



Astrodienst Ephemeris Tables for the year 1602

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 1602
geocentric

JANUARY 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 41 27	10°31'00	4°10	18°R56	8° 6	19°17	20°14	19°15	5°R29	2°R12	23°R15	23°R32	22°47	28°50	6°R 1	T 1
W 2	6 45 24	11°32'10	17°27	17°351	9°20	19°21	20°20	19°20	5°R28	2°11	23°15	23°D32	22°44	28°57	6° 0	W 2
T 3	6 49 20	12°33'19	18° 7	16°39	10°34	19°33	20°26	19°25	5°28	2°10	23°15	23°R33	22°41	29° 3	5°59	T 3
F 4	6 53 17	13°34'28	15°12	15°23	11°48	19°46	20°32	19°30	5°27	2° 9	23°15	23°34	22°38	29°10	5°57	F 4
S 5	6 57 14	14°35'37	29°40	14° 3	13° 2	19°58	20°37	19°36	5°27	2° 8	23°15	23°36	22°34	29°16	5°55	S 5
S 6	7 1 10	15°36'45	14°1130	12°43	14°16	20° 9	20°43	19°41	5°26	2° 7	23°15	23°37	22°31	29°23	5°53	S 6
M 7	7 5 7	16°37'53	29°35	11°26	15°30	20°20	20°48	19°46	5°26	2° 6	23°D15	23°R37	22°28	29°30	5°51	M 7
T 8	7 9 3	17°39'00	14°346	10°13	16°44	20°30	20°54	19°50	5°26	2° 5	23°15	23°36	22°25	29°36	5°49	T 8
W 9	7 13 0	18°40'06	29°55	9° 7	17°59	20°39	20°59	19°55	5°25	2° 4	23°15	23°33	22°22	29°43	5°47	W 9
T 10	7 16 56	19°41'12	14°152	8° 8	19°13	20°48	21° 4	20° 0	5°25	2° 3	23°15	23°30	22°19	29°50	5°45	T 10
F 11	7 20 53	20°42'18	29°28	7°18	20°27	20°57	21° 8	20° 5	5°25	2° 1	23°15	23°26	22°15	29°56	5°43	F 11
S 12	7 24 50	21°43'23	13°1739	6°38	21°41	21° 4	21°13	20° 9	5°25	2° 0	23°15	23°22	22°12	0°3 3	5°40	S 12
S 13	7 28 46	22°44'28	27°20	6° 7	22°56	21°12	21°17	20°14	5°D25	1°59	23°15	23°18	22° 9	0°10	5°38	S 13
M14	7 32 43	23°45'33	10°133	5°45	24°10	21°18	21°22	20°18	5°25	1°58	23°15	23°16	22° 6	0°16	5°35	M14
T 15	7 36 39	24°46'37	23°21	5°33	25°24	21°24	21°26	20°22	5°25	1°57	23°15	23°D15	22° 3	0°23	5°32	T 15
W16	7 40 36	25°47'41	5°1146	5°D29	26°39	21°29	21°30	20°27	5°25	1°55	23°16	23°16	21°59	0°30	5°29	W16
T 17	7 44 32	26°48'44	17°54	5°34	27°53	21°33	21°33	20°31	5°25	1°54	23°16	23°17	21°56	0°36	5°26	T 17
F 18	7 48 29	27°49'47	29°51	5°45	29° 8	21°37	21°37	20°35	5°25	1°53	23°16	23°19	21°53	0°43	5°23	F 18
S 19	7 52 25	28°50'49	11°140	6° 4	0°322	21°40	21°40	20°39	5°26	1°51	23°16	23°21	21°50	0°50	5°20	S 19
S 20	7 56 22	29°51'51	23°25	6°30	1°36	21°42	21°44	20°43	5°26	1°50	23°17	23°R21	21°47	0°56	5°17	S 20
M21	8 0 19	0°55'252	5°312	7° 1	2°51	21°44	21°47	20°47	5°26	1°49	23°17	23°21	21°44	1° 3	5°14	M21
T 22	8 4 15	1°53'52	17° 2	7°37	4° 5	21°45	21°49	20°51	5°27	1°47	23°17	23°18	21°40	1° 9	5°10	T 22
W23	8 8 12	2°54'52	28°59	8°18	5°20	21°R45	21°52	20°54	5°27	1°46	23°18	23°13	21°37	1°16	5° 7	W23
T 24	8 12 8	3°55'50	11°44	9° 4	6°34	21°44	21°55	20°58	5°28	1°44	23°18	23° 7	21°34	1°23	5° 3	T 24
F 25	8 16 5	4°56'47	23°18	9°53	7°49	21°43	21°57	21° 2	5°28	1°43	23°18	22°59	21°31	1°29	5° 0	F 25
S 26	8 20 1	5°57'43	5°142	10°47	9° 3	21°41	21°59	21° 5	5°29	1°42	23°19	22°50	21°28	1°36	4°56	S 26
S 27	8 23 58	6°58'38	18°18	11°43	10°18	21°38	22° 1	21° 8	5°30	1°40	23°19	22°42	21°25	1°43	4°52	S 27
M28	8 27 54	7°59'32	1°17 6	12°42	11°32	21°34	22° 3	21°12	5°31	1°39	23°20	22°36	21°21	1°49	4°48	M28
T 29	8 31 51	9° 0'24	14° 7	13°45	12°46	21°29	22° 4	21°15	5°31	1°37	23°20	22°31	21°18	1°56	4°44	T 29
W30	8 35 47	10° 1'15	27°24	14°49	14° 1	21°24	22° 6	21°18	5°32	1°36	23°21	22°28	21°15	2° 3	4°40	W30
T 31	8 39 44	11° 2'04	10°157	15°356	15°315	21°1718	22°12 7	21°1121	5°R33	1°1734	23°1721	22°D27	21°12	2°3 9	4°1736	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	23s 4	6n25	5n11	20s18	1n52	20s16	1n27	7n 4	3n 0	6s43	1n18	15s30	2n 9	12n58	0s26	11n24	0n44	6s47	17s 1	23s20	23s18	22s57	3n35	6s10					
W 2	22 59	11 19	4 50	20 8	2 11	20 30	1 25	7 0	3 1	6 45	1 18	15 32	2 9	12 58	0 26	11 24	0 44	6 46	17 1	23 20	23 17	22 56	3 35	6 10					
T 3	22 54	15 48	4 11	20 1	2 28	20 43	1 23	6 57	3 3	6 47	1 19	15 33	2 9	12 57	0 26	11 25	0 44	6 46	17 1	23 20	23 17	22 55	3 35	6 11					
F 4	22 48	19 34	3 17	19 54	2 43	20 55	1 20	6 53	3 5	6 49	1 19	15 34	2 9	12 57	0 26	11 25	0 44	6 46	17 0	23 20	23 17	22 54	3 36	6 11					
S 5	22 41	22 13	2 9	19 50	2 56	21 7	1 18	6 50	3 6	6 51	1 19	15 35	2 10	12 57	0 26	11 25	0 44	6 46	17 0	23 20	23 17	22 53	3 36	6 12					
S 6	22 34	23 25	0 50	19 47	3 7	21 19	1 16	6 47	3 8	6 53	1 19	15 37	2 10	12 57	0 26	11 26	0 44	6 45	17 0	23 20	23 17	22 52	3 36	6 12					
M 7	22 27	22 57	0s33	19 46	3 15	21 29	1 13	6 45	3 10	6 55	1 20	15 38	2 10	12 57	0 26	11 26	0 44	6 45	16 59	23 20	23 17	22 52	3 36	6 12					
T 8	22 19	20 47	1 54	19 46	3 21	21 39	1 11	6 42	3 11	6 56	1 20	15 39	2 10	12 57	0 26	11 27	0 44	6 45	16 59	23 20	23 16	22 51	3 37	6 13					
W 9	22 11	17 10	3 7	19 47	3 24	21 49	1 8	6 40	3 13	6 58	1 20	15 40	2 10	12 57	0 26	11 27	0 44	6 44	16 59	23 20	23 16	22 50	3 37	6 13					
T 10	22 3	12 29	4 6	19 50	3 25	21 58	1 5	6 38	3 15	7 0	1 20	15 41	2 10	12 57	0 26	11 27	0 44	6 44	16 58	23 20	23 16	22 49	3 38	6 14					
F 11	21 54	7 12	4 47	19 54	3 24	22 6	1 3	6 36	3 16	7 1	1 20	15 42	2 10	12 57	0 26	11 28	0 44	6 43	16 58	23 20	23 16	22 48	3 38	6 14					
S 12	21 44	1 41	5 10	19 59	3 21	22 14	1 0	6 35	3 18	7 3	1 21	15 43	2 11	12 57	0 26	11 28	0 44	6 43	16 57	23 19	23 16	22 47	3 39	6 14					
S 13	21 34	3s44	5 13	20 5	3 16	22 21	0 57	6 33	3 20	7 4	1 21	15 44	2 11	12 57	0 26	11 29	0 44	6 43	16 57	23 19	23 15	22 46	3 39	6 15					
M14	21 24	8 47	5 0	20 12	3 10	22 27	0 55	6 32	3 22	7 6	1 21	15 45	2 11	12 57	0 26	11 29	0 44	6 42	16 57	23 19	23 15	22 45	3 40	6 15					
T 15	21 13	13 18	4 32	20 20	3 3 22 33	0 52	6 32	3 23	7 7	7 1	21 15 46	2 11 12 57	0 26	11 30	0 44	6 42	16 56	23 19	23 15	22 45	3 41	6 15							
W16	21 2	17 7	3 52	20 28	2 55	22 38	0 49	6 31	3 25	7 8	1 22	15 47	2 11 12 57	0 26	11 30	0 44	6 42	16 56	23 19	23 15	22 44	3 41	6 16						
T 17	20 50	20 7	3 2	20 37	2 46	22 42	0 46	6 31	3 27	7 9	1 22	15 48	2 11 12 57	0 26	11 31	0 44	6 41	16 56	23 19	23 15	22 43	3 42	6 16						
F 18	20 38	22 12	2 5	20 45	2 37	22 46	0 44	6 31	3 28	7 10	1 22	15 49	2 12 12 57	0 26	11 31	0 44	6 41	16 55	23 19	23 14	22 42	3 43	6 16						
S 19	20 26	23 17	1 4	20 54	2 27	22 48	0 41	6 32	3 30	7 11	1 22	15 50	2 12 12 57	0 26	11 32	0 44	6 40	16 55	23 19	23 14	22 41	3 44	6 17						
S 20	20 13	23 19	0n 0	21 3	2 17	22 51	0 38	6 32	3 32	7 12	1 23	15 51	2 12 12 57	0 26	11 32	0 44	6 40	16 54	23 19	23 14	22 40	3 45	6 17						
M21	20 0	22 19	1 4	21 12	2 6	22 52	0 35	6 33	3 34	7 13	1 23	15 52	2 12 12 58	0 26	11 33	0 44	6 39	16 54	23 19	23 14	22 39	3 46	6 17						
T 22	19 47	20 20	2 6	21 21	1 56	22 53	0 32	6 35	3 35	7 14	1 23	15 53	2 12 12 58	0 26	11 33	0 44	6 39	16 54	23 19	23 14	22 38	3 47	6 17						
W23	19 33	17 26	3 2	21 29	1 45	22 53	0 30	6 36	3 37	7 15	1 23	15 53	2 12 12 58	0 26	11 34	0 44	6 38	16 53	23 19	23 14	22 37	3 48	6 18						
T 24	19 19	13 48	3 50	21 36	1 35	22 53	0 27	6 38	3 39	7 16	1 24	15 54	2 13 12 58	0 26	11 34	0 44	6 38	16 53	23 19	23 13	22 36	3 49	6 18						
F 25	19 4	9 33	4 29	21 43	1 24	22 52	0 24	6 40	3 40	7 16	1 24	15 55	2 13 12 58	0 26	11 35	0 44	6 38	16 53	23 18	23 13	22 35	3 50	6 18						
S 26	18 49	4 52	4 55	21 50	1 14	22 50	0 21	6 42	3 42	7 17	1 24	15 56	2 13 12 59	0 26	11 35	0 44	6 37	16 52	23 18	23 13	22 34	3 51	6 18						
S 27	18 34	0n 5	5 8	21 55	1 3	22 47	0 18	6 45	3 44	7 17	1 24	15 56	2 13 12 59	0 26	11 36	0 45	6 37	16 52	23 17	23 13	22 33	3 52	6 18						
M28	18 19	5 6	5 5	22 0	0 53	22 44	0 16	6 48	3 45	7 18	1 25	15 57	2 13 12 59	0 26	11 36	0 45	6 36	16 52	23 17	23 12	22 32	3 53	6 19						
T 29	18 3	9 59	4 47	22 4	0 43	22 40	0 13	6 51	3 47	7 18	1 25	15 58	2 13 12 59	0 25	11 37	0 45	6 36	16 51	23 17	23 12	22 31	3 55	6 19						
W30	17 46	14 30	4 13	22 7	0 33	22 35	0 10	6 55	3 48	7 18	1 25	15 58	2 14 13 0	0 25	11 37	0 45	6 35	16 51	23 17	23 12	22 31	3 56	6 19						
T 31	17s30	18n23	3n25	22s 9	0n24	22s30	0n 7	6n59	3n50	7s19	1n25	15s59	2n14	13n 0	0s25	11n38	0n45	6s35	16s51	23s16	23s12	22s30	3n57	6s19					

Julian Day Number = 2306178.5, Delta T = 86.19 sec
Ecliptic obliquity = 23°29'26", Nutation = 0°00'17", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°11'08", Lahiri = 18°18'09"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1602

geocentric

FEBRUARY 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 43 41	12 ²² 25'2	24 ⁸ 48	17 ³ 5	16 ³ 30	21°R11	22 ²² 8	21 ¹¹ 24	5 ⁸ 34	1°R32	23 ⁷ 22	22 ²⁷ 27	21 ⁷ 9	2 ³ 16	4°R32	F 1
S 2	8 47 37	13° 3'38	8 ¹¹ 58	18°16	17°44	21 ¹⁷ 3	22° 9	21°26	5°35	1 ¹⁷ 31	23°22	22°29	21° 5	2°23	4 ¹⁷ 28	S 2
S 3	8 51 34	14° 4'23	23°26	19°29	18°59	20°55	22° 9	21°29	5°36	1°29	23°23	22°R29	21° 2	2°29	4°24	S 3
M 4	8 55 30	15° 5'06	8 ²³ 8	20°43	20°13	20°46	22°10	21°32	5°37	1°28	23°23	22°28	20°59	2°36	4°20	M 4
T 5	8 59 27	16° 5'48	23° 1	22° 0	21°28	20°36	22°10	21°34	5°38	1°26	23°24	22°25	20°56	2°43	4°15	T 5
W 6	9 3 23	17° 6'28	7 ¹² 56	23°17	22°42	20°25	22°R10	21°37	5°39	1°25	23°25	22°19	20°53	2°49	4°11	W 6
T 7	9 7 20	18° 7'06	22°45	24°36	23°57	20°14	22°10	21°39	5°41	1°23	23°25	22°11	20°50	2°56	4° 7	T 7
F 8	9 11 17	19° 7'43	7 ¹⁷ 19	25°56	25°11	20° 1	22° 9	21°41	5°42	1°21	23°26	22° 2	20°46	3° 2	4° 2	F 8
S 9	9 15 13	20° 8'19	21°33	27°18	26°26	19°48	22° 9	21°43	5°43	1°20	23°27	21°52	20°43	3° 9	3°58	S 9
S 10	9 19 10	21° 8'53	5 ²⁰ 20	28°41	27°40	19°34	22° 8	21°45	5°45	1°18	23°27	21°43	20°40	3°16	3°53	S 10
M 11	9 23 6	22° 9'26	18°40	0 ²⁸ 5	28°55	19°20	22° 7	21°47	5°46	1°16	23°28	21°36	20°37	3°22	3°48	M 11
T 12	9 27 3	23° 9'58	1 ¹¹ 33	1°30	0 ²⁸ 10	19° 5	22° 6	21°49	5°48	1°15	23°29	21°31	20°34	3°29	3°44	T 12
W 13	9 30 59	24°10'29	14° 3	2°56	1°24	18°49	22° 5	21°51	5°49	1°13	23°30	21°29	20°31	3°36	3°39	W 13
T 14	9 34 56	25°10'58	26°13	4°24	2°39	18°32	22° 4	21°53	5°51	1°11	23°30	21°D28	20°27	3°42	3°34	T 14
F 15	9 38 52	26°11'26	8 ²⁷ 10	5°52	3°53	18°15	22° 2	21°54	5°52	1°10	23°31	21°29	20°24	3°49	3°30	F 15
S 16	9 42 49	27°11'52	19°59	7°22	5° 8	17°57	22° 0	21°55	5°54	1° 8	23°32	21°R29	20°21	3°56	3°25	S 16
S 17	9 46 46	28°12'18	1 ³ 45	8°52	6°22	17°38	21°58	21°57	5°56	1° 6	23°33	21°29	20°18	4° 2	3°20	S 17
M 18	9 50 42	29°12'41	13°34	10°24	7°37	17°19	21°56	21°58	5°58	1° 5	23°34	21°26	20°15	4° 9	3°16	M 18
T 19	9 54 39	0 ¹³ 13'03	25°28	11°57	8°51	16°59	21°53	21°59	5°59	1° 3	23°35	21°21	20°11	4°16	3°11	T 19
W 20	9 58 35	1°13'24	7 ²³ 33	13°30	10° 6	16°39	21°51	22° 0	6° 1	1° 1	23°36	21°13	20° 8	4°22	3° 6	W 20
T 21	10 2 32	2°13'43	19°49	15° 5	11°20	16°18	21°48	22° 1	6° 3	1° 0	23°37	21° 3	20° 5	4°29	3° 1	T 21
F 22	10 6 28	3°14'00	2 ¹⁸ 18	16°40	12°35	15°57	21°45	22° 2	6° 5	0°58	23°37	20°51	20° 2	4°36	2°56	F 22
S 23	10 10 25	4°14'15	15° 1	18°17	13°49	15°35	21°42	22° 3	6° 7	0°56	23°38	20°37	19°59	4°42	2°52	S 23
S 24	10 14 21	5°14'29	27°56	19°55	15° 4	15°13	21°39	22° 3	6° 9	0°55	23°39	20°25	19°56	4°49	2°47	S 24
M 25	10 18 18	6°14'40	11 ¹⁷ 4	21°33	16°18	14°51	21°35	22° 4	6°11	0°53	23°40	20°13	19°52	4°56	2°42	M 25
T 26	10 22 14	7°14'50	24°23	23°13	17°33	14°28	21°32	22° 4	6°13	0°51	23°41	20° 5	19°49	5° 2	2°37	T 26
W 27	10 26 11	8°14'58	7 ²⁸ 52	24°54	18°47	14° 5	21°28	22° 5	6°15	0°50	23°42	19°59	19°46	5° 9	2°32	W 27
T 28	10 30 8	9 ¹⁵ 15'03	21 ⁸ 32	26 ²⁸ 36	20 ²⁸ 2	13 ¹⁷ 42	21 ²⁴ 24	22 ¹¹ 5	6 ¹⁸ 18	0 ¹⁷ 48	23 ¹⁷ 43	19 ²⁷ 56	19 ²⁷ 43	5 ³ 15	2 ¹⁷ 28	T 28

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
F 1	17s13	21n20	2n24	22s10	0n14	22s24	0n 4	7n 3	3n51	7s19	1n26	16s 0	2n14	13n 0	0s25	F 1
S 2	16 56	23 2	1 12	22 9	0 5	22 17	0 2	7 7	3 53	7 19	1 26	16 0	2 14	13 1	0 25	S 2
S 3	16 38	23 15	0s 5	22 8	0s 4	22 10	0s 1	7 12	3 54	7 19	1 26	16 1	2 14	13 1	0 25	S 3
M 4	16 21	21 51	1 23	22 6	0 12	22 2	0 4	7 17	3 56	7 19	1 26	16 1	2 15	13 2	0 25	M 4
T 5	16 3	18 57	2 37	22 2	0 21	21 53	0 7	7 22	3 57	7 19	1 27	16 2	2 15	13 2	0 25	T 5
W 6	15 44	14 48	3 39	21 57	0 29	21 44	0 9	7 27	3 58	7 18	1 27	16 2	2 15	13 2	0 25	W 6
T 7	15 26	9 46	4 26	21 51	0 37	21 34	0 12	7 33	4 0	7 18	1 27	16 2	2 15	13 3	0 25	T 7
F 8	15 7	4 16	4 55	21 44	0 45	21 23	0 15	7 39	4 1	7 18	1 27	16 3	2 15	13 3	0 25	F 8
S 9	14 48	1s19	5 5	21 36	0 52	21 12	0 17	7 45	4 2	7 17	1 28	16 3	2 16	13 4	0 25	S 9
S 10	14 29	6 40	4 57	21 26	0 59	21 0	0 20	7 52	4 3	7 17	1 28	16 3	2 16	13 4	0 25	S 10
M 11	14 9	11 31	4 32	21 15	1 6	20 47	0 23	7 58	4 4	7 16	1 28	16 4	2 16	13 5	0 25	M 11
T 12	13 50	15 42	3 54	21 2	1 12	20 34	0 25	8 5	4 5	7 16	1 28	16 4	2 16	13 5	0 25	T 12
W 13	13 30	19 3	3 6	20 49	1 18	20 20	0 28	8 13	4 6	7 15	1 28	16 4	2 16	13 6	0 25	W 13
T 14	13 9	21 28	2 11	20 34	1 24	20 6	0 30	8 20	4 7	7 14	1 29	16 5	2 17	13 6	0 25	T 14
F 15	12 49	22 53	1 11	20 18	1 30	19 51	0 32	8 27	4 8	7 13	1 29	16 5	2 17	13 7	0 25	F 15
S 16	12 28	23 15	0 8	20 0	1 35	19 35	0 35	8 35	4 9	7 13	1 29	16 5	2 17	13 7	0 25	S 16
S 17	12 7	22 34	0n55	19 41	1 40	19 19	0 37	8 43	4 9	7 12	1 29	16 5	2 17	13 8	0 25	S 17
M 18	11 46	20 54	1 55	19 21	1 44	19 3	0 40	8 51	4 10	7 11	1 30	16 5	2 17	13 9	0 25	M 18
T 19	11 25	18 18	2 51	18 59	1 48	18 45	0 42	8 59	4 10	7 9	1 30	16 5	2 18	13 9	0 25	T 19
W 20	11 4	14 53	3 39	18 36	1 52	18 28	0 44	9 8	4 11	7 8	1 30	16 5	2 18	13 10	0 25	W 20
T 21	10 42	10 49	4 18	18 11	1 56	18 9	0 46	9 16	4 11	7 7	1 30	16 5	2 18	13 11	0 25	T 21
F 22	10 20	6 14	4 46	17 46	1 59	17 51	0 48	9 25	4 11	7 6	1 31	16 5	2 18	13 11	0 25	F 22
S 23	9 59	1 18	5 0	17 19	2 2	17 31	0 51	9 33	4 11	7 4	1 31	16 5	2 18	13 12	0 25	S 23
S 24	9 37	3n45	4 59	16 50	2 4	17 11	0 53	9 42	4 11	7 3	1 31	16 5	2 19	13 13	0 25	S 24
M 25	9 14	8 42	4 42	16 20	2 6	16 51	0 55	9 50	4 11	7 1	1 31	16 5	2 19	13 13	0 25	M 25
T 26	8 52	13 20	4 10	15 49	2 8	16 30	0 57	9 59	4 11	7 0	1 31	16 5	2 19	13 14	0 25	T 26
W 27	8 30	17 22	3 23	15 16	2 9	16 9	0 58	10 8	4 11	6 58	1 32	16 5	2 19	13 15	0 25	W 27
T 28	8s 7	20n30	2n24	14s42	2s 9	15s47	1s 0	10n16	4n10	6s57	1n32	16s 5	2n19	13n16	0s25	T 28

Julian Day Number = 2306209.5, Delta T = 86.08 sec

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

Ayanamsha: Fagan/Bradley = 19°11'13", Lahiri = 18°18'13"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1602
geocentric

MARCH 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 34 4	10 ¹¹ 15'06	5 ¹¹ 22	28 ¹⁹ 19	21 ¹⁶ 16	13 ¹⁸ 18	21 ²⁰ 20	22 ¹¹ 5	6 ²⁰ 20	0 ⁴⁶ 46	23 ⁴⁴ 44	19 ⁵⁵ 55	19 ⁴⁰ 40	5 ²² 22	2 ²³ 23	F 1
S 2	10 38 1	11 ¹⁵ 08	19 ²²	0 ³ 3	22 ³¹	12 ⁵⁵ 55	21 ¹⁵ 15	22 ⁵ 5	6 ²²	0 ⁴⁵ 45	23 ⁴⁶	19 ⁵⁵ 55	19 ³⁷	5 ²⁹ 29	2 ¹⁸ 18	S 2
S 3	10 41 57	12 ¹⁵ 07	3 ³³ 33	1 ⁴⁸	23 ⁴⁵	12 ³¹	21 ¹¹	22 ⁵ 5	6 ²⁵	0 ⁴³	23 ⁴⁷	19 ⁵⁴	19 ³³	5 ³⁵	2 ¹⁴	S 3
M 4	10 45 54	13 ¹⁵ 03	17 ⁵³	3 ³⁵	25 ⁰ 0	12 ⁷	21 ⁶	22 ⁵ 5	6 ²⁷	0 ⁴¹	23 ⁴⁸	19 ⁵²	19 ³⁰	5 ⁴²	2 ⁹	M 4
T 5	10 49 50	14 ¹⁴ 58	2 ²⁰ 20	5 ²²	26 ¹⁴	11 ⁴⁴	21 ¹	22 ⁴ 4	6 ²⁹	0 ⁴⁰	23 ⁴⁹	19 ⁴⁷	19 ²⁷	5 ⁴⁹	2 ⁴	T 5
W 6	10 53 47	15 ¹⁴ 50	16 ⁴⁹	7 ¹¹	27 ²⁹	11 ²⁰	20 ⁵⁷	22 ⁴ 4	6 ³²	0 ³⁸	23 ⁵⁰	19 ⁴⁰	19 ²⁴	5 ⁵⁵	2 ⁰	W 6
T 7	10 57 43	16 ¹⁴ 40	1 ¹¹ 15	9 ⁰	28 ⁴³	10 ⁵⁷	20 ⁵¹	22 ³ 3	6 ³⁴	0 ³⁷	23 ⁵¹	19 ³⁰	19 ²¹	6 ²	1 ⁵⁵	T 7
F 8	11 1 40	17 ¹⁴ 28	15 ³¹	10 ⁵¹	29 ⁵⁸	10 ³³	20 ⁴⁶	22 ³ 3	6 ³⁷	0 ³⁵	23 ⁵²	19 ¹⁸	19 ¹⁷	6 ⁹	1 ⁵¹	F 8
S 9	11 5 37	18 ¹⁴ 14	29 ³²	12 ⁴³	1 ¹¹ 12	10 ¹⁰	20 ⁴¹	22 ² 2	6 ³⁹	0 ³³	23 ⁵³	19 ⁵	19 ¹⁴	6 ¹⁵	1 ⁴⁶	S 9
S 10	11 9 33	19 ¹³ 58	13 ¹²	14 ³⁷	2 ²⁶	9 ⁴⁷	20 ³⁵	22 ¹ 1	6 ⁴²	0 ³²	23 ⁵⁴	18 ⁵³	19 ¹¹	6 ²²	1 ⁴²	S 10
M 11	11 13 30	20 ¹³ 40	26 ²⁸	16 ³¹	3 ⁴¹	9 ²⁴	20 ³⁰	22 ⁰ 0	6 ⁴⁴	0 ³⁰	23 ⁵⁶	18 ⁴⁴	19 ⁸	6 ²⁹	1 ³⁷	M 11
T 12	11 17 26	21 ¹³ 21	9 ¹¹ 22	18 ²⁶	4 ⁵⁵	9 ²	20 ²⁴	21 ⁵⁹	6 ⁴⁷	0 ²⁹	23 ⁵⁷	18 ³⁶	19 ⁵	6 ³⁵	1 ³³	T 12
W 13	11 21 23	22 ¹² 59	21 ⁵³	20 ²³	6 ¹⁰	8 ⁴⁰	20 ¹⁸	21 ⁵⁸	6 ⁵⁰	0 ²⁷	23 ⁵⁸	18 ³²	19 ²	6 ⁴²	1 ²⁹	W 13
T 14	11 25 19	23 ¹² 36	4 ¹¹ 15	22 ²¹	7 ²⁴	8 ¹⁸	20 ¹²	21 ⁵⁷	6 ⁵²	0 ²⁶	23 ⁵⁹	18 ³⁰	18 ⁵⁸	6 ⁴⁹	1 ²⁴	T 14
F 15	11 29 16	24 ¹² 11	16 ⁵	24 ¹⁹	8 ³⁸	7 ⁵⁷	20 ⁶	21 ⁵⁶	6 ⁵⁵	0 ²⁴	24 ⁰	18 ²⁹	18 ⁵⁵	6 ⁵⁵	1 ²⁰	F 15
S 16	11 33 12	25 ¹¹ 45	27 ⁵⁶	26 ¹⁹	9 ⁵³	7 ³⁶	19 ⁵⁹	21 ⁵⁴	6 ⁵⁸	0 ²³	24 ²	18 ²⁹	18 ⁵²	7 ²	1 ¹⁶	S 16
S 17	11 37 9	26 ¹¹ 16	9 ³⁴	28 ¹⁹	11 ⁷	7 ¹⁶	19 ⁵³	21 ⁵³	7 ¹	0 ²¹	24 ³	18 ²⁸	18 ⁴⁹	7 ⁹	1 ¹²	S 17
M 18	11 41 6	27 ¹⁰ 46	21 ³⁴	0 ²⁰ 20	12 ²²	6 ⁵⁶	19 ⁴⁶	21 ⁵¹	7 ³	0 ²⁰	24 ⁴	18 ²⁶	18 ⁴⁶	7 ¹⁵	1 ⁸	M 18
T 19	11 45 2	28 ¹⁰ 14	3 ¹¹ 32	2 ²¹	13 ³⁶	6 ³⁶	19 ⁴⁰	21 ⁵⁰	7 ⁶	0 ¹⁸	24 ⁵	18 ²²	18 ⁴²	7 ²²	1 ⁴	T 19
W 20	11 48 59	29 ⁹ 40	15 ⁴²	4 ²³	14 ⁵⁰	6 ¹⁸	19 ³³	21 ⁴⁸	7 ⁹	0 ¹⁷	24 ⁷	18 ¹⁴	18 ³⁹	7 ²⁸	1 ⁰	W 20
T 21	11 52 55	0 ⁹ 04	28 ⁷	6 ²⁵	16 ⁵	6 ⁰	19 ²⁶	21 ⁴⁶	7 ¹²	0 ¹⁵	24 ⁸	18 ⁵	18 ³⁶	7 ³⁵	0 ⁵⁶	T 21
F 22	11 56 52	1 ⁸ 26	10 ¹¹ 50	8 ²⁷	17 ¹⁹	5 ⁴²	19 ¹⁹	21 ⁴⁴	7 ¹⁵	0 ¹⁴	24 ⁹	17 ⁵³	18 ³³	7 ⁴²	0 ⁵²	F 22
S 23	12 0 48	2 ⁷ 47	23 ⁵⁰	10 ²⁹	18 ³³	5 ²⁵	19 ¹²	21 ⁴²	7 ¹⁸	0 ¹³	24 ¹¹	17 ⁴⁰	18 ³⁰	7 ⁴⁸	0 ⁴⁹	S 23
S 24	12 4 45	3 ⁷ 05	7 ¹¹ 6	12 ²⁹	19 ⁴⁸	5 ⁹	19 ⁵	21 ⁴⁰	7 ²¹	0 ¹¹	24 ¹²	17 ²⁸	18 ²⁷	7 ⁵⁵	0 ⁴⁵	S 24
M 25	12 8 41	4 ⁶ 21	20 ³⁸	14 ²⁹	21 ²	4 ⁵⁴	18 ⁵⁸	21 ³⁸	7 ²⁴	0 ¹⁰	24 ¹³	17 ¹⁷	18 ²³	8 ²	0 ⁴¹	M 25
T 26	12 12 38	5 ⁵ 35	4 ¹¹ 21	16 ²⁸	22 ¹⁶	4 ³⁹	18 ⁵¹	21 ³⁵	7 ²⁷	0 ⁹	24 ¹⁵	17 ⁸	18 ²⁰	8 ⁸	0 ³⁸	T 26
W 27	12 16 34	6 ⁴ 47	18 ¹³	18 ²⁴	23 ³¹	4 ²⁵	18 ⁴⁴	21 ³³	7 ³⁰	0 ⁷	24 ¹⁶	17 ²	18 ¹⁷	8 ¹⁵	0 ³⁵	W 27
T 28	12 20 31	7 ³ 57	2 ¹¹ 12	20 ¹⁹	24 ⁴⁵	4 ¹²	18 ³⁶	21 ³⁰	7 ³³	0 ⁶	24 ¹⁷	16 ⁵⁹	18 ¹⁴	8 ²²	0 ³¹	T 28
F 29	12 24 28	8 ³ 04	16 ¹⁴	22 ¹¹	25 ⁵⁹	3 ⁵⁹	18 ²⁹	21 ²⁸	7 ³⁶	0 ⁵	24 ¹⁹	16 ⁵⁹	18 ¹¹	8 ²⁸	0 ²⁸	F 29
S 30	12 28 24	9 ² 09	0 ¹¹ 19	24 ¹	27 ¹³	3 ⁴⁸	18 ²¹	21 ²⁵	7 ³⁹	0 ⁴	24 ²⁰	16 ⁵⁹	18 ⁸	8 ³⁵	0 ²⁵	S 30
S 31	12 32 21	10 ¹¹ 12	14 ¹¹ 26	25 ¹¹ 47	28 ¹¹ 28	3 ¹¹ 37	18 ¹¹ 14	21 ¹¹ 23	7 ¹¹ 43	0 ¹¹ 2	24 ¹¹ 21	16 ¹¹ 59	18 ¹¹ 4	8 ¹¹ 42	0 ¹¹ 22	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	7s44	22n30	1n16	14s 7	2s10	15s25	1s 2	10n25	4n10	6s55	1n32	16s 5	2n20	13n16	0s25	11n55	0n45	6s18	16s42	23s 6	23s 5	21s59	4n47	6s16			
S 2	7 22	23 7	0 3	13 30	2 10	15 3	1 4	10 34	4 9	6 53	1 32	16 5	2 20	13 17	0 25	11 56	0 45	6 18	16 42	23 6	23 5	21 58	4 49	6 16			
S 3	6 59	22 15	1s12	12 52	2 9	14 40	1 6	10 42	4 9	6 51	1 32	16 4	2 20	13 18	0 25	11 57	0 45	6 17	16 41	23 6	23 5	21 57	4 51	6 16			
M 4	6 36	19 57	2 22	12 12	2 8	14 16	1 7	10 50	4 8	6 49	1 33	16 4	2 20	13 19	0 25	11 57	0 45	6 16	16 41	23 6	23 4	21 56	4 53	6 15			
T 5	6 13	16 22	3 24	11 31	2 6	13 53	1 9	10 59	4 7	6 47	1 33	16 4	2 20	13 19	0 25	11 58	0 45	6 16	16 41	23 6	23 4	21 55	4 55	6 15			
W 6	5 50	11 48	4 13	10 49	2 4	13 28	1 10	11 7	4 6	6 45	1 33	16 4	2 20	13 20	0 25	11 58	0 45	6 15	16 41	23 5	23 4	21 54	4 57	6 15			
T 7	5 26	6 36	4 46	10 6	2 2	13 4	1 12	11 15	4 5	6 43	1 33	16 3	2 21	13 21	0 24	11 59	0 45	6 15	16 40	23 4	23 4	21 52	4 59	6 14			
F 8	5 3	1 7	5 0	9 21	1 59	12 39	1 13	11 23	4 4	6 41	1 33	16 3	2 21	13 22	0 24	11 59	0 45	6 14	16 40	23 3	23 3	21 51	5 1	6 14			
S 9	4 40	4s20	4 55	8 35	1 55	12 14	1 15	11 30	4 2	6 39	1 33	16 3	2 21	13 23	0 24	12 0	0 45	6 13	16 40	23 2	23 3	21 50	5 3	6 13			
S 10	4 16	9 26	4 34	7 47	1 51	11 48	1 16	11 38	4 1	6 37	1 34	16 2	2 21	13 24	0 24	12 1	0 45	6 13	16 40	23 1	23 3	21 49	5 5	6 13			
M11	3 53	13 56	3 58	6 58	1 47	11 23	1 17	11 45	3 59	6 34	1 34	16 2	2 21	13 25	0 24	12 1	0 45	6 12	16 40	23 1	23 3	21 48	5 7	6 13			
T 12	3 29	17 40	3 11	6 8	1 42	10 56	1 18	11 52	3 58	6 32	1 34	16 1	2 22	13 25	0 24	12 2	0 45	6 12	16 39	23 0	23 2	21 47	5 9	6 12			
W13	3 6	20 28	2 16	5 17	1 36	10 30	1 19	11 59	3 56	6 30	1 34	16 1	2 22	13 26	0 24	12 2	0 45	6 11	16 39	23 0	23 2	21 45	5 11	6 12			
T 14	2 42	22 15	1 16	4 25	1 30	10 3	1 20	12 6	3 55	6 27	1 34	16 0	2 22	13 27	0 24	12 3	0 45	6 10	16 39	22 59	23 2	21 44	5 13	6 11			
F 15	2 18	22 58	0 13	3 32	1 23	9 36	1 21	12 12	3 53	6 25	1 34	16 0	2 22	13 28	0 24	12 3	0 45	6 10	16 39	22 59	23 2	21 43	5 15	6 11			
S 16	1 55	22 39	0n50	2 38	1 16	9 9	1 22	12 18	3 51	6 22	1 34	15 59	2 22	13 29	0 24	12 4	0 45	6 9	16 39	22 59	23 1	21 42	5 17	6 10			
S 17	1 31	21 18	1 50	1 43	1 8	8 41	1 23	12 24	3 49	6 20	1 35	15 59	2 23	13 30	0 24	12 4	0 45	6 9	16 38	22 59	23 1	21 41	5 19	6 10			
M18	1 7	19 2	2 46	0 47	1 0	8 14	1 24	12 30	3 47	6 17	1 35	15 58	2 23	13 31	0 24	12 5	0 45	6 8	16 38	22 59	23 1	21 39	5 21	6 9			
T 19	0 44	15 55	3 35	0n10	0 51	7 46	1 25	12 35	3 45	6 15	1 35	15 58	2 23	13 32	0 24	12 5	0 45	6 7	16 38	22 59	23 1	21 38	5 22	6 8			
W20	0 20	12 6	4 15	1 7	0 42	7 18	1 25	12 40	3 43	6 12	1 35	15 57	2 23	13 33	0 24	12 6	0 45	6 7	16 38	22 58	23 0	21 37	5 24	6 8			
T 21	0n 4	7 43	4 43	2 4	0 32	6 49	1 26	12 45	3 41	6 9	1 35	15 56	2 23	13 34	0 24	12 6	0 45	6 6	16 38	22 57	23 0	21 36	5 26	6 7			
F 22	0 27	2 55	4 59	3 2	0 21	6 21	1 26	12 49	3 38	6 7	1 35	15 56	2 23	13 35	0 24	12 7	0 45	6 6	16 38	22 56	23 0	21 35	5 28	6 7			
S 23	0 51	2n 8	4 59	3 59	0 11	5 52	1 27	12 53	3 36	6 4	1 35	15 55	2 24	13 36	0 24	12 7	0 45	6 5	16 37	22 55	22 59	21 33	5 30	6 6			
S 24	1 15	7 10	4 44	4 57	0n 0	5 23	1 27	12 57	3 34	6 1	1 35	15 54	2 24	13 37	0 24	12 8	0 45	6 4	16 37	22 54	22 59	21 32	5 32	6 5			
M25	1 38	11 58	4 12	5 54	0 12	4 54	1 28	13 1	3 31	5 58	1 35	15 54	2 24	13 38	0 24	12 8	0 45	6 4	16 37	22 53	22 59	21 31	5 34	6 5			
T 26	2 2	16 13	3 26	6 50	0 23	4 25	1 28	13 4	3 29	5 56	1 35	15 53	2 24	13 39	0 24	12 9	0 45	6 3	16 37	22 52	22 59	21 30	5 35	6 4			
W27	2 25	19 38	2 26	7 46	0 35	3 56	1 28	13 7	3 27	5 53	1 35	15 52	2 24	13 40	0 24	12 9	0 45	6 3	16 37	22 51	22 58	21 29	5 37	6 4			
T 28	2 49	21 55	1 18	8 40	0 46	3 26	1 28	13 9	3 24	5 50	1 35	15 51	2 24	13 41	0 24	12 10	0 45	6 2	16 37	22 51	22 58	21 27	5 39	6 3			
F 29	3 12	22 51	0 4	9 33	0 58	2 57	1 28	13 12	3 22	5 47	1 36	15 51	2 24	13 42	0 24	12 10	0 45	6 1	16 37	22 51	22 58	21 26	5 41	6 2			
S 30	3 35	22 19	1s10	10 25	1 10	2 27	1 28	13 14	3 19	5 44	1 36	15 50	2 25	13 43	0 24	12 11	0 45	6 1	16 37	22 51	22 58	21 25	5 42	6 2			
S 31	3n59	20n23	2s21	11n15	1n21	1s58	1s28	13n15	3n16	5s41	1n36	15s49	2n25	13n44	0s24	12n11	0n45	6s 0	16s36	22s51	22s57	21s24	5n44	6s 1			

ASTRODIENST EPHEMERIS for the year 1602

geocentric

APRIL 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 36 17	11°0'12"	28°34'	27°29'	29°42'	3°R27	18°R 6	21°R20	7°B46	0°R 1	24°V23	16°R58	18°A 1	8°B48	0°R19	M 1
T 2	12 40 14	11°59'10"	12°04'	29° 7'	0°V56	3°M17	17°A59	21°M17	7°49	0°M 0	24°24	16°A54	17°58	8°55	0°M16	T 2
W 3	12 44 10	12°58'05"	26°45'	0°B41	2°10	3° 9	17°51	21°14	7°52	29°L59	24°25	16°48	17°55	9° 2	0°14	W 3
T 4	12 48 7	13°56'59"	10°M43	2°11	3°25	3° 1	17°43	21°11	7°55	29°58	24°27	16°40	17°52	9° 8	0°11	T 4
F 5	12 52 3	14°55'49"	24°33'	3°36	4°39	2°54	17°36	21° 8	7°59	29°57	24°28	16°30	17°48	9°15	0° 8	F 5
S 6	12 56 0	15°54'38"	8°A 9	4°56	5°53	2°48	17°28	21° 5	8° 2	29°56	24°29	16°20	17°45	9°22	0° 6	S 6
S 7	12 59 57	16°53'25"	21°30'	6°10	7° 7	2°42	17°20	21° 1	8° 5	29°55	24°31	16°10	17°42	9°28	0° 4	S 7
M 8	13 3 53	17°52'10"	4°M33	7°19	8°21	2°38	17°13	20°58	8° 8	29°54	24°32	16° 2	17°39	9°35	0° 1	M 8
T 9	13 7 50	18°50'53"	17°17'	8°23	9°35	2°34	17° 5	20°55	8°12	29°53	24°34	15°56	17°36	9°42	29°L59	T 9
W10	13 11 46	19°49'34"	29°43'	9°21	10°49	2°31	16°57	20°51	8°15	29°52	24°35	15°52	17°33	9°48	29°57	W10
T 11	13 15 43	20°48'14"	11°A54	10°13	12° 4	2°28	16°50	20°48	8°18	29°51	24°36	15°D51	17°29	9°55	29°55	T 11
F 12	13 19 39	21°46'51"	23°54'	10°59	13°18	2°27	16°42	20°44	8°22	29°50	24°38	15°51	17°26	10° 2	29°53	F 12
S 13	13 23 36	22°45'27"	5°B45	11°39	14°32	2°26	16°34	20°40	8°25	29°49	24°39	15°52	17°23	10° 8	29°51	S 13
S 14	13 27 32	23°44'01"	17°34'	12°14	15°46	2°D26	16°27	20°37	8°29	29°48	24°40	15°53	17°20	10°15	29°50	S 14
M15	13 31 29	24°42'34"	29°26'	12°42	17° 0	2°27	16°19	20°33	8°32	29°47	24°42	15°R53	17°17	10°21	29°48	M15
T 16	13 35 26	25°41'05"	11°A25	13° 4	18°14	2°28	16°12	20°29	8°35	29°46	24°43	15°52	17°14	10°28	29°47	T 16
W17	13 39 22	26°39'34"	23°38'	13°21	19°28	2°30	16° 4	20°25	8°39	29°46	24°45	15°48	17°10	10°35	29°46	W17
T 18	13 43 19	27°38'01"	6°A 7	13°31	20°42	2°33	15°57	20°21	8°42	29°45	24°46	15°43	17° 7	10°41	29°44	T 18
F 19	13 47 15	28°36'27"	18°56'	13°R36	21°56	2°37	15°49	20°17	8°46	29°44	24°47	15°36	17° 4	10°48	29°43	F 19
S 20	13 51 12	29°34'51"	2°V 7	13°34	23°10	2°41	15°42	20°13	8°49	29°44	24°49	15°28	17° 1	10°55	29°42	S 20
S 21	13 55 8	0°B33'14"	15°39'	13°28	24°24	2°46	15°35	20° 9	8°52	29°43	24°50	15°20	16°58	11° 1	29°41	S 21
M22	13 59 5	1°31'34"	29°31'	13°16	25°38	2°51	15°27	20° 5	8°56	29°42	24°52	15°14	16°54	11° 8	29°41	M22
T 23	14 3 1	2°29'53"	13°B38	13° 0	26°52	2°58	15°20	20° 1	8°59	29°42	24°53	15° 8	16°51	11°15	29°40	T 23
W24	14 6 58	3°28'10"	27°56'	12°38	28° 6	3° 4	15°13	19°57	9° 3	29°41	24°54	15° 5	16°48	11°21	29°39	W24
T 25	14 10 55	4°26'26"	12°II20	12°13	29°20	3°12	15° 6	19°53	9° 6	29°41	24°56	15°D 4	16°45	11°28	29°39	T 25
F 26	14 14 51	5°24'39"	26°45'	11°44	0°B34	3°20	15° 0	19°49	9°10	29°40	24°57	15° 5	16°42	11°35	29°39	F 26
S 27	14 18 48	6°22'50"	11°B 7	11°13	1°48	3°29	14°53	19°44	9°13	29°40	24°58	15° 6	16°39	11°41	29°38	S 27
S 28	14 22 44	7°20'59"	25°23'	10°38	3° 2	3°38	14°46	19°40	9°17	29°39	25° 0	15° 7	16°35	11°48	29°D38	S 28
M29	14 26 41	8°19'07"	9°L31	10° 2	4°16	3°49	14°40	19°36	9°20	29°39	25° 1	15°R 8	16°32	11°55	29°38	M29
T 30	14 30 37	9°B17'12"	23°L29	9°B25	5°B30	3°M59	14°A33	19°M31	9°B24	29°L38	25°V 3	15°A 7	16°A29	12°B 1	29°L39	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	4n22	17n11	3s22	12n 2	1n33	1s28	1s28	13n16	3n14	5s38	1n36	15s48	2n25	13n45	0s24	12n11	0n45	6s 0	16s36	22s51	22s57	21s22	5n46	6s 0			
T 2	4 45	13 1	4 12	12 48	1 43	0 58	1 28	13 17	3 11	5 36	1 36	15 47	2 25	13 46	0 24	12 12	0 45	5 59	16 36	22 51	22 57	21 21	5 47	5 59			
W 3	5 8	8 9	4 46	13 31	1 54	0 28	1 27	13 18	3 9	5 33	1 36	15 46	2 25	13 47	0 24	12 12	0 45	5 59	16 36	22 50	22 56	21 20	5 49	5 59			
T 4	5 31	2 54	5 2	14 12	2 4	0n 2	1 27	13 19	3 6	5 30	1 36	15 45	2 25	13 48	0 24	12 13	0 45	5 58	16 36	22 49	22 56	21 18	5 51	5 58			
F 5	5 54	2s26	5 1	14 50	2 13	0 31	1 27	13 19	3 3	5 27	1 36	15 44	2 25	13 49	0 24	12 13	0 45	5 58	16 36	22 48	22 56	21 17	5 52	5 57			
S 6	6 16	7 34	4 42	15 25	2 22	1 1	1 26	13 19	3 1	5 24	1 36	15 44	2 25	13 50	0 24	12 13	0 45	5 57	16 36	22 47	22 56	21 16	5 54	5 57			
S 7	6 39	12 14	4 9	15 57	2 30	1 31	1 26	13 18	2 58	5 21	1 36	15 43	2 26	13 51	0 24	12 14	0 45	5 56	16 36	22 46	22 55	21 15	5 55	5 56			
M 8	7 2	16 14	3 22	16 27	2 37	2 1	1 25	13 17	2 56	5 18	1 36	15 42	2 26	13 52	0 24	12 14	0 45	5 56	16 36	22 45	22 55	21 13	5 57	5 55			
T 9	7 24	19 23	2 27	16 54	2 43	2 31	1 25	13 16	2 53	5 15	1 36	15 41	2 26	13 54	0 24	12 14	0 45	5 55	16 36	22 45	22 55	21 12	5 58	5 54			
W10	7 46	21 32	1 25	17 17	2 48	3 0	1 24	13 15	2 50	5 12	1 36	15 40	2 26	13 55	0 24	12 15	0 45	5 55	16 36	22 44	22 54	21 11	5 59	5 54			
T 11	8 8	22 37	0 21	17 38	2 52	3 30	1 23	13 13	2 48	5 9	1 36	15 39	2 26	13 56	0 24	12 15	0 45	5 54	16 36	22 44	22 54	21 9	6 1	5 53			
F 12	8 30	22 38	0n43	17 56	2 55	4 0	1 22	13 12	2 45	5 6	1 36	15 38	2 26	13 57	0 24	12 15	0 45	5 54	16 36	22 44	22 54	21 8	6 2	5 52			
S 13	8 52	21 37	1 45	18 10	2 57	4 29	1 21	13 9	2 43	5 4	1 35	15 37	2 26	13 58	0 24	12 16	0 45	5 53	16 36	22 44	22 53	21 7	6 4	5 51			
S 14	9 14	19 39	2 42	18 22	2 58	4 59	1 20	13 7	2 40	5 1	1 35	15 36	2 26	13 59	0 24	12 16	0 45	5 53	16 36	22 44	22 53	21 6	6 5	5 50			
M15	9 35	16 51	3 33	18 30	2 58	5 28	1 19	13 4	2 38	4 58	1 35	15 34	2 26	14 0	0 24	12 16	0 45	5 52	16 36	22 44	22 53	21 4	6 6	5 50			
T 16	9 57	13 19	4 15	18 36	2 57	5 57	1 18	13 2	2 35	4 55	1 35	15 33	2 26	14 1	0 24	12 17	0 45	5 52	16 36	22 44	22 53	21 3	6 7	5 49			
W17	10 18	9 11	4 46	18 38	2 54	6 27	1 17	12 58	2 32	4 52	1 35	15 32	2 26	14 2	0 24	12 17	0 45	5 51	16 36	22 44	22 52	21 2	6 9	5 48			
T 18	10 39	4 35	5 4	18 37	2 50	6 56	1 16	12 55	2 30	4 49	1 35	15 31	2 27	14 3	0 24	12 17	0 45	5 51	16 36	22 43	22 52	21 0	6 10	5 47			
F 19	11 0	0n20	5 8	18 34	2 44	7 24	1 15	12 51	2 27	4 47	1 35	15 30	2 27	14 5	0 24	12 17	0 45	5 50	16 36	22 43	22 52	20 59	6 11	5 46			
S 20	11 21	5 21	4 55	18 27	2 37	7 53	1 14	12 48	2 25	4 44	1 35	15 29	2 27	14 6	0 24	12 17	0 45	5 50	16 36	22 42	22 51	20 58	6 12	5 46			
S 21	11 41	10 16	4 27	18 17	2 29	8 22	1 12	12 44	2 22	4 41	1 35	15 28	2 27	14 7	0 24	12 18	0 45	5 49	16 36	22 41	22 51	20 56	6 13	5 45			
M22	12 2	14 46	3 41	18 5	2 20	8 50	1 11	12 39	2 20	4 39	1 35	15 27	2 27	14 8	0 24	12 18	0 45	5 49	16 36	22 40	22 51	20 55	6 14	5 44			
T 23	12 22	18 32	2 42	17 49	2 9	9 18	1 9	12 35	2 18	4 36	1 35	15 26	2 27	14 9	0 24	12 18	0 45	5 49	16 36	22 40	22 50	20 53	6 15	5 43			
W24	12 42	21 14	1 32	17 32	1 57	9 46	1 8	12 30	2 15	4 33	1 34	15 24	2 27	14 10	0 24	12 18	0 45	5 48	16 36	22 39	22 50	20 52	6 16	5 42			
T 25	13 2	22 34	0 15	17 12	1 44	10 14	1 6	12 25	2 13	4 31	1 34	15 23	2 27	14 11	0 24	12 18	0 45	5 48	16 36	22 39	22 50	20 51	6 17	5 42			
F 26	13 21	22 24	1s 3	16 49	1 30	10 41	1 5	12 20	2 10	4 28	1 34	15 22	2 27	14 12	0 24	12 19	0 45	5 47	16 36	22 39	22 49	20 49	6 18	5 41			
S 27	13 41	20 45	2 17	16 25	1 15	11 8	1 3	12 14	2 8	4 26	1 34	15 21	2 27	14 13	0 24	12 19	0 45	5 47	16 36	22 39	22 49	20 48	6 19	5 40			
S 28	14 0	17 48	3 22	16 0	1 0	11 35	1 2	12 9	2 6	4 23	1 34	15 20	2 27	14 15	0 24	12 19	0 45	5 46	16 36	22 39	22 49	20 47	6 20	5 39			
M29	14 18	13 50	4 14	15 33	0 43	12 2	1 0	12 3	2 4	4 21	1 34	15 19	2 27	14 16	0 24	12 19	0 45	5 46	16 36	22 40	22 48	20 45	6 20	5 38			
T 30	14n37	9n 9	4s50	15n 5	0m26	12n28	0s58	11n57	2n 1	4s19	1n34	15s17	2n27	14n17	0s24	12n19	0n45	5s46	16s36	22s39	22s48	20s44	6m21	5s37			

ASTRODIENST EPHEMERIS for the year 1602
geocentric

MAY 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	14 34 34	10♌15'15	7♎17	8°R48	6♌44	4♎10	14°R27	19°R27	9♌27	29°R38	25°Y 4	15°R 4	16♌26	12♌8	29♌39	W 1
T 2	14 38 30	11°13'16	20°54	8♌10	7°58	4°22	14♌20	19♎22	9°31	29♌38	25° 5	15♌0	16°23	12°15	29°39	T 2
F 3	14 42 27	12°11'15	4♌18	7°34	9°12	4°34	14°14	19°18	9°34	29°38	25° 7	14°56	16°19	12°21	29°40	F 3
S 4	14 46 24	13° 9'12	17°29	6°59	10°26	4°47	14° 8	19°14	9°37	29°37	25° 8	14°50	16°16	12°28	29°40	S 4
S 5	14 50 20	14° 7'08	0♎26	6°26	11°40	5° 1	14° 2	19° 9	9°41	29°37	25° 9	14°45	16°13	12°35	29°41	S 5
M 6	14 54 17	15° 5'02	13° 9	5°56	12°54	5°15	13°57	19° 5	9°44	29°37	25°11	14°41	16°10	12°41	29°42	M 6
T 7	14 58 13	16° 2'55	25°38	5°28	14° 8	5°29	13°51	19° 0	9°48	29°37	25°12	14°39	16° 7	12°48	29°43	T 7
W 8	15 2 10	17° 0'46	7♌54	5° 5	15°21	5°44	13°46	18°56	9°51	29°37	25°13	14°37	16° 4	12°55	29°44	W 8
T 9	15 6 6	17°58'36	19°59	4°45	16°35	5°59	13°40	18°51	9°55	29°37	25°14	14°D37	16° 0	13° 1	29°45	T 9
F 10	15 10 3	18°56'24	1♌55	4°29	17°49	6°15	13°35	18°47	9°58	29°37	25°16	14°38	15°57	13° 8	29°46	F 10
S 11	15 13 59	19°54'11	13°46	4°17	19° 3	6°32	13°30	18°42	10° 2	29°D37	25°17	14°40	15°54	13°15	29°48	S 11
S 12	15 17 56	20°51'57	25°35	4°10	20°17	6°48	13°25	18°38	10° 5	29°37	25°18	14°41	15°51	13°21	29°49	S 12
M13	15 21 53	21°49'42	7♌27	4°D 7	21°31	7° 6	13°20	18°33	10° 9	29°37	25°20	14°43	15°48	13°28	29°51	M13
T 14	15 25 49	22°47'26	19°27	4° 8	22°44	7°23	13°16	18°29	10°12	29°37	25°21	14°R44	15°45	13°35	29°52	T 14
W15	15 29 46	23°45'08	1♌39	4°15	23°58	7°41	13°11	18°25	10°15	29°37	25°22	14°43	15°41	13°41	29°54	W15
T 16	15 33 42	24°42'49	14° 7	4°26	25°12	8° 0	13° 7	18°20	10°19	29°37	25°23	14°42	15°38	13°48	29°56	T 16
F 17	15 37 39	25°40'30	26°57	4°41	26°26	8°19	13° 3	18°16	10°22	29°37	25°25	14°40	15°35	13°55	29°58	F 17
S 18	15 41 35	26°38'09	10°Y10	5° 1	27°40	8°38	12°59	18°11	10°25	29°37	25°26	14°38	15°32	14° 1	0♎0	S 18
S 19	15 45 32	27°35'47	23°48	5°25	28°53	8°58	12°55	18° 7	10°29	29°38	25°27	14°36	15°29	14° 8	0° 3	S 19
M20	15 49 28	28°33'24	7♌50	5°53	0♎7	9°18	12°51	18° 2	10°32	29°38	25°28	14°34	15°25	14°15	0° 5	M20
T 21	15 53 25	29°31'00	22°12	6°26	1°21	9°39	12°48	17°58	10°36	29°38	25°29	14°32	15°22	14°21	0° 8	T 21
W22	15 57 22	0♎28'35	6♎51	7° 2	2°35	10° 0	12°45	17°54	10°39	29°39	25°31	14°31	15°19	14°28	0°10	W22
T 23	16 1 18	1°26'09	21°39	7°43	3°48	10°21	12°42	17°49	10°42	29°39	25°32	14°D31	15°16	14°35	0°13	T 23
F 24	16 5 15	2°23'42	6♌29	8°27	5° 2	10°43	12°39	17°45	10°45	29°39	25°33	14°32	15°13	14°41	0°16	F 24
S 25	16 9 11	3°21'13	21°14	9°15	6°16	11° 5	12°36	17°41	10°49	29°40	25°34	14°33	15°10	14°48	0°19	S 25
S 26	16 13 8	4°18'43	5♌48	10° 6	7°30	11°27	12°33	17°37	10°52	29°40	25°35	14°34	15° 6	14°55	0°22	S 26
M27	16 17 4	5°16'12	20° 7	11° 2	8°44	11°50	12°31	17°33	10°55	29°41	25°36	14°34	15° 3	15° 1	0°25	M27
T 28	16 21 1	6°13'39	4♎8	12° 0	9°57	12°13	12°28	17°28	10°58	29°41	25°37	14°R35	15° 0	15° 8	0°28	T 28
W29	16 24 57	7°11'05	17°50	13° 2	11°11	12°37	12°26	17°24	11° 2	29°42	25°39	14°34	14°57	15°15	0°31	W29
T 30	16 28 54	8° 8'30	1♌15	14° 7	12°25	13° 0	12°24	17°20	11° 5	29°43	25°40	14°34	14°54	15°21	0°35	T 30
F 31	16 32 51	9♎5'53	14♌22	15♌15	13♎38	13♎24	12♌23	17♎16	11♌8	29♌43	25°Y41	14♌33	14♌51	15♌28	0♎38	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	14n56	4n 4	5s 9	14n37	0n 9	12n54	0s56	11n51	1n59	4s16	1n33	15s16	2n27	14n18	0s24	12n19	0n45	5s45	16s36	22s39	22s48	20s42	6n22	5s36
T 2	15 14	1s 8	5 10	14 8	0s 8	13 20	0 54	11 44	1 57	4 14	1 33	15 15	2 27	14 19	0 24	12 19	0 45	5 45	16 36	22 39	22 48	20 41	6 22	5 36
F 3	15 32	6 13	4 54	13 40	0 25	13 46	0 53	11 38	1 55	4 12	1 33	15 14	2 27	14 20	0 24	12 19	0 45	5 44	16 36	22 38	22 47	20 40	6 23	5 35
S 4	15 49	10 55	4 23	13 12	0 43	14 11	0 51	11 31	1 52	4 10	1 33	15 13	2 27	14 21	0 24	12 20	0 45	5 44	16 36	22 38	22 47	20 38	6 24	5 34
S 5	16 7	15 3	3 39	12 45	0 59	14 36	0 49	11 24	1 50	4 8	1 33	15 11	2 27	14 22	0 24	12 20	0 45	5 44	16 36	22 37	22 47	20 37	6 24	5 33
M 6	16 24	18 25	2 44	12 20	1 16	15 0	0 47	11 17	1 48	4 5	1 33	15 10	2 27	14 23	0 24	12 20	0 45	5 43	16 37	22 37	22 46	20 35	6 25	5 32
T 7	16 41	20 52	1 42	11 56	1 32	15 24	0 45	11 10	1 46	4 3	1 32	15 9	2 27	14 25	0 24	12 20	0 45	5 43	16 37	22 36	22 46	20 34	6 25	5 31
W 8	16 57	22 17	0 37	11 34	1 47	15 48	0 43	11 2	1 44	4 2	1 32	15 8	2 27	14 26	0 24	12 20	0 45	5 42	16 37	22 36	22 46	20 33	6 26	5 31
T 9	17 13	22 37	0n30	11 14	2 1	16 11	0 40	10 55	1 42	4 0	1 32	15 7	2 27	14 27	0 24	12 20	0 45	5 42	16 37	22 36	22 45	20 31	6 26	5 30
F 10	17 29	21 55	1 34	10 56	2 14	16 34	0 38	10 47	1 40	3 58	1 32	15 6	2 27	14 28	0 24	12 20	0 45	5 42	16 37	22 36	22 45	20 30	6 26	5 29
S 11	17 45	20 14	2 34	10 40	2 27	16 56	0 36	10 39	1 38	3 56	1 32	15 4	2 27	14 29	0 24	12 20	0 45	5 41	16 37	22 36	22 45	20 28	6 27	5 28
S 12	18 1	17 41	3 27	10 27	2 38	17 18	0 34	10 31	1 36	3 54	1 31	15 3	2 27	14 30	0 24	12 20	0 45	5 41	16 37	22 37	22 44	20 27	6 27	5 27
M13	18 16	14 23	4 11	10 16	2 49	17 40	0 32	10 23	1 34	3 53	1 31	15 2	2 27	14 31	0 24	12 20	0 45	5 41	16 37	22 37	22 44	20 26	6 27	5 26
T 14	18 31	10 30	4 46	10 8	2 58	18 1	0 30	10 14	1 32	3 51	1 31	15 1	2 27	14 32	0 24	12 20	0 44	5 41	16 38	22 37	22 44	20 24	6 27	5 26
W15	18 45	6 7	5 7	10 2	3 6	18 22	0 27	10 6	1 30	3 50	1 31	15 0	2 27	14 33	0 24	12 20	0 44	5 40	16 38	22 37	22 43	20 23	6 28	5 25
T 16	18 59	1 24	5 16	9 59	3 14	18 42	0 25	9 57	1 28	3 48	1 30	14 59	2 27	14 34	0 24	12 19	0 44	5 40	16 38	22 37	22 43	20 21	6 28	5 24
F 17	19 13	3n30	5 8	9 58	3 20	19 2	0 23	9 48	1 26	3 47	1 30	14 57	2 26	14 35	0 24	12 19	0 44	5 40	16 38	22 36	22 43	20 20	6 28	5 23
S 18	19 27	8 24	4 45	9 59	3 26	19 21	0 21	9 39	1 24	3 45	1 30	14 56	2 26	14 36	0 24	12 19	0 44	5 39	16 38	22 36	22 42	20 18	6 28	5 22
S 19	19 40	13 3	4 5	10 3	3 30	19 39	0 18	9 30	1 22	3 44	1 30	14 55	2 26	14 37	0 24	12 19	0 44	5 39	16 38	22 36	22 42	20 17	6 28	5 21
M20	19 53	17 8	3 9	10 9	3 33	19 58	0 16	9 20	1 21	3 43	1 30	14 54	2 26	14 38	0 24	12 19	0 44	5 39	16 38	22 36	22 41	20 15	6 28	5 21
T 21	20 5	20 18	2 0	10 18	3 36	20 15	0 14	9 11	1 19	3 42	1 29	14 53	2 26	14 40	0 24	12 19	0 44	5 39	16 39	22 36	22 41	20 14	6 28	5 20
W22	20 18	22 12	0 42	10 28	3 37	20 32	0 11	9 1	1 17	3 41	1 29	14 52	2 26	14 41	0 24	12 19	0 44	5 38	16 39	22 35	22 41	20 12	6 27	5 19
T 23	20 30	22 34	0s39	10 40	3 38	20 49	0 9	8 52	1 15	3 40	1 29	14 51	2 26	14 42	0 24	12 19	0 44	5 38	16 39	22 35	22 40	20 11	6 27	5 18
F 24	20 41	21 21	1 59	10 55	3 38	21 5	0 6	8 42	1 13	3 39	1 29	14 50	2 26	14 43	0 24	12 19	0 44	5 38	16 39	22 35	22 40	20 9	6 27	5 17
S 25	20 52	18 41	3 10	11 11	3 37	21 20	0 4	8 32	1 12	3 38	1 28	14 49	2 26	14 44	0 24	12 18	0 44	5 38	16 39	22 36	22 40	20 8	6 27	5 16
S 26	21 3	14 52	4 8	11 29	3 35	21 35	0 2	8 22	1 10	3 37	1 28	14 48	2 26	14 45	0 24	12 18	0 44	5 37	16 40	22 36	22 39	20 6	6 27	5 16
M27	21 14	10 14	4 49	11 48	3 32	21 49	0n 1	8 11	1 8	3 36	1 28	14 46	2 25	14 46	0 24	12 18	0 44	5 37	16 40	22 36	22 39	20 5	6 26	5 15
T 28	21 24	5 10	5 12	12 9	3 29	22 2	0 3	8 1	1 7	3 36	1 28	14 45	2 25	14 47	0 24	12 18	0 44	5 37	16 40	22 36	22 39	20 3	6 26	5 14
W29	21 33	0s 3	5 17	12 31	3 25	22 15	0 5	7 51	1 5	3 35	1 27	14 44	2 25	14 48	0 24	12 18	0 44	5 37	16 40	22 36	22 38	20 2	6 25	5 13
T 30	21 43	5 8	5 4	12 55	3 20	22 28	0 8	7 40	1 3	3 35	1 27	14 43	2 25	14 49	0 24	12 17	0 44	5 37	16 40	22 36	22 38	20 0	6 25	5 12
F 31	21n52	9s54	4s36	13n20	3s15	22n39	0n10	7n29	1n 2	3s34	1n27	14s42	2n25	14n50	0s24	12n17	0n44	5s37	16s41	22s36	22s38	19s59	6n24	5s12

ASTRODIENST EPHEMERIS for the year 1602

geocentric

JUNE 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 36 47	10II 3'16	27♂13	16♂27	14II52	13♂49	12°R21	17°R12	11♂11	29♂44	25♂42	14°R33	14♂47	15♂35	0♂42	S 1
S 2	16 40 44	11° 0'37	9♂49	17°41	16° 6	14°13	12♂20	17♂ 8	11°14	29°45	25°43	14♂32	14°44	15°41	0°46	S 2
M 3	16 44 40	11°57'58	22°14	18°59	17°19	14°38	12°19	17° 5	11°17	29°45	25°44	14°32	14°41	15°48	0°49	M 3
T 4	16 48 37	12°55'17	4♂27	20°19	18°33	15° 4	12°18	17° 1	11°20	29°46	25°45	14°32	14°38	15°55	0°53	T 4
W 5	16 52 33	13°52'36	16°31	21°43	19°47	15°29	12°17	16°57	11°24	29°47	25°46	14°D32	14°35	16° 1	0°57	W 5
T 6	16 56 30	14°49'54	28°29	23° 9	21° 1	15°55	12°16	16°53	11°27	29°48	25°47	14°R32	14°31	16° 8	1° 2	T 6
F 7	17 0 26	15°47'12	10♂21	24°39	22°14	16°21	12°16	16°50	11°30	29°48	25°48	14°32	14°28	16°15	1° 6	F 7
S 8	17 4 23	16°44'28	22°10	26°11	23°28	16°47	12°15	16°46	11°33	29°49	25°49	14°32	14°25	16°21	1°10	S 8
S 9	17 8 20	17°41'45	4♂ 0	27°46	24°42	17°14	12°D15	16°43	11°36	29°50	25°50	14°31	14°22	16°28	1°14	S 9
M10	17 12 16	18°39'01	15°53	29°24	25°55	17°41	12°15	16°39	11°39	29°51	25°51	14°31	14°19	16°35	1°19	M10
T 11	17 16 13	19°36'16	27°53	1II 5	27° 9	18° 8	12°15	16°36	11°41	29°52	25°51	14°30	14°16	16°41	1°24	T 11
W12	17 20 9	20°33'31	10♂ 4	2°49	28°23	18°35	12°16	16°32	11°44	29°53	25°52	14°30	14°12	16°48	1°28	W12
T 13	17 24 6	21°30'46	22°31	4°35	29°36	19° 3	12°17	16°29	11°47	29°54	25°53	14°D30	14° 9	16°55	1°33	T 13
F 14	17 28 2	22°28'01	5♂17	6°25	0♂50	19°31	12°17	16°26	11°50	29°55	25°54	14°30	14° 6	17° 1	1°38	F 14
S 15	17 31 59	23°25'15	18°26	8°16	2° 3	19°59	12°18	16°23	11°53	29°56	25°55	14°31	14° 3	17° 8	1°43	S 15
S 16	17 35 55	24°22'29	2♂ 0	10°11	3°17	20°27	12°19	16°20	11°56	29°57	25°56	14°31	14° 0	17°15	1°48	S 16
M17	17 39 52	25°19'43	16° 1	12° 8	4°31	20°56	12°21	16°17	11°58	29°59	25°57	14°32	13°57	17°21	1°53	M17
T 18	17 43 49	26°16'58	0II26	14° 7	5°44	21°25	12°22	16°14	12° 1	29°59	25°57	14°33	13°53	17°28	1°58	T 18
W19	17 47 45	27°14'12	15°14	16° 8	6°58	21°54	12°24	16°11	12° 4	0♂ 1	25°58	14°R33	13°50	17°35	2° 3	W19
T 20	17 51 42	28°11'25	0♂15	18°12	8°12	22°23	12°26	16° 8	12° 6	0° 2	25°59	14°33	13°47	17°41	2° 9	T 20
F 21	17 55 38	29° 8'39	15°23	20°17	9°25	22°53	12°28	16° 6	12° 9	0° 3	26° 0	14°32	13°44	17°48	2°14	F 21
S 22	17 59 35	0♂ 5'52	0♂29	22°23	10°39	23°22	12°30	16° 3	12°12	0° 5	26° 0	14°30	13°41	17°55	2°20	S 22
S 23	18 3 31	1° 3'05	15°22	24°32	11°53	23°52	12°32	16° 1	12°14	0° 6	26° 1	14°28	13°37	18° 1	2°25	S 23
M24	18 7 28	2° 0'17	29°56	26°41	13° 6	24°22	12°35	15°58	12°17	0° 7	26° 2	14°26	13°34	18° 8	2°31	M24
T 25	18 11 24	2°57'28	14♂ 8	28°51	14°20	24°53	12°38	15°56	12°19	0° 9	26° 2	14°25	13°31	18°15	2°37	T 25
W26	18 15 21	3°54'40	1♂ 1	15°34	15°34	25°23	12°40	15°53	12°22	0°10	26° 3	14°D24	13°28	18°21	2°43	W26
T 27	18 19 18	4°51'51	11♂16	3°12	16°47	25°54	12°43	15°51	12°24	0°12	26° 4	14°24	13°25	18°28	2°49	T 27
F 28	18 23 14	5°49'01	24°15	5°22	18° 1	26°25	12°47	15°49	12°26	0°13	26° 4	14°25	13°22	18°35	2°55	F 28
S 29	18 27 11	6°46'12	6♂54	7°33	19°14	26°56	12°50	15°47	12°29	0°14	26° 5	14°26	13°18	18°41	3° 1	S 29
S 30	18 31 7	7♂43'22	19♂18	9♂42	20♂28	27♂28	12♂54	15♂45	12♂31	0♂16	26♂ 5	14♂28	13♂15	18♂48	3♂ 7	S 30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	22n 0	14s 8	3s54	13n46	3s 9	22n50	0n13	7n18	1n 0	3s34	1n26	14s41	2n25	14n51	0s24	12n17
S 2	22 9	17 39	3 1	14 13	3 2	23 1	0 15	7 7	0 59	3 34	1 26	14 41	2 25	14 52	0 24	12 17
M 3	22 16	20 19	2 1	14 41	2 55	23 10	0 17	6 56	0 57	3 33	1 26	14 40	2 25	14 53	0 24	12 16
T 4	22 24	21 59	0 56	15 10	2 48	23 19	0 20	6 45	0 55	3 33	1 26	14 39	2 24	14 54	0 24	12 16
W 5	22 31	22 37	0n11	15 40	2 39	23 28	0 22	6 34	0 54	3 33	1 25	14 38	2 24	14 54	0 24	12 16
T 6	22 38	22 12	1 17	16 10	2 31	23 35	0 24	6 22	0 52	3 33	1 25	14 37	2 24	14 55	0 24	12 15
F 7	22 44	20 47	2 19	16 41	2 22	23 42	0 27	6 11	0 51	3 33	1 25	14 36	2 24	14 56	0 24	12 15
S 8	22 50	18 28	3 14	17 12	2 12	23 49	0 29	5 59	0 49	3 33	1 25	14 35	2 24	14 57	0 24	12 15
S 9	22 55	15 23	4 2	17 43	2 2	23 54	0 31	5 47	0 48	3 34	1 24	14 34	2 24	14 58	0 24	12 14
M10	23 0	11 40	4 39	18 15	1 52	23 59	0 34	5 35	0 46	3 34	1 24	14 34	2 23	14 59	0 24	12 14
T 11	23 5	7 28	5 4	18 46	1 41	24 3	0 36	5 24	0 45	3 34	1 24	14 33	2 23	15 0	0 24	12 14
W12	23 9	2 55	5 16	19 17	1 30	24 7	0 38	5 11	0 44	3 35	1 23	14 32	2 23	15 1	0 24	12 13
T 13	23 13	1n50	5 14	19 48	1 19	24 10	0 40	4 59	0 42	3 35	1 23	14 31	2 23	15 2	0 24	12 13
F 14	23 17	6 38	4 57	20 19	1 8	24 12	0 42	4 47	0 41	3 36	1 23	14 31	2 23	15 3	0 24	12 13
S 15	23 20	11 18	4 24	20 48	0 57	24 13	0 44	4 35	0 39	3 36	1 23	14 30	2 22	15 3	0 24	12 12
S 16	23 22	15 33	3 35	21 17	0 45	24 13	0 47	4 22	0 38	3 37	1 22	14 29	2 22	15 4	0 24	12 12
M17	23 24	19 5	2 32	21 44	0 33	24 13	0 49	4 10	0 37	3 38	1 22	14 28	2 22	15 5	0 24	12 11
T 18	23 26	21 33	1 17	22 11	0 22	24 13	0 51	3 57	0 35	3 39	1 22	14 28	2 22	15 6	0 24	12 11
W19	23 28	22 36	0s 4	22 35	0 11	24 11	0 53	3 44	0 34	3 39	1 22	14 27	2 22	15 7	0 24	12 11
T 20	23 29	22 3	1 26	22 58	0n 1	24 9	0 55	3 32	0 33	3 40	1 21	14 27	2 21	15 8	0 24	12 10
F 21	23 29	19 54	2 43	23 19	0 12	24 6	0 57	3 19	0 31	3 41	1 21	14 26	2 21	15 8	0 24	12 10
S 22	23 29	16 23	3 48	23 38	0 22	24 2	0 58	3 6	0 30	3 43	1 21	14 26	2 21	15 9	0 24	12 9
S 23	23 29	11 52	4 36	23 55	0 32	23 58	1 0	2 53	0 29	3 44	1 20	14 25	2 21	15 10	0 24	12 9
M24	23 28	6 44	5 6	24 9	0 42	23 52	1 2	2 40	0 28	3 45	1 20	14 25	2 21	15 11	0 24	12 8
T 25	23 27	1 24	5 16	24 21	0 52	23 47	1 4	2 26	0 26	3 46	1 20	14 24	2 20	15 11	0 24	12 8
W26	23 26	3s52	5 7	24 29	1 0	23 40	1 6	2 13	0 25	3 48	1 20	14 24	2 20	15 12	0 24	12 7
T 27	23 24	8 47	4 42	24 35	1 8	23 33	1 7	2 0	0 24	3 49	1 19	14 23	2 20	15 13	0 24	12 7
F 28	23 22	13 11	4 3	24 39	1 16	23 25	1 9	1 46	0 23	3 51	1 19	14 23	2 20	15 14	0 24	12 6
S 29	23 19	16 53	3 13	24 39	1 23	23 16	1 10	1 33	0 21	3 52	1 19	14 23	2 19	15 14	0 24	12 6
S 30	23n16	19s45	2s14	24n37	1n29	23n 7	1n12	1n19	0n20	3s54	1n19	14s22	2n19	15n15	0s24	12n 5

Julian Day Number = 2306329.5, Delta T = 85.66 sec
 Ecliptic obliquity = 23°29'25", Nutation = 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°11'29", Lahiri = 18°18'30"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1602

geocentric

JULY 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 35 4	8°40'32	1°28	11°51	21°42	27°59	12°57	15°R43	12°33	0°17	26°6	14°29	13°12	18°55	3°13	M 1
T 2	18 39 0	9°37'42	13°30	13°59	22°55	28°31	13° 1	15°M42	12°36	0°19	26° 6	14°R30	13° 9	19° 1	3°19	T 2
W 3	18 42 57	10°34'52	25°25	16° 5	24° 9	29° 3	13° 5	15°40	12°38	0°21	26° 7	14°29	13° 6	19° 8	3°26	W 3
T 4	18 46 54	11°32'03	7°16	18°11	25°22	29°35	13° 9	15°38	12°40	0°22	26° 7	14°27	13° 3	19°15	3°32	T 4
F 5	18 50 50	12°29'13	19° 6	20°14	26°36	0° 7	13°14	15°37	12°42	0°24	26° 8	14°24	12°59	19°21	3°39	F 5
S 6	18 54 47	13°26'24	0°55	22°17	27°50	0°39	13°18	15°36	12°44	0°25	26° 8	14°20	12°56	19°28	3°45	S 6
S 7	18 58 43	14°23'34	12°48	24°17	29° 3	1°12	13°23	15°34	12°46	0°27	26° 9	14°15	12°53	19°35	3°52	S 7
M 8	19 2 40	15°20'46	24°45	26°16	0°17	1°44	13°28	15°33	12°48	0°29	26° 9	14°10	12°50	19°41	3°59	M 8
T 9	19 6 36	16°17'57	6°49	28°13	1°30	2°17	13°33	15°32	12°50	0°30	26°10	14° 5	12°47	19°48	4° 5	T 9
W10	19 10 33	17°15'10	19° 3	0°19	2°44	2°50	13°38	15°31	12°52	0°32	26°10	14° 1	12°43	19°55	4°12	W10
T 11	19 14 29	18°12'22	1°30	2° 2	3°57	3°24	13°43	15°30	12°54	0°34	26°10	13°58	12°40	20° 1	4°19	T 11
F 12	19 18 26	19° 9'36	14°13	3°54	5°11	3°57	13°49	15°29	12°56	0°36	26°11	13°D57	12°37	20° 8	4°26	F 12
S 13	19 22 22	20° 6'50	27°17	5°44	6°24	4°31	13°54	15°29	12°58	0°37	26°11	13°57	12°34	20°15	4°33	S 13
S 14	19 26 19	21° 4'05	10°44	7°32	7°38	5° 4	14° 0	15°28	13° 0	0°39	26°11	13°58	12°31	20°21	4°40	S 14
M15	19 30 16	22° 1'21	24°36	9°18	8°52	5°38	14° 6	15°27	13° 1	0°41	26°11	13°59	12°28	20°28	4°47	M15
T 16	19 34 12	22°58'38	8°15	11° 3	10° 5	6°12	14°12	15°27	13° 3	0°43	26°12	14°R 0	12°24	20°35	4°54	T 16
W17	19 38 9	23°55'56	23°35	12°46	11°19	6°46	14°18	15°27	13° 5	0°45	26°12	14° 0	12°21	20°41	5° 1	W17
T 18	19 42 5	24°53'14	8°36	14°26	12°32	7°21	14°24	15°26	13° 6	0°47	26°12	13°58	12°18	20°48	5° 9	T 18
F 19	19 46 2	25°50'33	23°49	16° 6	13°46	7°55	14°31	15°26	13° 8	0°48	26°12	13°54	12°15	20°55	5°16	F 19
S 20	19 49 58	26°47'53	9°19	17°43	14°59	8°30	14°37	15°D26	13° 9	0°50	26°12	13°49	12°12	21° 1	5°24	S 20
S 21	19 53 55	27°45'13	24° 8	19°18	16°13	9° 4	14°44	15°26	13°11	0°52	26°13	13°42	12° 9	21° 8	5°31	S 21
M22	19 57 52	28°42'34	8°15	20°52	17°26	9°39	14°51	15°26	13°12	0°54	26°13	13°36	12° 5	21°15	5°38	M22
T 23	20 1 48	29°39'55	23°18	22°24	18°40	10°14	14°58	15°27	13°13	0°56	26°13	13°30	12° 2	21°21	5°46	T 23
W24	20 5 45	0°13'17	7°12	23°54	19°53	10°50	15° 5	15°27	13°15	0°58	26°13	13°26	11°59	21°28	5°54	W24
T 25	20 9 41	1°34'40	20°37	25°22	21° 7	11°25	15°12	15°27	13°16	1° 0	26°13	13°24	11°56	21°35	6° 1	T 25
F 26	20 13 38	2°32'03	3°16	26°48	22°20	12° 0	15°19	15°28	13°17	1° 2	26°13	13°D23	11°53	21°41	6° 9	F 26
S 27	20 17 34	3°29'27	16°12	28°13	23°34	12°36	15°27	15°29	13°18	1° 4	26°R13	13°24	11°49	21°48	6°17	S 27
S 28	20 21 31	4°26'51	28°29	29°35	24°47	13°12	15°35	15°29	13°19	1° 6	26°13	13°25	11°46	21°55	6°24	S 28
M29	20 25 27	5°24'16	10°13	0°16	26° 1	13°48	15°42	15°30	13°21	1° 8	26°13	13°R26	11°43	22° 2	6°32	M29
T 30	20 29 24	6°21'42	2°28	2°14	27°14	14°24	15°50	15°31	13°22	1°10	26°13	13°25	11°40	22° 8	6°40	T 30
W31	20 33 21	7°19'09	4°19	3°13	28°12	15° 0	15°58	15°M32	13°23	1°12	26°13	13°23	11°37	22°15	6°48	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
M 1	23n12	21s40	1s11	24n31	1n34	22n57	1n14	1n 6	0n19	3s55	1n18	14s22	2n19	15n16	0s24	M 1
T 2	23 8	22 34	0 5	24 23	1 39	22 46	1 15	0 52	0 18	3 57	1 18	14 22	2 19	15 16	0 24	T 2
W 3	23 4	22 25	1n 0	24 13	1 43	22 35	1 16	0 38	0 17	3 59	1 18	14 21	2 18	15 17	0 24	W 3
T 4	22 59	21 16	2 2	24 0	1 46	22 23	1 18	0 24	0 16	4 1	1 18	14 21	2 18	15 18	0 24	T 4
F 5	22 54	19 11	2 59	23 44	1 48	22 10	1 19	0 10	0 14	4 3	1 17	14 21	2 18	15 18	0 24	F 5
S 6	22 49	16 18	3 47	23 27	1 50	21 57	1 20	0s 3	0 13	4 5	1 17	14 21	2 18	15 19	0 24	S 6
S 7	22 43	12 44	4 27	23 7	1 51	21 43	1 21	0 17	0 12	4 7	1 17	14 21	2 17	15 20	0 24	S 7
M 8	22 36	8 40	4 54	22 45	1 51	21 29	1 22	0 32	0 11	4 9	1 17	14 21	2 17	15 20	0 24	M 8
T 9	22 30	4 14	5 10	22 22	1 50	21 13	1 23	0 46	0 10	4 11	1 16	14 21	2 17	15 21	0 24	T 9
W10	22 22	0n25	5 11	21 56	1 49	20 58	1 24	1 0	0 9	4 13	1 16	14 20	2 17	15 21	0 24	W10
T 11	22 15	5 9	4 58	21 30	1 48	20 41	1 25	1 14	0 8	4 16	1 16	14 20	2 16	15 22	0 24	T 11
F 12	22 7	9 46	4 30	21 1	1 45	20 24	1 26	1 28	0 7	4 18	1 16	14 20	2 16	15 22	0 24	F 12
S 13	21 59	14 3	3 47	20 32	1 42	20 7	1 27	1 43	0 6	4 20	1 15	14 20	2 16	15 23	0 24	S 13
S 14	21 50	17 47	2 51	20 1	1 39	19 49	1 28	1 57	0 5	4 23	1 15	14 21	2 16	15 24	0 24	S 14
M15	21 41	20 38	1 44	19 29	1 35	19 30	1 28	2 11	0 4	4 25	1 15	14 21	2 15	15 24	0 24	M15
T 16	21 32	22 17	0 28	18 57	1 30	19 11	1 29	2 26	0 2	4 28	1 15	14 21	2 15	15 25	0 24	T 16
W17	21 22	22 28	0s52	18 23	1 25	18 51	1 30	2 40	0 1	4 30	1 14	14 21	2 15	15 25	0 24	W17
T 18	21 12	21 3	2 10	17 49	1 20	18 31	1 30	2 55	0 0	4 33	1 14	14 21	2 15	15 26	0 24	T 18
F 19	21 1	18 7	3 19	17 14	1 14	18 10	1 30	3 9	0s 1	4 36	1 14	14 21	2 14	15 26	0 24	F 19
S 20	20 50	13 56	4 14	16 38	1 8	17 49	1 31	3 24	0 2	4 39	1 14	14 22	2 14	15 26	0 24	S 20
S 21	20 39	8 55	4 51	16 2	1 1	17 28	1 31	3 39	0 3	4 41	1 13	14 22	2 14	15 27	0 24	S 21
M22	20 28	3 29	5 8	15 25	0 54	17 5	1 31	3 53	0 4	4 44	1 13	14 22	2 14	15 27	0 24	M22
T 23	20 16	1s59	5 4	14 49	0 47	16 43	1 31	4 8	0 5	4 47	1 13	14 22	2 13	15 28	0 24	T 23
W24	20 4	7 11	4 43	14 12	0 39	16 20	1 31	4 23	0 5	4 50	1 13	14 23	2 13	15 28	0 24	W24
T 25	19 51	11 52	4 6	13 35	0 31	15 56	1 31	4 37	0 6	4 53	1 12	14 23	2 13	15 28	0 24	T 25
F 26	19 38	15 51	3 18	12 57	0 22	15 32	1 31	4 52	0 7	4 56	1 12	14 24	2 13	15 29	0 24	F 26
S 27	19 25	18 59	2 22	12 20	0 14	15 8	1 31	5 7	0 8	4 59	1 12	14 24	2 12	15 29	0 24	S 27
S 28	19 11	21 10	1 20	11 43	0 5	14 43	1 31	5 22	0 9	5 2	1 12	14 24	2 12	15 29	0 24	S 28
M29	18 58	22 20	0 15	11 6	0s 5	14 18	1 31	5 37	0 10	5 6	1 12	14 25	2 12	15 30	0 24	M29
T 30	18 43	22 28	0n49	10 29	0 14	13 52	1 30	5 51	0 11	5 9	1 11	14 25	2 12	15 30	0 24	T 30
W31	18n29	21s35	1n50	9n52	0s24	13n26	1n30	6s 6	0s12	5s12	1n11	14s26	2n11	15n30	0s24	W31

Julian Day Number = 2306359.5, Delta T = 85.56 sec
 Ecliptic obliquity = 23°29'24", Nutation = 0°00'17", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°11'33", Lahiri = 18°18'34"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1602
geocentric

AUGUST 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 37 17	8♌16'36	16♊7	4♉45	29♏41	15♊36	16♌6	15♌33	13♊24	1♉14	26♌13	13♌18	11♊34	22♊22	6♉56	T 1
F 2	20 41 14	9°14'05	27°57	5°58	0♉54	16°12	16°15	15°34	13°24	1°16	26♌12	13♊11	11°30	22°28	7°4	F 2
S 3	20 45 10	10°11'34	9♊50	7°8	2°7	16°49	16°23	15°36	13°25	1°18	26°12	13°2	11°27	22°35	7°12	S 3
S 4	20 49 7	11°9'05	21°49	8°16	3°21	17°25	16°31	15°37	13°26	1°21	26°12	12°52	11°24	22°42	7°20	S 4
M 5	20 53 3	12°6'36	3♉54	9°21	4°34	18°2	16°40	15°39	13°27	1°23	26°12	12°41	11°21	22°48	7°28	M 5
T 6	20 57 0	13°4'09	16°7	10°24	5°48	18°39	16°49	15°40	13°27	1°25	26°12	12°31	11°18	22°55	7°36	T 6
W 7	21 0 56	14°1'44	28°29	11°24	7°1	19°16	16°57	15°42	13°28	1°27	26°12	12°21	11°15	23°2	7°44	W 7
T 8	21 4 53	14°59'19	11♉3	12°22	8°14	19°53	17°6	15°44	13°29	1°29	26°11	12°14	11°11	23°8	7°52	T 8
F 9	21 8 50	15°56'56	23°50	13°16	9°27	20°30	17°15	15°45	13°29	1°31	26°11	12°10	11°8	23°15	8°1	F 9
S 10	21 12 46	16°54'35	6♊53	14°8	10°41	21°8	17°24	15°47	13°30	1°33	26°11	12°8	11°5	23°22	8°9	S 10
S 11	21 16 43	17°52'16	20°14	14°57	11°54	21°45	17°34	15°49	13°30	1°36	26°10	12°D 7	11°2	23°28	8°17	S 11
M12	21 20 39	18°49'58	3♊57	15°42	13°7	22°23	17°43	15°52	13°31	1°38	26°10	12°8	10°59	23°35	8°26	M12
T 13	21 24 36	19°47'41	18°3	16°24	14°21	23°0	17°52	15°54	13°31	1°40	26°10	12°R 8	10°55	23°42	8°34	T 13
W14	21 28 32	20°45'27	2♊31	17°1	15°34	23°38	18°2	15°56	13°31	1°42	26°9	12°6	10°52	23°48	8°42	W14
T 15	21 32 29	21°43'14	17°18	17°36	16°47	24°16	18°11	15°59	13°31	1°44	26°9	12°3	10°49	23°55	8°51	T 15
F 16	21 36 25	22°41'03	2♌20	18°5	18°0	24°54	18°21	16°1	13°32	1°47	26°9	11°56	10°46	24°2	8°59	F 16
S 17	21 40 22	23°38'53	17°27	18°31	19°13	25°32	18°31	16°4	13°32	1°49	26°8	11°47	10°43	24°8	9°7	S 17
S 18	21 44 19	24°36'44	2♉30	18°51	20°27	26°11	18°41	16°6	13°32	1°51	26°8	11°37	10°40	24°15	9°16	S 18
M19	21 48 15	25°34'37	17°19	19°7	21°40	26°49	18°51	16°9	13°R32	1°53	26°7	11°27	10°36	24°22	9°24	M19
T 20	21 52 12	26°32'32	1♌45	19°18	22°53	27°28	19°1	16°12	13°32	1°55	26°7	11°17	10°33	24°28	9°33	T 20
W21	21 56 8	27°30'28	15°44	19°R23	24°6	28°6	19°11	16°15	13°32	1°58	26°6	11°9	10°30	24°35	9°41	W21
T 22	22 0 5	28°28'25	29°14	19°23	25°19	28°45	19°21	16°18	13°32	2°0	26°6	11°4	10°27	24°42	9°50	T 22
F 23	22 4 1	29°26'23	12♌16	19°16	26°32	29°24	19°32	16°21	13°32	2°2	26°5	11°1	10°24	24°49	9°58	F 23
S 24	22 7 58	0♉24'23	24°53	19°4	27°45	0♌3	19°42	16°24	13°31	2°4	26°5	11°0	10°20	24°55	10°7	S 24
S 25	22 11 54	1°22'25	7♊11	18°46	28°58	0°42	19°53	16°28	13°31	2°7	26°4	11°0	10°17	25°2	10°16	S 25
M26	22 15 51	2°20'27	19°14	18°21	0♌12	1°21	20°3	16°31	13°31	2°9	26°4	11°0	10°14	25°9	10°24	M26
T 27	22 19 48	3°18'31	1♊7	17°50	1°25	2°0	20°14	16°35	13°30	2°11	26°3	10°58	10°11	25°15	10°33	T 27
W28	22 23 44	4°16'37	12°56	17°14	2°38	2°40	20°25	16°38	13°30	2°13	26°2	10°55	10°8	25°22	10°41	W28
T 29	22 27 41	5°14'44	24°45	16°32	3°51	3°19	20°36	16°42	13°30	2°15	26°2	10°49	10°5	25°29	10°50	T 29
F 30	22 31 37	6°12'52	6♊38	15°44	5°3	3°59	20°47	16°46	13°29	2°18	26°1	10°40	10°1	25°35	10°59	F 30
S 31	22 35 34	7♉11'03	18♊37	14♉52	6♌16	4♌38	20♌58	16♌49	13♊29	2♉20	26♌0	10♊29	9♊58	25♊42	11♉7	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	18n14	19s46	2n46	9n16	0s34	13n 0	1n29	6s21	0s13	5s15	1n11	14s27	2n11	15n31	0s24	11n44
F 2	17 59	17 6	3 35	8 40	0 44	12 34	1 29	6 36	0 14	5 19	1 11	14 27	2 11	15 31	0 24	11 44
S 3	17 44	13 43	4 15	8 5	0 54	12 7	1 28	6 51	0 15	5 22	1 11	14 28	2 10	15 31	0 24	11 43
S 4	17 28	9 47	4 44	7 30	1 4	11 40	1 28	7 6	0 16	5 26	1 10	14 28	2 10	15 31	0 24	11 42
M 5	17 12	5 26	5 0	6 55	1 15	11 12	1 27	7 21	0 16	5 29	1 10	14 29	2 10	15 32	0 24	11 41
T 6	16 56	0 50	5 3	6 22	1 26	10 44	1 26	7 35	0 17	5 33	1 10	14 30	2 10	15 32	0 24	11 41
W 7	16 39	3n52	4 52	5 49	1 36	10 16	1 25	7 50	0 18	5 36	1 10	14 31	2 9	15 32	0 24	11 40
T 8	16 22	8 28	4 27	5 17	1 47	9 48	1 24	8 5	0 19	5 40	1 9	14 31	2 9	15 32	0 24	11 39
F 9	16 5	12 48	3 48	4 46	1 58	9 19	1 23	8 20	0 20	5 43	1 9	14 32	2 9	15 32	0 24	11 38
S 10	15 48	16 37	2 56	4 16	2 9	8 50	1 22	8 35	0 21	5 47	1 9	14 33	2 9	15 32	0 24	11 37
S 11	15 30	19 40	1 54	3 48	2 20	8 21	1 21	8 50	0 22	5 51	1 9	14 34	2 8	15 32	0 24	11 37
M12	15 13	21 42	0 43	3 20	2 31	7 52	1 19	9 4	0 22	5 54	1 9	14 35	2 8	15 33	0 24	11 36
T 13	14 55	22 26	0s31	2 54	2 41	7 22	1 18	9 19	0 23	5 58	1 9	14 35	2 8	15 33	0 24	11 35
W14	14 36	21 42	1 46	2 30	2 52	6 53	1 17	9 34	0 24	6 2	1 8	14 36	2 8	15 33	0 24	11 34
T 15	14 18	19 28	2 55	2 7	3 2	6 23	1 15	9 49	0 25	6 6	1 8	14 37	2 7	15 33	0 24	11 34
F 16	13 59	15 53	3 35	1 46	3 13	5 53	1 14	10 4	0 26	6 10	1 8	14 38	2 7	15 33	0 24	11 33
S 17	13 40	11 16	4 33	1 27	3 23	5 23	1 12	10 18	0 26	6 14	1 8	14 39	2 7	15 33	0 24	11 32
S 18	13 21	5 58	4 58	1 10	3 32	4 52	1 10	10 33	0 27	6 18	1 8	14 40	2 7	15 33	0 24	11 31
M19	13 1	0 25	5 0	0 55	3 41	4 22	1 8	10 48	0 28	6 22	1 7	14 41	2 6	15 33	0 24	11 30
T 20	12 42	5s 1	4 43	0 43	3 50	3 51	1 7	11 2	0 29	6 26	1 7	14 42	2 6	15 33	0 24	11 30
W21	12 22	10 2	4 9	0 34	3 58	3 20	1 5	11 17	0 29	6 30	1 7	14 43	2 6	15 33	0 24	11 29
T 22	12 2	14 22	3 22	0 28	4 5	2 50	1 3	11 31	0 30	6 34	1 7	14 44	2 6	15 33	0 24	11 28
F 23	11 42	17 52	2 26	0 24	4 11	2 19	1 1	11 46	0 31	6 38	1 7	14 46	2 5	15 33	0 24	11 27
S 24	11 21	20 24	1 24	0 24	4 17	1 48	0 59	12 0	0 32	6 42	1 7	14 47	2 5	15 33	0 24	11 27
S 25	11 1	21 53	0 20	0 27	4 21	1 17	0 57	12 15	0 32	6 46	1 6	14 48	2 5	15 33	0 24	11 26
M26	10 40	22 20	0n44	0 34	4 24	0 45	0 55	12 29	0 33	6 50	1 6	14 49	2 5	15 32	0 24	11 25
T 27	10 19	21 45	1 44	0 44	4 26	0 14	0 52	12 44	0 34	6 54	1 6	14 50	2 5	15 32	0 24	11 24
W28	9 58	20 12	2 40	0 58	4 26	0s17	0 50	12 58	0 35	6 58	1 6	14 52	2 4	15 32	0 24	11 23
T 29	9 36	17 47	3 29	1 16	4 24	0 48	0 48	13 12	0 35	7 3	1 6	14 53	2 4	15 32	0 24	11 23
F 30	9 15	14 38	4 9	1 37	4 21	1 19	0 45	13 26	0 36	7 7	1 6	14 54	2 4	15 32	0 24	11 22
S 31	8n53	10s51	4n39	2n 2	4s16	1s50	0n43	13s40	0s37	7s11	1n 6	14s55	2n 4	15n32	0s24	11n21

Julian Day Number = 2306390.5, Delta T = 85.45 sec
Ecliptic obliquity = 23°29'24", Nutation = 0°00'18", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°11'38", Lahiri = 18°18'38"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1602
geocentric

OCTOBER 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 37 47	7♂30'37	4♂29	24♂53	13♂45	25♂55	27♂9	19♂22	12♂R49	3♂25	25♂R32	7♂R 8	8♂20	29♂9	15♂33	T 1
W 2	0 41 43	8°29'50	17°25	26°37	14°57	26°38	27°22	19°28	12♂47	3°27	25♂Y31	6♂58	8°17	29°16	15°41	W 2
T 3	0 45 40	9°29'04	0♂34	28°21	16° 9	27°21	27°35	19°34	12°45	3°29	25°30	6°51	8°13	29°23	15°49	T 3
F 4	0 49 36	10°28'21	13°54	0♂6	17°21	28° 4	27°47	19°40	12°43	3°31	25°29	6°46	8°10	29°29	15°58	F 4
S 5	0 53 33	11°27'41	27°25	1°51	18°33	28°46	28° 0	19°46	12°41	3°33	25°28	6°44	8° 7	29°36	16° 6	S 5
S 6	0 57 30	12°27'02	11♂5	3°36	19°45	29°29	28°13	19°52	12°39	3°35	25°27	6°D43	8° 4	29°43	16°14	S 6
M 7	1 1 26	13°26'26	24°54	5°21	20°57	0♂12	28°26	19°58	12°37	3°36	25°26	6°44	8° 1	29°49	16°22	M 7
T 8	1 5 23	14°25'52	8♂52	7° 7	22° 9	0°55	28°39	20° 4	12°35	3°38	25°25	6°R45	7°57	29°56	16°30	T 8
W 9	1 9 19	15°25'21	22°59	8°51	23°21	1°39	28°52	20°11	12°33	3°40	25°23	6°45	7°54	0♂3	16°38	W 9
T 10	1 13 16	16°24'52	7♂13	10°36	24°32	2°22	29° 5	20°17	12°31	3°42	25°22	6°43	7°51	0°10	16°46	T 10
F 11	1 17 12	17°24'25	21°32	12°20	25°44	3° 5	29°18	20°23	12°29	3°43	25°21	6°39	7°48	0°16	16°54	F 11
S 12	1 21 9	18°24'01	5♂53	14° 4	26°56	3°49	29°31	20°30	12°26	3°45	25°20	6°33	7°45	0°23	17° 2	S 12
S 13	1 25 5	19°23'38	20°11	15°47	28° 7	4°32	29°44	20°36	12°24	3°47	25°19	6°26	7°42	0°30	17°10	S 13
M14	1 29 2	20°23'18	4♂21	17°29	29°19	5°16	29°57	20°42	12°22	3°48	25°18	6°18	7°38	0°36	17°18	M14
T 15	1 32 59	21°23'00	18°18	19°11	0♂30	5°59	0♂10	20°49	12°20	3°50	25°17	6°11	7°35	0°43	17°26	T 15
W16	1 36 55	22°22'44	1♂57	20°53	1°42	6°43	0°23	20°55	12°17	3°52	25°16	6° 5	7°32	0°50	17°34	W16
T 17	1 40 52	23°22'31	15°15	22°34	2°53	7°27	0°36	21° 2	12°15	3°53	25°14	6° 1	7°29	0°56	17°42	T 17
F 18	1 44 48	24°22'19	28°13	24°14	4° 5	8°11	0°49	21° 8	12°13	3°55	25°13	5°59	7°26	1° 3	17°49	F 18
S 19	1 48 45	25°22'09	10♂50	25°54	5°16	8°55	1° 2	21°15	12°10	3°56	25°12	5°D58	7°23	1°10	17°57	S 19
S 20	1 52 41	26°22'00	23°10	27°33	6°27	9°39	1°15	21°22	12° 8	3°58	25°11	5°59	7°19	1°17	18° 4	S 20
M21	1 56 38	27°21'54	5♂15	29°11	7°39	10°23	1°28	21°28	12° 6	4° 0	25°10	6° 1	7°16	1°23	18°12	M21
T 22	2 0 34	28°21'49	17°11	0♂49	8°50	11° 7	1°42	21°35	12° 3	4° 1	25° 9	6° 3	7°13	1°30	18°19	T 22
W23	2 4 31	29°21'46	29° 3	2°27	10° 1	11°51	1°55	21°42	12° 1	4° 2	25° 8	6°R 3	7°10	1°37	18°27	W23
T 24	2 8 28	0♂14'44	10♂54	4° 4	11°12	12°35	2° 8	21°49	11°58	4° 4	25° 6	6° 3	7° 7	1°43	18°34	T 24
F 25	2 12 24	1°21'44	22°51	5°41	12°23	13°20	2°21	21°55	11°56	4° 5	25° 5	6° 0	7° 3	1°50	18°42	F 25
S 26	2 16 21	2°21'46	4♂58	7°17	13°34	14° 4	2°34	22° 2	11°54	4° 7	25° 4	5°57	7° 0	1°57	18°49	S 26
S 27	2 20 17	3°21'49	17°19	8°52	14°45	14°49	2°47	22° 9	11°51	4° 8	25° 3	5°52	6°57	2° 3	18°56	S 27
M28	2 24 14	4°21'54	29°56	10°27	15°56	15°33	3° 0	22°16	11°49	4° 9	25° 2	5°46	6°54	2°10	19° 3	M28
T 29	2 28 10	5°22'01	12♂51	12° 2	17° 6	16°18	3°14	22°23	11°46	4°11	25° 1	5°41	6°51	2°17	19°10	T 29
W30	2 32 7	6°22'09	26° 4	13°36	18°17	17° 3	3°27	22°30	11°44	4°12	25° 0	5°36	6°48	2°23	19°17	W30
T 31	2 36 3	7♂22'19	9♂35	15♂10	19♂28	17♂47	3♂40	22♂37	11♂41	4♂13	24♂59	5♂33	6♂44	2♂30	19♂24	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	2s59	5n55	4n30	3n48	1n55	16s48	0s51	20s10	0s55	9s31	1n 2	15s43	1n58	15n20	0s25	10n58
W 2	3 23	10 25	3 52	3 6	1 55	17 13	0 54	20 21	0 55	9 36	1 2	15 45	1 57	15 19	0 25	10 57
T 3	3 46	14 31	3 1	2 23	1 53	17 37	0 57	20 31	0 56	9 40	1 2	15 47	1 57	15 18	0 25	10 57
F 4	4 9	17 56	1 59	1 40	1 51	18 1	1 1	20 41	0 56	9 45	1 2	15 48	1 57	15 18	0 25	10 56
S 5	4 33	20 26	0 50	0 56	1 49	18 24	1 4	20 51	0 57	9 50	1 2	15 50	1 57	15 17	0 25	10 55
S 6	4 56	21 46	0s23	0 11	1 46	18 47	1 7	21 1	0 57	9 54	1 1	15 52	1 57	15 17	0 25	10 55
M 7	5 19	21 47	1 36	0s34	1 42	19 10	1 10	21 11	0 58	9 59	1 1	15 54	1 57	15 16	0 25	10 54
T 8	5 42	20 28	2 44	1 19	1 38	19 32	1 13	21 20	0 58	10 4	1 1	15 56	1 57	15 15	0 25	10 53
W 9	6 5	17 52	3 43	2 5	1 34	19 53	1 17	21 29	0 59	10 8	1 1	15 57	1 56	15 15	0 25	10 53
T 10	6 28	14 11	4 28	2 35	1 29	20 14	1 20	21 39	0 59	10 13	1 1	15 59	1 56	15 14	0 25	10 52
F 11	6 51	9 40	4 57	3 50	1 24	20 35	1 23	21 48	0 59	10 18	1 1	16 1	1 56	15 13	0 25	10 52
S 12	7 14	4 36	5 7	4 21	1 19	20 54	1 26	21 56	1 0	10 22	1 1	16 3	1 56	15 13	0 25	10 51
S 13	7 36	0s41	4 59	5 6	1 13	21 14	1 29	22 5	1 0	10 27	1 1	16 5	1 56	15 12	0 25	10 50
M14	7 59	5 53	4 32	5 50	1 8	21 33	1 32	22 13	1 1	10 32	1 1	16 6	1 56	15 11	0 25	10 50
T 15	8 21	10 43	3 49	6 35	1 2	21 51	1 35	22 21	1 1	10 36	1 1	16 8	1 56	15 11	0 25	10 49
W16	8 44	14 53	2 54	7 18	0 56	22 9	1 38	22 29	1 1	10 41	1 1	16 10	1 55	15 10	0 25	10 49
T 17	9 6	18 12	1 50	8 2	0 49	22 26	1 41	22 37	1 2	10 45	1 1	16 12	1 55	15 9	0 25	10 48
F 18	9 28	20 29	0 42	8 45	0 43	22 43	1 44	22 44	1 2	10 50	1 1	16 14	1 55	15 8	0 25	10 47
S 19	9 50	21 41	0n26	9 27	0 37	22 59	1 47	22 52	1 3	10 55	1 1	16 16	1 55	15 8	0 25	10 47
S 20	10 12	21 47	1 32	10 9	0 30	23 14	1 50	22 59	1 3	10 59	1 1	16 17	1 55	15 7	0 25	10 46
M21	10 33	20 51	2 33	10 51	0 23	23 29	1 52	23 6	1 3	11 4	1 0	16 19	1 55	15 6	0 25	10 46
T 22	10 55	18 59	3 26	11 31	0 17	23 43	1 55	23 12	1 4	11 9	1 0	16 21	1 55	15 6	0 25	10 45
W23	11 16	16 19	4 9	12 12	0 10	23 56	1 58	23 19	1 4	11 13	1 0	16 23	1 55	15 5	0 25	10 45
T 24	11 37	13 0	4 43	12 51	0 3	24 9	2 0	23 25	1 4	11 18	1 0	16 25	1 55	15 4	0 25	10 44
F 25	11 58	9 8	5 4	13 30	0s 3	24 21	2 3	23 31	1 5	11 22	1 0	16 27	1 54	15 3	0 25	10 44
S 26	12 19	4 52	5 12	14 8	0 10	24 33	2 5	23 37	1 5	11 27	1 0	16 28	1 54	15 3	0 25	10 43
S 27	12 40	0 20	5 6	14 45	0 17	24 44	2 8	23 42	1 5	11 31	1 0	16 30	1 54	15 2	0 25	10 43
M28	13 0	4n20	4 45	15 22	0 24	24 54	2 10	23 47	1 6	11 36	1 0	16 32	1 54	15 1	0 25	10 43
T 29	13 20	8 54	4 9	15 57	0 30	25 4	2 12	23 53	1 6	11 40	1 0	16 34	1 54	15 0	0 25	10 42
W30	13 40	13 11	3 19	16 32	0 37	25 12	2 15	23 57	1 6	11 45	1 0	16 36	1 54	15 0	0 25	10 42
T 31	14s 0	16n53	2n17	17s 7	0s43	25s21	2s17	24s 2	1s 6	11s49	1n 0	16s38	1n54	14n59	0s25	10n41

Julian Day Number = 2306451.5, Delta T = 85.24 sec
Ecliptic obliquity = 23°29'25", Nutation = 0°00'15", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°11'46", Lahiri = 18°18'46"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1602

geocentric

NOVEMBER 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 40 0	8♉22°31	23♊20	16♉44	20♊38	18♊32	3♉53	22♉44	11°R39	4♉14	24°R58	5°R31	6♊41	2♊37	19♉31	F 1
S 2	2 43 57	9°22'45	7♉18	18°17	21°48	19°17	4° 6	22°51	11♊36	4°15	24°Y56	5°D31	6°38	2°44	19°38	S 2
S 3	2 47 53	10°23'01	21°24	19°49	22°59	20° 2	4°19	22°58	11°34	4°17	24°55	5♊31	6°35	2°50	19°45	S 3
M 4	2 51 50	11°23'19	5♊35	21°22	24° 9	20°47	4°33	23° 5	11°31	4°18	24°54	5°33	6°32	2°57	19°51	M 4
T 5	2 55 46	12°23'39	19°48	22°54	25°19	21°32	4°46	23°12	11°29	4°19	24°53	5°34	6°29	3° 4	19°58	T 5
W 6	2 59 43	13°24'01	4♉ 1	24°26	26°29	22°17	4°59	23°19	11°26	4°20	24°52	5°35	6°25	3°10	20° 5	W 6
T 7	3 3 39	14°24'25	18°12	25°57	27°39	23° 3	5°12	23°26	11°24	4°21	24°51	5°R35	6°22	3°17	20°11	T 7
F 8	3 7 36	15°24'51	2♉18	27°28	28°49	23°48	5°25	23°33	11°21	4°22	24°50	5°35	6°19	3°24	20°18	F 8
S 9	3 11 32	16°25'19	16°18	28°59	29°59	24°33	5°38	23°40	11°19	4°23	24°49	5°33	6°16	3°31	20°24	S 9
S 10	3 15 29	17°25'48	0♉ 9	0♊29	1♊ 8	25°18	5°51	23°47	11°16	4°24	24°48	5°30	6°13	3°37	20°30	S 10
M11	3 19 26	18°26'20	13°50	1°59	2°18	26° 4	6° 4	23°54	11°14	4°25	24°47	5°28	6° 9	3°44	20°36	M11
T 12	3 23 22	19°26'53	27°19	3°29	3°28	26°49	6°17	24° 1	11°11	4°25	24°46	5°26	6° 6	3°51	20°42	T 12
W13	3 27 19	20°27'28	10♉34	4°59	4°37	27°35	6°30	24° 8	11° 9	4°26	24°45	5°24	6° 3	3°57	20°48	W13
T 14	3 31 15	21°28'04	23°33	6°28	5°46	28°21	6°43	24°15	11° 6	4°27	24°44	5°23	6° 0	4° 4	20°54	T 14
F 15	3 35 12	22°28'42	6♊17	7°56	6°55	29° 6	6°56	24°22	11° 4	4°28	24°43	5°D22	5°57	4°11	21° 0	F 15
S 16	3 39 8	23°29'22	18°46	9°25	8° 4	29°52	7° 9	24°30	11° 2	4°29	24°42	5°23	5°54	4°17	21° 6	S 16
S 17	3 43 5	24°30'02	1♊ 2	10°52	9°13	0♊38	7°22	24°37	10°59	4°29	24°41	5°24	5°50	4°24	21°12	S 17
M18	3 47 1	25°30'45	13° 6	12°19	10°22	1°24	7°35	24°44	10°57	4°30	24°40	5°25	5°47	4°31	21°17	M18
T 19	3 50 58	26°31'28	25° 1	13°46	11°31	2° 9	7°48	24°51	10°54	4°31	24°39	5°26	5°44	4°38	21°23	T 19
W20	3 54 55	27°32'12	6♊53	15°12	12°39	2°55	8° 0	24°58	10°52	4°31	24°38	5°26	5°41	4°44	21°28	W20
T 21	3 58 51	28°32'57	18°44	16°37	13°48	3°41	8°13	25° 5	10°50	4°32	24°37	5°27	5°38	4°51	21°34	T 21
F 22	4 2 48	29°33'44	0♉40	18° 1	14°56	4°27	8°26	25°12	10°47	4°32	24°36	5°R27	5°34	4°58	21°39	F 22
S 23	4 6 44	0♊34°31	12°45	19°25	16° 4	5°13	8°39	25°19	10°45	4°33	24°35	5°27	5°31	5° 4	21°44	S 23
S 24	4 10 41	1°35'19	25° 4	20°47	17°12	6° 0	8°51	25°26	10°43	4°33	24°34	5°27	5°28	5°11	21°49	S 24
M25	4 14 37	2°36'09	7♊42	22° 8	18°20	6°46	9° 4	25°33	10°40	4°34	24°33	5°26	5°25	5°18	21°54	M25
T 26	4 18 34	3°36'59	20°40	23°27	19°27	7°32	9°17	25°41	10°38	4°34	24°33	5°26	5°22	5°24	21°59	T 26
W27	4 22 30	4°37'50	4♉ 1	24°44	20°35	8°18	9°29	25°48	10°36	4°34	24°32	5°26	5°19	5°31	22° 4	W27
T 28	4 26 27	5°38'42	17°46	26° 0	21°42	9° 4	9°42	25°55	10°34	4°35	24°31	5°D26	5°15	5°38	22° 8	T 28
F 29	4 30 24	6°39'36	1♉51	27°13	22°49	9°51	9°54	26° 2	10°32	4°35	24°30	5°R26	5°12	5°45	22°13	F 29
S 30	4 34 20	7♊40°30	16♉15	28♊24	23♊56	10♊37	10♉ 7	26♉ 9	10♊29	4♉35	24°Y29	5♊26	5♊ 9	5♊51	22♉18	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	♂
F 1	14s20	19n43	1n 6	17s40	0s50	25s28	2s19	24s 6	1s 7	11s54	1n 0	16s39	1n54	14n58	0s25	10n41	0n45	6s23	17s14	21s16	21s28	15s28	0n11	4s20
S 2	14 39	21 25	0s10	18 12	0 56	25 35	2 21	24 10	1 7	11 58	1 0	16 41	1 54	14 57	0 25	10 40	0 45	6 23	17 14	21 16	21 28	15 26	0 8	4 20
S 3	14 58	21 46	1 26	18 44	1 2	25 41	2 23	24 14	1 7	12 3	1 0	16 43	1 54	14 57	0 25	10 40	0 45	6 24	17 14	21 16	21 27	15 24	0 5	4 20
M 4	15 17	20 44	2 38	19 14	1 8	25 46	2 25	24 17	1 7	12 7	1 0	16 45	1 54	14 56	0 25	10 40	0 45	6 24	17 14	21 16	21 27	15 22	0 2	4 20
T 5	15 35	18 24	3 40	19 44	1 14	25 51	2 26	24 21	1 8	12 12	1 0	16 47	1 54	14 55	0 25	10 39	0 46	6 24	17 14	21 17	21 26	15 20	0s 0	4 20
W 6	15 54	14 56	4 29	20 13	1 20	25 55	2 28	24 24	1 8	12 16	1 0	16 49	1 53	14 54	0 25	10 39	0 46	6 24	17 14	21 17	21 26	15 18	0 3	4 20
T 7	16 12	10 38	5 1	20 41	1 26	25 58	2 30	24 26	1 8	12 20	1 0	16 50	1 53	14 53	0 25	10 39	0 46	6 25	17 14	21 17	21 25	15 16	0 6	4 21
F 8	16 30	5 47	5 15	21 7	1 32	26 0	2 31	24 29	1 8	12 25	1 0	16 52	1 53	14 53	0 25	10 38	0 46	6 25	17 14	21 17	21 25	15 14	0 9	4 21
S 9	16 47	0 40	5 10	21 33	1 37	26 2	2 32	24 31	1 9	12 29	1 0	16 54	1 53	14 52	0 25	10 38	0 46	6 25	17 13	21 16	21 24	15 12	0 11	4 21
S 10	17 4	4s27	4 47	21 58	1 42	26 3	2 34	24 33	1 9	12 33	1 0	16 56	1 53	14 51	0 25	10 38	0 46	6 25	17 13	21 16	21 23	15 10	0 14	4 21
M11	17 21	9 16	4 8	22 21	1 47	26 3	2 35	24 35	1 9	12 38	1 0	16 58	1 53	14 50	0 25	10 37	0 46	6 26	17 13	21 16	21 23	15 8	0 16	4 21
T 12	17 38	13 34	3 15	22 44	1 52	26 3	2 36	24 36	1 9	12 42	1 0	16 59	1 53	14 50	0 25	10 37	0 46	6 26	17 13	21 15	21 22	15 6	0 19	4 21
W13	17 54	17 8	2 13	23 5	1 56	26 2	2 37	24 37	1 9	12 46	1 0	17 1	1 53	14 49	0 25	10 37	0 46	6 26	17 13	21 15	21 22	15 4	0 21	4 22
T 14	18 10	19 45	1 5	23 25	2 1	26 0	2 38	24 38	1 10	12 51	1 0	17 3	1 53	14 48	0 25	10 37	0 46	6 26	17 13	21 15	21 21	15 2	0 24	4 22
F 15	18 26	21 19	0n 5	23 44	2 5	25 57	2 39	24 39	1 10	12 55	1 0	17 5	1 53	14 47	0 25	10 36	0 46	6 26	17 13	21 15	21 21	15 0	0 26	4 22
S 16	18 41	21 48	1 14	24 2	2 9	25 54	2 39	24 39	1 10	12 59	1 0	17 6	1 53	14 47	0 25	10 36	0 46	6 27	17 12	21 15	21 20	14 58	0 29	4 22
S 17	18 56	21 12	2 17	24 18	2 12	25 50	2 40	24 39	1 10	13 3	1 0	17 8	1 53	14 46	0 25	10 36	0 46	6 27	17 12	21 15	21 20	14 56	0 31	4 22
M18	19 11	19 37	3 14	24 33	2 15	25 45	2 40	24 39	1 10	13 7	1 0	17 10	1 53	14 45	0 24	10 36	0 46	6 27	17 12	21 15	21 19	14 54	0 34	4 23
T 19	19 25	17 12	4 2	24 47	2 18	25 40	2 41	24 39	1 10	13 12	1 0	17 12	1 53	14 45	0 24	10 35	0 46	6 27	17 12	21 15	21 18	14 52	0 36	4 23
W20	19 39	14 5	4 39	24 59	2 20	25 33	2 41	24 38	1 10	13 16	1 0	17 13	1 53	14 44	0 24	10 35	0 46	6 27	17 12	21 15	21 18	14 50	0 38	4 23
T 21	19 53	10 25	5 4	25 11	2 22	25 27	2 41	24 37	1 11	13 20	1 0	17 15	1 53	14 43	0 24	10 35	0 46	6 27	17 11	21 15	21 17	14 48	0 41	4 23
F 22	20 6	6 20	5 16	25 20	2 24	25 19	2 41	24 36	1 11	13 24	1 0	17 17	1 53	14 42	0 24	10 35	0 46	6 27	17 11	21 15	21 17	14 46	0 43	4 23
S 23	20 19	1 56	5 15	25 29	2 25	25 11	2 41	24 34	1 11	13 28	1 0	17 19	1 53	14 42	0 24	10 35	0 46	6 27	17 11	21 15	21 16	14 44	0 45	4 24
S 24	20 31	2n37	4 59	25 35	2 26	25 2	2 41	24 32	1 11	13 32	1 0	17 20	1 53	14 41	0 24	10 35	0 46	6 28	17 11	21 15	21 16	14 42	0 47	4 24
M25	20 43	7 10	4 29	25 41	2 26	24 53	2 40	24 30	1 11	13 36	1 0	17 22	1 53	14 40	0 24	10 35	0 46	6 28	17 10	21 15	21 15	14 40	0 49	4 24
T 26	20 55	11 32	3 44	25 45	2 25	24 43	2 40	24 27	1 11	13 40	1 0	17 24	1 53	14 40	0 24	10 34	0 46	6 28	17 10	21 15	21 14	14 38	0 52	4 24
W27	21 7	15 29	2 46	25 47	2 24	24 32	2 39	24 25	1 11	13 44	1 0	17 25	1 53	14 39	0 24	10 34	0 46	6 28	17 10	21 15	21 14	14 36	0 54	4 24
T 28	21 17	18 42	1 37	25 48	2 23	24 20	2 38	24 22	1 11	13 48	1 0	17 27	1 53	14 38	0 24	10 34	0 46	6 28	17 10	21 15	21 13	14 34	0 56	4 25
F 29	21 28	20 54	0 20	25 48	2 20	24 8	2 37	24 19	1 11	13 52	1 0	17 29	1 53	14 38	0 24	10 34	0 46	6 28	17 9	21 15	21 13	14 32	0 58	4 25
S 30	21s38	21n47	1s 0	25s46	2s17	23s56	2s36	24s15	1s11	13s56	1n 0	17s30	1n53	14n37	0s24	10n34	0n46	6s28	17s 9	21s15	21s12	14s30	1s 0	4s25

ASTRODIENST EPHEMERIS for the year 1602

geocentric

DECEMBER 1602 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 17	8°41'26	0°50	29°32	25°2	11°24	10°19	26°16	10°R27	4°36	24°R29	5°R26	5° 6	5°58	22°22	S 1
M 2	4 42 13	9°42'22	15°30	0°36	26° 8	12°10	10°31	26°23	10°25	4°36	24°Y28	5°R25	5° 3	6° 5	22°26	M 2
T 3	4 46 10	10°43'20	0°10	1°35	27°15	12°57	10°44	26°30	10°23	4°36	24°27	5°25	5° 0	6°11	22°30	T 3
W 4	4 50 6	11°44'19	14°43	2°31	28°21	13°43	10°56	26°37	10°21	4°36	24°26	5°24	4°56	6°18	22°35	W 4
T 5	4 54 3	12°45'18	29° 4	3°21	29°26	14°30	11° 8	26°44	10°19	4°36	24°26	5°24	4°53	6°25	22°38	T 5
F 6	4 57 59	13°46'19	13°11	4° 5	0°32	15°16	11°20	26°50	10°17	4°36	24°25	5°D23	4°50	6°32	22°42	F 6
S 7	5 1 56	14°47'22	27° 1	4°42	1°37	16° 3	11°32	26°57	10°15	4°R36	24°24	5°23	4°47	6°38	22°46	S 7
S 8	5 5 53	15°48'25	10°36	5°11	2°42	16°50	11°44	27° 4	10°13	4°36	24°24	5°24	4°44	6°45	22°50	S 8
M 9	5 9 49	16°49'29	23°54	5°32	3°47	17°36	11°56	27°11	10°11	4°36	24°23	5°25	4°40	6°52	22°53	M 9
T 10	5 13 46	17°50'34	6°15	5°43	4°51	18°23	12° 8	27°18	10°10	4°36	24°22	5°26	4°37	6°58	22°57	T 10
W 11	5 17 42	18°51'40	19°48	5°R44	5°55	19°10	12°20	27°25	10° 8	4°36	24°22	5°27	4°34	7° 5	23° 0	W 11
T 12	5 21 39	19°52'47	2°26	5°34	6°59	19°57	12°32	27°32	10° 6	4°36	24°21	5°R28	4°31	7°12	23° 3	T 12
F 13	5 25 35	20°53'55	14°53	5°12	8° 3	20°44	12°44	27°38	10° 4	4°36	24°21	5°28	4°28	7°18	23° 7	F 13
S 14	5 29 32	21°55'03	27° 9	4°39	9° 6	21°30	12°55	27°45	10° 3	4°35	24°20	5°26	4°25	7°25	23°10	S 14
S 15	5 33 28	22°56'12	9°36	3°54	10° 9	22°17	13° 7	27°52	10° 1	4°35	24°20	5°24	4°21	7°32	23°12	S 15
M 16	5 37 25	23°57'21	21°16	2°59	11°11	23° 4	13°18	27°58	9°59	4°35	24°19	5°22	4°18	7°39	23°15	M 16
T 17	5 41 22	24°58'31	3° 9	1°54	12°14	23°51	13°30	28° 5	9°58	4°34	24°19	5°18	4°15	7°45	23°18	T 17
W 18	5 45 18	25°59'40	15° 0	0°41	13°15	24°38	13°41	28°12	9°56	4°34	24°18	5°15	4°12	7°52	23°20	W 18
T 19	5 49 15	27° 0'50	26°51	29°22	14°17	25°25	13°53	28°18	9°55	4°34	24°18	5°12	4° 9	7°59	23°23	T 19
F 20	5 53 11	28° 2'00	8°45	28° 0	15°18	26°12	14° 4	28°25	9°53	4°33	24°17	5° 9	4° 6	8° 5	23°25	F 20
S 21	5 57 8	29° 3'10	20°47	26°38	16°19	27° 0	14°15	28°31	9°52	4°33	24°17	5° 8	4° 2	8°12	23°27	S 21
S 22	6 1 4	0°3 4'20	3°Y 2	25°18	17°19	27°47	14°26	28°37	9°51	4°32	24°16	5°D 7	3°59	8°19	23°29	S 22
M 23	6 5 1	1° 5'30	15°33	24° 3	18°19	28°34	14°37	28°44	9°49	4°32	24°16	5° 8	3°56	8°26	23°31	M 23
T 24	6 8 57	2° 6'39	28°26	22°55	19°18	29°21	14°48	28°50	9°48	4°31	24°16	5°10	3°53	8°32	23°33	T 24
W 25	6 12 54	3° 7'49	11°8'44	21°56	20°17	0° 8	14°59	28°57	9°47	4°31	24°15	5°11	3°50	8°39	23°35	W 25
T 26	6 16 51	4° 8'59	25°28	21° 6	21°15	0°55	15° 9	29° 3	9°46	4°30	24°15	5°13	3°46	8°46	23°37	T 26
F 27	6 20 47	5°10'08	9°II 40	20°26	22°13	1°42	15°20	29° 9	9°45	4°29	24°15	5°R13	3°43	8°52	23°38	F 27
S 28	6 24 44	6°11'18	24°17	19°57	23°10	2°30	15°31	29°15	9°43	4°29	24°15	5°12	3°40	8°59	23°39	S 28
S 29	6 28 40	7°12'27	9°212	19°38	24° 7	3°17	15°41	29°21	9°42	4°28	24°14	5° 9	3°37	9° 6	23°41	S 29
M 30	6 32 37	8°13'36	24°19	19°D29	25° 3	4° 4	15°51	29°27	9°41	4°27	24°14	5° 5	3°34	9°13	23°42	M 30
T 31	6 36 33	9°14'46	9°26	19°29	25°59	4°51	16°16	29°33	9°40	4°27	24°14	4°59	3°31	9°19	23°43	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	21s48	21n13	2s16	25s42	2s13	23s43	2s35	24s11	1s11	14s 0	1n 0	17s32	1n53	14n36	0s24	10n34
M 2	21 57	19 12	3 25	25 37	2 8	23 29	2 34	24 7	1 11	14 3	1 0	17 34	1 53	14 36	0 24	10 34
T 3	22 6	15 56	4 19	25 31	2 2	23 15	2 32	24 3	1 11	14 7	1 0	17 35	1 53	14 35	0 24	10 34
W 4	22 14	11 43	4 57	25 23	1 55	23 0	2 31	23 58	1 12	14 11	1 0	17 37	1 53	14 34	0 24	10 34
T 5	22 23	6 54	5 15	25 14	1 47	22 44	2 29	23 53	1 12	14 15	1 0	17 38	1 53	14 34	0 24	10 34
F 6	22 30	1 47	5 14	25 4	1 38	22 28	2 27	23 48	1 12	14 18	1 0	17 40	1 53	14 33	0 24	10 34
S 7	22 37	3s19	4 55	24 52	1 28	22 12	2 25	23 42	1 12	14 22	1 0	17 42	1 53	14 33	0 24	10 34
S 8	22 44	8 11	4 19	24 39	1 16	21 55	2 23	23 37	1 12	14 26	1 0	17 43	1 53	14 32	0 24	10 34
M 9	22 50	12 33	3 30	24 25	1 3	21 37	2 20	23 31	1 12	14 29	1 0	17 45	1 53	14 31	0 24	10 34
T 10	22 56	16 15	2 31	24 10	0 49	21 19	2 18	23 24	1 11	14 33	1 0	17 46	1 53	14 31	0 24	10 34
W 11	23 1	19 6	1 26	23 55	0 33	21 1	2 15	23 18	1 11	14 37	1 1	17 48	1 53	14 30	0 24	10 34
T 12	23 6	20 58	0 17	23 38	0 16	20 42	2 12	23 11	1 11	14 40	1 1	17 49	1 53	14 30	0 24	10 34
F 13	23 11	21 46	0s2	23 21	0n 2	20 22	2 9	23 4	1 11	14 44	1 1	17 51	1 53	14 29	0 24	10 34
S 14	23 15	21 31	1 57	23 3	0 21	20 2	2 6	22 56	1 11	14 47	1 1	17 52	1 53	14 29	0 24	10 35
S 15	23 18	20 14	2 56	22 45	0 41	19 42	2 2	22 49	1 11	14 51	1 1	17 54	1 53	14 28	0 24	10 35
M 16	23 21	18 4	3 47	22 27	1 1	19 22	1 59	22 41	1 11	14 54	1 1	17 55	1 53	14 28	0 24	10 35
T 17	23 24	15 10	4 27	22 8	1 21	19 1	1 55	22 33	1 11	14 57	1 1	17 56	1 53	14 27	0 24	10 35
W 18	23 26	11 40	4 55	21 49	1 40	18 39	1 51	22 24	1 11	15 1	1 1	17 58	1 53	14 27	0 24	10 35
T 19	23 27	7 43	5 11	21 31	1 58	18 17	1 47	22 16	1 11	15 4	1 1	17 59	1 53	14 26	0 24	10 35
F 20	23 28	3 27	5 14	21 13	2 15	17 55	1 43	22 7	1 11	15 7	1 1	18 1	1 53	14 26	0 24	10 36
S 21	23 29	0n59	5 3	20 57	2 30	17 33	1 39	21 58	1 11	15 11	1 1	18 2	1 53	14 26	0 24	10 36
S 22	23 29	5 28	4 38	20 42	2 43	17 10	1 34	21 48	1 11	15 14	1 1	18 3	1 53	14 25	0 24	10 36
M 23	23 29	9 49	4 0	20 28	2 53	16 47	1 29	21 39	1 11	15 17	1 1	18 5	1 53	14 25	0 24	10 36
T 24	23 28	13 52	3 8	20 17	3 1	16 24	1 24	21 29	1 10	15 20	1 1	18 6	1 53	14 24	0 24	10 36
W 25	23 27	17 22	2 5	20 9	3 6	16 1	1 19	21 19	1 10	15 23	1 1	18 7	1 53	14 24	0 24	10 37
T 26	23 25	20 2	0 53	20 2	3 9	15 37	1 14	21 8	1 10	15 26	1 1	18 9	1 53	14 24	0 24	10 37
F 27	23 23	21 33	0s24	19 59	3 10	15 13	1 8	20 58	1 10	15 29	1 2	18 10	1 53	14 23	0 24	10 37
S 28	23 21	21 40	1 43	19 57	3 10	14 49	1 3	20 47	1 10	15 32	1 2	18 11	1 53	14 23	0 24	10 37
S 29	23 18	20 15	2 55	19 59	3 7	14 24	0 57	20 36	1 10	15 35	1 2	18 12	1 53	14 23	0 24	10 38
M 30	23 14	17 25	3 56	20 2	3 3	14 0	0 51	20 24	1 10	15 38	1 2	18 14	1 54	14 22	0 24	10 38
T 31	23s10	13n25	4s41	20s 7	2n58	13s35	0s45	20s13	1s 9	15s41	1n 2	18s15	1n54	14n22	0s24	10n38

Julian Day Number = 2306512.5, Delta T = 85.03 sec
 Ecliptic obliquity = 23°29'23", Nutation = 0°00'15", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°11'54", Lahiri = 18°18'55"Greg. Calendar