



# Astrodienst Ephemeris Tables for the year 1634

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 1634

## geocentric

JANUARY 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 25	10°34'43"	27°32'0"	29°37'3"	10°37'32"	24°17'53"	24°R11	15°37'51"	4°29'29"	11°14'47"	23°R57	3°R17	3°Y51	11°14'4	21°D31	S 1
M 2	6 46 22	11°45'45"	12°32'27"	0°34'48"	11°47'	25°10'	24°II 3	15°57'	4°29'	11°49'	23°R57	3°Y 8	3°48'	11°11'	21°Y31	M 2
T 3	6 50 18	12°46'56"	27°21'	1°54'	13° 1'	25°27'	23°56'	16° 4'	4°29'	11°50'	23°56'	3° 1'	3°45'	11°18'	21°31'	T 3
W 4	6 54 15	13°48'07"	11°35'57"	2°54'	14°16'	25°43'	23°49'	16°10'	4°30'	11°51'	23°55'	2°58'	3°42'	11°24'	21°31'	W 4
T 5	6 58 11	14°49'17"	26° 9'	3°48'	15°30'	25°59'	23°42'	16°17'	4°30'	11°53'	23°54'	2°56'	3°38'	11°31'	21°32'	T 5
F 6	7 2 8	15°50'27"	9°Y57	4°34'	16°44'	26°14'	23°35'	16°23'	4°30'	11°54'	23°54'	2°56'	3°35'	11°38'	21°32'	F 6
S 7	7 6 4	16°51'36"	23°23'	5°12'	17°59'	26°29'	23°28'	16°30'	4°30'	11°55'	23°53'	2°56'	3°32'	11°44'	21°32'	S 7
S 8	7 10 1	17°52'44"	6°R29	5°40'	19°13'	26°44'	23°21'	16°36'	4°R30	11°56'	23°53'	2°55'	3°29'	11°51'	21°33'	S 8
M 9	7 13 58	18°53'52"	19°18'	5°59'	20°28'	26°58'	23°14'	16°43'	4°30'	11°57'	23°52'	2°51'	3°26'	11°58'	21°33'	M 9
T 10	7 17 54	19°54'58"	1II54	6°R 7	21°42'	27°11'	23° 8'	16°49'	4°30'	11°58'	23°51'	2°44'	3°23'	12° 5'	21°34'	T 10
W11	7 21 51	20°56'05"	14°18'	6° 4'	22°57'	27°24'	23° 1'	16°55'	4°30'	12° 0'	23°51'	2°35'	3°19'	12°11'	21°34'	W11
T 12	7 25 47	21°57'10"	26°34'	5°49'	24°11'	27°36'	22°55'	17° 2'	4°30'	12° 1'	23°50'	2°23'	3°16'	12°18'	21°35'	T 12
F 13	7 29 44	22°58'15"	8°R42	5°22'	25°26'	27°48'	22°49'	17° 8'	4°30'	12° 2'	23°50'	2°10'	3°13'	12°25'	21°35'	F 13
S 14	7 33 40	23°59'19"	20°43'	4°44'	26°40'	27°59'	22°43'	17°14'	4°29'	12° 3'	23°49'	1°56'	3°10'	12°31'	21°36'	S 14
S 15	7 37 37	25° 0'23"	2°R39	3°55'	27°55'	28°10'	22°37'	17°20'	4°29'	12° 4'	23°49'	1°44'	3° 7'	12°38'	21°37'	S 15
M16	7 41 33	26° 1'26"	14°30'	2°57'	29°10'	28°20'	22°31'	17°26'	4°29'	12° 4'	23°48'	1°33'	3° 3'	12°45'	21°38'	M16
T 17	7 45 30	27° 2'28"	26°20'	1°51'	0°R24	28°30'	22°26'	17°32'	4°28'	12° 5'	23°48'	1°24'	3° 0'	12°51'	21°39'	T 17
W18	7 49 27	28° 3'29"	8°R 9	0°39'	1°39'	28°39'	22°20'	17°38'	4°28'	12° 6'	23°48'	1°19'	2°57'	12°58'	21°40'	W18
T 19	7 53 23	29° 4'30"	20° 1'	29°R24	2°53'	28°47'	22°15'	17°44'	4°27'	12° 7'	23°47'	1°16'	2°54'	13° 5'	21°41'	T 19
F 20	7 57 20	0°35'53"	2°R 0	28° 8'	4° 8'	28°55'	22°10'	17°50'	4°26'	12° 8'	23°47'	1°D15	2°51'	13°11'	21°42'	F 20
S 21	8 1 16	1° 6'30"	14° 9'	26°52'	5°23'	29° 2'	22° 5'	17°56'	4°26'	12° 9'	23°46'	1°16'	2°48'	13°18'	21°43'	S 21
S 22	8 5 13	2° 7'29"	26°35'	25°40'	6°37'	29° 8'	22° 1'	18° 1'	4°25'	12° 9'	23°46'	1°R16	2°44'	13°25'	21°44'	S 22
M23	8 9 9	3° 8'27"	9°R22	24°32'	7°52'	29°14'	21°56'	18° 7'	4°24'	12°10'	23°46'	1°16'	2°41'	13°32'	21°45'	M23
T 24	8 13 6	4° 9'25"	22°34'	23°31'	9° 7'	29°19'	21°52'	18°13'	4°23'	12°11'	23°45'	1°15'	2°38'	13°38'	21°47'	T 24
W25	8 17 2	5°10'22"	6°R16	22°38'	10°21'	29°24'	21°48'	18°18'	4°23'	12°11'	23°45'	1°11'	2°35'	13°45'	21°48'	W25
T 26	8 20 59	6°11'18"	20°27'	21°52'	11°36'	29°28'	21°44'	18°24'	4°22'	12°12'	23°45'	1° 5'	2°32'	13°52'	21°50'	T 26
F 27	8 24 56	7°12'14"	5°R 6	21°15'	12°51'	29°31'	21°40'	18°29'	4°21'	12°13'	23°45'	0°57'	2°29'	13°58'	21°51'	F 27
S 28	8 28 52	8°13'08"	20° 8'	20°47'	14° 5'	29°33'	21°36'	18°35'	4°20'	12°13'	23°44'	0°48'	2°25'	14° 5'	21°53'	S 28
S 29	8 32 49	9°14'02"	5°R24	20°27'	15°20'	29°35'	21°33'	18°40'	4°19'	12°14'	23°44'	0°40'	2°22'	14°12'	21°54'	S 29
M30	8 36 45	10°14'54"	20°43'	20°16'	16°35'	29°35'	21°30'	18°45'	4°17'	12°14'	23°44'	0°33'	2°19'	14°18'	21°56'	M30
T 31	8 40 42	11°15'45"	5°R53	20°D12	17°R49	29°R36	21°II27	18°37'50"	4°16'	12°14'	23°R44	0°Y28	2°Y16	14°R25	21°Y58	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	23 s 3	25 s13	4 s34	21 s30	1 s15	20 s48	1 n17	4 n36	2 n48	23 n 6	0 s16	21 s21	1 n23	1 s 7	0 n44	13 s43
M 2	22 58	20 50	3 53	21 5	1 5	21 1	1 15	4 31	2 49	23 6	0 16	21 22	1 23	1 7	0 44	13 43
T 3	22 52	15 10	2 56	20 39	0 54	21 13	1 12	4 25	2 51	23 5	0 16	21 23	1 23	1 7	0 44	13 44
W 4	22 46	8 46	1 49	20 14	0 42	21 24	1 10	4 20	2 52	23 5	0 15	21 23	1 23	1 7	0 44	13 44
T 5	22 40	2 5	0 36	19 48	0 28	21 35	1 7	4 15	2 53	23 5	0 15	21 24	1 23	1 7	0 44	13 44
F 6	22 33	4 n31	0 n37	19 23	0 14	21 45	1 5	4 10	2 55	23 5	0 15	21 25	1 23	1 7	0 44	13 45
S 7	22 25	10 44	1 46	18 59	0 n 1	21 55	1 2	4 6	2 56	23 5	0 15	21 25	1 23	1 7	0 44	13 45
S 8	22 18	16 21	2 48	18 36	0 18	22 4	1 0	4 1	2 58	23 5	0 15	21 26	1 23	1 7	0 44	13 45
M 9	22 9	21 6	3 39	18 15	0 35	22 12	0 57	3 57	2 59	23 4	0 15	21 27	1 23	1 7	0 44	13 46
T 10	22 0	24 49	4 19	17 56	0 53	22 19	0 54	3 53	3 1	23 4	0 14	21 27	1 23	1 7	0 44	13 46
W11	21 51	27 18	4 46	17 39	1 11	22 26	0 52	3 49	3 2	23 4	0 14	21 28	1 23	1 7	0 44	13 46
T 12	21 42	28 26	5 0	17 24	1 30	22 33	0 49	3 46	3 3	23 4	0 14	21 28	1 23	1 7	0 44	13 46
F 13	21 32	28 11	4 59	17 13	1 48	22 38	0 46	3 42	3 5	23 4	0 14	21 29	1 23	1 7	0 44	13 47
S 14	21 21	26 35	4 45	17 4	2 7	22 43	0 44	3 39	3 6	23 4	0 14	21 30	1 23	1 6	0 45	13 47
S 15	21 10	23 49	4 19	16 59	2 24	22 47	0 41	3 36	3 8	23 3	0 14	21 30	1 23	1 6	0 45	13 47
M16	20 59	20 3	3 42	16 56	2 40	22 51	0 38	3 33	3 9	23 3	0 13	21 31	1 23	1 6	0 45	13 47
T 17	20 48	15 30	2 55	16 57	2 55	22 54	0 36	3 31	3 11	23 3	0 13	21 31	1 23	1 6	0 45	13 48
W18	20 36	10 23	2 0	17 0	3 8	22 56	0 33	3 29	3 12	23 3	0 13	21 32	1 23	1 6	0 45	13 48
T 19	20 23	4 53	1 0	17 5	3 18	22 57	0 30	3 27	3 14	23 3	0 13	21 32	1 23	1 5	0 45	13 48
F 20	20 10	0 s51	0 s 4	17 13	3 26	22 58	0 27	3 25	3 15	23 3	0 13	21 33	1 23	1 5	0 45	13 48
S 21	19 57	6 39	1 9	17 22	3 32	22 58	0 24	3 24	3 17	23 3	0 13	21 33	1 23	1 5	0 45	13 48
S 22	19 44	12 19	2 11	17 32	3 35	22 58	0 22	3 22	3 18	23 2	0 12	21 34	1 23	1 4	0 45	13 49
M23	19 30	17 38	3 9	17 43	3 35	22 56	0 19	3 22	3 20	23 2	0 12	21 34	1 24	1 4	0 45	13 49
T 24	19 15	22 18	3 59	17 55	3 34	22 54	0 16	3 21	3 21	23 2	0 12	21 35	1 24	1 4	0 45	13 49
W25	19 1	25 57	4 38	18 8	3 30	22 52	0 13	3 20	3 23	23 2	0 12	21 35	1 24	1 3	0 45	13 49
T 26	18 46	28 9	5 1	18 20	3 25	22 48	0 11	3 20	3 24	23 2	0 12	21 36	1 24	1 3	0 45	13 49
F 27	18 31	28 28	5 5	18 33	3 18	22 44	0 8	3 20	3 26	23 2	0 12	21 36	1 24	1 3	0 45	13 49
S 28	18 15	26 44	4 49	18 45	3 10	22 39	0 5	3 21	3 27	23 2	0 11	21 36	1 24	1 2	0 45	13 49
S 29	17 59	23 2	4 12	18 57	3 1	22 34	0 2	3 22	3 29	23 2	0 11	21 37	1 24	1 2	0 45	13 49
M30	17 43	17 44	3 17	19 9	2 51	22 28	0 s 0	3 23	3 30	23 2	0 11	21 37	1 24	1 1	0 45	13 50
T 31	17 s26	11 s22	2 s 8	19 s20	2 n40	22 s21	0 s 3	3 n24	3 n32	23 n 2	0 s11	21 s38	1 n24	1 s 1	0 n45	13 s50

Julian Day Number = 2317866.5, Delta T = 54.83 sec  
 Ecliptic obliquity = 23°29'21", Nutation = - 0°00'00", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 19°37'55", Lahiri = 18°44'55"Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1634

## geocentric

FEBRUARY 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 44 38	12 <sup>28</sup> 16'35	20 <sup>11</sup> 46	20 <sup>28</sup> 16	19 <sup>28</sup> 4	29°R35	21°R24	18 <sup>27</sup> 56	4°R15	12 <sup>12</sup> 15	23°R44	0°R26	2°Y13	14 <sup>12</sup> 32	21°Y59	W 1
T 2	8 48 35	13°17'23	5°Y15	20°27	20°19	29°M34	21°II21	19° 1	4°A14	12°15	23°B44	0°D26	2° 9	14°38	22° 1	T 2
F 3	8 52 32	14°18'09	19°17	20°45	21°33	29°31	21°19	19° 6	4°12	12°16	23°44	0°Y27	2° 6	14°45	22° 3	F 3
S 4	8 56 28	15°18'54	2°B52	21° 8	22°48	29°29	21°16	19°11	4°11	12°16	23°44	0°28	2° 3	14°52	22° 5	S 4
S 5	9 0 25	16°19'38	16° 2	21°37	24° 3	29°25	21°14	19°15	4°10	12°16	23°44	0°R29	2° 0	14°59	22° 7	S 5
M 6	9 4 21	17°20'20	28°50	22°11	25°17	29°21	21°12	19°20	4° 8	12°16	23°D44	0°28	1°57	15° 5	22° 9	M 6
T 7	9 8 18	18°21'00	11°II21	22°50	26°32	29°15	21°11	19°25	4° 7	12°16	23°44	0°25	1°54	15°12	22°11	T 7
W 8	9 12 14	19°21'38	23°38	23°33	27°47	29° 9	21° 9	19°30	4° 5	12°17	23°44	0°21	1°50	15°19	22°13	W 8
T 9	9 16 11	20°22'15	5°B44	24°19	29° 1	29° 3	21° 8	19°34	4° 3	12°17	23°44	0°14	1°47	15°25	22°15	T 9
F 10	9 20 7	21°22'50	17°43	25°10	0°A16	28°55	21° 7	19°39	4° 2	12°17	23°44	0° 7	1°44	15°32	22°18	F 10
S 11	9 24 4	22°23'24	29°37	26° 4	1°31	28°47	21° 6	19°43	4° 0	12°17	23°44	29°K59	1°41	15°39	22°20	S 11
S 12	9 28 1	23°23'55	11°II28	27° 1	2°45	28°38	21° 6	19°48	3°58	12°R17	23°44	29°53	1°38	15°45	22°22	S 12
M13	9 31 57	24°24'26	23°18	28° 0	4° 0	28°28	21° 5	19°52	3°57	12°17	23°44	29°47	1°35	15°52	22°24	M13
T 14	9 35 54	25°24'54	5°M 9	29° 3	5°15	28°17	21° 5	19°56	3°55	12°17	23°44	29°42	1°31	15°59	22°27	T 14
W15	9 39 50	26°25'21	17° 2	0°A 7	6°29	28° 6	21°D 5	20° 0	3°53	12°17	23°44	29°40	1°28	16° 5	22°29	W15
T 16	9 43 47	27°25'46	29° 1	1°14	7°44	27°54	21° 5	20° 4	3°51	12°17	23°45	29°D39	1°25	16°12	22°32	T 16
F 17	9 47 43	28°26'10	11°A 6	2°23	8°59	27°41	21° 5	20° 8	3°49	12°17	23°45	29°39	1°22	16°19	22°34	F 17
S 18	9 51 40	29°26'32	23°22	3°35	10°13	27°27	21° 6	20°12	3°47	12°16	23°45	29°41	1°19	16°25	22°37	S 18
S 19	9 55 36	0°K26'53	5°M52	4°48	11°28	27°13	21° 7	20°16	3°45	12°16	23°45	29°43	1°15	16°32	22°40	S 19
M20	9 59 33	1°27'13	18°40	6° 2	12°43	26°57	21° 8	20°20	3°43	12°16	23°46	29°44	1°12	16°39	22°42	M20
T 21	10 3 29	2°27'31	1°A48	7°19	13°57	26°42	21° 9	20°23	3°41	12°16	23°46	29°R45	1° 9	16°45	22°45	T 21
W22	10 7 26	3°27'48	15°21	8°37	15°12	26°25	21°10	20°27	3°39	12°15	23°46	29°44	1° 6	16°52	22°48	W22
T 23	10 11 23	4°28'03	29°19	9°56	16°27	26° 8	21°12	20°30	3°37	12°15	23°47	29°42	1° 3	16°59	22°50	T 23
F 24	10 15 19	5°28'17	13°B43	11°17	17°41	25°50	21°14	20°34	3°35	12°15	23°47	29°40	1° 0	17° 6	22°53	F 24
S 25	10 19 16	6°28'29	28°29	12°40	18°56	25°32	21°16	20°37	3°33	12°14	23°47	29°37	0°56	17°12	22°56	S 25
S 26	10 23 12	7°28'39	13°A31	14° 3	20°11	25°13	21°18	20°40	3°30	12°14	23°48	29°33	0°53	17°19	22°59	S 26
M27	10 27 9	8°28'48	28°42	15°28	21°25	24°53	21°20	20°43	3°28	12°13	23°48	29°31	0°50	17°26	23° 2	M27
T 28	10 31 5	9°K28'55	13°K50	16°A55	22°A40	24°M33	21°II22	20°A46	3°A26	12°M13	23°B49	29°K29	0°Y47	17°B32	23°Y 5	T 28

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	17s 9	4s28	0s52	19s30	2n29	22s13	0s 6	3n25	3n33	23n 2	0s11	21s38	1n24	1s 0	0n45	13s50	1n48	5n41	13s27	0n10	0n53	20n 9	8n45	0n11
T 2	16 52	2n29	0n26	19 40	2 18	22 5	0 8	3 27	3 34	23 2	0 11	21 38	1 24	1 0	0 45	13 50	1 48	5 42	13 27	0 10	0 52	20 6	8 46	0 11
F 3	16 34	9 6	1 40	19 48	2 6	21 56	0 11	3 29	3 36	23 2	0 10	21 39	1 24	0 59	0 45	13 50	1 48	5 42	13 27	0 11	0 50	20 4	8 46	0 11
S 4	16 17	15 5	2 46	19 56	1 54	21 47	0 14	3 32	3 37	23 2	0 10	21 39	1 24	0 58	0 45	13 50	1 48	5 42	13 26	0 11	0 49	20 1	8 47	0 10
S 5	15 59	20 12	3 41	20 4	1 43	21 37	0 16	3 34	3 39	23 2	0 10	21 39	1 24	0 58	0 45	13 50	1 48	5 42	13 26	0 11	0 48	19 59	8 47	0 10
M 6	15 40	24 14	4 24	20 10	1 31	21 26	0 19	3 37	3 40	23 2	0 10	21 40	1 24	0 57	0 45	13 50	1 48	5 43	13 26	0 11	0 47	19 56	8 48	0 10
T 7	15 22	27 1	4 53	20 15	1 20	21 14	0 21	3 41	3 41	23 2	0 10	21 40	1 24	0 57	0 45	13 50	1 49	5 43	13 26	0 10	0 45	19 53	8 49	0 10
W 8	15 3	28 27	5 7	20 19	1 8	21 2	0 24	3 44	3 42	23 2	0 10	21 40	1 24	0 56	0 45	13 50	1 49	5 43	13 25	0 8	0 44	19 51	8 50	0 10
T 9	14 44	28 30	5 8	20 22	0 57	20 50	0 26	3 48	3 44	23 2	0 9	21 41	1 24	0 55	0 45	13 50	1 49	5 44	13 25	0 6	0 43	19 48	8 50	0 10
F 10	14 24	27 11	4 55	20 24	0 46	20 36	0 29	3 52	3 45	23 2	0 9	21 41	1 24	0 55	0 45	13 50	1 49	5 44	13 25	0 3	0 41	19 46	8 51	0 10
S 11	14 5	24 40	4 30	20 24	0 35	20 22	0 31	3 56	3 46	23 2	0 9	21 41	1 24	0 54	0 45	13 50	1 49	5 44	13 24	0s 0	0 40	19 43	8 52	0 10
S 12	13 45	21 6	3 52	20 24	0 25	20 8	0 34	4 1	3 47	23 2	0 9	21 42	1 24	0 53	0 45	13 50	1 49	5 45	13 24	0 3	0 39	19 40	8 53	0 10
M13	13 25	16 42	3 5	20 22	0 14	19 53	0 36	4 6	3 48	23 3	0 9	21 42	1 25	0 53	0 45	13 50	1 49	5 45	13 24	0 5	0 38	19 38	8 53	0 10
T 14	13 5	11 39	2 10	20 19	0 4	19 37	0 38	4 11	3 49	23 3	0 9	21 42	1 25	0 52	0 45	13 50	1 49	5 45	13 23	0 7	0 36	19 35	8 54	0 10
W15	12 44	6 11	1 8	20 15	0s 5	19 21	0 41	4 17	3 50	23 3	0 9	21 42	1 25	0 51	0 46	13 49	1 49	5 46	13 23	0 8	0 35	19 33	8 55	0 10
T 16	12 23	0 27	0 3	20 10	0 15	19 4	0 43	4 22	3 51	23 3	0 8	21 43	1 25	0 50	0 46	13 49	1 49	5 46	13 23	0 8	0 34	19 30	8 56	0 9
F 17	12 3	5s22	1s 2	20 3	0 24	18 46	0 45	4 28	3 52	23 3	0 8	21 43	1 25	0 49	0 46	13 49	1 49	5 46	13 22	0 8	0 33	19 27	8 57	0 9
S 18	11 41	11 3	2 6	19 55	0 32	18 28	0 47	4 34	3 53	23 3	0 8	21 43	1 25	0 49	0 46	13 49	1 49	5 47	13 22	0 8	0 31	19 25	8 58	0 9
S 19	11 20	16 25	3 6	19 46	0 41	18 10	0 49	4 41	3 53	23 4	0 8	21 43	1 25	0 48	0 46	13 49	1 49	5 47	13 22	0 7	0 30	19 22	8 58	0 9
M20	10 59	21 13	3 57	19 36	0 49	17 51	0 51	4 47	3 54	23 4	0 8	21 43	1 25	0 47	0 46	13 49	1 49	5 47	13 21	0 6	0 29	19 19	8 59	0 9
T 21	10 37	25 6	4 38	19 24	0 57	17 31	0 53	4 54	3 55	23 4	0 8	21 44	1 25	0 46	0 46	13 49	1 49	5 48	13 21	0 6	0 28	19 17	9 0	0 9
W22	10 15	27 44	5 5	19 11	1 4	17 11	0 55	5 1	3 55	23 4	0 7	21 44	1 25	0 45	0 46	13 49	1 49	5 48	13 21	0 6	0 26	19 14	9 1	0 9
T 23	9 54	28 44	5 14	18 56	1 11	16 51	0 57	5 9	3 56	23 4	0 7	21 44	1 25	0 44	0 46	13 48	1 49	5 49	13 21	0 7	0 25	19 11	9 2	0 9
F 24	9 31	27 50	5 5	18 41	1 18	16 30	0 59	5 16	3 56	23 5	0 7	21 44	1 25	0 44	0 46	13 48	1 50	5 49	13 20	0 8	0 24	19 9	9 3	0 9
S 25	9 9	25 0	4 36	18 23	1 24	16 9	1 1	5 24	3 57	23 5	0 7	21 44	1 25	0 43	0 46	13 48	1 50	5 49	13 20	0 9	0 22	19 6	9 4	0 9
S 26	8 47	20 25	3 47	18 5	1 30	15 47	1 3	5 32	3 57	23 5	0 7	21 44	1 25	0 42	0 46	13 48	1 50	5 50	13 20	0 11	0 21	19 3	9 5	0 9
M27	8 24	14 29	2 42	17 45	1 36	15 24	1 4	5 40	3 57	23 6	0 7	21 45	1 25	0 41	0 46	13 48	1 50	5 50	13 19	0 12	0 20	19 1	9 6	0 8
T 28	8s 2	7s41	1s25	17s24	1s41	15s 2	1s 6	5n48	3n57	23n 6	0s 7	21s45	1n26	0s40	0n46	13s47	1n50	5n51	13s19	0s12	0n19	18n58	9n 7	0n 8

Julian Day Number = 2317897.5, Delta T = 54.77 sec

Ecliptic obliquity = 23°29'22, Nutation = 0°00'01, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°37'59, Lahiri = 18°45'00Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1634

## geocentric

MARCH 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 35 2	10 <sup>h</sup> 29'00	28 <sup>h</sup> 47	18 <sup>h</sup> 22	23 <sup>h</sup> 54	24 <sup>h</sup> R12	21 <sup>h</sup> 25	20 <sup>h</sup> 49	3 <sup>h</sup> R23	12 <sup>h</sup> R12	23 <sup>h</sup> 49	29 <sup>h</sup> D29	0 <sup>h</sup> Y44	17 <sup>h</sup> Ω39	23 <sup>h</sup> Y 8	W 1
T 2	10 38 58	11 <sup>h</sup> 29'03	13 <sup>h</sup> Y25	19 <sup>h</sup> 51	25 <sup>h</sup> 9	23 <sup>h</sup> Y51	21 <sup>h</sup> 28	20 <sup>h</sup> 52	3 <sup>h</sup> Ω21	12 <sup>h</sup> Y12	23 <sup>h</sup> 50	29 <sup>h</sup> Y29	0 <sup>h</sup> 41	17 <sup>h</sup> 46	23 <sup>h</sup> 11	T 2
F 3	10 42 55	12 <sup>h</sup> 29'04	27 <sup>h</sup> 38	21 <sup>h</sup> 21	26 <sup>h</sup> 24	23 <sup>h</sup> 30	21 <sup>h</sup> 31	20 <sup>h</sup> 55	3 <sup>h</sup> 19	12 <sup>h</sup> 11	23 <sup>h</sup> 50	29 <sup>h</sup> 30	0 <sup>h</sup> 37	17 <sup>h</sup> 52	23 <sup>h</sup> 14	F 3
S 4	10 46 52	13 <sup>h</sup> 29'02	11 <sup>h</sup> Ω25	22 <sup>h</sup> 53	27 <sup>h</sup> 38	23 <sup>h</sup> 8	21 <sup>h</sup> 34	20 <sup>h</sup> 58	3 <sup>h</sup> 16	12 <sup>h</sup> 10	23 <sup>h</sup> 51	29 <sup>h</sup> 31	0 <sup>h</sup> 34	17 <sup>h</sup> 59	23 <sup>h</sup> 17	S 4
S 5	10 50 48	14 <sup>h</sup> 28'59	24 <sup>h</sup> 45	24 <sup>h</sup> 25	28 <sup>h</sup> 53	22 <sup>h</sup> 45	21 <sup>h</sup> 38	21 <sup>h</sup> 0	3 <sup>h</sup> 14	12 <sup>h</sup> 10	23 <sup>h</sup> 51	29 <sup>h</sup> 33	0 <sup>h</sup> 31	18 <sup>h</sup> 6	23 <sup>h</sup> 20	S 5
M 6	10 54 45	15 <sup>h</sup> 28'54	7 <sup>h</sup> Y40	25 <sup>h</sup> 59	0 <sup>h</sup> Y 7	22 <sup>h</sup> 23	21 <sup>h</sup> 42	21 <sup>h</sup> 3	3 <sup>h</sup> 12	12 <sup>h</sup> 9	23 <sup>h</sup> 52	29 <sup>h</sup> 33	0 <sup>h</sup> 28	18 <sup>h</sup> 12	23 <sup>h</sup> 24	M 6
T 7	10 58 41	16 <sup>h</sup> 28'46	20 <sup>h</sup> 13	27 <sup>h</sup> 34	1 <sup>h</sup> 22	22 <sup>h</sup> 0	21 <sup>h</sup> 45	21 <sup>h</sup> 5	3 <sup>h</sup> 9	12 <sup>h</sup> 8	23 <sup>h</sup> 52	29 <sup>h</sup> R33	0 <sup>h</sup> 25	18 <sup>h</sup> 19	23 <sup>h</sup> 27	T 7
W 8	11 2 38	17 <sup>h</sup> 28'36	2 <sup>h</sup> Ω30	29 <sup>h</sup> 10	2 <sup>h</sup> 36	21 <sup>h</sup> 37	21 <sup>h</sup> 49	21 <sup>h</sup> 7	3 <sup>h</sup> 7	12 <sup>h</sup> 8	23 <sup>h</sup> 53	29 <sup>h</sup> 33	0 <sup>h</sup> 21	18 <sup>h</sup> 26	23 <sup>h</sup> 30	W 8
T 9	11 6 34	18 <sup>h</sup> 28'23	14 <sup>h</sup> 34	0 <sup>h</sup> Y47	3 <sup>h</sup> 51	21 <sup>h</sup> 14	21 <sup>h</sup> 54	21 <sup>h</sup> 10	3 <sup>h</sup> 4	12 <sup>h</sup> 7	23 <sup>h</sup> 54	29 <sup>h</sup> 32	0 <sup>h</sup> 18	18 <sup>h</sup> 32	23 <sup>h</sup> 33	T 9
F 10	11 10 31	19 <sup>h</sup> 28'09	26 <sup>h</sup> 29	2 <sup>h</sup> 25	5 <sup>h</sup> 6	20 <sup>h</sup> 50	21 <sup>h</sup> 58	21 <sup>h</sup> 12	3 <sup>h</sup> 2	12 <sup>h</sup> 6	23 <sup>h</sup> 54	29 <sup>h</sup> 31	0 <sup>h</sup> 15	18 <sup>h</sup> 39	23 <sup>h</sup> 37	F 10
S 11	11 14 28	20 <sup>h</sup> 27'52	8 <sup>h</sup> Ω19	4 <sup>h</sup> 5	6 <sup>h</sup> 20	20 <sup>h</sup> 27	22 <sup>h</sup> 2	21 <sup>h</sup> 14	2 <sup>h</sup> 59	12 <sup>h</sup> 5	23 <sup>h</sup> 55	29 <sup>h</sup> 29	0 <sup>h</sup> 12	18 <sup>h</sup> 46	23 <sup>h</sup> 40	S 11
S 12	11 18 24	21 <sup>h</sup> 27'33	20 <sup>h</sup> 9	5 <sup>h</sup> 46	7 <sup>h</sup> 35	20 <sup>h</sup> 3	22 <sup>h</sup> 7	21 <sup>h</sup> 16	2 <sup>h</sup> 57	12 <sup>h</sup> 4	23 <sup>h</sup> 56	29 <sup>h</sup> 28	0 <sup>h</sup> 9	18 <sup>h</sup> 52	23 <sup>h</sup> 43	S 12
M13	11 22 21	22 <sup>h</sup> 27'12	2 <sup>h</sup> Y 0	7 <sup>h</sup> 28	8 <sup>h</sup> 49	19 <sup>h</sup> 40	22 <sup>h</sup> 12	21 <sup>h</sup> 18	2 <sup>h</sup> 54	12 <sup>h</sup> 3	23 <sup>h</sup> 56	29 <sup>h</sup> 27	0 <sup>h</sup> 6	18 <sup>h</sup> 59	23 <sup>h</sup> 47	M13
T 14	11 26 17	23 <sup>h</sup> 26'49	13 <sup>h</sup> 55	9 <sup>h</sup> 11	10 <sup>h</sup> 4	19 <sup>h</sup> 16	22 <sup>h</sup> 17	21 <sup>h</sup> 19	2 <sup>h</sup> 52	12 <sup>h</sup> 2	23 <sup>h</sup> 57	29 <sup>h</sup> 26	0 <sup>h</sup> 2	19 <sup>h</sup> 6	23 <sup>h</sup> 50	T 14
W15	11 30 14	24 <sup>h</sup> 26'23	25 <sup>h</sup> 56	10 <sup>h</sup> 56	11 <sup>h</sup> 18	18 <sup>h</sup> 53	22 <sup>h</sup> 22	21 <sup>h</sup> 21	2 <sup>h</sup> 49	12 <sup>h</sup> 2	23 <sup>h</sup> 58	29 <sup>h</sup> D26	29 <sup>h</sup> Y59	19 <sup>h</sup> 12	23 <sup>h</sup> 53	W15
T 16	11 34 10	25 <sup>h</sup> 25'56	8 <sup>h</sup> Ω 6	12 <sup>h</sup> 41	12 <sup>h</sup> 32	18 <sup>h</sup> 30	22 <sup>h</sup> 28	21 <sup>h</sup> 22	2 <sup>h</sup> 47	12 <sup>h</sup> 1	23 <sup>h</sup> 59	29 <sup>h</sup> 26	29 <sup>h</sup> 56	19 <sup>h</sup> 19	23 <sup>h</sup> 57	T 16
F 17	11 38 7	26 <sup>h</sup> 25'26	20 <sup>h</sup> 25	14 <sup>h</sup> 29	13 <sup>h</sup> 47	18 <sup>h</sup> 7	22 <sup>h</sup> 33	21 <sup>h</sup> 24	2 <sup>h</sup> 44	12 <sup>h</sup> 0	23 <sup>h</sup> 59	29 <sup>h</sup> 26	29 <sup>h</sup> 53	19 <sup>h</sup> 26	24 <sup>h</sup> 0	F 17
S 18	11 42 3	27 <sup>h</sup> 24'55	2 <sup>h</sup> Y56	16 <sup>h</sup> 17	15 <sup>h</sup> 1	17 <sup>h</sup> 44	22 <sup>h</sup> 39	21 <sup>h</sup> 25	2 <sup>h</sup> 41	11 <sup>h</sup> 59	24 <sup>h</sup> 0	29 <sup>h</sup> 27	29 <sup>h</sup> 50	19 <sup>h</sup> 32	24 <sup>h</sup> 4	S 18
S 19	11 46 0	28 <sup>h</sup> 24'22	15 <sup>h</sup> 39	18 <sup>h</sup> 7	16 <sup>h</sup> 16	17 <sup>h</sup> 21	22 <sup>h</sup> 45	21 <sup>h</sup> 26	2 <sup>h</sup> 39	11 <sup>h</sup> 57	24 <sup>h</sup> 1	29 <sup>h</sup> 27	29 <sup>h</sup> 46	19 <sup>h</sup> 39	24 <sup>h</sup> 7	S 19
M20	11 49 56	29 <sup>h</sup> 23'47	28 <sup>h</sup> 38	19 <sup>h</sup> 57	17 <sup>h</sup> 30	16 <sup>h</sup> 59	22 <sup>h</sup> 51	21 <sup>h</sup> 28	2 <sup>h</sup> 36	11 <sup>h</sup> 56	24 <sup>h</sup> 2	29 <sup>h</sup> R27	29 <sup>h</sup> 43	19 <sup>h</sup> 46	24 <sup>h</sup> 11	M20
T 21	11 53 53	0 <sup>h</sup> Y23'10	11 <sup>h</sup> Y53	21 <sup>h</sup> 50	18 <sup>h</sup> 45	16 <sup>h</sup> 37	22 <sup>h</sup> 57	21 <sup>h</sup> 29	2 <sup>h</sup> 34	11 <sup>h</sup> 55	24 <sup>h</sup> 3	29 <sup>h</sup> 27	29 <sup>h</sup> 40	19 <sup>h</sup> 53	24 <sup>h</sup> 15	T 21
W22	11 57 50	1 <sup>h</sup> 22'32	25 <sup>h</sup> 25	23 <sup>h</sup> 43	19 <sup>h</sup> 59	16 <sup>h</sup> 15	23 <sup>h</sup> 3	21 <sup>h</sup> 30	2 <sup>h</sup> 31	11 <sup>h</sup> 54	24 <sup>h</sup> 4	29 <sup>h</sup> D27	29 <sup>h</sup> 37	19 <sup>h</sup> 59	24 <sup>h</sup> 18	W22
T 23	12 1 46	2 <sup>h</sup> 21'51	9 <sup>h</sup> Ω16	25 <sup>h</sup> 38	21 <sup>h</sup> 13	15 <sup>h</sup> 54	23 <sup>h</sup> 10	21 <sup>h</sup> 30	2 <sup>h</sup> 28	11 <sup>h</sup> 53	24 <sup>h</sup> 5	29 <sup>h</sup> 27	29 <sup>h</sup> 34	20 <sup>h</sup> 6	24 <sup>h</sup> 22	T 23
F 24	12 5 43	3 <sup>h</sup> 21'09	23 <sup>h</sup> 25	27 <sup>h</sup> 34	22 <sup>h</sup> 28	15 <sup>h</sup> 33	23 <sup>h</sup> 16	21 <sup>h</sup> 31	2 <sup>h</sup> 26	11 <sup>h</sup> 52	24 <sup>h</sup> 5	29 <sup>h</sup> 27	29 <sup>h</sup> 31	20 <sup>h</sup> 13	24 <sup>h</sup> 25	F 24
S 25	12 9 39	4 <sup>h</sup> 20'26	7 <sup>h</sup> Ω51	29 <sup>h</sup> 32	23 <sup>h</sup> 42	15 <sup>h</sup> 13	23 <sup>h</sup> 23	21 <sup>h</sup> 32	2 <sup>h</sup> 23	11 <sup>h</sup> 51	24 <sup>h</sup> 6	29 <sup>h</sup> 27	29 <sup>h</sup> 27	20 <sup>h</sup> 19	24 <sup>h</sup> 29	S 25
S 26	12 13 36	5 <sup>h</sup> 19'40	22 <sup>h</sup> 30	1 <sup>h</sup> Y30	24 <sup>h</sup> 57	14 <sup>h</sup> 53	23 <sup>h</sup> 30	21 <sup>h</sup> 32	2 <sup>h</sup> 21	11 <sup>h</sup> 49	24 <sup>h</sup> 7	29 <sup>h</sup> 28	29 <sup>h</sup> 24	20 <sup>h</sup> 26	24 <sup>h</sup> 33	S 26
M27	12 17 32	6 <sup>h</sup> 18'52	7 <sup>h</sup> Y18	3 <sup>h</sup> 30	26 <sup>h</sup> 11	14 <sup>h</sup> 34	23 <sup>h</sup> 37	21 <sup>h</sup> 33	2 <sup>h</sup> 18	11 <sup>h</sup> 48	24 <sup>h</sup> 8	29 <sup>h</sup> 28	29 <sup>h</sup> 21	20 <sup>h</sup> 33	24 <sup>h</sup> 36	M27
T 28	12 21 29	7 <sup>h</sup> 18'03	22 <sup>h</sup> 7	5 <sup>h</sup> 31	27 <sup>h</sup> 25	14 <sup>h</sup> 15	23 <sup>h</sup> 44	21 <sup>h</sup> 33	2 <sup>h</sup> 15	11 <sup>h</sup> 47	24 <sup>h</sup> 9	29 <sup>h</sup> R29	29 <sup>h</sup> 18	20 <sup>h</sup> 39	24 <sup>h</sup> 40	T 28
W29	12 25 25	8 <sup>h</sup> 17'12	6 <sup>h</sup> Y50	7 <sup>h</sup> 33	28 <sup>h</sup> 40	13 <sup>h</sup> 57	23 <sup>h</sup> 52	21 <sup>h</sup> 33	2 <sup>h</sup> 13	11 <sup>h</sup> 46	24 <sup>h</sup> 10	29 <sup>h</sup> 29	29 <sup>h</sup> 15	20 <sup>h</sup> 46	24 <sup>h</sup> 44	W29
T 30	12 29 22	9 <sup>h</sup> 16'18	21 <sup>h</sup> 21	9 <sup>h</sup> 36	29 <sup>h</sup> 54	13 <sup>h</sup> 40	23 <sup>h</sup> 59	21 <sup>h</sup> 34	2 <sup>h</sup> 10	11 <sup>h</sup> 44	24 <sup>h</sup> 11	29 <sup>h</sup> 28	29 <sup>h</sup> 12	20 <sup>h</sup> 53	24 <sup>h</sup> 48	T 30
F 31	12 33 19	10 <sup>h</sup> Y15'22	5 <sup>h</sup> Ω34	11 <sup>h</sup> Y40	1 <sup>h</sup> Y 8	13 <sup>h</sup> Y23	24 <sup>h</sup> Y 7	21 <sup>h</sup> R34	2 <sup>h</sup> Ω 8	11 <sup>h</sup> Y43	24 <sup>h</sup> Y12	29 <sup>h</sup> Y27	29 <sup>h</sup> Y 8	20 <sup>h</sup> Y59	24 <sup>h</sup> Y51	F 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1634  
geocentric

APRIL 1634 GC

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S 1	12 37 15	11°14'25	19°8'24	13°44'	2°23'	13°R 7	24°11'4	21°R34	2°R 5	11°R42	24°8'13	29°R26	29°H 5	21°Ω 6	24°V55	S 1
S 2	12 41 12	12°13'25	2°II49	15°49'	3°37'	12°M51	24°22'	21°A733	2°Ω 3	11°M40	24°14'	29°H24	29° 2	21°13	24°59	S 2
M 3	12 45 8	13°12'23	15°50'	17°54'	4°51'	12°37'	24°30'	21°33'	2° 0	11°39'	24°15'	29°22'	28°59'	21°19'	25° 3	M 3
T 4	12 49 5	14°11'18	28°29'	19°59'	6° 6'	12°23'	24°39'	21°33'	1°58'	11°38'	24°16'	29°21'	28°56'	21°26'	25° 6	T 4
W 5	12 53 1	15°10'12	10°34'9	22° 4'	7°20'	12°10'	24°47'	21°32'	1°55'	11°36'	24°17'	29°D21	28°52'	21°33'	25°10'	W 5
T 6	12 56 58	16° 9'03	22°54'	24° 9'	8°34'	11°57'	24°55'	21°32'	1°53'	11°35'	24°19'	29°21'	28°49'	21°39'	25°14'	T 6
F 7	13 0 54	17° 7'51	4°Ω49	26°13'	9°48'	11°46'	25° 4'	21°31'	1°50'	11°33'	24°20'	29°21'	28°46'	21°46'	25°18'	F 7
S 8	13 4 51	18° 6'38	16°39'	28°15'	11° 3'	11°35'	25°13'	21°31'	1°48'	11°32'	24°21'	29°23'	28°43'	21°53'	25°22'	S 8
S 9	13 8 48	19° 5'22	28°29'	0°8'16	12°17'	11°25'	25°21'	21°30'	1°45'	11°30'	24°22'	29°24'	28°40'	21°59'	25°26'	S 9
M10	13 12 44	20° 4'04	10°M22	2°15'	13°31'	11°16'	25°30'	21°29'	1°43'	11°29'	24°23'	29°26'	28°37'	22° 6'	25°29'	M10
T 11	13 16 41	21° 2'43	22°22'	4°12'	14°45'	11° 7'	25°39'	21°28'	1°40'	11°27'	24°24'	29°27'	28°33'	22°13'	25°33'	T 11
W12	13 20 37	22° 1'21	4°Ω32	6° 7'	15°59'	10°59'	25°48'	21°27'	1°38'	11°26'	24°25'	29°R27	28°30'	22°19'	25°37'	W12
T 13	13 24 34	22°59'57	16°55'	7°58'	17°13'	10°52'	25°58'	21°25'	1°36'	11°24'	24°27'	29°26'	28°27'	22°26'	25°41'	T 13
F 14	13 28 30	23°58'30	29°32'	9°47'	18°28'	10°46'	26° 7'	21°24'	1°33'	11°23'	24°28'	29°24'	28°24'	22°33'	25°45'	F 14
S 15	13 32 27	24°57'02	12°M23	11°32'	19°42'	10°41'	26°17'	21°23'	1°31'	11°21'	24°29'	29°20'	28°21'	22°39'	25°49'	S 15
S 16	13 36 23	25°55'32	25°29'	13°13'	20°56'	10°36'	26°26'	21°21'	1°29'	11°20'	24°30'	29°16'	28°18'	22°46'	25°52'	S 16
M17	13 40 20	26°54'00	8°A48	14°51'	22°10'	10°33'	26°36'	21°20'	1°26'	11°18'	24°31'	29°12'	28°14'	22°53'	25°56'	M17
T 18	13 44 17	27°52'27	22°20'	16°25'	23°24'	10°30'	26°46'	21°18'	1°24'	11°17'	24°33'	29° 8'	28°11'	22°59'	26° 0'	T 18
W19	13 48 13	28°50'52	6°3 4	17°54'	24°38'	10°27'	26°56'	21°16'	1°22'	11°15'	24°34'	29° 5'	28° 8'	23° 6'	26° 4'	W19
T 20	13 52 10	29°49'15	19°59'	19°19'	25°52'	10°26'	27° 6'	21°14'	1°20'	11°14'	24°35'	29° 4'	28° 5'	23°13'	26° 8'	T 20
F 21	13 56 6	0°8'47'37	4°Ω 3	20°40'	27° 6'	10°D25	27°16'	21°12'	1°18'	11°12'	24°36'	29°D 3	28° 2'	23°19'	26°12'	F 21
S 22	14 0 3	1°45'57	18°15'	21°56'	28°20'	10°25'	27°26'	21°10'	1°15'	11°10'	24°38'	29° 4'	27°58'	23°26'	26°16'	S 22
S 23	14 3 59	2°44'16	2°H33	23° 7'	29°34'	10°26'	27°36'	21° 8'	1°13'	11° 9'	24°39'	29° 5'	27°55'	23°33'	26°19'	S 23
M24	14 7 56	3°42'33	16°56'	24°14'	0°8'48	10°27'	27°47'	21° 6'	1°11'	11° 7'	24°40'	29° 7'	27°52'	23°39'	26°23'	M24
T 25	14 11 52	4°40'49	1°V18	25°15'	2° 2'	10°30'	27°57'	21° 4'	1° 9'	11° 5'	24°41'	29°R 7	27°49'	23°46'	26°27'	T 25
W26	14 15 49	5°39'03	15°37'	26°12'	3°16'	10°33'	28° 8'	21° 1'	1° 7'	11° 4'	24°43'	29° 6'	27°46'	23°53'	26°31'	W26
T 27	14 19 46	6°37'15	29°47'	27° 4'	4°30'	10°36'	28°18'	20°59'	1° 5'	11° 2'	24°44'	29° 3'	27°43'	23°59'	26°35'	T 27
F 28	14 23 42	7°35'26	13°B44	27°50'	5°44'	10°41'	28°29'	20°56'	1° 3'	11° 1'	24°45'	28°59'	27°39'	24° 6'	26°38'	F 28
S 29	14 27 39	8°33'35	27°25'	28°32'	6°58'	10°46'	28°40'	20°54'	1° 1'	10°59'	24°47'	28°53'	27°36'	24°13'	26°42'	S 29
S 30	14 31 35	9°8'31'42	10°II45	29°8 9	8°8'12	10°M52	28°II51	20°A51	1°Ω 0	10°M57	24°B48	28°H46	27°H33	24°Ω19	26°V46	S 30

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S 1	4n27	21n30	4n 3	4n49	0s40	0s22	1s26	9n37	3n13	23n19	0s 2	21s45	1n28	0s 8	0n46	13s37	1n51	6n 4	13s11	0s14	0s22	17n30	9n45	0n 6	
S 2	4 50	25 23	4 43	5 46	0 30	0n 8	1 26	9 41	3 11	23 20	0 2	21 45	1 28	0 7	0 46	13 36	1 51	6 5	13 10	0 14	0 23	17 27	9 47	0 6	
M 3	5 13	27 50	5 8	6 44	0 20	0 38	1 26	9 44	3 8	23 20	0 2	21 45	1 28	0 6	0 46	13 36	1 51	6 5	13 10	0 15	0 24	17 24	9 48	0 6	
T 4	5 36	28 45	5 16	7 41	0 10	1 7	1 25	9 47	3 6	23 21	0 2	21 45	1 28	0 5	0 46	13 35	1 51	6 6	13 10	0 15	0 26	17 21	9 49	0 6	
W 5	5 59	28 12	5 10	8 38	0n 1	1 37	1 24	9 50	3 3	23 21	0 2	21 45	1 28	0 4	0 46	13 35	1 51	6 6	13 10	0 16	0 27	17 19	9 51	0 5	
T 6	6 22	26 18	4 50	9 34	0 12	2 7	1 24	9 52	3 0	23 22	0 2	21 45	1 28	0 3	0 46	13 34	1 51	6 7	13 10	0 16	0 28	17 16	9 52	0 5	
F 7	6 45	23 16	4 18	10 30	0 23	2 37	1 23	9 54	2 58	23 22	0 2	21 45	1 29	0 2	0 46	13 34	1 51	6 7	13 9	0 15	0 29	17 13	9 53	0 5	
S 8	7 7	19 17	3 35	11 25	0 35	3 7	1 22	9 56	2 55	23 23	0 2	21 45	1 29	0 1	0 46	13 33	1 51	6 7	13 9	0 15	0 31	17 10	9 55	0 5	
S 9	7 29	14 34	2 43	12 18	0 46	3 37	1 21	9 57	2 52	23 23	0 1	21 44	1 29	0n 0	0 46	13 33	1 51	6 8	13 9	0 14	0 32	17 7	9 56	0 5	
M10	7 52	9 18	1 43	13 10	0 57	4 7	1 20	9 58	2 50	23 23	0 1	21 44	1 29	0 1	0 46	13 32	1 52	6 8	13 9	0 14	0 33	17 4	9 57	0 5	
T 11	8 14	3 38	0 39	14 1	1 8	4 36	1 19	9 59	2 47	23 24	0 1	21 44	1 29	0 2	0 46	13 32	1 52	6 9	13 9	0 13	0 35	17 1	9 59	0 5	
W12	8 36	2s14	0s28	14 49	1 18	5 6	1 18	10 0	2 44	23 24	0 1	21 44	1 29	0 3	0 46	13 31	1 52	6 9	13 8	0 13	0 36	16 59	10 0	0 5	
T 13	8 58	8 7	1 35	15 36	1 29	5 35	1 17	10 0	2 42	23 25	0 1	21 44	1 29	0 4	0 46	13 31	1 52	6 10	13 8	0 14	0 37	16 56	10 1	0 5	
F 14	9 19	13 47	2 38	16 20	1 39	6 5	1 16	10 0	2 39	23 25	0 1	21 44	1 29	0 5	0 46	13 30	1 52	6 10	13 8	0 14	0 38	16 53	10 3	0 5	
S 15	9 41	18 59	3 34	17 2	1 48	6 34	1 15	9 59	2 36	23 25	0 1	21 44	1 29	0 6	0 46	13 30	1 52	6 11	13 8	0 16	0 40	16 50	10 4	0 5	
S 16	10 2	23 23	4 21	17 42	1 57	7 3	1 14	9 59	2 34	23 26	0 1	21 43	1 29	0 7	0 46	13 30	1 52	6 11	13 8	0 17	0 41	16 47	10 5	0 5	
M17	10 23	26 39	4 53	18 19	2 5	7 32	1 13	9 58	2 31	23 26	0 1	21 43	1 29	0 7	0 46	13 29	1 52	6 11	13 8	0 19	0 42	16 44	10 7	0 5	
T 18	10 44	28 26	5 11	18 54	2 13	8 0	1 11	9 56	2 29	23 27	0 0	21 43	1 29	0 8	0 46	13 29	1 52	6 12	13 7	0 21	0 43	16 41	10 8	0 4	
W19	11 5	28 31	5 11	19 26	2 20	8 29	1 10	9 55	2 26	23 27	0 0	21 43	1 29	0 9	0 46	13 28	1 52	6 12	13 7	0 22	0 45	16 38	10 9	0 4	
T 20	11 26	26 49	4 52	19 56	2 26	8 57	1 8	9 53	2 23	23 27	0 0	21 43	1 29	0 10	0 46	13 28	1 52	6 13	13 7	0 22	0 46	16 35	10 11	0 4	
F 21	11 46	23 26	4 17	20 23	2 31	9 25	1 7	9 51	2 21	23 28	0 0	21 43	1 29	0 11	0 45	13 27	1 52	6 13	13 7	0 23	0 47	16 33	10 12	0 4	
S 22	12 7	18 38	3 25	20 47	2 35	9 53	1 5	9 48	2 18	23 28	0 0	21 42	1 29	0 12	0 45	13 27	1 52	6 13	13 7	0 22	0 48	16 30	10 13	0 4	
S 23	12 27	12 46	2 20	21 9	2 39	10 21	1 4	9 46	2 16	23 28	0n 0	21 42	1 29	0 12	0 45	13 26	1 52	6 14	13 7	0 22	0 50	16 27	10 15	0 4	
M24	12 47	6 11	1 6	21 28	2 41	10 49	1 2	9 43	2 13	23 28	0 0	21 42	1 30	0 13	0 45	13 25	1 52	6 14	13 7	0 21	0 51	16 24	10 16	0 4	
T 25	13 6	0n42	0n12	21 45	2 43	11 16	1 0	9 40	2 10	23 29	0 0	21 42	1 30	0 14	0 45	13 25	1 52	6 15	13 6	0 21	0 52	16 21	10 17	0 4	
W26	13 26	7 31	1 29	21 59	2 43	11 43	0 59	9 36	2 8	23 29	0 0	21 42	1 30	0 15	0 45	13 24	1 52	6 15	13 6	0 21	0 54	16 18	10 19	0 4	
T 27	13 45	13 54	2 39	22 11	2 43	12 10	0 57	9 32	2 5	23 29	0 0	21 41	1 30	0 16	0 45	13 24	1 52	6 16	13 6	0 23	0 55	16 15	10 20	0 4	
F 28	14 4	19 28	3 39	22 20	2 41	12 36	0 55	9 28	2 3	23 29	0 1	21 41	1 30	0 16	0 45	13 23	1 52	6 16	13 6	0 24	0 56	16 12	10 21	0 4	
S 29	14 23	23 55	4 24	22 27	2 38	13 2	0 53	9 24	2 0	23 30	0 1	21 41	1 30	0 17	0 45	13 23	1 52	6 16	13 6	0 27	0 57	16 9	10 22	0 4	
S 30	14n42	26n58	4n54	22n31	2n34	13n28	0s51	9n20	1n58	23n30	0n 1	21s41	1n30	0n18	0n45	13s22	1n52	6n17	13s 6	0s30	0s59	16n 6	10n24	0n 4	

ASTRODIENST EPHEMERIS for the year 1634  
geocentric

MAY 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 35 32	10829'47	23II45	29840	9826	10m58	29II 2	20°R48	0°R58	10°R56	24849	28°R39	27830	24826	26850	M 1	
T 2	14 39 28	11°27'51	6825	0II 6	10°40	11° 5	29°13	20846	0856	10m54	24°51	28833	27°27	24°33	26°54	T 2	
W 3	14 43 25	12°25'52	18°46	0°27	11°54	11°13	29°24	20°43	0°54	10°52	24°52	28°29	27°24	24°39	26°57	W 3	
T 4	14 47 21	13°23'52	08252	0°42	13° 8	11°21	29°35	20°40	0°52	10°51	24°53	28°26	27°20	24°46	27° 1	T 4	
F 5	14 51 18	14°21'50	12°48	0°53	14°22	11°30	29°47	20°37	0°51	10°49	24°55	28°D25	27°17	24°53	27° 5	F 5	
S 6	14 55 15	15°19'46	24°39	0°58	15°36	11°40	29°58	20°33	0°49	10°48	24°56	28°25	27°14	24°59	27° 9	S 6	
S 7	14 59 11	16°17'40	6m29	0°R58	16°50	11°50	0810	20°30	0°48	10°46	24°57	28°27	27°11	25° 6	27°12	S 7	
M 8	15 3 8	17°15'33	18°23	0°53	18° 4	12° 1	0°21	20°27	0°46	10°44	24°59	28°R28	27° 8	25°13	27°16	M 8	
T 9	15 7 4	18°13'23	0828	0°44	19°18	12°12	0°33	20°24	0°45	10°43	25° 0	28°R28	27° 4	25°19	27°20	T 9	
W10	15 11 1	19°11'12	12°45	0°31	20°31	12°24	0°44	20°20	0°43	10°41	25° 1	28°27	27° 1	25°26	27°23	W10	
T 11	15 14 57	20° 8'59	25°20	0°13	21°45	12°37	0°56	20°17	0°42	10°39	25° 3	28°24	26°58	25°33	27°27	T 11	
F 12	15 18 54	21° 6'45	8m13	29851	22°59	12°50	1° 8	20°13	0°40	10°38	25° 4	28°19	26°55	25°39	27°30	F 12	
S 13	15 22 50	22° 4'29	21°25	29°26	24°13	13° 3	1°20	20°10	0°39	10°36	25° 5	28°11	26°52	25°46	27°34	S 13	
S 14	15 26 47	23° 2'13	4855	28°58	25°27	13°18	1°32	20° 6	0°38	10°35	25° 7	28° 3	26°49	25°53	27°38	S 14	
M15	15 30 44	23°59'54	18°40	28°28	26°41	13°32	1°44	20° 2	0°37	10°33	25° 8	27°54	26°45	25°59	27°41	M15	
T 16	15 34 40	24°57'35	2838	27°56	27°54	13°47	1°56	19°59	0°35	10°32	25° 9	27°45	26°42	26° 6	27°45	T 16	
W17	15 38 37	25°55'14	16°43	27°22	29° 8	14° 3	2° 8	19°55	0°34	10°30	25°11	27°38	26°39	26°13	27°48	W17	
T 18	15 42 33	26°52'53	0852	26°48	0II22	14°19	2°20	19°51	0°33	10°28	25°12	27°33	26°36	26°19	27°52	T 18	
F 19	15 46 30	27°50'30	15° 3	26°14	1°36	14°36	2°32	19°47	0°32	10°27	25°13	27°30	26°33	26°26	27°55	F 19	
S 20	15 50 26	28°48'06	29°13	25°40	2°50	14°53	2°45	19°43	0°31	10°25	25°15	27°D30	26°29	26°33	27°59	S 20	
S 21	15 54 23	29°45'42	13820	25° 7	4° 3	15°10	2°57	19°39	0°30	10°24	25°16	27°30	26°26	26°39	28° 2	S 21	
M22	15 58 19	0II43'16	27°24	24°36	5°17	15°28	3°10	19°35	0°29	10°22	25°18	27°R31	26°23	26°46	28° 5	M22	
T 23	16 2 16	1°40'50	11823	24° 7	6°31	15°47	3°22	19°31	0°28	10°21	25°19	27°30	26°20	26°53	28° 9	T 23	
W24	16 6 13	2°38'23	25°16	23°41	7°45	16° 5	3°35	19°27	0°28	10°19	25°20	27°27	26°17	26°59	28°12	W24	
T 25	16 10 9	3°35'54	98 1	23°17	8°58	16°25	3°47	19°23	0°27	10°18	25°22	27°22	26°14	27° 6	28°16	T 25	
F 26	16 14 6	4°33'25	22°35	22°57	10°12	16°44	4° 0	19°18	0°26	10°16	25°23	27°13	26°10	27°13	28°19	F 26	
S 27	16 18 2	5°30'55	5II57	22°41	11°26	17° 4	4°12	19°14	0°26	10°15	25°24	27° 3	26° 7	27°19	28°22	S 27	
S 28	16 21 59	6°28'25	19° 3	22°28	12°39	17°25	4°25	19°10	0°25	10°14	25°26	26°52	26° 4	27°26	28°25	S 28	
M29	16 25 55	7°25'53	1853	22°20	13°53	17°46	4°38	19° 6	0°24	10°12	25°27	26°40	26° 1	27°33	28°29	M29	
T 30	16 29 52	8°23'20	14°26	22°D16	15° 7	18° 7	4°51	19° 1	0°24	10°11	25°28	26°29	25°58	27°39	28°32	T 30	
W31	16 33 48	9II20'45	26843	22817	16II21	18m29	58 3	18857	0824	10m 9	25830	26821	25855	27846	28835	W31	

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	15n 0	28n28	5n 8	22n33	2n30	13n53	0s49	9n15	1n56	23n30	0n 1	21s41	1n30	0n18	0n45	13s22	1n52	6n17	13s 6	0s32	1s 0	16n 3	10n25	0n 3					
T 2	15 18	28 26	5 7	22 33	2 23	14 18	0 47	9 10	1 53	23 30	0 1	21 40	1 30	0 19	0 45	13 21	1 52	6 18	13 6	0 35	1 1	16 0	10 26	0 3					
W 3	15 36	26 58	4 50	22 30	2 16	14 43	0 45	9 5	1 51	23 30	0 1	21 40	1 30	0 20	0 45	13 21	1 52	6 18	13 6	0 36	1 2	15 57	10 28	0 3					
T 4	15 54	24 15	4 22	22 25	2 8	15 8	0 43	9 0	1 49	23 31	0 1	21 40	1 30	0 20	0 45	13 20	1 52	6 18	13 6	0 37	1 4	15 54	10 29	0 3					
F 5	16 11	20 33	3 42	22 18	1 58	15 32	0 41	8 54	1 46	23 31	0 1	21 40	1 30	0 21	0 45	13 20	1 52	6 19	13 5	0 38	1 5	15 51	10 30	0 3					
S 6	16 28	16 3	2 53	22 9	1 48	15 55	0 39	8 48	1 44	23 31	0 1	21 39	1 30	0 22	0 45	13 19	1 52	6 19	13 5	0 38	1 6	15 48	10 31	0 3					
S 7	16 45	10 57	1 56	21 58	1 36	16 19	0 37	8 42	1 42	23 31	0 1	21 39	1 30	0 22	0 45	13 19	1 52	6 19	13 5	0 37	1 7	15 46	10 33	0 3					
M 8	17 1	5 26	0 54	21 44	1 23	16 41	0 35	8 36	1 39	23 31	0 2	21 39	1 30	0 23	0 45	13 18	1 52	6 20	13 5	0 37	1 9	15 43	10 34	0 3					
T 9	17 18	0s21	0s11	21 29	1 10	17 4	0 33	8 30	1 37	23 31	0 2	21 39	1 30	0 23	0 45	13 18	1 52	6 20	13 5	0 37	1 10	15 40	10 35	0 3					
W10	17 33	6 13	1 16	21 12	0 55	17 26	0 30	8 23	1 35	23 31	0 2	21 38	1 30	0 24	0 45	13 17	1 52	6 21	13 5	0 37	1 11	15 37	10 37	0 3					
T 11	17 49	11 59	2 19	20 53	0 40	17 47	0 28	8 16	1 33	23 31	0 2	21 38	1 30	0 25	0 45	13 17	1 52	6 21	13 5	0 38	1 12	15 34	10 38	0 3					
F 12	18 4	17 23	3 17	20 33	0 24	18 8	0 26	8 9	1 31	23 31	0 2	21 38	1 30	0 25	0 45	13 16	1 52	6 21	13 5	0 40	1 14	15 31	10 39	0 3					
S 13	18 19	22 6	4 5	20 11	0 7	18 29	0 24	8 2	1 28	23 31	0 2	21 38	1 30	0 26	0 45	13 16	1 52	6 22	13 5	0 43	1 15	15 28	10 40	0 3					
S 14	18 34	25 46	4 41	19 49	0s10	18 49	0 21	7 54	1 26	23 31	0 2	21 37	1 30	0 26	0 45	13 15	1 52	6 22	13 5	0 47	1 16	15 25	10 41	0 2					
M15	18 49	28 0	5 1	19 25	0 27	19 9	0 19	7 47	1 24	23 31	0 2	21 37	1 30	0 26	0 45	13 15	1 52	6 22	13 5	0 50	1 18	15 22	10 43	0 2					
T 16	19 3	28 32	5 4	19 1	0 45	19 28	0 17	7 39	1 22	23 31	0 2	21 37	1 30	0 27	0 45	13 15	1 52	6 23	13 5	0 54	1 19	15 19	10 44	0 2					
W17	19 17	27 13	4 48	18 36	1 2	19 46	0 14	7 31	1 20	23 31	0 2	21 36	1 30	0 27	0 45	13 14	1 52	6 23	13 5	0 57	1 20	15 16	10 45	0 2					
T 18	19 30	24 9	4 15	18 11	1 20	20 4	0 12	7 23	1 18	23 31	0 3	21 36	1 30	0 28	0 45	13 14	1 52	6 23	13 5	0 59	1 21	15 13	10 46	0 2					
F 19	19 43	19 38	3 27	17 47	1 37	20 22	0 10	7 15	1 16	23 31	0 3	21 36	1 30	0 28	0 45	13 13	1 52	6 24	13 5	1 0	1 23	15 10	10 47	0 2					
S 20	19 56	14 2	2 25	17 23	1 53	20 39	0 7	7 6	1 14	23 30	0 3	21 36	1 30	0 28	0 45	13 13	1 52	6 24	13 5	1 0	1 24	15 7	10 49	0 2					
S 21	20 9	7 43	1 15	17 0	2 9	20 55	0 5	6 58	1 12	23 30	0 3	21 35	1 30	0 29	0 45	13 12	1 52	6 24	13 5	1 0	1 25	15 4	10 50	0 2					
M22	20 21	1 3	0 1	16 38	2 24	21 11	0 2	6 49	1 10	23 30	0 3	21 35	1 30	0 29	0 44	13 12	1 52	6 25	13 5	1 0	1 26	15 1	10 51	0 2					
T 23	20 32	5n38	1n13	16 17	2 38	21 26	0 0	6 40	1 8	23 30	0 3	21 35	1 30	0 29	0 44	13 11	1 52	6 25	13 5	1 0	1 28	14 58	10 52	0 2					
W24	20 44	12 0	2 22	15 58	2 52	21 41	0n 2	6 31	1 7	23 30	0 3	21 34	1 30	0 30	0 44	13 11	1 52	6 25	13 5	1 1	1 29	14 55	10 53	0 2					
T 25	20 55	17 43	3 22	15 40	3 4	21 55	0 5	6 22	1 5	23 29	0 3	21 34	1 30	0 30	0 44	13 10	1 51	6 25	13 5	1 3	1 30	14 52	10 54	0 2					
F 26	21 6	22 28	4 9	15 24	3 15	22 9	0 7	6 13	1 3	23 29	0 3	21 34	1 30	0 30	0 44	13 10	1 51	6 26	13 5	1 6	1 31	14 49	10 55	0 2					
S 27	21 16	25 58	4 42	15 11	3 25	22 21	0 9	6 3	1 1	23 29	0 3	21 34	1 30	0 30	0 44	13 10	1 51	6 26	13 5	1 10	1 33	14 45	10 56	0 2					
S 28	21 26	28 0	4 59	14 59	3 34	22 34	0 12	5 53	0 59	23 28	0 4	21 33	1 30	0 31	0 44	13 9	1 51	6 26	13 5	1 15	1 34	14 42	10 57	0 1					
M29	21 36	28 29	5 1	14 50	3 41	22 45	0 14	5 44	0 58	23 28	0 4	21 33	1 30	0 31	0 44	13 9	1 51	6 27	13 5	1 20	1 35	14 39	10 59	0 1					
T 30	21 45	27 28	4 48	14 43	3 47	22 56	0 17	5 34	0 56	23 28	0 4	21 33	1 30	0 31	0 44	13 8	1 51	6 27	13 5	1 24	1 36	14 36	11 0	0 1					
W31	21n54	25n 7	4n21	14n38	3s53	23n 6	0n19	5n24	0n54	23n27	0n 4	21s32	1n30	0n31	0n44	13s 8	1n51	6n27	13s 5	1s27	1s38	14n33	11n 1	0n 1					



# ASTRODIENST EPHEMERIS for the year 1634

## geocentric

JUNE 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 45	10 <sup>II</sup> 18'10	8 <sup>II</sup> 48	22 <sup>II</sup> 21	17 <sup>II</sup> 34	18 <sup>II</sup> 51	5 <sup>II</sup> 16	18°R53	0°R23	10°R 8	25 <sup>II</sup> 31	26°R14	25 <sup>II</sup> 51	27 <sup>II</sup> 53	28 <sup>II</sup> 38	T 1
F 2	16 41 42	11°15'34	20°42	22°31	18°48	19°13	5°29	18°48	0°23	10 <sup>II</sup> 7	25°32	26°R 10	25°48	27°59	28°41	F 2
S 3	16 45 38	12°12'56	2 <sup>II</sup> 32	22°45	20° 2	19°36	5°42	18°44	0°23	10° 5	25°34	26° 8	25°45	28° 6	28°44	S 3
S 4	16 49 35	13°10'17	14°21	23° 3	21°15	19°59	5°55	18°40	0°22	10° 4	25°35	26°D 8	25°42	28°13	28°47	S 4
M 5	16 53 31	14° 7'38	26°16	23°26	22°29	20°23	6° 8	18°35	0°22	10° 3	25°36	26°R 8	25°39	28°19	28°50	M 5
T 6	16 57 28	15° 4'57	8 <sup>II</sup> 22	23°53	23°43	20°46	6°21	18°31	0°22	10° 1	25°37	26° 8	25°35	28°26	28°53	T 6
W 7	17 1 24	16° 2'15	20°43	24°25	24°56	21°10	6°34	18°26	0°22	10° 0	25°39	26° 6	25°32	28°33	28°56	W 7
T 8	17 5 21	16°59'33	3 <sup>II</sup> 24	25° 0	26°10	21°35	6°47	18°22	0°D22	9°59	25°40	26° 1	25°29	28°39	28°59	T 8
F 9	17 9 17	17°56'49	16°28	25°40	27°24	22° 0	7° 1	18°18	0°22	9°58	25°41	25°54	25°26	28°46	29° 2	F 9
S 10	17 13 14	18°54'05	29°56	26°24	28°37	22°25	7°14	18°13	0°22	9°57	25°43	25°45	25°23	28°53	29° 4	S 10
S 11	17 17 11	19°51'20	13 <sup>II</sup> 46	27°12	29°51	22°50	7°27	18° 9	0°22	9°55	25°44	25°34	25°20	28°59	29° 7	S 11
M12	17 21 7	20°48'35	27°56	28° 4	1 <sup>II</sup> 4	23°16	7°40	18° 4	0°23	9°54	25°45	25°23	25°16	29° 6	29°10	M12
T 13	17 25 4	21°45'49	12 <sup>II</sup> 20	29° 0	2°18	23°42	7°53	18° 0	0°23	9°53	25°46	25°12	25°13	29°13	29°13	T 13
W14	17 29 0	22°43'03	26°51	0 <sup>II</sup> 0	3°32	24° 8	8° 7	17°56	0°23	9°52	25°48	25° 2	25°10	29°19	29°15	W14
T 15	17 32 57	23°40'16	11 <sup>II</sup> 22	1° 3	4°45	24°34	8°20	17°51	0°23	9°51	25°49	24°56	25° 7	29°26	29°18	T 15
F 16	17 36 53	24°37'30	25°50	2°11	5°59	25° 1	8°33	17°47	0°24	9°50	25°50	24°52	25° 4	29°33	29°20	F 16
S 17	17 40 50	25°34'43	10 <sup>II</sup> 8	3°21	7°12	25°28	8°47	17°42	0°24	9°49	25°51	24°50	25° 1	29°39	29°23	S 17
S 18	17 44 47	26°31'56	24°16	4°36	8°26	25°55	9° 0	17°38	0°25	9°48	25°52	24°50	24°57	29°46	29°25	S 18
M19	17 48 43	27°29'08	8°Y13	5°54	9°40	26°23	9°13	17°34	0°25	9°47	25°54	24°50	24°54	29°53	29°28	M19
T 20	17 52 40	28°26'21	21°58	7°15	10°53	26°51	9°27	17°29	0°26	9°46	25°55	24°48	24°51	29°59	29°30	T 20
W21	17 56 36	29°23'34	5 <sup>II</sup> 32	8°40	12° 7	27°19	9°40	17°25	0°27	9°45	25°56	24°45	24°48	0 <sup>II</sup> 6	29°32	W21
T 22	18 0 33	0 <sup>II</sup> 20'47	18°54	10° 8	13°20	27°47	9°53	17°21	0°27	9°44	25°57	24°39	24°45	0°13	29°35	T 22
F 23	18 4 29	1°18'00	2 <sup>II</sup> 6	11°40	14°34	28°16	10° 7	17°17	0°28	9°43	25°58	24°30	24°41	0°19	29°37	F 23
S 24	18 8 26	2°15'13	15° 5	13°15	15°47	28°45	10°20	17°12	0°29	9°42	25°59	24°19	24°38	0°26	29°39	S 24
S 25	18 12 22	3°12'26	27°53	14°53	17° 1	29°14	10°34	17° 8	0°30	9°42	26° 1	24° 6	24°35	0°33	29°41	S 25
M26	18 16 19	4° 9'39	10 <sup>II</sup> 27	16°35	18°14	29°43	10°47	17° 4	0°31	9°41	26° 2	23°53	24°32	0°39	29°44	M26
T 27	18 20 16	5° 6'51	22°48	18°20	19°28	0 <sup>II</sup> 13	11° 1	17° 0	0°32	9°40	26° 3	23°41	24°29	0°46	29°46	T 27
W28	18 24 12	6° 4'04	4 <sup>II</sup> 58	20° 7	20°42	0°42	11°14	16°56	0°33	9°39	26° 4	23°31	24°26	0°53	29°48	W28
T 29	18 28 9	7° 1'16	16°57	21°58	21°55	1°12	11°28	16°52	0°34	9°39	26° 5	23°24	24°22	0°59	29°50	T 29
F 30	18 32 5	7 <sup>II</sup> 58'29	28 <sup>II</sup> 49	23 <sup>II</sup> 52	23 <sup>II</sup> 9	1 <sup>II</sup> 43	11 <sup>II</sup> 41	16 <sup>II</sup> 48	0 <sup>II</sup> 35	9 <sup>II</sup> 38	26 <sup>II</sup> 6	23 <sup>II</sup> 19	24 <sup>II</sup> 19	1 <sup>II</sup> 6	29 <sup>II</sup> 52	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	22n 2	21n41	3n43	14n35	3s56	23n16	0n21	5n13	0n52	23n27	0n 4	21s32	1n30	0n31	0n44	13s 8
F 2	22 11	17 24	2 56	14 35	3 59	23 25	0 24	5 3	0 51	23 26	0 4	21 32	1 30	0 31	0 44	13 7
S 3	22 18	12 29	2 2	14 37	4 1	23 33	0 26	4 53	0 49	23 26	0 4	21 31	1 30	0 31	0 44	13 7
S 4	22 26	7 7	1 2	14 41	4 2	23 40	0 28	4 42	0 47	23 26	0 4	21 31	1 30	0 31	0 44	13 6
M 5	22 33	1 28	0s 1	14 47	4 1	23 47	0 31	4 31	0 46	23 25	0 4	21 31	1 29	0 31	0 44	13 6
T 6	22 39	4s19	1 4	14 55	4 0	23 53	0 33	4 20	0 44	23 25	0 4	21 30	1 29	0 31	0 44	13 6
W 7	22 45	10 3	2 6	15 4	3 57	23 59	0 35	4 9	0 42	23 24	0 4	21 30	1 29	0 31	0 44	13 5
T 8	22 51	15 33	3 4	15 16	3 54	24 3	0 37	3 58	0 41	23 23	0 5	21 30	1 29	0 31	0 44	13 5
F 9	22 56	20 31	3 53	15 29	3 50	24 7	0 40	3 47	0 39	23 23	0 5	21 29	1 29	0 31	0 44	13 5
S 10	23 1	24 35	4 31	15 44	3 45	24 11	0 42	3 36	0 38	23 22	0 5	21 29	1 29	0 31	0 44	13 4
S 11	23 6	27 22	4 54	16 1	3 39	24 13	0 44	3 24	0 36	23 22	0 5	21 29	1 29	0 31	0 44	13 4
M12	23 10	28 29	5 0	16 19	3 33	24 15	0 46	3 13	0 35	23 21	0 5	21 29	1 29	0 31	0 44	13 4
T 13	23 14	27 41	4 47	16 38	3 26	24 16	0 48	3 1	0 33	23 20	0 5	21 28	1 29	0 31	0 44	13 3
W14	23 17	25 1	4 16	16 58	3 18	24 17	0 50	2 49	0 32	23 20	0 5	21 28	1 29	0 31	0 43	13 3
T 15	23 20	20 44	3 28	17 19	3 10	24 16	0 52	2 37	0 30	23 19	0 5	21 28	1 29	0 31	0 43	13 3
F 16	23 23	15 14	2 27	17 41	3 1	24 15	0 54	2 26	0 29	23 18	0 5	21 27	1 29	0 30	0 43	13 2
S 17	23 25	8 58	1 17	18 4	2 51	24 14	0 56	2 13	0 27	23 17	0 5	21 27	1 29	0 30	0 43	13 2
S 18	23 27	2 19	0 3	18 27	2 42	24 11	0 58	2 1	0 26	23 16	0 5	21 27	1 28	0 30	0 43	13 2
M19	23 28	4n20	1n10	18 51	2 31	24 8	1 0	1 49	0 25	23 16	0 6	21 26	1 28	0 30	0 43	13 2
T 20	23 29	10 43	2 18	19 15	2 21	24 4	1 2	1 37	0 23	23 15	0 6	21 26	1 28	0 29	0 43	13 1
W21	23 29	16 29	3 17	19 40	2 9	24 0	1 4	1 24	0 22	23 14	0 6	21 26	1 28	0 29	0 43	13 1
T 22	23 29	21 24	4 5	20 4	1 58	23 54	1 6	1 12	0 21	23 13	0 6	21 26	1 28	0 29	0 43	13 1
F 23	23 29	25 10	4 38	20 28	1 46	23 48	1 7	0 59	0 19	23 12	0 6	21 25	1 28	0 28	0 43	13 1
S 24	23 28	27 34	4 57	20 52	1 35	23 42	1 9	0 46	0 18	23 11	0 6	21 25	1 28	0 28	0 43	13 0
S 25	23 27	28 28	5 0	21 16	1 22	23 34	1 11	0 34	0 17	23 10	0 6	21 25	1 28	0 28	0 43	13 0
M26	23 25	27 52	4 48	21 39	1 10	23 26	1 12	0 21	0 15	23 9	0 6	21 24	1 28	0 27	0 43	13 0
T 27	23 23	25 53	4 23	22 1	0 58	23 17	1 14	0 8	0 14	23 8	0 6	21 24	1 27	0 27	0 43	13 0
W28	23 21	22 43	3 46	22 21	0 46	23 8	1 15	0s 5	0 13	23 7	0 6	21 24	1 27	0 26	0 43	13 0
T 29	23 18	18 39	3 0	22 41	0 34	22 58	1 17	0 18	0 12	23 6	0 7	21 24	1 27	0 26	0 43	12 59
F 30	23n15	13n53	2n 6	22n59	0s22	22n47	1n18	0s31	0n10	23n 5	0n 7	21s23	1n27	0n25	0n43	12s59

Julian Day Number = 2318017.5, Delta T = 54.52 sec  
 Ecliptic obliquity = 23°29'21", Nutation = 0°00'01", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 19°38'16", Lahiri = 18°45'16"Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1634

## geocentric

JULY 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 36 2	8♂55'40	10♂36	25♂48	24♂22	2♂13	11♂55	16°R44	0♂36	9°R37	26♂ 7	23°R16	24♂16	1♂13	29♂53	S 1
S 2	18 39 58	9°52'52	22°24	27°46	25°36	2°44	12° 8	16♂40	0°38	9♂37	26° 8	23°D16	24°13	1°19	29°55	S 2
M 3	18 43 55	10°50'04	4♂18	29°47	26°49	3°15	12°22	16°36	0°39	9°36	26° 9	23♂16	24°10	1°26	29°57	M 3
T 4	18 47 51	11°47'15	16°23	19♂50	28° 3	3°46	12°35	16°32	0°40	9°35	26°10	23°R16	24° 7	1°32	29°59	T 4
W 5	18 51 48	12°44'27	28°43	3°55	29°16	4°17	12°49	16°29	0°42	9°35	26°11	23°15	24° 3	1°39	0♂ 0	W 5
T 6	18 55 45	13°41'38	11♂25	6° 1	0♂30	4°48	13° 2	16°25	0°43	9°34	26°12	23°12	24° 0	1°46	0° 2	T 6
F 7	18 59 41	14°38'50	24°32	8° 8	1°43	5°20	13°16	16°21	0°45	9°34	26°13	23° 6	23°57	1°52	0° 4	F 7
S 8	19 3 38	15°36'01	8♂ 7	10°16	2°56	5°52	13°29	16°18	0°46	9°33	26°14	22°59	23°54	1°59	0° 5	S 8
S 9	19 7 34	16°33'13	22° 8	12°25	4°10	6°24	13°43	16°14	0°48	9°33	26°15	22°50	23°51	2° 6	0° 7	S 9
M10	19 11 31	17°30'25	6♂33	14°34	5°23	6°56	13°56	16°11	0°49	9°33	26°16	22°40	23°47	2°12	0° 8	M10
T 11	19 15 27	18°27'37	21°16	16°42	6°37	7°29	14°10	16° 7	0°51	9°32	26°17	22°30	23°44	2°19	0°10	T 11
W12	19 19 24	19°24'50	6♂10	18°51	7°50	8° 1	14°23	16° 4	0°53	9°32	26°18	22°22	23°41	2°26	0°11	W12
T 13	19 23 20	20°22'03	21° 5	20°59	9° 4	8°34	14°37	16° 1	0°55	9°32	26°19	22°17	23°38	2°32	0°12	T 13
F 14	19 27 17	21°19'17	5♂53	23° 6	10°17	9° 7	14°50	15°58	0°56	9°31	26°19	22°14	23°35	2°39	0°13	F 14
S 15	19 31 14	22°16'31	20°29	25°13	11°30	9°40	15° 3	15°55	0°58	9°31	26°20	22°D13	23°32	2°46	0°14	S 15
S 16	19 35 10	23°13'46	4♂48	27°18	12°44	10°13	15°17	15°51	1° 0	9°31	26°21	22°13	23°28	2°52	0°16	S 16
M17	19 39 7	24°11'02	18°48	29°22	13°57	10°47	15°30	15°48	1° 2	9°31	26°22	22°R14	23°25	2°59	0°17	M17
T 18	19 43 3	25° 8'19	2♂30	1♂25	15°10	11°20	15°44	15°46	1° 4	9°31	26°23	22°14	23°22	3° 6	0°18	T 18
W19	19 47 0	26° 5'37	15°54	3°26	16°24	11°54	15°57	15°43	1° 6	9°31	26°23	22°12	23°19	3°12	0°19	W19
T 20	19 50 56	27° 2'56	29° 3	5°26	17°37	12°28	16°10	15°40	1° 8	9°31	26°24	22° 8	23°16	3°19	0°19	T 20
F 21	19 54 53	28° 0'16	11♂57	7°24	18°50	13° 2	16°24	15°37	1°10	9°31	26°25	22° 2	23°13	3°26	0°20	F 21
S 22	19 58 50	28°57'37	24°38	9°21	20° 4	13°37	16°37	15°35	1°13	9°D30	26°26	21°53	23° 9	3°32	0°21	S 22
S 23	20 2 46	29°54'59	7♂ 7	11°16	21°17	14°11	16°50	15°32	1°15	9°31	26°26	21°44	23° 6	3°39	0°22	S 23
M24	20 6 43	0♂52'21	19°26	13° 9	22°30	14°46	17° 4	15°30	1°17	9°31	26°27	21°35	23° 3	3°46	0°22	M24
T 25	20 10 39	1°49'45	1♂34	15° 1	23°44	15°20	17°17	15°27	1°19	9°31	26°28	21°26	23° 0	3°52	0°23	T 25
W26	20 14 36	2°47'09	13°34	16°51	24°57	15°55	17°30	15°25	1°22	9°31	26°28	21°19	22°57	3°59	0°24	W26
T 27	20 18 32	3°44'34	25°27	18°39	26°10	16°31	17°43	15°23	1°24	9°31	26°29	21°14	22°53	4° 6	0°24	T 27
F 28	20 22 29	4°41'59	7♂16	20°26	27°23	17° 6	17°57	15°21	1°27	9°31	26°30	21°10	22°50	4°12	0°25	F 28
S 29	20 26 25	5°39'26	19° 2	22°11	28°37	17°41	18°10	15°19	1°29	9°31	26°30	21°D 9	22°47	4°19	0°25	S 29
S 30	20 30 22	6°36'53	0♂50	23°54	29°50	18°17	18°23	15°17	1°32	9°32	26°31	21°10	22°44	4°26	0°25	S 30
M31	20 34 19	7♂34'21	12♂43	25♂36	1♂ 3	18♂52	18♂36	15♂15	1♂34	9♂32	26♂31	21♂11	22♂41	4♂32	0♂26	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	23n11	8n38	1n 7	23n15	0s10	22n35	1n19	0s45	0n 9	23n 4	0n 7	21s23	1n27	0n25	0n43	12s59
S 2	23 7 3 5	0 5 23 30	0n 2	22 23	1 21	0 58	0 8 23 3	0 7 21 23	1 27	0 24	0 43 12 59	1 50	6 33 13 8	2 41	2 18	12 54
M 3	23 3 2s36	0s58 23 42	0 13	22 10	1 22	1 11	0 7 23 2	0 7 21 23	1 27	0 24	0 43 12 59	1 50	6 33 13 8	2 41	2 19	12 51
T 4	22 58 8 18	2 0 23 52	0 24	21 57	1 23	1 25	0 5 23 0	0 7 21 22	1 27	0 23	0 43 12 59	1 50	6 33 13 8	2 41	2 21	12 48
W 5	22 53 13 48	2 57 24 0	0 34	21 43	1 24	1 38	0 4 22 59	0 7 21 22	1 26	0 22	0 43 12 59	1 50	6 33 13 8	2 41	2 22	12 45
T 6	22 47 18 53	3 47 24 5	0 44	21 28	1 25	1 52	0 3 22 58	0 7 21 22	1 26	0 22	0 43 12 59	1 50	6 33 13 9	2 42	2 23	12 41
F 7	22 41 23 15	4 27 24 7	0 53	21 13	1 26	2 6	0 2 22 57	0 7 21 22	1 26	0 21	0 43 12 58	1 50	6 33 13 9	2 45	2 24	12 38
S 8	22 34 26 32	4 53 24 7	1 2	20 57	1 27	2 19	0 1 22 56	0 7 21 21	1 26	0 21	0 42 12 58	1 50	6 33 13 9	2 48	2 26	12 35
S 9	22 28 28 18	5 3 24 4	1 10	20 41	1 28	2 33	0s 0 22 54	0 7 21 21	1 26	0 20	0 42 12 58	1 50	6 33 13 9	2 51	2 27	12 32
M10	22 20 28 14	4 55 23 58	1 17	20 24	1 29	2 47	0 1 22 53	0 8 21 21	1 26	0 19	0 42 12 58	1 49	6 33 13 9	2 55	2 28	12 29
T 11	22 13 26 11	4 26 23 49	1 23	20 6	1 29	3 1	0 3 22 52	0 8 21 21	1 25	0 19	0 42 12 58	1 49	6 33 13 9	2 59	2 29	12 26
W12	22 5 22 19	3 40 23 38	1 29	19 48	1 30	3 15	0 4 22 50	0 8 21 21	1 25	0 18	0 42 12 58	1 49	6 33 13 10	3 2	2 31	12 22
T 13	21 56 17 0	2 38 23 24	1 34	19 29	1 30	3 29	0 5 22 49	0 8 21 20	1 25	0 17	0 42 12 58	1 49	6 33 13 10	3 4	2 32	12 19
F 14	21 48 10 42	1 26 23 7	1 38	19 10	1 31	3 43	0 6 22 48	0 8 21 20	1 25	0 16	0 42 12 58	1 49	6 33 13 10	3 5	2 33	12 16
S 15	21 39 3 55	0 9 22 48	1 42	18 50	1 31	3 57	0 7 22 46	0 8 21 20	1 25	0 15	0 42 12 58	1 49	6 33 13 10	3 6	2 35	12 13
S 16	21 29 2n56	1n 7 22 27	1 44	18 30	1 32	4 11	0 8 22 45	0 8 21 20	1 25	0 15	0 42 12 58	1 49	6 33 13 10	3 6	2 36	12 10
M17	21 19 9 30	2 17 22 4	1 46	18 9	1 32	4 25	0 9 22 43	0 8 21 20	1 25	0 14	0 42 12 58	1 49	6 33 13 11	3 5	2 37	12 7
T 18	21 9 15 28	3 18 21 38	1 48	17 47	1 32	4 39	0 10 22 42	0 8 21 20	1 24	0 13	0 42 12 58	1 49	6 33 13 11	3 5	2 38	12 3
W19	20 58 20 34	4 7 21 11	1 48	17 26	1 33	4 53	0 11 22 40	0 8 21 20	1 24	0 12	0 42 12 58	1 49	6 33 13 11	3 6	2 40	12 0
T 20	20 48 24 34	4 42 20 42	1 48	17 3	1 33	5 7	0 12 22 39	0 9 21 19	1 24	0 11	0 42 12 58	1 49	6 33 13 11	3 8	2 41	11 57
F 21	20 36 27 15	5 1 20 11	1 47	16 41	1 33	5 22	0 13 22 37	0 9 21 19	1 24	0 10	0 42 12 58	1 49	6 33 13 11	3 10	2 42	11 54
S 22	20 25 28 28	5 6 19 39	1 46	16 17	1 33	5 36	0 14 22 36	0 9 21 19	1 24	0 10	0 42 12 58	1 49	6 33 13 12	3 13	2 43	11 51
S 23	20 13 28 13	4 55 19 6	1 44	15 54	1 33	5 50	0 15 22 34	0 9 21 19	1 23	0 9	0 42 12 58	1 49	6 33 13 12	3 17	2 45	11 47
M24	20 0 26 33	4 31 18 31	1 41	15 30	1 32	6 4	0 16 22 33	0 9 21 19	1 23	0 8	0 42 12 58	1 49	6 33 13 12	3 21	2 46	11 44
T 25	19 48 23 40	3 55 17 56	1 38	15 5	1 32	6 19	0 17 22 31	0 9 21 19	1 23	0 7	0 42 12 58	1 49	6 33 13 12	3 24	2 47	11 41
W26	19 35 19 48	3 9 17 19	1 35	14 40	1 32	6 33	0 18 22 30	0 9 21 19	1 23	0 6	0 42 12 59	1 48	6 33 13 12	3 27	2 48	11 38
T 27	19 21 15 10	2 14 16 42	1 30	14 15	1 31	6 48	0 19 22 28	0 9 21 19	1 23	0 5	0 42 12 59	1 48	6 32 13 13	3 29	2 50	11 35
F 28	19 8 10 1	1 15 16 4	1 26	13 50	1 31	7 2	0 20 22 26	0 9 21 19	1 23	0 4	0 42 12 59	1 48	6 32 13 13	3 30	2 51	11 31
S 29	18 54 4 32	0 12 15 25	1 21	13 24	1 30	7 16	0 21 22 25	0 9 21 19	1 22	0 3	0 42 12 59	1 48	6 32 13 13	3 31	2 52	11 28
S 30	18 39 1s 8	0s52 14 46	1 15	12 57	1 30	7 31	0 22 22 23	0 10 21 19	1 22	0 2	0 42 12 59	1 48	6 32 13 13	3 31	2 53	11 25
M31	18n25	6s47	1s54	14n 6	1n10	12n31	1n29	7s45	0s23	22n21	0n10	21s19	1n22	0n 1	0n42	12s59

Julian Day Number = 2318047.5, Delta T = 54.46 sec  
 Ecliptic obliquity = 23°29'21, Nutation = 0°00'02, out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 19°38'20, Lahiri = 18°45'20Greg. Calendar



# ASTRODIENST EPHEMERIS for the year 1634

## geocentric

AUGUST 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 15	8♂31'50	24♂47	27♂16	2♂16	19♂28	18♂49	15°R13	1♂37	9♂32	26♂32	21♂12	22♂38	4♂39	0♂26	T 1
W 2	20 42 12	9°29'20	7♂7	28°55	3°30	20° 4	19° 2	15♂11	1°39	9°33	26°32	21°R13	22°34	4°45	0°26	W 2
T 3	20 46 8	10°26'50	19°46	0♂32	4°43	20°40	19°15	15°10	1°42	9°33	26°33	21°13	22°31	4°52	0°26	T 3
F 4	20 50 5	11°24'21	2♂50	2° 8	5°56	21°17	19°28	15° 8	1°45	9°33	26°33	21°11	22°28	4°59	0°R26	F 4
S 5	20 54 1	12°21'54	16°22	3°41	7° 9	21°53	19°41	15° 7	1°48	9°34	26°34	21° 7	22°25	5° 5	0°26	S 5
S 6	20 57 58	13°19'27	0♂22	5°14	8°22	22°30	19°54	15° 5	1°50	9°34	26°34	21° 2	22°22	5°12	0°26	S 6
M 7	21 1 54	14°17'01	14°49	6°44	9°35	23° 6	20° 7	15° 4	1°53	9°35	26°35	20°57	22°19	5°19	0°26	M 7
T 8	21 5 51	15°14'36	29°39	8°13	10°48	23°43	20°20	15° 3	1°56	9°35	26°35	20°52	22°15	5°25	0°26	T 8
W 9	21 9 48	16°12'12	14♂44	9°41	12° 1	24°20	20°32	15° 2	1°59	9°36	26°35	20°48	22°12	5°32	0°25	W 9
T 10	21 13 44	17° 9'50	29°54	11° 6	13°14	24°57	20°45	15° 1	2° 2	9°37	26°36	20°45	22° 9	5°39	0°25	T 10
F 11	21 17 41	18° 7'29	15♂0	12°30	14°27	25°34	20°58	15° 0	2° 5	9°37	26°36	20°D43	22° 6	5°45	0°25	F 11
S 12	21 21 37	19° 5'09	29°54	13°53	15°40	26°12	21°10	14°59	2° 8	9°38	26°36	20°43	22° 3	5°52	0°24	S 12
S 13	21 25 34	20° 2'50	14°Y29	15°14	16°53	26°49	21°23	14°59	2°11	9°39	26°37	20°45	21°59	5°59	0°24	S 13
M14	21 29 30	21° 0'34	28°41	16°32	18° 6	27°27	21°36	14°58	2°14	9°39	26°37	20°46	21°56	6° 5	0°23	M14
T 15	21 33 27	21°58'19	12♂29	17°50	19°19	28° 4	21°48	14°58	2°17	9°40	26°37	20°47	21°53	6°12	0°23	T 15
W16	21 37 23	22°56'06	25°54	19° 5	20°32	28°42	22° 1	14°57	2°20	9°41	26°38	20°R47	21°50	6°19	0°22	W16
T 17	21 41 20	23°53'54	8♂58	20°18	21°45	29°20	22°13	14°57	2°23	9°42	26°38	20°47	21°47	6°25	0°21	T 17
F 18	21 45 17	24°51'45	21°43	21°30	22°58	29°58	22°25	14°57	2°26	9°42	26°38	20°44	21°44	6°32	0°21	F 18
S 19	21 49 13	25°49'37	4♂12	22°39	24°11	0♂36	22°38	14°57	2°29	9°43	26°38	20°41	21°40	6°39	0°20	S 19
S 20	21 53 10	26°47'31	16°29	23°46	25°24	1°15	22°50	14°D57	2°33	9°44	26°38	20°38	21°37	6°45	0°19	S 20
M21	21 57 6	27°45'26	28°35	24°51	26°36	1°53	23° 2	14°57	2°36	9°45	26°38	20°34	21°34	6°52	0°18	M21
T 22	22 1 3	28°43'23	10♂33	25°53	27°49	2°32	23°14	14°57	2°39	9°46	26°39	20°30	21°31	6°59	0°17	T 22
W23	22 4 59	29°41'22	22°25	26°53	29° 2	3°10	23°26	14°57	2°42	9°47	26°39	20°27	21°28	7° 5	0°16	W23
T 24	22 8 56	0♂39'22	4♂14	27°51	0♂15	3°49	23°38	14°58	2°46	9°48	26°39	20°26	21°25	7°12	0°15	T 24
F 25	22 12 52	1°37'24	16° 1	28°45	1°27	4°28	23°50	14°58	2°49	9°49	26°39	20°D25	21°21	7°18	0°14	F 25
S 26	22 16 49	2°35'28	27°48	29°37	2°40	5° 7	24° 2	14°59	2°53	9°50	26°39	20°25	21°18	7°25	0°13	S 26
S 27	22 20 46	3°33'33	9♂39	0♂25	3°53	5°46	24°14	14°59	2°56	9°52	26°R39	20°26	21°15	7°32	0°11	S 27
M28	22 24 42	4°31'39	21°37	1°10	5° 6	6°25	24°26	15° 0	2°59	9°53	26°39	20°27	21°12	7°38	0°10	M28
T 29	22 28 39	5°29'47	3♂44	1°52	6°18	7° 5	24°37	15° 1	3° 3	9°54	26°39	20°28	21° 9	7°45	0° 9	T 29
W30	22 32 35	6°27'57	16° 5	2°30	7°31	7°44	24°49	15° 2	3° 6	9°55	26°39	20°29	21° 5	7°52	0° 7	W30
T 31	22 36 32	7♂26'08	28♂44	3♂3	8♂43	8♂24	25♂0	15♂3	3♂10	9♂56	26♂39	20♂30	21♂2	7♂58	0♂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
T 1	18n10	12s17	2s52	13n26	1n 4	12n 4	1n28	8s 0	0s23	22n20	0n10	21s19	1n22	0s 0	0n42	12s59	1n48	6n32	13s14	3s30	2s56	11n18	11n35	0s 4					
W 2	17 55	17 26	3 44	12 46	0 57	11 36	1 28	8 14	0 24	22 18	0 10	21 19	1 22	0 1	0 42	12 59	1 48	6 32	13 14	3 29	2 57	11 15	11 35	0 4					
T 3	17 39	21 58	4 26	12 5	0 50	11 9	1 27	8 29	0 25	22 16	0 10	21 19	1 21	0 3	0 42	13 0	1 48	6 32	13 14	3 29	2 58	11 12	11 35	0 4					
F 4	17 24	25 36	4 55	11 25	0 43	10 41	1 26	8 43	0 26	22 14	0 10	21 19	1 21	0 4	0 41	13 0	1 48	6 32	13 14	3 30	3 0	11 9	11 35	0 4					
S 5	17 8	27 56	5 10	10 44	0 36	10 13	1 25	8 58	0 27	22 13	0 10	21 19	1 21	0 5	0 41	13 0	1 48	6 31	13 15	3 32	3 1	11 6	11 35	0 4					
S 6	16 51	28 36	5 7	10 3	0 28	9 44	1 24	9 12	0 28	22 11	0 10	21 19	1 21	0 6	0 41	13 0	1 48	6 31	13 15	3 34	3 2	11 2	11 35	0 4					
M 7	16 35	27 23	4 45	9 22	0 20	9 16	1 22	9 27	0 29	22 9	0 10	21 19	1 21	0 7	0 41	13 0	1 48	6 31	13 15	3 36	3 3	10 59	11 35	0 4					
T 8	16 18	24 14	4 3	8 41	0 12	8 47	1 21	9 41	0 30	22 7	0 11	21 19	1 21	0 8	0 41	13 1	1 48	6 31	13 15	3 38	3 5	10 56	11 35	0 4					
W 9	16 1	19 23	3 4	8 1	0 3	8 18	1 20	9 55	0 30	22 5	0 11	21 19	1 20	0 9	0 41	13 1	1 48	6 31	13 16	3 39	3 6	10 53	11 34	0 5					
T 10	15 43	13 16	1 51	7 20	0s 5	7 48	1 18	10 10	0 31	22 4	0 11	21 19	1 20	0 11	0 41	13 1	1 48	6 31	13 16	3 41	3 7	10 49	11 34	0 5					
F 11	15 26	6 24	0 31	6 40	0 14	7 19	1 17	10 24	0 32	22 2	0 11	21 19	1 20	0 12	0 41	13 1	1 48	6 31	13 16	3 41	3 8	10 46	11 34	0 5					
S 12	15 8	0n44	0n50	6 0	0 23	6 49	1 15	10 39	0 33	22 0	0 11	21 19	1 20	0 13	0 41	13 2	1 47	6 30	13 16	3 41	3 10	10 43	11 34	0 5					
S 13	14 50	7 40	2 7	5 20	0 32	6 19	1 14	10 53	0 34	21 58	0 11	21 19	1 20	0 14	0 41	13 2	1 47	6 30	13 17	3 41	3 11	10 40	11 33	0 5					
M14	14 31	14 2	3 13	4 41	0 41	5 49	1 12	11 7	0 34	21 56	0 11	21 20	1 19	0 16	0 41	13 2	1 47	6 30	13 17	3 40	3 12	10 36	11 33	0 5					
T 15	14 13	19 32	4 7	4 3	0 51	5 19	1 10	11 21	0 35	21 54	0 11	21 20	1 19	0 17	0 41	13 3	1 47	6 30	13 17	3 40	3 14	10 33	11 33	0 5					
W16	13 54	23 53	4 45	3 24	1 0	4 49	1 9	11 36	0 36	21 52	0 11	21 20	1 19	0 18	0 41	13 3	1 47	6 30	13 17	3 39	3 15	10 30	11 33	0 5					
T 17	13 35	26 54	5 7	2 47	1 10	4 18	1 7	11 50	0 37	21 51	0 12	21 20	1 19	0 19	0 41	13 3	1 47	6 29	13 18	3 40	3 16	10 27	11 32	0 5					
F 18	13 16	28 27	5 14	2 10	1 19	3 47	1 5	12 4	0 37	21 49	0 12	21 20	1 19	0 21	0 41	13 4	1 47	6 29	13 18	3 41	3 17	10 23	11 32	0 5					
S 19	12 56	28 31	5 5	1 34	1 29	3 17	1 3	12 18	0 38	21 47	0 12	21 20	1 18	0 22	0 41	13 4	1 47	6 29	13 18	3 42	3 19	10 20	11 32	0 5					
S 20	12 37	27 9	4 43	0 58	1 39	2 46	1 1	12 32	0 39	21 45	0 12	21 21	1 18	0 23	0 41	13 4	1 47	6 29	13 18	3 43	3 20	10 17	11 31	0 6					
M21	12 17	24 32	4 8	0 24	1 48	2 15	0 59	12 46	0 40	21 43	0 12	21 21	1 18	0 25	0 41	13 5	1 47	6 29	13 19	3 45	3 21	10 14	11 31	0 6					
T 22	11 57	20 52	3 22	0s10	1 58	1 44	0 56	13 0	0 40	21 41	0 12	21 21	1 18	0 26	0 41	13 5	1 47	6 28	13 19	3 46	3 22	10 10	11 30	0 6					
W23	11 36	16 24	2 28	0 43	2 8	1 13	0 54	13 14	0 41	21 39	0 12	21 21	1 18	0 27	0 41	13 5	1 47	6 28	13 19	3 47	3 24	10 7	11 30	0 6					
T 24	11 16	11 21	1 28	1 14	2 17	0 42	0 52	13 28	0 42	21 37	0 12	21 21	1 17	0 29	0 41	13 6	1 47	6 28	13 19	3 48	3 25	10 4	11 29	0 6					
F 25	10 55	5 54	0 24	1 45	2 27	0 11	0 50	13 42	0 43	21 35	0 12	21 22	1 17	0 30	0 41	13 6	1 47	6 28	13 20	3 48	3 26	10 0	11 29	0 6					
S 26	10 34	0 15	0s41	2 14	2 36	0s21	0 47	13 56	0 43	21 33	0 13	21 22	1 17	0 31	0 41	13 6	1 47	6 28	13 20	3 48	3 27	9 57	11 28	0 6					
S 27	10 13	5s26	1 45	2 42	2 46	0 52	0 45	14 10	0 44	21 31	0 13	21 22	1 17	0 33	0 41	13 7	1 47	6 27	13 20	3 48	3 29	9 54	11 28	0 6					
M28	9 52	10 59	2 44	3 8	2 55	1 23	0 42	14 23	0 45	21 29	0 13	21 22	1 17	0 34	0 41	13 7	1 47	6 27	13 20	3 48	3 30	9 51	11 27	0 6					
T 29	9 31	16 12	3 38	3 33	3 3	1 54	0 40	14 37	0 45	21 27	0 13	21 23	1 16	0 35	0 41	13 8	1 46	6 27	13 21	3 47	3 31	9 47	11 27	0 6					
W30	9 9	20 52	4 22	3 56	3 12	2 25	0 37	14 51	0 46	21 25	0 13	21 23	1 16	0 37	0 41	13 8	1 46	6 27	13 21	3 47	3 32	9 44	11 26	0 6					
T 31	8n48	24s42	4s55	4s17	3s20	2s56	0n34	15s 4	0s47	21n23	0n13	21s23	1n16	0s38	0n41	13s 9	1n46	6n26	13s21	3s46	3s34	9n41	11n26	0s 7					

ASTRODIENST EPHEMERIS for the year 1634  
geocentric

SEPTEMBER 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 40 28	8♐24'21	11♊43	3♈33	9♎56	9♍3	25♏12	15♊4	3♈13	9♍58	26°R38	20°R30	20♋59	8♐5	0°R 4	F 1
S 2	22 44 25	9°22'35	25° 8	3°57	11° 8	9°43	25°23	15° 5	3°17	9°59	26♋38	20♋30	20°56	8°12	0♋3	S 2
S 3	22 48 21	10°20'51	8♌59	4°17	12°21	10°23	25°34	15° 7	3°20	10° 0	26°38	20°29	20°53	8°18	0° 1	S 3
M 4	22 52 18	11°19'08	23°16	4°31	13°33	11° 3	25°46	15° 8	3°24	10° 2	26°38	20°28	20°50	8°25	29♊59	M 4
T 5	22 56 15	12°17'27	7♌58	4°40	14°46	11°43	25°57	15°10	3°27	10° 3	26°38	20°27	20°46	8°32	29°58	T 5
W 6	23 0 11	13°15'47	22°58	4°R43	15°58	12°24	26° 8	15°11	3°31	10° 4	26°38	20°26	20°43	8°38	29°56	W 6
T 7	23 4 8	14°14'09	8♋9	4°39	17°11	13° 4	26°19	15°13	3°35	10° 6	26°37	20°26	20°40	8°45	29°54	T 7
F 8	23 8 4	15°12'33	23°21	4°30	18°23	13°44	26°30	15°15	3°38	10° 7	26°37	20°D26	20°37	8°52	29°52	F 8
S 9	23 12 1	16°10'58	8♊26	4°13	19°35	14°25	26°41	15°17	3°42	10° 9	26°37	20°26	20°34	8°58	29°51	S 9
S 10	23 15 57	17° 9'26	23°13	3°50	20°48	15° 5	26°51	15°19	3°46	10°10	26°37	20°26	20°31	9° 5	29°49	S 10
M11	23 19 54	18° 7'56	7♋39	3°20	22° 0	15°46	27° 2	15°21	3°49	10°12	26°36	20°26	20°27	9°11	29°47	M11
T 12	23 23 50	19° 6'28	21°38	2°43	23°12	16°27	27°13	15°23	3°53	10°13	26°36	20°27	20°24	9°18	29°45	T 12
W13	23 27 47	20° 5'02	5♊11	1°59	24°24	17° 8	27°23	15°26	3°57	10°15	26°36	20°R27	20°21	9°25	29°43	W13
T 14	23 31 43	21° 3'39	18°18	1°10	25°36	17°49	27°33	15°28	4° 0	10°16	26°35	20°D27	20°18	9°31	29°40	T 14
F 15	23 35 40	22° 2'18	1♌2	0°15	26°48	18°30	27°44	15°30	4° 4	10°18	26°35	20°27	20°15	9°38	29°38	F 15
S 16	23 39 37	23° 0'59	13°26	29♐15	28° 1	19°11	27°54	15°33	4° 8	10°20	26°34	20°27	20°11	9°45	29°36	S 16
S 17	23 43 33	23°59'42	25°36	28°12	29°13	19°53	28° 4	15°36	4°12	10°21	26°34	20°27	20° 8	9°51	29°34	S 17
M18	23 47 30	24°58'28	7♏35	27° 7	0♍25	20°34	28°14	15°38	4°15	10°23	26°34	20°28	20° 5	9°58	29°32	M18
T 19	23 51 26	25°57'15	19°27	26° 2	1°37	21°16	28°24	15°41	4°19	10°25	26°33	20°28	20° 2	10° 5	29°29	T 19
W20	23 55 23	26°56'05	1♐15	24°57	2°49	21°57	28°34	15°44	4°23	10°26	26°33	20°29	19°59	10°11	29°27	W20
T 21	23 59 19	27°54'57	13° 2	23°55	4° 1	22°39	28°43	15°47	4°27	10°28	26°32	20°29	19°56	10°18	29°25	T 21
F 22	0 3 16	28°53'51	24°51	22°57	5°12	23°21	28°53	15°50	4°30	10°30	26°32	20°R29	19°52	10°25	29°22	F 22
S 23	0 7 12	29°52'47	6♌44	22° 5	6°24	24° 3	29° 2	15°53	4°34	10°32	26°31	20°29	19°49	10°31	29°20	S 23
S 24	0 11 9	0♌51'45	18°43	21°20	7°36	24°45	29°12	15°57	4°38	10°34	26°31	20°28	19°46	10°38	29°17	S 24
M25	0 15 6	1°50'44	0♍50	20°44	8°48	25°27	29°21	16° 0	4°42	10°35	26°30	20°26	19°43	10°45	29°15	M25
T 26	0 19 2	2°49'46	13° 7	20°17	10° 0	26° 9	29°30	16° 4	4°45	10°37	26°29	20°25	19°40	10°51	29°12	T 26
W27	0 22 59	3°48'50	25°37	20° 1	11°11	26°51	29°39	16° 7	4°49	10°39	26°29	20°23	19°36	10°58	29°10	W27
T 28	0 26 55	4°47'56	8♊21	19°D54	12°23	27°34	29°48	16°11	4°53	10°41	26°28	20°21	19°33	11° 4	29° 7	T 28
F 29	0 30 52	5°47'03	21°23	19°58	13°35	28°16	29°56	16°14	4°57	10°43	26°27	20°20	19°30	11°11	29° 4	F 29
S 30	0 34 48	6♌46'13	4♌43	20♐13	14♍46	28♍59	0♏5	16♊18	5♌1	10♍45	26♋27	20°D19	19♋27	11♐18	29♊2	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
F 1	8n26	27s25	5s14	4s36	3s28	3s28	0n32	15s18	0s47	21n21	0n13	21s24	1n16	0s40	0n41	13s 9
S 2	8 4	28 40	5 16	4 52	3 35	3 59	0 29	15 31	0 48	21 20	0 13	21 24	1 16	0 41	0 41	13 9
S 3	7 42	28 11	5 1	5 6	3 42	4 30	0 26	15 44	0 49	21 18	0 14	21 24	1 15	0 42	0 41	13 10
M 4	7 20	25 52	4 27	5 18	3 49	5 0	0 23	15 57	0 49	21 16	0 14	21 25	1 15	0 44	0 41	13 10
T 5	6 58	21 46	3 35	5 26	3 54	5 31	0 20	16 10	0 50	21 14	0 14	21 25	1 15	0 45	0 41	13 11
W 6	6 35	16 12	2 27	5 32	3 59	6 2	0 17	16 23	0 50	21 12	0 14	21 25	1 15	0 47	0 41	13 11
T 7	6 13	9 35	1 8	5 34	4 2	6 32	0 14	16 36	0 51	21 10	0 14	21 26	1 15	0 48	0 41	13 12
F 8	5 50	2 24	0n16	5 32	4 5	7 3	0 11	16 49	0 52	21 8	0 14	21 26	1 14	0 50	0 41	13 12
S 9	5 28	4n51	1 38	5 27	4 7	7 33	0 8	17 2	0 52	21 6	0 14	21 27	1 14	0 51	0 41	13 13
S 10	5 5	11 43	2 52	5 18	4 7	8 3	0 5	17 14	0 53	21 4	0 14	21 27	1 14	0 53	0 41	13 13
M11	4 42	17 46	3 54	5 5	4 5	8 33	0 2	17 27	0 53	21 2	0 15	21 27	1 14	0 54	0 41	13 14
T 12	4 19	22 41	4 39	4 47	4 2	9 3	0s 1	17 39	0 54	21 0	0 15	21 28	1 14	0 56	0 41	13 14
W13	3 56	26 14	5 7	4 25	3 58	9 33	0 4	17 51	0 55	20 58	0 15	21 28	1 14	0 57	0 41	13 15
T 14	3 33	28 15	5 18	4 0	3 51	10 2	0 8	18 4	0 55	20 56	0 15	21 29	1 13	0 58	0 41	13 15
F 15	3 10	28 42	5 12	3 30	3 43	10 32	0 11	18 16	0 56	20 54	0 15	21 29	1 13	1 0	0 41	13 16
S 16	2 47	27 40	4 53	2 57	3 32	11 1	0 14	18 28	0 56	20 52	0 15	21 30	1 13	1 1	0 41	13 17
S 17	2 23	25 19	4 20	2 20	3 20	11 29	0 18	18 39	0 57	20 51	0 15	21 30	1 13	1 3	0 41	13 17
M18	2 0	21 54	3 37	1 42	3 6	11 58	0 21	18 51	0 57	20 49	0 15	21 31	1 13	1 4	0 41	13 18
T 19	1 37	17 37	2 44	1 1	2 50	12 26	0 24	19 2	0 58	20 47	0 16	21 31	1 12	1 6	0 41	13 18
W20	1 13	12 41	1 45	0 19	2 32	12 54	0 28	19 14	0 58	20 45	0 16	21 32	1 12	1 7	0 41	13 19
T 21	0 50	7 19	0 41	0n22	2 14	13 22	0 31	19 25	0 59	20 43	0 16	21 32	1 12	1 9	0 41	13 19
F 22	0 26	1 41	0s24	1 3	1 54	13 49	0 34	19 36	0 59	20 41	0 16	21 33	1 12	1 10	0 41	13 20
S 23	0 3	4s 2	1 29	1 42	1 34	14 16	0 38	19 47	1 0	20 40	0 16	21 33	1 12	1 12	0 41	13 21
S 24	0s21	9 40	2 30	2 18	1 14	14 43	0 41	19 58	1 0	20 38	0 16	21 34	1 12	1 13	0 41	13 21
M25	0 44	15 0	3 26	2 51	0 54	15 10	0 44	20 9	1 1	20 36	0 16	21 34	1 11	1 15	0 40	13 22
T 26	1 8	19 49	4 12	3 20	0 34	15 36	0 48	20 19	1 1	20 34	0 17	21 35	1 11	1 16	0 40	13 22
W27	1 31	23 51	4 47	3 44	0 15	16 2	0 51	20 30	1 2	20 32	0 17	21 35	1 11	1 18	0 40	13 23
T 28	1 55	26 50	5 9	4 3	0n 3	16 27	0 55	20 40	1 2	20 31	0 17	21 36	1 11	1 19	0 40	13 24
F 29	2 18	28 28	5 16	4 17	0 20	16 52	0 58	20 50	1 3	20 29	0 17	21 36	1 11	1 21	0 40	13 24
S 30	2s42	28s31	5s 6	4n26	0n36	17s17	1s 1	21s 0	1s 3	20n27	0n17	21s37	1n10	1s23	0n40	13s25

Julian Day Number = 2318109.5, Delta T = 54.33 sec  
Ecliptic obliquity = 23°29'22, Nutation = 0°00'03, out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 19°38'28, Lahiri = 18°45'29Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1634

## geocentric

OCTOBER 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 45	7♂45'24	18♂24	20♂38	15♂58	29♂41	0♂14	16♂22	5♂4	10♂47	26°R26	20♂20	19♂24	11♂24	28°R59	S 1
M 2	0 42 41	8°44'37	2♂27	21°12	17°9	0♂24	0°22	16°26	5°8	10°49	26♂25	20°21	19°21	11°31	28°Y56	M 2
T 3	0 46 38	9°43'51	16°51	21°55	18°21	1°7	0°30	16°30	5°12	10°51	26°25	20°22	19°17	11°38	28°53	T 3
W 4	0 50 35	10°43'07	1♂33	22°47	19°32	1°50	0°38	16°34	5°16	10°53	26°24	20°23	19°14	11°44	28°51	W 4
T 5	0 54 31	11°42'25	16°28	23°46	20°43	2°32	0°46	16°38	5°19	10°55	26°23	20°R24	19°11	11°51	28°48	T 5
F 6	0 58 28	12°41'45	1°Y30	24°52	21°55	3°16	0°54	16°42	5°23	10°57	26°22	20°23	19°8	11°58	28°45	F 6
S 7	1 2 24	13°41'07	16°30	26°4	23°6	3°59	1°2	16°47	5°27	10°59	26°22	20°22	19°5	12°4	28°42	S 7
S 8	1 6 21	14°40'31	1♂20	27°21	24°17	4°42	1°10	16°51	5°31	11°1	26°21	20°19	19°2	12°11	28°39	S 8
M 9	1 10 17	15°39'57	15°51	28°43	25°28	5°25	1°17	16°56	5°34	11°3	26°20	20°16	18°58	12°18	28°37	M 9
T 10	1 14 14	16°39'26	29°58	0♂9	26°39	6°8	1°24	17°0	5°38	11°5	26°19	20°12	18°55	12°24	28°34	T 10
W11	1 18 10	17°38'57	13♂38	1°38	27°50	6°52	1°32	17°5	5°42	11°7	26°18	20°8	18°52	12°31	28°31	W11
T 12	1 22 7	18°38'30	26°52	3°10	29°1	7°35	1°39	17°9	5°46	11°9	26°18	20°6	18°49	12°37	28°28	T 12
F 13	1 26 4	19°38'05	9♂39	4°45	0♂12	8°19	1°46	17°14	5°49	11°11	26°17	20°4	18°46	12°44	28°25	F 13
S 14	1 30 0	20°37'43	22°6	6°21	1°23	9°3	1°52	17°19	5°53	11°13	26°16	20°D 3	18°42	12°51	28°22	S 14
S 15	1 33 57	21°37'23	4♂15	7°58	2°33	9°46	1°59	17°24	5°57	11°16	26°15	20°4	18°39	12°57	28°19	S 15
M16	1 37 53	22°37'05	16°11	9°37	3°44	10°30	2°5	17°29	6°0	11°18	26°14	20°5	18°36	13°4	28°16	M16
T 17	1 41 50	23°36'50	28°1	11°17	4°55	11°14	2°12	17°34	6°4	11°20	26°13	20°7	18°33	13°11	28°13	T 17
W18	1 45 46	24°36'36	9♂47	12°57	6°5	11°58	2°18	17°39	6°8	11°22	26°12	20°9	18°30	13°17	28°10	W18
T 19	1 49 43	25°36'25	21°35	14°38	7°16	12°42	2°24	17°44	6°11	11°24	26°11	20°R 9	18°27	13°24	28°7	T 19
F 20	1 53 39	26°36'16	3♂28	16°18	8°26	13°26	2°30	17°49	6°15	11°26	26°10	20°8	18°23	13°31	28°4	F 20
S 21	1 57 36	27°36'09	15°29	17°59	9°37	14°11	2°35	17°54	6°19	11°29	26°9	20°5	18°20	13°37	28°1	S 21
S 22	2 1 33	28°36'04	27°40	19°40	10°47	14°55	2°41	18°0	6°22	11°31	26°8	20°1	18°17	13°44	27°58	S 22
M23	2 5 29	29°36'01	10♂3	21°21	11°57	15°39	2°46	18°5	6°26	11°33	26°7	19°54	18°14	13°51	27°55	M23
T 24	2 9 26	0♂36'00	22°37	23°2	13°7	16°24	2°51	18°11	6°29	11°35	26°6	19°47	18°11	13°57	27°53	T 24
W25	2 13 22	1°36'00	5♂24	24°42	14°17	17°8	2°56	18°16	6°33	11°37	26°5	19°40	18°8	14°4	27°50	W25
T 26	2 17 19	2°36'03	18°24	26°23	15°27	17°53	3°1	18°22	6°36	11°40	26°4	19°32	18°4	14°11	27°47	T 26
F 27	2 21 15	3°36'07	1♂37	28°2	16°37	18°37	3°6	18°27	6°40	11°42	26°3	19°27	18°1	14°17	27°44	F 27
S 28	2 25 12	4°36'13	15°2	29°42	17°47	19°22	3°10	18°33	6°43	11°44	26°2	19°23	17°58	14°24	27°41	S 28
S 29	2 29 8	5°36'21	28°42	1♂21	18°57	20°7	3°15	18°39	6°47	11°46	26°1	19°21	17°55	14°30	27°38	S 29
M30	2 33 5	6°36'30	12♂35	3°0	20°6	20°52	3°19	18°45	6°50	11°49	26°0	19°D21	17°52	14°37	27°35	M30
T 31	2 37 2	7♂36'40	26♂42	4♂38	21♂16	21♂37	3♂23	18♂50	6♂54	11♂51	25♂59	19♂22	17♂48	14♂44	27°Y32	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	3s 5	26s50	4s39	4n30	0n50	17s41	1s 5	21s 9	1s 3	20n26	0n17	21s37	1n10	1s24	0n40	13s26
M 2	3 28	23 28	3 55	4 28	1 4	18 5	1 8	21 19	1 4	20 24	0 18	21 38	1 10	1 26	0 40	13 26
T 3	3 52	18 36	2 55	4 22	1 15	18 28	1 11	21 28	1 4	20 22	0 18	21 39	1 10	1 27	0 40	13 27
W 4	4 15	12 32	1 42	4 11	1 25	18 51	1 15	21 37	1 5	20 21	0 18	21 39	1 10	1 29	0 40	13 27
T 5	4 38	5 41	0 22	3 35	1 34	19 14	1 18	21 46	1 5	20 19	0 18	21 40	1 10	1 30	0 40	13 28
F 6	5 2	1n32	1n 1	3 56	1 41	19 36	1 21	21 55	1 5	20 18	0 18	21 40	1 9	1 32	0 40	13 29
S 7	5 25	8 38	2 19	3 13	1 47	19 57	1 25	22 4	1 6	20 16	0 18	21 41	1 9	1 33	0 40	13 29
S 8	5 48	15 11	3 27	2 46	1 52	20 18	1 28	22 12	1 6	20 15	0 18	21 42	1 9	1 34	0 40	13 30
M 9	6 11	20 45	4 19	2 17	1 56	20 39	1 31	22 20	1 6	20 13	0 19	21 42	1 9	1 36	0 40	13 31
T 10	6 34	24 59	4 55	1 45	1 58	20 59	1 34	22 28	1 7	20 12	0 19	21 43	1 9	1 37	0 40	13 31
W11	6 56	27 39	5 12	1 11	2 0	21 18	1 38	22 36	1 7	20 10	0 19	21 43	1 9	1 39	0 40	13 32
T 12	7 19	28 39	5 12	0 35	2 1	21 37	1 41	22 44	1 8	20 9	0 19	21 44	1 8	1 40	0 40	13 33
F 13	7 42	28 3	4 56	0s 3	2 0	21 55	1 44	22 51	1 8	20 7	0 19	21 45	1 8	1 42	0 41	13 33
S 14	8 4	26 3	4 26	0 42	1 59	22 13	1 47	22 59	1 8	20 6	0 19	21 45	1 8	1 43	0 41	13 34
S 15	8 27	22 53	3 45	1 22	1 58	22 31	1 50	23 5	1 9	20 5	0 20	21 46	1 8	1 45	0 41	13 35
M16	8 49	18 48	2 55	2 3	1 55	22 47	1 53	23 12	1 9	20 3	0 20	21 46	1 8	1 46	0 41	13 35
T 17	9 11	14 2	1 58	2 45	1 52	23 3	1 56	23 19	1 9	20 2	0 20	21 47	1 8	1 48	0 41	13 36
W18	9 33	8 47	0 56	3 27	1 49	23 19	1 59	23 25	1 9	20 1	0 20	21 48	1 8	1 49	0 41	13 37
T 19	9 55	3 13	0s 8	4 10	1 45	23 34	2 1	23 31	1 10	20 0	0 20	21 48	1 7	1 51	0 41	13 38
F 20	10 17	2s29	1 12	4 53	1 40	23 48	2 4	23 37	1 10	19 59	0 20	21 49	1 7	1 52	0 41	13 39
S 21	10 39	8 10	2 14	5 36	1 36	24 2	2 7	23 43	1 10	19 57	0 21	21 49	1 7	1 53	0 41	13 39
S 22	11 0	13 37	3 10	6 19	1 31	24 15	2 10	23 48	1 11	19 56	0 21	21 50	1 7	1 55	0 41	13 40
M23	11 21	18 37	3 58	7 2	1 25	24 27	2 12	23 53	1 11	19 55	0 21	21 51	1 7	1 56	0 41	13 40
T 24	11 42	22 54	4 35	7 44	1 20	24 39	2 15	23 58	1 11	19 54	0 21	21 51	1 7	1 58	0 41	13 41
W25	12 3	26 9	5 0	8 27	1 14	24 50	2 17	24 3	1 11	19 53	0 21	21 52	1 7	1 59	0 41	13 42
T 26	12 24	28 7	5 9	9 9	1 8	25 0	2 20	24 7	1 12	19 52	0 21	21 53	1 6	2 0	0 41	13 42
F 27	12 45	28 31	5 2	9 50	1 2	25 10	2 22	24 12	1 12	19 51	0 22	21 53	1 6	2 2	0 41	13 43
S 28	13 5	27 15	4 39	10 31	0 55	25 19	2 24	24 15	1 12	19 51	0 22	21 54	1 6	2 3	0 41	13 44
S 29	13 25	24 22	3 59	11 12	0 49	25 28	2 26	24 19	1 12	19 50	0 22	21 54	1 6	2 4	0 41	13 44
M30	13 45	20 2	3 5	11 52	0 43	25 35	2 28	24 23	1 12	19 49	0 22	21 55	1 6	2 6	0 41	13 45
T 31	14s 5	14s30	1s59	12s32	0n36	25s42	2s31	24s26	1s13	19n48	0n22	21s56	1n 6	2s 7	0n41	13s46

Julian Day Number = 2318139.5, Delta T = 54.26 sec  
 Ecliptic obliquity = 23°29'22", Nutation = 0°00'03", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 19°38'32", Lahiri = 18°45'33"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1634  
geocentric

NOVEMBER 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 40 58	8♉36°52	11♊ 3	6♉16	22♊25	22♊22	3♉27	18♊56	6♉57	11♉53	25°R58	19♊23	17♊45	14♉50	27°R29	W 1
T 2	2 44 55	9°37'05	25°34	7°53	23°34	23° 7	3°30	19° 2	7° 0	11°55	25♉57	19°R23	17°42	14°57	27°Y26	T 2
F 3	2 48 51	10°37'20	10°Y12	9°31	24°44	23°52	3°34	19° 8	7° 4	11°58	25°56	19°21	17°39	15° 4	27°23	F 3
S 4	2 52 48	11°37'37	24°52	11° 7	25°53	24°37	3°37	19°14	7° 7	12° 0	25°55	19°17	17°36	15°10	27°20	S 4
S 5	2 56 44	12°37'55	9♉27	12°44	27° 2	25°22	3°40	19°20	7°10	12° 2	25°54	19°11	17°33	15°17	27°18	S 5
M 6	3 0 41	13°38'15	23°49	14°20	28°10	26° 7	3°43	19°27	7°13	12° 4	25°53	19° 2	17°29	15°24	27°15	M 6
T 7	3 4 37	14°38'37	7♉53	15°56	29°19	26°53	3°45	19°33	7°17	12° 7	25°52	18°53	17°26	15°30	27°12	T 7
W 8	3 8 34	15°39'00	21°34	17°31	0♉38	27°38	3°48	19°39	7°20	12° 9	25°50	18°43	17°23	15°37	27° 9	W 8
T 9	3 12 31	16°39'26	4♉50	19° 6	1°36	28°23	3°50	19°45	7°23	12°11	25°49	18°35	17°20	15°44	27° 6	T 9
F 10	3 16 27	17°39'53	17°41	20°41	2°44	29° 9	3°52	19°52	7°26	12°13	25°48	18°28	17°17	15°50	27° 4	F 10
S 11	3 20 24	18°40'22	0♉10	22°16	3°53	29°54	3°54	19°58	7°29	12°16	25°47	18°24	17°14	15°57	27° 1	S 11
S 12	3 24 20	19°40'53	12°20	23°50	5° 1	0♉40	3°56	20° 4	7°32	12°18	25°46	18°22	17°10	16° 3	26°58	S 12
M13	3 28 17	20°41'26	24°18	25°24	6° 9	1°26	3°58	20°11	7°35	12°20	25°45	18°D22	17° 7	16°10	26°56	M13
T 14	3 32 13	21°42'00	6♉17	26°58	7°16	2°11	3°59	20°17	7°38	12°22	25°44	18°23	17° 4	16°17	26°53	T 14
W15	3 36 10	22°42'36	17°54	28°31	8°24	2°57	4° 0	20°24	7°41	12°25	25°43	18°R23	17° 1	16°23	26°50	W15
T 16	3 40 6	23°43'14	29°44	0♉5	9°31	3°43	4° 1	20°30	7°44	12°27	25°41	18°22	16°58	16°30	26°48	T 16
F 17	3 44 3	24°43'54	11♉41	1°38	10°38	4°29	4° 2	20°37	7°47	12°29	25°40	18°20	16°54	16°37	26°45	F 17
S 18	3 48 0	25°44'35	23°50	3°11	11°46	5°15	4° 3	20°43	7°50	12°31	25°39	18°14	16°51	16°43	26°43	S 18
S 19	3 51 56	26°45'18	6♉13	4°44	12°52	6° 1	4° 3	20°50	7°53	12°33	25°38	18° 6	16°48	16°50	26°40	S 19
M20	3 55 53	27°46'02	18°51	6°17	13°59	6°47	4°R 3	20°57	7°56	12°36	25°37	17°55	16°45	16°57	26°38	M20
T 21	3 59 49	28°46'48	1♉46	7°50	15° 6	7°33	4° 3	21° 3	7°58	12°38	25°36	17°43	16°42	17° 3	26°35	T 21
W22	4 3 46	29°47'35	14°56	9°22	16°12	8°19	4° 3	21°10	8° 1	12°40	25°35	17°30	16°39	17°10	26°33	W22
T 23	4 7 42	0♉48'23	28°19	10°55	17°18	9° 5	4° 2	21°17	8° 4	12°42	25°34	17°18	16°35	17°17	26°31	T 23
F 24	4 11 39	1°49'12	11♉54	12°27	18°24	9°52	4° 2	21°24	8° 6	12°44	25°32	17° 8	16°32	17°23	26°28	F 24
S 25	4 15 35	2°50'03	25°37	13°59	19°30	10°38	4° 1	21°30	8° 9	12°46	25°31	17° 0	16°29	17°30	26°26	S 25
S 26	4 19 32	3°50'54	9♉28	15°31	20°35	11°24	4° 0	21°37	8°11	12°49	25°30	16°56	16°26	17°37	26°24	S 26
M27	4 23 29	4°51'47	23°24	17° 3	21°40	12°11	3°59	21°44	8°14	12°51	25°29	16°54	16°23	17°43	26°22	M27
T 28	4 27 25	5°52'40	7♉25	18°34	22°45	12°57	3°57	21°51	8°16	12°53	25°28	16°D53	16°20	17°50	26°20	T 28
W29	4 31 22	6°53'33	21°32	20° 6	23°50	13°43	3°56	21°58	8°19	12°55	25°27	16°R53	16°16	17°56	26°17	W29
T 30	4 35 18	7♉54'28	5°Y42	21♉37	24♉54	14♉30	3♉54	22♉ 5	8♉21	12♉57	25♉26	16♉52	16♉13	18♉ 3	26°Y15	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	14s24	8s 8	0s45	13s11	0n29	25s48	2s32	24s29	1s13	19n47	0n23	21s56	1n 6	2s 8	0n41	13s47	1n45	6n 7	13s32	4s13	4s51	6n13	10n25	0s12	
T 2	14 43	1 15	0n33	13 49	0 23	25 54	2 34	24 31	1 13	19 47	0 23	21 57	1 5	2 10	0 41	13 47	1 45	6 7	13 32	4 13	4 52	6 10	10 24	0 12	
F 3	15 2	5n44	1 50	14 26	0 16	25 59	2 36	24 34	1 13	19 46	0 23	21 58	1 5	2 11	0 41	13 48	1 45	6 7	13 32	4 13	4 53	6 7	10 22	0 12	
S 4	15 21	12 25	2 59	15 3	0 9	26 3	2 38	24 36	1 13	19 46	0 23	21 58	1 5	2 12	0 41	13 49	1 45	6 6	13 32	4 15	4 55	6 3	10 21	0 12	
S 5	15 40	18 23	3 56	15 39	0 2	26 7	2 39	24 38	1 13	19 45	0 23	21 59	1 5	2 14	0 41	13 49	1 45	6 6	13 32	4 18	4 56	6 0	10 20	0 12	
M 6	15 58	23 14	4 37	16 14	0s 4	26 9	2 41	24 39	1 14	19 45	0 23	21 59	1 5	2 15	0 41	13 50	1 45	6 6	13 32	4 21	4 57	5 57	10 19	0 13	
T 7	16 16	26 36	5 0	16 49	0 11	26 11	2 42	24 41	1 14	19 44	0 24	22 0	1 5	2 16	0 41	13 51	1 45	6 5	13 32	4 25	4 58	5 53	10 18	0 13	
W 8	16 34	28 18	5 5	17 22	0 18	26 13	2 43	24 42	1 14	19 44	0 24	22 1	1 5	2 17	0 41	13 51	1 45	6 5	13 32	4 28	5 0	5 50	10 17	0 13	
T 9	16 51	28 17	4 53	17 55	0 24	26 13	2 45	24 43	1 14	19 43	0 24	22 1	1 5	2 19	0 41	13 52	1 45	6 5	13 32	4 32	5 1	5 46	10 16	0 13	
F 10	17 8	26 44	4 27	18 27	0 31	26 13	2 46	24 43	1 14	19 43	0 24	22 2	1 4	2 20	0 41	13 53	1 45	6 5	13 32	4 34	5 2	5 43	10 15	0 13	
S 11	17 25	23 53	3 49	18 58	0 37	26 12	2 47	24 44	1 14	19 43	0 24	22 2	1 4	2 21	0 41	13 53	1 45	6 4	13 32	4 36	5 3	5 40	10 14	0 13	
S 12	17 42	20 1	3 0	19 28	0 43	26 11	2 47	24 44	1 14	19 43	0 25	22 3	1 4	2 22	0 41	13 54	1 45	6 4	13 32	4 37	5 5	5 36	10 13	0 13	
M13	17 58	15 25	2 5	19 57	0 50	26 9	2 48	24 43	1 14	19 42	0 25	22 4	1 4	2 23	0 41	13 55	1 45	6 4	13 32	4 37	5 6	5 33	10 12	0 13	
T 14	18 14	10 18	1 5	20 26	0 56	26 6	2 49	24 43	1 14	19 42	0 25	22 4	1 4	2 25	0 41	13 55	1 45	6 4	13 32	4 36	5 7	5 29	10 11	0 13	
W15	18 29	4 50	0 3	20 53	1 2	26 2	2 49	24 42	1 15	19 42	0 25	22 5	1 4	2 26	0 41	13 56	1 45	6 3	13 32	4 36	5 8	5 26	10 10	0 13	
T 16	18 45	0s49	1s 0	21 19	1 8	25 58	2 50	24 41	1 15	19 42	0 25	22 5	1 4	2 27	0 41	13 57	1 45	6 3	13 32	4 36	5 10	5 23	10 9	0 13	
F 17	18 59	6 29	2 1	21 44	1 14	25 53	2 50	24 39	1 15	19 42	0 26	22 6	1 4	2 28	0 41	13 57	1 45	6 3	13 32	4 38	5 11	5 19	10 8	0 13	
S 18	19 14	12 0	2 57	22 8	1 19	25 47	2 50	24 38	1 15	19 42	0 26	22 6	1 4	2 29	0 41	13 58	1 45	6 3	13 32	4 40	5 12	5 16	10 7	0 14	
S 19	19 28	17 10	3 46	22 31	1 25	25 41	2 50	24 36	1 15	19 42	0 26	22 7	1 4	2 30	0 41	13 59	1 45	6 3	13 32	4 43	5 13	5 12	10 6	0 14	
M20	19 42	21 42	4 24	22 53	1 30	25 34	2 50	24 34	1 15	19 42	0 26	22 7	1 3	2 31	0 41	13 59	1 45	6 2	13 32	4 47	5 15	5 9	10 5	0 14	
T 21	19 56	25 17	4 50	23 13	1 35	25 26	2 50	24 31	1 15	19 43	0 26	22 8	1 3	2 32	0 41	14 0	1 45	6 2	13 32	4 52	5 16	5 6	10 4	0 14	
W22	20 9	27 37	5 1	23 33	1 40	25 18	2 49	24 28	1 15	19 43	0 27	22 9	1 3	2 33	0 41	14 1	1 45	6 2	13 32	4 57	5 17	5 2	10 3	0 14	
T 23	20 22	28 25	4 56	23 51	1 45	25 9	2 49	24 25	1 15	19 43	0 27	22 9	1 3	2 34	0 41	14 1	1 45	6 2	13 32	5 2	5 18	4 59	10 2	0 14	
F 24	20 34	27 30	4 34	24 8	1 49	25 0	2 48	24 22	1 15	19 43	0 27	22 10	1 3	2 35	0 41	14 2	1 45	6 2	13 32	5 6	5 19	4 55	10 1	0 14	
S 25	20 46	24 56	3 56	24 24	1 53	24 49	2 47	24 18	1 15	19 44	0 27	22 10	1 3	2 36	0 41	14 2	1 45	6 1	13 32	5 8	5 21	4 52	10 0	0 14	
S 26	20 58	20 53	3 4	24 39	1 57	24 39	2 46	24 14	1 15	19 44	0 27	22 11	1 3	2 37	0 41	14 3	1 45	6 1	13 32	5 10	5 22	4 49	9 59	0 14	
M27	21 9	15 39	2 1	24 52	2 1	24 27	2 45	24 10	1 15	19 45	0 28	22 11	1 3	2 38	0 41	14 4	1 45	6 1	13 31	5 11	5 23	4 45	9 58	0 14	
T 28	21 20	9 34	0 50	25 4	2 4	24 15	2 44	24 6	1 15	19 45	0 28	22 12	1 3	2 39	0 41	14 4	1 45	6 1	13 31	5 11	5 24	4 42	9 57	0 14	
W29	21 30	2 59	0n25	25 14	2 7	24 3	2 42	24 1	1 15	19 46	0 28	22 12	1 3	2 40	0 41	14 5	1 45	6 1	13 31	5 11	5 26	4 38	9 57	0 14	
T 30	21s40	3n46	1n38	25s23	2s10	23s50	2s41	23s56	1s15	19n46	0n28	22s13	1n 2	2s41	0n41	14s 6	1n45	6n 1	13s31	5s12	5s27	4n35	9n56	0s14	

ASTRODIENST EPHEMERIS for the year 1634  
geocentric

DECEMBER 1634 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 39 15	8 <sup>27</sup> 55'23	19 <sup>19</sup> 55	23 <sup>27</sup> 8	25 <sup>25</sup> 59	15 <sup>28</sup> 16	3°R52	22 <sup>27</sup> 12	8 <sup>22</sup> 23	12 <sup>12</sup> 59	25°R25	16°R49	16 <sup>16</sup> 10	18 <sup>18</sup> 10	26°R13	F 1
S 2	4 43 11	9°56'19	4 <sup>4</sup> 7	24°38	27° 2	16° 3	3 <sup>3</sup> 50	22°19	8°26	13° 1	25°R24	16 <sup>16</sup> 43	16° 7	18°16	26 <sup>26</sup> Y11	S 2
S 3	4 47 8	10°57'16	18°15	26° 8	28° 6	16°49	3°47	22°26	8°28	13° 3	25°22	16°34	16° 4	18°23	26°10	S 3
M 4	4 51 4	11°58'14	2 <sup>2</sup> 115	27°38	29° 9	17°36	3°45	22°33	8°30	13° 5	25°21	16°23	16° 0	18°30	26° 8	M 4
T 5	4 55 1	12°59'12	16° 2	29° 7	0 <sup>0</sup> 112	18°23	3°42	22°40	8°32	13° 7	25°20	16°10	15°57	18°36	26° 6	T 5
W 6	4 58 58	14° 0'12	29°30	0 <sup>0</sup> 336	1°15	19° 9	3°39	22°47	8°34	13° 9	25°19	15°56	15°54	18°43	26° 4	W 6
T 7	5 2 54	15° 1'12	12 <sup>12</sup> 39	2° 3	2°17	19°56	3°36	22°54	8°36	13°11	25°18	15°44	15°51	18°50	26° 2	T 7
F 8	5 6 51	16° 2'13	25°27	3°30	3°19	20°43	3°33	23° 1	8°38	13°13	25°17	15°34	15°48	18°56	26° 1	F 8
S 9	5 10 47	17° 3'16	7 <sup>7</sup> 56	4°56	4°20	21°30	3°29	23° 8	8°40	13°15	25°16	15°27	15°45	19° 3	25°59	S 9
S 10	5 14 44	18° 4'19	20° 7	6°20	5°21	22°17	3°25	23°15	8°42	13°17	25°15	15°23	15°41	19°10	25°58	S 10
M 11	5 18 40	19° 5'23	2 <sup>2</sup> 115	7°43	6°22	23° 3	3°22	23°22	8°44	13°19	25°14	15°21	15°38	19°16	25°56	M 11
T 12	5 22 37	20° 6'28	13°55	9° 4	7°22	23°50	3°17	23°29	8°46	13°21	25°13	15°20	15°35	19°23	25°55	T 12
W 13	5 26 34	21° 7'34	25°42	10°23	8°22	24°37	3°13	23°36	8°48	13°23	25°12	15°20	15°32	19°29	25°53	W 13
T 14	5 30 30	22° 8'40	7 <sup>7</sup> 53	11°40	9°22	25°24	3° 9	23°43	8°49	13°25	25°11	15°20	15°29	19°36	25°52	T 14
F 15	5 34 27	23° 9'48	19°31	12°53	10°21	26°11	3° 4	23°50	8°51	13°27	25°10	15°17	15°26	19°43	25°51	F 15
S 16	5 38 23	24°10'56	1 <sup>1</sup> 114	14° 3	11°19	26°58	2°59	23°57	8°53	13°28	25° 9	15°12	15°22	19°49	25°49	S 16
S 17	5 42 20	25°12'05	14°13	15°10	12°17	27°45	2°54	24° 4	8°54	13°30	25° 8	15° 4	15°19	19°56	25°48	S 17
M 18	5 46 16	26°13'14	27° 3	16°11	13°15	28°32	2°49	24°11	8°56	13°32	25° 7	14°54	15°16	20° 3	25°47	M 18
T 19	5 50 13	27°14'24	10 <sup>10</sup> 714	17° 7	14°12	29°19	2°44	24°18	8°57	13°34	25° 6	14°41	15°13	20° 9	25°46	T 19
W 20	5 54 9	28°15'35	23°45	17°57	15° 8	0 <sup>0</sup> 112	2°39	24°25	8°59	13°36	25° 5	14°28	15°10	20°16	25°45	W 20
T 21	5 58 6	29°16'46	7 <sup>7</sup> 33	18°41	16° 4	0°53	2°33	24°32	9° 0	13°37	25° 4	14°16	15° 6	20°23	25°44	T 21
F 22	6 2 3	0 <sup>0</sup> 317'57	21°35	19°16	16°59	1°41	2°27	24°39	9° 1	13°39	25° 3	14° 5	15° 3	20°29	25°43	F 22
S 23	6 5 59	1°19'09	5 <sup>5</sup> 114	19°43	17°54	2°28	2°21	24°46	9° 2	13°41	25° 3	13°57	15° 0	20°36	25°42	S 23
S 24	6 9 56	2°20'20	19°59	20° 0	18°48	3°15	2°15	24°53	9° 4	13°42	25° 2	13°53	14°57	20°43	25°42	S 24
M 25	6 13 52	3°21'31	4 <sup>4</sup> 112	20°R 7	19°41	4° 2	2° 9	25° 0	9° 5	13°44	25° 1	13°51	14°54	20°49	25°41	M 25
T 26	6 17 49	4°22'42	18°24	20° 2	20°34	4°49	2° 3	25° 7	9° 6	13°45	25° 0	13°D50	14°51	20°56	25°40	T 26
W 27	6 21 45	5°23'53	2 <sup>2</sup> 115	19°46	21°25	5°37	1°57	25°14	9° 7	13°47	24°59	13°R51	14°47	21° 3	25°40	W 27
T 28	6 25 42	6°25'03	16°32	19°18	22°17	6°24	1°50	25°21	9° 8	13°49	24°58	13°50	14°44	21° 9	25°39	T 28
F 29	6 29 38	7°26'13	0 <sup>0</sup> 318	18°39	23° 7	7°11	1°43	25°28	9° 9	13°50	24°57	13°48	14°41	21°16	25°39	F 29
S 30	6 33 35	8°27'23	14°17	17°48	23°56	7°58	1°36	25°35	9° 9	13°52	24°57	13°43	14°38	21°22	25°38	S 30
S 31	6 37 32	9 <sup>9</sup> 28'33	27 <sup>27</sup> 59	16 <sup>16</sup> 347	24 <sup>24</sup> 145	8 <sup>8</sup> 146	1 <sup>1</sup> 30	25 <sup>25</sup> 42	9 <sup>9</sup> 10	13 <sup>13</sup> 53	24 <sup>24</sup> 56	13 <sup>13</sup> 36	14 <sup>14</sup> 35	21 <sup>21</sup> 29	25 <sup>25</sup> Y38	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
F 1	21s50	10n21	2n45	25s31	2s13	23s36	2s39	23s51	1s15	19n47	0n28	22s13	1n 2	2s42	0n41	14s 6	1n45	6n 0	13s31	5s13	5s28	4n31	9n55	0s15	
S 2	21 59	16 24	3 42	25 37	2 15	23 22	2 37	23 45	1 15	19 48	0 29	22 14	1 2	2 43	0 41	14 7	1 45	6 0	13 31	5 15	5 29	4 28	9 54	0 15	
S 3	22 8	21 32	4 25	25 42	2 16	23 7	2 35	23 40	1 15	19 49	0 29	22 14	1 2	2 44	0 41	14 7	1 45	6 0	13 31	5 19	5 31	4 25	9 53	0 15	
M 4	22 16	25 24	4 51	25 46	2 18	22 52	2 33	23 34	1 14	19 49	0 29	22 15	1 2	2 45	0 41	14 8	1 45	6 0	13 31	5 23	5 32	4 21	9 53	0 15	
T 5	22 24	27 44	5 0	25 47	2 18	22 36	2 30	23 27	1 14	19 50	0 29	22 15	1 2	2 45	0 41	14 9	1 45	6 0	13 31	5 28	5 33	4 18	9 52	0 15	
W 6	22 32	28 21	4 52	25 48	2 19	22 20	2 28	23 21	1 14	19 51	0 29	22 16	1 2	2 46	0 42	14 9	1 45	6 0	13 31	5 33	5 34	4 14	9 51	0 15	
T 7	22 39	27 20	4 28	25 47	2 18	22 3	2 25	23 14	1 14	19 52	0 30	22 16	1 2	2 47	0 42	14 10	1 45	6 0	13 30	5 38	5 36	4 11	9 51	0 15	
F 8	22 45	24 53	3 51	25 44	2 18	21 46	2 22	23 7	1 14	19 53	0 30	22 17	1 2	2 48	0 42	14 10	1 45	6 0	13 30	5 42	5 37	4 8	9 50	0 15	
S 9	22 51	21 17	3 4	25 40	2 16	21 28	2 19	22 59	1 14	19 54	0 30	22 17	1 2	2 48	0 42	14 11	1 45	5 59	13 30	5 45	5 38	4 4	9 49	0 15	
S 10	22 57	16 51	2 9	25 34	2 14	21 10	2 16	22 51	1 14	19 55	0 30	22 17	1 2	2 49	0 42	14 11	1 45	5 59	13 30	5 46	5 39	4 1	9 49	0 15	
M 11	23 2	11 50	1 10	25 27	2 12	20 51	2 12	22 44	1 14	19 56	0 30	22 18	1 2	2 50	0 42	14 12	1 45	5 59	13 30	5 47	5 40	3 57	9 48	0 15	
T 12	23 7	6 27	0 8	25 19	2 8	20 33	2 9	22 35	1 14	19 57	0 31	22 18	1 2	2 51	0 42	14 12	1 45	5 59	13 30	5 47	5 42	3 54	9 47	0 15	
W 13	23 11	0 53	0s55	25 9	2 4	20 13	2 5	22 27	1 13	19 59	0 31	22 19	1 1	2 51	0 42	14 13	1 45	5 59	13 30	5 47	5 43	3 50	9 47	0 15	
T 14	23 15	4s45	1 55	24 57	1 59	19 54	2 1	22 18	1 13	20 0	0 31	22 19	1 1	2 52	0 42	14 13	1 45	5 59	13 29	5 48	5 44	3 47	9 46	0 16	
F 15	23 19	10 17	2 51	24 45	1 53	19 34	1 57	22 9	1 13	20 1	0 31	22 19	1 1	2 53	0 42	14 14	1 45	5 59	13 29	5 49	5 45	3 44	9 46	0 16	
S 16	23 22	15 32	3 39	24 31	1 47	19 13	1 53	22 0	1 13	20 2	0 31	22 20	1 1	2 53	0 42	14 14	1 45	5 59	13 29	5 51	5 47	3 40	9 45	0 16	
S 17	23 24	20 15	4 19	24 16	1 39	18 53	1 48	21 51	1 13	20 4	0 32	22 20	1 1	2 54	0 42	14 15	1 45	5 59	13 29	5 54	5 48	3 37	9 45	0 16	
M 18	23 26	24 11	4 47	24 0	1 30	18 32	1 43	21 41	1 13	20 5	0 32	22 21	1 1	2 54	0 42	14 15	1 45	5 59	13 29	5 58	5 49	3 33	9 44	0 16	
T 19	23 28	26 58	5 0	23 43	1 20	18 10	1 38	21 31	1 12	20 6	0 32	22 21	1 1	2 55	0 42	14 16	1 45	5 59	13 29	6 3	5 50	3 30	9 44	0 16	
W 20	23 29	28 17	4 57	23 26	1 9	17 49	1 33	21 21	1 12	20 8	0 32	22 21	1 1	2 55	0 42	14 16	1 45	5 59	13 28	6 8	5 52	3 26	9 43	0 16	
T 21	23 29	27 53	4 37	23 8	0 57	17 27	1 28	21 10	1 12	20 9	0 32	22 22	1 1	2 56	0 42	14 17	1 46	5 59	13 28	6 12	5 53	3 23	9 43	0 16	
F 22	23 29	25 42	4 0	22 49	0 44	17 5	1 22	21 0	1 12	20 11	0 32	22 22	1 1	2 56	0 42	14 17	1 46	5 59	13 28	6 16	5 54	3 20	9 43	0 16	
S 23	23 29	21 54	3 7	22 31	0 29	16 43	1 16	20 49	1 12	20 12	0 33	22 22	1 1	2 57	0 42	14 18	1 46	5 59	13 28	6 19	5 55	3 16	9 42	0 16	
S 24	23 28	16 48	2 3	22 13	0 13	16 20	1 10	20 38	1 11	20 14	0 33	22 23	1 1	2 57	0 42	14 18	1 46	5 59	13 28	6 21	5 56	3 13	9 42	0 16	
M 25	23 27	10 47	0 51	21 55	0n 4	15 57	1 4	20 26	1 11	20 15	0 33	22 23	1 1	2 58	0 42	14 19	1 46	5 59	13 27	6 22	5 58	3 9	9 42	0 16	
T 26	23 25	4 14	0n24	21 38	0 21	15 35	0 58	20 15	1 11	20 17	0 33	22 23	1 1	2 58	0 42	14 19	1 46	5 59	13 27	6 22	5 59	3 6	9 41	0 16	
W 27	23 23	2n29	1 38	21 22	0 40	15 12	0 51	20 3	1 11	20 19	0 33	22 24	1 1	2 58	0 42	14 20	1 46	5 59	13 27	6 22	6 0	3 3	9 41	0 16	
T 28	23 20	9 3	2 45	21 7	0 59	14 48	0 44	19 51	1 10	20 20	0 34	22 24	1 1	2 59	0 42	14 20	1 46	5 59	13 27	6 22	6 1	2 59	9 41	0 17	
F 29	23 17	15 7	3 41	20 53	1 19	14 25	0 37	19 39	1 10	20 22	0 34	22 24	1 1	2 59	0 42	14 20	1 46	5 59	13 26	6 23	6 3	2 56	9 41	0 17	
S 30	23 13	20 22	4 25	20 41	1 38	14 2	0 29	19 26	1 10	20 24	0 34	22 24	1 1	2 59	0 42	14 21	1 46	5 59	13 26	6 25	6 4	2 52	9 40	0 17	
S 31	23s 9	24n30	4n52	20s30	1n57	13s39	0s22	19s14	1s10	20n25	0n34	22s25	1n 0	3s 0	0n42	14s21	1n46	5n59	13s26	6s28	6s 5	2n49	9n40	0s17	