



Astrodienst Ephemeris Tables for the year 1642

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 1642
geocentric

JANUARY 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	6 42 40	10°34'05"	8°34'46"	0°R 1	11°17'10"	2°17'29"	14°32'32"	8°13'13"	11°18'09"	28°14'46"	1°R40	0°R 9	29°17'07"	6°24'24"	1°R35	W 1
T 2	6 46 37	11°49'17"	24° 7'	29°17'08"	12°24'31"	3°10'10"	14°45'14"	8°18'18"	11°11'28"	28°48'11"	1°11'39"	29°15'58"	29° 4'	6°31'11"	1°11'33"	T 2
F 3	6 50 34	12°50'29"	9°17'46"	28°25'13"	13°39'35"	3°52'14"	14°58'15"	8°23'28"	11°14'28"	28°50'13"	1°38'29"	29°47'29"	29° 1'	6°38'13"	1°30'12"	F 3
S 4	6 54 30	13°51'40"	24° 6'	27°52'14"	14°53'43"	4°33'15"	15°12'8"	8°28'11"	11°16'28"	28°51'13"	1°37'29"	29°38'28"	29°58'6"	6°45'12"	1°28'12"	S 4
S 5	6 58 27	14°52'51"	8°17'29"	27°29'16"	16° 8'	5°15'15"	15°25'39"	8°33'39"	11°18'20"	28°53'13"	1°37'29"	29°31'28"	28°55'6"	6°51'12"	1°26'12"	S 5
M 6	7 2 23	15°54'01"	22°21'17"	27°16'19"	17°22'57"	5°57'15"	15°39'8"	8°39'44"	11°20'22"	28°55'13"	1°36'29"	29°26'28"	28°51'6"	6°58'12"	1°23'12"	M 6
T 7	7 6 20	16°55'11"	5°17'43"	27°D11	18°37'6"	6°38'15"	15°52'44"	8°44'11"	11°22'28"	28°57'13"	1°35'29"	29°24'28"	28°48'7"	7° 5'	1°21'12"	T 7
W 8	7 10 16	17°56'19"	18°38'27"	16°19'51"	7°20'16"	6° 8'	16°19'8"	8°49'55"	11°24'29"	28°58'13"	1°34'29"	29°D24	28°45'7"	7°11'19"	1°19'12"	W 8
T 9	7 14 13	18°57'28"	18°12'27"	27°28'48"	21° 6'	8° 2'	16°19'8"	8°55'9"	11°26'29"	29° 0'	1°33'29"	29°R24	28°42'7"	7°18'19"	1°17'12"	T 9
F 10	7 18 9	19°58'35"	13°27'27"	27°48'23"	22°20'8"	8°44'16"	16°33'9"	9° 1'	11°28'29"	29° 1'	1°33'29"	29°23'28"	28°39'7"	7°25'15"	1°15'12"	F 10
S 11	7 22 6	20°59'42"	25°31'28"	14°23'35"	9°26'16"	9°26'16"	16°46'9"	9° 6'	11°30'29"	29° 3'	1°32'29"	29°21'28"	28°36'7"	7°32'13"	1°13'12"	S 11
S 12	7 26 3	22° 0'48"	7°11'26"	28°46'24"	24°50'10"	7°17'0"	17° 0'	9°12'11"	11°32'29"	29° 5'	1°31'29"	29°16'28"	28°32'7"	7°38'11"	1°11'12"	S 12
M13	7 29 59	23° 1'53"	19°17'29"	29°24'26"	26° 4'	10°49'17"	17°14'9"	9°18'11"	11°34'29"	29° 6'	1°31'29"	29° 7'	28°29'7"	7°45'1°	9°12"	M13
T 14	7 33 56	24° 2'58"	1°17'08"	0°17'08"	27°19'11"	11°31'17"	17°28'9"	9°24'11"	11°35'29"	29° 8'	1°30'28"	28°56'28"	28°26'7"	7°52'1°	8° 1'	T 14
W15	7 37 52	25° 4'01"	13° 0'	0°54'28"	28°33'12"	12°13'17"	17°42'9"	9°30'11"	11°37'29"	29° 9'	1°29'28"	28°42'28"	28°23'7"	7°58'1°	6° 1'	W15
T 16	7 41 49	26° 5'05"	24°55'1°	45'29"	29°48'12"	55'17"	17°55'9"	9°36'11"	11°39'29"	10'12"	1°29'28"	28°28'28"	28°20'8"	8° 5'	1° 4'	T 16
F 17	7 45 45	27° 6'07"	6°12'54"	2°40'13"	1°33'18"	9°42'18"	18° 9'	9°42'11"	11°40'29"	12'12"	1°28'28"	28°12'28"	28°17'8"	8°12'1°	3° 3'	F 17
S 18	7 49 42	28° 7'08"	18°58'3°	38'2°	17'14°	19'14°	18°23'9"	9°48'11"	11°42'29"	13'12"	1°28'27"	27°58'28"	28°13'8"	8°19'1°	1° 1'	S 18
S 19	7 53 38	29° 8'09"	1°17'08"	4°39'54"	3°32'44"	15°43'18"	15° 1'	18°37'10"	11°43'29"	15'12"	1°27'27"	27°46'28"	28°10'8"	8°25'1°	0° 0'	S 19
M20	7 57 35	0°10'09"	13°27'54"	5°43'44"	15°43'18"	15° 1'	18°37'10"	10° 0'	11°45'29"	16'12"	1°27'27"	27°37'28"	28° 7'	8°32'0°	5'9"	M20
T 21	8 1 32	1°10'09"	25°55'6°	49'6°	1°16'25"	19° 5'	10° 6'	11°46'29"	11°46'29"	17'12"	1°26'27"	27°32'28"	28° 4'	8°39'0°	5'7"	T 21
W22	8 5 28	2°11'08"	8°12'37"	7°58'7°	16'17"	8°19°	20°10°	10°13'11"	11°47'29"	19'12"	1°26'27"	27°28'28"	28° 1'	8°45'0°	5'6"	W22
T 23	8 9 25	3°12'06"	21°34'9°	8°31'17"	50'19°	34'10°	19°19°	11°49'29"	11°49'29"	21'12"	1°25'27"	27°27'27"	27°57'8°	8°52'0°	5'5"	T 23
F 24	8 13 21	4°13'03"	4°13'03"	10°21'9°	45'18°	32'19°	48'10°	10°25'11°	11°50'29"	21'12"	1°25'27"	27°27'27"	27°54'8°	8°59'0°	5'4"	F 24
S 25	8 17 18	5°14'00"	18°30'11°	35'11°	0°19°	14°20°	2° 2'	10°32'11°	11°51'29"	22'12"	1°24'27°	27°27'27"	27°51'9°	9° 6'	0°53'	S 25
S 26	8 21 14	6°14'56"	2°17'33"	12°50'12°	15'19°	56'20°	16'20°	10°38'11°	11°52'29°	23'12°	1°24'27°	27°25'27°	27°48'9°	9°12'0°	0°52'	S 26
M27	8 25 11	7°15'52"	17° 1'	14° 8'	13°29'20°	39'20°	31'20°	10°45'11°	11°53'29°	24'12°	1°23'27°	27°20'27°	27°45'9°	9°19'0°	0°51'	M27
T 28	8 29 7	8°16'47"	1°17'31"	15°26'14°	44'21°	21°20°	45'10°	10°51'11°	11°54'29°	26'12°	1°23'27°	27°13'27°	27°42'9°	9°26'0°	0°51'	T 28
W29	8 33 4	9°17'40"	16°56'16°	46'15°	59'22°	3°20°	59'20°	10°58'11°	11°55'29°	27'12°	1°23'27°	27°3°27°	27°38'9°	9°32'0°	0°50'	W29
T 30	8 37 1	10°18'33"	2°17'08"	18° 7'	17°14'22°	46'21°	13'11°	11° 5'	11°56'29°	28'12°	1°22'26°	26°52'27°	27°35'9°	9°39'0°	0°49'	T 30
F 31	8 40 57	11°19'25"	17°14'19°	32'18°	28'18°	28'23°	28'21°	11°11'11°	11°57'29°	29'12°	1°22'26°	26°40'27°	27°32'9°	9°46'0°	0°49'	F 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	23 s 3	18 s 31	4 n 41	20 s 14	3 n 15	20 s 56	1 n 14	20 s 32	0 n 10	17 s 16	0 s 48	10 s 16	1 s 53	14 s 48	0 n 25	18 s 18
T 2	22 57	16 24	5 0	20 12	3 17	21 8	1 12	20 41	0 9	17 12	0 48	10 14	1 53	14 49	0 25	18 19
F 3	22 52	13 11	4 58	20 12	3 17	21 20	1 10	20 49	0 9	17 8	0 48	10 12	1 53	14 50	0 25	18 19
S 4	22 46	9 11	4 35	20 13	3 15	21 31	1 7	20 58	0 8	17 4	0 48	10 10	1 53	14 50	0 25	18 19
S 5	22 39	4 46	3 55	20 17	3 11	21 41	1 5	21 6	0 7	17 0	0 48	10 7	1 53	14 51	0 25	18 20
M 6	22 32	0 15	3 3	20 22	3 6	21 51	1 2	21 14	0 7	16 56	0 48	10 5	1 53	14 52	0 25	18 20
T 7	22 25	4 n 8	2 2	20 28	2 59	22 0	1 0	21 22	0 6	16 52	0 48	10 3	1 53	14 52	0 25	18 20
W 8	22 17	8 11	0 57	20 35	2 52	22 9	0 57	21 29	0 5	16 48	0 48	10 1	1 53	14 53	0 25	18 21
T 9	22 8	11 46	0 s 10	20 43	2 44	22 17	0 54	21 37	0 5	16 44	0 48	9 59	1 53	14 54	0 25	18 21
F 10	22 0	14 44	1 14	20 52	2 36	22 24	0 52	21 44	0 4	16 40	0 48	9 57	1 53	14 54	0 25	18 21
S 11	21 50	17 1	2 13	21 2	2 27	22 31	0 49	21 51	0 3	16 36	0 48	9 54	1 52	14 55	0 25	18 22
S 12	21 41	18 31	3 6	21 11	2 17	22 37	0 46	21 58	0 3	16 32	0 48	9 52	1 52	14 55	0 25	18 22
M13	21 31	19 13	3 51	21 21	2 8	22 42	0 44	22 5	0 2	16 27	0 48	9 50	1 52	14 56	0 25	18 22
T 14	21 20	19 3	4 25	21 31	1 58	22 46	0 41	22 11	0 1	16 23	0 48	9 48	1 52	14 56	0 25	18 22
W15	21 10	18 4	4 48	21 41	1 48	22 50	0 38	22 18	0 0	16 19	0 48	9 45	1 52	14 57	0 25	18 23
T 16	20 58	16 17	4 59	21 50	1 38	22 53	0 36	22 24	0 s 0	16 15	0 48	9 43	1 52	14 57	0 25	18 23
F 17	20 47	13 49	4 56	21 59	1 28	22 56	0 33	22 30	0 1	16 11	0 48	9 41	1 52	14 58	0 25	18 23
S 18	20 35	10 44	4 40	22 8	1 18	22 58	0 30	22 35	0 2	16 6	0 48	9 38	1 52	14 58	0 25	18 23
S 19	20 22	7 11	4 11	22 16	1 8	22 59	0 27	22 41	0 3	16 2	0 48	9 36	1 52	14 59	0 25	18 24
M20	20 9	3 17	3 30	22 23	0 59	22 59	0 25	22 46	0 3	15 58	0 48	9 33	1 52	14 59	0 25	18 24
T 21	19 56	0 s 48	2 38	22 29	0 49	22 59	0 22	22 51	0 4	15 53	0 48	9 31	1 52	15 0	0 25	18 24
W22	19 43	4 55	1 38	22 35	0 40	22 58	0 19	22 56	0 5	15 49	0 48	9 29	1 52	15 0	0 25	18 24
T 23	19 29	8 54	0 31	22 40	0 30	22 56	0 16	23 1	0 6	15 44	0 48	9 26	1 52	15 0	0 25	18 25
F 24	19 14	12 33	0 n 39	22 44	0 21	22 54	0 14	23 6	0 6	15 40	0 48	9 24	1 52	15 1	0 25	18 25
S 25	19 0	15 37	1 49	22 46	0 12	22 51	0 11	23 10	0 7	15 35	0 48	9 21	1 51	15 1	0 25	18 25
S 26	18 45	17 52	2 54	22 48	0 4	22 47	0 8	23 14	0 8	15 31	0 48	9 19	1 51	15 1	0 25	18 25
M27	18 29	19 2	3 50	22 49	0 s 5	22 43	0 5	23 18	0 9	15 27	0 48	9 16	1 51	15 2	0 25	18 25
T 28	18 14	18 56	4 32	22 48	0 13	22 37	0 3	23 21	0 9	15 22	0 48	9 13	1 51	15 2	0 25	18 26
W29	17 58	17 31	4 56	22 47	0 21	22 32	0 s 0	23 25	0 10	15 17	0 48	9 11	1 51	15 2	0 25	18 26
T 30	17 41	14 51	5 0	22 44	0 29	22 25	0 3	23 28	0 11	15 13	0 48	9 8	1 51	15 3	0 25	18 26
F 31	17 s 25	11 s 13	4 n 42	22 s 40	0 s 37	22 s 18	0 s 5	23 s 31	0 s 12	15 s 8	0 s 48	9 s 6	1 s 51	15 s 3	0 n 25	18 s 26

Julian Day Number = 2320788.5, Delta T = 48.94 sec
Ecliptic obliquity = 23°29'00", Nutation = 0°00'09", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°44'37", Lahiri = 18°51'37"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1642

geocentric

FEBRUARY 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	8 44 54	12 ²⁰ 15	2 ¹⁸ 5	20 ³⁵ 53	19 ³⁸ 43	24 ²⁷ 11	21 ²² 42	11 ¹⁸ 18	11 ¹⁸ 58	29 ¹⁸ 30	1 ²⁰ R22	26 ²⁰ R30	27 ²⁰ 29	9 ²⁰ 53	0 ²⁰ R48	S 1
S 2	8 48 50	13 ²¹ 04	16 ³³	22 ¹⁷	20 ⁵⁸	24 ⁵³	21 ⁵⁶	11 ²⁵	11 ⁵⁸	29 ³¹	1 ²¹ II21	26 ²⁰ 22	27 ²⁶	9 ⁵⁹	0 ²¹ II48	S 2
M 3	8 52 47	14 ²¹ 51	0 ¹⁷ 33	23 ⁴³	22 ¹³	25 ³⁵	22 ¹¹	11 ³²	11 ⁵⁹	29 ³¹	1 ²¹	26 ¹⁷	27 ²³	10 ⁶	0 ⁴⁸	M 3
T 4	8 56 43	15 ²² 37	14 ⁴	25 ⁹	23 ²⁷	26 ¹⁸	22 ²⁵	11 ³⁹	12 ⁰	29 ³²	1 ²¹	26 ¹⁵	27 ¹⁹	10 ¹³	0 ⁴⁸	T 4
W 5	9 0 40	16 ²³ 21	27 ⁶	26 ³⁷	24 ⁴²	27 ¹	22 ⁴⁰	11 ⁴⁶	12 ⁰	29 ³³	1 ²¹	26 ¹⁴	27 ¹⁶	10 ¹⁹	0 ⁴⁷	W 5
T 6	9 4 36	17 ²⁴ 03	9 ²⁸ 45	28 ⁵	25 ⁵⁷	27 ⁴³	22 ⁵⁴	11 ⁵²	12 ¹	29 ³⁴	1 ²¹	26 ¹⁴	27 ¹³	10 ²⁶	0 ⁴⁷	T 6
F 7	9 8 33	18 ²⁴ 44	22 ³	29 ³⁴	27 ¹¹	28 ²⁶	23 ⁸	11 ⁵⁹	12 ¹	29 ³⁵	1 ²⁰	26 ¹⁵	27 ¹⁰	10 ³³	0 ⁴⁷	F 7
S 8	9 12 30	19 ²⁵ 24	4 ¹¹ 7	1 ²⁸ 4	28 ²⁶	29 ⁸	23 ²³	12 ⁶	12 ²	29 ³⁵	1 ²⁰	26 ¹³	27 ⁷	10 ⁴⁰	0 ⁴⁷	S 8
S 9	9 16 26	20 ²⁶ 01	16 ³	2 ³⁶	29 ⁴¹	29 ⁵¹	23 ³⁷	12 ¹³	12 ²	29 ³⁶	1 ²⁰	26 ¹⁰	27 ³	10 ⁴⁶	0 ⁴⁸	S 9
M10	9 20 23	21 ²⁶ 37	27 ⁵³	4 ⁸	0 ²⁸ 56	0 ²⁸ 33	23 ⁵²	12 ²⁰	12 ²	29 ³⁷	1 ²⁰	26 ⁴	27 ⁰	10 ⁵³	0 ⁴⁸	M10
T 11	9 24 19	22 ²⁷ 11	9 ²⁸ 44	5 ⁴¹	2 ¹⁰	1 ¹⁶	24 ⁶	12 ²⁸	12 ³	29 ³⁸	1 ²⁰	25 ⁵⁶	26 ⁵⁷	11 ⁰	0 ⁴⁸	T 11
W12	9 28 16	23 ²⁷ 44	21 ³⁷	7 ¹⁴	3 ²⁵	1 ⁵⁹	24 ²¹	12 ³⁵	12 ³	29 ³⁸	1 ²⁰	25 ⁴⁵	26 ⁵⁴	11 ⁷	0 ⁴⁸	W12
T 13	9 32 12	24 ²⁸ 14	3 ²⁸ 36	8 ⁴⁹	4 ⁴⁰	2 ⁴²	24 ³⁵	12 ⁴²	12 ³	29 ³⁹	1 ²⁰	25 ³³	26 ⁵¹	11 ¹³	0 ⁴⁹	T 13
F 14	9 36 9	25 ²⁸ 43	15 ⁴³	10 ²⁵	5 ⁵⁴	3 ²⁴	24 ⁴⁹	12 ⁴⁹	12 ³	29 ³⁹	1 ²⁰ D20	25 ²¹	26 ⁴⁸	11 ²⁰	0 ⁴⁹	F 14
S 15	9 40 5	26 ²⁹ 11	27 ⁵⁸	12 ¹	7 ⁹	4 ⁷	25 ⁴	12 ⁵⁶	12 ³	29 ⁴⁰	1 ²⁰	25 ¹⁰	26 ⁴⁴	11 ²⁷	0 ⁵⁰	S 15
S 16	9 44 2	27 ²⁹ 36	10 ²⁸ 22	13 ³⁹	8 ²⁴	4 ⁵⁰	25 ¹⁸	13 ³	12 ³	29 ⁴⁰	1 ²⁰	25 ⁰	26 ⁴¹	11 ³³	0 ⁵¹	S 16
M17	9 47 59	28 ³⁰ 01	22 ⁵⁶	15 ¹⁷	9 ³⁸	5 ³³	25 ³³	13 ¹⁰	12 ³	29 ⁴¹	1 ²⁰	24 ⁵³	26 ³⁸	11 ⁴⁰	0 ⁵²	M17
T 18	9 51 55	29 ³⁰ 23	5 ²⁰ 40	16 ⁵⁷	10 ⁵³	6 ¹⁶	25 ⁴⁷	13 ¹⁸	12 ³	29 ⁴¹	1 ²⁰	24 ⁴⁹	26 ³⁵	11 ⁴⁷	0 ⁵²	T 18
W19	9 55 52	0 ²⁸ 30 ⁴⁴	18 ³⁶	18 ³⁷	12 ⁸	6 ⁵⁸	26 ²	13 ²⁵	12 ³	29 ⁴¹	1 ²⁰	24 ⁴⁷	26 ³²	11 ⁵⁴	0 ⁵³	W19
T 20	9 59 48	1 ³¹ 04	1 ²⁸ 44	20 ¹⁸	13 ²²	7 ⁴¹	26 ¹⁶	13 ³²	12 ²	29 ⁴²	1 ²⁰	24 ⁴⁷	26 ²⁸	12 ⁰	0 ⁵⁴	T 20
F 21	10 3 45	2 ³² 21	15 ⁶	22 ¹	14 ³⁷	8 ²⁴	26 ³⁰	13 ⁴⁰	12 ²	29 ⁴²	1 ²¹	24 ⁴⁸	26 ²⁵	12 ⁷	0 ⁵⁵	F 21
S 22	10 7 41	3 ³¹ 38	28 ⁴⁵	23 ⁴⁴	15 ⁵²	9 ⁷	26 ⁴⁵	13 ⁴⁷	12 ²	29 ⁴²	1 ²¹	24 ⁴⁹	26 ²²	12 ¹⁴	0 ⁵⁶	S 22
S 23	10 11 38	4 ³¹ 54	12 ²⁷ 41	25 ²⁹	17 ⁶	9 ⁵⁰	26 ⁵⁹	13 ⁵⁴	12 ¹	29 ⁴³	1 ²¹	24 ⁴⁹	26 ¹⁹	12 ²⁰	0 ⁵⁸	S 23
M24	10 15 34	5 ³² 08	26 ⁵⁴	27 ¹⁴	18 ²¹	10 ³³	27 ¹⁴	14 ¹	12 ¹	29 ⁴³	1 ²¹	24 ⁴⁷	26 ¹⁶	12 ²⁷	0 ⁵⁹	M24
T 25	10 19 31	6 ³² 20	11 ²³ 23	29 ⁰	19 ³⁶	11 ¹⁶	27 ²⁸	14 ⁹	12 ⁰	29 ⁴³	1 ²¹	24 ⁴³	26 ¹³	12 ³⁴	1 ⁰	T 25
W26	10 23 28	7 ³² 31	26 ³	0 ²⁸ 48	20 ⁵⁰	11 ⁵⁹	27 ⁴²	14 ¹⁶	12 ⁰	29 ⁴³	1 ²²	24 ³⁷	26 ⁹	12 ⁴¹	1 ²	W26
T 27	10 27 24	8 ³² 40	10 ²⁸ 50	2 ³⁷	22 ⁵	12 ⁴²	27 ⁵⁷	14 ²³	11 ⁵⁹	29 ⁴³	1 ²²	24 ³⁰	26 ⁶	12 ⁴⁷	1 ³	T 27
F 28	10 31 21	9 ³² 47	25 ²⁸ 34	4 ²⁶	23 ²⁰	13 ²⁵	28 ²⁸ 11	14 ²⁸ 31	11 ⁵⁸	29 ⁴³	1 ²² II22	24 ²²	26 ² 3	12 ²⁸ 54	1 ² II5	F 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	17s 8	6s56	4n 5	22s35	0s44	22s10	0s 8	23s34	0s13	15s 4	0s48	9s 3	1s51	15s 3	0n25	18s26	1n41	8n44	11s58	10s15	10s36	18n13	16n 2	4s25	
S 2	16 51	2 20	3 14	22 28	0 51	22 1	0 11	23 36	0 13	14 59	0 48	9 0	1 51	15 3	0 25	18 26	1 41	8 44	11 58	10 12	10 35	18 13	16 2	4 25	
M 3	16 33	2n14	2 12	22 21	0 58	21 52	0 13	23 39	0 14	14 55	0 49	8 58	1 51	15 3	0 25	18 27	1 41	8 45	11 58	10 10	10 33	18 12	16 2	4 25	
T 4	16 15	6 33	1 4	22 12	1 4	21 42	0 16	23 41	0 15	14 50	0 49	8 55	1 51	15 4	0 25	18 27	1 41	8 45	11 57	10 9	10 32	18 11	16 2	4 25	
W 5	15 57	10 23	0s 5	22 2	1 11	21 32	0 18	23 43	0 16	14 45	0 49	8 52	1 51	15 4	0 25	18 27	1 41	8 45	11 57	10 9	10 31	18 10	16 2	4 24	
T 6	15 39	13 38	1 11	21 50	1 17	21 21	0 21	23 44	0 17	14 41	0 49	8 50	1 51	15 4	0 25	18 27	1 41	8 45	11 57	10 9	10 30	18 10	16 3	4 24	
F 7	15 20	16 11	2 13	21 37	1 22	21 9	0 24	23 46	0 17	14 36	0 49	8 47	1 51	15 4	0 25	18 27	1 41	8 46	11 57	10 9	10 29	18 9	16 3	4 24	
S 8	15 1	17 57	3 7	21 23	1 28	20 56	0 26	23 47	0 18	14 31	0 49	8 44	1 51	15 4	0 25	18 27	1 41	8 46	11 56	10 8	10 28	18 8	16 3	4 24	
S 9	14 42	18 54	3 53	21 7	1 33	20 43	0 28	23 48	0 19	14 26	0 49	8 42	1 51	15 4	0 26	18 27	1 41	8 46	11 56	10 7	10 27	18 7	16 3	4 24	
M10	14 23	19 0	4 28	20 50	1 38	20 29	0 31	23 49	0 20	14 22	0 49	8 39	1 51	15 4	0 26	18 27	1 41	8 46	11 56	10 5	10 25	18 7	16 4	4 23	
T 11	14 3	18 17	4 51	20 32	1 42	20 15	0 33	23 49	0 21	14 17	0 49	8 36	1 51	15 4	0 26	18 27	1 41	8 47	11 55	10 2	10 24	18 6	16 4	4 23	
W12	13 43	16 46	5 2	20 12	1 46	20 0	0 36	23 50	0 22	14 12	0 49	8 33	1 51	15 4	0 26	18 28	1 41	8 47	11 55	9 58	10 23	18 5	16 4	4 23	
T 13	13 23	14 31	5 0	19 51	1 50	19 45	0 38	23 50	0 23	14 7	0 49	8 31	1 51	15 4	0 26	18 28	1 41	8 47	11 55	9 54	10 22	18 4	16 4	4 23	
F 14	13 3	11 37	4 44	19 29	1 53	19 29	0 40	23 50	0 23	14 3	0 49	8 28	1 51	15 4	0 26	18 28	1 41	8 47	11 55	9 49	10 21	18 3	16 5	4 22	
S 15	12 43	8 12	4 16	19 5	1 56	19 12	0 42	23 49	0 24	13 58	0 49	8 25	1 51	15 4	0 26	18 28	1 42	8 48	11 54	9 45	10 20	18 3	16 5	4 22	
S 16	12 12	4 23	3 34	18 40	1 59	18 55	0 45	23 49	0 25	13 53	0 49	8 22	1 51	15 4	0 26	18 28	1 42	8 48	11 54	9 42	10 19	18 2	16 5	4 22	
M17	12 1	0 20	2 42	18 13	2 2	18 37	0 47	23 48	0 26	13 48	0 49	8 20	1 51	15 4	0 26	18 28	1 42	8 48	11 54	9 39	10 17	18 1	16 6	4 22	
T 18	11 40	3s48	1 41	17 45	2 4	18 19	0 49	23 47	0 27	13 43	0 49	8 17	1 51	15 4	0 26	18 28	1 42	8 49	11 53	9 38	10 16	18 0	16 6	4 22	
W19	11 19	7 49	0 33	17 15	2 5	18 0	0 51	23 46	0 28	13 39	0 50	8 14	1 51	15 4	0 26	18 28	1 42	8 49	11 53	9 37	10 15	17 59	16 7	4 21	
T 20	10 57	11 31	0n37	16 45	2 6	17 41	0 53	23 44	0 29	13 34	0 50	8 11	1 51	15 4	0 26	18 28	1 42	8 49	11 53	9 37	10 14	17 59	16 7	4 21	
F 21	10 36	14 41	1 47	16 12	2 7	17 21	0 55	23 43	0 30	13 29	0 50	8 8	1 51	15 4	0 26	18 28	1 42	8 50	11 53	9 37	10 13	17 58	16 7	4 21	
S 22	10 14	17 7	2 52	15 38	2 8	17 1	0 57	23 41	0 30	13 24	0 50	8 6	1 51	15 4	0 26	18 28	1 42	8 50	11 52	9 38	10 12	17 57	16 8	4 21	
S 23	9 52	18 35	3 49	15 3	2 8	16 40	0 59	23 38	0 31	13 19	0 50	8 3	1 51	15 4	0 26	18 28	1 42	8 50	11 52	9 38	10 11	17 56	16 8	4 20	
M24	9 30	18 55	4 32	14 27	2 7	16 19	1 0	23 36	0 32	13 14	0 50	8 0	1 51	15 4	0 26	18 28	1 42	8 51	11 52	9 37	10 9	17 55	16 9	4 20	
T 25	9 8	18 1	4 59	13 49	2 6	15 57	1 2	23 33	0 33	13 9	0 50	7 57	1 51	15 3	0 26	18 28	1 42	8 51	11 51	9 35	10 8	17 55	16 9	4 20	
W26	8 45	15 56	5 7	13 9	2 5	15 35	1 4	23 31	0 34	13 5	0 50	7 54	1 51	15 3	0 26	18 28	1 42	8 51	11 51	9 33	10 7	17 54	16 10	4 20	
T 27	8 23	12 49	4 55	12 28	2 3	15 12	1 6	23 32	0 35	13 0	0 50	7 52	1 51	15 3	0 26	18 28	1 42	8 52	11 51	9 31	10 6	17 53	16 10	4 20	
F 28	8s 0	8s53	4n24	11s46	2s 1	14s49	1s 7	23s24	0s36	12s55	0s50	7s49	1s51	15s 3	0n26	18s28	1n42	8n52	11s51	9s28	10s 5	17n52	16n11	4s19	

ASTRODIENST EPHEMERIS for the year 1642

geocentric

MARCH 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	10 35 17	10 ^h 32'52"	10 ^h 9'	6 ^h 17'	24 ^h 34'	14 ^h 9'	28 ^h 25'	14 ^h 38'	11 ^h 58'	29 ^h 43'	1 ^h 23'	24 ^h R16	26 ^h 0'	13 ^h 5'	1 ^h 6'	S 1
S 2	10 39 14	11°32'56"	24°26'	8° 9'	25°49'	14°52'	28°40'	14°46'	11 ^h 57'	29°R43	1°23'	24 ^h 11'	25°57'	13° 7'	1° 8'	S 2
M 3	10 43 10	12°32'57"	8 ^h 22'	10° 2'	27° 4'	15°35'	28°54'	14°53'	11°56'	29°43'	1°23'	24° 7'	25°54'	13°14'	1°10'	M 3
T 4	10 47 7	13°32'57"	21°53'	11°55'	28°18'	16°18'	29° 8'	15° 0'	11°55'	29°43'	1°24'	24°D 6'	25°50'	13°21'	1°12'	T 4
W 5	10 51 3	14°32'54"	4 ^h 59'	13°50'	29°33'	17° 1'	29°22'	15° 8'	11°54'	29°43'	1°24'	24° 7'	25°47'	13°28'	1°14'	W 5
T 6	10 55 0	15°32'50"	17°42'	15°46'	0 ^h 47'	17°44'	29°37'	15°15'	11°53'	29°43'	1°24'	24° 8'	25°44'	13°34'	1°15'	T 6
F 7	10 58 56	16°32'43"	0 ^h 11'	17°43'	2° 2'	18°28'	29°51'	15°22'	11°52'	29°43'	1°25'	24°10'	25°41'	13°41'	1°18'	F 7
S 8	11 2 53	17°32'34"	12°13'	19°40'	3°17'	19°11'	0 ^h 5'	15°30'	11°51'	29°43'	1°25'	24°R11'	25°38'	13°48'	1°20'	S 8
S 9	11 6 50	18°32'22"	24°11'	21°38'	4°31'	19°54'	0°19'	15°37'	11°50'	29°42'	1°26'	24°11'	25°34'	13°54'	1°22'	S 9
M10	11 10 46	19°32'09"	6 ^h 3'	23°37'	5°46'	20°37'	0°33'	15°45'	11°49'	29°42'	1°26'	24° 9'	25°31'	14° 1'	1°24'	M10
T 11	11 14 43	20°31'53"	17°55'	25°36'	7° 0'	21°21'	0°47'	15°52'	11°47'	29°42'	1°27'	24° 6'	25°28'	14° 8'	1°26'	T 11
W12	11 18 39	21°31'35"	29°51'	27°36'	8°15'	22° 4'	1° 1'	15°59'	11°46'	29°42'	1°27'	24° 2'	25°25'	14°15'	1°29'	W12
T 13	11 22 36	22°31'14"	11 ^h 15'	29°36'	9°29'	22°47'	1°15'	16° 7'	11°45'	29°41'	1°28'	23°57'	25°22'	14°21'	1°31'	T 13
F 14	11 26 32	23°30'52"	24° 7'	1 ^h 35'	10°44'	23°31'	1°29'	16°14'	11°44'	29°41'	1°29'	23°51'	25°19'	14°28'	1°34'	F 14
S 15	11 30 29	24°30'27"	6 ^h 33'	3°34'	11°58'	24°14'	1°43'	16°21'	11°42'	29°40'	1°29'	23°46'	25°15'	14°35'	1°36'	S 15
S 16	11 34 25	25°30'00"	19°11'	5°33'	13°13'	24°57'	1°57'	16°29'	11°41'	29°40'	1°30'	23°42'	25°12'	14°42'	1°39'	S 16
M17	11 38 22	26°29'31"	2 ^h 3'	7°30'	14°27'	25°41'	2°11'	16°36'	11°39'	29°39'	1°31'	23°39'	25° 9'	14°48'	1°42'	M17
T 18	11 42 19	27°29'00"	15° 9'	9°26'	15°42'	26°24'	2°24'	16°43'	11°38'	29°39'	1°31'	23°37'	25° 6'	14°55'	1°44'	T 18
W19	11 46 15	28°28'27"	28°27'	11°20'	16°56'	27° 8'	2°38'	16°51'	11°36'	29°38'	1°32'	23°D37'	25° 3'	15° 2'	1°47'	W19
T 20	11 50 12	29°27'52"	11 ^h 18'	13°12'	18°11'	27°51'	2°52'	16°58'	11°34'	29°38'	1°33'	23°38'	25° 0'	15° 8'	1°50'	T 20
F 21	11 54 8	0 ^h 27'15"	25°39'	15° 1'	19°25'	28°34'	3° 5'	17° 5'	11°33'	29°37'	1°33'	23°39'	24°56'	15°15'	1°53'	F 21
S 22	11 58 5	1°26'37"	9 ^h 31'	16°47'	20°40'	29°18'	3°19'	17°12'	11°31'	29°37'	1°34'	23°41'	24°53'	15°22'	1°56'	S 22
S 23	12 2 1	2°25'56"	23°32'	18°30'	21°54'	0 ^h 1'	3°33'	17°20'	11°29'	29°36'	1°35'	23°42'	24°50'	15°29'	1°59'	S 23
M24	12 5 58	3°25'14"	7 ^h 34'	20° 8'	23° 8'	0°45'	3°46'	17°27'	11°28'	29°35'	1°36'	23°R42'	24°47'	15°35'	2° 2'	M24
T 25	12 9 54	4°24'31"	21°57'	21°43'	24°23'	1°28'	4° 0'	17°34'	11°26'	29°34'	1°36'	23°41'	24°44'	15°42'	2° 5'	T 25
W26	12 13 51	5°23'45"	6 ^h 16'	23°13'	25°37'	2°12'	4°13'	17°41'	11°24'	29°34'	1°37'	23°39'	24°40'	15°49'	2° 8'	W26
T 27	12 17 48	6°22'58"	20°36'	24°37'	26°52'	2°56'	4°26'	17°48'	11°22'	29°33'	1°38'	23°37'	24°37'	15°55'	2°12'	T 27
F 28	12 21 44	7°22'09"	4 ^h 51'	25°57'	28° 6'	3°39'	4°40'	17°55'	11°20'	29°32'	1°39'	23°35'	24°34'	16° 2'	2°15'	F 28
S 29	12 25 41	8°21'17"	18°57'	27°11'	29°20'	4°23'	4°53'	18° 3'	11°18'	29°31'	1°40'	23°33'	24°31'	16° 9'	2°18'	S 29
S 30	12 29 37	9°20'24"	2 ^h 51'	28°19'	0 ^h 35'	5° 6'	5° 6'	18°10'	11°16'	29°30'	1°41'	23°32'	24°28'	16°16'	2°22'	S 30
M31	12 33 34	10 ^h 19'29"	16 ^h 29'	29 ^h 21'	1 ^h 49'	5 ^h 50'	5 ^h 19'	18 ^h 17'	11 ^h 14'	29 ^h 29'	1 ^h 42'	23 ^h 31'	24 ^h 25'	16 ^h 22'	2 ^h 25'	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	7s38	4s28	3n35	11s 3	1s58	14s26	1s 9	23s21	0s37	12s50	0s50	7s46	1s51	15s 3	0n26	18s28
S 2	7 15	0n 8	2 34	10 18	1 54	14 2	1 10	23 17	0 38	12 45	0 51	7 43	1 51	15 2	0 26	18 28
M 3	6 52	4 37	1 24	9 32	1 50	13 38	1 12	23 13	0 39	12 40	0 51	7 40	1 51	15 2	0 26	18 28
T 4	6 29	8 44	0 12	8 44	1 46	13 14	1 13	23 9	0 40	12 35	0 51	7 37	1 51	15 2	0 26	18 28
W 5	6 6	12 17	0s59	7 55	1 41	12 49	1 14	23 4	0 41	12 30	0 51	7 35	1 51	15 1	0 26	18 28
T 6	5 42	15 9	2 5	7 5	1 35	12 23	1 16	23 0	0 42	12 25	0 51	7 32	1 51	15 1	0 26	18 27
F 7	5 19	17 13	3 3	6 14	1 29	11 58	1 17	22 55	0 43	12 21	0 51	7 29	1 51	15 1	0 26	18 27
S 8	4 56	18 28	3 52	5 22	1 23	11 32	1 18	22 50	0 44	12 16	0 51	7 26	1 51	15 0	0 26	18 27
S 9	4 32	18 51	4 30	4 29	1 15	11 6	1 19	22 44	0 45	12 11	0 51	7 23	1 51	15 0	0 26	18 27
M10	4 9	18 25	4 56	3 34	1 8	10 39	1 20	22 39	0 46	12 6	0 51	7 20	1 51	15 0	0 26	18 27
T 11	3 46	17 10	5 10	2 39	0 59	10 12	1 21	22 33	0 47	12 1	0 51	7 18	1 51	14 59	0 26	18 27
W12	3 22	15 10	5 10	1 44	0 50	9 45	1 22	22 27	0 48	11 56	0 52	7 15	1 51	14 59	0 26	18 27
T 13	2 58	12 30	4 57	0 47	0 41	9 18	1 23	22 21	0 48	11 51	0 52	7 12	1 51	14 59	0 26	18 27
F 14	2 35	9 16	4 30	0n 9	0 31	8 51	1 23	22 15	0 49	11 46	0 52	7 9	1 52	14 58	0 26	18 27
S 15	2 11	5 34	3 50	1 6	0 21	8 23	1 24	22 8	0 50	11 42	0 52	7 6	1 52	14 58	0 26	18 26
S 16	1 48	1 34	2 58	2 3	0 10	7 55	1 25	22 1	0 51	11 37	0 52	7 4	1 52	14 57	0 26	18 26
M17	1 24	2s35	1 56	3 0	0n 1	7 26	1 25	21 54	0 52	11 32	0 52	7 1	1 52	14 57	0 26	18 26
T 18	1 0	6 41	0 46	3 57	0 13	6 58	1 26	21 47	0 53	11 27	0 52	6 58	1 52	14 56	0 26	18 26
W19	0 36	10 32	0n27	4 52	0 25	6 29	1 26	21 40	0 54	11 22	0 52	6 55	1 52	14 56	0 26	18 26
T 20	0 13	13 53	1 39	5 47	0 37	6 1	1 27	21 32	0 55	11 17	0 52	6 52	1 52	14 55	0 26	18 26
F 21	0n11	16 30	2 47	6 41	0 49	5 32	1 27	21 24	0 56	11 12	0 53	6 50	1 52	14 55	0 26	18 25
S 22	0 35	18 11	3 46	7 33	1 1	5 3	1 27	21 16	0 57	11 8	0 53	6 47	1 52	14 54	0 26	18 25
S 23	0 58	18 47	4 33	8 24	1 13	4 33	1 27	21 8	0 59	11 3	0 53	6 44	1 52	14 54	0 26	18 25
M24	1 22	18 13	5 3	9 12	1 25	4 4	1 27	21 0	1 0	10 58	0 53	6 41	1 52	14 53	0 26	18 25
T 25	1 45	16 30	5 15	9 59	1 37	3 34	1 27	20 51	1 1	10 53	0 53	6 39	1 52	14 53	0 26	18 25
W26	2 9	13 46	5 8	10 43	1 49	3 5	1 27	20 42	1 2	10 49	0 53	6 36	1 52	14 52	0 26	18 24
T 27	2 32	10 12	4 41	11 25	2 0	2 35	1 27	20 33	1 3	10 44	0 53	6 33	1 53	14 51	0 26	18 24
F 28	2 56	6 4	3 57	12 4	2 10	2 5	1 27	20 24	1 4	10 39	0 54	6 31	1 53	14 51	0 26	18 24
S 29	3 19	1 38	3 0	12 40	2 20	1 36	1 27	20 15	1 5	10 34	0 54	6 28	1 53	14 50	0 26	18 24
S 30	3 42	2n51	1 52	13 13	2 29	1 6	1 27	20 5	1 6	10 30	0 54	6 25	1 53	14 50	0 26	18 24
M31	4n 6	7n 5	0n39	13n43	2n38	0s36	1s26	19s56	1s 7	10s25	0s54	6s23	1s53	14s49	0n26	18s23

Julian Day Number = 2320847.5, Delta T = 48.83 sec
 Ecliptic obliquity = 23°29'01", Nutation = 0°00'09", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°44'45", Lahiri = 18°51'45"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1642

geocentric

APRIL 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	12 37 30	11°18'32	29°48	08°17	3°17	6°33	5°32	18°24	11°12	29°29	1°42	23°D31	24°21	16°29	2°11	T 1
W 2	12 41 27	12°17'32	12°47	1° 7	4°18	7°17	5°45	18°31	11°10	29°28	1°43	23°D31	24°18	16°36	2°32	W 2
T 3	12 45 23	13°16'31	25°28	1°50	5°32	8° 0	5°58	18°38	11° 8	29°27	1°44	23°32	24°15	16°43	2°36	T 3
F 4	12 49 20	14°15'27	7°15	2°26	6°46	8°44	6°11	18°45	11° 6	29°26	1°45	23°33	24°12	16°49	2°40	F 4
S 5	12 53 16	15°14'21	20° 3	2°56	8° 1	9°28	6°24	18°51	11° 4	29°25	1°46	23°34	24° 9	16°56	2°43	S 5
S 6	12 57 13	16°13'13	2°3	3°19	9°15	10°11	6°37	18°58	11° 1	29°24	1°47	23°35	24° 5	17° 3	2°47	S 6
M 7	13 1 10	17°12'03	13°57	3°36	10°29	10°55	6°49	19° 5	10°59	29°22	1°48	23°R35	24° 2	17° 9	2°51	M 7
T 8	13 5 6	18°10'50	25°50	3°46	11°43	11°38	7° 2	19°12	10°57	29°21	1°49	23°35	23°59	17°16	2°55	T 8
W 9	13 9 3	19° 9'35	7°47	3°R50	12°58	12°22	7°15	19°19	10°55	29°20	1°50	23°35	23°56	17°23	2°59	W 9
T 10	13 12 59	20° 8'17	19°51	3°47	14°12	13° 6	7°27	19°25	10°52	29°19	1°51	23°34	23°53	17°30	3° 3	T 10
F 11	13 16 56	21° 6'58	2°17	3°39	15°26	13°49	7°39	19°32	10°50	29°18	1°52	23°34	23°50	17°36	3° 7	F 11
S 12	13 20 52	22° 5'36	14°39	3°24	16°40	14°33	7°52	19°39	10°48	29°17	1°53	23°34	23°46	17°43	3°11	S 12
S 13	13 24 49	23° 4'12	27°28	3° 5	17°54	15°16	8° 4	19°45	10°45	29°16	1°55	23°34	23°43	17°50	3°15	S 13
M14	13 28 45	24° 2'46	10°36	2°40	19° 8	16° 0	8°16	19°52	10°43	29°14	1°56	23°D34	23°40	17°56	3°19	M14
T 15	13 32 42	25° 1'18	24° 2	2°12	20°23	16°44	8°28	19°58	10°41	29°13	1°57	23°R34	23°37	18° 3	3°23	T 15
W16	13 36 39	25°59'48	7°45	1°39	21°37	17°27	8°40	20° 5	10°38	29°12	1°58	23°34	23°34	18°10	3°27	W16
T 17	13 40 35	26°58'16	21°43	1° 4	22°51	18°11	8°52	20°11	10°36	29°10	1°59	23°33	23°31	18°17	3°31	T 17
F 18	13 44 32	27°56'43	5°52	0°26	24° 5	18°54	9° 4	20°18	10°33	29° 9	2° 0	23°33	23°27	18°23	3°36	F 18
S 19	13 48 28	28°55'08	20° 8	29°46	25°19	19°38	9°16	20°24	10°31	29° 8	2° 1	23°32	23°24	18°30	3°40	S 19
S 20	13 52 25	29°53'31	4°27	29° 5	26°33	20°22	9°28	20°30	10°28	29° 6	2° 3	23°32	23°21	18°37	3°44	S 20
M21	13 56 21	08°51'53	18°46	28°25	27°47	21° 5	9°39	20°37	10°26	29° 5	2° 4	23°31	23°18	18°44	3°49	M21
T 22	14 0 18	1°50'13	3° 0	27°45	29° 1	21°49	9°51	20°43	10°23	29° 4	2° 5	23°D31	23°15	18°50	3°53	T 22
W23	14 4 14	2°48'31	17° 8	27° 6	08°15	22°32	10° 2	20°49	10°21	29° 2	2° 6	23°32	23°11	18°57	3°58	W23
T 24	14 8 11	3°46'48	1° 8	26°29	1°29	23°16	10°13	20°55	10°18	29° 1	2° 7	23°32	23° 8	19° 4	4° 2	T 24
F 25	14 12 8	4°45'04	14°58	25°54	2°43	23°59	10°25	21° 1	10°16	28°59	2° 9	23°33	23° 5	19°10	4° 7	F 25
S 26	14 16 4	5°43'18	28°36	25°23	3°57	24°43	10°36	21° 7	10°13	28°58	2°10	23°34	23° 2	19°17	4°11	S 26
S 27	14 20 1	6°41'30	12°13	24°55	5°11	25°27	10°47	21°13	10°11	28°57	2°11	23°35	22°59	19°24	4°16	S 27
M28	14 23 57	7°39'40	25°16	24°31	6°25	26°10	10°58	21°19	10° 8	28°55	2°12	23°R35	22°56	19°31	4°20	M28
T 29	14 27 54	8°37'49	8°16	24°11	7°39	26°54	11° 9	21°25	10° 6	28°54	2°14	23°35	22°52	19°37	4°25	T 29
W30	14 31 50	9°35'57	21°18	23°56	8°53	27°37	11°19	21°30	10° 3	28°52	2°15	23°33	22°49	19°34	4°29	W30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	4n29	10n53	0s35	14n10	2n45	0s 6	1s26	19s46	1s 8	10s20	0s54	6s20	1s53	14s48	0n26	T 1
W 2	4 52	14 3	1 45	14 34	2 52	0n24	1 25	19 36	1 9	10 16	0 54	6 17	1 53	14 48	0 26	W 2
T 3	5 15	16 27	2 48	14 54	2 57	0 54	1 25	19 25	1 10	10 11	0 54	6 15	1 53	14 47	0 26	T 3
F 4	5 38	18 1	3 42	15 11	3 2	1 24	1 24	19 15	1 11	10 6	0 55	6 12	1 53	14 46	0 26	F 4
S 5	6 1	18 43	4 24	15 25	3 5	1 54	1 24	19 4	1 12	10 2	0 55	6 9	1 54	14 46	0 26	S 5
S 6	6 23	18 33	4 55	15 35	3 7	2 24	1 23	18 54	1 13	9 57	0 55	6 7	1 54	14 45	0 26	S 6
M 7	6 46	17 34	5 12	15 41	3 8	2 54	1 22	18 43	1 14	9 53	0 55	6 4	1 54	14 44	0 26	M 7
T 8	7 9	15 50	5 17	15 44	3 7	3 24	1 21	18 32	1 15	9 48	0 55	6 2	1 54	14 44	0 26	T 8
W 9	7 31	13 24	5 7	15 43	3 5	3 54	1 20	18 21	1 16	9 43	0 55	5 59	1 54	14 43	0 26	W 9
T 10	7 53	10 23	4 44	15 39	3 2	4 23	1 20	18 9	1 17	9 39	0 56	5 57	1 54	14 42	0 26	T 10
F 11	8 15	6 52	4 8	15 32	2 57	4 53	1 18	17 58	1 18	9 34	0 56	5 54	1 54	14 41	0 26	F 11
S 12	8 37	2 59	3 19	15 21	2 51	5 22	1 17	17 46	1 19	9 30	0 56	5 52	1 54	14 41	0 26	S 12
S 13	8 59	1s 8	2 20	15 7	2 43	5 52	1 16	17 34	1 21	9 26	0 56	5 49	1 55	14 40	0 26	S 13
M14	9 21	5 18	1 11	14 50	2 34	6 21	1 15	17 22	1 22	9 21	0 56	5 47	1 55	14 39	0 26	M14
T 15	9 42	9 18	0n 3	14 30	2 24	6 50	1 14	17 10	1 23	9 17	0 56	5 44	1 55	14 38	0 26	T 15
W16	10 4	12 54	1 18	14 8	2 12	7 19	1 13	16 58	1 24	9 12	0 57	5 42	1 55	14 38	0 26	W16
T 17	10 25	15 49	2 30	13 43	1 59	7 48	1 11	16 45	1 25	9 8	0 57	5 39	1 55	14 37	0 26	T 17
F 18	10 46	17 49	3 34	13 17	1 45	8 17	1 10	16 33	1 26	9 4	0 57	5 37	1 55	14 36	0 26	F 18
S 19	11 7	18 43	4 25	12 49	1 30	8 45	1 8	16 20	1 27	9 0	0 57	5 35	1 55	14 35	0 26	S 19
S 20	11 27	18 25	4 59	12 20	1 14	9 13	1 7	16 7	1 28	8 55	0 57	5 32	1 56	14 35	0 26	S 20
M21	11 48	16 57	5 16	11 50	0 58	9 41	1 5	15 54	1 29	8 51	0 58	5 30	1 56	14 34	0 26	M21
T 22	12 8	14 27	5 12	11 20	0 41	10 9	1 4	15 41	1 30	8 47	0 58	5 28	1 56	14 33	0 26	T 22
W23	12 28	11 7	4 50	10 50	0 24	10 37	1 2	15 28	1 31	8 43	0 58	5 26	1 56	14 32	0 26	W23
T 24	12 48	7 11	4 11	10 20	0 7	11 4	1 0	15 14	1 32	8 39	0 58	5 23	1 56	14 32	0 26	T 24
F 25	13 8	2 54	3 18	9 52	0s10	11 31	0 59	15 1	1 33	8 35	0 58	5 21	1 56	14 31	0 26	F 25
S 26	13 27	1n30	2 14	9 25	0 27	11 58	0 57	14 47	1 34	8 31	0 58	5 19	1 57	14 30	0 26	S 26
S 27	13 46	5 45	1 3	8 59	0 44	12 25	0 55	14 34	1 36	8 27	0 59	5 17	1 57	14 29	0 26	S 27
M28	14 5	9 39	0s 9	8 36	0 59	12 51	0 53	14 20	1 37	8 23	0 59	5 14	1 57	14 28	0 26	M28
T 29	14 24	13 1	1 20	8 14	1 15	13 17	0 51	14 6	1 38	8 19	0 59	5 12	1 57	14 28	0 26	T 29
W30	14n43	15n42	2s26	7n55	1s30	13n42	0s49	13s52	1s39	8s15	0s59	5s10	1s57	14s27	0n26	W30

Julian Day Number = 2320878.5, Delta T = 48.77 sec

Ecliptic obliquity = 23°29'01, Nutation = 0°00'07, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°44'49, Lahiri = 18°51'49Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1642

geocentric

MAY 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 35 47	10♂34'02	3♂33	23°R45	10♂ 7	28≈20	11♂30	21♂36	10°R 1	28°R51	2♂16	23°R31	22♂46	19♂51	4♂34	T 1
F 2	14 39 43	11°32'06	15°51	23°Y39	11°21	29° 4	11°41	21°42	9♂58	28♂49	2°17	23♂29	22°43	19°57	4°39	F 2
S 3	14 43 40	12°30'08	27°59	23°D37	12°35	29°47	11°51	21°47	9°56	28°47	2°19	23°26	22°40	20° 4	4°43	S 3
S 4	14 47 37	13°28'09	9♂59	23°40	13°49	0♂31	12° 1	21°53	9°53	28°46	2°20	23°23	22°36	20°11	4°48	S 4
M 5	14 51 33	14°26'07	21°53	23°48	15° 3	1°14	12°12	21°58	9°51	28°44	2°21	23°21	22°33	20°18	4°53	M 5
T 6	14 55 30	15°24'04	3♂45	24° 0	16°17	1°57	12°22	22° 4	9°48	28°43	2°23	23°19	22°30	20°24	4°58	T 6
W 7	14 59 26	16°21'59	15°41	24°17	17°31	2°41	12°32	22° 9	9°46	28°41	2°24	23°D18	22°27	20°31	5° 3	W 7
T 8	15 3 23	17°19'52	27°44	24°38	18°45	3°24	12°41	22°14	9°43	28°40	2°25	23°19	22°24	20°38	5° 7	T 8
F 9	15 7 19	18°17'43	10♂ 0	25° 4	19°59	4° 7	12°51	22°20	9°41	28°38	2°27	23°20	22°21	20°45	5°12	F 9
S 10	15 11 16	19°15'32	22°32	25°34	21°13	4°50	13° 1	22°25	9°38	28°36	2°28	23°22	22°17	20°51	5°17	S 10
S 11	15 15 12	20°13'20	5♂25	26° 8	22°26	5°33	13°10	22°30	9°36	28°35	2°29	23°23	22°14	20°58	5°22	S 11
M12	15 19 9	21°11'06	18°41	26°46	23°40	6°17	13°20	22°35	9°33	28°33	2°31	23°R24	22°11	21° 5	5°27	M12
T 13	15 23 5	22° 8'50	2♂21	27°27	24°54	7° 0	13°29	22°40	9°31	28°32	2°32	23°24	22° 8	21°11	5°32	T 13
W14	15 27 2	23° 6'33	16°23	28°13	26° 8	7°43	13°38	22°44	9°28	28°30	2°33	23°22	22° 5	21°18	5°37	W14
T 15	15 30 59	24° 4'15	0♂46	29° 1	27°22	8°26	13°47	22°49	9°26	28°28	2°35	23°19	22° 2	21°25	5°42	T 15
F 16	15 34 55	25° 1'55	15°22	29°54	28°35	9° 9	13°56	22°54	9°23	28°27	2°36	23°15	21°58	21°32	5°47	F 16
S 17	15 38 52	25°59'34	0♂ 6	0♂50	29°49	9°52	14° 5	22°59	9°21	28°25	2°37	23°11	21°55	21°38	5°51	S 17
S 18	15 42 48	26°57'12	14°50	1°49	1♂ 3	10°35	14°14	23° 3	9°19	28°24	2°39	23° 6	21°52	21°45	5°56	S 18
M19	15 46 45	27°54'49	29°27	2°51	2°17	11°18	14°22	23° 8	9°16	28°22	2°40	23° 2	21°49	21°52	6° 1	M19
T 20	15 50 41	28°52'25	13≈51	3°56	3°30	12° 1	14°31	23°12	9°14	28°20	2°41	23° 0	21°46	21°59	6° 6	T 20
W21	15 54 38	29°50'00	28° 0	5° 4	4°44	12°43	14°39	23°16	9°12	28°19	2°43	23°D59	21°42	22° 5	6°11	W21
T 22	15 58 34	0♂47'34	11♂52	6°15	5°58	13°26	14°47	23°21	9° 9	28°17	2°44	23° 0	21°39	22°12	6°16	T 22
F 23	16 2 31	1°45'07	25°27	7°29	7°12	14° 9	14°55	23°25	9° 7	28°15	2°46	23° 1	21°36	22°19	6°21	F 23
S 24	16 6 28	2°42'40	8°Y45	8°46	8°25	14°52	15° 3	23°29	9° 5	28°14	2°47	23° 2	21°33	22°25	6°26	S 24
S 25	16 10 24	3°40'11	21°49	10° 6	9°39	15°34	15°10	23°33	9° 2	28°12	2°48	23°R 3	21°30	22°32	6°31	S 25
M26	16 14 21	4°37'42	4♂40	11°28	10°53	16°17	15°18	23°37	9° 0	28°11	2°50	23° 2	21°27	22°39	6°36	M26
T 27	16 18 17	5°35'12	17°20	12°53	12° 7	16°59	15°25	23°41	8°58	28° 9	2°51	23° 0	21°23	22°46	6°41	T 27
W28	16 22 14	6°32'40	29°48	14°20	13°20	17°42	15°33	23°45	8°56	28° 7	2°52	22°55	21°20	22°52	6°47	W28
T 29	16 26 10	7°30'08	12♂ 7	15°51	14°34	18°24	15°40	23°48	8°54	28° 6	2°54	22°49	21°17	22°59	6°52	T 29
F 30	16 30 7	8°27'35	24°17	17°24	15°48	19° 6	15°47	23°52	8°52	28° 4	2°55	22°41	21°14	23° 6	6°57	F 30
S 31	16 34 3	9♂25'01	6♂19	18♂59	17♂ 1	19♂49	15♂54	23♂55	8♂50	28♂ 3	2♂56	22♂32	21♂11	23♂12	7♂ 2	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	15n 1	17n35	3s23	7n38	1s43	14n 8	0s47	13s38	1s40	8s11	1s 0	5s 8	1s58	14s26	0n26	18s14
F 2	15 19	18 36	4 10	7 23	1 56	14 33	0 45	13 24	1 41	8 7	1 0	5 6	1 58	14 25	0 26	18 14
S 3	15 37	18 44	4 44	7 12	2 9	14 57	0 43	13 9	1 42	8 3	1 0	5 4	1 58	14 24	0 26	18 13
S 4	15 55	18 1	5 6	7 2	2 20	15 21	0 41	12 55	1 43	7 59	1 0	5 2	1 58	14 24	0 26	18 13
M 5	16 12	16 32	5 15	6 55	2 30	15 45	0 39	12 41	1 44	7 56	1 0	5 0	1 58	14 23	0 26	18 13
T 6	16 29	14 20	5 9	6 51	2 40	16 9	0 37	12 26	1 45	7 52	1 1	4 58	1 58	14 22	0 26	18 12
W 7	16 46	11 32	4 51	6 49	2 48	16 32	0 35	12 11	1 46	7 48	1 1	4 56	1 59	14 21	0 26	18 12
T 8	17 2	8 13	4 20	6 50	2 56	16 54	0 33	11 57	1 47	7 45	1 1	4 54	1 59	14 21	0 26	18 12
F 9	17 18	4 30	3 36	6 53	3 2	17 17	0 31	11 42	1 48	7 41	1 1	4 52	1 59	14 20	0 26	18 11
S 10	17 34	0 30	2 41	6 59	3 8	17 38	0 28	11 27	1 49	7 38	1 1	4 51	1 59	14 19	0 26	18 11
S 11	17 50	3s38	1 37	7 7	3 13	18 0	0 26	11 12	1 50	7 34	1 2	4 49	1 59	14 18	0 26	18 11
M12	18 5	7 44	0 26	7 16	3 17	18 20	0 24	10 57	1 52	7 31	1 2	4 47	2 0	14 17	0 26	18 10
T 13	18 20	11 33	0n49	7 28	3 20	18 41	0 22	10 42	1 53	7 28	1 2	4 45	2 0	14 17	0 26	18 10
W14	18 35	14 49	2 3	7 42	3 22	19 1	0 19	10 27	1 54	7 24	1 2	4 43	2 0	14 16	0 26	18 10
T 15	18 49	17 15	3 10	7 58	3 24	19 20	0 17	10 12	1 55	7 21	1 3	4 42	2 0	14 15	0 26	18 9
F 16	19 4	18 36	4 6	8 16	3 24	19 39	0 15	9 56	1 56	7 18	1 3	4 40	2 1	14 14	0 26	18 9
S 17	19 17	18 42	4 47	8 35	3 24	19 57	0 12	9 41	1 57	7 15	1 3	4 38	2 1	14 14	0 26	18 8
S 18	19 31	17 33	5 8	8 56	3 24	20 15	0 10	9 26	1 58	7 12	1 3	4 37	2 1	14 13	0 26	18 8
M19	19 44	15 15	5 10	9 19	3 22	20 32	0 7	9 10	1 59	7 8	1 4	4 35	2 1	14 12	0 26	18 8
T 20	19 57	12 3	4 51	9 43	3 20	20 49	0 5	8 55	2 0	7 5	1 4	4 34	2 1	14 11	0 26	18 7
W21	20 9	8 12	4 15	10 9	3 17	21 5	0 3	8 39	2 1	7 3	1 4	4 32	2 2	14 11	0 26	18 7
T 22	20 21	3 58	3 25	10 35	3 13	21 20	0 0	8 24	2 2	7 0	1 4	4 31	2 2	14 10	0 26	18 7
F 23	20 33	0n24	2 24	11 3	3 9	21 35	0n 2	8 8	2 3	6 57	1 5	4 29	2 2	14 9	0 26	18 6
S 24	20 44	4 39	1 17	11 32	3 4	21 49	0 4	7 53	2 4	6 54	1 5	4 28	2 2	14 9	0 26	18 6
S 25	20 55	8 37	0 7	12 2	2 59	22 3	0 7	7 37	2 5	6 51	1 5	4 26	2 3	14 8	0 26	18 6
M26	21 6	12 7	1s 3	12 34	2 53	22 16	0 9	7 21	2 6	6 49	1 5	4 25	2 3	14 7	0 26	18 5
T 27	21 17	15 0	2 8	13 6	2 46	22 29	0 12	7 6	2 7	6 46	1 6	4 24	2 3	14 6	0 26	18 5
W28	21 27	17 7	3 6	13 38	2 39	22 40	0 14	6 50	2 8	6 43	1 6	4 23	2 3	14 6	0 26	18 5
T 29	21 36	18 25	3 54	14 12	2 32	22 52	0 16	6 34	2 9	6 41	1 6	4 21	2 4	14 5	0 26	18 4
F 30	21 45	18 51	4 31	14 46	2 23	23 2	0 19	6 18	2 10	6 38	1 6	4 20	2 4	14 5	0 26	18 4
S 31	21n54	18n25	4s55	15n20	2s15	23n12	0n21	6s 3	2s11	6s36	1s 7	4s19	2s 4	14s 4	0n26	18s 4

Julian Day Number = 2320908.5, Delta T = 48.71 sec
 Ecliptic obliquity = 23°29'00, Nutation = 0°00'05, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°44'53, Lahiri = 18°51'54Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1642
geocentric

JUNE 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 38 0	10II22'26	18☾15	20☿37	18II15	20☿31	16☿0	23☿59	8°R48	28°R 1	2II58	22°R23	21☾ 8	23☾19	7II 7	S 1
M 2	16 41 57	11°19'50	0☾ 7	22°18	19°29	21°13	16° 7	24° 2	8II46	27II59	2°59	22☾16	21° 4	23°26	7°12	M 2
T 3	16 45 53	12°17'13	11°59	24° 1	20°43	21°55	16°13	24° 5	8°44	27°58	3° 1	22°10	21° 1	23°33	7°17	T 3
W 4	16 49 50	13°14'34	23°53	25°47	21°56	22°37	16°19	24° 9	8°42	27°56	3° 2	22° 6	20°58	23°39	7°22	W 4
T 5	16 53 46	14°11'55	5II54	27°35	23°10	23°19	16°25	24°12	8°40	27°55	3° 3	22° 4	20°55	23°46	7°27	T 5
F 6	16 57 43	15° 9'14	18° 7	29°26	24°23	24° 1	16°31	24°15	8°38	27°53	3° 5	22°D 3	20°52	23°53	7°32	F 6
S 7	17 1 39	16° 6'33	0☾36	1II19	25°37	24°42	16°37	24°18	8°36	27°52	3° 6	22° 4	20°48	24° 0	7°37	S 7
S 8	17 5 36	17° 3'51	13°27	3°15	26°51	25°24	16°42	24°20	8°34	27°50	3° 7	22° 5	20°45	24° 6	7°42	S 8
M 9	17 9 32	18° 1'07	26°43	5°13	28° 4	26° 6	16°48	24°23	8°32	27°49	3° 9	22°R 5	20°42	24°13	7°47	M 9
T 10	17 13 29	18°58'23	10II26	7°13	29°18	26°47	16°53	24°26	8°31	27°47	3°10	22° 4	20°39	24°20	7°52	T 10
W11	17 17 26	19°55'38	24°37	9°15	0☿32	27°28	16°58	24°28	8°29	27°46	3°11	22° 0	20°36	24°26	7°57	W11
T 12	17 21 22	20°52'53	9☿14	11°19	1°45	28°10	17° 3	24°31	8°27	27°44	3°13	21°54	20°33	24°33	8° 2	T 12
F 13	17 25 19	21°50'07	24° 9	13°25	2°59	28°51	17° 8	24°33	8°26	27°43	3°14	21°46	20°29	24°40	8° 7	F 13
S 14	17 29 15	22°47'20	9☿16	15°32	4°12	29°32	17°12	24°35	8°24	27°41	3°15	21°38	20°26	24°47	8°12	S 14
S 15	17 33 12	23°44'33	24°23	17°41	5°26	0☿13	17°16	24°37	8°23	27°40	3°16	21°29	20°23	24°53	8°16	S 15
M16	17 37 8	24°41'46	9☿20	19°51	6°39	0°54	17°21	24°40	8°21	27°39	3°18	21°21	20°20	25° 0	8°21	M16
T 17	17 41 5	25°38'58	24° 1	22° 2	7°53	1°35	17°25	24°42	8°20	27°37	3°19	21°15	20°17	25° 7	8°26	T 17
W18	17 45 2	26°36'11	8☿19	24°13	9° 7	2°16	17°28	24°43	8°18	27°36	3°20	21°12	20°14	25°14	8°31	W18
T 19	17 48 58	27°33'23	22°13	26°24	10°20	2°56	17°32	24°45	8°17	27°34	3°22	21°D11	20°10	25°20	8°36	T 19
F 20	17 52 55	28°30'35	5☿44	28°35	11°34	3°37	17°36	24°47	8°16	27°33	3°23	21°11	20° 7	25°27	8°41	F 20
S 21	17 56 51	29°27'47	18°53	0☿46	12°47	4°17	17°39	24°48	8°14	27°32	3°24	21°R11	20° 4	25°34	8°46	S 21
S 22	18 0 48	0☿25'00	1☿44	2°57	14° 1	4°58	17°42	24°50	8°13	27°30	3°25	21°11	20° 1	25°40	8°50	S 22
M23	18 4 44	1°22'12	14°20	5° 7	15°14	5°38	17°45	24°51	8°12	27°29	3°27	21° 9	19°58	25°47	8°55	M23
T 24	18 8 41	2°19'24	26°44	7°15	16°28	6°18	17°48	24°53	8°11	27°28	3°28	21° 4	19°54	25°54	9° 0	T 24
W25	18 12 37	3°16'37	8II59	9°23	17°41	6°58	17°50	24°54	8°10	27°27	3°29	20°56	19°51	26° 1	9° 5	W25
T 26	18 16 34	4°13'49	21° 5	11°29	18°55	7°38	17°52	24°55	8° 9	27°25	3°30	20°46	19°48	26° 7	9°10	T 26
F 27	18 20 31	5°11'02	3☿ 6	13°33	20° 8	8°17	17°55	24°56	8° 8	27°24	3°31	20°34	19°45	26°14	9°14	F 27
S 28	18 24 27	6° 8'14	15° 3	15°36	21°22	8°57	17°57	24°57	8° 7	27°23	3°33	20°21	19°42	26°21	9°19	S 28
S 29	18 28 24	7° 5'26	26°56	17°38	22°35	9°36	17°58	24°58	8° 6	27°22	3°34	20° 8	19°39	26°27	9°24	S 29
M30	18 32 20	8☿ 2'38	8☿47	19☿37	23☿49	10☿15	18☿ 0	24☿58	8II 5	27II21	3II35	19☿56	19☿35	26☿34	9II28	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	22n 3	17n11	5s 6	15n55	2s 6	23n21	0n24	5s47	2s12	6s34	1s 7	4s18	2s 4	14s 3	0n26	18s 3
M 2	22 11	15 12	5 4	16 30	1 57	23 30	0 26	5 31	2 13	6 31	1 7	4 17	2 5	14 3	0 26	18 3
T 3	22 18	12 36	4 49	17 5	1 47	23 38	0 28	5 15	2 14	6 29	1 8	4 16	2 5	14 2	0 25	18 3
W 4	22 26	9 28	4 21	17 40	1 37	23 45	0 30	5 0	2 15	6 27	1 8	4 15	2 5	14 1	0 25	18 2
T 5	22 33	5 55	3 42	18 15	1 26	23 51	0 33	4 44	2 16	6 25	1 8	4 14	2 5	14 1	0 25	18 2
F 6	22 39	2 4	2 52	18 50	1 16	23 57	0 35	4 28	2 16	6 23	1 8	4 13	2 6	14 0	0 25	18 2
S 7	22 45	1s58	1 53	19 24	1 5	24 2	0 37	4 12	2 17	6 21	1 9	4 12	2 6	14 0	0 25	18 1
S 8	22 51	6 2	0 46	19 58	0 54	24 6	0 39	3 57	2 18	6 19	1 9	4 11	2 6	13 59	0 25	18 1
M 9	22 57	9 56	0n25	20 31	0 43	24 10	0 42	3 41	2 19	6 17	1 9	4 10	2 6	13 59	0 25	18 1
T 10	23 1	13 27	1 37	21 2	0 32	24 13	0 44	3 25	2 20	6 15	1 10	4 9	2 7	13 58	0 25	18 0
W11	23 6	16 18	2 45	21 33	0 20	24 15	0 46	3 10	2 21	6 14	1 10	4 8	2 7	13 58	0 25	18 0
T 12	23 10	18 11	3 44	22 2	0 9	24 16	0 48	2 54	2 22	6 12	1 10	4 8	2 7	13 57	0 25	18 0
F 13	23 14	18 52	4 30	22 29	0n 2	24 17	0 50	2 38	2 23	6 10	1 10	4 7	2 7	13 56	0 25	17 59
S 14	23 17	18 13	4 57	22 54	0 13	24 17	0 52	2 23	2 24	6 9	1 11	4 6	2 8	13 56	0 25	17 59
S 15	23 20	16 18	5 3	23 18	0 23	24 17	0 54	2 7	2 24	6 8	1 11	4 6	2 8	13 56	0 25	17 59
M16	23 23	13 18	4 49	23 39	0 33	24 15	0 56	1 52	2 25	6 6	1 11	4 5	2 8	13 55	0 25	17 59
T 17	23 25	9 31	4 16	23 57	0 43	24 13	0 58	1 36	2 26	6 5	1 12	4 5	2 8	13 55	0 25	17 58
W18	23 26	5 15	3 27	24 14	0 52	24 10	1 0	1 21	2 27	6 4	1 12	4 4	2 9	13 54	0 25	17 58
T 19	23 28	0 50	2 28	24 27	1 1	24 7	1 2	1 5	2 28	6 2	1 12	4 4	2 9	13 54	0 25	17 58
F 20	23 28	3n32	1 21	24 38	1 9	24 2	1 4	0 50	2 29	6 1	1 12	4 3	2 9	13 53	0 25	17 57
S 21	23 29	7 36	0 12	24 46	1 17	23 57	1 6	0 35	2 30	6 0	1 13	4 3	2 9	13 53	0 25	17 57
S 22	23 29	11 14	0s56	24 51	1 24	23 52	1 7	0 19	2 30	5 59	1 13	4 2	2 10	13 53	0 25	17 57
M23	23 29	14 16	2 0	24 53	1 30	23 45	1 9	0 4	2 31	5 59	1 13	4 2	2 10	13 52	0 25	17 57
T 24	23 28	16 36	2 57	24 52	1 35	23 38	1 11	0n11	2 32	5 58	1 14	4 2	2 10	13 52	0 25	17 56
W25	23 27	18 8	3 45	24 49	1 40	23 30	1 12	0 26	2 33	5 57	1 14	4 2	2 11	13 52	0 25	17 56
T 26	23 25	18 50	4 22	24 43	1 44	23 22	1 14	0 41	2 33	5 56	1 14	4 1	2 11	13 51	0 25	17 56
F 27	23 23	18 40	4 47	24 34	1 47	23 13	1 15	0 56	2 34	5 56	1 15	4 1	2 11	13 51	0 25	17 56
S 28	23 20	17 41	4 59	24 23	1 50	23 3	1 17	1 11	2 35	5 55	1 15	4 1	2 11	13 51	0 25	17 55
S 29	23 18	15 56	4 58	24 10	1 51	22 52	1 18	1 26	2 36	5 55	1 15	4 1	2 12	13 50	0 25	17 55
M30	23n14	13n31	4s45	23n54	1n53	22n41	1n19	1n40	2s36	5s55	1s16	4s 1	2s12	13s50	0n25	17s55

Julian Day Number = 2320939.5, Delta T = 48.65 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°44'57, Lahiri = 18°51'58Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1642

geocentric

JULY 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	18 36 17	8 ⁵⁵ 59'51	20 ⁰² 38	21 ⁵³ 35	25 ⁵⁶ 2	10 ⁰⁷ 55	18 ¹⁸ 1	24 ¹⁸ 59	8 ¹⁸ 4	27 ¹⁸ 20	3 ¹¹ 36	19 ¹⁸ 46	19 ⁰² 32	26 ⁵⁶ 41	9 ¹¹ 33	T 1
W 2	18 40 13	9 ⁵⁷ 02	2 ¹⁰ 33	23 ³⁰ 31	26 ¹⁶ 16	11 ³⁴	18 ⁰ 2	24 ⁵⁹	8 ¹⁸ 3	27 ¹⁸ 18	3 ³⁷	19 ⁰² 38	19 ²⁹	26 ⁴⁸	9 ³⁷	W 2
T 3	18 44 10	10 ⁵⁴ 14	14 ³⁴	25 ²⁴	27 ²⁹	12 ¹²	18 ⁰ 3	25 ⁰ 0	8 ⁰ 3	27 ¹⁷	3 ³⁸	19 ³³	19 ²⁶	26 ⁵⁴	9 ⁴²	T 3
F 4	18 48 6	11 ⁵¹ 26	26 ⁴⁵	27 ¹⁶	28 ⁴³	12 ⁵¹	18 ⁰ 4	25 ⁰ 0	8 ⁰ 2	27 ¹⁶	3 ³⁹	19 ³¹	19 ²³	27 ⁰ 1	9 ⁴⁶	F 4
S 5	18 52 3	12 ⁴⁸ 38	9 ⁰² 12	29 ⁰ 6	29 ⁵⁶	13 ²⁹	18 ⁰ 5	25 ⁰ 0	8 ⁰ 1	27 ¹⁵	3 ⁴¹	19 ³⁰	19 ²⁰	27 ⁰ 8	9 ⁵¹	S 5
S 6	18 56 0	13 ⁴⁵ 49	21 ⁵⁸	0 ⁰² 54	1 ⁰² 10	14 ⁰ 8	18 ⁰ 5	25 ¹⁸ 0	8 ⁰ 1	27 ¹⁴	3 ⁴²	19 ³⁰	19 ¹⁶	27 ¹⁵	9 ⁵⁵	S 6
M 7	18 59 56	14 ⁴³ 01	5 ¹⁸ 9	2 ⁴⁰	2 ²³	14 ⁴⁶	18 ⁰ 6	25 ⁰ 0	8 ⁰ 0	27 ¹³	3 ⁴³	19 ³⁰	19 ¹³	27 ²¹	10 ⁰ 0	M 7
T 8	19 3 53	15 ⁴⁰ 12	18 ⁴⁸	4 ²⁵	3 ³⁶	15 ²⁴	18 ⁰ R 6	25 ⁰ 0	8 ⁰ 0	27 ¹²	3 ⁴⁴	19 ²⁸	19 ¹⁰	27 ²⁸	10 ⁰ 4	T 8
W 9	19 7 49	16 ³⁷ 24	2 ¹⁷ 56	6 ⁰ 7	4 ⁵⁰	16 ⁰ 2	18 ⁰ 5	25 ⁰ 0	7 ⁵⁹	27 ¹¹	3 ⁴⁵	19 ²³	19 ⁰ 7	27 ³⁵	10 ⁰ 8	W 9
T 10	19 11 46	17 ³⁴ 36	17 ³³	7 ⁴⁷	6 ⁰ 3	16 ³⁹	18 ⁰ 5	25 ⁰ 0	7 ⁵⁹	27 ¹¹	3 ⁴⁶	19 ¹⁶	19 ⁰ 4	27 ⁴¹	10 ¹³	T 10
F 11	19 15 42	18 ³¹ 48	2 ²³ 34	9 ²⁵	7 ¹⁷	17 ¹⁷	18 ⁰ 4	24 ⁵⁹	7 ⁵⁹	27 ¹⁰	3 ⁴⁷	19 ⁰ 7	19 ⁰ 0	27 ⁴⁸	10 ¹⁷	F 11
S 12	19 19 39	19 ²⁹ 00	17 ⁴⁹	11 ⁰ 2	8 ³⁰	17 ⁵⁴	18 ⁰ 4	24 ⁵⁹	7 ⁵⁸	27 ⁰ 9	3 ⁴⁸	18 ⁵⁶	18 ⁵⁷	27 ⁵⁵	10 ²¹	S 12
S 13	19 23 35	20 ²⁶ 13	3 ⁰⁰ 9	12 ³⁶	9 ⁴³	18 ³¹	18 ⁰ 3	24 ⁵⁸	7 ⁵⁸	27 ⁰ 8	3 ⁴⁹	18 ⁴⁶	18 ⁵⁴	28 ⁰ 2	10 ²⁶	S 13
M14	19 27 32	21 ²³ 26	18 ²¹	14 ⁰ 8	10 ⁵⁷	19 ⁰ 8	18 ⁰ 2	24 ⁵⁷	7 ⁵⁸	27 ⁰ 7	3 ⁵⁰	18 ³⁶	18 ⁵¹	28 ⁰ 8	10 ³⁰	M14
T 15	19 31 29	22 ²⁰ 40	3 ¹⁶	15 ³⁹	12 ¹⁰	19 ⁴⁵	18 ⁰ 0	24 ⁵⁶	7 ⁵⁸	27 ⁰ 6	3 ⁵¹	18 ²⁹	18 ⁴⁸	28 ¹⁵	10 ³⁴	T 15
W16	19 35 25	23 ¹⁷ 55	17 ⁴⁷	17 ⁰ 7	13 ²³	20 ²¹	17 ⁵⁹	24 ⁵⁵	7 ⁵⁸	27 ⁰ 6	3 ⁵²	18 ²⁴	18 ⁴⁵	28 ²²	10 ³⁸	W16
T 17	19 39 22	24 ¹⁵ 10	1 ⁰⁷ 50	18 ³⁴	14 ³⁷	20 ⁵⁷	17 ⁵⁷	24 ⁵⁴	7 ⁵⁸	27 ⁰ 5	3 ⁵³	18 ²²	18 ⁴¹	28 ²⁸	10 ⁴²	T 17
F 18	19 43 18	25 ¹² 26	15 ²⁵	19 ⁵⁸	15 ⁵⁰	21 ³⁴	17 ⁵⁵	24 ⁵³	7 ⁵⁸	27 ⁰ 4	3 ⁵⁴	18 ⁰ D21	18 ³⁸	28 ³⁵	10 ⁴⁶	F 18
S 19	19 47 15	26 ⁰ 9'43	28 ³⁴	21 ²¹	17 ⁰ 3	22 ⁰ 9	17 ⁵³	24 ⁵²	7 ⁵⁸	27 ⁰ 4	3 ⁵⁵	18 ⁰ R21	18 ³⁵	28 ⁴²	10 ⁵⁰	S 19
S 20	19 51 11	27 ⁰ 7'01	11 ¹⁸ 21	22 ⁴¹	18 ¹⁷	22 ⁴⁵	17 ⁵¹	24 ⁵¹	7 ⁵⁸	27 ⁰ 3	3 ⁵⁶	18 ²¹	18 ³²	28 ⁴⁹	10 ⁵⁴	S 20
M21	19 55 8	28 ⁰ 4'20	23 ⁵¹	23 ⁵⁹	19 ³⁰	23 ²⁰	17 ⁴⁸	24 ⁴⁹	7 ⁵⁸	27 ⁰ 2	3 ⁵⁶	18 ¹⁹	18 ²⁹	28 ⁵⁵	10 ⁵⁸	M21
T 22	19 59 4	29 ⁰ 1'41	6 ¹¹ 7	25 ¹⁵	20 ⁴³	23 ⁵⁶	17 ⁴⁶	24 ⁴⁸	7 ⁵⁸	27 ⁰ 2	3 ⁵⁷	18 ¹⁴	18 ²⁶	29 ⁰ 2	11 ⁰ 2	T 22
W23	20 3 1	29 ⁵⁹ 02	18 ¹²	26 ²⁹	21 ⁵⁶	24 ³¹	17 ⁴³	24 ⁴⁶	7 ⁵⁹	27 ⁰ 1	3 ⁵⁸	18 ⁰ 7	18 ²²	29 ⁰ 9	11 ⁰ 6	W23
T 24	20 6 58	0 ⁰² 56'24	0 ⁰² 11	27 ⁴⁰	23 ¹⁰	25 ⁰ 5	17 ⁴⁰	24 ⁴⁵	7 ⁵⁹	27 ⁰ 1	3 ⁵⁹	17 ⁵⁶	18 ¹⁹	29 ¹⁶	11 ⁰ 9	T 24
F 25	20 10 54	1 ⁵³ 47	12 ⁰ 6	28 ⁴⁹	24 ²³	25 ⁴⁰	17 ³⁶	24 ⁴³	8 ⁰ 0	27 ⁰ 0	4 ⁰ 0	17 ⁴⁴	18 ¹⁶	29 ²²	11 ¹³	F 25
S 26	20 14 51	2 ⁵¹ 10	23 ⁵⁹	29 ⁵⁶	25 ³⁶	26 ¹⁴	17 ³³	24 ⁴¹	8 ⁰ 0	27 ⁰ 0	4 ⁰ 1	17 ³¹	18 ¹³	29 ²⁹	11 ¹⁷	S 26
S 27	20 18 47	3 ⁴⁸ 35	5 ⁰² 50	1 ¹⁰ 0	26 ⁴⁹	26 ⁴⁸	17 ²⁹	24 ³⁹	8 ⁰ 1	27 ⁰ 0	4 ⁰ 1	17 ¹⁸	18 ¹⁰	29 ³⁶	11 ²⁰	S 27
M28	20 22 44	4 ⁴⁶ 01	17 ⁴³	2 ⁰ 1	28 ⁰ 2	27 ²¹	17 ²⁶	24 ³⁷	8 ⁰ 1	26 ⁵⁹	4 ⁰ 2	17 ⁰ 6	18 ⁰ 6	29 ⁴²	11 ²⁴	M28
T 29	20 26 40	5 ⁴³ 27	29 ³⁷	3 ⁰ 0	29 ¹⁶	27 ⁵⁵	17 ²²	24 ³⁵	8 ⁰ 2	26 ⁵⁹	4 ⁰ 3	16 ⁵⁶	18 ⁰ 3	29 ⁴⁹	11 ²⁷	T 29
W30	20 30 37	6 ⁴⁰ 55	11 ¹⁰ 36	3 ⁵⁶	0 ¹⁰ 29	28 ²⁸	17 ¹⁷	24 ³³	8 ⁰ 2	26 ⁵⁸	4 ⁰ 4	16 ⁴⁸	18 ⁰ 0	29 ⁵⁶	11 ³¹	W30
T 31	20 34 33	7 ⁰² 38'23	23 ¹⁰ 42	4 ¹⁰ 49	1 ¹⁰ 42	29 ⁰⁷ 0	17 ¹⁸ 13	24 ¹⁸ 30	8 ¹⁸ 3	26 ¹⁸ 58	4 ¹¹ 4	16 ⁰² 43	17 ⁰² 57	0 ⁰² 3	11 ¹¹ 34	T 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑	♒	♓	♈	♉		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
T 1	23n11	10n33	4s19	23n36	1n53	22n29	1n21	1n55	2s37	5s54	1s16	4s 1	2s12	13s50	0n25	17s55	1n44	9n30	11s36	7s45	7s39	15n51	17n41	4s17
W 2	23 7	7 9	3 41	23 17	1 53	22 17	1 22	2 10	2 38	5 54	1 16	4 1	2 12	13 50	0 25	17 55	1 44	9 30	11 36	7 42	7 38	15 49	17 41	4 17
T 3	23 2	3 25	2 54	22 55	1 52	22 3	1 23	2 24	2 39	5 54	1 16	4 1	2 13	13 50	0 25	17 54	1 44	9 30	11 37	7 40	7 37	15 48	17 42	4 18
F 4	22 57	0s30	1 57	22 32	1 50	21 50	1 24	2 38	2 39	5 54	1 17	4 1	2 13	13 49	0 25	17 54	1 44	9 31	11 37	7 39	7 36	15 47	17 42	4 18
S 5	22 52	4 29	0 54	22 8	1 48	21 35	1 25	2 53	2 40	5 54	1 17	4 2	2 13	13 49	0 25	17 54	1 44	9 31	11 37	7 39	7 35	15 46	17 43	4 18
S 6	22 46	8 22	0n13	21 42	1 45	21 20	1 26	3 7	2 41	5 54	1 17	4 2	2 14	13 49	0 25	17 54	1 44	9 31	11 37	7 39	7 33	15 45	17 43	4 18
M 7	22 40	11 59	1 22	21 15	1 41	21 5	1 27	3 21	2 41	5 54	1 18	4 2	2 14	13 49	0 25	17 54	1 44	9 31	11 37	7 39	7 32	15 44	17 43	4 19
T 8	22 34	15 4	2 28	20 46	1 37	20 48	1 28	3 35	2 42	5 55	1 18	4 2	2 14	13 49	0 25	17 54	1 43	9 31	11 37	7 38	7 31	15 43	17 44	4 19
W 9	22 27	17 23	3 28	20 17	1 33	20 32	1 29	3 49	2 42	5 55	1 18	4 3	2 14	13 49	0 25	17 53	1 43	9 31	11 37	7 36	7 30	15 41	17 44	4 19
T 10	22 20	18 39	4 16	19 46	1 28	20 14	1 29	4 3	2 43	5 55	1 19	4 3	2 15	13 49	0 24	17 53	1 43	9 31	11 37	7 33	7 29	15 40	17 45	4 19
F 11	22 12	18 39	4 48	19 15	1 22	19 56	1 30	4 17	2 44	5 56	1 19	4 4	2 15	13 48	0 24	17 53	1 43	9 31	11 38	7 30	7 27	15 39	17 45	4 20
S 12	22 4	17 20	5 0	18 43	1 16	19 38	1 31	4 30	2 44	5 57	1 19	4 4	2 15	13 48	0 24	17 53	1 43	9 31	11 38	7 26	7 26	15 38	17 45	4 20
S 13	21 56	14 46	4 51	18 10	1 10	19 19	1 31	4 44	2 45	5 57	1 20	4 4	2 15	13 48	0 24	17 53	1 43	9 31	11 38	7 22	7 25	15 37	17 45	4 20
M14	21 47	11 12	4 21	17 37	1 3	18 59	1 32	4 57	2 45	5 58	1 20	4 5	2 16	13 48	0 24	17 53	1 43	9 31	11 38	7 18	7 24	15 36	17 46	4 21
T 15	21 38	7 0	3 34	17 3	0 55	18 39	1 32	5 11	2 46	5 59	1 20	4 6	2 16	13 48	0 24	17 53	1 43	9 31	11 38	7 15	7 23	15 34	17 46	4 21
W16	21 28	2 28	2 34	16 29	0 48	18 19	1 32	5 24	2 46	6 0	1 20	4 6	2 16	13 48	0 24	17 52	1 43	9 31	11 38	7 14	7 21	15 33	17 46	4 21
T 17	21 18	2n 3	1 26	15 55	0 40	17 57	1 33	5 37	2 47	6 1	1 21	4 7	2 16	13 48	0 24	17 52	1 43	9 31	11 38	7 13	7 20	15 32	17 47	4 21
F 18	21 8	6 19	0 16	15 21	0 31	17 36	1 33	5 50	2 47	6 2	1 21	4 8	2 17	13 48	0 24	17 52	1 43	9 31	11 39	7 13	7 19	15 31	17 47	4 22
S 19	20 57	10 9	0s54	14 46	0 22	17 14	1 33	6 3	2 48	6 3	1 21	4 8	2 17	13 48	0 24	17 52	1 43	9 31	11 39	7 13	7 18	15 30	17 47	4 22
S 20	20 46	13 23	1 58	14 11	0 13	16 51	1 33	6 15	2 48	6 4	1 22	4 9	2 17	13 49	0 24	17 52	1 43	9 31	11 39	7 12	7 17	15 29	17 47	4 22
M21	20 35	15 56	2 56	13 36	0 4	16 28	1 33	6 28	2 49	6 5	1 22	4 10	2 17	13 49	0 24	17 52	1 43	9 31	11 39	7 11	7 15	15 27	17 48	4 23
T 22	20 23	17 41	3 44	13 2	0s 6	16 5	1 33	6 41	2 49	6 6	1 22	4 11	2 18	13 49	0 24	17 52	1 43	9 31	11 39	7 10	7 14	15 26	17 48	4 23
W23	20 11	18 37	4 21	12 27	0 16	15 41	1 33	6 53	2 50	6 8	1 22	4 11	2 18	13 49	0 24	17 52	1 43	9 31	11 39	7 7	7 13	15 25	17 48	4 23
T 24	19 59	18 42	4 47	11 53	0 27	15 17	1 33	7 5	2 50	6 9	1 23	4 12	2 18	13 49	0 24	17 52	1 43	9 31	11 40	7 3	7 12	15 24	17 48	4 24
F 25	19 46	17 58	4 59	11 20	0 37	14 52	1 32	7 17	2 51	6 11	1 23	4 13	2 18	13 49	0 24	17 52	1 43	9 31	11 40	6 58	7 10	15 23	17 48	4 24
S 26	19 33	16 27	4 59	10 46	0 48	14 27	1 32	7 29	2 51	6 12	1 23	4 14	2 19	13 49	0 24	17 52	1 43	9 31	11 40	6 53	7 9	15 21	17 48	4 24
S 27	19 20	14 14	4 45	10 13	0 59	14 2	1 31	7 41	2 51	6 14	1 24	4 15	2 19	13 50	0 24	17 52	1 42	9 31	11 40	6 48	7 8	15 20	17 49	4 25
M28	19 6	11 26	4 20	9 41	1 10	13 36	1 31	7 53	2 52	6 16	1 24	4 16	2 19	13 50	0 24	17 52	1 42	9 31	11 40	6 44	7 7	15 19	17 49	4 25
T 29	18 52	8 9	3 42	9 9	1 21	13 10	1 30	8 4	2 52	6 18	1 24	4 17	2 19	13 50	0 24	17 52	1 42	9 31	11 40	6 40	7 6	15 18	17 49	4 25
W30	18 38	4 32	2 55	8 39	1 23	12 43	1 30	8 16	2 52	6 20	1 24	4 19	2 20	13 50	0 24	17 52	1 42	9 31	11 41	6 37	7 4	15 17	17 49	4 26
T 31	18n24	0n41	1s59	8n 9	1s44	12n16	1n29	8n27	2s53	6s21	1s25	4s20	2s20	13s50	0n24	17s51	1n42	9n31	11s41	6s35	7s 3	15n16	17n49	4s26

ASTRODIENST EPHEMERIS for the year 1642
geocentric

AUGUST 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	20 38 30	8♌35°52	5♊57	5♎38	2♎55	29♍33	17°R 9	24°R28	8♍ 4	26°R58	4♎ 5	16°R41	17♊54	0♌ 9	11♎38	F 1
S 2	20 42 27	9°33'21	18°25	6°24	4° 8	0♈ 5	17°H 4	24°H25	8° 5	26♍58	4° 6	16°D40	17°51	0°16	11°41	S 2
S 3	20 46 23	10°30'52	1♎11	7° 7	5°21	0°37	16°59	24°23	8° 6	26°57	4° 6	16♊41	17°47	0°23	11°44	S 3
M 4	20 50 20	11°28'23	14°18	7°46	6°34	1° 8	16°54	24°20	8° 6	26°57	4° 7	16°R41	17°44	0°29	11°48	M 4
T 5	20 54 16	12°25'56	27°51	8°22	7°47	1°40	16°49	24°17	8° 7	26°57	4° 8	16°40	17°41	0°36	11°51	T 5
W 6	20 58 13	13°23'29	11♌51	8°53	9° 1	2°11	16°44	24°14	8° 8	26°57	4° 8	16°37	17°38	0°43	11°54	W 6
T 7	21 2 9	14°21'03	26°17	9°20	10°14	2°41	16°38	24°11	8°10	26°57	4° 9	16°32	17°35	0°50	11°57	T 7
F 8	21 6 6	15°18'38	11♎8	9°42	11°27	3°11	16°33	24° 8	8°11	26°57	4° 9	16°24	17°31	0°56	12° 0	F 8
S 9	21 10 2	16°16'14	26°17	10° 0	12°40	3°41	16°27	24° 5	8°12	26°D57	4°10	16°16	17°28	1° 3	12° 3	S 9
S 10	21 13 59	17°13'51	11♎33	10°12	13°52	4°11	16°21	24° 2	8°13	26°57	4°10	16° 7	17°25	1°10	12° 6	S 10
M 11	21 17 56	18°11'30	26°46	10°20	15° 5	4°40	16°15	23°59	8°14	26°57	4°11	15°59	17°22	1°17	12° 8	M 11
T 12	21 21 52	19° 9'10	11♎46	10°R22	16°18	5° 9	16° 9	23°56	8°16	26°57	4°11	15°53	17°19	1°23	12°11	T 12
W 13	21 25 49	20° 6'51	26°24	10°19	17°31	5°37	16° 2	23°52	8°17	26°57	4°12	15°50	17°16	1°30	12°14	W 13
T 14	21 29 45	21° 4'33	10♍35	10°10	18°44	6° 5	15°56	23°49	8°19	26°57	4°12	15°D48	17°12	1°37	12°17	T 14
F 15	21 33 42	22° 2'18	24°17	9°56	19°57	6°33	15°49	23°45	8°20	26°58	4°13	15°48	17° 9	1°43	12°19	F 15
S 16	21 37 38	23° 0'04	7♎32	9°35	21°10	7° 0	15°43	23°42	8°22	26°58	4°13	15°49	17° 6	1°50	12°22	S 16
S 17	21 41 35	23°57'52	20°22	9° 9	22°23	7°27	15°36	23°38	8°23	26°58	4°13	15°R50	17° 3	1°57	12°24	S 17
M 18	21 45 31	24°55'41	2♎52	8°37	23°35	7°53	15°29	23°34	8°25	26°58	4°14	15°50	17° 0	2° 4	12°27	M 18
T 19	21 49 28	25°53'33	15° 7	8° 0	24°48	8°19	15°22	23°31	8°26	26°59	4°14	15°48	16°57	2°10	12°29	T 19
W 20	21 53 25	26°51'26	27°10	7°18	26° 1	8°44	15°15	23°27	8°28	26°59	4°14	15°44	16°53	2°17	12°31	W 20
T 21	21 57 21	27°49'21	9♎5	6°32	27°14	9° 9	15° 8	23°23	8°30	26°59	4°15	15°38	16°50	2°24	12°33	T 21
F 22	22 1 18	28°47'18	20°58	5°42	28°26	9°34	15° 0	23°19	8°32	27° 0	4°15	15°30	16°47	2°30	12°36	F 22
S 23	22 5 14	29°45'16	2♎49	4°49	29°39	9°58	14°53	23°15	8°34	27° 0	4°15	15°21	16°44	2°37	12°38	S 23
S 24	22 9 11	0♎43'16	14°42	3°54	0♎52	10°21	14°46	23°11	8°35	27° 1	4°15	15°13	16°41	2°44	12°40	S 24
M 25	22 13 7	1°41'18	26°39	2°58	2° 4	10°44	14°38	23° 7	8°37	27° 1	4°16	15° 5	16°37	2°51	12°42	M 25
T 26	22 17 4	2°39'21	8♎40	2° 2	3°17	11° 7	14°30	23° 3	8°39	27° 2	4°16	14°58	16°34	2°57	12°43	T 26
W 27	22 21 0	3°37'26	20°49	1° 7	4°30	11°29	14°23	22°58	8°41	27° 2	4°16	14°54	16°31	3° 4	12°45	W 27
T 28	22 24 57	4°35'32	3♎5	0°15	5°42	11°50	14°15	22°54	8°43	27° 3	4°16	14°51	16°28	3°11	12°47	T 28
F 29	22 28 53	5°33'41	15°31	29♎27	6°55	12°11	14° 7	22°50	8°46	27° 4	4°16	14°D50	16°25	3°17	12°49	F 29
S 30	22 32 50	6°31'50	28°10	28°43	8° 7	12°31	13°59	22°45	8°48	27° 4	4°16	14°51	16°22	3°24	12°50	S 30
S 31	22 36 47	7♎30'01	11♎ 3	28♎ 6	9♎20	12♎51	13°H51	22°H41	8♍50	27♍ 5	4♎16	14♎53	16♎18	3♎231	12♎52	S 31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl
F 1	18n 9	3s14	0s57	7n40	1s56	11n49	1n28	8n38	2s53	6s23	1s25	4s21	2s20	13s51	0n24	17s51	1n42	9n31	11s41	6s34	7s 2	15n14	17n49	4s27										
S 2	17 54	7 5	0n 9	7 12	2 8	11 22	1 27	8 49	2 53	6 26	1 25	4 22	2 20	13 51	0 24	17 52	1 42	9 31	11 41	6 34	7 1	15 13	17 49	4 27										
S 3	17 38	10 43	1 17	6 45	2 19	10 54	1 26	9 0	2 53	6 28	1 25	4 23	2 21	13 51	0 24	17 52	1 42	9 31	11 41	6 34	7 0	15 12	17 49	4 27										
M 4	17 22	13 54	2 22	6 20	2 31	10 26	1 25	9 11	2 54	6 30	1 26	4 25	2 21	13 52	0 24	17 52	1 42	9 31	11 42	6 34	6 58	15 11	17 49	4 28										
T 5	17 6	16 27	3 21	5 56	2 43	9 58	1 24	9 21	2 54	6 32	1 26	4 26	2 21	13 52	0 24	17 52	1 42	9 30	11 42	6 34	6 57	15 9	17 49	4 28										
W 6	16 50	18 7	4 10	5 34	2 54	9 29	1 23	9 32	2 54	6 34	1 26	4 27	2 21	13 52	0 24	17 52	1 42	9 30	11 42	6 33	6 56	15 8	17 49	4 28										
T 7	16 33	18 40	4 46	5 13	3 6	9 0	1 22	9 42	2 54	6 37	1 26	4 29	2 22	13 53	0 24	17 52	1 42	9 30	11 42	6 31	6 55	15 7	17 49	4 29										
F 8	16 16	17 59	5 3	4 55	3 17	8 31	1 20	9 52	2 54	6 39	1 27	4 30	2 22	13 53	0 24	17 52	1 42	9 30	11 42	6 28	6 53	15 6	17 49	4 29										
S 9	15 59	16 2	5 0	4 38	3 27	8 2	1 19	10 2	2 55	6 42	1 27	4 31	2 22	13 54	0 24	17 52	1 42	9 30	11 42	6 24	6 52	15 5	17 49	4 30										
S 10	15 42	12 56	4 35	4 24	3 38	7 33	1 17	10 12	2 55	6 44	1 27	4 33	2 22	13 54	0 24	17 52	1 42	9 30	11 43	6 21	6 51	15 3	17 49	4 30										
M 11	15 24	8 59	3 51	4 11	3 48	7 3	1 16	10 21	2 55	6 47	1 27	4 34	2 22	13 54	0 24	17 52	1 42	9 30	11 43	6 18	6 50	15 2	17 49	4 30										
T 12	15 6	4 31	2 52	4 2	3 57	6 33	1 14	10 31	2 55	6 49	1 28	4 36	2 23	13 55	0 24	17 52	1 42	9 30	11 43	6 16	6 49	15 1	17 49	4 31										
W 13	14 48	0n 8	1 42	3 55	4 6	6 3	1 13	10 40	2 55	6 52	1 28	4 37	2 23	13 55	0 23	17 52	1 41	9 30	11 43	6 14	6 47	15 0	17 49	4 31										
T 14	14 30	4 37	0 28	3 51	4 14	5 33	1 11	10 49	2 55	6 55	1 28	4 39	2 23	13 56	0 23	17 52	1 41	9 29	11 44	6 14	6 46	14 58	17 49	4 32										
F 15	14 11	8 44	0s45	3 50	4 21	5 3	1 9	10 58	2 55	6 57	1 28	4 40	2 23	13 56	0 23	17 52	1 41	9 29	11 44	6 14	6 45	14 57	17 49	4 32										
S 16	13 53	12 15	1 54	3 52	4 27	4 32	1 7	11 7	2 55	7 0	1 28	4 42	2 23	13 57	0 23	17 52	1 41	9 29	11 44	6 14	6 44	14 56	17 49	4 32										
S 17	13 33	15 4	2 55	3 58	4 31	4 2	1 5	11 16	2 55	7 3	1 29	4 44	2 24	13 57	0 23	17 52	1 41	9 29	11 44	6 14	6 43	14 55	17 49	4 33										
M 18	13 14	17 5	3 46	4 6	4 35	3 31	1 3	11 24	2 55	7 6	1 29	4 45	2 24	13 58	0 23	17 53	1 41	9 29	11 44	6 14	6 41	14 54	17 49	4 33										
T 19	12 55	18 16	4 25	4 18	4 36	3 0	1 1	11 33	2 55	7 9	1 29	4 47	2 24	13 59	0 23	17 53	1 41	9 29	11 45	6 14	6 40	14 52	17 49	4 34										
W 20	12 35	18 36	4 52	4 34	4 37	2 29	0 59	11 41	2 55	7 12	1 29	4 49	2 24	13 59	0 23	17 53	1 41	9 29	11 45	6 12	6 39	14 51	17 49	4 34										
T 21	12 15	18 6	5 5	4 52	4 35	1 58	0 57	11 49	2 55	7 15	1 29	4 50	2 24	14 0	0 23	17 53	1 41	9 28	11 45	6 10	6 38	14 50	17 48	4 34										
F 22	11 55	16 48	5 6	5 13	4 32	1 27	0 55	11 57	2 54	7 18	1 30	4 52	2 24	14 0	0 23	17 53	1 41	9 28	11 45	6 7	6 36	14 49	17 48	4 35										
S 23	11 35	14 48	4 53	5 38	4 27	0 56	0 52	12 4	2 54	7 21	1 30	4 54	2 25	14 1	0 23	17 53	1 41	9 28	11 45	6 3	6 35	14 47	17 48	4 35										
S 24	11 14	12 11	4 28	6 4	4 19	0 25	0 50	12 12	2 54	7 24	1 30	4 56	2 25	14 2	0 23	17 54	1 41	9 28	11 46	6 0	6 34	14 46	17 48	4 36										
M 25	10 54	9 2	3 51	6 33	4 10	0s 6	0 48	12 19	2 54	7 27	1 30	4 57	2 25	14 2	0 23	17 54	1 41	9 28	11 46	5 57	6 33	14 45	17 48	4 36										
T 26	10 33	5 30	3 3	7 3	3 59	0 37	0 45	12 26	2 54	7 30	1 30	4 59	2 25	14 3	0 23	17 54	1 41	9 28	11 46	5 55	6 32	14 44	17 48	4 37										
W 27	10 12	1 43	2 7	7 34	3 46	1 8	0 43	12 33	2 53	7 33	1 30	5 1	2 25	14 4	0 23	17 54	1 41	9 27	11 46	5 53	6 30	14 42	17 47	4 37										
T 28	9 51	2s12	1 3	8 6	3 32	1 39	0 40	12 40	2 53	7 36	1 30	5 3	2 25	14 4	0 23	17 54	1 41	9 27	11 46	5 52	6 29	14 41	17 47	4 37										
F 29	9 29	6 4	0n 4	8 37	3 16	2 11	0 37	12 47	2 53	7 39	1 30	5 4	2 25	14 5	0 23	17 54	1 40	9 27	11 47	5 51	6 28	14 40	17 47	4 38										
S 30	9 8	9 43	1 12	9 8	2 59	2 42	0 35	12 53	2 52	7 42	1 31	5 6	2 25	14 6	0 23	17 55	1 40	9 27	11 47	5 52	6 27	14 38	17 47	4 38										
S 31	8n46	12s59	2n18	9n38	2s41	3s13	0n32	13n 0	2s52	7s45	1s31	5s 8	2s26	14s 6	0n23	17s55	1n40	9n27	11s47	5s52	6s25	14n37	17n46	4s39										

ASTRODIENST EPHEMERIS for the year 1642

geocentric

SEPTEMBER 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	22 40 43	8♍28'14	24♍14	27°R35	10♎32	13♏10	13°R44	22°R37	8♍52	27♍6	4♏17	14♎54	16♎15	3♏28	12♏53	M 1
T 2	22 44 40	9°26'29	7♎44	27♏12	11°45	13°28	13♏36	22♏32	8°55	27°7	4°17	14°R55	16°12	3°44	12°55	T 2
W 3	22 48 36	10°24'44	21°36	26°58	12°57	13°46	13°28	22°28	8°57	27°7	4°17	14°54	16°9	3°51	12°56	W 3
T 4	22 52 33	11°23'02	5♎50	26°D52	14°9	14°3	13°20	22°23	8°59	27°8	4°R17	14°52	16°6	3°58	12°57	T 4
F 5	22 56 29	12°21'20	20°24	26°55	15°22	14°20	13°12	22°19	9°2	27°9	4°17	14°49	16°3	4°4	12°58	F 5
S 6	23 0 26	13°19'41	5♎13	27°7	16°34	14°36	13°4	22°14	9°4	27°10	4°17	14°45	15°59	4°11	12°59	S 6
S 7	23 4 22	14°18'03	20°10	27°28	17°46	14°51	12°56	22°10	9°7	27°11	4°17	14°40	15°56	4°18	13°0	S 7
M 8	23 8 19	15°16'26	5♎8	27°58	18°58	15°6	12°48	22°5	9°9	27°12	4°16	14°36	15°53	4°25	13°1	M 8
T 9	23 12 16	16°14'52	19°58	28°36	20°11	15°20	12°40	22°1	9°12	27°13	4°16	14°34	15°50	4°31	13°2	T 9
W10	23 16 12	17°13'19	4°Y31	29°24	21°23	15°33	12°32	21°56	9°14	27°14	4°16	14°32	15°47	4°38	13°3	W10
T 11	23 20 9	18°11'49	18°42	0♍19	22°35	15°45	12°24	21°51	9°17	27°15	4°16	14°D32	15°43	4°45	13°4	T 11
F 12	23 24 5	19°10'20	2♎27	1°21	23°47	15°57	12°16	21°47	9°20	27°16	4°16	14°33	15°40	4°51	13°5	F 12
S 13	23 28 2	20°8'54	15°47	2°31	24°59	16°8	12°8	21°42	9°22	27°17	4°16	14°34	15°37	4°58	13°5	S 13
S 14	23 31 58	21°7'30	28°43	3°46	26°11	16°19	12°1	21°37	9°25	27°18	4°15	14°36	15°34	5°5	13°6	S 14
M15	23 35 55	22°6'08	11♏17	5°8	27°23	16°28	11°53	21°33	9°28	27°19	4°15	14°37	15°31	5°12	13°6	M15
T 16	23 39 51	23°4'48	23°34	6°34	28°35	16°37	11°45	21°28	9°31	27°21	4°15	14°R37	15°28	5°18	13°6	T 16
W17	23 43 48	24°3'31	5♎38	8°5	29°47	16°45	11°38	21°23	9°34	27°22	4°15	14°37	15°24	5°25	13°7	W17
T 18	23 47 45	25°2'16	17°34	9°39	0♍58	16°52	11°30	21°19	9°37	27°23	4°14	14°35	15°21	5°32	13°7	T 18
F 19	23 51 41	26°1'03	29°26	11°17	2°11	16°58	11°22	21°14	9°39	27°24	4°14	14°33	15°18	5°38	13°7	F 19
S 20	23 55 38	26°59'52	11♏18	12°58	3°23	17°3	11°15	21°10	9°42	27°26	4°14	14°30	15°15	5°45	13°R 7	S 20
S 21	23 59 34	27°58'43	23°14	14°40	4°34	17°8	11°8	21°5	9°45	27°27	4°13	14°28	15°12	5°52	13°7	S 21
M22	0 3 31	28°57'37	5♎16	16°25	5°46	17°12	11°0	21°0	9°48	27°28	4°13	14°25	15°8	5°59	13°7	M22
T 23	0 7 27	29°56'32	17°27	18°10	6°58	17°15	10°53	20°56	9°51	27°30	4°13	14°23	15°5	6°5	13°7	T 23
W24	0 11 24	0♎55'30	29°48	19°57	8°9	17°17	10°46	20°51	9°55	27°31	4°12	14°22	15°2	6°12	13°7	W24
T 25	0 15 20	1°54'30	12♎20	21°45	9°21	17°18	10°39	20°47	9°58	27°33	4°12	14°D22	14°59	6°19	13°6	T 25
F 26	0 19 17	2°53'32	25°5	23°33	10°33	17°R18	10°33	20°42	10°1	27°34	4°11	14°22	14°56	6°25	13°6	F 26
S 27	0 23 13	3°52'36	8♍3	25°21	11°44	17°17	10°26	20°38	10°4	27°36	4°11	14°22	14°53	6°32	13°5	S 27
S 28	0 27 10	4°51'41	21°14	27°9	12°56	17°16	10°19	20°33	10°7	27°37	4°10	14°23	14°49	6°39	13°5	S 28
M29	0 31 7	5°50'49	4♎39	28°57	14°7	17°13	10°13	20°29	10°10	27°39	4°10	14°24	14°46	6°46	13°4	M29
T 30	0 35 3	6♎49'58	18♎18	0♎44	15♍19	17♎10	10♎6	20♎25	10♍14	27♍40	4♏9	14♎25	14♎43	6♏52	13♏4	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
M 1	8n25	15s40	3n18	10n 6	2s23	3s44	0n29	13n 6	2s51	7s48	1s31	5s10	2s26	14s 7	0n23	17s55	1n40	9n26	11s47	5s53	6s24	14n36	17n46	4s39	
T 2	8 3	17 33	4 9	10 31	2 4	4 15	0 26	13 12	2 51	7 52	1 31	5 12	2 26	14 8	0 23	17 55	1 40	9 26	11 48	5 53	6 23	14 35	17 46	4 40	
W 3	7 41	18 27	4 47	10 55	1 45	4 46	0 23	13 17	2 50	7 55	1 31	5 14	2 26	14 9	0 23	17 56	1 40	9 26	11 48	5 53	6 22	14 33	17 46	4 40	
T 4	7 19	18 13	5 8	11 15	1 25	5 17	0 21	13 23	2 50	7 58	1 31	5 16	2 26	14 9	0 23	17 56	1 40	9 26	11 48	5 52	6 21	14 32	17 45	4 41	
F 5	6 56	16 49	5 11	11 31	1 6	5 47	0 18	13 28	2 49	8 1	1 31	5 17	2 26	14 10	0 23	17 56	1 40	9 26	11 48	5 51	6 19	14 31	17 45	4 41	
S 6	6 34	14 16	4 53	11 45	0 48	6 18	0 15	13 34	2 49	8 4	1 31	5 19	2 26	14 11	0 23	17 56	1 40	9 25	11 48	5 49	6 18	14 30	17 45	4 41	
S 7	6 11	10 45	4 15	11 54	0 30	6 49	0 12	13 39	2 48	8 7	1 31	5 21	2 26	14 12	0 23	17 57	1 40	9 25	11 49	5 48	6 17	14 28	17 44	4 42	
M 8	5 49	6 33	3 19	12 0	0 13	7 19	0 8	13 44	2 47	8 10	1 31	5 23	2 26	14 13	0 23	17 57	1 40	9 25	11 49	5 46	6 16	14 27	17 44	4 42	
T 9	5 26	1 59	2 11	12 2	0n 3	7 49	0 5	13 48	2 46	8 13	1 31	5 25	2 26	14 14	0 23	17 57	1 40	9 25	11 49	5 45	6 14	14 26	17 44	4 43	
W10	5 3	2n38	0 55	11 59	0 18	8 19	0 2	13 53	2 46	8 16	1 31	5 27	2 27	14 14	0 23	17 57	1 40	9 25	11 49	5 44	6 13	14 24	17 43	4 43	
T 11	4 41	6 59	0s23	11 53	0 32	8 49	0s 1	13 57	2 45	8 20	1 31	5 29	2 27	14 15	0 23	17 58	1 40	9 24	11 49	5 44	6 12	14 23	17 43	4 44	
F 12	4 18	10 50	1 37	11 43	0 45	9 19	0 4	14 2	2 44	8 23	1 31	5 31	2 27	14 16	0 23	17 58	1 40	9 24	11 50	5 45	6 11	14 22	17 43	4 44	
S 13	3 55	13 59	2 44	11 29	0 57	9 48	0 7	14 6	2 43	8 26	1 31	5 33	2 27	14 17	0 23	17 58	1 40	9 24	11 50	5 45	6 10	14 21	17 42	4 45	
S 14	3 31	16 20	3 40	11 12	1 8	10 18	0 11	14 9	2 42	8 29	1 31	5 34	2 27	14 18	0 23	17 59	1 40	9 24	11 50	5 46	6 8	14 19	17 42	4 45	
M15	3 8	17 49	4 24	10 51	1 17	10 47	0 14	14 13	2 41	8 32	1 31	5 36	2 27	14 19	0 23	17 59	1 40	9 23	11 50	5 46	6 7	14 18	17 41	4 46	
T 16	2 45	18 26	4 54	10 26	1 25	11 16	0 17	14 17	2 40	8 34	1 31	5 38	2 27	14 20	0 23	17 59	1 39	9 23	11 50	5 46	6 6	14 17	17 41	4 46	
W17	2 22	18 11	5 11	9 59	1 32	11 44	0 21	14 20	2 39	8 37	1 31	5 40	2 27	14 21	0 23	18 0	1 39	9 23	11 51	5 46	6 5	14 15	17 40	4 47	
T 18	1 59	17 8	5 15	9 29	1 38	12 13	0 24	14 23	2 38	8 40	1 31	5 42	2 27	14 22	0 23	18 0	1 39	9 23	11 51	5 46	6 3	14 14	17 40	4 47	
F 19	1 35	15 20	5 5	8 56	1 43	12 41	0 27	14 26	2 37	8 43	1 31	5 44	2 27	14 23	0 23	18 0	1 39	9 22	11 51	5 45	6 2	14 13	17 40	4 47	
S 20	1 12	12 54	4 42	8 21	1 47	13 9	0 31	14 29	2 35	8 46	1 31	5 46	2 27	14 24	0 23	18 1	1 39	9 22	11 51	5 44	6 1	14 11	17 39	4 48	
S 21	0 48	9 55	4 6	7 44	1 50	13 36	0 34	14 31	2 34	8 49	1 31	5 47	2 27	14 25	0 22	18 1	1 39	9 22	11 51	5 43	6 0	14 10	17 39	4 48	
M22	0 25	6 30	3 20	7 5	1 51	14 4	0 38	14 34	2 33	8 51	1 31	5 49	2 27	14 26	0 22	18 1	1 39	9 22	11 52	5 42	5 58	14 9	17 38	4 49	
T 23	0 1	2 46	2 23	6 25	1 53	14 31	0 41	14 36	2 31	8 54	1 31	5 51	2 27	14 26	0 22	18 2	1 39	9 21	11 52	5 41	5 57	14 8	17 38	4 49	
W24	0s22	1s 8	1 20	5 43	1 53	14 57	0 44	14 38	2 30	8 57	1 31	5 53	2 27	14 27	0 22	18 2	1 39	9 21	11 52	5 40	5 56	14 6	17 37	4 50	
T 25	0 46	5 3	0 11	5 0	1 52	15 24	0 48	14 39	2 28	8 59	1 31	5 55	2 27	14 28	0 22	18 2	1 39	9 21	11 52	5 40	5 55	14 5	17 37	4 50	
F 26	1 9	8 49	0n59	4 16	1 51	15 49	0 51	14 41	2 27	9 2	1 31	5 56	2 27	14 30	0 22	18 3	1 39	9 21	11 52	5 40	5 54	14 4	17 36	4 51	
S 27	1 33	12 12	2 8	3 31	1 49	16 15	0 55	14 42	2 25	9 4	1 31	5 58	2 27	14 31	0 22	18 3	1 39	9 20	11 53	5 41	5 52	14 2	17 36	4 51	
S 28	1 56	15 2	3 10	2 46	1 47	16 40	0 58	14 44	2 23	9 7	1 31	6 0	2 27	14 32	0 22	18 4	1 39	9 20	11 53	5 41	5 51	14 1	17 35	4 52	
M29	2 20	17 6	4 4	2 1	1 44	17 5	1 2	14 45	2 21	9 9	1 31	6 2	2 27	14 33	0 22	18 4	1 39	9 20	11 53	5 41	5 50	14 0	17 35	4 52	
T 30	2s43	18s14	4n45	1n14	1n40	17s30	1s 5	14n46	2s19	9s11	1s30	6s 3	2s27	14s34	0n22	18s 4	1n39	9n19	11s53	5s42	5s49	13ns58	17n34	4s53	

ASTRODIENST EPHEMERIS for the year 1642
geocentric

OCTOBER 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	0 39 0	7 ⁴⁹ 10	2 ³ 11	2 ⁴³ 32	16 ¹⁶ 30	17°R 6	10°R 0	20°R20	10 ¹⁶ 17	27 ¹⁶ 42	4°R 9	14°R25	14 ⁴⁰ 40	6 ⁵⁹ 59	13°R 3	W 1
T 2	0 42 56	8°48'23	16°16	4°18	17°41	17 ⁸ 0	9 ⁵⁴ 54	20 ¹⁶ 16	10°20	27°43	4 ¹¹ 8	14 ²⁵ 25	14°37	7° 6	13 ¹¹ 2	T 2
F 3	0 46 53	9°47'37	0 ³⁴ 34	6° 5	18°52	16°54	9°48	20°12	10°24	27°45	4° 8	14°25	14°34	7°12	13° 1	F 3
S 4	0 50 49	10°46'54	15° 0	7°50	20° 4	16°47	9°42	20° 8	10°27	27°47	4° 7	14°24	14°30	7°19	13° 0	S 4
S 5	0 54 46	11°46'12	29°31	9°35	21°15	16°40	9°37	20° 3	10°30	27°48	4° 6	14°24	14°27	7°26	12°59	S 5
M 6	0 58 42	12°45'32	14 ³ 3	11°20	22°26	16°31	9°31	19°59	10°34	27°50	4° 6	14°24	14°24	7°33	12°58	M 6
T 7	1 2 39	13°44'54	28°28	13° 3	23°37	16°21	9°26	19°55	10°37	27°52	4° 5	14°24	14°21	7°39	12°57	T 7
W 8	1 6 36	14°44'17	12 ⁴⁰ 43	14°46	24°48	16°11	9°21	19°51	10°41	27°54	4° 4	14°24	14°18	7°46	12°55	W 8
T 9	1 10 32	15°43'43	26°42	16°29	25°59	16° 0	9°16	19°47	10°44	27°55	4° 4	14°24	14°14	7°53	12°54	T 9
F 10	1 14 29	16°43'11	10 ²¹ 21	18°10	27°10	15°48	9°11	19°43	10°48	27°57	4° 3	14°24	14°11	7°59	12°53	F 10
S 11	1 18 25	17°42'41	23°40	19°51	28°20	15°35	9° 7	19°40	10°51	27°59	4° 2	14°23	14° 8	8° 6	12°51	S 11
S 12	1 22 22	18°42'14	6 ¹¹ 36	21°31	29°31	15°22	9° 2	19°36	10°55	28° 1	4° 2	14°23	14° 5	8°13	12°50	S 12
M13	1 26 18	19°41'49	19°13	23°11	0 ⁴² 42	15° 7	8°58	19°32	10°58	28° 3	4° 1	14°22	14° 2	8°20	12°48	M13
T 14	1 30 15	20°41'26	1 ³³ 33	24°50	1°52	14°52	8°54	19°29	11° 2	28° 4	4° 0	14°22	13°59	8°26	12°46	T 14
W15	1 34 11	21°41'05	13°39	26°28	3° 3	14°37	8°50	19°25	11° 5	28° 6	3°59	14°21	13°55	8°33	12°45	W15
T 16	1 38 8	22°40'46	25°36	28° 6	4°13	14°20	8°46	19°22	11° 9	28° 8	3°58	14°D21	13°52	8°40	12°43	T 16
F 17	1 42 5	23°40'30	7 ²⁸ 28	29°43	5°24	14° 3	8°42	19°18	11°12	28°10	3°58	14°22	13°49	8°46	12°41	F 17
S 18	1 46 1	24°40'16	19°21	1 ¹⁶ 19	6°34	13°45	8°39	19°15	11°16	28°12	3°57	14°22	13°46	8°53	12°39	S 18
S 19	1 49 58	25°40'04	1 ¹⁸ 18	2°55	7°44	13°27	8°36	19°11	11°20	28°14	3°56	14°23	13°43	9° 0	12°37	S 19
M20	1 53 54	26°39'55	13°24	4°31	8°55	13° 8	8°33	19° 8	11°23	28°16	3°55	14°25	13°40	9° 6	12°35	M20
T 21	1 57 51	27°39'47	25°42	6° 6	10° 5	12°49	8°30	19° 5	11°27	28°18	3°54	14°26	13°36	9°13	12°33	T 21
W22	2 1 47	28°39'42	8 ¹⁵ 15	7°40	11°15	12°29	8°27	19° 2	11°31	28°20	3°53	14°R26	13°33	9°20	12°30	W22
T 23	2 5 44	29°39'39	21° 5	9°14	12°25	12° 9	8°25	18°59	11°34	28°22	3°52	14°26	13°30	9°27	12°28	T 23
F 24	2 9 40	0 ¹⁶ 39'37	4 ¹¹ 11	10°47	13°34	11°49	8°23	18°56	11°38	28°24	3°51	14°25	13°27	9°33	12°26	F 24
S 25	2 13 37	1°39'38	17°34	12°20	14°44	11°28	8°21	18°54	11°42	28°26	3°50	14°24	13°24	9°40	12°23	S 25
S 26	2 17 33	2°39'40	1 ¹² 12	13°52	15°54	11° 7	8°19	18°51	11°45	28°28	3°50	14°21	13°20	9°47	12°21	S 26
M27	2 21 30	3°39'45	15° 1	15°24	17° 4	10°46	8°18	18°48	11°49	28°30	3°49	14°19	13°17	9°53	12°18	M27
T 28	2 25 27	4°39'51	29° 1	16°56	18°13	10°25	8°16	18°46	11°53	28°32	3°48	14°16	13°14	10° 0	12°16	T 28
W29	2 29 23	5°39'58	13 ³ 3	18°27	19°22	10° 3	8°15	18°43	11°57	28°34	3°47	14°14	13°11	10° 7	12°13	W29
T 30	2 33 20	6°40'07	27°16	19°57	20°32	9°42	8°14	18°41	12° 0	28°37	3°46	14°12	13° 8	10°14	12°10	T 30
F 31	2 37 16	7 ¹⁶ 40'18	11 ²⁷ 27	21 ¹⁶ 27	21 ¹⁴ 41	9 ²⁰ 20	8 ¹³ 13	18 ³⁹ 39	12 ¹⁶ 16	28 ¹⁶ 39	3 ¹¹ 45	14°D12	13 ⁴ 5	10 ²⁰ 20	12 ¹¹ 8	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	3s 6	18s18	5n10	0n28	1n37	17s54	1s 8	14n46	2s18	9s14	1s30	6s 5	2s27	14s35	0n22	18s 5
T 2	3 30	17 15	5 17	0s18	1 32	18 17	1 12	14 47	2 16	9 16	1 30	6 7	2 27	14 36	0 22	18 5
F 3	3 53	15 6	5 5	1 4	1 28	18 40	1 15	14 47	2 13	9 18	1 30	6 8	2 27	14 37	0 22	18 6
S 4	4 16	12 0	4 33	1 51	1 23	19 3	1 19	14 47	2 11	9 20	1 30	6 10	2 27	14 38	0 22	18 6
S 5	4 40	8 10	3 44	2 37	1 18	19 25	1 22	14 47	2 9	9 22	1 30	6 11	2 27	14 39	0 22	18 6
M 6	5 3	3 49	2 41	3 23	1 12	19 47	1 25	14 47	2 7	9 24	1 30	6 13	2 26	14 40	0 22	18 7
T 7	5 26	0n44	1 27	4 8	1 7	20 8	1 28	14 46	2 5	9 26	1 30	6 14	2 26	14 41	0 22	18 7
W 8	5 49	5 11	0 9	4 54	1 1	20 29	1 32	14 46	2 2	9 28	1 29	6 16	2 26	14 42	0 22	18 8
T 9	6 12	9 16	1s 8	5 39	0 55	20 49	1 35	14 45	2 0	9 29	1 29	6 17	2 26	14 43	0 22	18 8
F 10	6 35	12 45	2 19	6 23	0 48	21 9	1 38	14 44	1 57	9 31	1 29	6 19	2 26	14 44	0 22	18 9
S 11	6 58	15 28	3 21	7 8	0 42	21 28	1 41	14 43	1 55	9 33	1 29	6 20	2 26	14 45	0 22	18 9
S 12	7 21	17 20	4 11	7 51	0 36	21 47	1 45	14 41	1 52	9 34	1 29	6 22	2 26	14 47	0 22	18 9
M13	7 43	18 16	4 47	8 34	0 29	22 5	1 48	14 40	1 49	9 36	1 29	6 23	2 26	14 48	0 22	18 10
T 14	8 6	18 19	5 9	9 17	0 22	22 23	1 51	14 38	1 46	9 37	1 28	6 24	2 26	14 49	0 22	18 10
W15	8 28	17 31	5 17	9 59	0 16	22 40	1 54	14 36	1 44	9 38	1 28	6 26	2 26	14 50	0 22	18 11
T 16	8 50	15 58	5 11	10 41	0 9	22 56	1 57	14 34	1 41	9 40	1 28	6 27	2 26	14 51	0 22	18 11
F 17	9 12	13 44	4 52	11 21	0 2	23 12	2 0	14 32	1 38	9 41	1 28	6 28	2 25	14 52	0 22	18 12
S 18	9 34	10 56	4 20	12 2	0s 4	23 27	2 2	14 29	1 35	9 42	1 28	6 29	2 25	14 53	0 22	18 12
S 19	9 56	7 39	3 37	12 41	0 11	23 42	2 5	14 27	1 32	9 43	1 28	6 31	2 25	14 54	0 22	18 13
M20	10 18	4 1	2 44	13 20	0 18	23 56	2 8	14 24	1 29	9 44	1 27	6 32	2 25	14 56	0 22	18 13
T 21	10 40	0 9	1 42	13 58	0 25	24 9	2 11	14 22	1 25	9 45	1 27	6 33	2 25	14 57	0 22	18 14
W22	11 1	3s48	0 34	14 35	0 31	24 22	2 13	14 19	1 22	9 45	1 27	6 34	2 25	14 58	0 22	18 14
T 23	11 22	7 40	0n37	15 12	0 38	24 34	2 16	14 16	1 19	9 46	1 27	6 35	2 25	14 59	0 22	18 15
F 24	11 43	11 16	1 47	15 48	0 45	24 46	2 18	14 13	1 16	9 47	1 27	6 36	2 25	15 0	0 22	18 15
S 25	12 4	14 20	2 53	16 23	0 51	24 57	2 21	14 9	1 12	9 47	1 26	6 37	2 24	15 1	0 22	18 15
S 26	12 25	16 41	3 50	16 57	0 58	25 7	2 23	14 6	1 9	9 48	1 26	6 38	2 24	15 3	0 22	18 16
M27	12 46	18 5	4 35	17 30	1 4	25 16	2 26	14 3	1 5	9 48	1 26	6 39	2 24	15 4	0 22	18 16
T 28	13 6	18 25	5 4	18 3	1 10	25 25	2 28	13 59	1 2	9 49	1 26	6 40	2 24	15 5	0 22	18 17
W29	13 26	17 37	5 15	18 34	1 17	25 33	2 30	13 56	0 59	9 49	1 26	6 40	2 24	15 6	0 22	18 17
T 30	13 46	15 44	5 7	19 5	1 23	25 40	2 32	13 52	0 55	9 49	1 25	6 41	2 24	15 7	0 22	18 18
F 31	14s 6	12s53	4n40	19s35	1s28	25s47	2s34	13n49	0s52	9s49	1s25	6s42	2s23	15s 8	0n22	18s18

Julian Day Number = 2321061.5, Delta T = 48.41 sec
Ecliptic obliquity = 23°29'00, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°45'14, Lahiri = 18°52'15Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1642
geocentric

NOVEMBER 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	2 41 13	8♍40°30	25♋38	22♍57	22♌50	8°R59	8°R13	18°R37	12♍ 8	28♍41	3°R44	14♌13	13♌ 1	10♌27	12°R 5	S 1
S 2	2 45 9	9°40'44	9♋45	24°26	23°59	8♌38	8♋12	18♋34	12°11	28°43	3♌43	14°14	12°58	10°34	12♌ 2	S 2
M 3	2 49 6	10°40'59	23°49	25°55	25° 8	8°17	8°D12	18°33	12°15	28°45	3°42	14°16	12°55	10°40	11°59	M 3
T 4	2 53 2	11°41'15	7♍45	27°23	26°17	7°56	8°12	18°31	12°19	28°47	3°41	14°R17	12°52	10°47	11°56	T 4
W 5	2 56 59	12°41'33	21°33	28°51	27°25	7°36	8°13	18°29	12°23	28°50	3°40	14°17	12°49	10°54	11°53	W 5
T 6	3 0 56	13°41'53	5♌ 9	0♌18	28°34	7°16	8°13	18°27	12°26	28°52	3°38	14°15	12°45	11° 1	11°50	T 6
F 7	3 4 52	14°42'14	18°31	1°45	29°42	6°56	8°14	18°26	12°30	28°54	3°37	14°12	12°42	11° 7	11°47	F 7
S 8	3 8 49	15°42'37	1♌38	3°11	0♌50	6°37	8°15	18°24	12°34	28°56	3°36	14° 8	12°39	11°14	11°44	S 8
S 9	3 12 45	16°43'02	14°29	4°37	1°58	6°18	8°16	18°23	12°38	28°58	3°35	14° 2	12°36	11°21	11°41	S 9
M10	3 16 42	17°43'29	27° 3	6° 1	3° 6	5°59	8°17	18°22	12°41	29° 1	3°34	13°56	12°33	11°27	11°38	M10
T 11	3 20 38	18°43'57	9♌22	7°25	4°14	5°41	8°18	18°20	12°45	29° 3	3°33	13°50	12°30	11°34	11°34	T 11
W12	3 24 35	19°44'28	21°28	8°49	5°21	5°24	8°20	18°19	12°49	29° 5	3°32	13°46	12°26	11°41	11°31	W12
T 13	3 28 31	20°45'00	3♌25	10°11	6°29	5° 7	8°22	18°18	12°53	29° 7	3°31	13°42	12°23	11°47	11°28	T 13
F 14	3 32 28	21°45'33	15°17	11°32	7°36	4°51	8°24	18°18	12°56	29°10	3°30	13°41	12°20	11°54	11°24	F 14
S 15	3 36 25	22°46'09	27° 8	12°52	8°43	4°35	8°26	18°17	13° 0	29°12	3°29	13°D40	12°17	12° 1	11°21	S 15
S 16	3 40 21	23°46'46	9♍ 4	14°11	9°50	4°20	8°29	18°16	13° 4	29°14	3°28	13°41	12°14	12° 8	11°18	S 16
M17	3 44 18	24°47'25	21°10	15°28	10°57	4° 6	8°32	18°16	13° 7	29°16	3°26	13°43	12°11	12°14	11°14	M17
T 18	3 48 14	25°48'06	3♌31	16°43	12° 3	3°53	8°35	18°15	13°11	29°19	3°25	13°44	12° 7	12°21	11°11	T 18
W19	3 52 11	26°48'48	16°10	17°57	13°10	3°40	8°38	18°15	13°15	29°21	3°24	13°R45	12° 4	12°28	11° 7	W19
T 20	3 56 7	27°49'32	29°10	19° 8	14°16	3°28	8°41	18°15	13°18	29°23	3°23	13°44	12° 1	12°34	11° 4	T 20
F 21	4 0 4	28°50'17	12♍34	20°16	15°22	3°17	8°44	18°D15	13°22	29°25	3°22	13°40	11°58	12°41	11° 0	F 21
S 22	4 4 0	29°51'04	26°19	21°22	16°28	3° 7	8°48	18°15	13°26	29°28	3°21	13°35	11°55	12°48	10°57	S 22
S 23	4 7 57	0♌51°52	10♌24	22°24	17°33	2°57	8°52	18°15	13°29	29°30	3°20	13°28	11°51	12°54	10°53	S 23
M24	4 11 54	1°52'41	24°44	23°23	18°39	2°48	8°56	18°15	13°33	29°32	3°18	13°20	11°48	13° 1	10°49	M24
T 25	4 15 50	2°53'32	9♌31	24°17	19°44	2°40	9° 0	18°15	13°36	29°34	3°17	13°11	11°45	13° 8	10°46	T 25
W26	4 19 47	3°54'23	23°42	25° 6	20°48	2°33	9° 5	18°16	13°40	29°37	3°16	13° 4	11°42	13°15	10°42	W26
T 27	4 23 43	4°55'16	8♋ 9	25°49	21°53	2°27	9° 9	18°16	13°44	29°39	3°15	12°59	11°39	13°21	10°38	T 27
F 28	4 27 40	5°56'09	22°28	26°27	22°57	2°22	9°14	18°17	13°47	29°41	3°14	12°56	11°36	13°28	10°35	F 28
S 29	4 31 36	6°57'03	6♋35	26°57	24° 1	2°17	9°19	18°18	13°51	29°43	3°13	12°D55	11°32	13°35	10°31	S 29
S 30	4 35 33	7♌57°58	20♋31	27♌18	25♌ 5	2♌13	9♋24	18♋19	13♍54	29♍46	3♌12	12♌56	11♌29	13♌41	10♌27	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
S 1	14s25	9s17	3n56	20s 4	1s34	25s53	2s36	13n46	0s48	9s49	1s25	6s43	2s23	15s 9	0n22	18s19	1n38	9n11	11s57	5s37	5s 9	13n15	17n14	5s 5	
S 2	14 44	5 10	2 58	20 32	1 40	25 58	2 38	13 42	0 45	9 49	1 25	6 43	2 23	15 11	0 22	18 19	1 38	9 11	11 57	5 38	5 8	13 14	17 13	5 6	
M 3	15 3	0 47	1 50	20 58	1 45	26 3	2 39	13 39	0 41	9 49	1 24	6 44	2 23	15 12	0 22	18 20	1 38	9 10	11 58	5 38	5 7	13 12	17 13	5 6	
T 4	15 22	3n38	0 36	21 24	1 50	26 7	2 41	13 35	0 38	9 49	1 24	6 45	2 23	15 13	0 22	18 20	1 38	9 10	11 58	5 38	5 5	13 11	17 12	5 6	
W 5	15 41	7 48	0s40	21 49	1 55	26 10	2 43	13 32	0 34	9 48	1 24	6 45	2 23	15 14	0 22	18 21	1 38	9 10	11 58	5 38	5 4	13 9	17 11	5 7	
T 6	15 59	11 30	1 52	22 12	2 0	26 13	2 44	13 29	0 31	9 48	1 24	6 46	2 22	15 15	0 22	18 21	1 38	9 10	11 58	5 38	5 3	13 8	17 11	5 7	
F 7	16 17	14 33	2 56	22 35	2 5	26 14	2 45	13 25	0 27	9 47	1 24	6 46	2 22	15 16	0 22	18 22	1 38	9 9	11 58	5 37	5 2	13 7	17 10	5 7	
S 8	16 34	16 46	3 50	22 56	2 9	26 15	2 47	13 22	0 24	9 47	1 23	6 46	2 22	15 17	0 22	18 22	1 38	9 9	11 58	5 35	5 0	13 5	17 9	5 8	
S 9	16 52	18 5	4 31	23 16	2 13	26 16	2 48	13 19	0 21	9 46	1 23	6 47	2 22	15 19	0 22	18 23	1 38	9 9	11 58	5 33	4 59	13 4	17 8	5 8	
M10	17 9	18 29	4 58	23 35	2 16	26 15	2 49	13 16	0 17	9 46	1 23	6 47	2 22	15 20	0 22	18 23	1 38	9 9	11 58	5 30	4 58	13 2	17 8	5 8	
T 11	17 26	18 0	5 10	23 53	2 20	26 14	2 50	13 13	0 14	9 45	1 23	6 47	2 22	15 21	0 22	18 24	1 37	9 9	11 58	5 28	4 57	13 1	17 7	5 9	
W12	17 42	16 41	5 8	24 10	2 23	26 13	2 50	13 11	0 11	9 44	1 22	6 48	2 21	15 22	0 22	18 24	1 37	9 8	11 58	5 26	4 55	13 0	17 6	5 9	
T 13	17 58	14 40	4 53	24 25	2 25	26 10	2 51	13 8	0 7	9 43	1 22	6 48	2 21	15 23	0 22	18 25	1 37	9 8	11 58	5 25	4 54	12 58	17 6	5 9	
F 14	18 14	12 3	4 25	24 39	2 27	26 7	2 51	13 6	0 4	9 42	1 22	6 48	2 21	15 24	0 22	18 25	1 37	9 8	11 58	5 24	4 53	12 57	17 5	5 9	
S 15	18 30	8 56	3 46	24 51	2 29	26 3	2 52	13 3	0 1	9 41	1 22	6 48	2 21	15 25	0 22	18 26	1 37	9 8	11 58	5 24	4 52	12 55	17 4	5 10	
S 16	18 45	5 27	2 57	25 2	2 31	25 59	2 52	13 1	0n 2	9 40	1 21	6 48	2 21	15 27	0 22	18 26	1 37	9 7	11 58	5 25	4 50	12 54	17 4	5 10	
M17	19 0	1 41	2 0	25 12	2 31	25 54	2 52	12 59	0 5	9 39	1 21	6 48	2 20	15 28	0 22	18 27	1 37	9 7	11 58	5 25	4 49	12 53	17 3	5 10	
T 18	19 15	2s15	0 55	25 20	2 32	25 48	2 52	12 58	0 8	9 37	1 21	6 48	2 20	15 29	0 22	18 27	1 37	9 7	11 58	5 26	4 48	12 51	17 2	5 10	
W19	19 29	6 10	0n13	25 27	2 31	25 41	2 52	12 56	0 11	9 36	1 21	6 48	2 20	15 30	0 22	18 28	1 37	9 7	11 58	5 26	4 47	12 50	17 1	5 10	
T 20	19 43	9 55	1 23	25 32	2 30	25 34	2 52	12 55	0 14	9 34	1 21	6 48	2 20	15 31	0 22	18 28	1 37	9 7	11 58	5 26	4 46	12 48	17 1	5 11	
F 21	19 56	13 16	2 29	25 36	2 28	25 26	2 52	12 54	0 17	9 33	1 20	6 48	2 20	15 32	0 22	18 29	1 37	9 6	11 58	5 24	4 44	12 47	17 0	5 11	
S 22	20 9	15 58	3 29	25 38	2 26	25 18	2 51	12 53	0 20	9 31	1 20	6 48	2 19	15 33	0 22	18 29	1 37	9 6	11 58	5 22	4 43	12 46	16 59	5 11	
S 23	20 22	17 48	4 18	25 38	2 23	25 9	2 50	12 52	0 22	9 30	1 20	6 47	2 19	15 34	0 22	18 30	1 37	9 6	11 58	5 19	4 42	12 44	16 59	5 11	
M24	20 35	18 32	4 51	25 37	2 18	24 59	2 50	12 51	0 25	9 28	1 20	6 47	2 19	15 35	0 22	18 30	1 37	9 6	11 58	5 16	4 41	12 43	16 58	5 11	
T 25	20 47	18 4	5 6	25 35	2 13	24 49	2 49	12 51	0 28	9 26	1 19	6 47	2 19	15 36	0 22	18 31	1 37	9 6	11 58	5 13	4 39	12 41	16 57	5 12	
W26	20 58	16 27	5 2	25 31	2 7	24 38	2 48	12 51	0 30	9 24	1 19	6 46	2 19	15 37	0 22	18 31	1 37	9 6	11 58	5 10	4 38	12 40	16 57	5 12	
T 27	21 9	13 47	4 38	25 25	2 0	24 26	2 46	12 51	0 33	9 22	1 19	6 46	2 18	15 39	0 22	18 32	1 37	9 5	11 58	5 8	4 37	12 38	16 56	5 12	
F 28	21 20	10 19	3 57	25 17	1 51	24 14	2 45	12 52	0 35	9 20	1 19	6 46	2 18	15 40	0 22	18 32	1 37	9 5	11 58	5 7	4 36	12 37	16 55	5 12	
S 29	21 31	6 17	3 2	25 9	1 42	24 2	2 43	12 52	0 37	9 18	1 18	6 45	2 18	15 41	0 22	18 33	1 37	9 5	11 58	5 7	4 34	12 36	16 55	5 12	
S 30	21s41	1s58	1n57	24s58	1s31	23s48	2s42	12n53	0n40	9s16	1s18	6s45	2s18	15s42	0n22	18s33	1n37	9n 5	11s58	5s 7	4s33	12n34	16n54	5s12	

ASTRODIENST EPHEMERIS for the year 1642

geocentric

DECEMBER 1642 GC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	4 39 29	8♂58'53	4♂15	27♂31	26♂8	2°R10	9♂30	18♂20	13♂58	29♂48	3°R10	12♂57	11♂26	13♂48	10°R24	M 1
T 2	4 43 26	9°59'49	17°48	27°R35	27°11	2♂8	9°35	18°21	14°1	29°50	3♂9	12°R57	11°23	13°55	10°II20	T 2
W 3	4 47 23	11° 0'46	1♂9	27°28	28°14	2° 7	9°41	18°22	14° 5	29°52	3° 8	12°55	11°20	14° 2	10°16	W 3
T 4	4 51 19	12° 1'44	14°20	27°10	29°17	2°D 6	9°47	18°23	14° 8	29°55	3° 7	12°51	11°17	14° 8	10°13	T 4
F 5	4 55 16	13° 2'42	27°20	26°40	0♂19	2° 7	9°53	18°24	14°11	29°57	3° 6	12°44	11°13	14°15	10° 9	F 5
S 6	4 59 12	14° 3'41	10♂9	25°59	1°20	2° 8	9°59	18°26	14°15	29°59	3° 5	12°35	11°10	14°22	10° 5	S 6
S 7	5 3 9	15° 4'41	22°46	25° 7	2°22	2°10	10° 6	18°28	14°18	0♂1	3° 4	12°23	11° 7	14°28	10° 2	S 7
M 8	5 7 5	16° 5'42	5♂11	24° 5	3°23	2°12	10°12	18°29	14°21	0° 3	3° 3	12°11	11° 4	14°35	9°58	M 8
T 9	5 11 2	17° 6'44	17°25	22°55	4°23	2°16	10°19	18°31	14°25	0° 6	3° 1	11°59	11° 1	14°42	9°54	T 9
W10	5 14 59	18° 7'47	29°28	21°37	5°23	2°20	10°26	18°33	14°28	0° 8	3° 0	11°48	10°57	14°48	9°51	W10
T 11	5 18 55	19° 8'50	11♂23	20°16	6°23	2°25	10°33	18°35	14°31	0°10	2°59	11°39	10°54	14°55	9°47	T 11
F 12	5 22 52	20° 9'54	23°13	18°53	7°22	2°30	10°40	18°37	14°35	0°12	2°58	11°33	10°51	15° 2	9°44	F 12
S 13	5 26 48	21°11'00	5♂9	17°31	8°21	2°36	10°48	18°39	14°38	0°14	2°57	11°29	10°48	15° 9	9°40	S 13
S 14	5 30 45	22°12'05	16°55	16°13	9°19	2°43	10°55	18°42	14°41	0°16	2°56	11°28	10°45	15°15	9°36	S 14
M15	5 34 41	23°13'12	28°58	15° 2	10°17	2°51	11° 3	18°44	14°44	0°18	2°55	11°D28	10°42	15°22	9°33	M15
T 16	5 38 38	24°14'20	11♂15	13°59	11°14	2°59	11°11	18°47	14°47	0°21	2°54	11°R28	10°38	15°29	9°29	T 16
W17	5 42 34	25°15'28	23°53	13° 6	12°11	3° 8	11°19	18°49	14°50	0°23	2°53	11°27	10°35	15°35	9°26	W17
T 18	5 46 31	26°16'37	6♂54	12°23	13° 7	3°18	11°27	18°52	14°53	0°25	2°52	11°25	10°32	15°42	9°22	T 18
F 19	5 50 28	27°17'47	20°53	11°51	14° 2	3°28	11°35	18°55	14°56	0°27	2°51	11°20	10°29	15°49	9°19	F 19
S 20	5 54 24	28°18'57	4♂21	11°30	14°57	3°39	11°44	18°58	14°59	0°29	2°50	11°12	10°26	15°55	9°15	S 20
S 21	5 58 21	29°20'08	18°44	11°19	15°52	3°51	11°52	19° 1	15° 2	0°31	2°49	11° 1	10°23	16° 2	9°12	S 21
M22	6 2 17	0♂21'19	3♂27	11°D18	16°45	4° 3	12° 1	19° 4	15° 5	0°33	2°48	10°50	10°19	16° 9	9° 9	M22
T 23	6 6 14	1°22'30	18°22	11°26	17°38	4°16	12°10	19° 7	15° 8	0°35	2°47	10°38	10°16	16°16	9° 5	T 23
W24	6 10 10	2°23'42	3♂20	11°42	18°31	4°29	12°19	19°11	15°11	0°37	2°46	10°27	10°13	16°22	9° 2	W24
T 25	6 14 7	3°24'53	18°11	12° 6	19°22	4°43	12°28	19°14	15°14	0°39	2°45	10°19	10°10	16°29	8°59	T 25
F 26	6 18 3	4°26'04	2♂49	12°38	20°13	4°57	12°38	19°18	15°17	0°41	2°44	10°13	10° 7	16°36	8°55	F 26
S 27	6 22 0	5°27'15	17° 9	13°15	21° 3	5°12	12°47	19°21	15°19	0°43	2°43	10°10	10° 3	16°42	8°52	S 27
S 28	6 25 57	6°28'26	1♂8	13°58	21°52	5°28	12°57	19°25	15°22	0°45	2°42	10°10	10° 0	16°49	8°49	S 28
M29	6 29 53	7°29'36	14°47	14°46	22°40	5°44	13° 6	19°29	15°25	0°47	2°41	10° 9	9°57	16°56	8°46	M29
T 30	6 33 50	8°30'47	28° 8	15°38	23°28	6° 0	13°16	19°32	15°27	0°49	2°40	10° 9	9°54	17° 2	8°43	T 30
W31	6 37 46	9♂31'56	11♂13	16♂35	24♂14	6♂17	13♂26	19♂36	15♂30	0♂50	2♂39	10♂6	9♂51	17♂9	8♂40	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	decl lat
M 1	21s50	2n24	0n46	24s46	1s18	23s35	2s40	12n54	0n42	9s14	1s18	6s44	2s18	15s43	0n22	18s33
T 2	21 59	6 36	0s26	24 32	1 4	23 20	2 38	12 56	0 44	9 11	1 18	6 43	2 17	15 44	0 22	18 34
W 3	22 8	10 24	1 36	24 17	0 49	23 5	2 36	12 57	0 46	9 9	1 18	6 43	2 17	15 45	0 22	18 34
T 4	22 16	13 38	2 40	24 0	0 32	22 50	2 33	12 59	0 48	9 7	1 17	6 42	2 17	15 46	0 22	18 35
F 5	22 24	16 8	3 34	23 41	0 15	22 34	2 31	13 1	0 50	9 4	1 17	6 41	2 17	15 47	0 22	18 35
S 6	22 32	17 47	4 16	23 21	0n 4	22 18	2 28	13 3	0 52	9 1	1 17	6 41	2 17	15 48	0 22	18 36
S 7	22 39	18 32	4 45	23 0	0 24	22 1	2 25	13 6	0 54	8 59	1 17	6 40	2 16	15 49	0 22	18 36
M 8	22 45	18 23	5 0	22 37	0 44	21 44	2 22	13 8	0 56	8 56	1 17	6 39	2 16	15 50	0 22	18 37
T 9	22 51	17 22	5 1	22 13	1 4	21 27	2 19	13 11	0 58	8 53	1 16	6 38	2 16	15 51	0 22	18 37
W10	22 57	15 36	4 49	21 49	1 24	21 9	2 15	13 14	1 0	8 51	1 16	6 37	2 16	15 52	0 22	18 38
T 11	23 2	13 10	4 23	21 25	1 43	20 50	2 12	13 17	1 1	8 48	1 16	6 36	2 16	15 53	0 22	18 38
F 12	23 7	10 14	3 47	21 1	2 0	20 31	2 8	13 21	1 3	8 45	1 16	6 35	2 15	15 54	0 22	18 38
S 13	23 11	6 53	3 1	20 38	2 16	20 12	2 4	13 24	1 4	8 42	1 16	6 34	2 15	15 55	0 22	18 39
S 14	23 15	3 14	2 7	20 18	2 29	19 53	1 59	13 28	1 6	8 39	1 15	6 33	2 15	15 56	0 22	18 39
M15	23 19	0s36	1 6	19 59	2 40	19 33	1 55	13 32	1 7	8 36	1 15	6 32	2 15	15 56	0 22	18 40
T 16	23 21	4 29	0 1	19 43	2 49	19 12	1 50	13 37	1 9	8 32	1 15	6 31	2 15	15 57	0 22	18 40
W17	23 24	8 16	1n 5	19 31	2 55	18 52	1 46	13 41	1 10	8 29	1 15	6 29	2 14	15 58	0 22	18 41
T 18	23 26	11 47	2 11	19 21	3 0	18 31	1 41	13 46	1 12	8 26	1 15	6 28	2 14	15 59	0 22	18 41
F 19	23 27	14 49	3 11	19 15	3 2	18 10	1 35	13 50	1 13	8 22	1 14	6 27	2 14	16 0	0 22	18 41
S 20	23 28	17 6	4 1	19 12	3 2	17 49	1 30	13 55	1 14	8 19	1 14	6 25	2 14	16 1	0 22	18 42
S 21	23 29	18 23	4 38	19 12	3 0	17 27	1 24	14 0	1 15	8 16	1 14	6 24	2 14	16 2	0 22	18 42
M22	23 29	18 28	4 58	19 15	2 57	17 5	1 18	14 6	1 17	8 12	1 14	6 23	2 13	16 3	0 22	18 43
T 23	23 29	17 18	4 58	19 20	2 53	16 43	1 12	14 11	1 18	8 9	1 14	6 21	2 13	16 3	0 22	18 43
W24	23 28	14 57	4 37	19 28	2 48	16 21	1 6	14 16	1 19	8 5	1 13	6 20	2 13	16 4	0 22	18 43
T 25	23 26	11 38	3 58	19 37	2 42	15 59	0 59	14 22	1 20	8 1	1 13	6 18	2 13	16 5	0 22	18 44
F 26	23 25	7 38	3 4	19 47	2 35	15 36	0 53	14 28	1 21	7 57	1 13	6 17	2 13	16 6	0 22	18 44
S 27	23 22	3 16	1 58	19 59	2 28	15 14	0 46	14 34	1 22	7 54	1 13	6 15	2 12	16 7	0 22	18 45
S 28	23 19	1n11	0 48	20 12	2 20	14 51	0 38	14 40	1 23	7 50	1 13	6 13	2 12	16 8	0 22	18 45
M29	23 16	5 28	0s24	20 26	2 12	14 28	0 31	14 46	1 24	7 46	1 12	6 12	2 12	16 8	0 22	18 45
T 30	23 13	9 22	1 33	20 40	2 3	14 5	0 23	14 53	1 25	7 42	1 12	6 10	2 12	16 9	0 22	18 46
W31	23s 8	12n45	2s36	20s54	1n55	13s42	0s15	14n59	1n26	7s38	1s12	6s 8	2s12	16s10	0n22	18s46

Julian Day Number = 2321122.5, Delta T = 48.29 sec
 Ecliptic obliquity = 23°28'59", Nutation = 0°00'03", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 19°45'22", Lahiri = 18°52'23"Greg. Calendar