13	24 26	15 43	7 6										
T 17	19 11	23 57	3 6	17 31	0 19	2 20	1 41	24 13	1 25	22 21	0 29	11 13	1 33	22 51	0 4	5 22	1 16	2 16	16 2	23 8	23 13	24 25	15 43	7 6										
W 18	19 24	21 28	4 3	18 15	0 9	2 41	1 44	24 9	1 25	22 19	0 29	11 13	1 33	22 52	0 4	5 23	1 16	2 16	16 2	23 8	23 13	24 25	15 43	7 7										
T 19	19 38	17 43	4 44	18 57	0n 2	3 2	1 47	24 5	1 25	22 18	0 29	11 12	1 33	22 52	0 4	5 23	1 16	2 15	16 2	23 9	23 13	24 25	15 43	7 7										
F 20	19 50	13 2	5 9	19 39	0 13	3 24	1 51	24 0	1 24	22 16	0 29	11 11	1 33	22 53	0 4	5 23	1 16	2 15	16 2	23 9	23 12	24 25	15 42	7 8										
S 21	20 3	7 48	5 15	20 19	0 23	3 45	1 53	23 56	1 24	22 15	0 29	11 10	1 34	22 53	0 4	5 23	1 16	2 15	16 2	23 8	23 12	24 24	15 42	7 8										
S 22	20 15	2 17	5 3	20 57	0 33	4 7	1 56	23 51	1 24	22 13	0 29	11 10	1 34	22 53	0 4	5 23	1 16	2 15	16 2	23 8	23 12	24 24	15 42	7 9										
M 23	20 27	3s15	4 36	21 33	0 43	4 28	1 59	23 46	1 24	22 11	0 29	11 9	1 34	22 54	0 4	5 23	1 16	2 14	16 2	23 8	23 12	24 24	15 41	7 9										
T 24	20 39	8 32	3 55	22 7	0 53	4 50	2 2	23 41	1 24	22 10	0 29	11 8	1 34	22 54	0 4	5 23	1 16	2 14	16 3	23 8	23 12	24 24	15 41	7 10										
W 25	20 50	13 24	3 3	22 39	1 2	5 12	2 4	23 36	1 23	22 8	0 29	11 8	1 35	22 54	0 4	5 23	1 16	2 14	16 3	23 8	23 11	24 23	15 41	7 10										
T 26	21 1	17 37	2 3	23 8	1 11	5 34	2 6	23 31	1 23	22 6	0 29	11 7	1 35	22 55	0 4	5 23	1 16	2 14	16 3	23 8	23 11	24 23	15 41	7 10										
F 27	21 12	20 59	0 58	23 34	1 19	5 56	2 8	23 26	1 23	22 5	0 29	11 6	1 35	22 55	0 4	5 23	1 16	2 13	16 3	23 7	23 11	24 23	15 41	7 11										
S 28	21 22	23 23	0s 9	23 58	1 27	6 18	2 10	23 20	1 23	22 3	0 29	11 6	1 35	22 55	0 4	5 23	1 15	2 13	16 3	23 7	23 11	24 22	15 40	7 11										
S 29	21 32	24 41	1 15	24 19	1 34	6 40	2 12	23 14	1 22	22 1	0 29	11 6	1 35	22 56	0 4	5 23	1 15	2 13	16 3	23 8	23 11	24 22	15 40	7 12										
M 30	21 41	24 50	2 17	24 38	1 40	7 2	2 14	23 8	1 22	21 59	0 29	11 5	1 36	22 56	0 4	5 23	1 15	2 13	16 4	23 8	23 10	24 22	15 40	7 12										
T 31	21n50	23s51	3s12	24n53	1n45	7n24	2s16	23n 2	1n22	21n57	0n29	11s 5	1s36	22n56	0n 4	5n23	1n15	2s12	16s 4	23n 8	23n10	24s21	15s40	7n13										

ASTRODIENST EPHEMERIS for the year 1611

geocentric

JUNE 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 36 2	9II52'31	9♂18	22II21	25Y34	22♂37	23♂29	5♂19	17II13	19♂20	4♂13	20II13	20II43	21♂45	13°R 4	W 1
T 2	16 39 59	10°49'54	21°12	24°20	26°39	23°14	23°41	5°20	17°17	19°20	4°14	20°14	20°40	21°52	13°R 1	T 2
F 3	16 43 56	11°47'16	3♂15	26°16	27°44	23°51	23°52	5°22	17°20	19°20	4°15	20°15	20°37	21°59	12°58	F 3
S 4	16 47 52	12°44'37	15°30	28°11	28°49	24°27	24° 3	5°23	17°24	19°20	4°16	20°R15	20°34	22° 5	12°55	S 4
S 5	16 51 49	13°41'58	28° 3	0♂ 3	29°54	25° 4	24°15	5°24	17°27	19°20	4°17	20°15	20°30	22°12	12°52	S 5
M 6	16 55 45	14°39'18	10Y57	1°53	1♂ 0	25°41	24°26	5°25	17°31	19°20	4°18	20°14	20°27	22°19	12°49	M 6
T 7	16 59 42	15°36'38	24°15	3°40	2° 5	26°17	24°38	5°26	17°34	19°20	4°19	20°14	20°24	22°25	12°45	T 7
W 8	17 3 38	16°33'58	7♂59	5°25	3°11	26°54	24°50	5°27	17°38	19°21	4°20	20°13	20°21	22°32	12°42	W 8
T 9	17 7 35	17°31'17	22° 8	7° 8	4°17	27°31	25° 2	5°28	17°42	19°21	4°21	20°13	20°18	22°39	12°39	T 9
F 10	17 11 31	18°28'36	6II39	8°48	5°24	28° 8	25°13	5°29	17°45	19°21	4°22	20°13	20°15	22°45	12°36	F 10
S 11	17 15 28	19°25'54	21°26	10°25	6°30	28°44	25°25	5°29	17°49	19°22	4°23	20°D13	20°11	22°52	12°32	S 11
S 12	17 19 25	20°23'12	6♂24	12° 0	7°36	29°21	25°37	5°30	17°52	19°22	4°24	20°R13	20° 8	22°59	12°29	S 12
M13	17 23 21	21°20'29	21°23	13°32	8°43	29°58	25°49	5°30	17°56	19°22	4°25	20°13	20° 5	23° 5	12°26	M13
T 14	17 27 18	22°17'45	6♂15	15° 2	9°50	0♂135	26° 1	5°30	17°59	19°23	4°26	20°12	20° 2	23°12	12°22	T 14
W15	17 31 14	23°15'01	20°54	16°29	10°56	1°12	26°13	5°31	18° 3	19°23	4°27	20°12	19°59	23°19	12°19	W15
T 16	17 35 11	24°12'16	5♂15	17°53	12° 3	1°49	26°25	5°R31	18° 7	19°24	4°28	20°12	19°56	23°25	12°15	T 16
F 17	17 39 7	25° 9'30	19°14	19°15	13°11	2°25	26°38	5°31	18°10	19°24	4°29	20°D12	19°52	23°32	12°12	F 17
S 18	17 43 4	26° 6'43	2♂52	20°34	14°18	3° 2	26°50	5°30	18°14	19°25	4°30	20°12	19°49	23°39	12° 8	S 18
S 19	17 47 1	27° 3'56	16° 8	21°51	15°25	3°39	27° 2	5°30	18°17	19°25	4°31	20°12	19°46	23°45	12° 5	S 19
M20	17 50 57	28° 1'08	20° 6	23° 4	16°33	4°16	27°14	5°30	18°21	19°26	4°32	20°13	19°43	23°52	12° 1	M20
T 21	17 54 54	28°58'20	11♂46	24°15	17°40	4°53	27°27	5°30	18°24	19°27	4°33	20°13	19°40	23°59	11°58	T 21
W22	17 58 50	29°55'31	24°13	25°23	18°48	5°30	27°39	5°29	18°28	19°27	4°34	20°14	19°36	24° 5	11°54	W22
T 23	18 2 47	0♂52'42	6♂27	26°28	19°56	6° 7	27°52	5°28	18°31	19°28	4°35	20°15	19°33	24°12	11°50	T 23
F 24	18 6 43	1°49'53	18°32	27°29	21° 4	6°44	28° 4	5°28	18°35	19°29	4°35	20°R15	19°30	24°19	11°47	F 24
S 25	18 10 40	2°47'03	0♂31	28°28	22°12	7°21	28°17	5°27	18°38	19°30	4°36	20°15	19°27	24°25	11°43	S 25
S 26	18 14 36	3°44'14	12°24	29°23	23°20	7°58	28°29	5°26	18°42	19°30	4°37	20°14	19°24	24°32	11°39	S 26
M27	18 18 33	4°41'24	24°14	0♂15	24°28	8°35	28°42	5°25	18°45	19°31	4°38	20°13	19°21	24°39	11°35	M27
T 28	18 22 30	5°38'34	6♂ 3	1° 4	25°36	9°12	28°55	5°24	18°49	19°32	4°39	20°11	19°17	24°45	11°32	T 28
W29	18 26 26	6°35'45	17°55	1°49	26°45	9°49	29° 7	5°23	18°52	19°33	4°39	20° 8	19°14	24°52	11°28	W29
T 30	18 30 23	7♂32'55	29♂50	2♂130	27♂54	10♂126	29♂20	5♂21	18II56	19♂34	4♂40	20II 6	19II11	24♂59	11♂24	T 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	21n59	21s49	4s 0	25n 6	1n50	7n47	2s17	22n56	1n22	21n55	0n29	11s 4	1s36	22n57	0n 4	5n23	1n15	2s12	16s 4	23n 8	23n10	24s21	15s40	7n13	
T 2	22 7	18 50	4 38	25 17	1 55	8 9	2 18	22 50	1 22	21 53	0 29	11 4	1 36	22 57	0 4	5 23	1 15	2 12	16 4	23 8	23 10	24 21	15 40	7 13	
F 3	22 15	15 3	5 3	25 24	1 58	8 31	2 20	22 43	1 21	21 52	0 29	11 4	1 37	22 57	0 4	5 23	1 15	2 12	16 4	23 8	23 9	24 20	15 40	7 14	
S 4	22 22	10 35	5 16	25 29	2 1	8 53	2 21	22 36	1 21	21 50	0 29	11 3	1 37	22 58	0 4	5 23	1 15	2 12	16 4	23 8	23 9	24 20	15 40	7 14	
S 5	22 30	5 35	5 14	25 32	2 3	9 15	2 22	22 29	1 21	21 48	0 29	11 3	1 37	22 58	0 4	5 23	1 15	2 11	16 5	23 8	23 9	24 20	15 39	7 14	
M 6	22 36	0 13	4 57	25 32	2 4	9 37	2 22	22 22	1 21	21 46	0 29	11 3	1 37	22 58	0 4	5 23	1 15	2 11	16 5	23 8	23 9	24 19	15 39	7 15	
T 7	22 43	5n20	4 23	25 31	2 4	9 59	2 23	22 15	1 20	21 44	0 30	11 3	1 38	22 59	0 4	5 23	1 15	2 11	16 5	23 8	23 9	24 19	15 39	7 15	
W 8	22 49	10 50	3 34	25 27	2 4	10 21	2 24	22 8	1 20	21 42	0 30	11 3	1 38	22 59	0 4	5 23	1 15	2 11	16 5	23 8	23 8	24 19	15 39	7 16	
T 9	22 54	15 56	2 30	25 21	2 3	10 43	2 24	22 0	1 20	21 39	0 30	11 3	1 38	23 0	0 4	5 23	1 15	2 11	16 5	23 8	23 8	24 18	15 39	7 16	
F 10	22 59	20 14	1 15	25 13	2 1	11 4	2 25	21 53	1 20	21 37	0 30	11 3	1 38	23 0	0 4	5 22	1 15	2 11	16 6	23 8	23 8	24 18	15 39	7 16	
S 11	23 4	23 20	0n 7	25 3	1 59	11 26	2 25	21 45	1 19	21 35	0 30	11 3	1 38	23 0	0 4	5 22	1 15	2 11	16 6	23 8	23 8	24 17	15 39	7 16	
S 12	23 8	24 49	1 29	24 52	1 55	11 47	2 25	21 37	1 19	21 33	0 30	11 3	1 39	23 1	0 4	5 22	1 15	2 10	16 6	23 8	23 7	24 17	15 39	7 17	
M13	23 12	24 30	2 45	24 39	1 51	12 9	2 25	21 29	1 19	21 31	0 30	11 3	1 39	23 1	0 4	5 22	1 15	2 10	16 6	23 8	23 7	24 17	15 39	7 17	
T 14	23 16	22 26	3 49	24 25	1 47	12 30	2 25	21 21	1 19	21 29	0 30	11 3	1 39	23 1	0 4	5 22	1 15	2 10	16 6	23 8	23 7	24 16	15 39	7 17	
W15	23 19	18 56	4 37	24 9	1 42	12 51	2 25	21 13	1 18	21 26	0 30	11 3	1 39	23 2	0 4	5 21	1 15	2 10	16 7	23 8	23 7	24 16	15 39	7 18	
T 16	23 22	14 21	5 7	23 52	1 36	13 11	2 25	21 4	1 18	21 24	0 30	11 3	1 40	23 2	0 4	5 21	1 15	2 10	16 7	23 8	23 6	24 15	15 39	7 18	
F 17	23 24	9 8	5 17	23 35	1 29	13 32	2 24	20 55	1 18	21 22	0 30	11 3	1 40	23 2	0 4	5 21	1 15	2 10	16 7	23 8	23 6	24 15	15 39	7 18	
S 18	23 26	3 36	5 10	23 16	1 22	13 52	2 24	20 47	1 18	21 20	0 30	11 4	1 40	23 2	0 4	5 21	1 15	2 10	16 7	23 8	23 6	24 14	15 40	7 18	
S 19	23 27	1s58	4 46	22 56	1 14	14 13	2 23	20 38	1 17	21 17	0 30	11 4	1 40	23 3	0 4	5 20	1 15	2 10	16 8	23 8	23 6	24 14	15 40	7 18	
M20	23 29	7 19	4 7	22 36	1 6	14 32	2 23	20 29	1 17	21 15	0 30	11 4	1 41	23 3	0 4	5 20	1 15	2 10	16 8	23 8	23 5	24 14	15 40	7 19	
T 21	23 29	12 16	3 18	22 15	0 57	14 52	2 22	20 20	1 17	21 12	0 30	11 5	1 41	23 3	0 5	5 20	1 15	2 10	16 8	23 8	23 5	24 13	15 40	7 19	
W22	23 29	16 37	2 19	21 53	0 48	15 12	2 21	20 10	1 17	21 10	0 30	11 5	1 41	23 4	0 5	5 20	1 15	2 10	16 8	23 8	23 5	24 13	15 40	7 19	
T 23	23 29	20 11	1 16	21 31	0 38	15 31	2 20	20 1	1 16	21 8	0 30	11 6	1 41	23 4	0 5	5 19	1 15	2 10	16 9	23 8	23 5	24 12	15 40	7 19	
F 24	23 29	22 50	0 9	21 9	0 27	15 50	2 19	19 51	1 16	21 5	0 30	11 6	1 41	23 4	0 5	5 19	1 15	2 10	16 9	23 8	23 4	24 12	15 40	7 19	
S 25	23 28	24 26	0s57	20 46	0 16	16 8	2 18	19 42	1 16	21 3	0 30	11 7	1 42	23 5	0 5	5 19	1 15	2 10	16 9	23 8	23 4	24 11	15 40	7 20	
S 26	23 26	24 54	2 0	20 24	0 4	16 27	2 17	19 32	1 15	21 0	0 30	11 7	1 42	23 5	0 5	5 18	1 15	2 10	16 9	23 8	23 4	24 11	15 41	7 20	
M27	23 24	24 13	2 57	20 1	0s 8	16 44	2 15	19 22	1 15	20 58	0 30	11 8	1 42	23 5	0 5	5 18	1 14	2 10	16 10	23 8	23 4	24 10	15 41	7 20	
T 28	23 22	22 28	3 47	19 38	0 20	17 2	2 14	19 12	1 15	20 55	0 31	11 8	1 42	23 6	0 5	5 18	1 14	2 10	16 10	23 8	23 3	24 10	15 41	7 20	
W29	23 20	19 44	4 27	19 16	0 33	17 19	2 12	19 1	1 15	20 53	0 31	11 9	1 43	23 6	0 5	5 17	1 14	2 10	16 10	23 7	23 3	24 9	15 41	7 20	
T 30	23n16	16s10	4s56	18n53	0s46	17n36	2s11	18n51	1n14	20n50	0n31	11s10	1s43	23n 6	0n 5	5n17	1n14	2s10	16s10	23n 7	23n 3	24s 9	15s41	7n20	

ASTRODIENST EPHEMERIS for the year 1611
geocentric

JULY 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 34 19	8°30'06	11°54	3°07	29°08	11°04	29°33	5°R20	18°II59	19°mp35	4°841	20°R 3	19°II 8	25°35	11°R21	F 1
S 2	18 38 16	9°27'17	24° 9	3°40	0°II11	11°41	29°46	5°H19	19° 2	19°36	4°41	20°II 2	19° 5	25°12	11°317	S 2
S 3	18 42 12	10°24'29	6°V40	4°10	1°20	12°18	29°58	5°17	19° 6	19°37	4°42	20°D 1	19° 2	25°19	11°13	S 3
M 4	18 46 9	11°21'41	19°30	4°35	2°29	12°55	0°II11	5°15	19° 9	19°38	4°43	20° 1	18°58	25°25	11° 9	M 4
T 5	18 50 5	12°18'53	2°B42	4°55	3°38	13°32	0°24	5°14	19°13	19°39	4°43	20° 2	18°55	25°32	11° 6	T 5
W 6	18 54 2	13°16'06	16°20	5°11	4°47	14°10	0°37	5°12	19°16	19°40	4°44	20° 4	18°52	25°39	11° 2	W 6
T 7	18 57 59	14°13'19	0°II25	5°23	5°56	14°47	0°50	5°10	19°19	19°41	4°45	20° 5	18°49	25°46	10°58	T 7
F 8	19 1 55	15°10'33	14°54	5°30	7° 6	15°24	1° 3	5° 8	19°23	19°42	4°45	20°R 6	18°46	25°52	10°54	F 8
S 9	19 5 52	16° 7'48	29°46	5°R32	8°15	16° 1	1°16	5° 6	19°26	19°43	4°46	20° 6	18°42	25°59	10°51	S 9
S 10	19 9 48	17° 5'03	14°52	5°29	9°25	16°39	1°29	5° 3	19°29	19°45	4°46	20° 4	18°39	26° 6	10°47	S 10
M 11	19 13 45	18° 2'18	0°II 5	5°21	10°34	17°16	1°42	5° 1	19°32	19°46	4°47	20° 1	18°36	26°12	10°43	M 11
T 12	19 17 41	18°59'33	15°14	5° 9	11°44	17°53	1°55	4°59	19°36	19°47	4°47	19°58	18°33	26°19	10°39	T 12
W 13	19 21 38	19°56'49	0°mp10	4°52	12°54	18°31	2° 8	4°56	19°39	19°48	4°48	19°54	18°30	26°26	10°36	W 13
T 14	19 25 34	20°54'05	14°45	4°30	14° 3	19° 8	2°21	4°54	19°42	19°50	4°48	19°50	18°27	26°32	10°32	T 14
F 15	19 29 31	21°51'21	28°55	4° 4	15°13	19°46	2°34	4°51	19°45	19°51	4°49	19°47	18°23	26°39	10°28	F 15
S 16	19 33 28	22°48'38	12°II37	3°35	16°23	20°23	2°48	4°48	19°48	19°52	4°49	19°45	18°20	26°46	10°25	S 16
S 17	19 37 24	23°45'54	25°53	3° 1	17°33	21° 0	3° 1	4°46	19°51	19°54	4°50	19°D45	18°17	26°52	10°21	S 17
M 18	19 41 21	24°43'11	8°III45	2°24	18°44	21°38	3°14	4°43	19°54	19°55	4°50	19°45	18°14	26°59	10°18	M 18
T 19	19 45 17	25°40'29	21°17	1°45	19°54	22°15	3°27	4°40	19°58	19°57	4°50	19°47	18°11	27° 6	10°14	T 19
W 20	19 49 14	26°37'47	3°X33	1° 3	21° 4	22°53	3°40	4°37	20° 1	19°58	4°51	19°48	18° 8	27°12	10°11	W 20
T 21	19 53 10	27°35'05	15°37	0°21	22°14	23°30	3°53	4°34	20° 4	20° 0	4°51	19°R49	18° 4	27°19	10° 7	T 21
F 22	19 57 7	28°32'24	27°33	29°37	23°25	24° 8	4° 7	4°30	20° 7	20° 1	4°51	19°49	18° 1	27°26	10° 4	F 22
S 23	20 1 3	29°29'43	9°325	28°54	24°35	24°46	4°20	4°27	20°10	20° 3	4°52	19°47	17°58	27°32	10° 0	S 23
S 24	20 5 0	0°II27'04	21°14	28°11	25°46	25°23	4°33	4°24	20°12	20° 4	4°52	19°43	17°55	27°39	9°57	S 24
M 25	20 8 57	1°24'25	3°II 4	27°31	26°57	26° 1	4°46	4°21	20°15	20° 6	4°52	19°38	17°52	27°46	9°54	M 25
T 26	20 12 53	2°21'46	14°56	26°52	28° 7	26°38	4°59	4°17	20°18	20° 8	4°52	19°31	17°48	27°52	9°50	T 26
W 27	20 16 50	3°19'09	26°52	26°17	29°18	27°16	5°13	4°14	20°21	20° 9	4°52	19°23	17°45	27°59	9°47	W 27
T 28	20 20 46	4°16'33	8°H54	25°46	0°329	27°54	5°26	4°10	20°24	20°11	4°53	19°15	17°42	28° 6	9°44	T 28
F 29	20 24 43	5°13'57	21° 3	25°19	1°40	28°31	5°39	4° 6	20°27	20°13	4°53	19° 7	17°39	28°12	9°40	F 29
S 30	20 28 39	6°11'23	3°V23	24°58	2°51	29° 9	5°52	4° 3	20°29	20°14	4°53	19° 1	17°36	28°19	9°37	S 30
S 31	20 32 36	7°II 8'50	15°V55	24°52	4°32	29°II47	6°II 6	3°H59	20°II32	20°mp16	4°53	18°II57	17°II33	28°326	9°334	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	23n13	11s55	5s12	18n32	1s 0	17n53	2s 9	18n41	1n14	20n47	0n31	11s10	1s43	23n 7	0n 5	5n16
S 2	23 9	7 8	5 15	18 10	1 14	18 9	2 8	18 30	1 14	20 45	0 31	11 11	1 43	23 7	0 5	5 16
S 3	23 5	1 58	5 2	17 50	1 28	18 25	2 6	18 19	1 13	20 42	0 31	11 12	1 44	23 7	0 5	5 16
M 4	23 0	3n24	4 35	17 30	1 43	18 41	2 4	18 8	1 13	20 39	0 31	11 13	1 44	23 7	0 5	5 15
T 5	22 55	8 48	3 52	17 10	1 58	18 56	2 2	17 57	1 13	20 37	0 31	11 14	1 44	23 8	0 5	5 15
W 6	22 50	13 58	2 55	16 52	2 12	19 10	2 0	17 46	1 13	20 34	0 31	11 14	1 44	23 8	0 5	5 14
T 7	22 44	18 33	1 46	16 35	2 27	19 24	1 58	17 35	1 12	20 31	0 31	11 15	1 44	23 8	0 5	5 14
F 8	22 37	22 10	0 29	16 19	2 42	19 38	1 56	17 24	1 12	20 28	0 31	11 16	1 45	23 8	0 5	5 13
S 9	22 31	24 22	0n53	16 5	2 56	19 52	1 54	17 12	1 12	20 26	0 31	11 17	1 45	23 9	0 5	5 13
S 10	22 24	24 51	2 12	15 52	3 11	20 4	1 51	17 1	1 11	20 23	0 31	11 18	1 45	23 9	0 5	5 12
M 11	22 16	23 28	3 22	15 40	3 24	20 17	1 49	16 49	1 11	20 20	0 31	11 19	1 45	23 9	0 5	5 12
T 12	22 8	20 24	4 18	15 30	3 38	20 29	1 47	16 37	1 11	20 17	0 31	11 20	1 45	23 10	0 5	5 11
W 13	22 0	16 1	4 55	15 21	3 51	20 40	1 44	16 26	1 10	20 14	0 31	11 21	1 46	23 10	0 5	5 11
T 14	21 52	10 48	5 12	15 15	4 3	20 51	1 42	16 14	1 10	20 11	0 31	11 23	1 46	23 10	0 5	5 10
F 15	21 43	5 9	5 9	15 10	4 14	21 1	1 40	16 2	1 10	20 8	0 32	11 24	1 46	23 10	0 5	5 10
S 16	21 33	0s34	4 48	15 7	4 24	21 11	1 37	15 49	1 9	20 5	0 32	11 25	1 46	23 11	0 5	5 9
S 17	21 24	6 5	4 13	15 6	4 33	21 20	1 34	15 37	1 9	20 2	0 32	11 26	1 46	23 11	0 5	5 8
M 18	21 14	11 12	3 26	15 6	4 41	21 29	1 32	15 25	1 9	19 59	0 32	11 27	1 47	23 11	0 5	5 8
T 19	21 3	15 43	2 29	15 9	4 47	21 37	1 29	15 12	1 9	19 56	0 32	11 29	1 47	23 11	0 5	5 7
W 20	20 52	19 28	1 28	15 13	4 52	21 45	1 26	15 0	1 8	19 53	0 32	11 30	1 47	23 12	0 5	5 7
T 21	20 41	22 20	0 23	15 19	4 55	21 52	1 24	14 47	1 8	19 50	0 32	11 31	1 47	23 12	0 5	5 6
F 22	20 30	24 10	0s42	15 27	4 56	21 59	1 21	14 34	1 8	19 47	0 32	11 33	1 47	23 12	0 5	5 5
S 23	20 18	24 54	1 45	15 36	4 55	22 5	1 18	14 21	1 7	19 44	0 32	11 34	1 48	23 12	0 5	5 5
S 24	20 6	24 29	2 42	15 47	4 53	22 10	1 15	14 8	1 7	19 41	0 32	11 35	1 48	23 13	0 5	5 4
M 25	19 53	22 58	3 33	15 59	4 49	22 15	1 12	13 55	1 7	19 38	0 32	11 37	1 48	23 13	0 5	5 4
T 26	19 40	20 26	4 14	16 12	4 43	22 19	1 9	13 42	1 6	19 35	0 32	11 38	1 48	23 13	0 5	5 3
W 27	19 27	17 2	4 45	16 25	4 36	22 23	1 7	13 29	1 6	19 32	0 32	11 40	1 48	23 13	0 5	5 2
T 28	19 14	12 56	5 3	16 40	4 27	22 26	1 4	13 15	1 6	19 29	0 33	11 41	1 48	23 13	0 5	5 2
F 29	19 0	8 16	5 8	16 55	4 16	22 28	1 1	13 2	1 5	19 25	0 33	11 43	1 49	23 14	0 5	5 1
S 30	18 46	3 13	4 58	17 10	4 5	22 30	0 58	12 48	1 5	19 22	0 33	11 44	1 49	23 14	0 5	5 0
S 31	18n31	2n 3	4s35	17n26	3s52	22n31	0s55	12n35	1n 5	19n19	0n33	11s46	1s49	23n14	0n 5	5n 0

Julian Day Number = 2309646.5, Delta T = 75.04 sec
Ecliptic obliquity = 23°29'25, Nutation = -0°00'16, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°19'05, Lahiri = 18°26'05Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1611

geocentric

AUGUST 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 36 32	8♌ 6'18	28♌43	24°R32	5♌13	0♍25	6♌19	3°R55	20♌35	20♍18	4♌53	18°R55	17♌29	28♌32	9°R31	M 1
T 2	20 40 29	9° 3'48	11♌51	24°D28	6°25	1° 2	6°32	3♌51	20°37	20°19	4°53	18°D54	17°26	28°39	9♌28	T 2
W 3	20 44 26	10° 1'19	25°21	24♌31	7°36	1°40	6°45	3°47	20°40	20°21	4°53	18♌55	17°23	28°46	9°25	W 3
T 4	20 48 22	10°58'51	9♌15	24°41	8°47	2°18	6°58	3°43	20°43	20°23	4°53	18°56	17°20	28°52	9°22	T 4
F 5	20 52 19	11°56'25	23°34	24°57	9°59	2°56	7°12	3°39	20°45	20°25	4°R53	18°R56	17°17	28°59	9°19	F 5
S 6	20 56 15	12°54'00	8♌16	25°21	11°11	3°34	7°25	3°35	20°48	20°27	4°53	18°55	17°14	29° 6	9°17	S 6
S 7	21 0 12	13°51'37	23°17	25°51	12°22	4°12	7°38	3°31	20°50	20°29	4°53	18°51	17°10	29°13	9°14	S 7
M 8	21 4 8	14°49'15	8♌28	26°29	13°34	4°50	7°51	3°27	20°53	20°30	4°53	18°45	17° 7	29°19	9°11	M 8
T 9	21 8 5	15°46'54	23°41	27°13	14°46	5°28	8° 4	3°23	20°55	20°32	4°53	18°37	17° 4	29°26	9° 8	T 9
W10	21 12 1	16°44'35	8♌44	28° 4	15°57	6° 6	8°18	3°18	20°57	20°34	4°53	18°29	17° 1	29°33	9° 6	W10
T11	21 15 58	17°42'16	23°28	29° 1	17° 9	6°44	8°31	3°14	21° 0	20°36	4°53	18°20	16°58	29°39	9° 3	T11
F12	21 19 55	18°39'59	7♌46	0♌ 5	18°21	7°22	8°44	3°10	21° 2	20°38	4°53	18°13	16°54	29°46	9° 1	F12
S13	21 23 51	19°37'42	21°35	1°15	19°33	8° 0	8°57	3° 5	21° 4	20°40	4°53	18° 7	16°51	29°53	8°58	S13
S14	21 27 48	20°35'27	4♌55	2°31	20°45	8°38	9°10	3° 1	21° 6	20°42	4°52	18° 4	16°48	29°59	8°56	S14
M15	21 31 44	21°33'13	17°48	3°53	21°57	9°16	9°23	2°57	21° 9	20°44	4°52	18°D 3	16°45	0°≈ 6	8°54	M15
T16	21 35 41	22°31'00	0♌19	5°20	23°10	9°55	9°36	2°52	21°11	20°46	4°52	18° 3	16°42	0°13	8°51	T16
W17	21 39 37	23°28'48	12°31	6°51	24°22	10°33	9°49	2°48	21°13	20°48	4°52	18°R 4	16°39	0°19	8°49	W17
T18	21 43 34	24°26'38	24°31	8°27	25°34	11°11	10° 2	2°43	21°15	20°50	4°52	18° 4	16°35	0°26	8°47	T18
F19	21 47 30	25°24'28	6♌24	10° 8	26°46	11°49	10°15	2°39	21°17	20°52	4°51	18° 2	16°32	0°33	8°45	F19
S20	21 51 27	26°22'20	18°13	11°51	27°59	12°27	10°28	2°34	21°19	20°54	4°51	17°58	16°29	0°39	8°43	S20
S21	21 55 24	27°20'14	0°≈ 2	13°38	29°11	13° 6	10°41	2°30	21°21	20°56	4°51	17°51	16°26	0°46	8°41	S21
M22	21 59 20	28°18'09	11°54	15°28	0♌24	13°44	10°54	2°25	21°23	20°58	4°50	17°42	16°23	0°53	8°39	M22
T23	22 3 17	29°16'05	23°51	17°20	1°37	14°22	11° 7	2°21	21°24	21° 0	4°50	17°31	16°19	0°59	8°38	T23
W24	22 7 13	0♍14'03	5♌55	19°13	2°49	15° 1	11°20	2°16	21°26	21° 3	4°50	17°18	16°16	1° 6	8°36	W24
T25	22 11 10	1°12'02	18° 8	21° 8	4° 2	15°39	11°33	2°11	21°28	21° 5	4°49	17° 5	16°13	1°13	8°34	T25
F26	22 15 6	2°10'03	0♍29	23° 4	5°15	16°18	11°45	2° 7	21°30	21° 7	4°49	16°53	16°10	1°19	8°33	F26
S27	22 19 3	3° 8'06	12°59	25° 1	6°28	16°56	11°58	2° 2	21°31	21° 9	4°48	16°43	16° 7	1°26	8°31	S27
S28	22 22 59	4° 6'11	25°41	26°58	7°40	17°35	12°11	1°58	21°33	21°11	4°48	16°35	16° 4	1°33	8°30	S28
M29	22 26 56	5° 4'17	8♌35	28°56	8°53	18°13	12°23	1°53	21°34	21°13	4°47	16°30	16° 0	1°40	8°29	M29
T30	22 30 53	6° 2'26	21°44	0♍53	10° 6	18°52	12°36	1°49	21°36	21°15	4°47	16°28	15°57	1°46	8°27	T30
W31	22 34 49	7♍0'37	5♌11	2♍50	11♌20	19♍30	12♌49	1♌44	21♌37	21♍18	4♌46	16°D28	15♌54	1°≈53	8♌26	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	18n17	7n21	3s57	17n41	3s38	22n32	0s52	12n21	1n 4	19n16	0n33	11s47	1s49	23n14	0n 5	4n59
T 2	18 2	12 28	3 6	17 56	3 23	22 31	0 49	12 7	1 4	19 13	0 33	11 49	1 49	23 14	0 5	4 58
W 3	17 46	17 8	2 4	18 11	3 8	22 31	0 46	11 53	1 4	19 9	0 33	11 50	1 49	23 15	0 5	4 57
T 4	17 31	21 2	0 52	18 25	2 52	22 29	0 43	11 40	1 3	19 6	0 33	11 52	1 50	23 15	0 5	4 57
F 5	17 15	23 45	1n25	18 38	2 36	22 27	0 40	11 26	1 3	19 3	0 33	11 54	1 50	23 15	0 5	4 56
S 6	16 59	24 56	1 42	18 50	2 19	22 25	0 37	11 11	1 2	19 0	0 33	11 55	1 50	23 15	0 5	4 55
S 7	16 42	24 20	2 53	19 1	2 2	22 21	0 34	10 57	1 2	18 56	0 33	11 57	1 50	23 15	0 5	4 54
M 8	16 25	21 56	3 53	19 11	1 46	22 18	0 30	10 43	1 2	18 53	0 33	11 58	1 50	23 16	0 5	4 54
T 9	16 8	18 0	4 37	19 18	1 29	22 13	0 27	10 29	1 1	18 50	0 34	12 0	1 50	23 16	0 5	4 53
W10	15 51	12 57	5 0	19 25	1 12	22 8	0 24	10 14	1 1	18 46	0 34	12 2	1 50	23 16	0 5	4 52
T11	15 34	7 15	5 4	19 29	0 56	22 2	0 21	10 0	1 1	18 43	0 34	12 3	1 51	23 16	0 5	4 51
F12	15 16	1 19	4 47	19 31	0 41	21 56	0 18	9 45	1 0	18 40	0 34	12 5	1 51	23 16	0 5	4 51
S13	14 58	4s29	4 15	19 30	0 25	21 49	0 15	9 31	1 0	18 36	0 34	12 7	1 51	23 16	0 5	4 50
S14	14 39	9 54	3 29	19 28	0 11	21 41	0 12	9 16	1 0	18 33	0 34	12 8	1 51	23 17	0 5	4 49
M15	14 21	14 42	2 34	19 22	0n 3	21 33	0 9	9 1	0 59	18 29	0 34	12 10	1 51	23 17	0 5	4 48
T16	14 2	18 44	1 33	19 14	0 16	21 24	0 6	8 47	0 59	18 26	0 34	12 12	1 51	23 17	0 5	4 47
W17	13 43	21 51	0 30	19 4	0 29	21 14	0 3	8 32	0 59	18 23	0 34	12 14	1 51	23 17	0 5	4 47
T18	13 24	23 57	0s34	18 50	0 40	21 4	0 1	8 17	0 58	18 19	0 34	12 15	1 51	23 17	0 5	4 46
F19	13 5	24 56	1 36	18 34	0 51	20 53	0n 2	8 2	0 58	18 16	0 35	12 17	1 51	23 17	0 5	4 45
S20	12 45	24 47	2 33	18 14	1 1	20 42	0 5	7 47	0 57	18 12	0 35	12 19	1 51	23 17	0 5	4 44
S21	12 25	23 30	3 23	17 52	1 9	20 30	0 8	7 32	0 57	18 9	0 35	12 21	1 52	23 18	0 5	4 43
M22	12 5	21 11	4 5	17 28	1 17	20 17	0 11	7 17	0 57	18 6	0 35	12 22	1 52	23 18	0 5	4 43
T23	11 45	17 56	4 36	17 0	1 24	20 4	0 14	7 2	0 56	18 2	0 35	12 24	1 52	23 18	0 5	4 42
W24	11 25	13 55	4 55	16 31	1 30	19 50	0 17	6 46	0 56	17 59	0 35	12 26	1 52	23 18	0 5	4 41
T25	11 4	9 19	5 1	15 59	1 35	19 36	0 19	6 31	0 55	17 55	0 35	12 27	1 52	23 18	0 5	4 40
F26	10 44	4 17	4 53	15 25	1 39	19 21	0 22	6 16	0 55	17 52	0 35	12 29	1 52	23 18	0 5	4 39
S27	10 23	0n59	4 30	14 49	1 42	19 6	0 25	6 1	0 55	17 48	0 35	12 31	1 52	23 18	0 5	4 38
S28	10 2	6 18	3 54	14 11	1 45	18 50	0 27	5 45	0 54	17 45	0 36	12 33	1 52	23 19	0 5	4 37
M29	9 40	11 27	3 6	13 32	1 46	18 33	0 30	5 30	0 54	17 41	0 36	12 34	1 52	23 19	0 5	4 37
T30	9 19	16 12	2 7	12 51	1 47	18 16	0 32	5 14	0 54	17 38	0 36	12 36	1 52	23 19	0 5	4 36
W31	8n57	20n14	0s59	12n 9	1n47	17n59	0n35	4n59	0n53	17n35	0n36	12s38	1s52	23n19	0n 5	4n35

Julian Day Number = 2309677.5, Delta T = 74.95 sec
 Ecliptic obliquity = 23°29'25", Nutation = - 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°19'09", Lahiri = 18°26'10"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1611
geocentric

SEPTEMBER 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 38 46	7♍58'49	18♊56	4♍46	12♊33	20♍9	13♊1	1°R40	21♊39	21♍20	4°R46	16°R28	15♊51	2♍0	8°R25	T 1
F 2	22 42 42	8°57'04	3♊2	6°42	13°46	20°48	13°14	1°K35	21°40	21°22	4°B45	16♊27	15°48	2°6	8°B24	F 2
S 3	22 46 39	9°55'21	17°28	8°37	14°59	21°26	13°26	1°31	21°41	21°24	4°45	16°24	15°45	2°13	8°23	S 3
S 4	22 50 35	10°53'40	2♊12	10°31	16°13	22°5	13°39	1°26	21°43	21°26	4°44	16°19	15°41	2°20	8°22	S 4
M 5	22 54 32	11°52'01	17°8	12°24	17°26	22°44	13°51	1°22	21°44	21°29	4°43	16°12	15°38	2°26	8°22	M 5
T 6	22 58 28	12°50'24	2♍8	14°16	18°39	23°23	14°4	1°17	21°45	21°31	4°43	16°1	15°35	2°33	8°21	T 6
W 7	23 2 25	13°48'49	17°2	16°8	19°53	24°1	14°16	1°13	21°46	21°33	4°42	15°50	15°32	2°40	8°20	W 7
T 8	23 6 22	14°47'16	1♊42	17°58	21°6	24°40	14°28	1°8	21°47	21°35	4°42	15°39	15°29	2°46	8°20	T 8
F 9	23 10 18	15°45'44	16°1	19°47	22°20	25°19	14°40	1°4	21°48	21°37	4°41	15°29	15°25	2°53	8°19	F 9
S 10	23 14 15	16°44'14	29°52	21°35	23°34	25°58	14°52	1°0	21°49	21°40	4°40	15°21	15°22	3°0	8°19	S 10
S 11	23 18 11	17°42'46	13♍15	23°22	24°47	26°37	15°5	0°55	21°50	21°42	4°39	15°15	15°19	3°6	8°18	S 11
M12	23 22 8	18°41'20	26°11	25°8	26°1	27°16	15°17	0°51	21°51	21°44	4°39	15°13	15°16	3°13	8°18	M12
T 13	23 26 4	19°39'55	8♍44	26°53	27°15	27°55	15°29	0°47	21°52	21°46	4°38	15°12	15°13	3°20	8°18	T 13
W14	23 30 1	20°38'32	20°58	28°37	28°28	28°34	15°40	0°43	21°53	21°48	4°37	15°12	15°10	3°27	8°D18	W14
T 15	23 33 57	21°37'11	2♊58	0♊20	29°42	29°13	15°52	0°39	21°53	21°51	4°37	15°11	15°6	3°33	8°18	T 15
F 16	23 37 54	22°35'51	14°51	2°2	0♍56	29°52	16°4	0°35	21°54	21°53	4°36	15°10	15°3	3°40	8°18	F 16
S 17	23 41 51	23°34'33	26°40	3°42	2°10	0♊31	16°16	0°31	21°55	21°55	4°35	15°6	15°0	3°47	8°18	S 17
S 18	23 45 47	24°33'17	8♍31	5°22	3°24	1°10	16°28	0°27	21°55	21°57	4°34	14°59	14°57	3°53	8°19	S 18
M19	23 49 44	25°32'02	20°27	7°1	4°38	1°50	16°39	0°23	21°56	22°0	4°33	14°50	14°54	4°0	8°19	M19
T 20	23 53 40	26°30'50	2♍31	8°39	5°52	2°29	16°51	0°19	21°56	22°2	4°32	14°38	14°51	4°7	8°19	T 20
W21	23 57 37	27°29'39	14°45	10°16	7°6	3°8	17°2	0°15	21°56	22°4	4°32	14°25	14°47	4°13	8°20	W21
T 22	0 1 33	28°28'30	27°11	11°52	8°20	3°47	17°14	0°11	21°57	22°6	4°31	14°12	14°44	4°20	8°20	T 22
F 23	0 5 30	29°27'23	9♍48	13°27	9°35	4°27	17°25	0°8	21°57	22°9	4°30	14°0	14°41	4°27	8°21	F 23
S 24	0 9 26	0♊26'19	22°36	15°2	10°49	5°6	17°36	0°4	21°57	22°11	4°29	13°49	14°38	4°33	8°22	S 24
S 25	0 13 23	1°25'16	5♍35	16°35	12°3	5°46	17°47	0°0	21°58	22°13	4°28	13°41	14°35	4°40	8°23	S 25
M26	0 17 19	2°24'16	18°45	18°8	13°18	6°25	17°59	29♍57	21°58	22°15	4°27	13°36	14°31	4°47	8°23	M26
T 27	0 21 16	3°23'18	2♊7	19°39	14°32	7°4	18°10	29°53	21°58	22°17	4°26	13°34	14°28	4°53	8°24	T 27
W28	0 25 13	4°22'22	15°40	21°10	15°46	7°44	18°21	29°50	21°R58	22°20	4°25	13°D33	14°25	5°0	8°25	W28
T 29	0 29 9	5°21'29	29°26	22°40	17°1	8°24	18°31	29°47	21°58	22°22	4°24	13°R34	14°22	5°7	8°27	T 29
F 30	0 33 6	6♊20'38	13♊25	24♊10	18♍15	9♊3	18♊42	29♍44	21♊58	22♍24	4°B23	13♊34	14♊19	5♍14	8°B28	F 30

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	8n36	23n15	0n13	11n26	1n47	17n41	0n38	4n43	0n53	17n31	0n36	12s39	1s52	23n19	0n 5	4n34	1n13	2s26	16s30	22n48	22n44	23s23	16s 9	7n 5	
F 2	8 14	24 54	1 26	10 42	1 45	17 22	0 40	4 27	0 52	17 28	0 36	12 41	1 52	23 19	0 5	4 33	1 13	2 26	16 30	22 48	22 44	23 22	16 10	7 4	
S 3	7 52	24 55	2 36	9 58	1 44	17 3	0 42	4 12	0 52	17 24	0 36	12 43	1 52	23 19	0 5	4 32	1 13	2 27	16 30	22 48	22 44	23 21	16 10	7 4	
S 4	7 30	23 13	3 37	9 12	1 41	16 43	0 45	3 56	0 52	17 21	0 36	12 44	1 52	23 19	0 5	4 31	1 13	2 27	16 30	22 47	22 43	23 20	16 11	7 3	
M 5	7 8	19 54	4 23	8 26	1 38	16 23	0 47	3 40	0 51	17 17	0 36	12 46	1 52	23 19	0 5	4 31	1 13	2 28	16 31	22 46	22 43	23 19	16 12	7 3	
T 6	6 45	15 16	4 52	7 40	1 35	16 3	0 49	3 25	0 51	17 14	0 37	12 47	1 52	23 19	0 5	4 30	1 13	2 28	16 31	22 45	22 43	23 18	16 12	7 2	
W 7	6 23	9 44	5 0	6 53	1 31	15 42	0 51	3 9	0 50	17 10	0 37	12 49	1 52	23 20	0 5	4 29	1 13	2 29	16 31	22 44	22 42	23 17	16 13	7 2	
T 8	6 0	3 44	4 49	6 6	1 27	15 20	0 54	2 53	0 50	17 7	0 37	12 51	1 52	23 20	0 5	4 28	1 13	2 29	16 31	22 43	22 42	23 16	16 13	7 1	
F 9	5 38	2s19	4 19	5 19	1 23	14 58	0 56	2 37	0 49	17 3	0 37	12 52	1 53	23 20	0 5	4 27	1 13	2 29	16 32	22 42	22 41	23 15	16 14	7 1	
S 10	5 15	8 5	3 35	4 32	1 18	14 36	0 58	2 21	0 49	17 0	0 37	12 54	1 53	23 20	0 5	4 26	1 13	2 30	16 32	22 41	22 41	23 14	16 14	7 0	
S 11	4 52	13 18	2 40	3 45	1 13	14 13	1 0	2 5	0 49	16 57	0 37	12 55	1 53	23 20	0 6	4 25	1 13	2 30	16 32	22 40	22 41	23 13	16 15	7 0	
M12	4 29	17 44	1 39	2 58	1 7	13 50	1 2	1 50	0 48	16 53	0 37	12 57	1 53	23 20	0 6	4 24	1 13	2 31	16 32	22 40	22 40	23 12	16 15	6 59	
T 13	4 6	21 15	0 34	2 11	1 2	13 27	1 3	1 34	0 48	16 50	0 38	12 58	1 53	23 20	0 6	4 24	1 13	2 31	16 33	22 40	22 40	23 11	16 16	6 59	
W14	3 43	23 41	0s31	1 24	0 56	13 3	1 5	1 18	0 47	16 46	0 38	13 0	1 53	23 20	0 6	4 23	1 13	2 32	16 33	22 40	22 40	23 10	16 16	6 58	
T 15	3 20	25 0	1 33	0 37	0 49	12 39	1 7	1 2	0 47	16 43	0 38	13 1	1 53	23 20	0 6	4 22	1 13	2 32	16 33	22 40	22 39	23 9	16 17	6 58	
F 16	2 57	25 9	2 30	0s 9	0 43	12 14	1 9	0 46	0 47	16 39	0 38	13 3	1 53	23 20	0 6	4 21	1 13	2 33	16 33	22 40	22 39	23 8	16 17	6 57	
S 17	2 33	24 9	3 21	0 55	0 37	11 49	1 10	0 30	0 46	16 36	0 38	13 4	1 52	23 20	0 6	4 20	1 13	2 33	16 33	22 39	22 39	23 7	16 18	6 57	
S 18	2 10	22 4	4 3	1 41	0 30	11 24	1 12	0 14	0 46	16 33	0 38	13 6	1 52	23 20	0 6	4 19	1 13	2 33	16 34	22 39	22 38	23 6	16 18	6 56	
M19	1 47	19 2	4 34	2 26	0 23	10 58	1 13	0s 2	0 45	16 29	0 38	13 7	1 52	23 20	0 6	4 18	1 13	2 34	16 34	22 38	22 38	23 5	16 19	6 56	
T 20	1 23	15 10	4 54	3 11	0 16	10 32	1 15	0 18	0 45	16 26	0 39	13 8	1 52	23 20	0 6	4 17	1 13	2 34	16 34	22 36	22 38	23 4	16 19	6 55	
W21	1 0	10 38	5 0	3 56	0 9	10 6	1 16	0 34	0 44	16 23	0 39	13 10	1 52	23 20	0 6	4 17	1 13	2 35	16 34	22 35	22 37	23 3	16 20	6 55	
T 22	0 36	5 36	4 53	4 40	0 2	9 39	1 18	0 50	0 44	16 19	0 39	13 11	1 52	23 20	0 6	4 16	1 13	2 35	16 34	22 33	22 37	23 1	16 20	6 54	
F 23	0 13	0 16	4 31	5 24	0s 5	9 13	1 19	1 6	0 43	16 16	0 39	13 12	1 52	23 20	0 6	4 15	1 13	2 36	16 35	22 32	22 37	23 0	16 21	6 54	
S 24	0s10	5n10	3 55	6 7	0 12	8 46	1 20	1 22	0 43	16 13	0 39	13 13	1 52	23 20	0 6	4 14	1 13	2 36	16 35	22 30	22 36	22 59	16 21	6 53	
S 25	0 34	10 28	3 7	6 50	0 19	8 18	1 21	1 38	0 43	16 9	0 39	13 15	1 52	23 20	0 6	4 13	1 13	2 37	16 35	22 30	22 36	22 58	16 22	6 53	
M26	0 57	15 24	2 8	7 32	0 26	7 51	1 22	1 55	0 42	16 6	0 39	13 16	1 52	23 20	0 6	4 12	1 13	2 37	16 35	22 29	22 35	22 57	16 22	6 52	
T 27	1 21	19 38	1 0	8 13	0 34	7 23	1 23	2 11	0 42	16 3	0 40	13 17	1 52	23 21	0 6	4 11	1 13	2 38	16 35	22 29	22 35	22 56	16 23	6 51	
W28	1 44	22 54	0n11	8 54	0 41	6 55	1 24	2 27	0 41	16 0	0 40	13 18	1 52	23 21	0 6	4 11	1 13	2 38	16 35	22 29	22 35	22 55	16 23	6 51	
T 29	2 8	24 53	1 23	9 35	0 48	6 26	1 25	2 43	0 41	15 56	0 40	13 19	1 52	23 21	0 6	4 10	1 13	2 38	16 36	22 29	22 34	22 54	16 24	6 50	
F 30	2s31	25n20	2n32	10s15	0s55	5n58	1n26	2s59	0n40	15n53	0n40	13s20	1s52	23n21	0n 6	4n 9	1n14	2s39	16s36	22n29	22n34	22s53	16s24	6n50	

ASTRODIENST EPHEMERIS for the year 1611
geocentric

OCTOBER 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 37 2	7♏19'49	27♏37	25♏38	19♏30	9♏43	18♏53	29°R40	21°R58	22♏26	4°R22	13°R32	14♏16	5♏20	8♏29	S 1
S 2	0 40 59	8°19'03	12♏1	27°5	20°44	10°22	19°4	29♏37	21♏57	22°28	4♏21	13♏28	14°12	5°27	8°30	S 2
M 3	0 44 55	9°18'19	26°34	28°32	21°59	11°2	19°14	29°34	21°57	22°30	4°20	13°22	14°9	5°34	8°32	M 3
T 4	0 48 52	10°17'37	11♏9	29°58	23°14	11°42	19°25	29°32	21°57	22°33	4°19	13°13	14°6	5°40	8°33	T 4
W 5	0 52 48	11°16'58	25°41	1♏22	24°28	12°22	19°35	29°29	21°57	22°35	4°18	13°3	14°3	5°47	8°35	W 5
T 6	0 56 45	12°16'20	10♏3	2°46	25°43	13°1	19°45	29°26	21°56	22°37	4°17	12°53	14°0	5°54	8°37	T 6
F 7	1 0 42	13°15'45	24°8	4°9	26°58	13°41	19°56	29°23	21°56	22°39	4°16	12°44	13°56	6°0	8°38	F 7
S 8	1 4 38	14°15'11	7♏51	5°31	28°12	14°21	20°6	29°21	21°55	22°41	4°15	12°37	13°53	6°7	8°40	S 8
S 9	1 8 35	15°14'40	21°11	6°52	29°27	15°1	20°16	29°18	21°55	22°43	4°14	12°33	13°50	6°14	8°42	S 9
M10	1 12 31	16°14'10	4♏7	8°12	0♏42	15°41	20°26	29°16	21°54	22°45	4°13	12°31	13°47	6°20	8°44	M10
T 11	1 16 28	17°13'43	16°41	9°30	1°57	16°21	20°35	29°14	21°53	22°47	4°12	12°D30	13°44	6°27	8°46	T 11
W12	1 20 24	18°13'17	28°56	10°48	3°12	17°1	20°45	29°11	21°53	22°49	4°11	12°31	13°41	6°34	8°48	W12
T 13	1 24 21	19°12'53	10♏58	12°4	4°27	17°41	20°55	29°9	21°52	22°52	4°10	12°32	13°37	6°41	8°51	T 13
F 14	1 28 17	20°12'31	22°52	13°19	5°42	18°21	21°4	29°7	21°51	22°54	4°9	12°R32	13°34	6°47	8°53	F 14
S 15	1 32 14	21°12'10	4♏43	14°32	6°57	19°1	21°13	29°5	21°50	22°56	4°8	12°31	13°31	6°54	8°55	S 15
S 16	1 36 11	22°11'51	16°35	15°43	8°12	19°41	21°23	29°3	21°49	22°58	4°7	12°28	13°28	7°1	8°58	S 16
M17	1 40 7	23°11'34	28°34	16°53	9°26	20°22	21°32	29°2	21°48	23°0	4°5	12°23	13°25	7°7	9°0	M17
T 18	1 44 4	24°11'19	10♏43	18°0	10°41	21°2	21°41	29°0	21°47	23°2	4°4	12°16	13°22	7°14	9°3	T 18
W19	1 48 0	25°11'05	23°6	19°6	11°57	21°42	21°50	28°58	21°46	23°4	4°3	12°7	13°18	7°21	9°6	W19
T 20	1 51 57	26°10'54	5♏43	20°9	13°12	22°22	21°59	28°57	21°45	23°5	4°2	11°59	13°15	7°27	9°8	T 20
F 21	1 55 53	27°10'44	18°36	21°9	14°27	23°3	22°7	28°56	21°44	23°7	4°1	11°51	13°12	7°34	9°11	F 21
S 22	1 59 50	28°10'36	1♏44	22°7	15°42	23°43	22°16	28°54	21°43	23°9	4°0	11°44	13°9	7°41	9°14	S 22
S 23	2 3 46	29°10'30	15°6	23°1	16°57	24°24	22°24	28°53	21°42	23°11	3°59	11°39	13°6	7°48	9°17	S 23
M24	2 7 43	0♏10'26	28°40	23°51	18°12	25°4	22°33	28°52	21°40	23°13	3°58	11°36	13°2	7°54	9°20	M24
T 25	2 11 40	1°10'24	12♏25	24°38	19°27	25°45	22°41	28°51	21°39	23°15	3°56	11°D35	12°59	8°1	9°23	T 25
W26	2 15 36	2°10'25	26°17	25°20	20°42	26°25	22°49	28°50	21°38	23°17	3°55	11°36	12°56	8°8	9°26	W26
T 27	2 19 33	3°10'27	10♏16	25°57	21°58	27°6	22°57	28°50	21°36	23°19	3°54	11°38	12°53	8°14	9°29	T 27
F 28	2 23 29	4°10'32	24°21	26°28	23°13	27°46	23°5	28°49	21°35	23°20	3°53	11°39	12°50	8°21	9°33	F 28
S 29	2 27 26	5°10'39	8♏30	26°54	24°28	28°27	23°12	28°48	21°33	23°22	3°52	11°R39	12°47	8°28	9°36	S 29
S 30	2 31 22	6°10'48	22°41	27°12	25°43	29°8	23°20	28°48	21°32	23°24	3°51	11°38	12°43	8°34	9°39	S 30
M31	2 35 19	7♏10'59	6♏53	27♏23	26♏59	29♏49	23♏27	28♏48	21♏30	23♏26	3♏50	11♏35	12♏40	8♏41	9♏43	M31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	2s55	24n 8	3n32	10s54	1s 2	5n29	1n26	3s15	0n40	15n50	0n40	13s21	1s52	23n21	0n 6	4n 8	1n14	2s39	16s36	22n28	22n34	22s52	16s25	6n49			
S 2	3 18	21 22	4 19	11 32	1 10	5 1	1 27	3 31	0 39	15 47	0 40	13 22	1 52	23 21	0 6	4 7	1 14	2 40	16 36	22 28	22 33	22 50	16 25	6 49			
M 3	3 42	17 14	4 51	12 10	1 17	4 32	1 28	3 47	0 39	15 44	0 41	13 23	1 52	23 21	0 6	4 6	1 14	2 40	16 36	22 27	22 33	22 49	16 25	6 48			
T 4	4 5	12 4	5 3	12 47	1 24	4 3	1 28	4 3	0 38	15 40	0 41	13 24	1 52	23 21	0 6	4 5	1 14	2 41	16 36	22 26	22 32	22 48	16 26	6 48			
W 5	4 28	6 15	4 56	13 23	1 30	3 33	1 28	4 19	0 38	15 37	0 41	13 25	1 52	23 21	0 6	4 5	1 14	2 41	16 36	22 25	22 32	22 47	16 26	6 47			
T 6	4 52	0 9	4 30	13 59	1 37	3 4	1 29	4 35	0 38	15 34	0 41	13 26	1 52	23 21	0 6	4 4	1 14	2 41	16 36	22 24	22 32	22 46	16 27	6 47			
F 7	5 15	5s50	3 49	14 34	1 44	2 34	1 29	4 51	0 37	15 31	0 41	13 27	1 51	23 21	0 6	4 3	1 14	2 42	16 37	22 22	22 31	22 45	16 27	6 46			
S 8	5 38	11 25	2 54	15 7	1 50	2 5	1 29	5 7	0 37	15 28	0 41	13 28	1 51	23 21	0 6	4 2	1 14	2 42	16 37	22 22	22 31	22 43	16 27	6 46			
S 9	6 1	16 18	1 52	15 40	1 57	1 35	1 30	5 22	0 36	15 25	0 42	13 29	1 51	23 20	0 6	4 1	1 14	2 43	16 37	22 21	22 31	22 42	16 28	6 45			
M10	6 24	20 17	0 45	16 12	2 3	1 5	1 30	5 38	0 36	15 22	0 42	13 29	1 51	23 20	0 6	4 1	1 14	2 43	16 37	22 21	22 30	22 41	16 28	6 45			
T 11	6 47	23 12	0s22	16 43	2 9	0 36	1 30	5 54	0 35	15 19	0 42	13 30	1 51	23 20	0 6	4 0	1 14	2 44	16 37	22 21	22 30	22 40	16 29	6 44			
W12	7 10	24 56	1 27	17 14	2 15	0 6	1 30	6 10	0 35	15 16	0 42	13 31	1 51	23 20	0 6	3 59	1 14	2 44	16 37	22 21	22 29	22 39	16 29	6 44			
T 13	7 32	25 29	2 27	17 43	2 20	0s24	1 29	6 26	0 34	15 13	0 42	13 32	1 51	23 20	0 6	3 58	1 14	2 44	16 37	22 21	22 29	22 37	16 29	6 43			
F 14	7 55	24 49	3 20	18 11	2 25	0 54	1 29	6 41	0 34	15 11	0 42	13 32	1 51	23 20	0 6	3 57	1 14	2 45	16 37	22 21	22 29	22 36	16 30	6 43			
S 15	8 17	23 4	4 3	18 37	2 30	1 24	1 29	6 57	0 33	15 8	0 43	13 33	1 51	23 20	0 6	3 57	1 14	2 45	16 37	22 21	22 28	22 35	16 30	6 42			
S 16	8 40	20 18	4 37	19 3	2 35	1 54	1 29	7 13	0 33	15 5	0 43	13 33	1 51	23 20	0 6	3 56	1 14	2 46	16 37	22 20	22 28	22 34	16 30	6 42			
M17	9 2	16 39	4 59	19 28	2 39	2 24	1 28	7 28	0 32	15 2	0 43	13 34	1 51	23 20	0 6	3 55	1 14	2 46	16 37	22 20	22 27	22 33	16 31	6 41			
T 18	9 24	12 18	5 7	19 51	2 43	2 54	1 28	7 44	0 32	14 59	0 43	13 34	1 50	23 20	0 6	3 54	1 14	2 46	16 37	22 19	22 27	22 31	16 31	6 41			
W19	9 46	7 22	5 2	20 13	2 47	3 24	1 27	8 0	0 31	14 57	0 43	13 35	1 50	23 20	0 6	3 54	1 14	2 47	16 37	22 18	22 27	22 30	16 31	6 40			
T 20	10 8	2 2	4 42	20 33	2 50	3 53	1 27	8 15	0 31	14 54	0 44	13 35	1 50	23 20	0 6	3 53	1 14	2 47	16 37	22 16	22 26	22 29	16 32	6 40			
F 21	10 29	3n30	4 7	20 52	2 53	4 23	1 26	8 31	0 30	14 51	0 44	13 36	1 50	23 20	0 6	3 52	1 14	2 48	16 38	22 15	22 26	22 28	16 32	6 39			
S 22	10 51	9 0	3 19	21 9	2 55	4 53	1 25	8 46	0 30	14 49	0 44	13 36	1 50	23 20	0 6	3 51	1 14	2 48	16 38	22 14	22 26	22 26	16 32	6 39			
S 23	11 12	14 12	2 19	21 24	2 56	5 22	1 25	9 1	0 29	14 46	0 44	13 36	1 50	23 20	0 6	3 51	1 14	2 48	16 38	22 14	22 25	22 25	16 32	6 38			
M24	11 33	18 47	1 10	21 38	2 57	5 52	1 24	9 17	0 29	14 44	0 44	13 36	1 50	23 20	0 6	3 50	1 14	2 49	16 38	22 13	22 25	22 24	16 33	6 38			
T 25	11 54	22 24	0n 4	21 50	2 57	6 21	1 23	9 32	0 28	14 41	0 45	13 37	1 50	23 20	0 6	3 49	1 14	2 49	16 38	22 13	22 24	22 23	16 33	6 38			
W26	12 15	24 45	1 19	22 0	2 57	6 50	1 22	9 47	0 28	14 39	0 45	13 37	1 50	23 20	0 6	3 49	1 14	2 49	16 38	22 13	22 24	22 21	16 33	6 37			
T 27	12 36	25 35	2 30	22 7	2 55	7 19	1 21	10 2	0 27	14 36	0 45	13 37	1 49	23 20	0 6	3 48	1 14	2 50	16 38	22 14	22 24	22 20	16 33	6 37			
F 28	12 56	24 46	3 32	22 12	2 53	7 48	1 20	10 17	0 27	14 34	0 45	13 37	1 49	23 20	0 6	3 47	1 14	2 50	16 38	22 14	22 23	22 19	16 34	6 36			
S 29	13 17	22 22	4 21	22 15	2 49	8 17	1 19	10 32	0 26	14 32	0 45	13 37	1 49	23 19	0 6	3 46	1 14	2 50	16 38	22 14	22 23	22 17	16 34	6 36			
S 30	13 37	18 37	4 55	22 14	2 44	8 46	1 17	10 47	0 26	14 29	0 46	13 37	1 49	23 19	0 6	3 46	1 14	2 51	16 37	22 14	22 22	22 16	16 34	6 35			
M31	13s56	13n48	5n10	22s11	2s38	9s14	1n16	11s 2	0n25	14n27	0n46	13s37	1s49	23n19	0n 6	3n45	1n14	2s51	16s37	22n13	22n22	22s15	16s34	6n35			

ASTRODIENST EPHEMERIS for the year 1611

geocentric

NOVEMBER 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 39 15	8♍11°12'	21♍2	27°R27	28♍14	0♍29	23♍35	28°R47	21°R29	23♍27	3°R49	11°R31	12♍37	8♍48	9♍46	T 1	
W 2	2 43 12	9°11'27	5♍5	27♍21	29°29	1°10	23°42	28♍47	21♍27	23°29	3♍47	11♍26	12°34	8°55	9°50	W 2	
T 3	2 47 9	10°11'44	18°59	27°6	0♍44	1°51	23°49	28°D47	21°25	23°31	3°46	11°21	12°31	9°1	9°53	T 3	
F 4	2 51 5	11°12'03	2♍40	26°41	2°0	2°32	23°56	28°47	21°24	23°32	3°45	11°16	12°28	9°8	9°57	F 4	
S 5	2 55 2	12°12'23	16°4	26°7	3°15	3°13	24°2	28°48	21°22	23°34	3°44	11°13	12°24	9°15	10°1	S 5	
S 6	2 58 58	13°12'46	29°10	25°22	4°30	3°54	24°9	28°48	21°20	23°36	3°43	11°11	12°21	9°21	10°5	S 6	
M 7	3 2 55	14°13'10	11♍58	24°28	5°46	4°35	24°15	28°48	21°18	23°37	3°42	11°D10	12°18	9°28	10°9	M 7	
T 8	3 6 51	15°13'36	24°28	23°25	7°1	5°16	24°21	28°49	21°16	23°39	3°41	11°11	12°15	9°35	10°13	T 8	
W 9	3 10 48	16°14'03	6♍34	22°14	8°17	5°57	24°28	28°49	21°14	23°40	3°40	11°12	12°12	9°41	10°17	W 9	
T 10	3 14 44	17°14'31	18°46	20°58	9°32	6°38	24°34	28°50	21°12	23°42	3°39	11°14	12°8	9°48	10°21	T 10	
F 11	3 18 41	18°15'01	0♍40	19°38	10°47	7°20	24°39	28°51	21°10	23°43	3°37	11°16	12°5	9°55	10°25	F 11	
S 12	3 22 38	19°15'33	12°32	18°17	12°3	8°1	24°45	28°52	21°8	23°45	3°36	11°17	12°2	10°2	10°29	S 12	
S 13	3 26 34	20°16'05	24°24	16°58	13°18	8°42	24°50	28°53	21°6	23°46	3°35	11°R17	11°59	10°8	10°33	S 13	
M14	3 30 31	21°16'39	6♍23	15°42	14°34	9°23	24°56	28°54	21°4	23°48	3°34	11°16	11°56	10°15	10°37	M14	
T 15	3 34 27	22°17'14	18°33	14°34	15°49	10°5	25°1	28°55	21°2	23°49	3°33	11°14	11°53	10°22	10°42	T 15	
W16	3 38 24	23°17'50	0♍57	13°34	17°5	10°46	25°6	28°57	21°0	23°50	3°32	11°12	11°49	10°28	10°46	W16	
T 17	3 42 20	24°18'27	13°40	12°44	18°20	11°28	25°11	28°58	20°57	23°52	3°31	11°9	11°46	10°35	10°50	T 17	
F 18	3 46 17	25°19'06	26°43	12°6	19°35	12°9	25°15	29°0	20°55	23°53	3°30	11°7	11°43	10°42	10°55	F 18	
S 19	3 50 13	26°19'46	10♍6	11°39	20°51	12°51	25°20	29°1	20°53	23°54	3°29	11°5	11°40	10°48	10°59	S 19	
S 20	3 54 10	27°20'27	23°49	11°23	22°6	13°32	25°24	29°3	20°51	23°55	3°28	11°3	11°37	10°55	11°4	S 20	
M21	3 58 7	28°21'10	7♍49	11°D19	23°22	14°14	25°28	29°5	20°48	23°57	3°27	11°D3	11°33	11°2	11°9	M21	
T 22	4 2 3	29°21'54	22°1	11°26	24°37	14°55	25°32	29°7	20°46	23°58	3°26	11°3	11°30	11°9	11°13	T 22	
W23	4 6 0	0♍22°39	6♍32	11°43	25°53	15°37	25°36	29°9	20°44	23°59	3°25	11°4	11°27	11°15	11°18	W23	
T 24	4 9 56	1°23'26	20°47	12°9	27°8	16°19	25°40	29°11	20°41	24°0	3°24	11°5	11°24	11°22	11°23	T 24	
F 25	4 13 53	2°24'15	5♍11	12°43	28°24	17°1	25°43	29°13	20°39	24°1	3°23	11°5	11°21	11°29	11°27	F 25	
S 26	4 17 49	3°25'04	19°30	13°24	29°39	17°42	25°46	29°16	20°37	24°2	3°22	11°6	11°18	11°35	11°32	S 26	
S 27	4 21 46	4°25'56	3♍42	14°12	0♍55	18°24	25°49	29°18	20°34	24°3	3°21	11°R6	11°14	11°42	11°37	S 27	
M28	4 25 42	5°26'48	17°44	15°6	2°10	19°6	25°52	29°21	20°32	24°4	3°20	11°6	11°11	11°49	11°42	M28	
T 29	4 29 39	6°27'42	1♍34	16°5	3°26	19°48	25°55	29°23	20°29	24°5	3°19	11°6	11°8	11°56	11°47	T 29	
W30	4 33 36	7♍28°38	15♍13	17♍8	4♍41	20♍30	25♍57	29♍26	20♍27	24♍6	3♍18	11♍5	11♍5	12♍2	11♍52	W30	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s16	8n16	5n 7	22s 5	2s31	9s42	1n15	11s17	0n25	14n25	0n46	13s37	1s49	23n19	0n 6	3n45	1n14
W 2	14 35	2 20	4 46	21 55	2 22	10 10	1 13	11 32	0 24	14 23	0 46	13 37	1 49	23 19	0 6	3 44	1 14
T 3	14 54	3s38	4 7	21 41	2 12	10 38	1 12	11 47	0 23	14 21	0 46	13 37	1 49	23 19	0 6	3 43	1 14
F 4	15 13	9 22	3 15	21 24	1 59	11 5	1 11	12 1	0 23	14 18	0 47	13 37	1 49	23 19	0 6	3 43	1 15
S 5	15 32	14 33	2 13	21 2	1 46	11 33	1 9	12 16	0 22	14 16	0 47	13 37	1 48	23 19	0 6	3 42	1 15
S 6	15 50	18 57	1 5	20 36	1 30	12 0	1 7	12 30	0 22	14 14	0 47	13 37	1 48	23 19	0 6	3 41	1 15
M 7	16 8	22 21	0s 4	20 7	1 13	12 26	1 6	12 45	0 21	14 13	0 47	13 36	1 48	23 19	0 6	3 41	1 15
T 8	16 26	24 35	1 12	19 33	0 55	12 53	1 4	12 59	0 21	14 11	0 48	13 36	1 48	23 18	0 6	3 40	1 15
W 9	16 44	25 35	2 16	18 57	0 36	13 19	1 2	13 13	0 20	14 9	0 48	13 36	1 48	23 18	0 6	3 40	1 15
T 10	17 1	25 21	3 12	18 17	0 15	13 44	1 1	13 27	0 20	14 7	0 48	13 35	1 48	23 18	0 6	3 39	1 15
F 11	17 18	27 57	4 0	17 36	0n 5	14 10	0 59	13 41	0 19	14 5	0 48	13 35	1 48	23 18	0 6	3 39	1 15
S 12	17 35	21 30	4 37	16 54	0 26	14 35	0 57	13 55	0 19	14 4	0 48	13 34	1 48	23 18	0 6	3 38	1 15
S 13	17 51	18 9	5 2	16 12	0 46	14 59	0 55	14 9	0 18	14 2	0 49	13 34	1 47	23 18	0 6	3 38	1 15
M14	18 7	14 3	5 14	15 33	1 5	15 24	0 53	14 23	0 17	14 1	0 49	13 33	1 47	23 18	0 6	3 37	1 15
T 15	18 23	9 20	5 13	14 56	1 22	15 47	0 51	14 36	0 17	13 59	0 49	13 33	1 47	23 18	0 6	3 36	1 15
W16	18 38	4 9	4 57	14 23	1 38	16 11	0 49	14 50	0 16	13 58	0 49	13 32	1 47	23 17	0 6	3 36	1 15
T 17	18 53	1n19	4 26	13 55	1 52	16 34	0 47	15 3	0 16	13 56	0 50	13 32	1 47	23 17	0 6	3 36	1 15
F 18	19 8	6 53	3 41	13 32	2 4	16 57	0 45	15 17	0 15	13 55	0 50	13 31	1 47	23 17	0 6	3 35	1 15
S 19	19 22	12 18	2 43	13 15	2 13	17 19	0 43	15 30	0 15	13 54	0 50	13 30	1 47	23 17	0 6	3 35	1 15
S 20	19 36	17 15	1 34	13 3	2 21	17 40	0 41	15 43	0 14	13 52	0 50	13 30	1 47	23 17	0 6	3 34	1 15
M21	19 50	21 22	0 18	12 56	2 27	18 2	0 39	15 56	0 13	13 51	0 51	13 29	1 46	23 17	0 7	3 34	1 15
T 22	20 3	24 15	1n 0	12 54	2 30	18 22	0 37	16 9	0 13	13 50	0 51	13 28	1 46	23 17	0 7	3 33	1 15
W23	20 16	25 36	2 16	12 57	2 33	18 43	0 34	16 21	0 12	13 49	0 51	13 27	1 46	23 16	0 7	3 33	1 15
T 24	20 29	25 13	3 23	13 4	2 34	19 2	0 32	16 34	0 12	13 48	0 51	13 26	1 46	23 16	0 7	3 32	1 15
F 25	20 41	23 10	4 17	13 15	2 33	19 21	0 30	16 46	0 11	13 47	0 52	13 25	1 46	23 16	0 7	3 32	1 15
S 26	20 53	19 40	4 55	13 29	2 32	19 40	0 28	16 59	0 11	13 46	0 52	13 24	1 46	23 16	0 7	3 32	1 15
S 27	21 4	15 3	5 14	13 46	2 29	19 58	0 25	17 11	0 10	13 45	0 52	13 23	1 46	23 16	0 7	3 31	1 16
M28	21 15	9 41	5 15	14 5	2 26	20 16	0 23	17 23	0 9	13 45	0 52	13 22	1 46	23 16	0 7	3 31	1 16
T 29	21 26	3 55	4 57	14 26	2 21	20 33	0 21	17 35	0 9	13 44	0 53	13 21	1 45	23 16	0 7	3 31	1 16
W30	21s36	1s58	4n23	14s48	2n17	20s49	0n18	17s47	0n 8	13n43	0n53	13s20	1s45	23n15	0n 7	3n30	1n16

Julian Day Number = 2309769.5, Delta T = 74.68 sec

Ecliptic obliquity = 23°29'26", Nutation = - 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°19'22", Lahiri = 18°26'22"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1611

geocentric

DECEMBER 1611 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 37 32	8♌29°34	28♌39	18♌15	5♌57	21♌12	26♌0	29♌29	20♌R24	24♌7	3♌R17	11♌R 5	11♌II 2	12♌9	11♌♌57	T 1
F 2	4 41 29	9°30'32	11♌53	19°26	7°12	21°54	26° 2	29°32	20♌II22	24° 8	3♌R17	11♌II 5	10°59	12°16	12° 2	F 2
S 3	4 45 25	10°31'31	24°52	20°39	8°28	22°36	26° 4	29°35	20°19	24° 9	3°16	11° 4	10°55	12°22	12° 7	S 3
S 4	4 49 22	11°32'31	7♌39	21°55	9°43	23°18	26° 5	29°38	20°17	24° 9	3°15	11° 4	10°52	12°29	12°12	S 4
M 5	4 53 18	12°33'32	20°12	23°12	10°59	24° 1	26° 7	29°41	20°14	24°10	3°14	11° 4	10°49	12°36	12°17	M 5
T 6	4 57 15	13°34'34	2♌33	24°32	12°14	24°43	26° 8	29°44	20°12	24°11	3°13	11° 4	10°46	12°42	12°23	T 6
W 7	5 1 11	14°35'37	14°42	25°53	13°30	25°25	26°10	29°48	20° 9	24°12	3°12	11° 4	10°43	12°49	12°28	W 7
T 8	5 5 8	15°36'40	26°42	27°16	14°45	26° 8	26°11	29°51	20° 7	24°12	3°11	11° 3	10°40	12°56	12°33	T 8
F 9	5 9 5	16°37'44	8♌36	28°40	16° 1	26°50	26°11	29°55	20° 4	24°13	3°11	11° 3	10°36	13° 3	12°38	F 9
S 10	5 13 1	17°38'49	20°27	0♌ 5	17°16	27°32	26°12	29°59	20° 2	24°13	3°10	11° 2	10°33	13° 9	12°44	S 10
S 11	5 16 58	18°39'53	2♌19	1°31	18°32	28°15	26°12	0♌ 2	19°59	24°14	3° 9	11° 1	10°30	13°16	12°49	S 11
M12	5 20 54	19°40'58	14°15	2°57	19°48	28°57	26°R12	0° 6	19°56	24°15	3° 8	11°D 1	10°27	13°23	12°54	M12
T 13	5 24 51	20°42'04	26°22	4°24	21° 3	29°40	26°12	0°10	19°54	24°15	3° 8	11° 1	10°24	13°29	13° 0	T 13
W14	5 28 47	21°43'10	8♌Y43	5°52	22°19	0♌22	26°12	0°14	19°51	24°15	3° 7	11° 1	10°20	13°36	13° 5	W14
T 15	5 32 44	22°44'16	21°23	7°21	23°34	1° 5	26°12	0°18	19°49	24°16	3° 6	11° 2	10°17	13°43	13°10	T 15
F 16	5 36 40	23°45'22	4♌25	8°50	24°50	1°47	26°11	0°23	19°46	24°16	3° 6	11° 3	10°14	13°50	13°16	F 16
S 17	5 40 37	24°46'29	17°52	10°19	26° 5	2°30	26°11	0°27	19°44	24°17	3° 5	11° 4	10°11	13°56	13°21	S 17
S 18	5 44 34	25°47'35	1♌II44	11°49	27°21	3°13	26°10	0°31	19°41	24°17	3° 4	11° 5	10° 8	14° 3	13°27	S 18
M19	5 48 30	26°48'43	16° 1	13°19	28°36	3°56	26° 8	0°36	19°38	24°17	3° 4	11°R 5	10° 5	14°10	13°32	M19
T 20	5 52 27	27°49'50	0♌36	14°50	29°52	4°38	26° 7	0°40	19°36	24°18	3° 3	11° 5	10° 1	14°16	13°38	T 20
W21	5 56 23	28°50'58	15°25	16°21	1♌ 7	5°21	26° 5	0°45	19°33	24°18	3° 3	11° 3	9°58	14°23	13°43	W21
T 22	6 0 20	29°52'06	0♌20	17°52	2°23	6° 4	26° 4	0°50	19°31	24°18	3° 2	11° 1	9°55	14°30	13°49	T 22
F 23	6 4 16	0♌53'15	15°11	19°23	3°38	6°47	26° 2	0°54	19°28	24°18	3° 2	10°58	9°52	14°37	13°54	F 23
S 24	6 8 13	1°54'24	29°53	20°55	4°53	7°30	26° 0	0°59	19°26	24°18	3° 1	10°55	9°49	14°43	14° 0	S 24
S 25	6 12 10	2°55'33	14♌18	22°27	6° 9	8°13	25°57	1° 4	19°23	24°18	3° 0	10°53	9°46	14°50	14° 6	S 25
M26	6 16 6	3°56'43	28°25	24° 0	7°24	8°56	25°55	1° 9	19°21	24°18	3° 0	10°D52	9°42	14°57	14°11	M26
T 27	6 20 3	4°57'53	12♌11	25°33	8°40	9°39	25°52	1°14	19°18	24°R18	3° 0	10°52	9°39	15° 3	14°17	T 27
W28	6 23 59	5°59'04	25°37	27° 6	9°55	10°22	25°49	1°19	19°16	24°18	2°59	10°53	9°36	15°10	14°22	W28
T 29	6 27 56	7° 0'15	8♌45	28°39	11°11	11° 5	25°46	1°24	19°14	24°18	2°59	10°55	9°33	15°17	14°28	T 29
F 30	6 31 52	8° 1'26	21°36	0♌13	12°26	11°49	25°43	1°30	19°11	24°18	2°58	10°57	9°30	15°23	14°34	F 30
S 31	6 35 49	9♌ 2'37	4♌14	1♌47	13♌42	12♌32	25♌39	1♌35	19♌II 9	24♌18	2♌58	10♌II58	9♌II26	15♌30	14♌39	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	21s46	7s41	3n34	15s12	2n11	21s 5	0n16	17s59	0n 8	13n43	0n53	13s19	1s45	23n15	0n 7	3n30
F 2	21 55	12 58	2 35	15 37	2 5	21 20	0 14	18 10	0 7	13 42	0 53	13 18	1 45	23 15	0 7	3 30
S 3	22 4	17 35	1 29	16 2	1 59	21 35	0 11	18 22	0 6	13 42	0 54	13 17	1 45	23 15	0 7	3 29
S 4	22 13	21 19	0 19	16 28	1 53	21 49	0 9	18 33	0 6	13 42	0 54	13 16	1 45	23 15	0 7	3 29
M 5	22 21	23 58	0s50	16 54	1 46	22 2	0 7	18 44	0 5	13 41	0 54	13 14	1 45	23 14	0 7	3 29
T 6	22 29	25 24	1 56	17 21	1 39	22 14	0 4	18 55	0 5	13 41	0 54	13 13	1 45	23 14	0 7	3 29
W 7	22 36	25 36	2 56	17 47	1 32	22 26	0 2	19 6	0 4	13 41	0 55	13 12	1 44	23 14	0 7	3 28
T 8	22 43	24 34	3 47	18 13	1 24	22 38	0s 1	19 16	0 3	13 41	0 55	13 10	1 44	23 14	0 7	3 28
F 9	22 49	22 27	4 28	18 39	1 17	22 48	0 3	19 27	0 3	13 41	0 55	13 9	1 44	23 14	0 7	3 28
S 10	22 55	19 23	4 57	19 5	1 9	22 58	0 5	19 37	0 2	13 41	0 55	13 8	1 44	23 14	0 7	3 28
S 11	23 0	15 32	5 13	19 30	1 2	23 7	0 8	19 47	0 1	13 41	0 56	13 6	1 44	23 13	0 7	3 28
M12	23 5	11 4	5 16	19 54	0 54	23 16	0 10	19 57	0 1	13 41	0 56	13 5	1 44	23 13	0 7	3 28
T 13	23 6	6 7	5 6	20 18	0 47	23 24	0 13	20 7	0 0	13 41	0 56	13 3	1 44	23 13	0 7	3 27
W14	23 14	0 50	4 41	20 41	0 39	23 31	0 15	20 17	0s 0	13 42	0 56	13 2	1 44	23 13	0 7	3 27
T 15	23 17	4n37	4 2	21 4	0 32	23 37	0 17	20 26	0 1	13 42	0 57	13 0	1 44	23 13	0 7	3 27
F 16	23 21	10 3	3 9	21 25	0 24	23 43	0 20	20 36	0 2	13 43	0 57	12 59	1 43	23 12	0 7	3 27
S 17	23 23	15 12	2 5	21 46	0 17	23 48	0 22	20 45	0 2	13 43	0 57	12 57	1 43	23 12	0 7	3 27
S 18	23 25	19 43	0 52	22 6	0 9	23 52	0 24	20 54	0 3	13 44	0 58	12 55	1 43	23 12	0 7	3 27
M19	23 27	23 12	0n27	22 25	0 2	23 56	0 27	21 2	0 4	13 44	0 58	12 54	1 43	23 12	0 7	3 27
T 20	23 28	25 15	1 46	22 42	0s 5	23 58	0 29	21 11	0 4	13 45	0 58	12 52	1 43	23 12	0 7	3 27
W21	23 29	25 33	2 58	22 59	0 12	24 0	0 31	21 19	0 5	13 46	0 58	12 50	1 43	23 12	0 7	3 27
T 22	23 29	24 1	3 59	23 15	0 19	24 1	0 33	21 27	0 6	13 47	0 59	12 48	1 43	23 11	0 7	3 27
F 23	23 29	20 50	4 44	23 30	0 26	24 2	0 36	21 35	0 6	13 47	0 59	12 47	1 43	23 11	0 7	3 27
S 24	23 29	16 21	5 9	23 43	0 32	24 2	0 38	21 43	0 7	13 48	0 59	12 45	1 43	23 11	0 7	3 27
S 25	23 27	11 1	5 14	23 55	0 39	24 1	0 40	21 51	0 8	13 49	0 59	12 43	1 43	23 11	0 7	3 27
M26	23 26	5 13	5 0	24 6	0 45	23 59	0 42	21 58	0 8	13 51	1 0	12 41	1 43	23 11	0 7	3 27
T 27	23 24	0s41	4 29	24 16	0 51	23 56	0 44	22 5	0 9	13 52	1 0	12 39	1 42	23 10	0 7	3 27
W28	23 21	6 27	3 44	24 25	0 57	23 53	0 46	22 12	0 10	13 53	1 0	12 37	1 42	23 10	0 7	3 27
T 29	23 18	11 48	2 48	24 32	1 3	23 49	0 48	22 19	0 10	13 54	1 0	12 35	1 42	23 10	0 7	3 27
F 30	23 15	16 31	1 44	24 38	1 9	23 44	0 50	22 26	0 11	13 56	1 1	12 33	1 42	23 10	0 7	3 27
S 31	23s11	20s26	0n37	24s43	1s14	23s39	0s52	22s32	0s12	13n57	1n 1	12s31	1s42	23n10	0n 7	3n27

Julian Day Number = 2309799.5, Delta T = 74.59 sec
 Ecliptic obliquity = 23°29'26", Nutation = - 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°19'26", Lahiri = 18°26'27"Greg. Calendar