Astrodienst Ephemeris Tables

for the year 1587

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 1587
geocentric

JANUARY 1587 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	6 40 0	10♑ 8'25	26♍19	19♑40	27♒ 9	28♍ 6	10°R19	25♈42	6♓ 8	28°R21	8♈ 7	12°R56	12♎55	18♈26	26°R 4	T 1
F 2	6 43 56	11° 9'35	10♎21	21°19	28° 6	28°26	10♋11	25°42	6°10	28♋19	8° 8	12♎56	12°52	18°33	26♈ 3	F 2
S 3	6 47 53	12°10'45	24°26	22°58	29° 3	28°45	10° 2	25°43	6°12	28°18	8° 8	12°56	12°49	18°40	26° 3	S 3
S 4	6 51 50	13°11'55	8♏34	24°37	29°59	29° 4	9°54	25°43	6°15	28°16	8° 8	12°54	12°46	18°46	26° 3	S 4
M 5	6 55 46	14°13'05	22°43	26°16	0♓54	29°22	9°46	25°44	6°17	28°14	8° 8	12°51	12°42	18°53	26° 3	M 5
T 6	6 59 43	15°14'16	6♐50	27°54	1°49	29°41	9°38	25°45	6°20	28°13	8° 9	12°44	12°39	18°59	26°D 3	T 6
W 7	7 3 39	16°15'26	20°54	29°33	2°43	29°58	9°30	25°46	6°22	28°11	8° 9	12°34	12°36	19° 6	26° 3	W 7
T 8	7 7 36	17°16'36	4♑48	1♒10	3°37	0♎15	9°22	25°47	6°25	28° 9	8° 9	12°22	12°33	19°13	26° 3	T 8
F 9	7 11 32	18°17'45	18°29	2°47	4°29	0°32	9°14	25°48	6°27	28° 8	8°10	12° 9	12°30	19°19	26° 3	F 9
S 10	7 15 29	19°18'54	1♒53	4°23	5°22	0°49	9° 6	25°50	6°30	28° 6	8°10	11°56	12°27	19°26	26° 3	S 10
S 11	7 19 25	20°20'03	14°58	5°58	6°13	1° 5	8°59	25°51	6°32	28° 4	8°11	11°44	12°23	19°33	26° 4	S 11
M12	7 23 22	21°21'11	27°43	7°31	7° 3	1°20	8°51	25°53	6°35	28° 3	8°11	11°35	12°20	19°39	26° 4	M12
T 13	7 27 19	22°22'18	10♓ 9	9° 2	7°53	1°35	8°43	25°54	6°38	28° 1	8°12	11°28	12°17	19°46	26° 4	T 13
W14	7 31 15	23°23'24	22°19	10°30	8°42	1°49	8°35	25°56	6°40	27°59	8°12	11°24	12°14	19°53	26° 5	W14
T 15	7 35 12	24°24'29	4♈16	11°56	9°30	2° 3	8°28	25°58	6°43	27°58	8°13	11°23	12°11	19°59	26° 5	T 15
F 16	7 39 8	25°25'33	16° 6	13°19	10°17	2°17	8°20	26° 0	6°46	27°56	8°13	11°D23	12° 7	20° 6	26° 6	F 16
S 17	7 43 5	26°26'36	27°53	14°37	11° 3	2°30	8°13	26° 2	6°49	27°54	8°14	11°R23	12° 4	20°13	26° 7	S 17
S 18	7 47 1	27°27'39	9♉44	15°51	11°48	2°42	8° 6	26° 4	6°51	27°53	8°14	11°22	12° 1	20°19	26° 7	S 18
M19	7 50 58	28°28'40	21°44	16°59	12°32	2°54	7°59	26° 7	6°54	27°51	8°15	11°19	11°58	20°26	26° 8	M19
T 20	7 54 54	29°29'40	3♊58	18° 1	13°15	3° 5	7°52	26° 9	6°57	27°49	8°16	11°14	11°55	20°33	26° 9	T 20
W21	7 58 51	0♒30'39	16°29	18°55	13°57	3°16	7°45	26°12	7° 0	27°47	8°16	11° 7	11°52	20°39	26°10	W21
T 22	8 2 48	1°31'37	29°22	19°42	14°37	3°26	7°38	26°14	7° 3	27°46	8°17	10°57	11°48	20°46	26°11	T 22
F 23	8 6 44	2°32'34	12♋36	20°20	15°17	3°36	7°31	26°17	7° 6	27°44	8°18	10°45	11°45	20°52	26°12	F 23
S 24	8 10 41	3°33'30	26°10	20°49	15°55	3°45	7°24	26°20	7° 9	27°42	8°18	10°34	11°42	20°59	26°13	S 24
S 25	8 14 37	4°34'25	10♌ 3	21° 7	16°31	3°53	7°18	26°23	7°12	27°41	8°19	10°23	11°39	21° 6	26°14	S 25
M26	8 18 34	5°35'19	24°10	21°R15	17° 7	4° 1	7°12	26°26	7°15	27°39	8°20	10°13	11°36	21°12	26°15	M26
T 27	8 22 30	6°36'11	8♍25	21°11	17°41	4° 8	7° 5	26°29	7°18	27°37	8°20	10° 7	11°32	21°19	26°17	T 27
W28	8 26 27	7°37'03	22°44	20°56	18°13	4°15	6°59	26°32	7°21	27°36	8°21	10° 3	11°29	21°26	26°18	W28
T 29	8 30 23	8°37'54	7♎ 2	20°31	18°44	4°21	6°53	26°35	7°24	27°34	8°22	10°D 2	11°26	21°32	26°19	T 29
F 30	8 34 20	9°38'44	21°17	19°54	19°13	4°26	6°48	26°39	7°27	27°32	8°23	10° 2	11°23	21°39	26°21	F 30
S 31	8 38 17	10♒39'33	5♏25	19♒ 8	19♓41	4♎31	6♋42	26♈42	7♓30	27♋31	8♈24	10°R 3	11♎20	21♈46	26♈22	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	23s 6	0n 8	1s27	24s 9	2s 8	13s14	0s48	3n12	2n39	23n12	0n 7	7n35	2s32	9s59	0s45	20n14	0s18	12s27	17s 5	5s 7	5s 7	6n47	9n43	0s24
F 2	23 1	4s19	0 14	23 53	2 7	12 49	0 42	3 5	2 41	23 13	0 7	7 35	2 32	9 58	0 45	20 14	0 18	12 27	17 5	5 7	5 6	6 49	9 42	0 24
S 3	22 56	8 33	1n 0	23 36	2 6	12 23	0 36	2 58	2 42	23 14	0 7	7 36	2 32	9 57	0 45	20 15	0 18	12 26	17 4	5 7	5 4	6 50	9 42	0 24
S 4	22 50	12 19	2 11	23 17	2 4	11 57	0 29	2 52	2 43	23 14	0 7	7 36	2 32	9 56	0 45	20 15	0 18	12 26	17 4	5 7	5 3	6 52	9 42	0 24
M 5	22 44	15 22	3 14	22 56	2 2	11 32	0 23	2 46	2 44	23 15	0 7	7 37	2 31	9 55	0 45	20 15	0 18	12 25	17 4	5 5	5 2	6 54	9 42	0 24
T 6	22 37	17 29	4 4	22 34	1 59	11 6	0 16	2 40	2 45	23 16	0 8	7 38	2 31	9 54	0 45	20 16	0 18	12 25	17 3	5 2	5 1	6 56	9 42	0 24
W 7	22 30	18 32	4 39	22 10	1 56	10 40	0 9	2 34	2 47	23 17	0 8	7 38	2 31	9 53	0 45	20 16	0 18	12 24	17 3	4 59	4 59	6 57	9 42	0 24
T 8	22 22	18 27	4 58	21 45	1 51	10 14	0 2	2 28	2 48	23 17	0 8	7 39	2 30	9 52	0 45	20 16	0 18	12 24	17 3	4 54	4 58	6 59	9 42	0 25
F 9	22 14	17 17	4 59	21 18	1 47	9 48	0n 6	2 22	2 49	23 18	0 8	7 40	2 30	9 51	0 45	20 17	0 18	12 23	17 2	4 49	4 57	7 1	9 42	0 25
S 10	22 6	15 11	4 43	20 50	1 41	9 22	0 13	2 17	2 51	23 19	0 8	7 40	2 30	9 50	0 45	20 17	0 18	12 23	17 2	4 44	4 56	7 2	9 42	0 25
S 11	21 57	12 22	4 12	20 21	1 35	8 55	0 21	2 12	2 52	23 19	0 8	7 41	2 29	9 49	0 45	20 17	0 18	12 22	17 1	4 39	4 54	7 4	9 42	0 25
M12	21 47	9 1	3 29	19 50	1 28	8 29	0 29	2 7	2 53	23 20	0 8	7 42	2 29	9 48	0 45	20 18	0 18	12 22	17 1	4 35	4 53	7 6	9 42	0 25
T 13	21 38	5 21	2 38	19 19	1 20	8 3	0 37	2 2	2 54	23 21	0 9	7 43	2 29	9 47	0 45	20 18	0 18	12 21	17 1	4 33	4 52	7 8	9 42	0 25
W14	21 28	1 32	1 39	18 47	1 11	7 37	0 45	1 58	2 56	23 21	0 9	7 44	2 29	9 46	0 45	20 19	0 18	12 21	17 0	4 31	4 51	7 9	9 42	0 25
T 15	21 17	2n17	0 38	18 13	1 1	7 11	0 54	1 53	2 57	23 22	0 9	7 45	2 28	9 45	0 45	20 19	0 18	12 20	17 0	4 31	4 49	7 11	9 43	0 25
F 16	21 6	5 58	0s25	17 40	0 50	6 46	1 3	1 49	2 58	23 23	0 9	7 46	2 28	9 44	0 45	20 19	0 18	12 20	17 0	4 31	4 48	7 13	9 43	0 25
S 17	20 55	9 24	1 27	17 6	0 39	6 20	1 12	1 45	3 0	23 23	0 9	7 47	2 28	9 43	0 45	20 20	0 18	12 19	16 59	4 31	4 47	7 14	9 43	0 25
S 18	20 43	12 28	2 25	16 33	0 26	5 54	1 21	1 41	3 1	23 24	0 9	7 48	2 27	9 42	0 45	20 20	0 18	12 19	16 59	4 30	4 46	7 16	9 43	0 25
M19	20 31	15 4	3 17	15 59	0 13	5 29	1 30	1 38	3 2	23 24	0 9	7 49	2 27	9 41	0 45	20 20	0 18	12 18	16 59	4 29	4 44	7 18	9 43	0 25
T 20	20 18	17 2	4 2	15 27	0n 1	5 4	1 40	1 35	3 4	23 25	0 9	7 50	2 27	9 40	0 44	20 21	0 18	12 18	16 58	4 27	4 43	7 19	9 44	0 25
W21	20 5	18 14	4 36	14 56	0 16	4 39	1 49	1 32	3 5	23 25	0 10	7 51	2 27	9 39	0 44	20 21	0 18	12 17	16 58	4 24	4 42	7 21	9 44	0 25
T 22	19 52	18 33	4 57	14 26	0 32	4 14	1 59	1 29	3 6	23 26	0 10	7 53	2 26	9 38	0 44	20 21	0 18	12 17	16 58	4 20	4 41	7 23	9 44	0 25
F 23	19 38	17 52	5 2	13 58	0 49	3 50	2 9	1 26	3 8	23 26	0 10	7 54	2 26	9 37	0 44	20 22	0 18	12 16	16 57	4 16	4 39	7 24	9 44	0 25
S 24	19 24	16 11	4 52	13 33	1 6	3 26	2 19	1 24	3 9	23 27	0 10	7 55	2 26	9 36	0 44	20 22	0 18	12 15	16 57	4 11	4 38	7 26	9 45	0 25
S 25	19 10	13 32	4 24	13 11	1 23	3 2	2 30	1 22	3 10	23 27	0 10	7 56	2 25	9 34	0 44	20 22	0 18	12 15	16 57	4 7	4 37	7 28	9 45	0 26
M26	18 55	10 3	3 39	12 52	1 41	2 38	2 40	1 20	3 12	23 28	0 10	7 58	2 25	9 33	0 44	20 23	0 18	12 14	16 56	4 3	4 36	7 30	9 45	0 26
T 27	18 40	5 57	2 40	12 36	1 58	2 15	2 51	1 18	3 13	23 28	0 10	7 59	2 25	9 32	0 44	20 23	0 18	12 14	16 56	4 1	4 34	7 31	9 46	0 26
W28	18 24	1 30	1 31	12 25	2 15	1 52	3 2	1 17	3 14	23 29	0 10	8 1	2 25	9 31	0 44	20 23	0 18	12 13	16 56	3 59	4 33	7 33	9 46	0 26
T 29	18 9	3s 3	0 16	12 17	2 32	1 30	3 13	1 15	3 15	23 29	0 11	8 2	2 24	9 30	0 44	20 24	0 18	12 13	16 55	3 59	4 32	7 35	9 47	0 26
F 30	17 52	7 24	1n 0	12 14	2 47	1 8	3 25	1 15	3 17	23 30	0 11	8 4	2 24	9 29	0 44	20 24	0 18	12 12	16 55	3 59	4 31	7 36	9 47	0 26
S 31	17s36	11s17	2n12	12s15	3n 1	0s47	3n36	1n14	3n18	23n30	0n11	8n 5	2s24	9s27	0s44	20n24	0s18	12s11	16s55	3s59	4s29	7n38	9n48	0s26

Julian Day Number = 2300699.5, Delta T = 108.13 sec
Ecliptic obliquity = 23°29'25, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°58'35, Lahiri = 18°05'36Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

FEBRUARY 1587 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	8 42 13	11♒40'21	19♏27	18°R14	20♓ 7	4♎35	6°R36	26♈46	7♓34	27°R29	8♈25	10°R 3	11♎17	21♈52	26♈24	S 1
M 2	8 46 10	12°41'08	3♐22	17♒13	20°31	4°38	6♋31	26°50	7°37	27♋27	8°25	10♎ 1	11°13	21°59	26°25	M 2
T 3	8 50 6	13°41'55	17° 8	16° 6	20°53	4°40	6°26	26°53	7°40	27°26	8°26	9°56	11°10	22° 6	26°27	T 3
W 4	8 54 3	14°42'40	0♑46	14°56	21°14	4°42	6°21	26°57	7°43	27°24	8°27	9°50	11° 7	22°12	26°29	W 4
T 5	8 57 59	15°43'24	14°13	13°45	21°32	4°43	6°16	27° 1	7°46	27°23	8°28	9°41	11° 4	22°19	26°30	T 5
F 6	9 1 56	16°44'07	27°29	12°35	21°49	4°R43	6°12	27° 5	7°50	27°21	8°29	9°31	11° 1	22°26	26°32	F 6
S 7	9 5 52	17°44'48	10♒30	11°27	22° 3	4°43	6° 7	27°10	7°53	27°20	8°30	9°21	10°58	22°32	26°34	S 7
S 8	9 9 49	18°45'28	23°18	10°23	22°15	4°42	6° 3	27°14	7°56	27°18	8°31	9°13	10°54	22°39	26°36	S 8
M 9	9 13 46	19°46'07	5♓50	9°24	22°25	4°40	5°59	27°18	8° 0	27°16	8°32	9° 6	10°51	22°45	26°38	M 9
T 10	9 17 42	20°46'44	18° 8	8°32	22°33	4°37	5°55	27°23	8° 3	27°15	8°33	9° 1	10°48	22°52	26°40	T 10
W11	9 21 39	21°47'19	0♈13	7°46	22°38	4°34	5°51	27°27	8° 6	27°13	8°34	8°59	10°45	22°59	26°42	W11
T 12	9 25 35	22°47'53	12° 8	7° 8	22°41	4°29	5°47	27°32	8°10	27°12	8°35	8°D58	10°42	23° 5	26°44	T 12
F 13	9 29 32	23°48'25	23°57	6°38	22°R42	4°24	5°44	27°37	8°13	27°10	8°36	8°59	10°38	23°12	26°46	F 13
S 14	9 33 28	24°48'55	5♉44	6°15	22°40	4°19	5°41	27°41	8°16	27° 9	8°37	9° 1	10°35	23°19	26°48	S 14
S 15	9 37 25	25°49'23	17°35	6° 0	22°35	4°12	5°38	27°46	8°20	27° 7	8°38	9° 2	10°32	23°25	26°51	S 15
M16	9 41 21	26°49'49	29°34	5°52	22°28	4° 5	5°35	27°51	8°23	27° 6	8°40	9°R 2	10°29	23°32	26°53	M16
T 17	9 45 18	27°50'14	11♊46	5°D51	22°19	3°56	5°32	27°56	8°26	27° 5	8°41	9° 1	10°26	23°39	26°55	T 17
W18	9 49 15	28°50'36	24°17	5°57	22° 7	3°48	5°30	28° 1	8°30	27° 3	8°42	8°58	10°23	23°45	26°58	W18
T 19	9 53 11	29°50'57	7♋10	6° 9	21°52	3°38	5°28	28° 6	8°33	27° 2	8°43	8°54	10°19	23°52	27° 0	T 19
F 20	9 57 8	0♓51'15	20°28	6°27	21°35	3°27	5°26	28°12	8°37	27° 0	8°44	8°48	10°16	23°59	27° 3	F 20
S 21	10 1 4	1°51'32	4♌11	6°50	21°15	3°16	5°24	28°17	8°40	26°59	8°45	8°42	10°13	24° 5	27° 5	S 21
S 22	10 5 1	2°51'47	18°18	7°19	20°54	3° 4	5°22	28°22	8°44	26°58	8°47	8°36	10°10	24°12	27° 8	S 22
M23	10 8 57	3°51'59	2♍44	7°52	20°29	2°51	5°21	28°28	8°47	26°57	8°48	8°31	10° 7	24°19	27°11	M23
T 24	10 12 54	4°52'10	17°24	8°30	20° 3	2°38	5°20	28°33	8°50	26°55	8°49	8°28	10° 4	24°25	27°13	T 24
W25	10 16 50	5°52'20	2♎10	9°12	19°35	2°24	5°19	28°39	8°54	26°54	8°50	8°D26	10° 0	24°32	27°16	W25
T 26	10 20 47	6°52'27	16°55	9°57	19° 5	2° 9	5°18	28°45	8°57	26°53	8°51	8°26	9°57	24°38	27°19	T 26
F 27	10 24 43	7°52'33	1♏33	10°46	18°33	1°53	5°17	28°50	9° 1	26°52	8°53	8°28	9°54	24°45	27°22	F 27
S 28	10 28 40	8♓52'37	15♏58	11♒39	17♓59	1♎37	5♋17	28♈56	9♓ 4	26♋50	8♈54	8♎29	9♎51	24♈52	27♈25	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	17s19	14s30	3n15	12s20	3n13	0s26	3n48	1n14	3n19	23n30	0n11	8n 7	2s24	9s26	0s44	20n25	0s18	12s11	16s54	3s59	4s28	7n40	9n48	0s26
M 2	17 2	16 51	4 6	12 28	3 24	0 6	4 0	1 14	3 21	23 31	0 11	8 8	2 23	9 25	0 44	20 25	0 18	12 10	16 54	3 58	4 27	7 41	9 49	0 26
T 3	16 45	18 11	4 42	12 40	3 32	0n14	4 11	1 14	3 22	23 31	0 11	8 10	2 23	9 24	0 44	20 25	0 18	12 9	16 54	3 57	4 26	7 43	9 49	0 26
W 4	16 27	18 27	5 2	12 54	3 38	0 33	4 23	1 14	3 23	23 31	0 11	8 11	2 23	9 23	0 44	20 26	0 18	12 9	16 54	3 54	4 24	7 45	9 50	0 26
T 5	16 9	17 41	5 5	13 11	3 42	0 51	4 36	1 15	3 24	23 32	0 11	8 13	2 22	9 21	0 44	20 26	0 18	12 8	16 53	3 51	4 23	7 46	9 50	0 26
F 6	15 51	15 57	4 51	13 30	3 43	1 9	4 48	1 16	3 26	23 32	0 11	8 15	2 22	9 20	0 44	20 26	0 18	12 8	16 53	3 47	4 22	7 48	9 51	0 26
S 7	15 33	13 26	4 22	13 50	3 42	1 26	5 0	1 17	3 27	23 32	0 12	8 17	2 22	9 19	0 44	20 27	0 18	12 7	16 53	3 43	4 21	7 50	9 52	0 26
S 8	15 14	10 18	3 41	14 10	3 39	1 42	5 12	1 19	3 28	23 33	0 12	8 18	2 22	9 18	0 44	20 27	0 18	12 6	16 52	3 39	4 20	7 51	9 52	0 26
M 9	14 55	6 46	2 49	14 31	3 33	1 57	5 25	1 21	3 29	23 33	0 12	8 20	2 21	9 16	0 44	20 27	0 18	12 6	16 52	3 37	4 18	7 53	9 53	0 26
T 10	14 36	3 1	1 50	14 51	3 26	2 12	5 37	1 23	3 30	23 33	0 12	8 22	2 21	9 15	0 44	20 28	0 18	12 5	16 52	3 35	4 17	7 55	9 54	0 26
W11	14 16	0n48	0 47	15 11	3 18	2 25	5 49	1 25	3 32	23 34	0 12	8 24	2 21	9 14	0 44	20 28	0 18	12 4	16 52	3 34	4 16	7 56	9 54	0 27
T 12	13 57	4 33	0s17	15 30	3 8	2 38	6 2	1 28	3 33	23 34	0 12	8 26	2 21	9 13	0 44	20 28	0 18	12 4	16 51	3 34	4 15	7 58	9 55	0 27
F 13	13 37	8 4	1 20	15 48	2 57	2 49	6 14	1 31	3 34	23 34	0 12	8 28	2 20	9 11	0 44	20 29	0 18	12 3	16 51	3 34	4 13	8 0	9 56	0 27
S 14	13 17	11 16	2 20	16 5	2 46	2 59	6 26	1 34	3 35	23 34	0 12	8 30	2 20	9 10	0 44	20 29	0 18	12 2	16 51	3 35	4 12	8 1	9 56	0 27
S 15	12 56	14 0	3 14	16 20	2 34	3 8	6 38	1 38	3 36	23 35	0 12	8 31	2 20	9 9	0 44	20 29	0 18	12 2	16 51	3 35	4 11	8 3	9 57	0 27
M16	12 36	16 11	4 0	16 34	2 21	3 16	6 49	1 41	3 37	23 35	0 12	8 33	2 20	9 7	0 44	20 29	0 18	12 1	16 50	3 35	4 10	8 5	9 58	0 27
T 17	12 15	17 40	4 37	16 47	2 8	3 23	7 1	1 46	3 38	23 35	0 13	8 35	2 19	9 6	0 44	20 30	0 18	12 1	16 50	3 35	4 8	8 6	9 59	0 27
W18	11 54	18 21	5 1	16 58	1 55	3 29	7 12	1 50	3 39	23 35	0 13	8 37	2 19	9 5	0 44	20 30	0 18	12 0	16 50	3 34	4 7	8 8	10 0	0 27
T 19	11 33	18 7	5 11	17 7	1 42	3 33	7 23	1 55	3 39	23 35	0 13	8 40	2 19	9 4	0 44	20 30	0 18	11 59	16 50	3 32	4 6	8 9	10 0	0 27
F 20	11 12	16 54	5 5	17 16	1 29	3 36	7 33	1 59	3 40	23 36	0 13	8 42	2 19	9 2	0 44	20 31	0 18	11 59	16 49	3 30	4 5	8 11	10 1	0 27
S 21	10 50	14 42	4 41	17 22	1 17	3 37	7 43	2 5	3 41	23 36	0 13	8 44	2 19	9 1	0 44	20 31	0 18	11 58	16 49	3 27	4 3	8 13	10 2	0 27
S 22	10 29	11 34	4 0	17 27	1 4	3 37	7 52	2 10	3 42	23 36	0 13	8 46	2 18	9 0	0 44	20 31	0 18	11 57	16 49	3 25	4 2	8 14	10 3	0 27
M23	10 7	7 41	3 3	17 31	0 52	3 36	8 1	2 16	3 42	23 36	0 13	8 48	2 18	8 58	0 44	20 31	0 18	11 57	16 49	3 23	4 1	8 16	10 4	0 27
T 24	9 45	3 16	1 53	17 32	0 40	3 33	8 9	2 22	3 43	23 36	0 13	8 50	2 18	8 57	0 44	20 32	0 18	11 56	16 49	3 22	4 0	8 18	10 5	0 27
W25	9 23	1s23	0 34	17 33	0 28	3 29	8 17	2 28	3 43	23 36	0 13	8 52	2 18	8 56	0 44	20 32	0 18	11 55	16 48	3 21	3 58	8 19	10 6	0 27
T 26	9 0	5 57	0n46	17 32	0 16	3 24	8 24	2 34	3 44	23 36	0 13	8 55	2 17	8 55	0 44	20 32	0 18	11 55	16 48	3 21	3 57	8 21	10 7	0 27
F 27	8 38	10 6	2 3	17 29	0 5	3 17	8 30	2 41	3 44	23 37	0 13	8 57	2 17	8 53	0 44	20 32	0 18	11 54	16 48	3 22	3 56	8 23	10 8	0 28
S 28	8s16	13s36	3n12	17s25	0s 5	3n 9	8n35	2n47	3n45	23n37	0n14	8n59	2s17	8s52	0s44	20n33	0s18	11s53	16s48	3s22	3s55	8n24	10n 9	0s28

Julian Day Number = 2300730.5, Delta T = 107.99 sec
Ecliptic obliquity = 23°29'25, Nutation = 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°58'40, Lahiri = 18°05'40Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

MARCH 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	10 32 37	9♓52'40	0♐10	12♒35	17°R25	1°R20	5°R16	29♈ 2	9♓ 8	26°R49	8♈55	8♎30	9♎48	24♈58	27♈27	S 1
M 2	10 36 33	10°52'41	14° 4	13°33	16♓49	1♎ 2	5°D16	29° 8	9°11	26♋48	8°57	8°R31	9°44	25° 5	27°30	M 2
T 3	10 40 30	11°52'41	27°43	14°34	16°12	0°44	5♋16	29°14	9°15	26°47	8°58	8°30	9°41	25°12	27°33	T 3
W 4	10 44 26	12°52'39	11♑ 5	15°38	15°35	0°25	5°17	29°20	9°18	26°46	8°59	8°27	9°38	25°18	27°36	W 4
T 5	10 48 23	13°52'35	24°12	16°44	14°57	0° 6	5°17	29°26	9°21	26°45	9° 0	8°24	9°35	25°25	27°39	T 5
F 6	10 52 19	14°52'30	7♒ 5	17°52	14°20	29♍46	5°18	29°32	9°25	26°44	9° 2	8°21	9°32	25°32	27°43	F 6
S 7	10 56 16	15°52'22	19°45	19° 3	13°42	29°26	5°19	29°39	9°28	26°43	9° 3	8°17	9°29	25°38	27°46	S 7
S 8	11 0 12	16°52'13	2♓12	20°15	13° 5	29° 5	5°20	29°45	9°32	26°42	9° 4	8°13	9°25	25°45	27°49	S 8
M 9	11 4 9	17°52'02	14°28	21°30	12°28	28°43	5°21	29°51	9°35	26°41	9° 6	8°11	9°22	25°52	27°52	M 9
T 10	11 8 6	18°51'49	26°34	22°46	11°53	28°21	5°23	29°58	9°39	26°40	9° 7	8° 9	9°19	25°58	27°55	T 10
W11	11 12 2	19°51'34	8♈32	24° 4	11°18	27°59	5°24	0♉ 4	9°42	26°39	9° 9	8°D 9	9°16	26° 5	27°58	W11
T 12	11 15 59	20°51'17	20°23	25°23	10°45	27°37	5°26	0°11	9°45	26°38	9°10	8° 9	9°13	26°12	28° 2	T 12
F 13	11 19 55	21°50'57	2♉11	26°45	10°13	27°14	5°28	0°17	9°49	26°37	9°11	8°10	9° 9	26°18	28° 5	F 13
S 14	11 23 52	22°50'36	13°58	28° 7	9°43	26°51	5°31	0°24	9°52	26°37	9°13	8°12	9° 6	26°25	28° 8	S 14
S 15	11 27 48	23°50'12	25°49	29°32	9°15	26°28	5°33	0°31	9°55	26°36	9°14	8°13	9° 3	26°32	28°12	S 15
M16	11 31 45	24°49'46	7♊48	0♓58	8°49	26° 5	5°36	0°37	9°59	26°35	9°15	8°14	9° 0	26°38	28°15	M16
T 17	11 35 41	25°49'18	19°58	2°25	8°25	25°41	5°39	0°44	10° 2	26°34	9°17	8°15	8°57	26°45	28°19	T 17
W18	11 39 38	26°48'47	2♋26	3°54	8° 3	25°18	5°42	0°51	10° 6	26°34	9°18	8°R15	8°54	26°51	28°22	W18
T 19	11 43 35	27°48'14	15°14	5°24	7°43	24°55	5°45	0°58	10° 9	26°33	9°20	8°14	8°50	26°58	28°26	T 19
F 20	11 47 31	28°47'39	28°28	6°56	7°26	24°31	5°48	1° 5	10°12	26°33	9°21	8°14	8°47	27° 5	28°29	F 20
S 21	11 51 28	29°47'02	12♌ 7	8°29	7°11	24° 8	5°52	1°12	10°15	26°32	9°23	8°12	8°44	27°11	28°33	S 21
S 22	11 55 24	0♈46'22	26°14	10° 3	6°59	23°45	5°55	1°19	10°19	26°31	9°24	8°12	8°41	27°18	28°36	S 22
M23	11 59 21	1°45'40	10♍45	11°39	6°49	23°22	5°59	1°26	10°22	26°31	9°25	8°11	8°38	27°25	28°40	M23
T 24	12 3 17	2°44'55	25°36	13°16	6°42	22°59	6° 3	1°33	10°25	26°30	9°27	8°10	8°35	27°31	28°44	T 24
W25	12 7 14	3°44'09	10♎39	14°55	6°37	22°36	6° 8	1°40	10°28	26°30	9°28	8°D10	8°31	27°38	28°47	W25
T 26	12 11 10	4°43'20	25°46	16°35	6°34	22°14	6°12	1°47	10°32	26°29	9°30	8°10	8°28	27°45	28°51	T 26
F 27	12 15 7	5°42'30	10♏47	18°16	6°D34	21°52	6°17	1°54	10°35	26°29	9°31	8°11	8°25	27°51	28°55	F 27
S 28	12 19 3	6°41'38	25°35	19°59	6°36	21°31	6°21	2° 1	10°38	26°29	9°33	8°11	8°22	27°58	28°58	S 28
S 29	12 23 0	7°40'44	10♐ 4	21°43	6°41	21°10	6°26	2° 9	10°41	26°28	9°34	8°11	8°19	28° 5	29° 2	S 29
M30	12 26 57	8°39'48	24°10	23°29	6°48	20°49	6°31	2°16	10°44	26°28	9°35	8°R11	8°15	28°11	29° 6	M30
T 31	12 30 53	9♈38'50	7♑52	25♓16	6♓57	20♍29	6♋37	2♉23	10♓48	26♋28	9♈37	8°D11	8♎12	28♈18	29♈10	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	7s53	16s12	4n 7	17s19	0s16	2n59	8n39	2n54	3n45	23n37	0n14	9n 1	2s17	8s51	0s44	20n33	0s18	11s53	16s48	3s23	3s53	8n26	10n10	0s28
M 2	7 30	17 48	4 46	17 12	0 26	2 48	8 42	3 2	3 45	23 37	0 14	9 4	2 17	8 49	0 44	20 33	0 18	11 52	16 47	3 23	3 52	8 28	10 11	0 28
T 3	7 7	18 19	5 9	17 4	0 35	2 37	8 45	3 9	3 45	23 37	0 14	9 6	2 16	8 48	0 44	20 33	0 18	11 51	16 47	3 23	3 51	8 29	10 12	0 28
W 4	6 44	17 49	5 14	16 54	0 45	2 24	8 46	3 16	3 45	23 37	0 14	9 8	2 16	8 47	0 44	20 34	0 18	11 51	16 47	3 22	3 50	8 31	10 13	0 28
T 5	6 21	16 21	5 3	16 42	0 53	2 10	8 47	3 24	3 45	23 37	0 14	9 10	2 16	8 45	0 44	20 34	0 18	11 50	16 47	3 20	3 48	8 32	10 14	0 28
F 6	5 58	14 5	4 36	16 29	1 2	1 55	8 46	3 32	3 45	23 37	0 14	9 13	2 16	8 44	0 44	20 34	0 18	11 49	16 47	3 19	3 47	8 34	10 15	0 28
S 7	5 35	11 11	3 56	16 15	1 10	1 39	8 45	3 40	3 45	23 37	0 14	9 15	2 16	8 43	0 44	20 34	0 18	11 49	16 47	3 17	3 46	8 36	10 16	0 28
S 8	5 12	7 49	3 6	15 59	1 17	1 23	8 42	3 48	3 44	23 37	0 14	9 18	2 16	8 42	0 44	20 34	0 18	11 48	16 47	3 16	3 45	8 37	10 17	0 28
M 9	4 48	4 10	2 7	15 42	1 25	1 6	8 39	3 56	3 44	23 37	0 14	9 20	2 15	8 40	0 44	20 35	0 17	11 47	16 46	3 15	3 43	8 39	10 18	0 28
T 10	4 25	0 24	1 4	15 24	1 31	0 49	8 34	4 4	3 44	23 37	0 14	9 22	2 15	8 39	0 44	20 35	0 17	11 47	16 46	3 14	3 42	8 41	10 19	0 28
W11	4 1	3n21	0s 2	15 4	1 38	0 31	8 29	4 13	3 43	23 37	0 14	9 25	2 15	8 38	0 44	20 35	0 17	11 46	16 46	3 14	3 41	8 42	10 20	0 28
T 12	3 38	6 57	1 7	14 43	1 44	0 13	8 23	4 21	3 42	23 37	0 14	9 27	2 15	8 36	0 44	20 35	0 17	11 46	16 46	3 14	3 39	8 44	10 21	0 28
F 13	3 14	10 14	2 9	14 20	1 49	0s 5	8 16	4 29	3 41	23 37	0 15	9 30	2 15	8 35	0 44	20 35	0 17	11 45	16 46	3 15	3 38	8 45	10 22	0 28
S 14	2 51	13 7	3 6	13 56	1 54	0 23	8 9	4 38	3 41	23 37	0 15	9 32	2 15	8 34	0 44	20 36	0 17	11 44	16 46	3 15	3 37	8 47	10 24	0 28
S 15	2 27	15 27	3 55	13 31	1 59	0 42	8 0	4 46	3 40	23 37	0 15	9 35	2 14	8 33	0 44	20 36	0 17	11 44	16 46	3 16	3 36	8 49	10 25	0 29
M16	2 4	17 9	4 34	13 4	2 3	1 0	7 51	4 54	3 39	23 37	0 15	9 37	2 14	8 31	0 44	20 36	0 17	11 43	16 46	3 16	3 34	8 50	10 26	0 29
T 17	1 40	18 6	5 2	12 37	2 7	1 17	7 42	5 2	3 37	23 37	0 15	9 40	2 14	8 30	0 44	20 36	0 17	11 42	16 46	3 17	3 33	8 52	10 27	0 29
W18	1 16	18 12	5 16	12 7	2 10	1 35	7 32	5 11	3 36	23 37	0 15	9 42	2 14	8 29	0 44	20 36	0 17	11 42	16 45	3 17	3 32	8 53	10 28	0 29
T 19	0 53	17 24	5 15	11 37	2 13	1 52	7 21	5 19	3 35	23 37	0 15	9 45	2 14	8 28	0 44	20 36	0 17	11 41	16 45	3 16	3 31	8 55	10 29	0 29
F 20	0 29	15 39	4 58	11 5	2 16	2 8	7 10	5 27	3 34	23 37	0 15	9 47	2 14	8 26	0 44	20 36	0 17	11 41	16 45	3 16	3 29	8 57	10 31	0 29
S 21	0 5	12 58	4 24	10 32	2 18	2 24	6 59	5 35	3 32	23 37	0 15	9 50	2 13	8 25	0 44	20 37	0 17	11 40	16 45	3 16	3 28	8 58	10 32	0 29
S 22	0n18	9 28	3 33	9 58	2 19	2 39	6 47	5 42	3 30	23 37	0 15	9 52	2 13	8 24	0 44	20 37	0 17	11 39	16 45	3 15	3 27	9 0	10 33	0 29
M23	0 42	5 17	2 27	9 22	2 20	2 54	6 36	5 50	3 29	23 37	0 15	9 55	2 13	8 23	0 44	20 37	0 17	11 39	16 45	3 15	3 26	9 1	10 34	0 29
T 24	1 6	0 41	1 9	8 45	2 21	3 8	6 24	5 58	3 27	23 36	0 15	9 57	2 13	8 21	0 44	20 37	0 17	11 38	16 45	3 15	3 24	9 3	10 35	0 29
W25	1 29	4s 1	0n14	8 7	2 21	3 21	6 11	6 5	3 25	23 36	0 15	10 0	2 13	8 20	0 44	20 37	0 17	11 38	16 45	3 15	3 23	9 5	10 37	0 29
T 26	1 53	8 29	1 36	7 28	2 21	3 33	5 59	6 12	3 23	23 36	0 15	10 3	2 13	8 19	0 44	20 37	0 17	11 37	16 45	3 15	3 22	9 6	10 38	0 29
F 27	2 16	12 22	2 52	6 48	2 20	3 45	5 47	6 19	3 21	23 36	0 16	10 5	2 13	8 18	0 44	20 37	0 17	11 36	16 45	3 15	3 21	9 8	10 39	0 29
S 28	2 40	15 24	3 54	6 6	2 18	3 56	5 34	6 25	3 19	23 36	0 16	10 8	2 13	8 17	0 44	20 37	0 17	11 36	16 45	3 15	3 19	9 9	10 40	0 29
S 29	3 3	17 23	4 41	5 23	2 17	4 6	5 22	6 32	3 17	23 36	0 16	10 10	2 12	8 15	0 44	20 37	0 17	11 35	16 45	3 15	3 18	9 11	10 42	0 29
M30	3 27	18 13	5 9	4 39	2 14	4 15	5 9	6 38	3 15	23 35	0 16	10 13	2 12	8 14	0 44	20 38	0 17	11 35	16 45	3 15	3 17	9 13	10 43	0 30
T 31	3n50	17s58	5n18	3s54	2s12	4s23	4n57	6n44	3n13	23n35	0n16	10n15	2s12	8s13	0s44	20n38	0s17	11s34	16s45	3s15	3s16	9n14	10n44	0s30

Julian Day Number = 2300758.5, Delta T = 107.87 sec
Ecliptic obliquity = 23°29'26, Nutation = 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°58'43, Lahiri = 18°05'44Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

APRIL 1587 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	12 34 50	10♈37'51	21♉11	27♓ 4	7♓ 8	20°R 9	6♋42	2♉31	10♓51	26°R28	9♈38	8♎11	8♎ 9	28♈25	29♈13	W 1
T 2	12 38 46	11°36'50	4♒ 9	28°54	7°22	19♍50	6°47	2°38	10°54	26♋27	9°40	8°11	8° 6	28°31	29°17	T 2
F 3	12 42 43	12°35'47	16°49	0♈46	7°37	19°31	6°53	2°45	10°57	26°27	9°41	8°12	8° 3	28°38	29°21	F 3
S 4	12 46 39	13°34'43	29°13	2°39	7°55	19°13	6°59	2°53	11° 0	26°27	9°43	8°12	8° 0	28°45	29°25	S 4
S 5	12 50 36	14°33'36	11♓25	4°33	8°14	18°56	7° 5	3° 0	11° 3	26°27	9°44	8°13	7°56	28°51	29°29	S 5
M 6	12 54 32	15°32'28	23°27	6°29	8°36	18°39	7°11	3° 8	11° 6	26°27	9°46	8°13	7°53	28°58	29°32	M 6
T 7	12 58 29	16°31'17	5♈23	8°26	8°59	18°23	7°18	3°15	11° 9	26°D27	9°47	8°R14	7°50	29° 5	29°36	T 7
W 8	13 2 26	17°30'05	17°14	10°25	9°23	18° 8	7°24	3°23	11°12	26°27	9°48	8°13	7°47	29°11	29°40	W 8
T 9	13 6 22	18°28'51	29° 2	12°25	9°50	17°53	7°31	3°30	11°15	26°27	9°50	8°13	7°44	29°18	29°44	T 9
F 10	13 10 19	19°27'34	10♉50	14°26	10°18	17°39	7°37	3°38	11°18	26°27	9°51	8°12	7°40	29°25	29°48	F 10
S 11	13 14 15	20°26'16	22°39	16°29	10°47	17°26	7°44	3°45	11°20	26°27	9°53	8°10	7°37	29°31	29°52	S 11
S 12	13 18 12	21°24'56	4♊34	18°33	11°18	17°14	7°51	3°53	11°23	26°27	9°54	8° 8	7°34	29°38	29°56	S 12
M13	13 22 8	22°23'33	16°36	20°38	11°50	17° 2	7°59	4° 1	11°26	26°27	9°56	8° 6	7°31	29°44	29°59	M13
T 14	13 26 5	23°22'09	28°48	22°44	12°24	16°51	8° 6	4° 8	11°29	26°28	9°57	8° 4	7°28	29°51	0♉ 4	T 14
W15	13 30 1	24°20'42	11♋15	24°51	12°59	16°41	8°13	4°16	11°32	26°28	9°58	8° 3	7°25	29°58	0° 8	W15
T 16	13 33 58	25°19'13	24° 0	26°58	13°35	16°32	8°21	4°24	11°34	26°28	10° 0	8°D 3	7°21	0♉ 4	0°12	T 16
F 17	13 37 55	26°17'41	7♌ 6	29° 6	14°13	16°23	8°29	4°31	11°37	26°28	10° 1	8° 3	7°18	0°11	0°15	F 17
S 18	13 41 51	27°16'08	20°37	1♉15	14°52	16°16	8°37	4°39	11°40	26°29	10° 3	8° 4	7°15	0°18	0°19	S 18
S 19	13 45 48	28°14'32	4♍34	3°23	15°31	16° 9	8°45	4°47	11°42	26°29	10° 4	8° 5	7°12	0°24	0°23	S 19
M20	13 49 44	29°12'55	18°57	5°30	16°12	16° 3	8°53	4°54	11°45	26°30	10° 5	8° 6	7° 9	0°31	0°27	M20
T 21	13 53 41	0♉11'15	3♎43	7°38	16°54	15°57	9° 1	5° 2	11°47	26°30	10° 7	8°R 7	7° 6	0°38	0°31	T 21
W22	13 57 37	1° 9'33	18°47	9°44	17°37	15°53	9° 9	5°10	11°50	26°30	10° 8	8° 7	7° 2	0°44	0°35	W22
T 23	14 1 34	2° 7'49	4♏ 0	11°49	18°21	15°49	9°18	5°17	11°52	26°31	10° 9	8° 5	6°59	0°51	0°39	T 23
F 24	14 5 30	3° 6'04	19°14	13°52	19° 6	15°46	9°26	5°25	11°55	26°32	10°11	8° 3	6°56	0°58	0°43	F 24
S 25	14 9 27	4° 4'17	4♐17	15°54	19°51	15°44	9°35	5°33	11°57	26°32	10°12	8° 0	6°53	1° 4	0°47	S 25
S 26	14 13 23	5° 2'28	19° 2	17°53	20°38	15°43	9°44	5°40	12° 0	26°33	10°13	7°56	6°50	1°11	0°51	S 26
M27	14 17 20	6° 0'38	3♑22	19°50	21°25	15°D42	9°53	5°48	12° 2	26°33	10°15	7°53	6°46	1°18	0°55	M27
T 28	14 21 17	6°58'46	17°14	21°45	22°13	15°42	10° 2	5°56	12° 4	26°34	10°16	7°50	6°43	1°24	0°59	T 28
W29	14 25 13	7°56'53	0♒38	23°36	23° 2	15°43	10°11	6° 4	12° 7	26°35	10°17	7°49	6°40	1°31	1° 3	W29
T 30	14 29 10	8♉54'59	13♒36	25♉25	23♓52	15♍45	10♋20	6♉11	12♓ 9	26♋35	10♈19	7°D48	6♎37	1♉38	1♉ 7	T 30

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	4n13	16s43	5n10	3s 8	2s 8	4s30	4n44	6n50	3n11	23n35	0n16	10n18	2s12	8s12	0s44	20n38	0s17	11s34	16s45	3s15	3s14	9n16	10n45	0s30
T 2	4 36	14 37	4 46	2 20	2 4	4 37	4 32	6 55	3 8	23 35	0 16	10 21	2 12	8 11	0 44	20 38	0 17	11 33	16 45	3 15	3 13	9 17	10 47	0 30
F 3	4 59	11 52	4 9	1 32	2 0	4 42	4 20	7 0	3 6	23 35	0 16	10 23	2 12	8 10	0 44	20 38	0 17	11 32	16 45	3 15	3 12	9 19	10 48	0 30
S 4	5 22	8 38	3 20	0 43	1 55	4 47	4 8	7 5	3 4	23 34	0 16	10 26	2 12	8 8	0 44	20 38	0 17	11 32	16 45	3 16	3 11	9 21	10 49	0 30
S 5	5 45	5 5	2 24	0n 8	1 50	4 51	3 56	7 10	3 1	23 34	0 16	10 29	2 12	8 7	0 44	20 38	0 17	11 31	16 45	3 16	3 9	9 22	10 51	0 30
M 6	6 8	1 22	1 21	0 59	1 44	4 54	3 44	7 14	2 59	23 34	0 16	10 31	2 12	8 6	0 44	20 38	0 17	11 31	16 45	3 16	3 8	9 24	10 52	0 30
T 7	6 31	2n23	0 16	1 51	1 38	4 56	3 33	7 18	2 56	23 34	0 16	10 34	2 12	8 5	0 44	20 38	0 17	11 30	16 45	3 16	3 7	9 25	10 53	0 30
W 8	6 53	6 1	0s50	2 44	1 31	4 58	3 21	7 22	2 53	23 33	0 16	10 36	2 11	8 4	0 44	20 38	0 17	11 30	16 45	3 16	3 6	9 27	10 55	0 30
T 9	7 16	9 23	1 53	3 38	1 23	4 58	3 10	7 25	2 51	23 33	0 16	10 39	2 11	8 3	0 44	20 38	0 17	11 29	16 45	3 16	3 4	9 28	10 56	0 30
F 10	7 38	12 24	2 51	4 32	1 16	4 58	2 59	7 28	2 48	23 33	0 16	10 42	2 11	8 2	0 44	20 38	0 17	11 29	16 45	3 15	3 3	9 30	10 57	0 30
S 11	8 0	14 53	3 42	5 27	1 7	4 57	2 48	7 31	2 46	23 32	0 16	10 44	2 11	8 1	0 45	20 38	0 17	11 28	16 45	3 15	3 2	9 32	10 58	0 30
S 12	8 22	16 46	4 24	6 23	0 59	4 55	2 37	7 33	2 43	23 32	0 17	10 47	2 11	8 0	0 45	20 38	0 17	11 28	16 45	3 14	3 1	9 33	11 0	0 30
M13	8 44	17 56	4 55	7 19	0 49	4 53	2 27	7 35	2 40	23 32	0 17	10 50	2 11	7 59	0 45	20 38	0 17	11 27	16 45	3 13	2 59	9 35	11 1	0 31
T 14	9 6	18 17	5 12	8 15	0 40	4 49	2 16	7 37	2 38	23 31	0 17	10 52	2 11	7 58	0 45	20 38	0 17	11 27	16 45	3 12	2 58	9 36	11 2	0 31
W15	9 27	17 46	5 16	9 11	0 30	4 45	2 6	7 39	2 35	23 31	0 17	10 55	2 11	7 57	0 45	20 38	0 17	11 26	16 46	3 12	2 57	9 38	11 4	0 31
T 16	9 49	16 21	5 4	10 6	0 20	4 41	1 56	7 40	2 32	23 30	0 17	10 57	2 11	7 56	0 45	20 38	0 17	11 26	16 46	3 12	2 56	9 39	11 5	0 31
F 17	10 10	14 4	4 37	11 2	0 9	4 35	1 47	7 41	2 30	23 30	0 17	11 0	2 11	7 55	0 45	20 38	0 17	11 26	16 46	3 12	2 54	9 41	11 6	0 31
S 18	10 31	10 58	3 53	11 57	0n 1	4 29	1 37	7 41	2 27	23 29	0 17	11 3	2 11	7 54	0 45	20 38	0 17	11 25	16 46	3 12	2 53	9 43	11 8	0 31
S 19	10 52	7 8	2 55	12 51	0 12	4 22	1 28	7 41	2 24	23 29	0 17	11 5	2 11	7 53	0 45	20 38	0 17	11 25	16 46	3 13	2 52	9 44	11 9	0 31
M20	11 13	2 47	1 44	13 45	0 23	4 15	1 19	7 41	2 21	23 29	0 17	11 8	2 11	7 52	0 45	20 38	0 17	11 24	16 46	3 13	2 51	9 46	11 10	0 31
T 21	11 34	1s51	0 24	14 37	0 34	4 7	1 10	7 41	2 19	23 28	0 17	11 11	2 11	7 51	0 45	20 38	0 17	11 24	16 46	3 14	2 49	9 47	11 12	0 31
W22	11 54	6 28	0n59	15 28	0 44	3 58	1 1	7 40	2 16	23 28	0 17	11 13	2 11	7 50	0 45	20 38	0 17	11 23	16 46	3 14	2 48	9 49	11 13	0 31
T 23	12 14	10 43	2 18	16 17	0 55	3 49	0 52	7 39	2 13	23 27	0 17	11 16	2 11	7 49	0 45	20 37	0 17	11 23	16 46	3 13	2 47	9 50	11 14	0 31
F 24	12 34	14 14	3 27	17 4	1 5	3 39	0 44	7 38	2 11	23 26	0 17	11 18	2 10	7 48	0 45	20 37	0 17	11 23	16 47	3 12	2 45	9 52	11 15	0 31
S 25	12 54	16 45	4 22	17 50	1 15	3 28	0 36	7 36	2 8	23 26	0 17	11 21	2 10	7 47	0 45	20 37	0 17	11 22	16 47	3 11	2 44	9 53	11 17	0 32
S 26	13 14	18 6	4 57	18 33	1 25	3 17	0 28	7 34	2 6	23 25	0 17	11 23	2 10	7 46	0 45	20 37	0 17	11 22	16 47	3 9	2 43	9 55	11 18	0 32
M27	13 33	18 14	5 13	19 14	1 34	3 6	0 20	7 32	2 3	23 25	0 17	11 26	2 10	7 45	0 45	20 37	0 16	11 21	16 47	3 8	2 42	9 57	11 19	0 32
T 28	13 52	17 15	5 10	19 53	1 42	2 54	0 13	7 30	2 0	23 24	0 18	11 29	2 10	7 44	0 45	20 37	0 16	11 21	16 47	3 7	2 40	9 58	11 21	0 32
W29	14 11	15 21	4 50	20 30	1 50	2 41	0 6	7 27	1 58	23 23	0 18	11 31	2 10	7 44	0 45	20 37	0 16	11 21	16 47	3 6	2 39	10 0	11 22	0 32
T 30	14n30	12s42	4n15	21n 4	1n58	2s28	0s 2	7n24	1n55	23n23	0n18	11n34	2s10	7s43	0s45	20n37	0s16	11s20	16s47	3s 6	2s38	10n 1	11n23	0s32

Julian Day Number = 2300789.5, Delta T = 107.73 sec
Ecliptic obliquity = 23°29'26, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°58'48, Lahiri = 18°05'48Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

MAY 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	14 33 6	9♉53'03	26♒12	27♉10	24♓42	15♍47	10♋30	6♉19	12♓11	26♋36	10♈20	7♎49	6♎34	1♉44	1♉11	F 1
S 2	14 37 3	10°51'05	8♓29	28°53	25°33	15°50	10°39	6°27	12°13	26°37	10°21	7°51	6°31	1°51	1°15	S 2
S 3	14 40 59	11°49'06	20°33	0♊31	26°25	15°54	10°49	6°34	12°15	26°38	10°22	7°53	6°27	1°58	1°19	S 3
M 4	14 44 56	12°47'06	2♈28	2° 6	27°17	15°58	10°59	6°42	12°17	26°39	10°24	7°R54	6°24	2° 4	1°23	M 4
T 5	14 48 52	13°45'05	14°17	3°38	28°10	16° 3	11° 8	6°50	12°19	26°39	10°25	7°54	6°21	2°11	1°26	T 5
W 6	14 52 49	14°43'02	26° 4	5° 5	29° 3	16° 9	11°18	6°57	12°22	26°40	10°26	7°52	6°18	2°18	1°30	W 6
T 7	14 56 46	15°40'57	7♉52	6°29	29°57	16°16	11°28	7° 5	12°23	26°41	10°27	7°49	6°15	2°24	1°34	T 7
F 8	15 0 42	16°38'51	19°42	7°49	0♈52	16°23	11°38	7°13	12°25	26°42	10°29	7°43	6°12	2°31	1°38	F 8
S 9	15 4 39	17°36'44	1♊38	9° 5	1°47	16°31	11°49	7°20	12°27	26°43	10°30	7°37	6° 8	2°38	1°42	S 9
S 10	15 8 35	18°34'35	13°40	10°18	2°42	16°39	11°59	7°28	12°29	26°44	10°31	7°29	6° 5	2°44	1°46	S 10
M11	15 12 32	19°32'24	25°50	11°26	3°38	16°49	12° 9	7°36	12°31	26°45	10°32	7°22	6° 2	2°51	1°50	M11
T 12	15 16 28	20°30'12	8♋11	12°30	4°35	16°58	12°20	7°43	12°33	26°47	10°33	7°15	5°59	2°58	1°53	T 12
W13	15 20 25	21°27'58	20°43	13°30	5°32	17° 9	12°30	7°51	12°34	26°48	10°35	7° 9	5°56	3° 4	1°57	W13
T 14	15 24 21	22°25'43	3♌31	14°26	6°29	17°20	12°41	7°58	12°36	26°49	10°36	7° 6	5°52	3°11	2° 1	T 14
F 15	15 28 18	23°23'26	16°35	15°17	7°27	17°31	12°52	8° 6	12°38	26°50	10°37	7° 4	5°49	3°18	2° 5	F 15
S 16	15 32 15	24°21'07	29°59	16° 4	8°25	17°43	13° 2	8°14	12°39	26°51	10°38	7°D 4	5°46	3°24	2° 9	S 16
S 17	15 36 11	25°18'47	13♍45	16°47	9°23	17°56	13°13	8°21	12°41	26°52	10°39	7° 5	5°43	3°31	2°12	S 17
M18	15 40 8	26°16'25	27°55	17°25	10°22	18° 9	13°24	8°29	12°42	26°54	10°40	7° 6	5°40	3°38	2°16	M18
T 19	15 44 4	27°14'02	12♎26	17°59	11°21	18°23	13°35	8°36	12°44	26°55	10°41	7°R 6	5°37	3°44	2°20	T 19
W20	15 48 1	28°11'37	27°17	18°28	12°21	18°37	13°46	8°43	12°45	26°56	10°42	7° 4	5°33	3°51	2°23	W20
T 21	15 51 57	29° 9'10	12♏21	18°52	13°21	18°52	13°58	8°51	12°47	26°58	10°43	7° 1	5°30	3°58	2°27	T 21
F 22	15 55 54	0♊ 6'43	27°30	19°12	14°21	19° 8	14° 9	8°58	12°48	26°59	10°44	6°55	5°27	4° 4	2°31	F 22
S 23	15 59 50	1° 4'14	12♐34	19°27	15°22	19°24	14°20	9° 6	12°49	27° 0	10°45	6°47	5°24	4°11	2°34	S 23
S 24	16 3 47	2° 1'45	27°23	19°37	16°23	19°40	14°32	9°13	12°50	27° 2	10°46	6°39	5°21	4°18	2°38	S 24
M25	16 7 44	2°59'14	11♑50	19°43	17°24	19°57	14°43	9°20	12°52	27° 3	10°47	6°31	5°18	4°24	2°41	M25
T 26	16 11 40	3°56'43	25°49	19°R44	18°25	20°14	14°55	9°28	12°53	27° 5	10°48	6°24	5°14	4°31	2°45	T 26
W27	16 15 37	4°54'11	9♒19	19°41	19°27	20°32	15° 6	9°35	12°54	27° 6	10°49	6°19	5°11	4°37	2°48	W27
T 28	16 19 33	5°51'38	22°22	19°33	20°29	20°50	15°18	9°42	12°55	27° 8	10°50	6°16	5° 8	4°44	2°52	T 28
F 29	16 23 30	6°49'04	4♓59	19°21	21°31	21° 9	15°30	9°49	12°56	27° 9	10°51	6°D15	5° 5	4°51	2°55	F 29
S 30	16 27 26	7°46'29	17°16	19° 5	22°34	21°28	15°41	9°56	12°57	27°11	10°52	6°16	5° 2	4°57	2°59	S 30
S 31	16 31 23	8♊43'54	29♓19	18♊45	23♈37	21♍47	15♋53	10♉ 4	12♓58	27♋12	10♈53	6♎16	4♎58	5♉ 4	3♉ 2	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	14n49	9s32	3n29	21n35	2n 4	2s14	0s 9	7n21	1n53	23n22	0n18	11n36	2s10	7s42	0s45	20n37	0s16	11s20	16s48	3s 7	2s37	10n 3	11n25	0s32
S 2	15 7	6 1	2 34	22 4	2 10	2 0	0 15	7 17	1 50	23 21	0 18	11 39	2 10	7 41	0 45	20 37	0 16	11 20	16 48	3 7	2 35	10 4	11 26	0 32
S 3	15 25	2 19	1 34	22 30	2 15	1 46	0 22	7 14	1 48	23 21	0 18	11 41	2 10	7 40	0 45	20 36	0 16	11 19	16 48	3 8	2 34	10 6	11 27	0 32
M 4	15 43	1n26	0 30	22 54	2 20	1 31	0 28	7 10	1 45	23 20	0 18	11 44	2 10	7 40	0 45	20 36	0 16	11 19	16 48	3 8	2 33	10 7	11 28	0 32
T 5	16 0	5 6	0s35	23 16	2 23	1 15	0 34	7 5	1 43	23 19	0 18	11 46	2 10	7 39	0 45	20 36	0 16	11 19	16 48	3 8	2 32	10 9	11 30	0 32
W 6	16 17	8 34	1 38	23 35	2 26	1 0	0 40	7 1	1 40	23 18	0 18	11 49	2 10	7 38	0 45	20 36	0 16	11 19	16 49	3 8	2 30	10 10	11 31	0 32
T 7	16 34	11 42	2 36	23 52	2 28	0 43	0 46	6 56	1 38	23 18	0 18	11 51	2 10	7 37	0 45	20 36	0 16	11 18	16 49	3 6	2 29	10 12	11 32	0 33
F 8	16 51	14 22	3 28	24 6	2 29	0 27	0 52	6 51	1 36	23 17	0 18	11 54	2 10	7 37	0 45	20 36	0 16	11 18	16 49	3 4	2 28	10 13	11 33	0 33
S 9	17 7	16 26	4 11	24 18	2 29	0 10	0 57	6 46	1 33	23 16	0 18	11 56	2 10	7 36	0 45	20 35	0 16	11 18	16 49	3 2	2 27	10 15	11 35	0 33
S 10	17 23	17 48	4 43	24 29	2 28	0n 7	1 3	6 40	1 31	23 15	0 18	11 59	2 10	7 35	0 45	20 35	0 16	11 17	16 49	2 59	2 25	10 16	11 36	0 33
M11	17 39	18 23	5 3	24 37	2 26	0 25	1 8	6 35	1 29	23 14	0 18	12 1	2 10	7 35	0 45	20 35	0 16	11 17	16 50	2 56	2 24	10 18	11 37	0 33
T 12	17 55	18 6	5 9	24 42	2 23	0 43	1 13	6 29	1 26	23 13	0 18	12 4	2 10	7 34	0 45	20 35	0 16	11 17	16 50	2 53	2 23	10 20	11 38	0 33
W13	18 10	16 56	5 1	24 46	2 19	1 1	1 18	6 23	1 24	23 12	0 18	12 6	2 10	7 33	0 45	20 35	0 16	11 17	16 50	2 51	2 22	10 21	11 40	0 33
T 14	18 25	14 55	4 37	24 49	2 15	1 19	1 22	6 16	1 22	23 11	0 18	12 8	2 10	7 33	0 45	20 34	0 16	11 16	16 50	2 49	2 20	10 23	11 41	0 33
F 15	18 40	12 6	3 59	24 49	2 9	1 38	1 27	6 10	1 20	23 10	0 19	12 11	2 10	7 32	0 46	20 34	0 16	11 16	16 51	2 49	2 19	10 24	11 42	0 33
S 16	18 54	8 35	3 7	24 48	2 3	1 57	1 31	6 3	1 17	23 9	0 19	12 13	2 10	7 32	0 46	20 34	0 16	11 16	16 51	2 49	2 18	10 26	11 43	0 33
S 17	19 8	4 31	2 3	24 44	1 55	2 16	1 35	5 56	1 15	23 8	0 19	12 16	2 10	7 31	0 46	20 34	0 16	11 16	16 51	2 49	2 16	10 27	11 44	0 33
M18	19 22	0 5	0 49	24 40	1 47	2 36	1 39	5 49	1 13	23 7	0 19	12 18	2 11	7 30	0 46	20 34	0 16	11 16	16 51	2 49	2 15	10 29	11 46	0 34
T 19	19 35	4s29	0n29	24 34	1 37	2 56	1 43	5 42	1 11	23 6	0 19	12 20	2 11	7 30	0 46	20 33	0 16	11 16	16 51	2 49	2 14	10 30	11 47	0 34
W20	19 48	8 52	1 47	24 26	1 27	3 16	1 46	5 34	1 9	23 5	0 19	12 23	2 11	7 29	0 46	20 33	0 16	11 15	16 52	2 49	2 13	10 32	11 48	0 34
T 21	20 1	12 45	2 58	24 17	1 16	3 36	1 50	5 26	1 7	23 4	0 19	12 25	2 11	7 29	0 46	20 33	0 16	11 15	16 52	2 47	2 11	10 33	11 49	0 34
F 22	20 13	15 47	3 57	24 6	1 4	3 56	1 53	5 18	1 5	23 3	0 19	12 27	2 11	7 28	0 46	20 33	0 16	11 15	16 52	2 45	2 10	10 35	11 50	0 34
S 23	20 25	17 44	4 39	23 55	0 51	4 17	1 56	5 10	1 3	23 2	0 19	12 30	2 11	7 28	0 46	20 32	0 16	11 15	16 53	2 42	2 9	10 36	11 51	0 34
S 24	20 37	18 26	5 2	23 42	0 37	4 37	1 59	5 2	1 1	23 1	0 19	12 32	2 11	7 28	0 46	20 32	0 16	11 15	16 53	2 39	2 8	10 38	11 53	0 34
M25	20 48	17 54	5 5	23 28	0 22	4 58	2 2	4 54	0 59	23 0	0 19	12 34	2 11	7 27	0 46	20 32	0 16	11 15	16 53	2 36	2 6	10 39	11 54	0 34
T 26	20 59	16 18	4 49	23 13	0 7	5 19	2 5	4 45	0 57	22 58	0 19	12 36	2 11	7 27	0 46	20 32	0 16	11 15	16 53	2 33	2 5	10 41	11 55	0 34
W27	21 10	13 49	4 17	22 57	0s 9	5 40	2 7	4 36	0 55	22 57	0 19	12 39	2 11	7 26	0 46	20 31	0 16	11 14	16 54	2 31	2 4	10 42	11 56	0 34
T 28	21 20	10 44	3 33	22 40	0 25	6 1	2 10	4 27	0 53	22 56	0 19	12 41	2 11	7 26	0 46	20 31	0 16	11 14	16 54	2 30	2 3	10 44	11 57	0 34
F 29	21 30	7 14	2 40	22 22	0 42	6 22	2 12	4 18	0 51	22 55	0 19	12 43	2 11	7 26	0 46	20 31	0 16	11 14	16 54	2 29	2 1	10 45	11 58	0 35
S 30	21 39	3 30	1 40	22 4	0 59	6 43	2 14	4 9	0 50	22 53	0 19	12 45	2 11	7 25	0 46	20 31	0 16	11 14	16 55	2 29	2 0	10 47	11 59	0 35
S 31	21n48	0n18	0n37	21n45	1s16	7n 5	2s16	4n 0	0n48	22n52	0n20	12n47	2s11	7s25	0s46	20n30	0s16	11s14	16s55	2s30	1s59	10n48	12n 0	0s35

Julian Day Number = 2300819.5, Delta T = 107.60 sec
Ecliptic obliquity = 23°29'25, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°58'52, Lahiri = 18°05'52Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

JUNE 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	16 35 19	9♊41'18	11♈11	18°R22	24♈40	22♍ 7	16♋ 5	10♉11	12♓59	27♋14	10♈53	6°R16	4♎55	5♉11	3♉ 6	M 1
T 2	16 39 16	10°38'42	22°59	17♊56	25°43	22°28	16°17	10°18	13° 0	27°16	10°54	6♎15	4°52	5°17	3° 9	T 2
W 3	16 43 13	11°36'05	4♉46	17°27	26°47	22°48	16°29	10°25	13° 0	27°17	10°55	6°11	4°49	5°24	3°12	W 3
T 4	16 47 9	12°33'27	16°36	16°56	27°50	23° 9	16°41	10°32	13° 1	27°19	10°56	6° 5	4°46	5°31	3°15	T 4
F 5	16 51 6	13°30'49	28°32	16°24	28°54	23°31	16°54	10°39	13° 2	27°21	10°57	5°56	4°43	5°37	3°19	F 5
S 6	16 55 2	14°28'10	10♊36	15°51	29°58	23°53	17° 6	10°45	13° 2	27°22	10°57	5°45	4°39	5°44	3°22	S 6
S 7	16 58 59	15°25'30	22°50	15°17	1♉ 3	24°15	17°18	10°52	13° 3	27°24	10°58	5°33	4°36	5°51	3°25	S 7
M 8	17 2 55	16°22'50	5♋14	14°44	2° 7	24°38	17°30	10°59	13° 3	27°26	10°59	5°21	4°33	5°57	3°28	M 8
T 9	17 6 52	17°20'09	17°48	14°11	3°12	25° 1	17°43	11° 6	13° 4	27°28	11° 0	5°10	4°30	6° 4	3°31	T 9
W10	17 10 48	18°17'27	0♌34	13°39	4°17	25°24	17°55	11°13	13° 4	27°29	11° 0	5° 0	4°27	6°11	3°35	W10
T 11	17 14 45	19°14'44	13°32	13° 9	5°22	25°48	18° 8	11°19	13° 5	27°31	11° 1	4°53	4°24	6°17	3°38	T 11
F 12	17 18 42	20°12'01	26°43	12°42	6°27	26°12	18°20	11°26	13° 5	27°33	11° 2	4°49	4°20	6°24	3°41	F 12
S 13	17 22 38	21° 9'16	10♍ 9	12°17	7°33	26°37	18°33	11°32	13° 5	27°35	11° 2	4°47	4°17	6°31	3°44	S 13
S 14	17 26 35	22° 6'31	23°51	11°56	8°38	27° 2	18°45	11°39	13° 6	27°37	11° 3	4°D47	4°14	6°37	3°46	S 14
M15	17 30 31	23° 3'45	7♎51	11°38	9°44	27°27	18°58	11°45	13° 6	27°39	11° 3	4°R47	4°11	6°44	3°49	M15
T 16	17 34 28	24° 0'59	22° 7	11°24	10°50	27°52	19°10	11°52	13° 6	27°41	11° 4	4°46	4° 8	6°51	3°52	T 16
W17	17 38 24	24°58'11	6♏40	11°14	11°56	28°18	19°23	11°58	13° 6	27°43	11° 4	4°43	4° 4	6°57	3°55	W17
T 18	17 42 21	25°55'24	21°24	11° 8	13° 2	28°44	19°36	12° 5	13°R 6	27°45	11° 5	4°38	4° 1	7° 4	3°58	T 18
F 19	17 46 17	26°52'35	6♐15	11°D 7	14° 8	29°10	19°49	12°11	13° 6	27°46	11° 6	4°30	3°58	7°11	4° 1	F 19
S 20	17 50 14	27°49'47	21° 3	11°11	15°15	29°37	20° 1	12°17	13° 6	27°48	11° 6	4°20	3°55	7°17	4° 3	S 20
S 21	17 54 11	28°46'58	5♑42	11°20	16°21	0♎ 4	20°14	12°23	13° 6	27°50	11° 6	4° 9	3°52	7°24	4° 6	S 21
M22	17 58 7	29°44'08	20° 2	11°33	17°28	0°31	20°27	12°29	13° 6	27°52	11° 7	3°58	3°49	7°31	4° 9	M22
T 23	18 2 4	0♋41'19	3♒59	11°51	18°35	0°58	20°40	12°35	13° 5	27°54	11° 7	3°48	3°45	7°38	4°11	T 23
W24	18 6 0	1°38'30	17°30	12°14	19°42	1°26	20°53	12°41	13° 5	27°56	11° 8	3°41	3°42	7°44	4°14	W24
T 25	18 9 57	2°35'40	0♓34	12°41	20°49	1°54	21° 6	12°47	13° 5	27°59	11° 8	3°36	3°39	7°51	4°16	T 25
F 26	18 13 53	3°32'51	13°13	13°14	21°57	2°22	21°19	12°53	13° 5	28° 1	11° 8	3°33	3°36	7°58	4°19	F 26
S 27	18 17 50	4°30'02	25°33	13°51	23° 4	2°51	21°32	12°59	13° 4	28° 3	11° 9	3°32	3°33	8° 4	4°21	S 27
S 28	18 21 47	5°27'13	7♈36	14°33	24°12	3°19	21°45	13° 5	13° 4	28° 5	11° 9	3°32	3°29	8°11	4°23	S 28
M29	18 25 43	6°24'25	19°30	15°19	25°19	3°48	21°58	13°10	13° 3	28° 7	11° 9	3°32	3°26	8°18	4°26	M29
T 30	18 29 40	7♋21'36	1♉18	16♊11	26♉27	4♎17	22♋11	13♉16	13♓ 3	28♋ 9	11♈10	3♎30	3♎23	8♉24	4♉28	T 30

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	21n57	4n 2	0s26	21n26	1s33	7n26	2s18	3n50	0n46	22n51	0n20	12n49	2s11	7s25	0s46	20n30	0s16	11s14	16s55	2s30	1s58	10n50	12n 1	0s35
T 2	22 5	7 35	1 28	21 6	1 51	7 48	2 20	3 40	0 44	22 49	0 20	12 52	2 11	7 24	0 46	20 30	0 16	11 14	16 55	2 29	1 56	10 51	12 2	0 35
W 3	22 13	10 51	2 26	20 47	2 7	8 9	2 21	3 31	0 42	22 48	0 20	12 54	2 11	7 24	0 46	20 29	0 16	11 14	16 56	2 28	1 55	10 53	12 3	0 35
T 4	22 21	13 41	3 18	20 28	2 24	8 31	2 23	3 21	0 41	22 46	0 20	12 56	2 12	7 24	0 46	20 29	0 16	11 14	16 56	2 25	1 54	10 54	12 4	0 35
F 5	22 28	15 57	4 1	20 8	2 40	8 52	2 24	3 11	0 39	22 45	0 20	12 58	2 12	7 24	0 46	20 29	0 16	11 14	16 56	2 22	1 53	10 56	12 6	0 35
S 6	22 35	17 34	4 34	19 50	2 55	9 13	2 25	3 0	0 37	22 43	0 20	13 0	2 12	7 23	0 46	20 28	0 16	11 14	16 57	2 17	1 51	10 57	12 7	0 35
S 7	22 41	18 24	4 55	19 32	3 10	9 35	2 26	2 50	0 36	22 42	0 20	13 2	2 12	7 23	0 46	20 28	0 16	11 14	16 57	2 13	1 50	10 59	12 7	0 36
M 8	22 47	18 22	5 2	19 15	3 23	9 56	2 27	2 39	0 34	22 40	0 20	13 4	2 12	7 23	0 46	20 28	0 16	11 14	16 57	2 8	1 49	11 0	12 8	0 36
T 9	22 53	17 26	4 55	18 59	3 35	10 17	2 28	2 29	0 32	22 39	0 20	13 6	2 12	7 23	0 46	20 27	0 16	11 14	16 58	2 3	1 47	11 1	12 9	0 36
W10	22 58	15 38	4 33	18 44	3 46	10 39	2 28	2 18	0 31	22 37	0 20	13 8	2 12	7 23	0 47	20 27	0 16	11 14	16 58	1 59	1 46	11 3	12 10	0 36
T 11	23 3	13 1	3 57	18 31	3 56	11 0	2 29	2 7	0 29	22 36	0 20	13 10	2 12	7 23	0 47	20 27	0 16	11 14	16 58	1 57	1 45	11 4	12 11	0 36
F 12	23 8	9 42	3 7	18 19	4 5	11 21	2 29	1 56	0 28	22 34	0 20	13 12	2 12	7 23	0 47	20 26	0 16	11 14	16 59	1 55	1 44	11 6	12 12	0 36
S 13	23 12	5 49	2 7	18 9	4 12	11 42	2 30	1 45	0 26	22 32	0 20	13 14	2 12	7 23	0 47	20 26	0 16	11 14	16 59	1 54	1 42	11 7	12 13	0 36
S 14	23 15	1 34	0 58	18 1	4 18	12 3	2 30	1 34	0 25	22 31	0 20	13 15	2 13	7 23	0 47	20 26	0 16	11 14	16 59	1 54	1 41	11 9	12 14	0 36
M15	23 18	2s52	0n16	17 54	4 22	12 23	2 30	1 22	0 23	22 29	0 21	13 17	2 13	7 22	0 47	20 25	0 16	11 15	17 0	1 54	1 40	11 10	12 15	0 36
T 16	23 21	7 14	1 31	17 49	4 25	12 44	2 30	1 11	0 22	22 27	0 21	13 19	2 13	7 22	0 47	20 25	0 16	11 15	17 0	1 54	1 39	11 12	12 16	0 36
W17	23 24	11 15	2 40	17 47	4 26	13 4	2 30	0 59	0 20	22 26	0 21	13 21	2 13	7 22	0 47	20 25	0 16	11 15	17 0	1 53	1 37	11 13	12 17	0 37
T 18	23 26	14 36	3 40	17 46	4 27	13 24	2 30	0 47	0 19	22 24	0 21	13 23	2 13	7 22	0 47	20 24	0 16	11 15	17 1	1 51	1 36	11 15	12 17	0 37
F 19	23 27	17 2	4 26	17 46	4 26	13 44	2 29	0 36	0 17	22 22	0 21	13 25	2 13	7 23	0 47	20 24	0 16	11 15	17 1	1 48	1 35	11 16	12 18	0 37
S 20	23 28	18 19	4 53	17 49	4 23	14 4	2 29	0 24	0 16	22 20	0 21	13 26	2 13	7 23	0 47	20 23	0 16	11 15	17 1	1 44	1 34	11 18	12 19	0 37
S 21	23 29	18 22	5 1	17 54	4 20	14 24	2 28	0 12	0 14	22 18	0 21	13 28	2 13	7 23	0 47	20 23	0 15	11 15	17 2	1 39	1 32	11 19	12 20	0 37
M22	23 29	17 13	4 49	18 0	4 15	14 43	2 27	0s 0	0 13	22 17	0 21	13 30	2 14	7 23	0 47	20 23	0 15	11 15	17 2	1 35	1 31	11 20	12 21	0 37
T 23	23 29	15 4	4 21	18 8	4 10	15 2	2 27	0 13	0 12	22 15	0 21	13 32	2 14	7 23	0 47	20 22	0 15	11 16	17 2	1 31	1 30	11 22	12 21	0 37
W24	23 29	12 10	3 38	18 17	4 3	15 21	2 26	0 25	0 10	22 13	0 21	13 33	2 14	7 23	0 47	20 22	0 15	11 16	17 3	1 28	1 29	11 23	12 22	0 37
T 25	23 28	8 43	2 45	18 28	3 56	15 40	2 25	0 37	0 9	22 11	0 21	13 35	2 14	7 23	0 47	20 22	0 15	11 16	17 3	1 26	1 27	11 25	12 23	0 37
F 26	23 27	4 59	1 45	18 40	3 48	15 58	2 24	0 50	0 7	22 9	0 21	13 36	2 14	7 23	0 47	20 21	0 15	11 16	17 4	1 25	1 26	11 26	12 24	0 38
S 27	23 25	1 8	0 42	18 53	3 39	16 17	2 23	1 2	0 6	22 7	0 21	13 38	2 14	7 24	0 47	20 21	0 15	11 16	17 4	1 25	1 25	11 28	12 24	0 38
S 28	23 23	2n42	0s22	19 8	3 29	16 34	2 21	1 15	0 5	22 5	0 21	13 40	2 14	7 24	0 47	20 20	0 15	11 17	17 4	1 24	1 23	11 29	12 25	0 38
M29	23 20	6 21	1 24	19 23	3 19	16 52	2 20	1 28	0 4	22 3	0 22	13 41	2 15	7 24	0 47	20 20	0 15	11 17	17 5	1 24	1 22	11 31	12 26	0 38
T 30	23n17	9n45	2s21	19n39	3s 8	17n 9	2s19	1s40	0n 2	22n 1	0n22	13n43	2s15	7s24	0s47	20n20	0s15	11s17	17s 5	1s24	1s21	11n32	12n26	0s38

Julian Day Number = 2300850.5, Delta T = 107.46 sec
Ecliptic obliquity = 23°29'25, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°58'56, Lahiri = 18°05'57Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

JULY 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	18 33 36	8♋18'48	13♉ 8	17♊ 6	27♉35	4♎47	22♋24	13♉21	13°R 2	28♋11	11♈10	3°R26	3♎20	8♉31	4♉30	W 1
T 2	18 37 33	9°16'01	25° 2	18° 6	28°43	5°17	22°37	13°27	13♓ 1	28°13	11°10	3♎20	3°17	8°38	4°32	T 2
F 3	18 41 29	10°13'13	7♊ 4	19°11	29°51	5°47	22°51	13°32	13° 1	28°15	11°10	3°11	3°14	8°44	4°35	F 3
S 4	18 45 26	11°10'26	19°18	20°20	1♊ 0	6°17	23° 4	13°38	13° 0	28°17	11°11	2°59	3°10	8°51	4°37	S 4
S 5	18 49 22	12° 7'39	1♋44	21°33	2° 8	6°47	23°17	13°43	12°59	28°20	11°11	2°47	3° 7	8°58	4°39	S 5
M 6	18 53 19	13° 4'53	14°24	22°51	3°16	7°18	23°30	13°48	12°58	28°22	11°11	2°34	3° 4	9° 4	4°41	M 6
T 7	18 57 16	14° 2'07	27°17	24°12	4°25	7°49	23°43	13°53	12°58	28°24	11°11	2°22	3° 1	9°11	4°43	T 7
W 8	19 1 12	14°59'21	10♌23	25°38	5°34	8°20	23°57	13°58	12°57	28°26	11°11	2°12	2°58	9°18	4°44	W 8
T 9	19 5 9	15°56'35	23°40	27° 8	6°42	8°51	24°10	14° 3	12°56	28°28	11°11	2° 5	2°55	9°24	4°46	T 9
F 10	19 9 5	16°53'49	7♍ 7	28°42	7°51	9°23	24°23	14° 8	12°55	28°30	11°11	2° 0	2°51	9°31	4°48	F 10
S 11	19 13 2	17°51'04	20°45	0♋19	9° 0	9°54	24°36	14°13	12°54	28°33	11°11	1°58	2°48	9°38	4°50	S 11
S 12	19 16 58	18°48'18	4♎33	2° 0	10° 9	10°26	24°50	14°18	12°53	28°35	11°R11	1°D58	2°45	9°44	4°52	S 12
M13	19 20 55	19°45'33	18°32	3°45	11°18	10°59	25° 3	14°22	12°52	28°37	11°11	1°R58	2°42	9°51	4°53	M13
T 14	19 24 51	20°42'47	2♏40	5°33	12°28	11°31	25°16	14°27	12°50	28°39	11°11	1°57	2°39	9°58	4°55	T 14
W15	19 28 48	21°40'03	16°57	7°24	13°37	12° 3	25°30	14°31	12°49	28°41	11°11	1°55	2°35	10° 4	4°56	W15
T 16	19 32 45	22°37'18	1♐21	9°18	14°46	12°36	25°43	14°36	12°48	28°44	11°11	1°51	2°32	10°11	4°58	T 16
F 17	19 36 41	23°34'34	15°47	11°14	15°56	13° 9	25°56	14°40	12°47	28°46	11°11	1°44	2°29	10°18	4°59	F 17
S 18	19 40 38	24°31'50	0♑11	13°13	17° 5	13°42	26°10	14°44	12°45	28°48	11°11	1°35	2°26	10°24	5° 0	S 18
S 19	19 44 34	25°29'06	14°27	15°14	18°15	14°15	26°23	14°48	12°44	28°50	11°11	1°25	2°23	10°31	5° 2	S 19
M20	19 48 31	26°26'24	28°29	17°17	19°25	14°49	26°36	14°53	12°43	28°53	11°11	1°15	2°20	10°38	5° 3	M20
T 21	19 52 27	27°23'41	12♒12	19°21	20°35	15°23	26°49	14°57	12°41	28°55	11°10	1° 6	2°16	10°44	5° 4	T 21
W22	19 56 24	28°21'00	25°34	21°26	21°45	15°56	27° 3	15° 0	12°40	28°57	11°10	0°59	2°13	10°51	5° 5	W22
T 23	20 0 20	29°18'20	8♓33	23°31	22°55	16°30	27°16	15° 4	12°38	28°59	11°10	0°54	2°10	10°58	5° 6	T 23
F 24	20 4 17	0♌15'40	21°10	25°38	24° 5	17° 4	27°29	15° 8	12°37	29° 1	11°10	0°52	2° 7	11° 4	5° 7	F 24
S 25	20 8 14	1°13'01	3♈29	27°44	25°15	17°39	27°43	15°12	12°35	29° 4	11° 9	0°D52	2° 4	11°11	5° 8	S 25
S 26	20 12 10	2°10'24	15°34	29°50	26°25	18°13	27°56	15°15	12°33	29° 6	11° 9	0°52	2° 1	11°18	5° 9	S 26
M27	20 16 7	3° 7'48	27°29	1♌56	27°36	18°48	28° 9	15°19	12°32	29° 8	11° 9	0°53	1°57	11°24	5°10	M27
T 28	20 20 3	4° 5'12	9♉19	4° 1	28°46	19°23	28°23	15°22	12°30	29°10	11° 8	0°R53	1°54	11°31	5°11	T 28
W29	20 24 0	5° 2'38	21°10	6° 5	29°57	19°58	28°36	15°25	12°28	29°13	11° 8	0°51	1°51	11°38	5°12	W29
T 30	20 27 56	6° 0'06	3♊ 7	8° 8	1♋ 7	20°33	28°49	15°29	12°27	29°15	11° 8	0°48	1°48	11°44	5°12	T 30
F 31	20 31 53	6♌57'34	15♊14	10♌10	2♋18	21♎ 8	29♋ 2	15♉32	12♓25	29♋17	11♈ 7	0♎42	1♎45	11♉51	5♉13	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	23n14	12n44	3s13	19n56	2s57	17n26	2s17	1s53	0n 1	21n59	0n22	13n44	2s15	7s24	0s47	20n19	0s15	11s17	17s 5	1s22	1s20	11n33	12n27	0s38
T 2	23 10	15 14	3 57	20 13	2 45	17 43	2 16	2 6	0s 0	21 57	0 22	13 46	2 15	7 25	0 47	20 19	0 15	11 17	17 6	1 20	1 18	11 35	12 28	0 38
F 3	23 6	17 5	4 31	20 30	2 33	17 59	2 14	2 19	0 1	21 55	0 22	13 47	2 15	7 25	0 47	20 18	0 15	11 18	17 6	1 16	1 17	11 36	12 28	0 38
S 4	23 1	18 12	4 52	20 48	2 20	18 15	2 12	2 32	0 3	21 52	0 22	13 49	2 15	7 25	0 47	20 18	0 15	11 18	17 6	1 11	1 16	11 38	12 29	0 39
S 5	22 56	18 28	5 1	21 6	2 8	18 30	2 11	2 46	0 4	21 50	0 22	13 50	2 16	7 26	0 47	20 17	0 15	11 18	17 7	1 6	1 15	11 39	12 29	0 39
M 6	22 51	17 50	4 54	21 23	1 55	18 45	2 9	2 59	0 5	21 48	0 22	13 51	2 16	7 26	0 48	20 17	0 15	11 19	17 7	1 1	1 13	11 41	12 30	0 39
T 7	22 45	16 17	4 33	21 40	1 42	19 0	2 7	3 12	0 6	21 46	0 22	13 53	2 16	7 26	0 48	20 17	0 15	11 19	17 8	0 57	1 12	11 42	12 30	0 39
W 8	22 39	13 52	3 57	21 57	1 28	19 14	2 5	3 25	0 7	21 44	0 22	13 54	2 16	7 27	0 48	20 16	0 15	11 19	17 8	0 53	1 11	11 43	12 31	0 39
T 9	22 32	10 42	3 8	22 13	1 15	19 28	2 3	3 39	0 9	21 41	0 22	13 55	2 16	7 27	0 48	20 16	0 15	11 19	17 8	0 50	1 10	11 45	12 32	0 39
F 10	22 25	6 56	2 8	22 27	1 2	19 41	2 0	3 52	0 10	21 39	0 22	13 57	2 16	7 28	0 48	20 15	0 15	11 20	17 9	0 48	1 8	11 46	12 32	0 39
S 11	22 18	2 46	0 59	22 41	0 49	19 54	1 58	4 6	0 11	21 37	0 22	13 58	2 17	7 28	0 48	20 15	0 15	11 20	17 9	0 47	1 7	11 48	12 32	0 39
S 12	22 10	1s36	0n14	22 53	0 36	20 6	1 56	4 20	0 12	21 35	0 23	13 59	2 17	7 28	0 48	20 14	0 15	11 20	17 9	0 47	1 6	11 49	12 33	0 39
M13	22 2	5 56	1 27	23 3	0 23	20 18	1 54	4 33	0 13	21 32	0 23	14 0	2 17	7 29	0 48	20 14	0 15	11 21	17 10	0 47	1 4	11 51	12 33	0 40
T 14	21 53	9 59	2 35	23 12	0 10	20 30	1 51	4 47	0 14	21 30	0 23	14 1	2 17	7 29	0 48	20 14	0 15	11 21	17 10	0 47	1 3	11 52	12 34	0 40
W15	21 45	13 30	3 35	23 19	0n 2	20 41	1 49	5 1	0 15	21 28	0 23	14 3	2 17	7 30	0 48	20 13	0 15	11 21	17 10	0 46	1 2	11 53	12 34	0 40
T 16	21 35	16 12	4 21	23 23	0 13	20 51	1 46	5 14	0 16	21 25	0 23	14 4	2 17	7 30	0 48	20 13	0 15	11 22	17 11	0 44	1 1	11 55	12 35	0 40
F 17	21 26	17 54	4 51	23 25	0 25	21 1	1 44	5 28	0 17	21 23	0 23	14 5	2 18	7 31	0 48	20 12	0 15	11 22	17 11	0 41	0 59	11 56	12 35	0 40
S 18	21 16	18 27	5 3	23 25	0 35	21 11	1 41	5 42	0 18	21 20	0 23	14 6	2 18	7 31	0 48	20 12	0 15	11 23	17 12	0 38	0 58	11 58	12 35	0 40
S 19	21 5	17 49	4 55	23 22	0 45	21 20	1 39	5 56	0 19	21 18	0 23	14 7	2 18	7 32	0 48	20 11	0 15	11 23	17 12	0 34	0 57	11 59	12 36	0 40
M20	20 55	16 6	4 30	23 16	0 54	21 28	1 36	6 10	0 20	21 16	0 23	14 8	2 18	7 32	0 48	20 11	0 15	11 23	17 12	0 30	0 56	12 0	12 36	0 40
T 21	20 44	13 30	3 49	23 8	1 3	21 36	1 33	6 24	0 21	21 13	0 23	14 9	2 18	7 33	0 48	20 10	0 15	11 24	17 13	0 26	0 54	12 2	12 36	0 41
W22	20 32	10 15	2 57	22 57	1 11	21 44	1 30	6 38	0 22	21 11	0 23	14 10	2 19	7 34	0 48	20 10	0 15	11 24	17 13	0 23	0 53	12 3	12 36	0 41
T 23	20 20	6 35	1 56	22 43	1 18	21 50	1 28	6 52	0 23	21 8	0 24	14 11	2 19	7 34	0 48	20 10	0 15	11 25	17 13	0 22	0 52	12 5	12 37	0 41
F 24	20 8	2 43	0 52	22 27	1 24	21 57	1 25	7 6	0 24	21 6	0 24	14 12	2 19	7 35	0 48	20 9	0 15	11 25	17 14	0 21	0 51	12 6	12 37	0 41
S 25	19 56	1n10	0s14	22 8	1 30	22 2	1 22	7 20	0 25	21 3	0 24	14 12	2 19	7 36	0 48	20 9	0 15	11 25	17 14	0 21	0 49	12 7	12 37	0 41
S 26	19 43	4 56	1 18	21 46	1 34	22 7	1 19	7 34	0 26	21 0	0 24	14 13	2 19	7 36	0 48	20 8	0 15	11 26	17 14	0 21	0 48	12 9	12 37	0 41
M27	19 30	8 27	2 18	21 22	1 38	22 12	1 16	7 48	0 27	20 58	0 24	14 14	2 20	7 37	0 48	20 8	0 15	11 26	17 15	0 21	0 47	12 10	12 37	0 41
T 28	19 17	11 36	3 11	20 56	1 41	22 16	1 13	8 2	0 28	20 55	0 24	14 15	2 20	7 38	0 48	20 7	0 15	11 27	17 15	0 21	0 46	12 12	12 38	0 42
W29	19 3	14 17	3 56	20 28	1 44	22 19	1 10	8 16	0 29	20 53	0 24	14 16	2 20	7 38	0 48	20 7	0 15	11 27	17 15	0 21	0 44	12 13	12 38	0 42
T 30	18 49	16 23	4 32	19 58	1 45	22 22	1 7	8 30	0 30	20 50	0 24	14 16	2 20	7 39	0 48	20 6	0 15	11 28	17 16	0 19	0 43	12 14	12 38	0 42
F 31	18n34	17n46	4s56	19n26	1n46	22n24	1s 4	8s45	0s31	20n47	0n24	14n17	2s21	7s40	0s48	20n 6	0s15	11s28	17s16	0s17	0s42	12n16	12n38	0s42

Julian Day Number = 2300880.5, Delta T = 107.33 sec
Ecliptic obliquity = 23°29'25, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'00, Lahiri = 18°06'01Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

AUGUST 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	20 35 49	7♌55'04	27♊35	12♌11	3♋29	21♎44	29♋16	15♉35	12°R23	29♋19	11°R 7	0°R35	1♎41	11♉58	5♉14	S 1
S 2	20 39 46	8°52'35	10♋11	14°11	4°40	22°19	29°29	15°38	12♓21	29°21	11♈ 7	0♎26	1°38	12° 4	5°14	S 2
M 3	20 43 43	9°50'07	23° 5	16°10	5°51	22°55	29°42	15°40	12°19	29°24	11° 6	0°17	1°35	12°11	5°15	M 3
T 4	20 47 39	10°47'41	6♌17	18° 7	7° 2	23°31	29°55	15°43	12°17	29°26	11° 6	0° 9	1°32	12°18	5°15	T 4
W 5	20 51 36	11°45'15	19°44	20° 2	8°13	24° 7	0♌ 8	15°46	12°15	29°28	11° 5	0° 2	1°29	12°24	5°15	W 5
T 6	20 55 32	12°42'51	3♍25	21°56	9°24	24°43	0°21	15°48	12°13	29°30	11° 5	29♍57	1°26	12°31	5°16	T 6
F 7	20 59 29	13°40'27	17°16	23°49	10°35	25°20	0°35	15°51	12°11	29°32	11° 4	29°55	1°22	12°38	5°16	F 7
S 8	21 3 25	14°38'05	1♎16	25°40	11°47	25°56	0°48	15°53	12° 9	29°35	11° 4	29°D54	1°19	12°45	5°16	S 8
S 9	21 7 22	15°35'44	15°21	27°30	12°58	26°33	1° 1	15°55	12° 7	29°37	11° 3	29°55	1°16	12°51	5°16	S 9
M10	21 11 18	16°33'23	29°30	29°18	14° 9	27°10	1°14	15°57	12° 5	29°39	11° 2	29°56	1°13	12°58	5°R16	M10
T 11	21 15 15	17°31'04	13♎40	1♍ 5	15°21	27°47	1°27	15°59	12° 3	29°41	11° 2	29°R57	1°10	13° 5	5°16	T 11
W12	21 19 12	18°28'46	27°51	2°50	16°32	28°24	1°40	16° 1	12° 1	29°43	11° 1	29°56	1° 7	13°11	5°16	W12
T 13	21 23 8	19°26'29	12♐ 0	4°34	17°44	29° 1	1°53	16° 3	11°59	29°45	11° 1	29°54	1° 3	13°18	5°16	T 13
F 14	21 27 5	20°24'13	26° 5	6°16	18°56	29°39	2° 6	16° 5	11°57	29°47	11° 0	29°51	1° 0	13°25	5°16	F 14
S 15	21 31 1	21°21'58	10♑ 3	7°57	20° 8	0♎16	2°19	16° 6	11°54	29°49	10°59	29°46	0°57	13°31	5°15	S 15
S 16	21 34 58	22°19'44	23°52	9°37	21°19	0°54	2°32	16° 8	11°52	29°52	10°58	29°40	0°54	13°38	5°15	S 16
M17	21 38 54	23°17'31	7♒28	11°15	22°31	1°32	2°44	16° 9	11°50	29°54	10°58	29°34	0°51	13°45	5°15	M17
T 18	21 42 51	24°15'20	20°49	12°52	23°43	2° 9	2°57	16°10	11°48	29°56	10°57	29°29	0°47	13°51	5°14	T 18
W19	21 46 47	25°13'11	3♓53	14°27	24°55	2°47	3°10	16°12	11°46	29°58	10°56	29°25	0°44	13°58	5°14	W19
T 20	21 50 44	26°11'02	16°40	16° 1	26° 8	3°26	3°23	16°13	11°43	29°59	10°56	29°23	0°41	14° 5	5°13	T 20
F 21	21 54 40	27° 8'56	29°10	17°34	27°20	4° 4	3°36	16°14	11°41	0♌ 2	10°55	29°D22	0°38	14°11	5°13	F 21
S 22	21 58 37	28° 6'51	11♈25	19° 5	28°32	4°42	3°48	16°14	11°39	0° 4	10°54	29°23	0°35	14°18	5°12	S 22
S 23	22 2 34	29° 4'48	23°27	20°35	29°44	5°21	4° 1	16°15	11°36	0° 6	10°53	29°24	0°32	14°25	5°11	S 23
M24	22 6 30	0♍ 2'47	5♉22	22° 4	0♌57	6° 0	4°13	16°16	11°34	0° 8	10°52	29°26	0°28	14°31	5°10	M24
T 25	22 10 27	1° 0'47	17°13	23°31	2° 9	6°38	4°26	16°16	11°32	0°10	10°52	29°27	0°25	14°38	5°10	T 25
W26	22 14 23	1°58'50	29° 4	24°57	3°22	7°17	4°39	16°17	11°29	0°12	10°51	29°R28	0°22	14°45	5° 9	W26
T 27	22 18 20	2°56'54	11♊ 2	26°21	4°34	7°56	4°51	16°17	11°27	0°14	10°50	29°28	0°19	14°51	5° 8	T 27
F 28	22 22 16	3°55'01	23°10	27°44	5°47	8°35	5° 3	16°17	11°25	0°16	10°49	29°26	0°16	14°58	5° 7	F 28
S 29	22 26 13	4°53'09	5♋32	29° 6	7° 0	9°15	5°16	16°18	11°22	0°18	10°48	29°24	0°12	15° 5	5° 6	S 29
S 30	22 30 9	5°51'20	18°13	0♎26	8°13	9°54	5°28	16°R18	11°20	0°20	10°47	29°21	0° 9	15°12	5° 4	S 30
M31	22 34 6	6♍49'32	1♌15	1♎44	9♌25	10♏34	5♌40	16♉17	11♓17	0♌21	10♈46	29♍17	0♎ 6	15♉18	5♉ 3	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	18n20	18n22	5s 6	18n53	1n47	22n26	1s 1	8s59	0s32	20n45	0n24	14n18	2s21	7s40	0s48	20n 6	0s15	11s28	17s16	0s14	0s40	12n17	12n38	0s42
S 2	18 5	18 5	5 2	18 18	1 46	22 26	0 58	9 13	0 33	20 42	0 24	14 18	2 21	7 41	0 48	20 5	0 15	11 29	17 17	0 10	0 39	12 18	12 38	0 42
M 3	17 49	16 52	4 43	17 42	1 45	22 27	0 55	9 27	0 34	20 39	0 25	14 19	2 21	7 42	0 48	20 5	0 15	11 29	17 17	0 7	0 38	12 20	12 38	0 42
T 4	17 34	14 44	4 8	17 4	1 43	22 26	0 52	9 41	0 35	20 37	0 25	14 19	2 21	7 43	0 48	20 4	0 15	11 30	17 17	0 4	0 37	12 21	12 38	0 42
W 5	17 18	11 46	3 19	16 26	1 41	22 25	0 49	9 55	0 35	20 34	0 25	14 20	2 22	7 43	0 48	20 4	0 15	11 30	17 18	0 1	0 35	12 23	12 38	0 43
T 6	17 2	8 8	2 18	15 47	1 38	22 24	0 46	10 9	0 36	20 31	0 25	14 20	2 22	7 44	0 48	20 3	0 15	11 31	17 18	0n 1	0 34	12 24	12 38	0 43
F 7	16 45	4 0	1 8	15 6	1 35	22 21	0 43	10 24	0 37	20 29	0 25	14 21	2 22	7 45	0 48	20 3	0 15	11 31	17 18	0 2	0 33	12 25	12 38	0 43
S 8	16 29	0s23	0n 7	14 25	1 31	22 19	0 40	10 38	0 38	20 26	0 25	14 21	2 22	7 46	0 48	20 2	0 15	11 32	17 19	0 2	0 32	12 27	12 38	0 43
S 9	16 12	4 47	1 23	13 44	1 27	22 15	0 36	10 52	0 39	20 23	0 25	14 22	2 22	7 46	0 48	20 2	0 15	11 32	17 19	0 2	0 30	12 28	12 38	0 43
M10	15 54	8 55	2 33	13 2	1 23	22 11	0 33	11 6	0 40	20 20	0 25	14 22	2 23	7 47	0 48	20 2	0 15	11 33	17 19	0 2	0 29	12 29	12 38	0 43
T 11	15 37	12 33	3 35	12 19	1 18	22 6	0 30	11 20	0 40	20 18	0 25	14 23	2 23	7 48	0 48	20 1	0 15	11 33	17 20	0 1	0 28	12 31	12 37	0 43
W12	15 19	15 27	4 23	11 37	1 12	22 1	0 27	11 34	0 41	20 15	0 25	14 23	2 23	7 49	0 49	20 1	0 15	11 34	17 20	0 1	0 27	12 32	12 37	0 43
T 13	15 1	17 24	4 55	10 53	1 7	21 55	0 24	11 48	0 42	20 12	0 26	14 23	2 23	7 50	0 49	20 0	0 15	11 34	17 20	0 2	0 25	12 34	12 37	0 44
F 14	14 43	18 16	5 10	10 10	1 1	21 48	0 21	12 2	0 43	20 9	0 26	14 23	2 24	7 51	0 49	20 0	0 15	11 35	17 20	0 4	0 24	12 35	12 37	0 44
S 15	14 25	18 2	5 5	9 27	0 54	21 41	0 18	12 16	0 43	20 6	0 26	14 24	2 24	7 51	0 49	19 59	0 15	11 35	17 21	0 6	0 23	12 36	12 37	0 44
S 16	14 6	16 43	4 43	8 43	0 48	21 33	0 15	12 30	0 44	20 3	0 26	14 24	2 24	7 52	0 49	19 59	0 15	11 36	17 21	0 8	0 21	12 38	12 37	0 44
M17	13 47	14 29	4 6	7 59	0 41	21 25	0 12	12 44	0 45	20 1	0 26	14 24	2 24	7 53	0 49	19 58	0 15	11 36	17 21	0 10	0 20	12 39	12 36	0 44
T 18	13 28	11 30	3 15	7 16	0 34	21 16	0 9	12 58	0 46	19 58	0 26	14 24	2 25	7 54	0 49	19 58	0 15	11 37	17 22	0 12	0 19	12 40	12 36	0 44
W19	13 9	8 1	2 15	6 32	0 26	21 6	0 6	13 12	0 46	19 55	0 26	14 24	2 25	7 55	0 49	19 58	0 15	11 38	17 22	0 14	0 18	12 42	12 36	0 44
T 20	12 49	4 13	1 9	5 49	0 19	20 55	0 3	13 25	0 47	19 52	0 26	14 24	2 25	7 56	0 49	19 57	0 15	11 38	17 22	0 15	0 16	12 43	12 35	0 44
F 21	12 29	0 19	0 1	5 6	0 11	20 45	0n 0	13 39	0 48	19 49	0 26	14 25	2 25	7 57	0 49	19 57	0 15	11 39	17 22	0 15	0 15	12 44	12 35	0 45
S 22	12 9	3n31	1s 6	4 23	0 3	20 33	0 3	13 53	0 49	19 46	0 27	14 25	2 25	7 58	0 49	19 56	0 15	11 39	17 23	0 15	0 14	12 46	12 35	0 45
S 23	11 49	7 9	2 8	3 40	0s 5	20 21	0 6	14 6	0 49	19 44	0 27	14 25	2 26	7 59	0 49	19 56	0 15	11 40	17 23	0 14	0 13	12 47	12 34	0 45
M24	11 29	10 26	3 5	2 58	0 13	20 8	0 9	14 20	0 50	19 41	0 27	14 25	2 26	7 59	0 49	19 55	0 15	11 40	17 23	0 14	0 11	12 48	12 34	0 45
T 25	11 8	13 17	3 53	2 15	0 21	19 55	0 12	14 33	0 51	19 38	0 27	14 24	2 26	8 0	0 49	19 55	0 15	11 41	17 23	0 13	0 10	12 50	12 34	0 45
W26	10 48	15 35	4 31	1 34	0 29	19 41	0 15	14 47	0 51	19 35	0 27	14 24	2 26	8 1	0 49	19 55	0 15	11 41	17 24	0 13	0 9	12 51	12 33	0 45
T 27	10 27	17 13	4 58	0 52	0 38	19 27	0 18	15 0	0 52	19 32	0 27	14 24	2 27	8 2	0 49	19 54	0 15	11 42	17 24	0 13	0 8	12 52	12 33	0 45
F 28	10 6	18 7	5 13	0 12	0 46	19 12	0 20	15 14	0 53	19 29	0 27	14 24	2 27	8 3	0 49	19 54	0 15	11 42	17 24	0 13	0 6	12 54	12 32	0 46
S 29	9 44	18 10	5 13	0s29	0 55	18 56	0 23	15 27	0 53	19 26	0 27	14 24	2 27	8 4	0 49	19 53	0 15	11 43	17 24	0 14	0 5	12 55	12 32	0 46
S 30	9 23	17 20	4 58	1 9	1 4	18 40	0 26	15 40	0 54	19 23	0 28	14 24	2 27	8 5	0 49	19 53	0 15	11 43	17 24	0 16	0 4	12 56	12 31	0 46
M31	9n 1	15n35	4s27	1s48	1s12	18n23	0n28	15s53	0s55	19n20	0n28	14n23	2s27	8s 6	0s49	19n53	0s15	11s44	17s25	0n17	0s 2	12n58	12n31	0s46

Julian Day Number = 2300911.5, Delta T = 107.19 sec
Ecliptic obliquity = 23°29'25, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'05, Lahiri = 18°06'05Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

SEPTEMBER 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 38 3	7♍47'46	14♌39	3♎ 1	10♌38	11♏13	5♌53	16°R17	11°R15	0♌23	10°R45	29°R14	0♎ 3	15♉25	5°R 2	T 1
W 2	22 41 59	8°46'02	28°23	4°16	11°51	11°53	6° 5	16♉17	11♓13	0°25	10♈44	29♍12	29♍59	15°32	5♉ 1	W 2
T 3	22 45 56	9°44'20	12♍26	5°30	13° 4	12°33	6°17	16°16	11°10	0°27	10°43	29°10	29°57	15°38	4°59	T 3
F 4	22 49 52	10°42'40	26°43	6°41	14°17	13°13	6°29	16°16	11° 8	0°29	10°42	29°D 9	29°53	15°45	4°58	F 4
S 5	22 53 49	11°41'01	11♎10	7°51	15°31	13°53	6°41	16°15	11° 5	0°31	10°41	29° 9	29°50	15°52	4°57	S 5
S 6	22 57 45	12°39'24	25°40	8°59	16°44	14°33	6°53	16°15	11° 3	0°32	10°40	29°10	29°47	15°58	4°55	S 6
M 7	23 1 42	13°37'49	10♏10	10° 5	17°57	15°13	7° 5	16°14	11° 1	0°34	10°39	29°12	29°44	16° 5	4°54	M 7
T 8	23 5 38	14°36'15	24°34	11° 8	19°10	15°54	7°17	16°13	10°58	0°36	10°38	29°13	29°41	16°12	4°52	T 8
W 9	23 9 35	15°34'43	8♐49	12° 9	20°24	16°34	7°28	16°12	10°56	0°37	10°37	29°13	29°38	16°18	4°50	W 9
T 10	23 13 32	16°33'13	22°54	13° 8	21°37	17°15	7°40	16°10	10°53	0°39	10°36	29°R13	29°34	16°25	4°49	T 10
F 11	23 17 28	17°31'44	6♑46	14° 4	22°51	17°56	7°52	16° 9	10°51	0°41	10°35	29°13	29°31	16°32	4°47	F 11
S 12	23 21 25	18°30'17	20°24	14°57	24° 4	18°37	8° 3	16° 8	10°49	0°42	10°34	29°12	29°28	16°38	4°45	S 12
S 13	23 25 21	19°28'51	3♒49	15°46	25°18	19°18	8°15	16° 6	10°46	0°44	10°33	29°10	29°25	16°45	4°43	S 13
M14	23 29 18	20°27'27	17° 0	16°33	26°31	19°59	8°26	16° 5	10°44	0°46	10°32	29° 9	29°22	16°52	4°41	M14
T 15	23 33 14	21°26'05	29°57	17°16	27°45	20°40	8°37	16° 3	10°42	0°47	10°31	29° 8	29°18	16°58	4°39	T 15
W16	23 37 11	22°24'45	12♓40	17°55	28°59	21°21	8°49	16° 1	10°39	0°49	10°30	29° 8	29°15	17° 5	4°37	W16
T 17	23 41 7	23°23'27	25°10	18°30	0♍12	22° 2	9° 0	15°59	10°37	0°50	10°29	29°D 7	29°12	17°12	4°35	T 17
F 18	23 45 4	24°22'10	7♈28	19° 0	1°26	22°44	9°11	15°57	10°35	0°52	10°28	29° 7	29° 9	17°19	4°33	F 18
S 19	23 49 0	25°20'56	19°35	19°25	2°40	23°25	9°22	15°55	10°32	0°53	10°27	29° 8	29° 6	17°25	4°31	S 19
S 20	23 52 57	26°19'44	1♉34	19°46	3°54	24° 7	9°33	15°53	10°30	0°55	10°25	29° 8	29° 3	17°32	4°29	S 20
M21	23 56 54	27°18'34	13°27	20° 0	5° 8	24°49	9°44	15°51	10°28	0°56	10°24	29° 8	28°59	17°39	4°27	M21
T 22	0 0 50	28°17'26	25°17	20° 8	6°22	25°31	9°55	15°48	10°25	0°57	10°23	29° 8	28°56	17°45	4°24	T 22
W23	0 4 47	29°16'21	7♊ 9	20°R10	7°36	26°12	10° 5	15°46	10°23	0°59	10°22	29°R 8	28°53	17°52	4°22	W23
T 24	0 8 43	0♎15'18	19° 5	20° 5	8°50	26°55	10°16	15°43	10°21	1° 0	10°21	29° 8	28°50	17°59	4°20	T 24
F 25	0 12 40	1°14'17	1♋11	19°53	10° 4	27°37	10°26	15°41	10°19	1° 1	10°20	29°D 8	28°47	18° 5	4°17	F 25
S 26	0 16 36	2°13'18	13°31	19°33	11°19	28°19	10°37	15°38	10°17	1° 3	10°19	29° 8	28°44	18°12	4°15	S 26
S 27	0 20 33	3°12'22	26°10	19° 6	12°33	29° 1	10°47	15°35	10°14	1° 4	10°17	29° 9	28°40	18°19	4°13	S 27
M28	0 24 29	4°11'28	9♌10	18°31	13°47	29°44	10°58	15°32	10°12	1° 5	10°16	29° 9	28°37	18°25	4°10	M28
T 29	0 28 26	5°10'36	22°36	17°48	15° 1	0♐26	11° 8	15°29	10°10	1° 6	10°15	29°10	28°34	18°32	4° 7	T 29
W30	0 32 23	6♎ 9'47	6♍27	16♎58	16♍16	1♐ 9	11♌18	15♉26	10♓ 8	1♌ 8	10♈14	29♍10	28♍31	18♉39	4♉ 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	8n40	12n57	3s41	2s26	1s21	18n 6	0n31	16s 6	0s55	19n18	0n28	14n23	2s28	8s 7	0s49	19n52	0s15	11s45	17s25	0n18	0s 1	12n59	12n30	0s46	T 1
W 2	8 18	9 32	2 42	3 4	1 30	17 49	0 34	16 19	0 56	19 15	0 28	14 23	2 28	8 8	0 49	19 52	0 15	11 45	17 25	0 19	0n 0	13 0	12 30	0 46	W 2
T 3	7 56	5 30	1 31	3 41	1 38	17 30	0 36	16 32	0 56	19 12	0 28	14 23	2 28	8 9	0 49	19 51	0 15	11 46	17 25	0 20	0 1	13 2	12 29	0 46	T 3
F 4	7 34	1 6	0 13	4 18	1 47	17 12	0 39	16 45	0 57	19 9	0 28	14 22	2 28	8 9	0 49	19 51	0 15	11 46	17 25	0 20	0 3	13 3	12 29	0 46	F 4
S 5	7 12	3s25	1n 6	4 53	1 55	16 53	0 41	16 57	0 58	19 6	0 28	14 22	2 29	8 10	0 49	19 51	0 15	11 47	17 26	0 20	0 4	13 4	12 28	0 47	S 5
S 6	6 49	7 45	2 21	5 28	2 4	16 33	0 44	17 10	0 58	19 3	0 28	14 21	2 29	8 11	0 49	19 50	0 15	11 47	17 26	0 20	0 5	13 6	12 27	0 47	S 6
M 7	6 27	11 36	3 28	6 2	2 12	16 13	0 46	17 22	0 59	19 0	0 29	14 21	2 29	8 12	0 49	19 50	0 15	11 48	17 26	0 19	0 6	13 7	12 27	0 47	M 7
T 8	6 4	14 44	4 21	6 34	2 21	15 52	0 48	17 35	0 59	18 57	0 29	14 20	2 29	8 13	0 49	19 50	0 15	11 48	17 26	0 19	0 8	13 8	12 26	0 47	T 8
W 9	5 42	16 56	4 57	7 6	2 29	15 31	0 50	17 47	1 0	18 54	0 29	14 20	2 29	8 14	0 49	19 49	0 15	11 49	17 26	0 19	0 9	13 9	12 25	0 47	W 9
T 10	5 19	18 4	5 15	7 36	2 37	15 10	0 53	17 59	1 0	18 52	0 29	14 19	2 30	8 15	0 49	19 49	0 15	11 49	17 27	0 19	0 10	13 11	12 25	0 47	T 10
F 11	4 56	18 5	5 14	8 5	2 44	14 48	0 55	18 11	1 1	18 49	0 29	14 19	2 30	8 16	0 49	19 49	0 15	11 50	17 27	0 19	0 11	13 12	12 24	0 47	F 11
S 12	4 33	17 4	4 55	8 32	2 52	14 25	0 57	18 23	1 1	18 46	0 29	14 18	2 30	8 17	0 49	19 48	0 15	11 51	17 27	0 19	0 13	13 13	12 23	0 47	S 12
S 13	4 10	15 7	4 21	8 58	2 59	14 3	0 59	18 35	1 2	18 43	0 29	14 18	2 30	8 18	0 49	19 48	0 15	11 51	17 27	0 20	0 14	13 15	12 22	0 48	S 13
M14	3 47	12 23	3 33	9 23	3 6	13 39	1 1	18 46	1 2	18 40	0 30	14 17	2 30	8 18	0 49	19 47	0 15	11 52	17 27	0 20	0 15	13 16	12 22	0 48	M14
T 15	3 24	9 6	2 35	9 46	3 13	13 16	1 3	18 58	1 3	18 37	0 30	14 16	2 31	8 19	0 49	19 47	0 15	11 52	17 27	0 21	0 17	13 17	12 21	0 48	T 15
W16	3 1	5 26	1 30	10 6	3 19	12 52	1 5	19 9	1 3	18 34	0 30	14 16	2 31	8 20	0 49	19 47	0 15	11 53	17 27	0 21	0 18	13 19	12 20	0 48	W16
T 17	2 38	1 35	0 22	10 25	3 25	12 28	1 7	19 21	1 4	18 32	0 30	14 15	2 31	8 21	0 49	19 47	0 15	11 53	17 27	0 21	0 19	13 20	12 19	0 48	T 17
F 18	2 14	2n16	0s46	10 41	3 30	12 3	1 8	19 32	1 4	18 29	0 30	14 14	2 31	8 22	0 49	19 46	0 15	11 54	17 28	0 21	0 20	13 21	12 19	0 48	F 18
S 19	1 51	5 58	1 51	10 55	3 34	11 38	1 10	19 43	1 5	18 26	0 30	14 13	2 31	8 23	0 49	19 46	0 15	11 54	17 28	0 21	0 22	13 22	12 18	0 48	S 19
S 20	1 28	9 23	2 51	11 6	3 38	11 13	1 12	19 54	1 5	18 23	0 30	14 12	2 32	8 24	0 49	19 46	0 15	11 55	17 28	0 21	0 23	13 24	12 17	0 48	S 20
M21	1 4	12 23	3 42	11 14	3 41	10 47	1 13	20 4	1 6	18 21	0 31	14 12	2 32	8 25	0 49	19 45	0 15	11 55	17 28	0 21	0 24	13 25	12 16	0 49	M21
T 22	0 41	14 51	4 24	11 20	3 43	10 21	1 15	20 15	1 6	18 18	0 31	14 11	2 32	8 25	0 49	19 45	0 15	11 56	17 28	0 21	0 25	13 26	12 15	0 49	T 22
W23	0 17	16 42	4 55	11 21	3 44	9 55	1 16	20 25	1 7	18 15	0 31	14 10	2 32	8 26	0 49	19 45	0 15	11 56	17 28	0 21	0 27	13 28	12 14	0 49	W23
T 24	0s 6	17 51	5 13	11 19	3 44	9 28	1 17	20 36	1 7	18 12	0 31	14 9	2 32	8 27	0 49	19 44	0 15	11 57	17 28	0 21	0 28	13 29	12 13	0 49	T 24
F 25	0 30	18 12	5 17	11 13	3 43	9 1	1 19	20 46	1 7	18 10	0 31	14 8	2 33	8 28	0 49	19 44	0 15	11 57	17 28	0 21	0 29	13 30	12 12	0 49	F 25
S 26	0 53	17 42	5 8	11 3	3 40	8 34	1 20	20 56	1 8	18 7	0 31	14 7	2 33	8 29	0 49	19 44	0 15	11 58	17 28	0 21	0 30	13 31	12 11	0 49	S 26
S 27	1 17	16 20	4 43	10 49	3 36	8 7	1 21	21 6	1 8	18 4	0 32	14 6	2 33	8 30	0 49	19 44	0 15	11 58	17 28	0 20	0 32	13 33	12 11	0 49	S 27
M28	1 40	14 5	4 3	10 30	3 30	7 39	1 22	21 15	1 9	18 2	0 32	14 5	2 33	8 30	0 48	19 43	0 15	11 59	17 28	0 20	0 33	13 34	12 10	0 49	M28
T 29	2 4	11 2	3 9	10 6	3 22	7 11	1 23	21 25	1 9	17 59	0 32	14 4	2 33	8 31	0 48	19 43	0 15	11 59	17 28	0 20	0 34	13 35	12 9	0 50	T 29
W30	2s27	7n16	2s 3	9s38	3s12	6n43	1n24	21s34	1s 9	17n56	0n32	14n 3	2s33	8s32	0s48	19n43	0s15	12s 0	17s28	0n20	0n36	13n36	12n 8	0s50	W30

Julian Day Number = 2300942.5, Delta T = 107.05 sec
Ecliptic obliquity = 23°29'26, Nutation = 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'09, Lahiri = 18°06'09Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

OCTOBER 1587 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	0 36 19	7♎ 9'00	20♍42	16°R 1	17♍30	1♐51	11♌28	15°R23	10°R 6	1♌ 9	10°R13	29♍11	28♍28	18♉46	4°R 2	T 1
F 2	0 40 16	8° 8'15	5♎17	14♎59	18°45	2°34	11°38	15♉19	10♓ 4	1°10	10♈12	29°R11	28°24	18°52	4♉ 0	F 2
S 3	0 44 12	9° 7'31	20° 7	13°52	19°59	3°17	11°47	15°16	10° 2	1°11	10°10	29°10	28°21	18°59	3°57	S 3
S 4	0 48 9	10° 6'50	5♏ 4	12°41	21°14	4° 0	11°57	15°13	10° 0	1°12	10° 9	29° 9	28°18	19° 6	3°54	S 4
M 5	0 52 5	11° 6'11	19°59	11°30	22°28	4°43	12° 7	15° 9	9°58	1°13	10° 8	29° 8	28°15	19°12	3°52	M 5
T 6	0 56 2	12° 5'34	4♐46	10°19	23°43	5°26	12°16	15° 5	9°56	1°14	10° 7	29° 6	28°12	19°19	3°49	T 6
W 7	0 59 58	13° 4'59	19°16	9°11	24°57	6° 9	12°25	15° 2	9°54	1°15	10° 6	29° 5	28° 9	19°26	3°46	W 7
T 8	1 3 55	14° 4'25	3♑28	8° 7	26°12	6°53	12°35	14°58	9°52	1°16	10° 5	29° 4	28° 5	19°32	3°43	T 8
F 9	1 7 52	15° 3'54	17°18	7°10	27°27	7°36	12°44	14°54	9°51	1°17	10° 4	29°D 4	28° 2	19°39	3°41	F 9
S 10	1 11 48	16° 3'24	0♒47	6°21	28°42	8°19	12°53	14°50	9°49	1°18	10° 2	29° 4	27°59	19°46	3°38	S 10
S 11	1 15 45	17° 2'55	13°57	5°41	29°56	9° 3	13° 2	14°46	9°47	1°18	10° 1	29° 5	27°56	19°52	3°35	S 11
M12	1 19 41	18° 2'29	26°49	5°12	1♎11	9°47	13°10	14°42	9°45	1°19	10° 0	29° 7	27°53	19°59	3°32	M12
T 13	1 23 38	19° 2'04	9♓26	4°54	2°26	10°30	13°19	14°38	9°44	1°20	9°59	29° 8	27°49	20° 6	3°29	T 13
W14	1 27 34	20° 1'41	21°50	4°D47	3°41	11°14	13°28	14°34	9°42	1°21	9°58	29° 9	27°46	20°13	3°26	W14
T 15	1 31 31	21° 1'19	4♈ 4	4°51	4°56	11°58	13°36	14°30	9°40	1°21	9°57	29°R 9	27°43	20°19	3°23	T 15
F 16	1 35 27	22° 1'00	16°10	5° 6	6°10	12°42	13°44	14°25	9°39	1°22	9°55	29° 8	27°40	20°26	3°20	F 16
S 17	1 39 24	23° 0'43	28° 9	5°31	7°25	13°26	13°52	14°21	9°37	1°23	9°54	29° 6	27°37	20°33	3°17	S 17
S 18	1 43 20	24° 0'28	10♉ 3	6° 5	8°40	14°10	14° 0	14°17	9°36	1°23	9°53	29° 3	27°34	20°39	3°14	S 18
M19	1 47 17	25° 0'15	21°54	6°49	9°55	14°54	14° 8	14°12	9°34	1°24	9°52	28°58	27°30	20°46	3°11	M19
T 20	1 51 14	26° 0'04	3♊45	7°40	11°10	15°38	14°16	14° 8	9°33	1°24	9°51	28°53	27°27	20°53	3° 8	T 20
W21	1 55 10	26°59'55	15°37	8°39	12°25	16°23	14°24	14° 3	9°31	1°25	9°50	28°49	27°24	20°59	3° 5	W21
T 22	1 59 7	27°59'48	27°33	9°44	13°40	17° 7	14°31	13°59	9°30	1°25	9°49	28°45	27°21	21° 6	3° 2	T 22
F 23	2 3 3	28°59'44	9♋38	10°54	14°55	17°51	14°38	13°54	9°29	1°26	9°48	28°41	27°18	21°13	2°59	F 23
S 24	2 7 0	29°59'42	21°55	12°10	16°10	18°36	14°46	13°50	9°27	1°26	9°47	28°40	27°15	21°19	2°56	S 24
S 25	2 10 56	0♏59'41	4♌28	13°29	17°26	19°21	14°53	13°45	9°26	1°27	9°46	28°D39	27°11	21°26	2°53	S 25
M26	2 14 53	1°59'43	17°21	14°51	18°41	20° 5	15° 0	13°40	9°25	1°27	9°44	28°40	27° 8	21°33	2°50	M26
T 27	2 18 49	2°59'48	0♍40	16°17	19°56	20°50	15° 7	13°35	9°24	1°27	9°43	28°42	27° 5	21°40	2°47	T 27
W28	2 22 46	3°59'54	14°25	17°45	21°11	21°35	15°13	13°31	9°23	1°28	9°42	28°43	27° 2	21°46	2°44	W28
T 29	2 26 43	5° 0'02	28°38	19°15	22°26	22°20	15°20	13°26	9°22	1°28	9°41	28°R44	26°59	21°53	2°41	T 29
F 30	2 30 39	6° 0'13	13♎17	20°47	23°42	23° 4	15°26	13°21	9°21	1°28	9°40	28°43	26°55	22° 0	2°38	F 30
S 31	2 34 36	7♏ 0'25	28♎17	22♎20	24♎57	23♐49	15♌32	13♉16	9♓20	1♌28	9♈39	28♍41	26♍52	22♉ 6	2♉35	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	2s51	2n59	0s47	9s 6	3s 1	6n15	1n25	21s43	1s10	17n54	0n32	14n 2	2s33	8s33	0s48	19n43	0s15	12s 0	17s28	0n20	0n37	13n38	12n 7	0s50
F 2	3 14	1s35	0n34	8 29	2 47	5 47	1 26	21 52	1 10	17 51	0 32	14 1	2 34	8 33	0 48	19 42	0 15	12 1	17 28	0 20	0 38	13 39	12 6	0 50
S 3	3 37	6 8	1 54	7 49	2 32	5 18	1 27	22 1	1 11	17 49	0 32	14 0	2 34	8 34	0 48	19 42	0 15	12 1	17 28	0 20	0 39	13 40	12 5	0 50
S 4	4 1	10 19	3 6	7 6	2 15	4 49	1 27	22 9	1 11	17 46	0 33	13 59	2 34	8 35	0 48	19 42	0 15	12 1	17 28	0 20	0 41	13 41	12 4	0 50
M 5	4 24	13 50	4 6	6 21	1 57	4 20	1 28	22 18	1 11	17 44	0 33	13 58	2 34	8 36	0 48	19 42	0 15	12 2	17 28	0 21	0 42	13 43	12 3	0 50
T 6	4 47	16 24	4 49	5 35	1 38	3 51	1 29	22 26	1 12	17 41	0 33	13 56	2 34	8 36	0 48	19 41	0 15	12 2	17 28	0 21	0 43	13 44	12 2	0 50
W 7	5 11	17 52	5 12	4 50	1 17	3 22	1 29	22 34	1 12	17 39	0 33	13 55	2 34	8 37	0 48	19 41	0 15	12 3	17 28	0 22	0 44	13 45	12 1	0 50
T 8	5 34	18 11	5 16	4 6	0 57	2 53	1 29	22 41	1 12	17 36	0 33	13 54	2 34	8 38	0 48	19 41	0 15	12 3	17 28	0 22	0 46	13 46	12 0	0 51
F 9	5 57	17 24	5 1	3 24	0 36	2 23	1 30	22 49	1 13	17 34	0 34	13 53	2 35	8 38	0 48	19 41	0 15	12 4	17 28	0 22	0 47	13 48	11 58	0 51
S 10	6 20	15 38	4 29	2 46	0 16	1 54	1 30	22 56	1 13	17 31	0 34	13 52	2 35	8 39	0 48	19 41	0 15	12 4	17 28	0 22	0 48	13 49	11 57	0 51
S 11	6 43	13 5	3 45	2 13	0n 3	1 24	1 30	23 3	1 13	17 29	0 34	13 50	2 35	8 40	0 48	19 40	0 15	12 4	17 28	0 22	0 49	13 50	11 56	0 51
M12	7 5	9 57	2 49	1 44	0 22	0 55	1 30	23 10	1 13	17 27	0 34	13 49	2 35	8 40	0 48	19 40	0 15	12 5	17 28	0 21	0 51	13 51	11 55	0 51
T 13	7 28	6 24	1 47	1 21	0 39	0 25	1 30	23 17	1 14	17 24	0 34	13 48	2 35	8 41	0 48	19 40	0 15	12 5	17 28	0 21	0 52	13 53	11 54	0 51
W14	7 51	2 38	0 40	1 4	0 55	0s 5	1 30	23 24	1 14	17 22	0 34	13 46	2 35	8 42	0 48	19 40	0 15	12 6	17 28	0 20	0 53	13 54	11 53	0 51
T 15	8 13	1n12	0s27	0 53	1 9	0 35	1 30	23 30	1 14	17 20	0 35	13 45	2 35	8 42	0 48	19 40	0 15	12 6	17 28	0 20	0 55	13 55	11 52	0 51
F 16	8 36	4 57	1 32	0 47	1 21	1 5	1 30	23 36	1 14	17 18	0 35	13 44	2 35	8 43	0 48	19 40	0 15	12 6	17 28	0 21	0 56	13 56	11 51	0 51
S 17	8 58	8 28	2 33	0 47	1 32	1 35	1 30	23 42	1 15	17 15	0 35	13 42	2 35	8 43	0 48	19 39	0 15	12 7	17 28	0 22	0 57	13 58	11 50	0 52
S 18	9 20	11 36	3 26	0 52	1 42	2 4	1 30	23 47	1 15	17 13	0 35	13 41	2 35	8 44	0 48	19 39	0 15	12 7	17 28	0 23	0 58	13 59	11 49	0 52
M19	9 42	14 15	4 10	1 2	1 49	2 34	1 29	23 53	1 15	17 11	0 35	13 40	2 35	8 44	0 48	19 39	0 15	12 7	17 28	0 25	1 0	14 0	11 48	0 52
T 20	10 4	16 18	4 44	1 17	1 56	3 4	1 29	23 58	1 15	17 9	0 36	13 38	2 35	8 45	0 48	19 39	0 15	12 8	17 28	0 27	1 1	14 1	11 46	0 52
W21	10 26	17 40	5 5	1 36	2 0	3 34	1 28	24 3	1 16	17 7	0 36	13 37	2 35	8 45	0 48	19 39	0 15	12 8	17 27	0 28	1 2	14 2	11 45	0 52
T 22	10 47	18 15	5 13	1 58	2 4	4 3	1 28	24 7	1 16	17 5	0 36	13 36	2 36	8 46	0 48	19 39	0 15	12 8	17 27	0 30	1 3	14 4	11 44	0 52
F 23	11 8	18 2	5 7	2 23	2 6	4 33	1 27	24 12	1 16	17 3	0 36	13 34	2 36	8 46	0 48	19 39	0 15	12 9	17 27	0 31	1 5	14 5	11 43	0 52
S 24	11 30	16 58	4 48	2 51	2 8	5 3	1 26	24 16	1 16	17 1	0 36	13 33	2 36	8 47	0 48	19 39	0 15	12 9	17 27	0 32	1 6	14 6	11 42	0 52
S 25	11 51	15 4	4 14	3 22	2 8	5 32	1 26	24 20	1 16	16 59	0 37	13 31	2 36	8 47	0 48	19 39	0 15	12 9	17 27	0 32	1 7	14 7	11 41	0 52
M26	12 12	12 23	3 27	3 55	2 7	6 2	1 25	24 23	1 16	16 57	0 37	13 30	2 36	8 48	0 48	19 39	0 15	12 10	17 27	0 32	1 8	14 9	11 40	0 52
T 27	12 32	8 58	2 27	4 29	2 6	6 31	1 24	24 27	1 17	16 56	0 37	13 29	2 36	8 48	0 48	19 39	0 15	12 10	17 27	0 31	1 10	14 10	11 39	0 52
W28	12 53	4 58	1 17	5 4	2 4	7 0	1 23	24 30	1 17	16 54	0 37	13 27	2 36	8 48	0 48	19 38	0 15	12 10	17 26	0 31	1 11	14 11	11 37	0 53
T 29	13 13	0 32	0 1	5 41	2 1	7 29	1 22	24 33	1 17	16 52	0 37	13 26	2 36	8 49	0 48	19 38	0 15	12 10	17 26	0 30	1 12	14 12	11 36	0 53
F 30	13 33	4s 3	1n18	6 19	1 58	7 58	1 21	24 35	1 17	16 50	0 38	13 24	2 36	8 49	0 48	19 38	0 15	12 11	17 26	0 31	1 14	14 13	11 35	0 53
S 31	13s53	8s29	2n34	6s57	1n54	8s26	1n20	24s38	1s17	16n49	0n38	13n23	2s36	8s49	0s48	19n38	0s15	12s11	17s26	0n32	1n15	14n15	11n34	0s53

Julian Day Number = 2300972.5, Delta T = 106.92 sec
Ecliptic obliquity = 23°29'26, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'13, Lahiri = 18°06'13Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

NOVEMBER 1587 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	2 38 32	8♏ 0'39	13♏30	23♎54	26♎12	24♐35	15♌38	13°R11	9°R19	1♌28	9°R38	28°R36	26♍49	22♉13	2°R32	S 1
M 2	2 42 29	9° 0'55	28°45	25°29	27°27	25°20	15°44	13♉ 7	9♓18	1°28	9♈37	28♍30	26°46	22°20	2♉29	M 2
T 3	2 46 25	10° 1'13	13♐53	27° 4	28°43	26° 5	15°50	13° 2	9°17	1°28	9°36	28°24	26°43	22°26	2°26	T 3
W 4	2 50 22	11° 1'33	28°43	28°40	29°58	26°50	15°55	12°57	9°16	1°R29	9°35	28°18	26°40	22°33	2°23	W 4
T 5	2 54 18	12° 1'54	13♑ 9	0♏17	1♏13	27°35	16° 1	12°52	9°15	1°28	9°34	28°13	26°36	22°40	2°20	T 5
F 6	2 58 15	13° 2'16	27° 8	1°53	2°29	28°21	16° 6	12°47	9°15	1°28	9°33	28°10	26°33	22°47	2°17	F 6
S 7	3 2 12	14° 2'39	10♒40	3°30	3°44	29° 6	16°11	12°42	9°14	1°28	9°32	28°D 8	26°30	22°53	2°14	S 7
S 8	3 6 8	15° 3'04	23°45	5° 6	4°59	29°52	16°16	12°37	9°14	1°28	9°32	28° 9	26°27	23° 0	2°11	S 8
M 9	3 10 5	16° 3'31	6♓29	6°43	6°15	0♑37	16°21	12°32	9°13	1°28	9°31	28°10	26°24	23° 7	2° 8	M 9
T 10	3 14 1	17° 3'58	18°55	8°19	7°30	1°23	16°25	12°27	9°13	1°28	9°30	28°11	26°21	23°13	2° 5	T 10
W11	3 17 58	18° 4'27	1♈ 7	9°56	8°45	2° 9	16°30	12°23	9°12	1°28	9°29	28°R11	26°17	23°20	2° 2	W11
T 12	3 21 54	19° 4'58	13°10	11°32	10° 1	2°54	16°34	12°18	9°12	1°27	9°28	28°10	26°14	23°27	1°59	T 12
F 13	3 25 51	20° 5'29	25° 6	13° 8	11°16	3°40	16°38	12°13	9°11	1°27	9°27	28° 6	26°11	23°33	1°56	F 13
S 14	3 29 47	21° 6'03	6♉58	14°44	12°32	4°26	16°42	12° 8	9°11	1°27	9°26	28° 0	26° 8	23°40	1°54	S 14
S 15	3 33 44	22° 6'37	18°49	16°20	13°47	5°12	16°45	12° 3	9°11	1°27	9°26	27°52	26° 5	23°47	1°51	S 15
M16	3 37 41	23° 7'14	0♊41	17°56	15° 2	5°58	16°49	11°59	9°11	1°26	9°25	27°41	26° 1	23°54	1°48	M16
T 17	3 41 37	24° 7'51	12°34	19°31	16°18	6°44	16°52	11°54	9°11	1°26	9°24	27°30	25°58	24° 0	1°45	T 17
W18	3 45 34	25° 8'30	24°30	21° 7	17°33	7°30	16°55	11°49	9°11	1°25	9°23	27°18	25°55	24° 7	1°42	W18
T 19	3 49 30	26° 9'11	6♋31	22°42	18°49	8°16	16°58	11°45	9°D10	1°25	9°22	27° 8	25°52	24°14	1°40	T 19
F 20	3 53 27	27° 9'53	18°39	24°17	20° 4	9° 2	17° 1	11°40	9°10	1°24	9°22	26°59	25°49	24°20	1°37	F 20
S 21	3 57 23	28°10'37	0♌57	25°51	21°20	9°48	17° 4	11°35	9°11	1°24	9°21	26°53	25°46	24°27	1°34	S 21
S 22	4 1 20	29°11'23	13°29	27°26	22°35	10°34	17° 6	11°31	9°11	1°23	9°20	26°49	25°42	24°34	1°32	S 22
M23	4 5 16	0♐12'09	26°17	29° 1	23°51	11°20	17° 8	11°26	9°11	1°23	9°20	26°D48	25°39	24°40	1°29	M23
T 24	4 9 13	1°12'58	9♍26	0♐35	25° 6	12° 7	17°10	11°22	9°11	1°22	9°19	26°48	25°36	24°47	1°27	T 24
W25	4 13 10	2°13'48	23° 0	2°10	26°22	12°53	17°12	11°18	9°11	1°21	9°18	26°R49	25°33	24°54	1°24	W25
T 26	4 17 6	3°14'39	7♎ 0	3°44	27°37	13°39	17°14	11°13	9°12	1°21	9°18	26°48	25°30	25° 1	1°22	T 26
F 27	4 21 3	4°15'32	21°27	5°18	28°53	14°26	17°15	11° 9	9°12	1°20	9°17	26°46	25°26	25° 7	1°19	F 27
S 28	4 24 59	5°16'26	6♏19	6°52	0♐ 8	15°12	17°17	11° 5	9°13	1°19	9°17	26°41	25°23	25°14	1°17	S 28
S 29	4 28 56	6°17'22	21°29	8°27	1°24	15°59	17°18	11° 0	9°13	1°18	9°16	26°34	25°20	25°21	1°14	S 29
M30	4 32 52	7♐18'18	6♐48	10♐ 1	2♐39	16♑45	17♌19	10♉56	9♓14	1♌18	9♈15	26♍24	25♍17	25♉27	1♉12	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	14s13	12s26	3n39	7s36	1n49	8s55	1n19	24s40	1s17	16n47	0n38	13n21	2s36	8s50	0s48	19n38	0s15	12s11	17s26	0n33	1n16	14n16	11n33	0s53
M 2	14 32	15 33	4 29	8 15	1 44	9 23	1 18	24 42	1 17	16 46	0 38	13 20	2 36	8 50	0 47	19 38	0 15	12 11	17 26	0 36	1 17	14 17	11 32	0 53
T 3	14 51	17 33	5 0	8 54	1 39	9 51	1 16	24 43	1 17	16 44	0 38	13 19	2 36	8 50	0 47	19 38	0 15	12 11	17 25	0 38	1 19	14 18	11 31	0 53
W 4	15 10	18 20	5 9	9 34	1 34	10 19	1 15	24 45	1 18	16 43	0 39	13 17	2 36	8 51	0 47	19 38	0 15	12 12	17 25	0 41	1 20	14 19	11 30	0 53
T 5	15 29	17 53	4 59	10 13	1 28	10 46	1 13	24 46	1 18	16 41	0 39	13 16	2 36	8 51	0 47	19 38	0 15	12 12	17 25	0 43	1 21	14 21	11 28	0 53
F 6	15 47	16 21	4 31	10 52	1 22	11 14	1 12	24 46	1 18	16 40	0 39	13 14	2 36	8 51	0 47	19 38	0 14	12 12	17 25	0 44	1 22	14 22	11 27	0 53
S 7	16 5	13 56	3 49	11 31	1 16	11 41	1 11	24 47	1 18	16 39	0 39	13 13	2 35	8 51	0 47	19 38	0 14	12 12	17 25	0 45	1 24	14 23	11 26	0 53
S 8	16 23	10 52	2 55	12 9	1 10	12 8	1 9	24 47	1 18	16 37	0 39	13 11	2 35	8 51	0 47	19 38	0 14	12 12	17 24	0 44	1 25	14 24	11 25	0 54
M 9	16 41	7 23	1 55	12 47	1 3	12 34	1 7	24 47	1 18	16 36	0 40	13 10	2 35	8 52	0 47	19 38	0 14	12 12	17 24	0 44	1 26	14 25	11 24	0 54
T 10	16 58	3 38	0 50	13 25	0 57	13 0	1 6	24 47	1 18	16 35	0 40	13 9	2 35	8 52	0 47	19 38	0 14	12 13	17 24	0 43	1 27	14 26	11 23	0 54
W11	17 15	0n12	0s16	14 2	0 50	13 26	1 4	24 46	1 18	16 34	0 40	13 7	2 35	8 52	0 47	19 38	0 14	12 13	17 24	0 43	1 29	14 28	11 22	0 54
T 12	17 32	3 59	1 20	14 38	0 44	13 52	1 2	24 45	1 18	16 33	0 40	13 6	2 35	8 52	0 47	19 39	0 14	12 13	17 23	0 44	1 30	14 29	11 21	0 54
F 13	17 48	7 34	2 20	15 14	0 37	14 17	1 1	24 44	1 18	16 32	0 41	13 4	2 35	8 52	0 47	19 39	0 14	12 13	17 23	0 45	1 31	14 30	11 20	0 54
S 14	18 4	10 50	3 13	15 49	0 30	14 42	0 59	24 43	1 18	16 31	0 41	13 3	2 35	8 52	0 47	19 39	0 14	12 13	17 23	0 48	1 32	14 31	11 19	0 54
S 15	18 20	13 39	3 57	16 23	0 23	15 6	0 57	24 41	1 18	16 30	0 41	13 2	2 35	8 52	0 47	19 39	0 14	12 13	17 23	0 51	1 34	14 32	11 18	0 54
M16	18 36	15 54	4 32	16 57	0 16	15 30	0 55	24 39	1 18	16 29	0 41	13 0	2 35	8 52	0 47	19 39	0 14	12 13	17 22	0 55	1 35	14 33	11 17	0 54
T 17	18 51	17 29	4 54	17 30	0 9	15 54	0 53	24 37	1 18	16 28	0 41	12 59	2 35	8 52	0 47	19 39	0 14	12 13	17 22	1 0	1 36	14 35	11 16	0 54
W18	19 5	18 19	5 4	18 2	0 3	16 17	0 51	24 35	1 18	16 28	0 42	12 58	2 35	8 52	0 47	19 39	0 14	12 13	17 22	1 4	1 38	14 36	11 15	0 54
T 19	19 20	18 20	5 0	18 33	0s 4	16 40	0 49	24 32	1 18	16 27	0 42	12 56	2 34	8 52	0 47	19 39	0 14	12 13	17 22	1 9	1 39	14 37	11 14	0 54
F 20	19 34	17 31	4 43	19 3	0 11	17 3	0 47	24 29	1 18	16 26	0 42	12 55	2 34	8 52	0 47	19 39	0 14	12 13	17 21	1 12	1 40	14 38	11 13	0 54
S 21	19 48	15 53	4 13	19 33	0 17	17 25	0 45	24 25	1 18	16 26	0 42	12 54	2 34	8 52	0 47	19 39	0 14	12 13	17 21	1 14	1 41	14 39	11 12	0 54
S 22	20 1	13 28	3 30	20 1	0 24	17 46	0 43	24 22	1 18	16 25	0 43	12 53	2 34	8 52	0 47	19 39	0 14	12 13	17 21	1 16	1 43	14 40	11 11	0 55
M23	20 14	10 21	2 35	20 29	0 30	18 7	0 41	24 18	1 18	16 25	0 43	12 51	2 34	8 52	0 47	19 40	0 14	12 13	17 21	1 16	1 44	14 42	11 10	0 55
T 24	20 27	6 38	1 31	20 55	0 37	18 28	0 38	24 14	1 18	16 24	0 43	12 50	2 34	8 52	0 47	19 40	0 14	12 13	17 20	1 16	1 45	14 43	11 9	0 55
W25	20 39	2 29	0 20	21 20	0 43	18 48	0 36	24 9	1 18	16 24	0 43	12 49	2 34	8 52	0 47	19 40	0 14	12 13	17 20	1 16	1 46	14 44	11 8	0 55
T 26	20 51	1s57	0n54	21 45	0 49	19 7	0 34	24 4	1 17	16 24	0 44	12 48	2 33	8 51	0 47	19 40	0 14	12 13	17 20	1 16	1 48	14 45	11 7	0 55
F 27	21 2	6 25	2 7	22 8	0 55	19 26	0 32	23 59	1 17	16 23	0 44	12 47	2 33	8 51	0 47	19 40	0 14	12 13	17 19	1 17	1 49	14 46	11 6	0 55
S 28	21 14	10 37	3 14	22 30	1 1	19 45	0 29	23 54	1 17	16 23	0 44	12 45	2 33	8 51	0 46	19 40	0 14	12 13	17 19	1 19	1 50	14 47	11 5	0 55
S 29	21 24	14 11	4 8	22 52	1 7	20 2	0 27	23 49	1 17	16 23	0 44	12 44	2 33	8 51	0 46	19 41	0 14	12 13	17 19	1 22	1 51	14 48	11 4	0 55
M30	21s35	16s49	4n45	23s12	1s12	20s20	0n25	23s43	1s17	16n23	0n45	12n43	2s33	8s51	0s46	19n41	0s14	12s13	17s18	1n26	1n53	14n50	11n 3	0s55

Julian Day Number = 2301003.5, Delta T = 106.78 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'17, Lahiri = 18°06'18Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1587
geocentric

DECEMBER 1587 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 36 49	8♐19'16	22♐ 5	11♐35	3♐55	17♑32	17♌19	10°R52	9♓14	1°R17	9°R15	26°R13	25♍14	25♉34	1°R10	T 1
W 2	4 40 45	9°20'15	7♑ 7	13° 9	5°10	18°18	17°20	10♉48	9°15	1♌16	9♈14	26♍ 2	25°11	25°41	1♉ 8	W 2
T 3	4 44 42	10°21'14	21°47	14°43	6°26	19° 5	17°20	10°44	9°15	1°15	9°14	25°52	25° 7	25°47	1° 5	T 3
F 4	4 48 39	11°22'14	5♒58	16°17	7°41	19°52	17°R20	10°41	9°16	1°14	9°13	25°45	25° 4	25°54	1° 3	F 4
S 5	4 52 35	12°23'15	19°38	17°52	8°57	20°38	17°20	10°37	9°17	1°13	9°13	25°41	25° 1	26° 1	1° 1	S 5
S 6	4 56 32	13°24'16	2♓49	19°26	10°12	21°25	17°20	10°33	9°18	1°12	9°13	25°39	24°58	26° 8	0°59	S 6
M 7	5 0 28	14°25'18	15°34	21° 0	11°28	22°12	17°19	10°29	9°19	1°11	9°12	25°D39	24°55	26°14	0°57	M 7
T 8	5 4 25	15°26'21	27°58	22°35	12°43	22°59	17°19	10°26	9°20	1°10	9°12	25°R39	24°52	26°21	0°55	T 8
W 9	5 8 21	16°27'23	10♈ 7	24° 9	13°59	23°46	17°18	10°22	9°21	1° 9	9°11	25°38	24°48	26°28	0°53	W 9
T 10	5 12 18	17°28'27	22° 5	25°44	15°14	24°32	17°17	10°19	9°22	1° 8	9°11	25°36	24°45	26°34	0°51	T 10
F 11	5 16 14	18°29'30	3♉56	27°18	16°30	25°19	17°15	10°16	9°23	1° 7	9°11	25°30	24°42	26°41	0°50	F 11
S 12	5 20 11	19°30'34	15°46	28°53	17°45	26° 6	17°14	10°12	9°24	1° 5	9°11	25°22	24°39	26°48	0°48	S 12
S 13	5 24 8	20°31'39	27°36	0♑28	19° 1	26°53	17°12	10° 9	9°25	1° 4	9°10	25°11	24°36	26°55	0°46	S 13
M14	5 28 4	21°32'44	9♊30	2° 3	20°16	27°40	17°10	10° 6	9°26	1° 3	9°10	24°57	24°32	27° 1	0°44	M14
T 15	5 32 1	22°33'50	21°28	3°37	21°32	28°27	17° 8	10° 3	9°28	1° 2	9°10	24°42	24°29	27° 8	0°43	T 15
W16	5 35 57	23°34'56	3♋33	5°12	22°47	29°14	17° 6	10° 1	9°29	1° 1	9°10	24°27	24°26	27°15	0°41	W16
T 17	5 39 54	24°36'03	15°44	6°47	24° 3	0♒ 1	17° 4	9°58	9°30	0°59	9° 9	24°13	24°23	27°21	0°40	T 17
F 18	5 43 50	25°37'10	28° 3	8°21	25°18	0°48	17° 1	9°55	9°32	0°58	9° 9	24° 2	24°20	27°28	0°38	F 18
S 19	5 47 47	26°38'18	10♌31	9°55	26°34	1°35	16°58	9°53	9°33	0°57	9° 9	23°53	24°17	27°35	0°37	S 19
S 20	5 51 44	27°39'26	23° 9	11°29	27°50	2°22	16°55	9°50	9°35	0°55	9° 9	23°47	24°13	27°42	0°36	S 20
M21	5 55 40	28°40'35	6♍ 1	13° 3	29° 5	3° 9	16°52	9°48	9°36	0°54	9° 9	23°44	24°10	27°48	0°34	M21
T 22	5 59 37	29°41'44	19° 9	14°36	0♑21	3°57	16°48	9°45	9°38	0°53	9° 9	23°44	24° 7	27°55	0°33	T 22
W23	6 3 33	0♑42'54	2♎36	16° 8	1°36	4°44	16°45	9°43	9°40	0°51	9° 9	23°44	24° 4	28° 2	0°32	W23
T 24	6 7 30	1°44'04	16°24	17°40	2°52	5°31	16°41	9°41	9°41	0°50	9°D 9	23°43	24° 1	28° 8	0°31	T 24
F 25	6 11 26	2°45'15	0♏35	19°10	4° 7	6°18	16°37	9°39	9°43	0°48	9° 9	23°41	23°58	28°15	0°30	F 25
S 26	6 15 23	3°46'26	15° 7	20°40	5°23	7° 5	16°33	9°37	9°45	0°47	9° 9	23°36	23°54	28°22	0°29	S 26
S 27	6 19 19	4°47'38	29°58	22° 7	6°38	7°52	16°29	9°36	9°47	0°45	9° 9	23°28	23°51	28°28	0°28	S 27
M28	6 23 16	5°48'50	15♐ 1	23°33	7°54	8°40	16°24	9°34	9°49	0°44	9° 9	23°18	23°48	28°35	0°27	M28
T 29	6 27 13	6°50'02	0♑ 6	24°57	9° 9	9°27	16°20	9°32	9°51	0°42	9° 9	23° 6	23°45	28°42	0°26	T 29
W30	6 31 9	7°51'14	15° 3	26°18	10°25	10°14	16°15	9°31	9°53	0°41	9° 9	22°55	23°42	28°49	0°26	W30
T 31	6 35 6	8♑52'26	29♑42	27♑36	11♑40	11♒ 1	16♌10	9♉30	9♓55	0♌39	9♈ 9	22♍45	23♍38	28♉55	0♉25	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	21s44	18s15	5n 1	23s30	1s18	20s36	0n23	23s37	1s17	16n23	0n45	12n42	2s33	8s50	0s46	19n41	0s14	12s13	17s18	1n31	1n54	14n51	11n 3	0s55
W 2	21 54	18 22	4 56	23 48	1 23	20 53	0 20	23 30	1 17	16 23	0 45	12 41	2 32	8 50	0 46	19 41	0 14	12 13	17 18	1 35	1 55	14 52	11 2	0 55
T 3	22 3	17 15	4 32	24 4	1 28	21 8	0 18	23 24	1 17	16 23	0 45	12 40	2 32	8 50	0 46	19 41	0 14	12 13	17 17	1 39	1 56	14 53	11 1	0 55
F 4	22 11	15 5	3 51	24 20	1 33	21 23	0 15	23 17	1 16	16 24	0 45	12 39	2 32	8 49	0 46	19 42	0 14	12 13	17 17	1 41	1 58	14 54	11 0	0 55
S 5	22 20	12 8	2 59	24 33	1 38	21 37	0 13	23 9	1 16	16 24	0 46	12 38	2 32	8 49	0 46	19 42	0 14	12 12	17 17	1 43	1 59	14 55	10 59	0 55
S 6	22 27	8 39	1 58	24 46	1 42	21 51	0 11	23 2	1 16	16 24	0 46	12 37	2 32	8 49	0 46	19 42	0 14	12 12	17 16	1 44	2 0	14 56	10 59	0 55
M 7	22 35	4 53	0 53	24 57	1 46	22 4	0 8	22 54	1 16	16 25	0 46	12 36	2 31	8 48	0 46	19 42	0 14	12 12	17 16	1 44	2 2	14 57	10 58	0 55
T 8	22 42	1 0	0s12	25 7	1 50	22 16	0 6	22 46	1 16	16 25	0 46	12 35	2 31	8 48	0 46	19 42	0 14	12 12	17 16	1 44	2 3	14 59	10 57	0 55
W 9	22 48	2n51	1 16	25 16	1 54	22 28	0 4	22 38	1 16	16 25	0 47	12 34	2 31	8 48	0 46	19 43	0 14	12 12	17 15	1 44	2 4	15 0	10 56	0 55
T 10	22 54	6 32	2 15	25 23	1 57	22 39	0 1	22 30	1 15	16 26	0 47	12 34	2 31	8 47	0 46	19 43	0 14	12 12	17 15	1 45	2 5	15 1	10 56	0 56
F 11	22 59	9 55	3 8	25 28	2 0	22 49	0s 1	22 21	1 15	16 27	0 47	12 33	2 30	8 47	0 46	19 43	0 14	12 11	17 15	1 47	2 7	15 2	10 55	0 56
S 12	23 4	12 54	3 52	25 32	2 3	22 59	0 4	22 12	1 15	16 27	0 47	12 32	2 30	8 46	0 46	19 43	0 14	12 11	17 14	1 51	2 8	15 3	10 54	0 56
S 13	23 9	15 21	4 26	25 35	2 6	23 8	0 6	22 3	1 15	16 28	0 48	12 31	2 30	8 46	0 46	19 44	0 14	12 11	17 14	1 55	2 9	15 4	10 54	0 56
M14	23 13	17 10	4 49	25 36	2 8	23 16	0 8	21 53	1 15	16 29	0 48	12 31	2 30	8 45	0 46	19 44	0 14	12 11	17 14	2 1	2 10	15 5	10 53	0 56
T 15	23 17	18 15	4 59	25 36	2 10	23 24	0 11	21 44	1 14	16 30	0 48	12 30	2 29	8 45	0 46	19 44	0 14	12 10	17 13	2 6	2 12	15 6	10 53	0 56
W16	23 20	18 31	4 56	25 34	2 11	23 31	0 13	21 34	1 14	16 31	0 48	12 29	2 29	8 44	0 46	19 45	0 14	12 10	17 13	2 12	2 13	15 7	10 52	0 56
T 17	23 23	17 57	4 39	25 31	2 12	23 37	0 16	21 23	1 14	16 32	0 49	12 29	2 29	8 44	0 46	19 45	0 14	12 10	17 13	2 18	2 14	15 9	10 51	0 56
F 18	23 25	16 32	4 9	25 26	2 12	23 42	0 18	21 13	1 14	16 33	0 49	12 28	2 29	8 43	0 46	19 45	0 14	12 10	17 12	2 23	2 15	15 10	10 51	0 56
S 19	23 27	14 19	3 27	25 19	2 12	23 47	0 20	21 2	1 13	16 34	0 49	12 27	2 28	8 42	0 46	19 45	0 14	12 9	17 12	2 26	2 17	15 11	10 50	0 56
S 20	23 28	11 24	2 34	25 11	2 12	23 51	0 23	20 51	1 13	16 35	0 49	12 27	2 28	8 42	0 46	19 46	0 14	12 9	17 11	2 28	2 18	15 12	10 50	0 56
M21	23 29	7 54	1 32	25 1	2 11	23 54	0 25	20 40	1 13	16 36	0 50	12 26	2 28	8 41	0 46	19 46	0 14	12 9	17 11	2 29	2 19	15 13	10 49	0 56
T 22	23 29	3 56	0 24	24 50	2 9	23 57	0 27	20 29	1 12	16 37	0 50	12 26	2 28	8 41	0 46	19 46	0 14	12 9	17 11	2 30	2 20	15 14	10 49	0 56
W23	23 29	0s19	0n47	24 37	2 7	23 58	0 29	20 17	1 12	16 39	0 50	12 26	2 27	8 40	0 46	19 47	0 14	12 8	17 10	2 30	2 22	15 15	10 48	0 56
T 24	23 29	4 40	1 57	24 23	2 4	23 59	0 32	20 6	1 12	16 40	0 50	12 25	2 27	8 39	0 45	19 47	0 14	12 8	17 10	2 30	2 23	15 16	10 48	0 56
F 25	23 28	8 52	3 2	24 7	2 1	23 59	0 34	19 54	1 12	16 41	0 50	12 25	2 27	8 39	0 45	19 47	0 14	12 8	17 10	2 31	2 24	15 17	10 48	0 56
S 26	23 26	12 38	3 56	23 49	1 57	23 59	0 36	19 41	1 11	16 43	0 51	12 25	2 27	8 38	0 45	19 48	0 14	12 7	17 9	2 33	2 26	15 18	10 47	0 56
S 27	23 24	15 41	4 36	23 31	1 52	23 58	0 38	19 29	1 11	16 44	0 51	12 24	2 26	8 37	0 45	19 48	0 14	12 7	17 9	2 36	2 27	15 19	10 47	0 56
M28	23 22	17 43	4 58	23 10	1 46	23 56	0 40	19 16	1 11	16 46	0 51	12 24	2 26	8 36	0 45	19 48	0 14	12 6	17 9	2 40	2 28	15 21	10 47	0 56
T 29	23 19	18 31	4 59	22 49	1 40	23 53	0 42	19 3	1 10	16 48	0 51	12 24	2 26	8 36	0 45	19 49	0 14	12 6	17 8	2 45	2 29	15 22	10 46	0 56
W30	23 15	18 1	4 39	22 27	1 32	23 49	0 45	18 50	1 10	16 49	0 52	12 24	2 25	8 35	0 45	19 49	0 14	12 6	17 8	2 49	2 31	15 23	10 46	0 56
T 31	23s12	16s19	4n 1	22s 3	1s24	23s45	0s47	18s37	1s10	16n51	0n52	12n23	2s25	8s34	0s45	19n49	0s14	12s 5	17s 7	2n53	2n32	15n24	10n46	0s56

Julian Day Number = 2301033.5, Delta T = 106.65 sec
Ecliptic obliquity = 23°29'24, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'21, Lahiri = 18°06'22Greg. Calendar