Astrodienst Ephemeris Tables

for the year 1637

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 AG, Dammstr. 23, CH-8702 Zollikon / Zürich, www.astro.com / order@astro.com

ASTRODIENST EPHEMERIS for the year 1637
geocentric

JANUARY 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 43 31	11♑ 1'33	2♓18	21♐11	26♏33	27♒ 3	4♎46	15♑48	18♎31	18♏10	26°R50	4♒29	5♒49	13♐11	4°R21	T 1
F 2	6 47 27	12° 2'43	15° 3	22°34	27°42	27°50	4°50	15°55	18°32	18°12	26♉49	4°31	5°46	13°17	4♉21	F 2
S 3	6 51 24	13° 3'54	28° 6	23°58	28°51	28°36	4°53	16° 3	18°33	18°13	26°49	4°32	5°43	13°24	4°20	S 3
S 4	6 55 20	14° 5'03	11♈28	25°22	0♐ 0	29°23	4°56	16°10	18°34	18°15	26°48	4°R33	5°40	13°31	4°19	S 4
M 5	6 59 17	15° 6'13	25°13	26°48	1°10	0♓ 9	4°58	16°17	18°35	18°16	26°47	4°33	5°36	13°37	4°19	M 5
T 6	7 3 13	16° 7'21	9♉21	28°14	2°19	0°56	5° 1	16°24	18°36	18°18	26°47	4°32	5°33	13°44	4°18	T 6
W 7	7 7 10	17° 8'29	23°50	29°40	3°29	1°42	5° 3	16°31	18°37	18°19	26°46	4°30	5°30	13°51	4°18	W 7
T 8	7 11 7	18° 9'37	8♊37	1♑ 8	4°39	2°29	5° 6	16°38	18°38	18°20	26°45	4°27	5°27	13°57	4°18	T 8
F 9	7 15 3	19°10'44	23°35	2°36	5°49	3°15	5° 8	16°45	18°39	18°22	26°45	4°25	5°24	14° 4	4°17	F 9
S 10	7 19 0	20°11'50	8♋37	4° 5	6°59	4° 1	5° 9	16°52	18°40	18°23	26°44	4°24	5°21	14°11	4°17	S 10
S 11	7 22 56	21°12'55	23°34	5°34	8°10	4°48	5°11	16°59	18°40	18°24	26°43	4°23	5°17	14°18	4°17	S 11
M12	7 26 53	22°14'01	8♌17	7° 4	9°20	5°34	5°13	17° 6	18°41	18°26	26°43	4°D23	5°14	14°24	4°17	M12
T 13	7 30 49	23°15'05	22°39	8°35	10°30	6°20	5°14	17°13	18°41	18°27	26°42	4°23	5°11	14°31	4°D17	T 13
W14	7 34 46	24°16'09	6♍37	10° 6	11°41	7° 7	5°15	17°20	18°42	18°28	26°42	4°24	5° 8	14°38	4°17	W14
T 15	7 38 42	25°17'13	20° 9	11°38	12°52	7°53	5°16	17°27	18°42	18°29	26°41	4°25	5° 5	14°44	4°17	T 15
F 16	7 42 39	26°18'16	3♎15	13°10	14° 3	8°39	5°17	17°34	18°43	18°30	26°41	4°26	5° 1	14°51	4°17	F 16
S 17	7 46 36	27°19'18	15°57	14°43	15°13	9°26	5°17	17°42	18°43	18°31	26°40	4°26	4°58	14°58	4°17	S 17
S 18	7 50 32	28°20'20	28°20	16°17	16°24	10°12	5°17	17°49	18°43	18°32	26°40	4°R26	4°55	15° 4	4°18	S 18
M19	7 54 29	29°21'22	10♏28	17°51	17°36	10°58	5°R18	17°56	18°44	18°33	26°39	4°26	4°52	15°11	4°18	M19
T 20	7 58 25	0♒22'23	22°25	19°25	18°47	11°44	5°18	18° 3	18°44	18°34	26°39	4°26	4°49	15°18	4°18	T 20
W21	8 2 22	1°23'24	4♐17	21° 1	19°58	12°30	5°17	18° 9	18°44	18°35	26°38	4°26	4°46	15°24	4°19	W21
T 22	8 6 18	2°24'24	16° 6	22°37	21° 9	13°17	5°17	18°16	18°R44	18°36	26°38	4°25	4°42	15°31	4°19	T 22
F 23	8 10 15	3°25'23	27°57	24°14	22°21	14° 3	5°16	18°23	18°44	18°37	26°38	4°25	4°39	15°38	4°20	F 23
S 24	8 14 12	4°26'21	9♑54	25°51	23°32	14°49	5°16	18°30	18°44	18°38	26°37	4°D25	4°36	15°45	4°21	S 24
S 25	8 18 8	5°27'18	21°58	27°29	24°44	15°35	5°14	18°37	18°44	18°39	26°37	4°25	4°33	15°51	4°21	S 25
M26	8 22 5	6°28'15	4♒11	29° 8	25°55	16°21	5°13	18°44	18°44	18°40	26°37	4°R25	4°30	15°58	4°22	M26
T 27	8 26 1	7°29'10	16°36	0♒47	27° 7	17° 7	5°12	18°51	18°43	18°41	26°36	4°25	4°27	16° 5	4°23	T 27
W28	8 29 58	8°30'04	29°13	2°27	28°19	17°53	5°10	18°58	18°43	18°41	26°36	4°25	4°23	16°11	4°24	W28
T 29	8 33 54	9°30'57	12♓ 3	4° 8	29°31	18°39	5° 9	19° 5	18°43	18°42	26°36	4°24	4°20	16°18	4°25	T 29
F 30	8 37 51	10°31'49	25° 6	5°49	0♑43	19°25	5° 7	19°11	18°42	18°43	26°35	4°23	4°17	16°25	4°26	F 30
S 31	8 41 47	11♒32'39	8♈24	7♒32	1♑54	20♓11	5♎ 4	19♑18	18♎42	18♏43	26♉35	4♒23	4♒14	16♐31	4♉27	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		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	
T 1	23 s 2	8 s23	2n27	22 s39	0n32	16 s48	2n42	13 s30	1 s 2	0 s40	1n20	22 s23	0n10	6 s41	0n38	15 s36	1n45	6n45	13 s 4	19 s11	18 s51	26 s29	11n43	1 s22	T 1
F 2	22 56	2 45	3 25	22 53	0 24	17 5	2 40	13 13	1 2	0 41	1 21	22 22	0 10	6 41	0 38	15 36	1 45	6 45	13 4	19 10	18 52	26 30	11 43	1 22	F 2
S 3	22 51	3n 8	4 14	23 5	0 16	17 21	2 39	12 56	1 1	0 42	1 21	22 21	0 10	6 42	0 39	15 37	1 45	6 45	13 4	19 10	18 53	26 30	11 42	1 22	S 3
S 4	22 44	9 0	4 51	23 16	0 8	17 38	2 38	12 39	1 0	0 43	1 21	22 21	0 10	6 42	0 39	15 37	1 45	6 45	13 3	19 10	18 54	26 30	11 42	1 22	S 4
M 5	22 38	14 36	5 12	23 26	0 1	17 53	2 36	12 22	0 59	0 44	1 22	22 20	0 10	6 42	0 39	15 37	1 45	6 46	13 3	19 10	18 54	26 30	11 42	1 22	M 5
T 6	22 31	19 36	5 15	23 35	0 s 7	18 9	2 34	12 5	0 59	0 45	1 22	22 19	0 10	6 43	0 39	15 38	1 45	6 46	13 3	19 10	18 55	26 31	11 42	1 22	T 6
W 7	22 23	23 35	4 58	23 44	0 14	18 24	2 32	11 47	0 58	0 45	1 22	22 18	0 10	6 43	0 39	15 38	1 45	6 46	13 3	19 11	18 56	26 31	11 42	1 22	W 7
T 8	22 15	26 5	4 22	23 51	0 22	18 39	2 31	11 30	0 57	0 46	1 22	22 17	0 10	6 43	0 39	15 38	1 45	6 46	13 2	19 11	18 57	26 31	11 42	1 22	T 8
F 9	22 7	26 47	3 27	23 56	0 29	18 53	2 29	11 13	0 56	0 47	1 23	22 17	0 10	6 43	0 39	15 39	1 45	6 46	13 2	19 12	18 58	26 32	11 41	1 22	F 9
S 10	21 58	25 30	2 18	24 1	0 36	19 7	2 27	10 55	0 56	0 47	1 23	22 16	0 9	6 44	0 39	15 39	1 45	6 46	13 2	19 12	18 58	26 32	11 41	1 22	S 10
S 11	21 49	22 24	1 0	24 5	0 42	19 20	2 24	10 37	0 55	0 48	1 23	22 15	0 9	6 44	0 39	15 39	1 45	6 46	13 2	19 12	18 59	26 32	11 41	1 22	S 11
M12	21 39	17 53	0 s22	24 7	0 49	19 33	2 22	10 20	0 54	0 48	1 23	22 14	0 9	6 44	0 39	15 40	1 45	6 46	13 1	19 12	19 0	26 32	11 41	1 22	M12
T 13	21 29	12 25	1 40	24 8	0 55	19 46	2 20	10 2	0 53	0 48	1 24	22 13	0 9	6 44	0 39	15 40	1 45	6 46	13 1	19 12	19 1	26 33	11 41	1 22	T 13
W14	21 18	6 28	2 49	24 7	1 1	19 58	2 18	9 44	0 53	0 48	1 24	22 13	0 9	6 45	0 39	15 40	1 45	6 47	13 1	19 12	19 1	26 33	11 41	1 22	W14
T 15	21 7	0 25	3 47	24 6	1 7	20 9	2 15	9 26	0 52	0 48	1 24	22 12	0 9	6 45	0 39	15 40	1 46	6 47	13 1	19 12	19 2	26 33	11 41	1 22	T 15
F 16	20 56	5 s27	4 32	24 3	1 13	20 20	2 13	9 8	0 51	0 48	1 25	22 11	0 9	6 45	0 39	15 41	1 46	6 47	13 0	19 12	19 3	26 33	11 41	1 22	F 16
S 17	20 44	10 55	5 1	23 58	1 18	20 31	2 10	8 50	0 50	0 48	1 25	22 10	0 9	6 45	0 39	15 41	1 46	6 47	13 0	19 11	19 4	26 34	11 41	1 22	S 17
S 18	20 32	15 49	5 16	23 52	1 23	20 41	2 7	8 31	0 50	0 48	1 25	22 9	0 9	6 45	0 39	15 41	1 46	6 47	13 0	19 11	19 4	26 34	11 42	1 22	S 18
M19	20 20	19 59	5 16	23 45	1 28	20 50	2 5	8 13	0 49	0 48	1 25	22 8	0 9	6 45	0 39	15 41	1 46	6 47	13 0	19 11	19 5	26 34	11 42	1 22	M19
T 20	20 7	23 16	5 2	23 37	1 33	20 59	2 2	7 55	0 48	0 48	1 26	22 7	0 9	6 45	0 39	15 42	1 46	6 48	12 59	19 11	19 6	26 34	11 42	1 22	T 20
W21	19 53	25 33	4 35	23 27	1 37	21 8	1 59	7 36	0 47	0 47	1 26	22 7	0 9	6 45	0 39	15 42	1 46	6 48	12 59	19 12	19 7	26 34	11 42	1 22	W21
T 22	19 40	26 42	3 57	23 15	1 41	21 16	1 56	7 18	0 46	0 47	1 26	22 6	0 9	6 45	0 39	15 42	1 46	6 48	12 59	19 12	19 8	26 34	11 42	1 22	T 22
F 23	19 26	26 37	3 9	23 2	1 45	21 23	1 53	7 0	0 46	0 47	1 26	22 5	0 9	6 45	0 39	15 42	1 46	6 48	12 58	19 12	19 8	26 35	11 42	1 22	F 23
S 24	19 11	25 19	2 12	22 48	1 49	21 30	1 50	6 41	0 45	0 46	1 27	22 4	0 8	6 45	0 39	15 42	1 46	6 48	12 58	19 12	19 9	26 35	11 43	1 22	S 24
S 25	18 57	22 49	1 9	22 32	1 52	21 36	1 47	6 22	0 44	0 45	1 27	22 3	0 8	6 45	0 39	15 43	1 46	6 49	12 58	19 12	19 10	26 35	11 43	1 22	S 25
M26	18 42	19 16	0 1	22 15	1 55	21 41	1 44	6 4	0 43	0 45	1 27	22 2	0 8	6 45	0 39	15 43	1 46	6 49	12 58	19 12	19 11	26 35	11 43	1 22	M26
T 27	18 26	14 49	1n 7	21 56	1 57	21 46	1 41	5 45	0 43	0 44	1 28	22 1	0 8	6 45	0 39	15 43	1 46	6 49	12 57	19 12	19 11	26 35	11 43	1 22	T 27
W28	18 10	9 41	2 13	21 35	1 59	21 51	1 38	5 26	0 42	0 43	1 28	22 0	0 8	6 45	0 39	15 43	1 46	6 49	12 57	19 12	19 12	26 35	11 44	1 22	W28
T 29	17 54	4 4	3 14	21 14	2 1	21 54	1 35	5 8	0 41	0 42	1 28	22 0	0 8	6 44	0 39	15 43	1 46	6 49	12 57	19 12	19 13	26 35	11 44	1 22	T 29
F 30	17 38	1n49	4 6	20 50	2 3	21 57	1 32	4 49	0 40	0 41	1 28	21 59	0 8	6 44	0 39	15 43	1 46	6 50	12 56	19 12	19 14	26 36	11 44	1 22	F 30
S 31	17 s21	7n42	4n45	20 s25	2 s 4	22 s 0	1n28	4 s30	0 s39	0 s40	1n29	21 s58	0n 8	6 s44	0n39	15 s43	1n46	6n50	12 s56	19 s12	19 s14	26 s36	11n45	1 s22	S 31

Julian Day Number = 2318962.5, Delta T = 52.58 sec
Ecliptic obliquity = 23°29'16, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'26, Lahiri = 18°47'26Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

FEBRUARY 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 45 44	12♒33'28	21♈55	9♒15	3♉ 6	20♓57	5°R 2	19♉25	18°R41	18♏44	26°R35	4°R22	4♒11	16♐38	4♑28	S 1
M 2	8 49 40	13°34'15	5♑41	10°59	4°18	21°43	5♎ 0	19°32	18♎41	18°45	26♑35	4♒21	4° 7	16°45	4°30	M 2
T 3	8 53 37	14°35'00	19°40	12°43	5°31	22°28	4°57	19°38	18°40	18°45	26°35	4°D21	4° 4	16°51	4°31	T 3
W 4	8 57 34	15°35'45	3♊52	14°29	6°43	23°14	4°54	19°45	18°39	18°46	26°35	4°22	4° 1	16°58	4°32	W 4
T 5	9 1 30	16°36'27	18°16	16°15	7°55	24° 0	4°51	19°51	18°39	18°46	26°35	4°23	3°58	17° 5	4°34	T 5
F 6	9 5 27	17°37'08	2♋47	18° 2	9° 7	24°46	4°48	19°58	18°38	18°47	26°35	4°24	3°55	17°11	4°35	F 6
S 7	9 9 23	18°37'47	17°21	19°50	10°19	25°31	4°44	20° 5	18°37	18°47	26°34	4°25	3°52	17°18	4°37	S 7
S 8	9 13 20	19°38'25	1♌53	21°38	11°32	26°17	4°41	20°11	18°36	18°47	26°34	4°R25	3°48	17°25	4°38	S 8
M 9	9 17 16	20°39'01	16°17	23°28	12°44	27° 3	4°37	20°18	18°35	18°48	26°D34	4°25	3°45	17°32	4°40	M 9
T 10	9 21 13	21°39'35	0♍28	25°17	13°56	27°48	4°33	20°24	18°34	18°48	26°34	4°24	3°42	17°38	4°42	T 10
W11	9 25 10	22°40'08	14°21	27° 8	15° 9	28°34	4°29	20°30	18°33	18°48	26°35	4°22	3°39	17°45	4°43	W11
T 12	9 29 6	23°40'39	27°53	28°59	16°21	29°19	4°25	20°37	18°32	18°48	26°35	4°19	3°36	17°52	4°45	T 12
F 13	9 33 3	24°41'09	11♎ 2	0♓51	17°34	0♈ 5	4°20	20°43	18°31	18°49	26°35	4°16	3°33	17°58	4°47	F 13
S 14	9 36 59	25°41'38	23°50	2°42	18°46	0°50	4°16	20°49	18°30	18°49	26°35	4°13	3°29	18° 5	4°49	S 14
S 15	9 40 56	26°42'05	6♏17	4°35	19°59	1°35	4°11	20°55	18°29	18°49	26°35	4°10	3°26	18°12	4°51	S 15
M16	9 44 52	27°42'31	18°28	6°27	21°12	2°21	4° 6	21° 2	18°27	18°49	26°35	4° 9	3°23	18°18	4°53	M16
T 17	9 48 49	28°42'56	0♐28	8°19	22°24	3° 6	4° 1	21° 8	18°26	18°49	26°35	4°D 9	3°20	18°25	4°55	T 17
W18	9 52 45	29°43'19	12°20	10°10	23°37	3°51	3°56	21°14	18°25	18°R49	26°35	4° 9	3°17	18°32	4°57	W18
T 19	9 56 42	0♓43'41	24° 9	12° 1	24°50	4°36	3°50	21°20	18°23	18°49	26°36	4°11	3°13	18°38	4°59	T 19
F 20	10 0 39	1°44'01	6♉ 2	13°51	26° 3	5°22	3°45	21°26	18°22	18°49	26°36	4°13	3°10	18°45	5° 2	F 20
S 21	10 4 35	2°44'20	18° 1	15°40	27°15	6° 7	3°39	21°32	18°20	18°49	26°36	4°14	3° 7	18°52	5° 4	S 21
S 22	10 8 32	3°44'37	0♒11	17°27	28°28	6°52	3°33	21°38	18°19	18°49	26°36	4°R15	3° 4	18°58	5° 6	S 22
M23	10 12 28	4°44'53	12°36	19°12	29°41	7°37	3°27	21°43	18°17	18°49	26°37	4°15	3° 1	19° 5	5° 9	M23
T 24	10 16 25	5°45'07	25°16	20°55	0♒54	8°22	3°21	21°49	18°16	18°49	26°37	4°13	2°58	19°12	5°11	T 24
W25	10 20 21	6°45'19	8♓14	22°34	2° 7	9° 7	3°15	21°55	18°14	18°48	26°37	4°10	2°54	19°18	5°14	W25
T 26	10 24 18	7°45'29	21°28	24°10	3°20	9°52	3° 9	22° 1	18°12	18°48	26°38	4° 5	2°51	19°25	5°16	T 26
F 27	10 28 14	8°45'37	4♈57	25°41	4°33	10°37	3° 2	22° 6	18°11	18°48	26°38	3°59	2°48	19°32	5°19	F 27
S 28	10 32 11	9♓45'44	18♈39	27♓ 8	5♒46	11♈22	2♎56	22♉12	18♎ 9	18♏48	26♑38	3♒53	2♒45	19♐39	5♑22	S 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
S 1	17s 4	13n20	5n10	19s59	2s 4	22s 2	1n25	4s11	0s39	0s39	1n29	21s57	0n 8	6s44	0n39	15s43	1n47	6n50	12s56	19s12	19s15	26s36	11n45	1s22
M 2	16 47	18 25	5 17	19 30	2 5	22 3	1 22	3 53	0 38	0 37	1 29	21 56	0 8	6 44	0 39	15 44	1 47	6 50	12 55	19 13	19 16	26 36	11 46	1 22
T 3	16 29	22 35	5 6	19 1	2 4	22 4	1 19	3 34	0 37	0 36	1 29	21 55	0 8	6 43	0 39	15 44	1 47	6 51	12 55	19 13	19 17	26 36	11 46	1 22
W 4	16 12	25 29	4 36	18 30	2 4	22 4	1 15	3 15	0 36	0 35	1 30	21 54	0 8	6 43	0 39	15 44	1 47	6 51	12 55	19 12	19 17	26 36	11 46	1 22
T 5	15 53	26 46	3 49	17 57	2 3	22 3	1 12	2 56	0 36	0 33	1 30	21 53	0 8	6 43	0 40	15 44	1 47	6 51	12 55	19 12	19 18	26 36	11 47	1 22
F 6	15 35	26 14	2 46	17 23	2 1	22 2	1 9	2 37	0 35	0 32	1 30	21 52	0 8	6 42	0 40	15 44	1 47	6 51	12 54	19 12	19 19	26 36	11 47	1 22
S 7	15 16	23 54	1 33	16 47	1 59	22 0	1 5	2 18	0 34	0 30	1 30	21 52	0 8	6 42	0 40	15 44	1 47	6 52	12 54	19 12	19 20	26 36	11 48	1 22
S 8	14 57	20 0	0 14	16 9	1 56	21 58	1 2	1 59	0 33	0 29	1 31	21 51	0 7	6 42	0 40	15 44	1 47	6 52	12 54	19 12	19 20	26 36	11 48	1 22
M 9	14 38	14 57	1s 5	15 31	1 53	21 55	0 58	1 41	0 33	0 27	1 31	21 50	0 7	6 41	0 40	15 44	1 47	6 52	12 53	19 12	19 21	26 36	11 49	1 22
T 10	14 19	9 9	2 19	14 50	1 50	21 51	0 55	1 22	0 32	0 25	1 31	21 49	0 7	6 41	0 40	15 44	1 47	6 53	12 53	19 12	19 22	26 36	11 50	1 22
W11	13 59	3 3	3 23	14 9	1 45	21 46	0 51	1 3	0 31	0 23	1 31	21 48	0 7	6 41	0 40	15 44	1 47	6 53	12 53	19 13	19 23	26 36	11 50	1 22
T 12	13 39	3s 2	4 14	13 25	1 41	21 41	0 48	0 44	0 30	0 21	1 32	21 47	0 7	6 40	0 40	15 44	1 47	6 53	12 52	19 13	19 23	26 36	11 51	1 22
F 13	13 19	8 49	4 50	12 41	1 35	21 36	0 45	0 25	0 30	0 19	1 32	21 46	0 7	6 40	0 40	15 44	1 47	6 54	12 52	19 14	19 24	26 36	11 51	1 22
S 14	12 59	14 3	5 10	11 55	1 29	21 29	0 41	0 6	0 29	0 17	1 32	21 45	0 7	6 39	0 40	15 44	1 47	6 54	12 52	19 15	19 25	26 36	11 52	1 22
S 15	12 38	18 35	5 15	11 8	1 23	21 22	0 38	0n12	0 28	0 15	1 32	21 44	0 7	6 39	0 40	15 44	1 47	6 54	12 52	19 15	19 26	26 36	11 53	1 22
M16	12 18	22 15	5 5	10 20	1 15	21 15	0 34	0 31	0 27	0 13	1 32	21 44	0 7	6 38	0 40	15 44	1 47	6 55	12 51	19 16	19 26	26 36	11 53	1 22
T 17	11 57	24 53	4 42	9 31	1 7	21 7	0 31	0 50	0 26	0 11	1 33	21 43	0 7	6 38	0 40	15 44	1 47	6 55	12 51	19 16	19 27	26 36	11 54	1 22
W18	11 36	26 25	4 8	8 41	0 59	20 58	0 28	1 9	0 26	0 9	1 33	21 42	0 7	6 37	0 40	15 44	1 48	6 55	12 51	19 15	19 28	26 36	11 55	1 22
T 19	11 14	26 44	3 23	7 50	0 49	20 48	0 24	1 27	0 25	0 6	1 33	21 41	0 7	6 37	0 40	15 44	1 48	6 56	12 50	19 15	19 29	26 36	11 55	1 22
F 20	10 53	25 50	2 29	6 58	0 40	20 38	0 21	1 46	0 24	0 4	1 33	21 40	0 7	6 36	0 40	15 44	1 48	6 56	12 50	19 15	19 29	26 36	11 56	1 22
S 21	10 31	23 44	1 28	6 6	0 29	20 28	0 18	2 4	0 23	0 2	1 33	21 39	0 7	6 35	0 40	15 44	1 48	6 56	12 50	19 14	19 30	26 36	11 57	1 22
S 22	10 9	20 31	0 22	5 14	0 18	20 17	0 14	2 23	0 23	0n 1	1 34	21 38	0 7	6 35	0 40	15 44	1 48	6 57	12 49	19 14	19 31	26 36	11 58	1 22
M23	9 47	16 20	0n46	4 23	0 6	20 5	0 11	2 42	0 22	0 3	1 34	21 37	0 6	6 34	0 40	15 44	1 48	6 57	12 49	19 14	19 31	26 36	11 58	1 22
T 24	9 25	11 21	1 53	3 31	0n 6	19 52	0 8	3 0	0 21	0 6	1 34	21 37	0 6	6 33	0 40	15 43	1 48	6 57	12 49	19 15	19 32	26 36	11 59	1 22
W25	9 3	5 48	2 55	2 40	0 19	19 39	0 4	3 18	0 20	0 9	1 34	21 36	0 6	6 33	0 40	15 43	1 48	6 58	12 49	19 15	19 33	26 36	12 0	1 22
T 26	8 41	0n 7	3 49	1 50	0 32	19 26	0 1	3 37	0 20	0 11	1 34	21 35	0 6	6 32	0 40	15 43	1 48	6 58	12 48	19 16	19 34	26 36	12 1	1 22
F 27	8 18	6 8	4 32	1 1	0 45	19 12	0s 2	3 55	0 19	0 14	1 35	21 34	0 6	6 31	0 40	15 43	1 48	6 58	12 48	19 18	19 34	26 36	12 2	1 22
S 28	7s55	11n56	5n 0	0s14	0n59	18s57	0s 5	4n13	0s18	0n17	1n35	21s33	0n 6	6s31	0n40	15s43	1n48	6n59	12s48	19s19	19s35	26s36	12n 3	1s22

Julian Day Number = 2318993.5, Delta T = 52.51 sec
Ecliptic obliquity = 23°29'17, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'30, Lahiri = 18°47'30Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

MARCH 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 36 7	10♓45'48	2♉31	28♓30	6♒59	12♈ 7	2°R49	22♑17	18°R 7	18°R47	26♉39	3°R48	2♒42	19♐45	5♉24	S 1
M 2	10 40 4	11°45'50	16°31	29°45	8°12	12°51	2♎43	22°23	18♎ 5	18♏47	26°39	3♒44	2°38	19°52	5°27	M 2
T 3	10 44 1	12°45'50	0♊36	0♈55	9°25	13°36	2°36	22°28	18° 3	18°46	26°40	3°42	2°35	19°59	5°30	T 3
W 4	10 47 57	13°45'48	14°44	1°57	10°38	14°21	2°29	22°33	18° 1	18°46	26°40	3°D41	2°32	20° 5	5°33	W 4
T 5	10 51 54	14°45'44	28°54	2°52	11°51	15° 5	2°22	22°39	17°59	18°46	26°41	3°42	2°29	20°12	5°35	T 5
F 6	10 55 50	15°45'37	13♋ 3	3°39	13° 4	15°50	2°15	22°44	17°57	18°45	26°41	3°43	2°26	20°19	5°38	F 6
S 7	10 59 47	16°45'28	27°11	4°18	14°17	16°35	2° 7	22°49	17°55	18°45	26°42	3°R44	2°23	20°25	5°41	S 7
S 8	11 3 43	17°45'17	11♌14	4°49	15°30	17°19	2° 0	22°54	17°53	18°44	26°42	3°44	2°19	20°32	5°44	S 8
M 9	11 7 40	18°45'04	25°11	5°12	16°43	18° 3	1°53	22°59	17°51	18°43	26°43	3°42	2°16	20°39	5°47	M 9
T 10	11 11 36	19°44'48	8♍58	5°26	17°56	18°48	1°46	23° 4	17°49	18°43	26°44	3°38	2°13	20°45	5°51	T 10
W11	11 15 33	20°44'30	22°33	5°R31	19° 9	19°32	1°38	23° 9	17°47	18°42	26°44	3°32	2°10	20°52	5°54	W11
T 12	11 19 30	21°44'11	5♎52	5°28	20°23	20°17	1°31	23°13	17°44	18°41	26°45	3°24	2° 7	20°59	5°57	T 12
F 13	11 23 26	22°43'49	18°54	5°17	21°36	21° 1	1°23	23°18	17°42	18°41	26°46	3°15	2° 4	21° 5	6° 0	F 13
S 14	11 27 23	23°43'26	1♏38	4°58	22°49	21°45	1°15	23°23	17°40	18°40	26°46	3° 6	2° 0	21°12	6° 3	S 14
S 15	11 31 19	24°43'00	14° 5	4°32	24° 2	22°29	1° 8	23°27	17°38	18°39	26°47	2°58	1°57	21°19	6° 6	S 15
M16	11 35 16	25°42'33	26°17	3°59	25°15	23°13	1° 0	23°32	17°35	18°38	26°48	2°52	1°54	21°25	6°10	M16
T 17	11 39 12	26°42'04	8♐17	3°21	26°29	23°57	0°52	23°36	17°33	18°38	26°48	2°47	1°51	21°32	6°13	T 17
W18	11 43 9	27°41'34	20° 9	2°38	27°42	24°41	0°45	23°41	17°31	18°37	26°49	2°45	1°48	21°39	6°17	W18
T 19	11 47 5	28°41'01	1♑59	1°51	28°55	25°25	0°37	23°45	17°28	18°36	26°50	2°D45	1°44	21°45	6°20	T 19
F 20	11 51 2	29°40'27	13°51	1° 1	0♓ 8	26° 9	0°29	23°49	17°26	18°35	26°51	2°46	1°41	21°52	6°23	F 20
S 21	11 54 59	0♈39'51	25°51	0°10	1°22	26°53	0°21	23°53	17°23	18°34	26°52	2°47	1°38	21°59	6°27	S 21
S 22	11 58 55	1°39'13	8♒ 4	29♓17	2°35	27°37	0°14	23°57	17°21	18°33	26°52	2°R47	1°35	22° 5	6°30	S 22
M23	12 2 52	2°38'34	20°35	28°26	3°48	28°21	0° 6	24° 1	17°19	18°32	26°53	2°45	1°32	22°12	6°34	M23
T 24	12 6 48	3°37'52	3♓26	27°36	5° 1	29° 5	29♍58	24° 5	17°16	18°31	26°54	2°41	1°29	22°19	6°37	T 24
W25	12 10 45	4°37'08	16°39	26°48	6°15	29°48	29°50	24° 9	17°14	18°30	26°55	2°35	1°25	22°25	6°41	W25
T 26	12 14 41	5°36'23	0♈14	26° 3	7°28	0♉32	29°43	24°13	17°11	18°29	26°56	2°26	1°22	22°32	6°45	T 26
F 27	12 18 38	6°35'35	14° 9	25°22	8°41	1°16	29°35	24°16	17° 9	18°28	26°57	2°16	1°19	22°39	6°48	F 27
S 28	12 22 34	7°34'45	28°19	24°45	9°55	1°59	29°27	24°20	17° 6	18°27	26°58	2° 5	1°16	22°45	6°52	S 28
S 29	12 26 31	8°33'53	12♉39	24°14	11° 8	2°43	29°20	24°23	17° 4	18°26	26°59	1°55	1°13	22°52	6°56	S 29
M30	12 30 28	9°33'00	27° 3	23°47	12°21	3°26	29°12	24°27	17° 1	18°24	27° 0	1°47	1°10	22°59	6°59	M30
T 31	12 34 24	10♈32'03	11♊26	23♓26	13♓35	4♉10	29♍ 5	24♑30	16♎59	18♏23	27♉ 1	1♒42	1♒ 6	23♐ 6	7♉ 3	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
S 1	7s33	17n14	5n11	0n31	1n13	18s42	0s 8	4n32	0s17	0n20	1n35	21s32	0n 6	6s30	0n40	15s43	1n48	6n59	12s47	19s20	19s36	26s35	12n 4	1s22
M 2	7 10	21 39	5 3	1 14	1 27	18 26	0 11	4 50	0 17	0 22	1 35	21 32	0 6	6 29	0 40	15 43	1 48	7 0	12 47	19 21	19 37	26 35	12 4	1 22
T 3	6 47	24 50	4 37	1 54	1 41	18 10	0 14	5 8	0 16	0 25	1 35	21 31	0 6	6 29	0 40	15 42	1 48	7 0	12 47	19 22	19 37	26 35	12 5	1 22
W 4	6 24	26 30	3 55	2 32	1 54	17 53	0 17	5 26	0 15	0 28	1 35	21 30	0 6	6 28	0 40	15 42	1 48	7 0	12 46	19 22	19 38	26 35	12 6	1 22
T 5	6 1	26 27	2 58	3 6	2 8	17 36	0 20	5 44	0 15	0 31	1 35	21 29	0 6	6 27	0 40	15 42	1 48	7 1	12 46	19 22	19 39	26 35	12 7	1 22
F 6	5 38	24 40	1 50	3 36	2 21	17 18	0 23	6 2	0 14	0 34	1 35	21 28	0 6	6 26	0 40	15 42	1 48	7 1	12 46	19 22	19 39	26 35	12 8	1 22
S 7	5 14	21 21	0 36	4 3	2 33	17 0	0 26	6 20	0 13	0 37	1 36	21 28	0 6	6 25	0 40	15 42	1 48	7 2	12 46	19 21	19 40	26 35	12 9	1 22
S 8	4 51	16 48	0s41	4 26	2 45	16 41	0 29	6 37	0 12	0 40	1 36	21 27	0 6	6 25	0 40	15 42	1 49	7 2	12 45	19 21	19 41	26 34	12 10	1 22
M 9	4 28	11 22	1 53	4 45	2 55	16 22	0 32	6 55	0 12	0 43	1 36	21 26	0 6	6 24	0 40	15 41	1 49	7 2	12 45	19 22	19 42	26 34	12 11	1 22
T 10	4 4	5 28	2 59	4 59	3 5	16 2	0 35	7 13	0 11	0 46	1 36	21 25	0 5	6 23	0 40	15 41	1 49	7 3	12 45	19 23	19 42	26 34	12 12	1 22
W11	3 41	0s36	3 53	5 9	3 13	15 42	0 37	7 30	0 10	0 49	1 36	21 25	0 5	6 22	0 40	15 41	1 49	7 3	12 45	19 24	19 43	26 34	12 13	1 22
T 12	3 17	6 30	4 33	5 14	3 20	15 21	0 40	7 48	0 9	0 52	1 36	21 24	0 5	6 21	0 40	15 41	1 49	7 4	12 44	19 26	19 44	26 34	12 14	1 22
F 13	2 53	12 0	4 57	5 15	3 26	15 0	0 43	8 5	0 9	0 55	1 36	21 23	0 5	6 20	0 40	15 40	1 49	7 4	12 44	19 28	19 44	26 34	12 15	1 22
S 14	2 30	16 51	5 7	5 11	3 30	14 39	0 45	8 22	0 8	0 58	1 36	21 22	0 5	6 20	0 40	15 40	1 49	7 4	12 44	19 30	19 45	26 33	12 16	1 22
S 15	2 6	20 53	5 1	5 3	3 32	14 17	0 48	8 39	0 7	1 1	1 36	21 22	0 5	6 19	0 40	15 40	1 49	7 5	12 43	19 32	19 46	26 33	12 17	1 23
M16	1 43	23 55	4 42	4 51	3 33	13 55	0 50	8 56	0 7	1 4	1 36	21 21	0 5	6 18	0 40	15 40	1 49	7 5	12 43	19 34	19 47	26 33	12 18	1 23
T 17	1 19	25 51	4 10	4 34	3 32	13 32	0 53	9 13	0 6	1 8	1 36	21 20	0 5	6 17	0 40	15 39	1 49	7 6	12 43	19 35	19 47	26 33	12 19	1 23
W18	0 55	26 35	3 28	4 14	3 28	13 9	0 55	9 30	0 5	1 11	1 36	21 20	0 5	6 16	0 40	15 39	1 49	7 6	12 43	19 35	19 48	26 32	12 20	1 23
T 19	0 31	26 6	2 38	3 51	3 23	12 46	0 57	9 47	0 4	1 14	1 36	21 19	0 5	6 15	0 40	15 39	1 49	7 6	12 42	19 35	19 49	26 32	12 21	1 23
F 20	0 8	24 25	1 40	3 25	3 17	12 22	0 59	10 4	0 4	1 17	1 37	21 18	0 5	6 14	0 40	15 39	1 49	7 7	12 42	19 35	19 49	26 32	12 23	1 23
S 21	0n16	21 38	0 37	2 56	3 8	11 58	1 1	10 20	0 3	1 20	1 37	21 18	0 5	6 13	0 40	15 38	1 49	7 7	12 42	19 35	19 50	26 32	12 24	1 23
S 22	0 40	17 50	0n28	2 26	2 58	11 34	1 4	10 37	0 2	1 23	1 37	21 17	0 5	6 12	0 40	15 38	1 49	7 8	12 42	19 35	19 51	26 31	12 25	1 23
M23	1 3	13 11	1 34	1 55	2 47	11 9	1 6	10 53	0 2	1 26	1 37	21 16	0 5	6 11	0 40	15 38	1 49	7 8	12 41	19 35	19 52	26 31	12 26	1 23
T 24	1 27	7 51	2 36	1 24	2 34	10 44	1 8	11 9	0 1	1 29	1 37	21 16	0 5	6 10	0 40	15 37	1 49	7 9	12 41	19 36	19 52	26 31	12 27	1 23
W25	1 50	2 2	3 32	0 52	2 20	10 19	1 9	11 25	0 0	1 32	1 37	21 15	0 4	6 9	0 40	15 37	1 49	7 9	12 41	19 37	19 53	26 31	12 28	1 23
T 26	2 14	4n 1	4 17	0 21	2 6	9 53	1 11	11 41	0n 0	1 35	1 37	21 15	0 4	6 9	0 40	15 37	1 49	7 9	12 41	19 39	19 54	26 30	12 29	1 23
F 27	2 37	10 1	4 48	0s 9	1 50	9 27	1 13	11 57	0 1	1 38	1 37	21 14	0 4	6 8	0 40	15 36	1 49	7 10	12 40	19 42	19 54	26 30	12 31	1 23
S 28	3 1	15 36	5 2	0 38	1 35	9 1	1 15	12 13	0 2	1 41	1 36	21 13	0 4	6 7	0 40	15 36	1 49	7 10	12 40	19 44	19 55	26 30	12 32	1 23
S 29	3 24	20 23	4 58	1 5	1 19	8 35	1 16	12 29	0 2	1 44	1 36	21 13	0 4	6 6	0 40	15 36	1 50	7 11	12 40	19 46	19 56	26 29	12 33	1 23
M30	3 47	23 59	4 34	1 31	1 3	8 8	1 18	12 44	0 3	1 47	1 36	21 12	0 4	6 5	0 40	15 35	1 50	7 11	12 40	19 48	19 56	26 29	12 34	1 23
T 31	4n11	26n 3	3n54	1s54	0n47	7s42	1s19	12n59	0n 4	1n50	1n36	21s12	0n 4	6s 4	0n40	15s35	1n50	7n12	12s39	19s49	19s57	26s29	12n35	1s23

Julian Day Number = 2319021.5, Delta T = 52.46 sec
Ecliptic obliquity = 23°29'17, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'34, Lahiri = 18°47'34Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

APRIL 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 38 21	11♈31'05	25♊44	23°R10	14♓48	4♉53	28°R57	24♑33	16°R56	18°R22	27♉ 2	1°R39	1♒ 3	23♐12	7♉ 7	W 1
T 2	12 42 17	12°30'04	9♋53	23♓ 0	16° 1	5°36	28♍50	24°36	16♎53	18♏21	27° 3	1°D38	1° 0	23°19	7°11	T 2
F 3	12 46 14	13°29'01	23°54	22°D55	17°15	6°20	28°43	24°39	16°51	18°20	27° 4	1°R38	0°57	23°26	7°15	F 3
S 4	12 50 10	14°27'55	7♌44	22°56	18°28	7° 3	28°35	24°42	16°48	18°18	27° 5	1♒38	0°54	23°32	7°19	S 4
S 5	12 54 7	15°26'47	21°26	23° 2	19°41	7°46	28°28	24°45	16°46	18°17	27° 6	1°36	0°50	23°39	7°22	S 5
M 6	12 58 3	16°25'37	4♍58	23°13	20°55	8°29	28°21	24°48	16°43	18°16	27° 7	1°33	0°47	23°46	7°26	M 6
T 7	13 2 0	17°24'24	18°20	23°29	22° 8	9°12	28°14	24°51	16°41	18°14	27° 8	1°26	0°44	23°52	7°30	T 7
W 8	13 5 57	18°23'09	1♎31	23°49	23°21	9°55	28° 7	24°53	16°38	18°13	27° 9	1°17	0°41	23°59	7°34	W 8
T 9	13 9 53	19°21'52	14°31	24°15	24°35	10°38	28° 0	24°56	16°35	18°12	27°10	1° 5	0°38	24° 6	7°38	T 9
F 10	13 13 50	20°20'33	27°17	24°45	25°48	11°21	27°54	24°58	16°33	18°10	27°11	0°52	0°35	24°12	7°42	F 10
S 11	13 17 46	21°19'13	9♏50	25°18	27° 1	12° 4	27°47	25° 0	16°30	18° 9	27°12	0°39	0°31	24°19	7°46	S 11
S 12	13 21 43	22°17'50	22° 9	25°56	28°15	12°47	27°40	25° 3	16°28	18° 8	27°13	0°27	0°28	24°26	7°50	S 12
M13	13 25 39	23°16'26	4♐17	26°38	29°28	13°30	27°34	25° 5	16°25	18° 6	27°14	0°17	0°25	24°32	7°54	M13
T 14	13 29 36	24°15'00	16°14	27°23	0♈41	14°12	27°28	25° 7	16°23	18° 5	27°16	0° 9	0°22	24°39	7°58	T 14
W15	13 33 32	25°13'32	28° 5	28°12	1°55	14°55	27°22	25° 9	16°20	18° 3	27°17	0° 4	0°19	24°46	8° 2	W15
T 16	13 37 29	26°12'02	9♑54	29° 4	3° 8	15°38	27°16	25°11	16°18	18° 2	27°18	0° 2	0°15	24°52	8° 6	T 16
F 17	13 41 26	27°10'31	21°45	29°59	4°22	16°20	27°10	25°12	16°15	18° 0	27°19	0° 1	0°12	24°59	8°10	F 17
S 18	13 45 22	28° 8'58	3♒44	0♈58	5°35	17° 3	27° 4	25°14	16°13	17°59	27°20	0° 1	0° 9	25° 6	8°14	S 18
S 19	13 49 19	29° 7'24	15°57	1°59	6°48	17°46	26°58	25°16	16°10	17°57	27°22	0° 1	0° 6	25°12	8°18	S 19
M20	13 53 15	0♉ 5'48	28°28	3° 3	8° 2	18°28	26°53	25°17	16° 8	17°56	27°23	29♑59	0° 3	25°19	8°22	M20
T 21	13 57 12	1° 4'10	11♓23	4°10	9°15	19°10	26°47	25°19	16° 5	17°54	27°24	29°55	29♑59	25°26	8°26	T 21
W22	14 1 8	2° 2'30	24°43	5°19	10°28	19°53	26°42	25°20	16° 3	17°53	27°25	29°48	29°56	25°32	8°30	W22
T 23	14 5 5	3° 0'49	8♈30	6°30	11°42	20°35	26°37	25°21	16° 0	17°51	27°27	29°38	29°53	25°39	8°35	T 23
F 24	14 9 1	3°59'07	22°42	7°45	12°55	21°17	26°32	25°22	15°58	17°50	27°28	29°27	29°50	25°46	8°39	F 24
S 25	14 12 58	4°57'22	7♉14	9° 1	14° 9	22° 0	26°27	25°23	15°55	17°48	27°29	29°15	29°47	25°52	8°43	S 25
S 26	14 16 54	5°55'36	21°59	10°20	15°22	22°42	26°22	25°24	15°53	17°46	27°30	29° 4	29°44	25°59	8°47	S 26
M27	14 20 51	6°53'48	6♊48	11°40	16°35	23°24	26°18	25°25	15°51	17°45	27°32	28°55	29°41	26° 6	8°51	M27
T 28	14 24 48	7°51'58	21°34	13° 3	17°49	24° 6	26°14	25°25	15°48	17°43	27°33	28°49	29°37	26°12	8°55	T 28
W29	14 28 44	8°50'07	6♋10	14°29	19° 2	24°48	26° 9	25°26	15°46	17°42	27°34	28°45	29°34	26°19	8°59	W29
T 30	14 32 41	9♉48'13	20♋31	15♈56	20♈16	25♉30	26♍ 5	25♑27	15♎44	17♏40	27♉35	28♑44	29♑31	26♐26	9♉ 3	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		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	4n34	26n23	2n58	2s14	0n31	7s14	1s21	13n15	0n 4	1n53	1n36	21s11	0n 4	6s 3	0n40	15s34	1n50	7n12	12s39	19s50	19s58	26s28	12n36	1s23	W 1
T 2	4 57	25 0	1 53	2 33	0 16	6 47	1 22	13 30	0 5	1 56	1 36	21 11	0 4	6 2	0 40	15 34	1 50	7 12	12 39	19 50	19 59	26 28	12 38	1 23	T 2
F 3	5 20	22 3	0 41	2 48	0 1	6 20	1 24	13 45	0 6	1 59	1 36	21 10	0 4	6 1	0 40	15 34	1 50	7 13	12 39	19 50	19 59	26 28	12 39	1 23	F 3
S 4	5 43	17 51	0s32	3 2	0s14	5 52	1 25	14 0	0 6	2 2	1 36	21 10	0 4	6 0	0 40	15 33	1 50	7 13	12 39	19 50	20 0	26 27	12 40	1 23	S 4
S 5	6 6	12 46	1 43	3 12	0 28	5 24	1 26	14 14	0 7	2 5	1 36	21 10	0 4	5 59	0 40	15 33	1 50	7 14	12 38	19 51	20 1	26 27	12 41	1 23	S 5
M 6	6 28	7 7	2 47	3 20	0 41	4 57	1 27	14 29	0 8	2 7	1 36	21 9	0 4	5 58	0 40	15 33	1 50	7 14	12 38	19 51	20 1	26 26	12 42	1 23	M 6
T 7	6 51	1 14	3 40	3 26	0 54	4 28	1 28	14 43	0 8	2 10	1 36	21 9	0 4	5 57	0 40	15 32	1 50	7 15	12 38	19 53	20 2	26 26	12 44	1 23	T 7
W 8	7 13	4s36	4 21	3 29	1 7	4 0	1 29	14 58	0 9	2 13	1 36	21 8	0 3	5 56	0 40	15 32	1 50	7 15	12 38	19 55	20 3	26 26	12 45	1 24	W 8
T 9	7 36	10 9	4 48	3 29	1 18	3 32	1 30	15 12	0 10	2 15	1 36	21 8	0 3	5 55	0 40	15 31	1 50	7 15	12 38	19 57	20 3	26 25	12 46	1 24	T 9
F 10	7 58	15 11	5 0	3 27	1 29	3 3	1 31	15 26	0 10	2 18	1 36	21 8	0 3	5 54	0 40	15 31	1 50	7 16	12 37	20 0	20 4	26 25	12 47	1 24	F 10
S 11	8 20	19 28	4 57	3 23	1 39	2 35	1 31	15 40	0 11	2 21	1 35	21 7	0 3	5 53	0 40	15 31	1 50	7 16	12 37	20 3	20 5	26 24	12 48	1 24	S 11
S 12	8 42	22 50	4 40	3 17	1 49	2 6	1 32	15 53	0 12	2 23	1 35	21 7	0 3	5 52	0 40	15 30	1 50	7 17	12 37	20 6	20 5	26 24	12 50	1 24	S 12
M13	9 4	25 8	4 10	3 8	1 58	1 38	1 33	16 7	0 12	2 25	1 35	21 7	0 3	5 51	0 40	15 30	1 50	7 17	12 37	20 8	20 6	26 24	12 51	1 24	M13
T 14	9 25	26 15	3 30	2 58	2 6	1 9	1 33	16 20	0 13	2 28	1 35	21 6	0 3	5 50	0 40	15 29	1 50	7 17	12 37	20 10	20 7	26 23	12 52	1 24	T 14
W15	9 47	26 9	2 40	2 45	2 13	0 40	1 33	16 34	0 13	2 30	1 35	21 6	0 3	5 49	0 40	15 29	1 50	7 18	12 36	20 11	20 8	26 23	12 53	1 24	W15
T 16	10 8	24 51	1 44	2 31	2 20	0 11	1 34	16 47	0 14	2 32	1 35	21 6	0 3	5 48	0 40	15 28	1 50	7 18	12 36	20 11	20 8	26 22	12 55	1 24	T 16
F 17	10 29	22 27	0 44	2 14	2 26	0n18	1 34	17 0	0 15	2 35	1 35	21 5	0 3	5 47	0 40	15 28	1 50	7 19	12 36	20 11	20 9	26 22	12 56	1 24	F 17
S 18	10 50	19 2	0n20	1 56	2 32	0 47	1 34	17 12	0 15	2 37	1 34	21 5	0 3	5 46	0 40	15 28	1 50	7 19	12 36	20 11	20 10	26 21	12 57	1 24	S 18
S 19	11 11	14 46	1 23	1 36	2 37	1 16	1 35	17 25	0 16	2 39	1 34	21 5	0 3	5 45	0 40	15 27	1 50	7 20	12 36	20 11	20 10	26 21	12 58	1 24	S 19
M20	11 32	9 46	2 24	1 14	2 41	1 45	1 35	17 37	0 16	2 41	1 34	21 5	0 3	5 44	0 40	15 27	1 50	7 20	12 36	20 12	20 11	26 20	13 0	1 24	M20
T 21	11 52	4 14	3 20	0 51	2 44	2 13	1 35	17 50	0 17	2 43	1 34	21 5	0 2	5 43	0 40	15 26	1 50	7 20	12 36	20 13	20 12	26 20	13 1	1 24	T 21
W22	12 12	1n40	4 7	0 26	2 47	2 42	1 35	18 2	0 18	2 45	1 34	21 5	0 2	5 42	0 40	15 26	1 50	7 21	12 35	20 14	20 12	26 19	13 2	1 24	W22
T 23	12 32	7 40	4 41	0 0	2 49	3 11	1 34	18 14	0 18	2 47	1 34	21 4	0 2	5 41	0 40	15 25	1 50	7 21	12 35	20 16	20 13	26 19	13 3	1 25	T 23
F 24	12 52	13 27	4 58	0n28	2 51	3 40	1 34	18 25	0 19	2 49	1 33	21 4	0 2	5 41	0 40	15 25	1 50	7 22	12 35	20 18	20 14	26 18	13 5	1 25	F 24
S 25	13 12	18 38	4 58	0 57	2 52	4 9	1 34	18 37	0 19	2 50	1 33	21 4	0 2	5 40	0 40	15 24	1 50	7 22	12 35	20 21	20 14	26 18	13 6	1 25	S 25
S 26	13 31	22 45	4 37	1 27	2 53	4 37	1 34	18 48	0 20	2 52	1 33	21 4	0 2	5 39	0 40	15 24	1 50	7 22	12 35	20 23	20 15	26 17	13 7	1 25	S 26
M27	13 51	25 24	3 58	1 59	2 52	5 6	1 33	19 0	0 21	2 54	1 33	21 4	0 2	5 38	0 40	15 24	1 50	7 23	12 35	20 25	20 16	26 17	13 8	1 25	M27
T 28	14 10	26 16	3 3	2 32	2 52	5 34	1 33	19 11	0 21	2 55	1 33	21 4	0 2	5 37	0 40	15 23	1 50	7 23	12 35	20 26	20 16	26 16	13 10	1 25	T 28
W29	14 28	25 17	1 56	3 6	2 50	6 3	1 32	19 22	0 22	2 57	1 33	21 4	0 2	5 36	0 40	15 23	1 50	7 24	12 34	20 27	20 17	26 16	13 11	1 25	W29
T 30	14n47	22n38	0n43	3n41	2s48	6n31	1s32	19n32	0n22	2n58	1n32	21s 4	0n 2	5s35	0n40	15s22	1n50	7n24	12s34	20s27	20s18	26s15	13n12	1s25	T 30

Julian Day Number = 2319052.5, Delta T = 52.39 sec
Ecliptic obliquity = 23°29'16, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'38, Lahiri = 18°47'38Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

MAY 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 36 37	10♉46'17	4♌36	17♈25	21♈29	26♉12	26°R 1	25♑27	15°R42	17°R38	27♉37	28°R44	29♑28	26♐32	9♉ 8	F 1
S 2	14 40 34	11°44'19	18°23	18°56	22°42	26°54	25♍58	25°27	15♎39	17♏37	27°38	28♑44	29°25	26°39	9°12	S 2
S 3	14 44 30	12°42'20	1♍54	20°30	23°56	27°36	25°54	25°28	15°37	17°35	27°39	28°42	29°21	26°46	9°16	S 3
M 4	14 48 27	13°40'18	15°11	22° 5	25° 9	28°18	25°51	25°28	15°35	17°34	27°41	28°39	29°18	26°52	9°20	M 4
T 5	14 52 23	14°38'14	28°14	23°43	26°22	28°59	25°48	25°R28	15°33	17°32	27°42	28°33	29°15	26°59	9°24	T 5
W 6	14 56 20	15°36'09	11♎ 5	25°22	27°36	29°41	25°45	25°28	15°31	17°30	27°43	28°24	29°12	27° 6	9°28	W 6
T 7	15 0 17	16°34'02	23°45	27° 4	28°49	0♊23	25°42	25°27	15°29	17°29	27°45	28°13	29° 9	27°12	9°32	T 7
F 8	15 4 13	17°31'53	6♏13	28°47	0♉ 3	1° 4	25°39	25°27	15°26	17°27	27°46	28° 1	29° 6	27°19	9°36	F 8
S 9	15 8 10	18°29'43	18°32	0♉32	1°16	1°46	25°37	25°27	15°24	17°25	27°47	27°49	29° 2	27°26	9°40	S 9
S 10	15 12 6	19°27'31	0♐41	2°20	2°29	2°28	25°35	25°26	15°22	17°24	27°49	27°37	28°59	27°32	9°44	S 10
M11	15 16 3	20°25'18	12°41	4° 9	3°43	3° 9	25°32	25°26	15°20	17°22	27°50	27°28	28°56	27°39	9°49	M11
T 12	15 19 59	21°23'04	24°34	6° 1	4°56	3°51	25°30	25°25	15°19	17°21	27°51	27°21	28°53	27°46	9°53	T 12
W13	15 23 56	22°20'48	6♑23	7°55	6° 9	4°32	25°29	25°24	15°17	17°19	27°53	27°16	28°50	27°52	9°57	W13
T 14	15 27 52	23°18'32	18°10	9°50	7°23	5°13	25°27	25°23	15°15	17°17	27°54	27°14	28°47	27°59	10° 1	T 14
F 15	15 31 49	24°16'14	0♒ 1	11°48	8°36	5°55	25°26	25°23	15°13	17°16	27°56	27°D13	28°43	28° 6	10° 5	F 15
S 16	15 35 46	25°13'54	12° 0	13°47	9°50	6°36	25°24	25°21	15°11	17°14	27°57	27°14	28°40	28°12	10° 9	S 16
S 17	15 39 42	26°11'34	24°11	15°48	11° 3	7°17	25°23	25°20	15° 9	17°13	27°58	27°R15	28°37	28°19	10°13	S 17
M18	15 43 39	27° 9'13	6♓41	17°51	12°16	7°58	25°23	25°19	15° 8	17°11	28° 0	27°14	28°34	28°26	10°17	M18
T 19	15 47 35	28° 6'51	19°33	19°56	13°30	8°40	25°22	25°18	15° 6	17° 9	28° 1	27°12	28°31	28°32	10°21	T 19
W20	15 51 32	29° 4'27	2♈53	22° 2	14°43	9°21	25°21	25°16	15° 5	17° 8	28° 2	27° 8	28°27	28°39	10°25	W20
T 21	15 55 28	0♊ 2'03	16°41	24°10	15°57	10° 2	25°21	25°15	15° 3	17° 6	28° 4	27° 1	28°24	28°46	10°29	T 21
F 22	15 59 25	0°59'38	0♉57	26°19	17°10	10°43	25°D21	25°13	15° 1	17° 5	28° 5	26°54	28°21	28°52	10°33	F 22
S 23	16 3 21	1°57'12	15°37	28°29	18°23	11°24	25°21	25°12	15° 0	17° 3	28° 6	26°45	28°18	28°59	10°37	S 23
S 24	16 7 18	2°54'45	0♊36	0♊40	19°37	12° 5	25°21	25°10	14°58	17° 1	28° 8	26°37	28°15	29° 6	10°40	S 24
M25	16 11 15	3°52'17	15°42	2°52	20°50	12°46	25°22	25° 8	14°57	17° 0	28° 9	26°30	28°12	29°12	10°44	M25
T 26	16 15 11	4°49'48	0♋48	5° 4	22° 4	13°27	25°22	25° 6	14°56	16°58	28°10	26°26	28° 8	29°19	10°48	T 26
W27	16 19 8	5°47'17	15°43	7°16	23°17	14° 7	25°23	25° 4	14°54	16°57	28°12	26°24	28° 5	29°26	10°52	W27
T 28	16 23 4	6°44'46	0♌21	9°27	24°31	14°48	25°24	25° 2	14°53	16°55	28°13	26°D23	28° 2	29°32	10°56	T 28
F 29	16 27 1	7°42'13	14°38	11°39	25°44	15°29	25°25	25° 0	14°52	16°54	28°15	26°24	27°59	29°39	11° 0	F 29
S 30	16 30 57	8°39'38	28°32	13°50	26°58	16°10	25°26	24°57	14°51	16°52	28°16	26°25	27°56	29°46	11° 4	S 30
S 31	16 34 54	9♊37'03	12♍ 4	15♊59	28♉11	16♊50	25♍28	24♑55	14♎49	16♏51	28♉17	26°R25	27♑53	29♐52	11♉ 7	S 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
F 1	15n 5	18n39	0s31	4n18	2s46	6n59	1s31	19n43	0n23	3n 0	1n32	21s 4	0n 2	5s34	0n40	15s22	1n50	7n24	12s34	20s27	20s18	26s15	13n13	1s25
S 2	15 23	13 44	1 42	4 55	2 43	7 27	1 30	19 53	0 24	3 1	1 32	21 4	0 2	5 34	0 40	15 21	1 50	7 25	12 34	20 27	20 19	26 14	13 14	1 25
S 3	15 41	8 14	2 46	5 34	2 39	7 55	1 29	20 3	0 24	3 2	1 32	21 4	0 2	5 33	0 40	15 21	1 50	7 25	12 34	20 28	20 20	26 13	13 16	1 25
M 4	15 58	2 28	3 40	6 13	2 35	8 23	1 29	20 13	0 25	3 3	1 31	21 4	0 1	5 32	0 40	15 20	1 50	7 25	12 34	20 28	20 20	26 13	13 17	1 25
T 5	16 16	3s17	4 21	6 53	2 30	8 50	1 28	20 23	0 25	3 4	1 31	21 4	0 1	5 31	0 40	15 20	1 50	7 26	12 34	20 30	20 21	26 12	13 18	1 26
W 6	16 33	8 48	4 48	7 35	2 25	9 18	1 27	20 33	0 26	3 5	1 31	21 4	0 1	5 30	0 40	15 19	1 50	7 26	12 34	20 31	20 22	26 12	13 19	1 26
T 7	16 49	13 53	5 1	8 17	2 20	9 45	1 26	20 42	0 26	3 6	1 31	21 4	0 1	5 30	0 40	15 19	1 50	7 27	12 34	20 34	20 22	26 11	13 21	1 26
F 8	17 6	18 19	4 59	8 59	2 13	10 11	1 24	20 51	0 27	3 7	1 31	21 4	0 1	5 29	0 40	15 19	1 50	7 27	12 34	20 36	20 23	26 10	13 22	1 26
S 9	17 22	21 54	4 42	9 42	2 7	10 38	1 23	21 0	0 27	3 8	1 30	21 5	0 1	5 28	0 40	15 18	1 50	7 27	12 33	20 38	20 24	26 10	13 23	1 26
S 10	17 38	24 28	4 14	10 26	1 59	11 5	1 22	21 9	0 28	3 8	1 30	21 5	0 1	5 27	0 40	15 18	1 50	7 28	12 33	20 41	20 24	26 9	13 24	1 26
M11	17 53	25 54	3 34	11 11	1 52	11 31	1 21	21 18	0 29	3 9	1 30	21 5	0 1	5 27	0 40	15 17	1 50	7 28	12 33	20 43	20 25	26 9	13 25	1 26
T 12	18 9	26 7	2 45	11 55	1 44	11 57	1 19	21 26	0 29	3 10	1 30	21 5	0 1	5 26	0 40	15 17	1 50	7 28	12 33	20 44	20 25	26 8	13 26	1 26
W13	18 24	25 9	1 49	12 40	1 35	12 22	1 18	21 34	0 30	3 10	1 29	21 5	0 1	5 25	0 40	15 16	1 50	7 29	12 33	20 45	20 26	26 7	13 28	1 26
T 14	18 38	23 3	0 48	13 26	1 26	12 48	1 17	21 42	0 30	3 11	1 29	21 6	0 1	5 24	0 40	15 16	1 50	7 29	12 33	20 45	20 27	26 7	13 29	1 26
F 15	18 53	19 57	0n15	14 11	1 17	13 13	1 15	21 50	0 31	3 11	1 29	21 6	0 1	5 24	0 40	15 15	1 50	7 29	12 33	20 45	20 27	26 6	13 30	1 27
S 16	19 7	15 59	1 18	14 56	1 7	13 37	1 14	21 58	0 31	3 11	1 29	21 6	0 0	5 23	0 40	15 15	1 50	7 30	12 33	20 45	20 28	26 5	13 31	1 27
S 17	19 20	11 18	2 19	15 41	0 57	14 2	1 12	22 5	0 32	3 11	1 28	21 6	0 0	5 22	0 40	15 15	1 50	7 30	12 33	20 45	20 29	26 5	13 32	1 27
M18	19 34	6 4	3 15	16 26	0 47	14 26	1 10	22 13	0 32	3 11	1 28	21 7	0 0	5 22	0 40	15 14	1 50	7 30	12 33	20 45	20 29	26 4	13 33	1 27
T 19	19 47	0 25	4 3	17 10	0 37	14 50	1 9	22 20	0 33	3 12	1 28	21 7	0 0	5 21	0 39	15 14	1 50	7 31	12 33	20 46	20 30	26 3	13 35	1 27
W20	20 0	5n25	4 39	17 53	0 26	15 13	1 7	22 27	0 33	3 11	1 28	21 7	0 0	5 21	0 39	15 13	1 50	7 31	12 33	20 47	20 31	26 3	13 36	1 27
T 21	20 12	11 12	5 1	18 36	0 16	15 36	1 5	22 33	0 34	3 11	1 28	21 8	0 0	5 20	0 39	15 13	1 50	7 31	12 33	20 48	20 31	26 2	13 37	1 27
F 22	20 24	16 35	5 5	19 17	0 5	15 59	1 3	22 40	0 34	3 11	1 27	21 8	0s 0	5 19	0 39	15 12	1 50	7 32	12 33	20 49	20 32	26 1	13 38	1 27
S 23	20 36	21 10	4 50	19 57	0n 5	16 21	1 2	22 46	0 35	3 11	1 27	21 8	0 0	5 19	0 39	15 12	1 50	7 32	12 33	20 51	20 33	26 0	13 39	1 27
S 24	20 47	24 27	4 14	20 36	0 16	16 43	1 0	22 52	0 35	3 11	1 27	21 9	0 0	5 18	0 39	15 12	1 50	7 32	12 33	20 52	20 33	26 0	13 40	1 27
M25	20 58	26 3	3 21	21 12	0 26	17 4	0 58	22 58	0 36	3 10	1 27	21 9	0 0	5 18	0 39	15 11	1 50	7 32	12 33	20 54	20 34	25 59	13 41	1 28
T 26	21 9	25 42	2 13	21 47	0 36	17 25	0 56	23 3	0 36	3 10	1 26	21 10	0 0	5 17	0 39	15 11	1 50	7 33	12 33	20 55	20 35	25 58	13 42	1 28
W27	21 19	23 30	0 57	22 20	0 46	17 46	0 54	23 9	0 37	3 9	1 26	21 10	0 0	5 17	0 39	15 10	1 50	7 33	12 33	20 55	20 35	25 58	13 43	1 28
T 28	21 29	19 46	0s21	22 50	0 56	18 6	0 52	23 14	0 37	3 9	1 26	21 11	0 1	5 16	0 39	15 10	1 50	7 33	12 33	20 55	20 36	25 57	13 45	1 28
F 29	21 38	14 56	1 37	23 18	1 5	18 26	0 50	23 19	0 38	3 8	1 26	21 11	0 1	5 16	0 39	15 9	1 50	7 34	12 33	20 55	20 36	25 56	13 46	1 28
S 30	21 47	9 26	2 45	23 43	1 13	18 45	0 48	23 24	0 38	3 7	1 25	21 12	0 1	5 16	0 39	15 9	1 50	7 34	12 33	20 55	20 37	25 55	13 47	1 28
S 31	21n56	3n38	3s41	24n 5	1n21	19n 3	0s45	23n29	0n39	3n 6	1n25	21s12	0s 1	5s15	0n39	15s 9	1n50	7n34	12s33	20s55	20s38	25s55	13n48	1s28

Julian Day Number = 2319082.5, Delta T = 52.33 sec
Ecliptic obliquity = 23°29'16, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'42, Lahiri = 18°47'43Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

JUNE 1637 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 38 51	10♊34'26	25♍15	18♊ 8	29♉24	17♊31	25♍29	24°R53	14°R48	16°R49	28♉19	26°R24	27♋49	29♐59	11♉11	M 1
T 2	16 42 47	11°31'48	8♎ 9	20°15	0♊38	18°12	25°31	24♋50	14♎47	16♏48	28°20	26♋21	27°46	0♑ 6	11°15	T 2
W 3	16 46 44	12°29'09	20°47	22°20	1°51	18°52	25°33	24°47	14°46	16°47	28°21	26°17	27°43	0°12	11°18	W 3
T 4	16 50 40	13°26'29	3♏13	24°24	3° 5	19°33	25°35	24°45	14°45	16°45	28°23	26°10	27°40	0°19	11°22	T 4
F 5	16 54 37	14°23'48	15°28	26°25	4°18	20°13	25°38	24°42	14°45	16°44	28°24	26° 3	27°37	0°26	11°26	F 5
S 6	16 58 33	15°21'07	27°33	28°25	5°32	20°53	25°40	24°39	14°44	16°42	28°25	25°55	27°33	0°32	11°29	S 6
S 7	17 2 30	16°18'24	9♐32	0♋23	6°45	21°34	25°43	24°36	14°43	16°41	28°26	25°49	27°30	0°39	11°33	S 7
M 8	17 6 26	17°15'41	21°25	2°18	7°59	22°14	25°46	24°33	14°42	16°40	28°28	25°43	27°27	0°46	11°36	M 8
T 9	17 10 23	18°12'57	3♑15	4°11	9°12	22°55	25°49	24°30	14°41	16°38	28°29	25°39	27°24	0°52	11°40	T 9
W10	17 14 20	19°10'13	15° 3	6° 2	10°26	23°35	25°52	24°27	14°41	16°37	28°30	25°37	27°21	0°59	11°43	W10
T 11	17 18 16	20° 7'28	26°52	7°50	11°39	24°15	25°55	24°24	14°40	16°36	28°32	25°D36	27°18	1° 6	11°47	T 11
F 12	17 22 13	21° 4'43	8♒45	9°36	12°53	24°55	25°59	24°20	14°40	16°34	28°33	25°37	27°14	1°12	11°50	F 12
S 13	17 26 9	22° 1'57	20°46	11°20	14° 6	25°35	26° 3	24°17	14°39	16°33	28°34	25°38	27°11	1°19	11°54	S 13
S 14	17 30 6	22°59'11	2♓59	13° 1	15°20	26°16	26° 7	24°14	14°39	16°32	28°35	25°40	27° 8	1°26	11°57	S 14
M15	17 34 2	23°56'25	15°29	14°40	16°33	26°56	26°11	24°10	14°38	16°31	28°37	25°41	27° 5	1°32	12° 0	M15
T 16	17 37 59	24°53'38	28°19	16°17	17°47	27°36	26°15	24° 7	14°38	16°29	28°38	25°R41	27° 2	1°39	12° 4	T 16
W17	17 41 55	25°50'52	11♈34	17°51	19° 0	28°16	26°19	24° 3	14°38	16°28	28°39	25°40	26°59	1°46	12° 7	W17
T 18	17 45 52	26°48'05	25°16	19°22	20°14	28°56	26°24	24° 0	14°37	16°27	28°40	25°38	26°55	1°52	12°10	T 18
F 19	17 49 49	27°45'19	9♉26	20°51	21°28	29°36	26°28	23°56	14°37	16°26	28°42	25°35	26°52	1°59	12°13	F 19
S 20	17 53 45	28°42'32	24° 1	22°18	22°41	0♋16	26°33	23°52	14°37	16°25	28°43	25°31	26°49	2° 6	12°17	S 20
S 21	17 57 42	29°39'46	8♊58	23°42	23°55	0°56	26°38	23°48	14°37	16°24	28°44	25°28	26°46	2°12	12°20	S 21
M22	18 1 38	0♋36'59	24° 7	25° 4	25° 9	1°35	26°43	23°44	14°D37	16°23	28°45	25°25	26°43	2°19	12°23	M22
T 23	18 5 35	1°34'12	9♋19	26°23	26°22	2°15	26°48	23°41	14°37	16°22	28°46	25°23	26°39	2°25	12°26	T 23
W24	18 9 31	2°31'25	24°26	27°39	27°36	2°55	26°54	23°37	14°37	16°21	28°48	25°D23	26°36	2°32	12°29	W24
T 25	18 13 28	3°28'38	9♌17	28°53	28°49	3°35	26°59	23°33	14°37	16°20	28°49	25°23	26°33	2°39	12°32	T 25
F 26	18 17 24	4°25'50	23°47	0♌ 3	0♋ 3	4°15	27° 5	23°29	14°37	16°19	28°50	25°24	26°30	2°45	12°35	F 26
S 27	18 21 21	5°23'02	7♍53	1°11	1°17	4°54	27°11	23°25	14°38	16°18	28°51	25°25	26°27	2°52	12°38	S 27
S 28	18 25 18	6°20'13	21°32	2°17	2°30	5°34	27°17	23°20	14°38	16°17	28°52	25°27	26°24	2°59	12°40	S 28
M29	18 29 14	7°17'24	4♎47	3°19	3°44	6°14	27°23	23°16	14°38	16°16	28°53	25°R27	26°20	3° 5	12°43	M29
T 30	18 33 11	8♋14'35	17♎40	4♌18	4♋58	6♋53	27♍29	23♋12	14♎39	16♏15	28♉54	25♋27	26♋17	3♋12	12♉46	T 30

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷		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	
M 1	22n 5	2s10	4s25	24n25	1n28	19n22	0s43	23n33	0n39	3n 6	1n25	21s13	0s 1	5s15	0n39	15s 8	1n50	7n34	12s33	20s55	20s38	25s54	13n49	1s28	M 1
T 2	22 13	7 44	4 54	24 42	1 35	19 39	0 41	23 37	0 40	3 5	1 25	21 13	0 1	5 14	0 39	15 8	1 50	7 35	12 33	20 55	20 39	25 53	13 50	1 29	T 2
W 3	22 20	12 53	5 7	24 56	1 41	19 56	0 39	23 41	0 40	3 4	1 24	21 14	0 1	5 14	0 39	15 8	1 50	7 35	12 33	20 56	20 40	25 52	13 51	1 29	W 3
T 4	22 28	17 24	5 7	25 8	1 46	20 13	0 37	23 45	0 41	3 2	1 24	21 14	0 1	5 14	0 39	15 7	1 50	7 35	12 33	20 58	20 40	25 51	13 52	1 29	T 4
F 5	22 34	21 9	4 52	25 17	1 50	20 29	0 34	23 48	0 41	3 1	1 24	21 15	0 1	5 13	0 39	15 7	1 50	7 35	12 33	20 59	20 41	25 51	13 53	1 29	F 5
S 6	22 41	23 56	4 24	25 23	1 54	20 45	0 32	23 52	0 41	3 0	1 24	21 16	0 1	5 13	0 39	15 6	1 50	7 36	12 33	21 0	20 41	25 50	13 54	1 29	S 6
S 7	22 47	25 37	3 44	25 26	1 57	21 0	0 30	23 55	0 42	2 59	1 23	21 16	0 1	5 13	0 39	15 6	1 50	7 36	12 33	21 2	20 42	25 49	13 55	1 29	S 7
M 8	22 53	26 7	2 55	25 28	2 0	21 14	0 27	23 58	0 42	2 57	1 23	21 17	0 1	5 13	0 39	15 6	1 50	7 36	12 33	21 3	20 43	25 48	13 56	1 29	M 8
T 9	22 58	25 26	1 59	25 26	2 1	21 28	0 25	24 1	0 43	2 56	1 23	21 17	0 2	5 12	0 39	15 5	1 50	7 36	12 33	21 3	20 43	25 47	13 57	1 30	T 9
W10	23 3	23 35	0 57	25 23	2 2	21 41	0 23	24 3	0 43	2 54	1 23	21 18	0 2	5 12	0 39	15 5	1 50	7 36	12 33	21 4	20 44	25 46	13 58	1 30	W10
T 11	23 7	20 43	0n 7	25 17	2 2	21 53	0 20	24 5	0 44	2 53	1 22	21 19	0 2	5 12	0 39	15 5	1 50	7 37	12 33	21 4	20 45	25 46	13 59	1 30	T 11
F 12	23 11	16 58	1 11	25 9	2 1	22 5	0 18	24 7	0 44	2 51	1 22	21 19	0 2	5 12	0 39	15 4	1 50	7 37	12 33	21 4	20 45	25 45	13 59	1 30	F 12
S 13	23 15	12 30	2 13	24 59	2 0	22 17	0 16	24 9	0 45	2 50	1 22	21 20	0 2	5 12	0 39	15 4	1 50	7 37	12 33	21 3	20 46	25 44	14 0	1 30	S 13
S 14	23 18	7 28	3 10	24 48	1 58	22 28	0 13	24 11	0 45	2 48	1 22	21 21	0 2	5 11	0 39	15 4	1 50	7 37	12 33	21 3	20 46	25 43	14 1	1 30	S 14
M15	23 21	2 3	4 0	24 35	1 55	22 38	0 11	24 13	0 45	2 46	1 21	21 21	0 2	5 11	0 39	15 3	1 50	7 37	12 34	21 3	20 47	25 42	14 2	1 30	M15
T 16	23 23	3n36	4 39	24 20	1 51	22 47	0 8	24 14	0 46	2 44	1 21	21 22	0 2	5 11	0 38	15 3	1 49	7 38	12 34	21 3	20 48	25 41	14 3	1 31	T 16
W17	23 25	9 15	5 4	24 4	1 47	22 56	0 6	24 15	0 46	2 42	1 21	21 23	0 2	5 11	0 38	15 3	1 49	7 38	12 34	21 3	20 48	25 40	14 4	1 31	W17
T 18	23 27	14 39	5 14	23 47	1 42	23 4	0 4	24 16	0 47	2 40	1 21	21 24	0 2	5 11	0 38	15 3	1 49	7 38	12 34	21 3	20 49	25 39	14 5	1 31	T 18
F 19	23 28	19 28	5 5	23 28	1 37	23 11	0 1	24 16	0 47	2 38	1 20	21 24	0 2	5 11	0 38	15 2	1 49	7 38	12 34	21 4	20 50	25 39	14 5	1 31	F 19
S 20	23 29	23 16	4 36	23 8	1 31	23 18	0n 1	24 17	0 48	2 36	1 20	21 25	0 3	5 11	0 38	15 2	1 49	7 38	12 34	21 5	20 50	25 38	14 6	1 31	S 20
S 21	23 29	25 36	3 48	22 47	1 24	23 24	0 4	24 17	0 48	2 34	1 20	21 26	0 3	5 11	0 38	15 2	1 49	7 38	12 34	21 5	20 51	25 37	14 7	1 31	S 21
M22	23 29	26 5	2 44	22 26	1 17	23 30	0 6	24 17	0 48	2 32	1 20	21 26	0 3	5 11	0 38	15 1	1 49	7 38	12 34	21 6	20 51	25 36	14 8	1 31	M22
T 23	23 29	24 37	1 27	22 3	1 9	23 35	0 8	24 17	0 49	2 29	1 20	21 27	0 3	5 11	0 38	15 1	1 49	7 39	12 34	21 6	20 52	25 35	14 9	1 32	T 23
W24	23 28	21 22	0 5	21 40	1 1	23 39	0 11	24 16	0 49	2 27	1 19	21 28	0 3	5 11	0 38	15 1	1 49	7 39	12 34	21 6	20 53	25 34	14 9	1 32	W24
T 25	23 26	16 45	1s16	21 17	0 52	23 42	0 13	24 16	0 50	2 25	1 19	21 29	0 3	5 11	0 38	15 1	1 49	7 39	12 35	21 6	20 53	25 33	14 10	1 32	T 25
F 26	23 25	11 15	2 30	20 53	0 43	23 45	0 15	24 15	0 50	2 22	1 19	21 30	0 3	5 11	0 38	15 1	1 49	7 39	12 35	21 6	20 54	25 32	14 11	1 32	F 26
S 27	23 23	5 20	3 34	20 28	0 33	23 47	0 18	24 14	0 50	2 20	1 19	21 30	0 3	5 11	0 38	15 0	1 49	7 39	12 35	21 6	20 54	25 31	14 12	1 32	S 27
S 28	23 20	0s40	4 23	20 3	0 22	23 48	0 20	24 13	0 51	2 17	1 18	21 31	0 3	5 12	0 38	15 0	1 49	7 39	12 35	21 6	20 55	25 30	14 12	1 32	S 28
M29	23 17	6 26	4 56	19 38	0 12	23 48	0 22	24 11	0 51	2 14	1 18	21 32	0 3	5 12	0 38	15 0	1 49	7 39	12 35	21 6	20 56	25 29	14 13	1 33	M29
T 30	23n14	11s46	5s13	19n14	0n 0	23n48	0n25	24n10	0n51	2n12	1n18	21s33	0s 3	5s12	0n38	15s 0	1n49	7n39	12s35	21s 6	20s56	25s28	14n14	1s33	T 30

Julian Day Number = 2319113.5, Delta T = 52.27 sec
Ecliptic obliquity = 23°29'15, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'46, Lahiri = 18°47'47Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

JULY 1637 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 37 7	9♋11'46	0♏13	5♌14	6♋12	7♋33	27♍36	23°R 8	14♎39	16°R14	28♉55	25°R26	26♑14	3♑19	12♉49	W 1
T 2	18 41 4	10° 8'57	12°32	6° 7	7°25	8°12	27°42	23♑ 4	14°39	16♏14	28°56	25♑24	26°11	3°25	12°51	T 2
F 3	18 45 0	11° 6'07	24°38	6°56	8°39	8°52	27°49	22°59	14°40	16°13	28°58	25°22	26° 8	3°32	12°54	F 3
S 4	18 48 57	12° 3'18	6♐35	7°42	9°53	9°31	27°56	22°55	14°41	16°12	28°59	25°20	26° 5	3°39	12°57	S 4
S 5	18 52 53	13° 0'28	18°27	8°24	11° 7	10°11	28° 3	22°51	14°41	16°11	29° 0	25°18	26° 1	3°45	12°59	S 5
M 6	18 56 50	13°57'39	0♑16	9° 2	12°20	10°50	28°10	22°46	14°42	16°11	29° 1	25°17	25°58	3°52	13° 2	M 6
T 7	19 0 47	14°54'50	12° 5	9°36	13°34	11°29	28°17	22°42	14°43	16°10	29° 2	25°16	25°55	3°59	13° 4	T 7
W 8	19 4 43	15°52'01	23°55	10° 7	14°48	12° 9	28°24	22°38	14°44	16° 9	29° 3	25°D16	25°52	4° 5	13° 6	W 8
T 9	19 8 40	16°49'13	5♒49	10°33	16° 2	12°48	28°32	22°33	14°44	16° 9	29° 4	25°16	25°49	4°12	13° 9	T 9
F 10	19 12 36	17°46'24	17°50	10°54	17°15	13°27	28°39	22°29	14°45	16° 8	29° 5	25°17	25°45	4°19	13°11	F 10
S 11	19 16 33	18°43'37	29°59	11°12	18°29	14° 7	28°47	22°25	14°46	16° 8	29° 6	25°17	25°42	4°25	13°13	S 11
S 12	19 20 29	19°40'50	12♓20	11°24	19°43	14°46	28°55	22°20	14°47	16° 7	29° 6	25°18	25°39	4°32	13°15	S 12
M13	19 24 26	20°38'03	24°55	11°32	20°57	15°25	29° 3	22°16	14°48	16° 7	29° 7	25°18	25°36	4°39	13°18	M13
T 14	19 28 23	21°35'17	7♈48	11°R35	22°11	16° 4	29°11	22°11	14°49	16° 6	29° 8	25°19	25°33	4°45	13°20	T 14
W15	19 32 19	22°32'32	21° 1	11°33	23°25	16°43	29°19	22° 7	14°51	16° 6	29° 9	25°R19	25°30	4°52	13°22	W15
T 16	19 36 16	23°29'48	4♉37	11°27	24°39	17°22	29°27	22° 2	14°52	16° 5	29°10	25°19	25°26	4°59	13°24	T 16
F 17	19 40 12	24°27'05	18°36	11°15	25°52	18° 2	29°35	21°58	14°53	16° 5	29°11	25°19	25°23	5° 5	13°26	F 17
S 18	19 44 9	25°24'23	2♊58	10°58	27° 6	18°41	29°44	21°54	14°54	16° 5	29°12	25°D19	25°20	5°12	13°28	S 18
S 19	19 48 5	26°21'42	17°40	10°37	28°20	19°20	29°53	21°49	14°56	16° 4	29°13	25°19	25°17	5°19	13°29	S 19
M20	19 52 2	27°19'01	2♋37	10°11	29°34	19°59	0♎ 1	21°45	14°57	16° 4	29°13	25°19	25°14	5°25	13°31	M20
T 21	19 55 58	28°16'22	17°41	9°41	0♌48	20°38	0°10	21°40	14°59	16° 4	29°14	25°19	25°11	5°32	13°33	T 21
W22	19 59 55	29°13'43	2♌45	9° 7	2° 2	21°17	0°19	21°36	15° 0	16° 4	29°15	25°R19	25° 7	5°39	13°35	W22
T 23	20 3 52	0♌11'05	17°38	8°30	3°16	21°56	0°28	21°32	15° 2	16° 3	29°16	25°19	25° 4	5°45	13°36	T 23
F 24	20 7 48	1° 8'27	2♍15	7°50	4°30	22°34	0°37	21°27	15° 3	16° 3	29°16	25°18	25° 1	5°52	13°38	F 24
S 25	20 11 45	2° 5'50	16°28	7° 7	5°44	23°13	0°47	21°23	15° 5	16° 3	29°17	25°18	24°58	5°58	13°39	S 25
S 26	20 15 41	3° 3'14	0♎15	6°23	6°58	23°52	0°56	21°19	15° 7	16° 3	29°18	25°17	24°55	6° 5	13°41	S 26
M27	20 19 38	4° 0'38	13°36	5°37	8°12	24°31	1° 5	21°14	15° 8	16° 3	29°18	25°16	24°51	6°12	13°42	M27
T 28	20 23 34	4°58'03	26°33	4°52	9°26	25°10	1°15	21°10	15°10	16°D 3	29°19	25°15	24°48	6°18	13°43	T 28
W29	20 27 31	5°55'29	9♏ 7	4° 7	10°40	25°49	1°25	21° 6	15°12	16° 3	29°20	25°D15	24°45	6°25	13°45	W29
T 30	20 31 27	6°52'55	21°23	3°24	11°54	26°27	1°34	21° 2	15°14	16° 3	29°20	25°16	24°42	6°32	13°46	T 30
F 31	20 35 24	7♌50'23	3♐26	2♌44	13♌ 8	27♋ 6	1♎44	20♑58	15♎16	16♏ 3	29♉21	25♑17	24♑39	6♑38	13♉47	F 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
W 1	23n10	16s29	5s15	18n49	0s12	23n47	0n27	24n 8	0n52	2n 9	1n18	21s33	0s 4	5s12	0n38	14s59	1n49	7n40	12s35	21s 6	20s57	25s27	14n14	1s33
T 2	23 6	20 25	5 2	18 24	0 24	23 46	0 29	24 6	0 52	2 6	1 18	21 34	0 4	5 12	0 38	14 59	1 49	7 40	12 35	21 6	20 57	25 26	14 15	1 33
F 3	23 1	23 25	4 36	18 0	0 36	23 44	0 31	24 4	0 53	2 3	1 17	21 35	0 4	5 13	0 38	14 59	1 49	7 40	12 36	21 6	20 58	25 25	14 16	1 33
S 4	22 56	25 22	3 58	17 35	0 49	23 41	0 34	24 2	0 53	2 0	1 17	21 36	0 4	5 13	0 38	14 59	1 49	7 40	12 36	21 7	20 59	25 24	14 16	1 33
S 5	22 51	26 8	3 10	17 12	1 2	23 37	0 36	23 59	0 53	1 57	1 17	21 37	0 4	5 13	0 38	14 59	1 49	7 40	12 36	21 7	20 59	25 23	14 17	1 34
M 6	22 45	25 43	2 14	16 49	1 16	23 32	0 38	23 56	0 54	1 54	1 17	21 38	0 4	5 14	0 38	14 59	1 49	7 40	12 36	21 7	21 0	25 22	14 17	1 34
T 7	22 39	24 8	1 12	16 26	1 30	23 27	0 40	23 53	0 54	1 51	1 16	21 38	0 4	5 14	0 38	14 59	1 48	7 40	12 36	21 8	21 0	25 21	14 18	1 34
W 8	22 33	21 29	0 7	16 5	1 44	23 22	0 42	23 50	0 54	1 48	1 16	21 39	0 4	5 14	0 38	14 58	1 48	7 40	12 36	21 8	21 1	25 20	14 19	1 34
T 9	22 26	17 55	0n58	15 44	1 58	23 15	0 44	23 47	0 55	1 45	1 16	21 40	0 4	5 15	0 38	14 58	1 48	7 40	12 36	21 8	21 2	25 19	14 19	1 34
F 10	22 18	13 35	2 2	15 25	2 12	23 8	0 46	23 43	0 55	1 42	1 16	21 41	0 4	5 15	0 38	14 58	1 48	7 40	12 37	21 7	21 2	25 18	14 20	1 34
S 11	22 11	8 40	3 1	15 6	2 26	23 0	0 48	23 40	0 56	1 39	1 16	21 42	0 4	5 15	0 37	14 58	1 48	7 40	12 37	21 7	21 3	25 17	14 20	1 35
S 12	22 2	3 22	3 53	14 49	2 41	22 52	0 50	23 36	0 56	1 35	1 15	21 42	0 5	5 16	0 37	14 58	1 48	7 40	12 37	21 7	21 3	25 16	14 21	1 35
M13	21 54	2n10	4 34	14 33	2 55	22 42	0 52	23 32	0 56	1 32	1 15	21 43	0 5	5 16	0 37	14 58	1 48	7 40	12 37	21 7	21 4	25 15	14 21	1 35
T 14	21 45	7 44	5 3	14 19	3 9	22 32	0 54	23 27	0 57	1 29	1 15	21 44	0 5	5 17	0 37	14 58	1 48	7 40	12 37	21 7	21 4	25 14	14 22	1 35
W15	21 36	13 6	5 17	14 7	3 22	22 22	0 56	23 23	0 57	1 25	1 15	21 45	0 5	5 17	0 37	14 58	1 48	7 40	12 37	21 7	21 5	25 13	14 22	1 35
T 16	21 26	18 0	5 14	13 56	3 36	22 11	0 57	23 18	0 57	1 22	1 15	21 46	0 5	5 18	0 37	14 58	1 48	7 40	12 38	21 7	21 6	25 12	14 22	1 35
F 17	21 16	22 4	4 52	13 47	3 48	21 59	0 59	23 13	0 58	1 18	1 15	21 46	0 5	5 18	0 37	14 58	1 48	7 40	12 38	21 7	21 6	25 11	14 23	1 36
S 18	21 6	24 54	4 12	13 40	4 0	21 46	1 1	23 8	0 58	1 15	1 14	21 47	0 5	5 19	0 37	14 58	1 48	7 40	12 38	21 7	21 7	25 10	14 23	1 36
S 19	20 55	26 8	3 14	13 35	4 11	21 33	1 2	23 3	0 58	1 11	1 14	21 48	0 5	5 19	0 37	14 58	1 48	7 40	12 38	21 7	21 7	25 8	14 24	1 36
M20	20 44	25 31	2 3	13 32	4 22	21 19	1 4	22 58	0 59	1 7	1 14	21 49	0 5	5 20	0 37	14 58	1 48	7 40	12 38	21 7	21 8	25 7	14 24	1 36
T 21	20 33	23 1	0 42	13 31	4 31	21 5	1 6	22 52	0 59	1 4	1 14	21 50	0 5	5 21	0 37	14 58	1 48	7 40	12 39	21 7	21 9	25 6	14 24	1 36
W22	20 21	18 55	0s41	13 32	4 39	20 50	1 7	22 47	0 59	1 0	1 14	21 50	0 5	5 21	0 37	14 58	1 48	7 40	12 39	21 7	21 9	25 5	14 25	1 37
T 23	20 9	13 39	2 1	13 35	4 45	20 35	1 9	22 41	1 0	0 56	1 13	21 51	0 5	5 22	0 37	14 58	1 48	7 40	12 39	21 7	21 10	25 4	14 25	1 37
F 24	19 57	7 43	3 11	13 40	4 50	20 18	1 10	22 35	1 0	0 52	1 13	21 52	0 6	5 22	0 37	14 58	1 47	7 40	12 39	21 7	21 10	25 3	14 25	1 37
S 25	19 44	1 33	4 7	13 48	4 53	20 2	1 11	22 28	1 0	0 48	1 13	21 53	0 6	5 23	0 37	14 58	1 47	7 40	12 39	21 7	21 11	25 2	14 25	1 37
S 26	19 31	4s30	4 48	13 57	4 55	19 44	1 13	22 22	1 1	0 45	1 13	21 53	0 6	5 24	0 37	14 58	1 47	7 40	12 40	21 7	21 11	25 1	14 26	1 37
M27	19 17	10 9	5 11	14 8	4 55	19 26	1 14	22 16	1 1	0 41	1 13	21 54	0 6	5 25	0 37	14 58	1 47	7 40	12 40	21 8	21 12	24 59	14 26	1 38
T 28	19 4	15 11	5 17	14 21	4 53	19 8	1 15	22 9	1 1	0 37	1 13	21 55	0 6	5 25	0 37	14 58	1 47	7 40	12 40	21 8	21 13	24 58	14 26	1 38
W29	18 50	19 25	5 8	14 35	4 49	18 49	1 16	22 2	1 1	0 33	1 12	21 56	0 6	5 26	0 37	14 58	1 47	7 40	12 40	21 8	21 13	24 57	14 26	1 38
T 30	18 35	22 43	4 45	14 50	4 44	18 29	1 17	21 55	1 2	0 29	1 12	21 56	0 6	5 27	0 37	14 58	1 47	7 40	12 40	21 8	21 14	24 56	14 27	1 38
F 31	18n21	24s58	4s10	15n 6	4s37	18n 9	1n18	21n48	1n 2	0n25	1n12	21s57	0s 6	5s28	0n37	14s58	1n47	7n39	12s41	21s 7	21s14	24s55	14n27	1s38

Julian Day Number = 2319143.5, Delta T = 52.21 sec
Ecliptic obliquity = 23°29'15, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'50, Lahiri = 18°47'51Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

AUGUST 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 39 21	8♌47'51	15♐20	2°R 6	14♌22	27♋45	1♎54	20°R53	15♎18	16♏ 3	29♑22	25♑18	24♑36	6♑45	13♑48	S 1
S 2	20 43 17	9°45'19	27°10	1♌33	15°37	28°23	2° 4	20♑49	15°20	16° 3	29°22	25°19	24°32	6°52	13°49	S 2
M 3	20 47 14	10°42'49	8♑58	1° 4	16°51	29° 2	2°14	20°45	15°22	16° 3	29°23	25°20	24°29	6°58	13°50	M 3
T 4	20 51 10	11°40'20	20°48	0°40	18° 5	29°41	2°24	20°41	15°24	16° 4	29°23	25°R21	24°26	7° 5	13°51	T 4
W 5	20 55 7	12°37'52	2♒44	0°23	19°19	0♌19	2°35	20°37	15°26	16° 4	29°24	25°21	24°23	7°12	13°52	W 5
T 6	20 59 3	13°35'24	14°47	0°11	20°33	0°58	2°45	20°33	15°28	16° 4	29°24	25°20	24°20	7°18	13°53	T 6
F 7	21 3 0	14°32'58	27° 0	0°D 6	21°47	1°37	2°56	20°30	15°31	16° 4	29°25	25°18	24°17	7°25	13°53	F 7
S 8	21 6 56	15°30'33	9♓23	0° 8	23° 1	2°15	3° 6	20°26	15°33	16° 5	29°25	25°15	24°13	7°32	13°54	S 8
S 9	21 10 53	16°28'10	21°59	0°18	24°15	2°54	3°17	20°22	15°35	16° 5	29°26	25°12	24°10	7°38	13°55	S 9
M10	21 14 50	17°25'48	4♈48	0°34	25°29	3°32	3°27	20°18	15°38	16° 6	29°26	25° 9	24° 7	7°45	13°55	M10
T 11	21 18 46	18°23'27	17°51	0°58	26°44	4°11	3°38	20°15	15°40	16° 6	29°26	25° 6	24° 4	7°52	13°56	T 11
W12	21 22 43	19°21'08	1♉10	1°29	27°58	4°49	3°49	20°11	15°43	16° 6	29°27	25° 4	24° 1	7°58	13°56	W12
T 13	21 26 39	20°18'51	14°45	2° 7	29°12	5°27	4° 0	20° 8	15°45	16° 7	29°27	25°D 3	23°57	8° 5	13°57	T 13
F 14	21 30 36	21°16'36	28°37	2°52	0♍26	6° 6	4°11	20° 4	15°48	16° 8	29°28	25° 3	23°54	8°12	13°57	F 14
S 15	21 34 32	22°14'22	12♊45	3°45	1°40	6°44	4°22	20° 1	15°50	16° 8	29°28	25° 4	23°51	8°18	13°57	S 15
S 16	21 38 29	23°12'10	27° 9	4°44	2°54	7°23	4°33	19°57	15°53	16° 9	29°28	25° 5	23°48	8°25	13°57	S 16
M17	21 42 25	24°10'00	11♋45	5°50	4° 9	8° 1	4°44	19°54	15°55	16° 9	29°28	25° 6	23°45	8°31	13°58	M17
T 18	21 46 22	25° 7'51	26°29	7° 2	5°23	8°39	4°55	19°51	15°58	16°10	29°29	25°R 7	23°42	8°38	13°58	T 18
W19	21 50 19	26° 5'44	11♌15	8°20	6°37	9°18	5° 7	19°48	16° 1	16°11	29°29	25° 6	23°38	8°45	13°R58	W19
T 20	21 54 15	27° 3'38	25°57	9°43	7°51	9°56	5°18	19°45	16° 4	16°11	29°29	25° 4	23°35	8°51	13°58	T 20
F 21	21 58 12	28° 1'34	10♍27	11°12	9° 5	10°34	5°30	19°42	16° 6	16°12	29°29	25° 0	23°32	8°58	13°57	F 21
S 22	22 2 8	28°59'32	24°38	12°45	10°20	11°12	5°41	19°39	16° 9	16°13	29°29	24°55	23°29	9° 5	13°57	S 22
S 23	22 6 5	29°57'31	8♎27	14°23	11°34	11°51	5°53	19°36	16°12	16°14	29°30	24°49	23°26	9°11	13°57	S 23
M24	22 10 1	0♍55'31	21°51	16° 4	12°48	12°29	6° 4	19°33	16°15	16°15	29°30	24°44	23°22	9°18	13°57	M24
T 25	22 13 58	1°53'33	4♏50	17°49	14° 2	13° 7	6°16	19°30	16°18	16°15	29°30	24°40	23°19	9°25	13°56	T 25
W26	22 17 54	2°51'36	17°27	19°36	15°17	13°45	6°28	19°28	16°21	16°16	29°30	24°37	23°16	9°31	13°56	W26
T 27	22 21 51	3°49'41	29°44	21°26	16°31	14°23	6°40	19°25	16°24	16°17	29°30	24°D36	23°13	9°38	13°55	T 27
F 28	22 25 48	4°47'47	11♐47	23°18	17°45	15° 2	6°51	19°23	16°27	16°18	29°30	24°36	23°10	9°45	13°55	F 28
S 29	22 29 44	5°45'54	23°40	25°11	18°59	15°40	7° 3	19°20	16°30	16°19	29°R30	24°37	23° 7	9°51	13°54	S 29
S 30	22 33 41	6°44'03	5♑29	27° 6	20°14	16°18	7°15	19°18	16°33	16°20	29°30	24°39	23° 3	9°58	13°54	S 30
M31	22 37 37	7♍42'14	17♑18	29♌ 1	21♍28	16♌56	7♎27	19♑16	16♎36	16♏21	29♑30	24♑40	23♑ 0	10♑ 5	13♑53	M31

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
S 1	18n 6	26s 3	3s24	15n23	4s28	17n49	1n19	21n40	1n 2	0n21	1n12	21s58	0s 6	5s28	0n37	14s58	1n47	7n39	12s41	21s 7	21s15	24s54	14n27	1s38
S 2	17 51	25 57	2 30	15 40	4 17	17 28	1 20	21 33	1 3	0 16	1 12	21 59	0 6	5 29	0 37	14 58	1 47	7 39	12 41	21 7	21 15	24 52	14 27	1 39
M 3	17 35	24 40	1 29	15 58	4 6	17 6	1 21	21 25	1 3	0 12	1 12	21 59	0 6	5 30	0 37	14 58	1 47	7 39	12 41	21 7	21 16	24 51	14 27	1 39
T 4	17 19	22 17	0 25	16 16	3 52	16 44	1 22	21 17	1 3	0 8	1 12	22 0	0 6	5 31	0 37	14 58	1 47	7 39	12 41	21 7	21 17	24 50	14 27	1 39
W 5	17 3	18 56	0n41	16 33	3 38	16 22	1 22	21 9	1 4	0 4	1 11	22 1	0 7	5 32	0 37	14 58	1 47	7 39	12 42	21 7	21 17	24 49	14 27	1 39
T 6	16 47	14 45	1 45	16 50	3 23	15 59	1 23	21 1	1 4	0s 0	1 11	22 1	0 7	5 33	0 37	14 59	1 47	7 39	12 42	21 7	21 18	24 48	14 27	1 39
F 7	16 30	9 56	2 46	17 7	3 7	15 36	1 24	20 53	1 4	0 5	1 11	22 2	0 7	5 33	0 36	14 59	1 47	7 39	12 42	21 7	21 18	24 46	14 27	1 40
S 8	16 13	4 40	3 40	17 22	2 51	15 12	1 24	20 45	1 4	0 9	1 11	22 3	0 7	5 34	0 36	14 59	1 47	7 39	12 42	21 8	21 19	24 45	14 27	1 40
S 9	15 56	0n51	4 24	17 37	2 34	14 48	1 25	20 36	1 5	0 13	1 11	22 3	0 7	5 35	0 36	14 59	1 47	7 38	12 43	21 8	21 19	24 44	14 27	1 40
M10	15 38	6 25	4 55	17 50	2 17	14 23	1 25	20 27	1 5	0 18	1 11	22 4	0 7	5 36	0 36	14 59	1 46	7 38	12 43	21 9	21 20	24 43	14 27	1 40
T 11	15 21	11 49	5 12	18 2	2 0	13 58	1 25	20 18	1 5	0 22	1 11	22 4	0 7	5 37	0 36	14 59	1 46	7 38	12 43	21 9	21 20	24 41	14 27	1 40
W12	15 3	16 47	5 13	18 12	1 43	13 33	1 26	20 9	1 5	0 27	1 10	22 5	0 7	5 38	0 36	15 0	1 46	7 38	12 43	21 10	21 21	24 40	14 27	1 41
T 13	14 45	21 0	4 56	18 20	1 26	13 7	1 26	20 0	1 6	0 31	1 10	22 6	0 7	5 39	0 36	15 0	1 46	7 38	12 43	21 10	21 22	24 39	14 27	1 41
F 14	14 26	24 9	4 22	18 26	1 9	12 41	1 26	19 51	1 6	0 36	1 10	22 6	0 7	5 40	0 36	15 0	1 46	7 38	12 44	21 10	21 22	24 38	14 27	1 41
S 15	14 8	25 53	3 32	18 30	0 52	12 15	1 26	19 42	1 6	0 40	1 10	22 7	0 7	5 41	0 36	15 0	1 46	7 38	12 44	21 10	21 23	24 36	14 27	1 41
S 16	13 49	25 55	2 28	18 32	0 37	11 48	1 26	19 32	1 7	0 45	1 10	22 7	0 7	5 42	0 36	15 0	1 46	7 37	12 44	21 10	21 23	24 35	14 27	1 41
M17	13 30	24 10	1 13	18 31	0 21	11 21	1 26	19 22	1 7	0 49	1 10	22 8	0 8	5 43	0 36	15 1	1 46	7 37	12 44	21 9	21 24	24 34	14 27	1 42
T 18	13 10	20 47	0s 8	18 27	0 6	10 53	1 26	19 13	1 7	0 54	1 10	22 9	0 8	5 44	0 36	15 1	1 46	7 37	12 45	21 9	21 24	24 33	14 26	1 42
W19	12 51	16 2	1 27	18 20	0n 8	10 26	1 26	19 3	1 7	0 58	1 10	22 9	0 8	5 45	0 36	15 1	1 46	7 37	12 45	21 9	21 25	24 31	14 26	1 42
T 20	12 31	10 22	2 41	18 11	0 21	9 58	1 26	18 53	1 8	1 3	1 9	22 10	0 8	5 47	0 36	15 1	1 46	7 37	12 45	21 10	21 25	24 30	14 26	1 42
F 21	12 11	4 14	3 43	17 59	0 33	9 30	1 25	18 43	1 8	1 8	1 9	22 10	0 8	5 48	0 36	15 2	1 46	7 36	12 45	21 11	21 26	24 29	14 26	1 42
S 22	11 51	1s59	4 29	17 44	0 45	9 1	1 25	18 32	1 8	1 12	1 9	22 11	0 8	5 49	0 36	15 2	1 46	7 36	12 46	21 11	21 26	24 27	14 26	1 43
S 23	11 31	7 56	4 59	17 26	0 55	8 32	1 24	18 22	1 8	1 17	1 9	22 11	0 8	5 50	0 36	15 2	1 46	7 36	12 46	21 12	21 27	24 26	14 25	1 43
M24	11 10	13 20	5 11	17 5	1 5	8 3	1 24	18 11	1 9	1 22	1 9	22 12	0 8	5 51	0 36	15 3	1 46	7 36	12 46	21 13	21 28	24 25	14 25	1 43
T 25	10 49	17 58	5 7	16 41	1 13	7 34	1 23	18 1	1 9	1 26	1 9	22 12	0 8	5 52	0 36	15 3	1 46	7 36	12 46	21 14	21 28	24 23	14 25	1 43
W26	10 28	21 40	4 47	16 15	1 21	7 5	1 23	17 50	1 9	1 31	1 9	22 12	0 8	5 53	0 36	15 3	1 46	7 35	12 47	21 15	21 29	24 22	14 24	1 43
T 27	10 7	24 17	4 15	15 46	1 27	6 35	1 22	17 39	1 9	1 36	1 9	22 13	0 8	5 55	0 36	15 4	1 45	7 35	12 47	21 15	21 29	24 21	14 24	1 44
F 28	9 46	25 45	3 32	15 14	1 33	6 6	1 21	17 28	1 9	1 41	1 9	22 13	0 8	5 56	0 36	15 4	1 45	7 35	12 47	21 15	21 30	24 19	14 24	1 44
S 29	9 25	26 0	2 41	14 41	1 37	5 36	1 20	17 17	1 10	1 46	1 8	22 14	0 8	5 57	0 36	15 4	1 45	7 35	12 47	21 15	21 30	24 18	14 23	1 44
S 30	9 3	25 5	1 42	14 5	1 41	5 6	1 19	17 6	1 10	1 50	1 8	22 14	0 9	5 58	0 36	15 5	1 45	7 35	12 47	21 14	21 31	24 17	14 23	1 44
M31	8n42	23s 2	0s40	13n28	1n44	4n36	1n18	16n54	1n10	1s55	1n 8	22s15	0s 9	5s59	0n36	15s 5	1n45	7n34	12s48	21s14	21s31	24s15	14n23	1s44

Julian Day Number = 2319174.5, Delta T = 52.15 sec
Ecliptic obliquity = 23°29'15, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'55, Lahiri = 18°47'55Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

SEPTEMBER 1637 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 41 34	8♍40'26	29♉11	0♍57	22♍42	17♌34	7♎39	19°R14	16♎39	16♏22	29°R30	24°R40	22♉57	10♉11	13°R52	T 1
W 2	22 45 30	9°38'39	11♒14	2°53	23°56	18°12	7°52	19♉12	16°42	16°24	29♉30	24♉39	22°54	10°18	13♉51	W 2
T 3	22 49 27	10°36'55	23°27	4°48	25°11	18°50	8° 4	19°10	16°46	16°25	29°30	24°35	22°51	10°25	13°50	T 3
F 4	22 53 23	11°35'12	5♓55	6°44	26°25	19°28	8°16	19° 8	16°49	16°26	29°30	24°30	22°48	10°31	13°49	F 4
S 5	22 57 20	12°33'30	18°36	8°39	27°39	20° 6	8°28	19° 6	16°52	16°27	29°30	24°22	22°44	10°38	13°48	S 5
S 6	23 1 17	13°31'51	1♈33	10°34	28°53	20°44	8°40	19° 4	16°55	16°28	29°29	24°14	22°41	10°44	13°47	S 6
M 7	23 5 13	14°30'13	14°43	12°28	0♎ 8	21°22	8°53	19° 3	16°59	16°29	29°29	24° 5	22°38	10°51	13°46	M 7
T 8	23 9 10	15°28'38	28° 6	14°21	1°22	22° 0	9° 5	19° 1	17° 2	16°31	29°29	23°57	22°35	10°58	13°45	T 8
W 9	23 13 6	16°27'05	11♉40	16°13	2°36	22°38	9°18	19° 0	17° 5	16°32	29°29	23°51	22°32	11° 4	13°44	W 9
T 10	23 17 3	17°25'34	25°24	18° 4	3°50	23°15	9°30	18°59	17° 9	16°33	29°29	23°46	22°28	11°11	13°42	T 10
F 11	23 20 59	18°24'05	9♊18	19°55	5° 4	23°53	9°43	18°57	17°12	16°35	29°28	23°44	22°25	11°18	13°41	F 11
S 12	23 24 56	19°22'38	23°20	21°44	6°19	24°31	9°55	18°56	17°16	16°36	29°28	23°D44	22°22	11°24	13°40	S 12
S 13	23 28 52	20°21'14	7♋29	23°33	7°33	25° 9	10° 8	18°55	17°19	16°38	29°28	23°45	22°19	11°31	13°38	S 13
M14	23 32 49	21°19'52	21°45	25°20	8°47	25°47	10°20	18°54	17°23	16°39	29°27	23°R45	22°16	11°38	13°37	M14
T 15	23 36 46	22°18'32	6♌ 6	27° 7	10° 1	26°25	10°33	18°54	17°26	16°41	29°27	23°45	22°13	11°44	13°35	T 15
W16	23 40 42	23°17'14	20°27	28°52	11°16	27° 2	10°46	18°53	17°30	16°42	29°27	23°42	22° 9	11°51	13°33	W16
T 17	23 44 39	24°15'59	4♍45	0♎37	12°30	27°40	10°58	18°52	17°33	16°44	29°26	23°37	22° 6	11°58	13°32	T 17
F 18	23 48 35	25°14'45	18°56	2°20	13°44	28°18	11°11	18°52	17°37	16°45	29°26	23°29	22° 3	12° 4	13°30	F 18
S 19	23 52 32	26°13'34	2♎53	4° 3	14°58	28°56	11°24	18°51	17°40	16°47	29°26	23°19	22° 0	12°11	13°28	S 19
S 20	23 56 28	27°12'24	16°32	5°44	16°13	29°33	11°36	18°51	17°44	16°48	29°25	23° 8	21°57	12°17	13°26	S 20
M21	0 0 25	28°11'17	29°51	7°25	17°27	0♍11	11°49	18°51	17°47	16°50	29°25	22°58	21°54	12°24	13°24	M21
T 22	0 4 21	29°10'11	12♏48	9° 5	18°41	0°49	12° 2	18°50	17°51	16°51	29°24	22°48	21°50	12°31	13°22	T 22
W23	0 8 18	0♎ 9'07	25°24	10°43	19°55	1°27	12°15	18°D50	17°55	16°53	29°24	22°41	21°47	12°37	13°20	W23
T 24	0 12 14	1° 8'05	7♐42	12°21	21°10	2° 4	12°28	18°50	17°58	16°55	29°23	22°36	21°44	12°44	13°18	T 24
F 25	0 16 11	2° 7'05	19°44	13°58	22°24	2°42	12°41	18°51	18° 2	16°57	29°23	22°33	21°41	12°51	13°16	F 25
S 26	0 20 8	3° 6'07	1♑37	15°34	23°38	3°19	12°54	18°51	18° 6	16°58	29°22	22°D33	21°38	12°57	13°14	S 26
S 27	0 24 4	4° 5'10	13°26	17°10	24°52	3°57	13° 7	18°51	18° 9	17° 0	29°22	22°33	21°34	13° 4	13°12	S 27
M28	0 28 1	5° 4'15	25°15	18°44	26° 6	4°35	13°19	18°52	18°13	17° 2	29°21	22°R33	21°31	13°11	13°10	M28
T 29	0 31 57	6° 3'22	7♒11	20°18	27°21	5°12	13°32	18°52	18°17	17° 4	29°20	22°32	21°28	13°17	13° 7	T 29
W30	0 35 54	7♎ 2'31	19♒18	21♎51	28♎35	5♍50	13♎45	18♉53	18♎20	17♏ 5	29♉20	22♉29	21♉25	13♉24	13♉ 5	W30

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
T 1	8n20	19s58	0n24	12n49	1n46	4n 5	1n17	16n43	1n10	2s 0	1n 8	22s15	0s 9	6s 1	0n36	15s 5	1n45	7n34	12s48	21s14	21s32	24s14	14n22	1s45
W 2	7 58	16 1	1 28	12 8	1 47	3 35	1 16	16 32	1 11	2 5	1 8	22 15	0 9	6 2	0 36	15 6	1 45	7 34	12 48	21 14	21 32	24 13	14 22	1 45
T 3	7 36	11 23	2 29	11 26	1 48	3 4	1 15	16 20	1 11	2 10	1 8	22 16	0 9	6 3	0 36	15 6	1 45	7 34	12 48	21 15	21 33	24 11	14 21	1 45
F 4	7 14	6 12	3 24	10 43	1 48	2 34	1 14	16 8	1 11	2 15	1 8	22 16	0 9	6 4	0 36	15 6	1 45	7 33	12 49	21 16	21 33	24 10	14 21	1 45
S 5	6 52	0 41	4 10	9 59	1 47	2 3	1 13	15 56	1 11	2 20	1 8	22 16	0 9	6 6	0 36	15 7	1 45	7 33	12 49	21 17	21 34	24 8	14 20	1 45
S 6	6 29	4n57	4 43	9 15	1 45	1 32	1 11	15 44	1 11	2 25	1 8	22 17	0 9	6 7	0 36	15 7	1 45	7 33	12 49	21 19	21 34	24 7	14 20	1 46
M 7	6 7	10 27	5 3	8 29	1 43	1 1	1 10	15 32	1 12	2 29	1 8	22 17	0 9	6 8	0 36	15 8	1 45	7 33	12 49	21 20	21 35	24 6	14 19	1 46
T 8	5 44	15 34	5 6	7 43	1 40	0 30	1 9	15 20	1 12	2 34	1 8	22 17	0 9	6 9	0 36	15 8	1 45	7 32	12 50	21 22	21 36	24 4	14 19	1 46
W 9	5 21	19 59	4 52	6 57	1 37	0s 1	1 7	15 8	1 12	2 39	1 8	22 17	0 9	6 11	0 36	15 8	1 45	7 32	12 50	21 23	21 36	24 3	14 18	1 46
T 10	4 59	23 23	4 21	6 10	1 34	0 32	1 5	14 56	1 12	2 44	1 7	22 18	0 9	6 12	0 36	15 9	1 45	7 32	12 50	21 23	21 37	24 1	14 18	1 46
F 11	4 36	25 26	3 35	5 23	1 30	1 3	1 4	14 43	1 12	2 49	1 7	22 18	0 9	6 13	0 36	15 9	1 45	7 31	12 50	21 24	21 37	24 0	14 17	1 47
S 12	4 13	25 55	2 36	4 36	1 26	1 34	1 2	14 31	1 13	2 54	1 7	22 18	0 9	6 15	0 35	15 10	1 45	7 31	12 50	21 24	21 38	23 58	14 16	1 47
S 13	3 50	24 42	1 26	3 48	1 21	2 5	1 0	14 18	1 13	2 59	1 7	22 18	0 10	6 16	0 35	15 10	1 45	7 31	12 51	21 24	21 38	23 57	14 16	1 47
M14	3 27	21 54	0 11	3 1	1 16	2 36	0 59	14 6	1 13	3 4	1 7	22 19	0 10	6 17	0 35	15 11	1 44	7 31	12 51	21 24	21 39	23 56	14 15	1 47
T 15	3 3	17 44	1s 6	2 14	1 11	3 7	0 57	13 53	1 13	3 9	1 7	22 19	0 10	6 19	0 35	15 11	1 44	7 30	12 51	21 24	21 39	23 54	14 15	1 47
W16	2 40	12 31	2 18	1 27	1 5	3 37	0 55	13 40	1 13	3 14	1 7	22 19	0 10	6 20	0 35	15 12	1 44	7 30	12 51	21 24	21 40	23 53	14 14	1 47
T 17	2 17	6 40	3 21	0 40	0 59	4 8	0 53	13 27	1 14	3 19	1 7	22 19	0 10	6 22	0 35	15 12	1 44	7 30	12 52	21 25	21 40	23 51	14 13	1 48
F 18	1 54	0 33	4 11	0s 7	0 53	4 39	0 51	13 15	1 14	3 24	1 7	22 19	0 10	6 23	0 35	15 13	1 44	7 30	12 52	21 26	21 41	23 50	14 12	1 48
S 19	1 30	5s30	4 45	0 54	0 47	5 10	0 49	13 2	1 14	3 29	1 7	22 19	0 10	6 24	0 35	15 13	1 44	7 29	12 52	21 28	21 41	23 48	14 12	1 48
S 20	1 7	11 9	5 1	1 40	0 41	5 40	0 47	12 48	1 14	3 34	1 7	22 19	0 10	6 26	0 35	15 14	1 44	7 29	12 52	21 30	21 42	23 47	14 11	1 48
M21	0 43	16 8	5 1	2 26	0 34	6 11	0 45	12 35	1 14	3 40	1 7	22 20	0 10	6 27	0 35	15 14	1 44	7 29	12 52	21 32	21 42	23 45	14 10	1 48
T 22	0 20	20 14	4 45	3 11	0 28	6 41	0 42	12 22	1 15	3 45	1 7	22 20	0 10	6 28	0 35	15 15	1 44	7 28	12 53	21 33	21 43	23 44	14 10	1 49
W23	0s 4	23 17	4 16	3 56	0 21	7 11	0 40	12 9	1 15	3 50	1 7	22 20	0 10	6 30	0 35	15 15	1 44	7 28	12 53	21 35	21 43	23 42	14 9	1 49
T 24	0 27	25 10	3 35	4 41	0 14	7 41	0 38	11 55	1 15	3 55	1 7	22 20	0 10	6 31	0 35	15 16	1 44	7 28	12 53	21 35	21 44	23 41	14 8	1 49
F 25	0 51	25 50	2 45	5 25	0 7	8 11	0 36	11 42	1 15	4 0	1 7	22 20	0 10	6 33	0 35	15 16	1 44	7 27	12 53	21 36	21 44	23 39	14 7	1 49
S 26	1 14	25 18	1 49	6 9	0s 0	8 41	0 33	11 29	1 15	4 5	1 7	22 20	0 10	6 34	0 35	15 17	1 44	7 27	12 53	21 36	21 45	23 38	14 6	1 49
S 27	1 38	23 37	0 48	6 52	0 7	9 10	0 31	11 15	1 15	4 10	1 7	22 20	0 10	6 35	0 35	15 17	1 44	7 27	12 54	21 36	21 45	23 36	14 6	1 49
M28	2 1	20 54	0n14	7 34	0 14	9 39	0 29	11 1	1 16	4 15	1 7	22 20	0 11	6 37	0 35	15 18	1 44	7 27	12 54	21 36	21 46	23 35	14 5	1 50
T 29	2 25	17 16	1 17	8 17	0 21	10 8	0 26	10 48	1 16	4 20	1 6	22 20	0 11	6 38	0 35	15 18	1 44	7 26	12 54	21 36	21 46	23 33	14 4	1 50
W30	2s48	12s54	2n17	8s58	0s28	10s37	0n24	10n34	1n16	4s25	1n 6	22s20	0s11	6s40	0n35	15s19	1n44	7n26	12s54	21s36	21s47	23s32	14n 3	1s50

Julian Day Number = 2319205.5, Delta T = 52.08 sec
Ecliptic obliquity = 23°29'15, Nutation = 0°00'17, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°40'59, Lahiri = 18°47'59Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

OCTOBER 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 39 50	8♎ 1'42	1♓40	23♎23	29♎49	6♍27	13♎58	18♑54	18♎24	17♏ 7	29°R19	22°R24	21♑22	13♑31	13°R 3	T 1
F 2	0 43 47	9° 0'54	14°20	24°54	1♏ 3	7° 5	14°11	18°55	18°28	17° 9	29♉18	22♑15	21°19	13°37	13♉ 0	F 2
S 3	0 47 43	10° 0'09	27°19	26°25	2°17	7°42	14°24	18°55	18°32	17°11	29°18	22° 5	21°15	13°44	12°58	S 3
S 4	0 51 40	10°59'25	10♈37	27°54	3°31	8°20	14°37	18°57	18°35	17°13	29°17	21°53	21°12	13°51	12°55	S 4
M 5	0 55 37	11°58'44	24°12	29°23	4°46	8°57	14°50	18°58	18°39	17°15	29°16	21°40	21° 9	13°57	12°53	M 5
T 6	0 59 33	12°58'04	8♉ 0	0♏51	6° 0	9°35	15° 3	18°59	18°43	17°17	29°16	21°28	21° 6	14° 4	12°50	T 6
W 7	1 3 30	13°57'27	21°59	2°18	7°14	10°12	15°16	19° 0	18°47	17°19	29°15	21°19	21° 3	14°10	12°47	W 7
T 8	1 7 26	14°56'52	6♊ 4	3°45	8°28	10°49	15°29	19° 2	18°50	17°21	29°14	21°12	20°59	14°17	12°45	T 8
F 9	1 11 23	15°56'20	20°11	5°11	9°42	11°27	15°42	19° 3	18°54	17°23	29°13	21° 8	20°56	14°24	12°42	F 9
S 10	1 15 19	16°55'50	4♋18	6°36	10°56	12° 4	15°55	19° 5	18°58	17°24	29°13	21° 6	20°53	14°30	12°39	S 10
S 11	1 19 16	17°55'22	18°25	7°59	12°10	12°42	16° 8	19° 7	19° 2	17°27	29°12	21° 6	20°50	14°37	12°37	S 11
M12	1 23 12	18°54'57	2♌29	9°23	13°24	13°19	16°21	19° 8	19° 6	17°29	29°11	21° 6	20°47	14°44	12°34	M12
T 13	1 27 9	19°54'34	16°31	10°45	14°38	13°56	16°35	19°10	19° 9	17°31	29°10	21° 4	20°44	14°50	12°31	T 13
W14	1 31 6	20°54'13	0♍29	12° 6	15°53	14°34	16°48	19°12	19°13	17°33	29° 9	21° 0	20°40	14°57	12°28	W14
T 15	1 35 2	21°53'54	14°21	13°26	17° 7	15°11	17° 1	19°15	19°17	17°35	29° 8	20°54	20°37	15° 4	12°25	T 15
F 16	1 38 59	22°53'38	28° 5	14°45	18°21	15°48	17°14	19°17	19°21	17°37	29° 8	20°44	20°34	15°10	12°22	F 16
S 17	1 42 55	23°53'23	11♎39	16° 2	19°35	16°25	17°27	19°19	19°24	17°39	29° 7	20°32	20°31	15°17	12°20	S 17
S 18	1 46 52	24°53'11	25° 0	17°19	20°49	17° 3	17°40	19°21	19°28	17°41	29° 6	20°19	20°28	15°24	12°17	S 18
M19	1 50 48	25°53'01	8♏ 4	18°34	22° 3	17°40	17°53	19°24	19°32	17°43	29° 5	20° 6	20°25	15°30	12°14	M19
T 20	1 54 45	26°52'53	20°51	19°48	23°17	18°17	18° 6	19°27	19°36	17°45	29° 4	19°54	20°21	15°37	12°11	T 20
W21	1 58 41	27°52'46	3♐21	20°59	24°31	18°54	18°18	19°29	19°39	17°47	29° 3	19°44	20°18	15°44	12° 8	W21
T 22	2 2 38	28°52'42	15°35	22°10	25°45	19°31	18°31	19°32	19°43	17°49	29° 2	19°37	20°15	15°50	12° 5	T 22
F 23	2 6 35	29°52'39	27°35	23°18	26°59	20° 9	18°44	19°35	19°47	17°52	29° 1	19°33	20°12	15°57	12° 2	F 23
S 24	2 10 31	0♏52'38	9♑27	24°23	28°13	20°46	18°57	19°38	19°51	17°54	29° 0	19°31	20° 9	16° 3	11°58	S 24
S 25	2 14 28	1°52'38	21°15	25°27	29°27	21°23	19°10	19°41	19°54	17°56	28°59	19°D30	20° 5	16°10	11°55	S 25
M26	2 18 24	2°52'41	3♒ 3	26°27	0♐41	22° 0	19°23	19°44	19°58	17°58	28°58	19°R31	20° 2	16°17	11°52	M26
T 27	2 22 21	3°52'44	14°58	27°25	1°55	22°37	19°36	19°47	20° 2	18° 0	28°57	19°30	19°59	16°23	11°49	T 27
W28	2 26 17	4°52'50	27° 6	28°19	3° 9	23°14	19°49	19°51	20° 6	18° 3	28°56	19°28	19°56	16°30	11°46	W28
T 29	2 30 14	5°52'57	9♓30	29°10	4°23	23°51	20° 1	19°54	20° 9	18° 5	28°55	19°23	19°53	16°37	11°43	T 29
F 30	2 34 10	6°53'05	22°15	29°56	5°37	24°28	20°14	19°57	20°13	18° 7	28°54	19°16	19°50	16°43	11°40	F 30
S 31	2 38 7	7♏53'15	5♈24	0♐37	6♐51	25♍ 5	20♎27	20♑ 1	20♎17	18♏ 9	28♉53	19♑ 7	19♑46	16♑50	11♉37	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	lat
T 1	3s11	7s55	3n12	9s39	0s36	11s 6	0n21	10n20	1n16	4s30	1n 6	22s20	0s11	6s41	0n35	15s19	1n44	7n26	12s54	21s37	21s47	23s30	14n 2	1s50
F 2	3 35	2 31	3 58	10 19	0 43	11 34	0 19	10 6	1 16	4 35	1 6	22 20	0 11	6 43	0 35	15 20	1 44	7 25	12 55	21 39	21 48	23 29	14 1	1 50
S 3	3 58	3n 7	4 33	10 59	0 50	12 2	0 16	9 53	1 16	4 40	1 6	22 20	0 11	6 44	0 35	15 20	1 44	7 25	12 55	21 40	21 48	23 27	14 0	1 50
S 4	4 21	8 44	4 55	11 38	0 57	12 30	0 14	9 39	1 16	4 45	1 6	22 20	0 11	6 45	0 35	15 21	1 44	7 25	12 55	21 42	21 49	23 25	13 59	1 51
M 5	4 45	14 3	5 0	12 16	1 4	12 58	0 11	9 25	1 17	4 50	1 6	22 19	0 11	6 47	0 35	15 22	1 44	7 24	12 55	21 44	21 49	23 24	13 59	1 51
T 6	5 8	18 45	4 48	12 54	1 11	13 25	0 8	9 11	1 17	4 55	1 6	22 19	0 11	6 48	0 35	15 22	1 44	7 24	12 55	21 46	21 50	23 22	13 58	1 51
W 7	5 31	22 28	4 19	13 31	1 18	13 52	0 6	8 57	1 17	5 0	1 6	22 19	0 11	6 50	0 35	15 23	1 44	7 24	12 55	21 48	21 50	23 21	13 57	1 51
T 8	5 54	24 52	3 34	14 7	1 24	14 18	0 3	8 43	1 17	5 5	1 6	22 19	0 11	6 51	0 35	15 23	1 44	7 23	12 56	21 49	21 51	23 19	13 56	1 51
F 9	6 17	25 43	2 36	14 42	1 31	14 45	0 0	8 28	1 17	5 10	1 6	22 19	0 11	6 53	0 35	15 24	1 43	7 23	12 56	21 49	21 51	23 18	13 55	1 51
S 10	6 40	24 53	1 28	15 17	1 38	15 11	0s 2	8 14	1 17	5 15	1 6	22 19	0 11	6 54	0 35	15 24	1 43	7 23	12 56	21 50	21 52	23 16	13 54	1 52
S 11	7 3	22 27	0 14	15 50	1 44	15 36	0 5	8 0	1 17	5 21	1 6	22 19	0 11	6 56	0 35	15 25	1 43	7 23	12 56	21 50	21 52	23 14	13 53	1 52
M12	7 25	18 40	1s 0	16 23	1 50	16 1	0 8	7 46	1 18	5 26	1 6	22 18	0 11	6 57	0 35	15 26	1 43	7 22	12 56	21 50	21 53	23 13	13 52	1 52
T 13	7 48	13 51	2 10	16 55	1 56	16 26	0 11	7 32	1 18	5 31	1 6	22 18	0 11	6 58	0 35	15 26	1 43	7 22	12 56	21 50	21 53	23 11	13 51	1 52
W14	8 11	8 20	3 12	17 26	2 2	16 50	0 13	7 17	1 18	5 36	1 6	22 18	0 12	7 0	0 35	15 27	1 43	7 22	12 56	21 51	21 54	23 10	13 50	1 52
T 15	8 33	2 27	4 2	17 56	2 8	17 14	0 16	7 3	1 18	5 41	1 6	22 18	0 12	7 1	0 35	15 27	1 43	7 21	12 57	21 52	21 54	23 8	13 49	1 52
F 16	8 55	3s29	4 37	18 25	2 14	17 38	0 19	6 49	1 18	5 45	1 6	22 17	0 12	7 3	0 35	15 28	1 43	7 21	12 57	21 53	21 55	23 6	13 48	1 52
S 17	9 17	9 10	4 57	18 53	2 19	18 1	0 22	6 34	1 18	5 50	1 6	22 17	0 12	7 4	0 35	15 29	1 43	7 21	12 57	21 55	21 55	23 5	13 47	1 53
S 18	9 39	14 20	4 59	19 20	2 24	18 23	0 24	6 20	1 18	5 55	1 6	22 17	0 12	7 6	0 35	15 29	1 43	7 20	12 57	21 57	21 56	23 3	13 46	1 53
M19	10 1	18 44	4 46	19 46	2 29	18 45	0 27	6 5	1 18	6 0	1 6	22 17	0 12	7 7	0 35	15 30	1 43	7 20	12 57	21 59	21 56	23 1	13 45	1 53
T 20	10 23	22 9	4 18	20 10	2 33	19 7	0 30	5 51	1 19	6 5	1 6	22 16	0 12	7 8	0 35	15 30	1 43	7 20	12 57	22 1	21 56	23 0	13 44	1 53
W21	10 44	24 26	3 39	20 34	2 37	19 28	0 33	5 36	1 19	6 10	1 6	22 16	0 12	7 10	0 35	15 31	1 43	7 19	12 57	22 2	21 57	22 58	13 43	1 53
T 22	11 6	25 31	2 49	20 56	2 41	19 49	0 35	5 22	1 19	6 15	1 6	22 16	0 12	7 11	0 35	15 32	1 43	7 19	12 57	22 3	21 57	22 56	13 42	1 53
F 23	11 27	25 21	1 54	21 17	2 44	20 9	0 38	5 7	1 19	6 20	1 6	22 15	0 12	7 13	0 35	15 32	1 43	7 19	12 58	22 4	21 58	22 55	13 41	1 53
S 24	11 48	24 2	0 53	21 36	2 47	20 28	0 41	4 53	1 19	6 25	1 6	22 15	0 12	7 14	0 35	15 33	1 43	7 19	12 58	22 4	21 58	22 53	13 40	1 53
S 25	12 9	21 39	0n 9	21 54	2 49	20 47	0 44	4 38	1 19	6 30	1 6	22 14	0 12	7 15	0 35	15 34	1 43	7 18	12 58	22 4	21 59	22 51	13 38	1 54
M26	12 30	18 21	1 11	22 10	2 51	21 5	0 46	4 24	1 19	6 35	1 6	22 14	0 12	7 17	0 35	15 34	1 43	7 18	12 58	22 4	21 59	22 50	13 37	1 54
T 27	12 50	14 17	2 11	22 25	2 52	21 23	0 49	4 9	1 19	6 39	1 6	22 14	0 12	7 18	0 35	15 35	1 43	7 18	12 58	22 4	22 0	22 48	13 36	1 54
W28	13 10	9 36	3 6	22 38	2 53	21 40	0 52	3 54	1 19	6 44	1 6	22 13	0 12	7 20	0 35	15 35	1 43	7 17	12 58	22 4	22 0	22 46	13 35	1 54
T 29	13 31	4 26	3 53	22 49	2 52	21 57	0 54	3 40	1 19	6 49	1 6	22 13	0 12	7 21	0 35	15 36	1 43	7 17	12 58	22 5	22 1	22 45	13 34	1 54
F 30	13 50	1n 3	4 30	22 58	2 51	22 13	0 57	3 25	1 20	6 54	1 7	22 12	0 12	7 22	0 35	15 37	1 43	7 17	12 58	22 6	22 1	22 43	13 33	1 54
S 31	14s10	6n39	4n54	23s 5	2s49	22s29	1s 0	3n11	1n20	6s59	1n 7	22s12	0s13	7s24	0n35	15s37	1n43	7n17	12s58	22s 7	22s 2	22s41	13n32	1s54

Julian Day Number = 2319235.5, Delta T = 52.02 sec
Ecliptic obliquity = 23°29'15, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°41'03, Lahiri = 18°48'04Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

NOVEMBER 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 42 3	8♏53'27	18♈57	1♐14	8♐ 5	25♍42	20♎40	20♑ 5	20♎20	18♏11	28°R52	18°R56	19♑43	16♑57	11°R34	S 1
M 2	2 46 0	9°53'41	2♉53	1°44	9°18	26°19	20°52	20° 8	20°24	18°14	28♉51	18♑44	19°40	17° 3	11♉30	M 2
T 3	2 49 57	10°53'56	17° 6	2° 8	10°32	26°56	21° 5	20°12	20°27	18°16	28°50	18°33	19°37	17°10	11°27	T 3
W 4	2 53 53	11°54'13	1♊32	2°25	11°46	27°33	21°18	20°16	20°31	18°18	28°49	18°24	19°34	17°17	11°24	W 4
T 5	2 57 50	12°54'32	16° 3	2°33	13° 0	28°10	21°30	20°20	20°35	18°20	28°48	18°18	19°31	17°23	11°21	T 5
F 6	3 1 46	13°54'53	0♋34	2°R34	14°14	28°46	21°43	20°24	20°38	18°23	28°47	18°14	19°27	17°30	11°18	F 6
S 7	3 5 43	14°55'16	15° 0	2°25	15°28	29°23	21°55	20°28	20°42	18°25	28°45	18°D13	19°24	17°36	11°15	S 7
S 8	3 9 39	15°55'41	29°17	2° 6	16°41	0♎ 0	22° 8	20°33	20°45	18°27	28°44	18°13	19°21	17°43	11°11	S 8
M 9	3 13 36	16°56'08	13♌24	1°37	17°55	0°37	22°20	20°37	20°49	18°29	28°43	18°R14	19°18	17°50	11° 8	M 9
T 10	3 17 33	17°56'36	27°19	0°58	19° 9	1°14	22°33	20°41	20°52	18°32	28°42	18°14	19°15	17°56	11° 5	T 10
W11	3 21 29	18°57'07	11♍ 2	0° 9	20°23	1°50	22°45	20°46	20°56	18°34	28°41	18°11	19°11	18° 3	11° 2	W11
T 12	3 25 26	19°57'39	24°35	29♏10	21°36	2°27	22°57	20°50	20°59	18°36	28°40	18° 7	19° 8	18°10	10°59	T 12
F 13	3 29 22	20°58'13	7♎56	28° 3	22°50	3° 4	23°10	20°55	21° 2	18°38	28°39	18° 0	19° 5	18°16	10°56	F 13
S 14	3 33 19	21°58'49	21° 5	26°48	24° 4	3°40	23°22	20°59	21° 6	18°41	28°38	17°50	19° 2	18°23	10°53	S 14
S 15	3 37 15	22°59'26	4♏ 2	25°29	25°17	4°17	23°34	21° 4	21° 9	18°43	28°37	17°40	18°59	18°30	10°50	S 15
M16	3 41 12	24° 0'06	16°46	24° 8	26°31	4°54	23°46	21° 9	21°13	18°45	28°35	17°30	18°56	18°36	10°47	M16
T 17	3 45 8	25° 0'46	29°17	22°47	27°45	5°30	23°58	21°14	21°16	18°47	28°34	17°20	18°52	18°43	10°44	T 17
W18	3 49 5	26° 1'28	11♐36	21°29	28°58	6° 7	24°10	21°19	21°19	18°50	28°33	17°13	18°49	18°50	10°41	W18
T 19	3 53 2	27° 2'12	23°42	20°16	0♑12	6°43	24°22	21°24	21°22	18°52	28°32	17° 7	18°46	18°56	10°38	T 19
F 20	3 56 58	28° 2'56	5♑39	19°11	1°26	7°20	24°34	21°29	21°26	18°54	28°31	17° 4	18°43	19° 3	10°35	F 20
S 21	4 0 55	29° 3'42	17°28	18°16	2°39	7°56	24°46	21°34	21°29	18°56	28°30	17°D 4	18°40	19° 9	10°32	S 21
S 22	4 4 51	0♐ 4'29	29°14	17°31	3°53	8°33	24°58	21°39	21°32	18°59	28°29	17° 4	18°37	19°16	10°29	S 22
M23	4 8 48	1° 5'17	11♒ 1	16°58	5° 6	9° 9	25°10	21°45	21°35	19° 1	28°27	17° 6	18°33	19°23	10°26	M23
T 24	4 12 44	2° 6'06	22°55	16°36	6°20	9°46	25°21	21°50	21°38	19° 3	28°26	17° 7	18°30	19°29	10°23	T 24
W25	4 16 41	3° 6'56	5♓ 0	16°D26	7°33	10°22	25°33	21°56	21°41	19° 5	28°25	17°R 7	18°27	19°36	10°20	W25
T 26	4 20 37	4° 7'47	17°21	16°26	8°46	10°58	25°45	22° 1	21°44	19° 7	28°24	17° 6	18°24	19°43	10°17	T 26
F 27	4 24 34	5° 8'38	0♈ 4	16°37	10° 0	11°35	25°56	22° 7	21°47	19°10	28°23	17° 3	18°21	19°49	10°14	F 27
S 28	4 28 31	6° 9'31	13°13	16°57	11°13	12°11	26° 8	22°12	21°50	19°12	28°22	16°59	18°17	19°56	10°12	S 28
S 29	4 32 27	7°10'24	26°48	17°26	12°26	12°47	26°19	22°18	21°53	19°14	28°21	16°53	18°14	20° 3	10° 9	S 29
M30	4 36 24	8♐11'18	10♑50	18♏ 3	13♑40	13♎23	26♎30	22♑24	21♎56	19♏16	28♑20	16♑46	18♑11	20♑ 9	10♑ 6	M30

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	
S 1	14s29	12n 6	5n 2	23s10	2s47	22s43	1s 2	2n56	1n20	7s 3	1n 7	22s11	0s13	7s25	0n35	15s38	1n43	7n16	12s58	22s 9	22s 2	22s40	13n31	1s54	S 1
M 2	14 49	17 5	4 53	23 12	2 43	22 57	1 5	2 41	1 20	7 8	1 7	22 11	0 13	7 27	0 35	15 39	1 43	7 16	12 58	22 10	22 3	22 38	13 30	1 54	M 2
T 3	15 8	21 13	4 26	23 12	2 38	23 11	1 7	2 27	1 20	7 13	1 7	22 10	0 13	7 28	0 35	15 39	1 43	7 16	12 58	22 12	22 3	22 36	13 29	1 55	T 3
W 4	15 26	24 7	3 42	23 10	2 32	23 24	1 10	2 12	1 20	7 17	1 7	22 10	0 13	7 29	0 35	15 40	1 43	7 15	12 58	22 13	22 3	22 34	13 28	1 55	W 4
T 5	15 45	25 27	2 43	23 4	2 24	23 36	1 12	1 57	1 20	7 22	1 7	22 9	0 13	7 31	0 35	15 40	1 43	7 15	12 58	22 14	22 4	22 33	13 27	1 55	T 5
F 6	16 3	25 2	1 33	22 55	2 15	23 47	1 15	1 43	1 20	7 27	1 7	22 9	0 13	7 32	0 35	15 41	1 43	7 15	12 59	22 15	22 4	22 31	13 26	1 55	F 6
S 7	16 21	22 56	0 17	22 43	2 5	23 58	1 17	1 28	1 20	7 31	1 7	22 8	0 13	7 33	0 35	15 42	1 43	7 15	12 59	22 15	22 5	22 29	13 25	1 55	S 7
S 8	16 38	19 23	0s59	22 28	1 52	24 8	1 19	1 14	1 20	7 36	1 7	22 8	0 13	7 35	0 35	15 42	1 43	7 14	12 59	22 15	22 5	22 27	13 24	1 55	S 8
M 9	16 56	14 45	2 10	22 8	1 39	24 18	1 22	0 59	1 20	7 41	1 7	22 7	0 13	7 36	0 35	15 43	1 43	7 14	12 59	22 15	22 6	22 26	13 23	1 55	M 9
T 10	17 13	9 24	3 13	21 45	1 23	24 26	1 24	0 44	1 20	7 45	1 7	22 6	0 13	7 37	0 35	15 44	1 43	7 14	12 59	22 15	22 6	22 24	13 22	1 55	T 10
W11	17 29	3 41	4 4	21 18	1 6	24 34	1 26	0 30	1 20	7 50	1 7	22 6	0 13	7 38	0 35	15 44	1 43	7 14	12 59	22 15	22 7	22 22	13 21	1 55	W11
T 12	17 46	2s 8	4 40	20 48	0 48	24 41	1 28	0 15	1 20	7 54	1 7	22 5	0 13	7 40	0 35	15 45	1 43	7 13	12 59	22 16	22 7	22 20	13 19	1 55	T 12
F 13	18 2	7 45	5 1	20 14	0 29	24 48	1 30	0 1	1 21	7 59	1 7	22 5	0 13	7 41	0 35	15 45	1 43	7 13	12 59	22 17	22 8	22 19	13 18	1 55	F 13
S 14	18 18	12 57	5 5	19 37	0 9	24 54	1 32	0s14	1 21	8 3	1 7	22 4	0 13	7 42	0 35	15 46	1 43	7 13	12 59	22 18	22 8	22 17	13 17	1 55	S 14
S 15	18 33	17 29	4 53	18 59	0n12	24 59	1 34	0 28	1 21	8 8	1 7	22 3	0 13	7 44	0 35	15 47	1 43	7 13	12 59	22 19	22 8	22 15	13 16	1 56	S 15
M16	18 49	21 8	4 27	18 19	0 32	25 3	1 36	0 43	1 21	8 12	1 7	22 2	0 13	7 45	0 35	15 47	1 43	7 13	12 59	22 20	22 9	22 13	13 15	1 56	M16
T 17	19 3	23 45	3 48	17 40	0 52	25 6	1 38	0 57	1 21	8 16	1 7	22 2	0 13	7 46	0 35	15 48	1 43	7 12	12 59	22 22	22 9	22 11	13 14	1 56	T 17
W18	19 18	25 11	2 59	17 1	1 11	25 9	1 40	1 12	1 21	8 21	1 8	22 1	0 14	7 47	0 35	15 48	1 43	7 12	12 59	22 23	22 10	22 10	13 13	1 56	W18
T 19	19 32	25 23	2 3	16 25	1 29	25 11	1 42	1 26	1 21	8 25	1 8	22 0	0 14	7 48	0 35	15 49	1 43	7 12	12 59	22 23	22 10	22 8	13 12	1 56	T 19
F 20	19 46	24 23	1 1	15 53	1 45	25 12	1 44	1 41	1 21	8 29	1 8	22 0	0 14	7 50	0 35	15 50	1 43	7 12	12 59	22 24	22 11	22 6	13 11	1 56	F 20
S 21	19 59	22 18	0n 2	15 24	1 58	25 13	1 45	1 55	1 21	8 34	1 8	21 59	0 14	7 51	0 35	15 50	1 43	7 12	12 59	22 24	22 11	22 4	13 10	1 56	S 21
S 22	20 12	19 17	1 6	15 1	2 10	25 13	1 47	2 9	1 21	8 38	1 8	21 58	0 14	7 52	0 35	15 51	1 43	7 11	12 58	22 24	22 12	22 2	13 9	1 56	S 22
M23	20 25	15 28	2 6	14 43	2 19	25 12	1 48	2 24	1 21	8 42	1 8	21 57	0 14	7 53	0 35	15 51	1 43	7 11	12 58	22 23	22 12	22 1	13 9	1 56	M23
T 24	20 37	11 2	3 2	14 29	2 27	25 10	1 50	2 38	1 21	8 46	1 8	21 56	0 14	7 54	0 35	15 52	1 43	7 11	12 58	22 23	22 12	21 59	13 8	1 56	T 24
W25	20 49	6 7	3 51	14 21	2 32	25 7	1 51	2 52	1 21	8 50	1 8	21 56	0 14	7 55	0 35	15 53	1 43	7 11	12 58	22 23	22 13	21 57	13 7	1 56	W25
T 26	21 1	0 52	4 30	14 18	2 36	25 4	1 53	3 7	1 21	8 55	1 8	21 55	0 14	7 57	0 35	15 53	1 43	7 11	12 58	22 23	22 13	21 55	13 6	1 56	T 26
F 27	21 12	4n34	4 57	14 19	2 37	25 0	1 54	3 21	1 21	8 59	1 8	21 54	0 14	7 58	0 35	15 54	1 43	7 10	12 58	22 24	22 14	21 53	13 5	1 56	F 27
S 28	21 23	9 59	5 10	14 25	2 38	24 55	1 55	3 35	1 21	9 3	1 8	21 53	0 14	7 59	0 35	15 54	1 43	7 10	12 58	22 24	22 14	21 51	13 4	1 56	S 28
S 29	21 33	15 6	5 6	14 33	2 37	24 50	1 56	3 49	1 21	9 7	1 8	21 52	0 14	8 0	0 35	15 55	1 43	7 10	12 58	22 25	22 15	21 50	13 3	1 56	S 29
M30	21s43	19n36	4n44	14s46	2n35	24s44	1s57	4s 3	1n21	9s11	1n 9	21s51	0s14	8s 1	0n35	15s56	1n43	7n10	12s58	22s26	22s15	21s48	13n 2	1s56	M30

Julian Day Number = 2319266.5, Delta T = 51.96 sec
Ecliptic obliquity = 23°29'14, Nutation = 0°00'14, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°41'07, Lahiri = 18°48'08Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1637
geocentric

DECEMBER 1637 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 40 20	9♐12'13	25♉17	18♏46	14♑53	13♎59	26♎41	22♑29	21♎59	19♏18	28°R18	16°R40	18♑ 8	20♑16	10°R 4	T 1
W 2	4 44 17	10°13'09	10♊ 1	19°36	16° 6	14°36	26°53	22°35	22° 2	19°20	28♉17	16♑35	18° 5	20°23	10♉ 1	W 2
T 3	4 48 13	11°14'07	24°56	20°31	17°19	15°12	27° 4	22°41	22° 5	19°23	28°16	16°32	18° 2	20°29	9°58	T 3
F 4	4 52 10	12°15'05	9♋54	21°30	18°32	15°48	27°15	22°47	22° 8	19°25	28°15	16°D30	17°58	20°36	9°56	F 4
S 5	4 56 6	13°16'04	24°45	22°34	19°45	16°24	27°25	22°53	22°10	19°27	28°14	16°30	17°55	20°43	9°53	S 5
S 6	5 0 3	14°17'04	9♌24	23°41	20°58	17° 0	27°36	22°59	22°13	19°29	28°13	16°31	17°52	20°49	9°51	S 6
M 7	5 4 0	15°18'05	23°46	24°51	22°11	17°36	27°47	23° 5	22°16	19°31	28°12	16°33	17°49	20°56	9°48	M 7
T 8	5 7 56	16°19'08	7♍49	26° 4	23°24	18°12	27°58	23°11	22°18	19°33	28°11	16°34	17°46	21° 2	9°46	T 8
W 9	5 11 53	17°20'11	21°32	27°19	24°37	18°48	28° 8	23°17	22°21	19°35	28°10	16°R34	17°43	21° 9	9°44	W 9
T 10	5 15 49	18°21'15	4♎56	28°37	25°50	19°24	28°19	23°24	22°23	19°37	28° 9	16°33	17°39	21°16	9°41	T 10
F 11	5 19 46	19°22'20	18° 3	29°56	27° 3	19°59	28°29	23°30	22°26	19°39	28° 8	16°31	17°36	21°22	9°39	F 11
S 12	5 23 42	20°23'27	0♏54	1♐16	28°16	20°35	28°39	23°36	22°28	19°41	28° 7	16°27	17°33	21°29	9°37	S 12
S 13	5 27 39	21°24'34	13°31	2°38	29°28	21°11	28°50	23°42	22°31	19°43	28° 6	16°23	17°30	21°36	9°35	S 13
M14	5 31 35	22°25'41	25°56	4° 2	0♒41	21°47	29° 0	23°49	22°33	19°45	28° 5	16°19	17°27	21°42	9°33	M14
T 15	5 35 32	23°26'50	8♐11	5°26	1°54	22°22	29°10	23°55	22°35	19°47	28° 4	16°15	17°23	21°49	9°31	T 15
W16	5 39 29	24°27'59	20°16	6°51	3° 6	22°58	29°20	24° 2	22°38	19°49	28° 3	16°12	17°20	21°56	9°29	W16
T 17	5 43 25	25°29'09	2♑13	8°17	4°19	23°33	29°30	24° 8	22°40	19°51	28° 2	16°10	17°17	22° 2	9°27	T 17
F 18	5 47 22	26°30'19	14° 4	9°43	5°31	24° 9	29°39	24°15	22°42	19°53	28° 1	16°D 9	17°14	22° 9	9°25	F 18
S 19	5 51 18	27°31'29	25°52	11°11	6°43	24°45	29°49	24°21	22°44	19°55	28° 0	16° 9	17°11	22°16	9°23	S 19
S 20	5 55 15	28°32'39	7♒38	12°39	7°56	25°20	29°58	24°28	22°46	19°57	27°59	16°10	17° 8	22°22	9°21	S 20
M21	5 59 11	29°33'50	19°26	14° 7	9° 8	25°55	0♏ 8	24°35	22°48	19°59	27°58	16°12	17° 4	22°29	9°19	M21
T 22	6 3 8	0♑35'00	1♓20	15°36	10°20	26°31	0°17	24°41	22°50	20° 0	27°57	16°14	17° 1	22°36	9°18	T 22
W23	6 7 4	1°36'11	13°24	17° 5	11°32	27° 6	0°26	24°48	22°52	20° 2	27°56	16°15	16°58	22°42	9°16	W23
T 24	6 11 1	2°37'21	25°43	18°35	12°44	27°41	0°35	24°55	22°54	20° 4	27°55	16°15	16°55	22°49	9°14	T 24
F 25	6 14 58	3°38'32	8♈20	20° 5	13°56	28°16	0°44	25° 2	22°56	20° 6	27°54	16°R16	16°52	22°55	9°13	F 25
S 26	6 18 54	4°39'42	21°21	21°36	15° 8	28°52	0°53	25° 9	22°58	20° 8	27°53	16°15	16°49	23° 2	9°11	S 26
S 27	6 22 51	5°40'52	4♉48	23° 7	16°20	29°27	1° 2	25°15	22°59	20° 9	27°52	16°14	16°45	23° 9	9°10	S 27
M28	6 26 47	6°42'02	18°43	24°38	17°31	0♏ 2	1°10	25°22	23° 1	20°11	27°51	16°13	16°42	23°15	9° 9	M28
T 29	6 30 44	7°43'11	3♊ 5	26°10	18°43	0°37	1°19	25°29	23° 3	20°13	27°51	16°12	16°39	23°22	9° 7	T 29
W30	6 34 40	8°44'21	17°51	27°42	19°54	1°12	1°27	25°36	23° 4	20°14	27°50	16°11	16°36	23°29	9° 6	W30
T 31	6 38 37	9♑45'30	2♋55	29♐15	21♒ 6	1♏46	1♏36	25♑43	23♎ 6	20♏16	27♉49	16♑10	16♑33	23♑35	9♉ 5	T 31

Day	☉	☽		☿		♀		♂		♃		♄		♅		♆		♇		☊	☊	⚸	⚷	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	21s52	23n 3	4n 3	15s 0	2n32	24s37	1s58	4s17	1n21	9s15	1n 9	21s51	0s14	8s 2	0n35	15s56	1n43	7n10	12s58	22s27	22s15	21s46	13n 1	1s56
W 2	22 2	25 4	3 6	15 17	2 28	24 29	1 59	4 31	1 21	9 19	1 9	21 50	0 14	8 3	0 35	15 57	1 43	7 10	12 58	22 27	22 16	21 44	13 0	1 56
T 3	22 10	25 18	1 55	15 36	2 23	24 21	2 0	4 45	1 21	9 22	1 9	21 49	0 14	8 4	0 35	15 57	1 43	7 10	12 58	22 28	22 16	21 42	13 0	1 56
F 4	22 18	23 43	0 36	15 57	2 18	24 11	2 0	4 59	1 21	9 26	1 9	21 48	0 14	8 5	0 35	15 58	1 43	7 9	12 58	22 28	22 17	21 40	12 59	1 56
S 5	22 26	20 29	0s45	16 19	2 13	24 2	2 1	5 13	1 21	9 30	1 9	21 47	0 15	8 6	0 35	15 58	1 43	7 9	12 58	22 28	22 17	21 38	12 58	1 56
S 6	22 34	15 58	2 2	16 41	2 6	23 51	2 2	5 27	1 21	9 34	1 9	21 46	0 15	8 7	0 36	15 59	1 43	7 9	12 57	22 28	22 17	21 37	12 57	1 56
M 7	22 40	10 38	3 10	17 5	2 0	23 40	2 2	5 40	1 21	9 38	1 9	21 45	0 15	8 8	0 36	15 59	1 43	7 9	12 57	22 28	22 18	21 35	12 56	1 57
T 8	22 47	4 52	4 5	17 29	1 53	23 28	2 2	5 54	1 21	9 41	1 9	21 44	0 15	8 9	0 36	16 0	1 43	7 9	12 57	22 27	22 18	21 33	12 56	1 57
W 9	22 53	1s 0	4 45	17 53	1 46	23 15	2 3	6 8	1 21	9 45	1 10	21 43	0 15	8 10	0 36	16 0	1 43	7 9	12 57	22 27	22 19	21 31	12 55	1 57
T 10	22 59	6 40	5 8	18 17	1 39	23 2	2 3	6 22	1 21	9 49	1 10	21 42	0 15	8 11	0 36	16 1	1 43	7 9	12 57	22 28	22 19	21 29	12 54	1 57
F 11	23 4	11 55	5 14	18 42	1 31	22 48	2 3	6 35	1 21	9 52	1 10	21 41	0 15	8 12	0 36	16 1	1 43	7 9	12 57	22 28	22 20	21 27	12 53	1 57
S 12	23 8	16 33	5 4	19 6	1 23	22 33	2 3	6 49	1 21	9 56	1 10	21 40	0 15	8 13	0 36	16 2	1 43	7 9	12 57	22 28	22 20	21 25	12 53	1 57
S 13	23 12	20 22	4 40	19 29	1 16	22 18	2 3	7 2	1 21	9 59	1 10	21 39	0 15	8 13	0 36	16 2	1 43	7 8	12 57	22 29	22 20	21 23	12 52	1 57
M14	23 16	23 12	4 2	19 53	1 8	22 2	2 3	7 15	1 21	10 3	1 10	21 38	0 15	8 14	0 36	16 3	1 43	7 8	12 56	22 29	22 21	21 21	12 51	1 57
T 15	23 19	24 55	3 14	20 16	1 0	21 46	2 2	7 29	1 21	10 6	1 10	21 37	0 15	8 15	0 36	16 3	1 43	7 8	12 56	22 30	22 21	21 19	12 51	1 57
W16	23 22	25 25	2 18	20 38	0 53	21 29	2 2	7 42	1 20	10 10	1 10	21 36	0 15	8 16	0 36	16 4	1 43	7 8	12 56	22 30	22 22	21 17	12 50	1 57
T 17	23 25	24 44	1 16	21 0	0 45	21 11	2 2	7 55	1 20	10 13	1 11	21 35	0 15	8 17	0 36	16 4	1 43	7 8	12 56	22 30	22 22	21 15	12 49	1 57
F 18	23 26	22 56	0 12	21 20	0 37	20 53	2 1	8 8	1 20	10 16	1 11	21 34	0 15	8 18	0 36	16 5	1 44	7 8	12 56	22 30	22 22	21 14	12 49	1 57
S 19	23 28	20 8	0n54	21 40	0 30	20 34	2 0	8 21	1 20	10 19	1 11	21 32	0 15	8 18	0 36	16 5	1 44	7 8	12 56	22 30	22 23	21 12	12 48	1 57
S 20	23 29	16 32	1 56	22 0	0 22	20 15	1 59	8 34	1 20	10 23	1 11	21 31	0 15	8 19	0 36	16 6	1 44	7 8	12 55	22 30	22 23	21 10	12 48	1 57
M21	23 29	12 16	2 54	22 18	0 14	19 55	1 59	8 47	1 20	10 26	1 11	21 30	0 16	8 20	0 36	16 6	1 44	7 8	12 55	22 30	22 24	21 8	12 47	1 57
T 22	23 29	7 31	3 45	22 35	0 7	19 34	1 58	9 0	1 20	10 29	1 11	21 29	0 16	8 21	0 36	16 7	1 44	7 8	12 55	22 30	22 24	21 6	12 47	1 57
W23	23 29	2 26	4 27	22 52	0s 0	19 13	1 57	9 13	1 20	10 32	1 11	21 28	0 16	8 21	0 36	16 7	1 44	7 8	12 55	22 30	22 24	21 4	12 46	1 57
T 24	23 28	2n50	4 57	23 7	0 7	18 52	1 55	9 26	1 20	10 35	1 12	21 27	0 16	8 22	0 36	16 8	1 44	7 8	12 55	22 30	22 25	21 2	12 46	1 57
F 25	23 26	8 8	5 14	23 21	0 15	18 30	1 54	9 38	1 20	10 38	1 12	21 26	0 16	8 23	0 36	16 8	1 44	7 8	12 55	22 30	22 25	21 0	12 45	1 57
S 26	23 24	13 13	5 16	23 35	0 22	18 8	1 53	9 51	1 20	10 41	1 12	21 24	0 16	8 23	0 36	16 9	1 44	7 8	12 54	22 30	22 26	20 58	12 45	1 57
S 27	23 22	17 52	5 1	23 47	0 28	17 45	1 51	10 4	1 19	10 44	1 12	21 23	0 16	8 24	0 36	16 9	1 44	7 8	12 54	22 30	22 26	20 56	12 44	1 57
M28	23 19	21 43	4 28	23 58	0 35	17 21	1 50	10 16	1 19	10 47	1 12	21 22	0 16	8 24	0 36	16 9	1 44	7 8	12 54	22 30	22 26	20 54	12 44	1 57
T 29	23 16	24 22	3 37	24 7	0 41	16 57	1 48	10 28	1 19	10 49	1 12	21 21	0 16	8 25	0 36	16 10	1 44	7 8	12 54	22 30	22 27	20 52	12 43	1 57
W30	23 12	25 26	2 31	24 16	0 48	16 33	1 46	10 41	1 19	10 52	1 13	21 20	0 16	8 26	0 36	16 10	1 44	7 8	12 53	22 30	22 27	20 50	12 43	1 56
T 31	23s 8	24n40	1n13	24s23	0s54	16s 9	1s44	10s53	1n19	10s55	1n13	21s18	0s16	8s26	0n36	16s11	1n44	7n 8	12s53	22s30	22s28	20s48	12n43	1s56

Julian Day Number = 2319296.5, Delta T = 51.90 sec
Ecliptic obliquity = 23°29'13, Nutation = 0°00'15, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°41'11, Lahiri = 18°48'12Greg. Calendar