Astrodienst Ephemeris Tables

for the year 1588

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 1588
geocentric

JANUARY 1588 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	6 39 2	9♑53'38	13♒57	28♑50	12♑56	11♒48	16°R 5	9°R29	9♓57	0°R38	9♈10	22°R37	23♍35	29♉ 2	0°R24	F 1
S 2	6 42 59	10°54'49	27°44	29°59	14°11	12°36	15♌59	9♉27	9°59	0♌36	9°10	22♍32	23°32	29° 9	0♉24	S 2
S 3	6 46 55	11°56'00	11♓ 2	1♒ 4	15°26	13°23	15°54	9°26	10° 1	0°35	9°10	22°29	23°29	29°15	0°23	S 3
M 4	6 50 52	12°57'10	23°53	2° 3	16°42	14°10	15°48	9°26	10° 3	0°33	9°10	22°D29	23°26	29°22	0°23	M 4
T 5	6 54 48	13°58'20	6♈22	2°55	17°57	14°57	15°43	9°25	10° 5	0°32	9°10	22°29	23°23	29°29	0°22	T 5
W 6	6 58 45	14°59'29	18°33	3°39	19°13	15°45	15°37	9°24	10° 8	0°30	9°11	22°R29	23°19	29°36	0°22	W 6
T 7	7 2 42	16° 0'37	0♉32	4°15	20°28	16°32	15°31	9°24	10°10	0°28	9°11	22°28	23°16	29°42	0°22	T 7
F 8	7 6 38	17° 1'45	12°23	4°42	21°44	17°19	15°25	9°23	10°12	0°27	9°11	22°24	23°13	29°49	0°22	F 8
S 9	7 10 35	18° 2'53	24°13	4°59	22°59	18° 7	15°18	9°23	10°15	0°25	9°12	22°19	23°10	29°56	0°22	S 9
S 10	7 14 31	19° 3'59	6♊ 5	5°R 4	24°14	18°54	15°12	9°23	10°17	0°23	9°12	22°10	23° 7	0♊ 2	0°D22	S 10
M11	7 18 28	20° 5'06	18° 2	4°59	25°30	19°41	15° 5	9°D23	10°20	0°22	9°12	21°59	23° 4	0° 9	0°22	M11
T 12	7 22 24	21° 6'11	0♋ 7	4°41	26°45	20°28	14°59	9°23	10°22	0°20	9°13	21°48	23° 0	0°16	0°22	T 12
W13	7 26 21	22° 7'16	12°21	4°12	28° 1	21°15	14°52	9°23	10°25	0°18	9°13	21°36	22°57	0°23	0°22	W13
T 14	7 30 17	23° 8'20	24°45	3°31	29°16	22° 3	14°45	9°23	10°27	0°17	9°14	21°24	22°54	0°29	0°22	T 14
F 15	7 34 14	24° 9'23	7♌20	2°41	0♒31	22°50	14°38	9°23	10°30	0°15	9°14	21°15	22°51	0°36	0°22	F 15
S 16	7 38 11	25°10'26	20° 6	1°41	1°47	23°37	14°31	9°24	10°32	0°13	9°15	21° 8	22°48	0°43	0°23	S 16
S 17	7 42 7	26°11'28	3♍ 2	0°33	3° 2	24°24	14°24	9°24	10°35	0°12	9°15	21° 4	22°44	0°49	0°23	S 17
M18	7 46 4	27°12'30	16°10	29♑21	4°17	25°12	14°16	9°25	10°38	0°10	9°16	21°D 2	22°41	0°56	0°23	M18
T 19	7 50 0	28°13'30	29°29	28° 5	5°33	25°59	14° 9	9°26	10°40	0° 8	9°16	21° 3	22°38	1° 3	0°24	T 19
W20	7 53 57	29°14'31	13♎ 2	26°48	6°48	26°46	14° 2	9°27	10°43	0° 7	9°17	21° 4	22°35	1°10	0°25	W20
T 21	7 57 53	0♒15'31	26°49	25°33	8° 3	27°33	13°54	9°28	10°46	0° 5	9°18	21°R 4	22°32	1°16	0°25	T 21
F 22	8 1 50	1°16'30	10♏51	24°22	9°19	28°20	13°47	9°29	10°49	0° 3	9°18	21° 4	22°29	1°23	0°26	F 22
S 23	8 5 46	2°17'29	25° 6	23°16	10°34	29° 7	13°39	9°30	10°52	0° 2	9°19	21° 2	22°25	1°30	0°27	S 23
S 24	8 9 43	3°18'27	9♐34	22°16	11°49	29°55	13°31	9°32	10°54	29♋59	9°20	20°57	22°22	1°36	0°28	S 24
M25	8 13 40	4°19'24	24°10	21°24	13° 4	0♓42	13°23	9°33	10°57	29°58	9°20	20°51	22°19	1°43	0°28	M25
T 26	8 17 36	5°20'21	8♑49	20°40	14°20	1°29	13°16	9°35	11° 0	29°56	9°21	20°44	22°16	1°50	0°29	T 26
W27	8 21 33	6°21'17	23°22	20° 5	15°35	2°16	13° 8	9°37	11° 3	29°55	9°22	20°36	22°13	1°57	0°30	W27
T 28	8 25 29	7°22'11	7♒43	19°39	16°50	3° 3	13° 0	9°38	11° 6	29°53	9°22	20°30	22°10	2° 3	0°31	T 28
F 29	8 29 26	8°23'05	21°47	19°21	18° 5	3°50	12°52	9°40	11° 9	29°51	9°23	20°25	22° 6	2°10	0°33	F 29
S 30	8 33 22	9°23'57	5♓28	19°11	19°20	4°37	12°44	9°42	11°12	29°50	9°24	20°21	22° 3	2°17	0°34	S 30
S 31	8 37 19	10♒24'48	18♓46	19°D 9	20♒36	5♓24	12♌36	9♉44	11♓15	29♋48	9♈25	20°D20	22♍ 0	2♊23	0♉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
F 1	23s 7	13s39	3n 9	21s39	1s14	23s40	0s49	18s24	1s 9	16n53	0n52	12n23	2s25	8s33	0s45	19n50	0s14	12s 5	17s 7	2n56	2n33	15n25	10n45	0s56
S 2	23 2	10 18	2 7	21 14	1 4	23 34	0 51	18 10	1 9	16 54	0 52	12 23	2 25	8 32	0 45	19 50	0 14	12 5	17 7	2 58	2 34	15 26	10 45	0 56
S 3	22 57	6 31	1 0	20 49	0 53	23 28	0 53	17 56	1 9	16 56	0 52	12 23	2 24	8 32	0 45	19 50	0 14	12 4	17 6	2 59	2 36	15 27	10 45	0 56
M 4	22 51	2 33	0s 7	20 24	0 40	23 21	0 54	17 42	1 8	16 58	0 53	12 23	2 24	8 31	0 45	19 51	0 14	12 4	17 6	3 0	2 37	15 28	10 45	0 56
T 5	22 45	1n25	1 13	19 59	0 27	23 13	0 56	17 28	1 8	17 0	0 53	12 23	2 24	8 30	0 45	19 51	0 14	12 3	17 6	2 59	2 38	15 29	10 45	0 57
W 6	22 39	5 13	2 14	19 35	0 12	23 4	0 58	17 13	1 7	17 2	0 53	12 23	2 23	8 29	0 45	19 51	0 14	12 3	17 5	2 59	2 39	15 30	10 45	0 57
T 7	22 32	8 45	3 8	19 11	0n 3	22 55	1 0	16 59	1 7	17 4	0 53	12 23	2 23	8 28	0 45	19 52	0 14	12 2	17 5	3 0	2 41	15 31	10 44	0 57
F 8	22 24	11 53	3 53	18 49	0 20	22 45	1 2	16 44	1 7	17 6	0 54	12 24	2 23	8 27	0 45	19 52	0 14	12 2	17 4	3 1	2 42	15 32	10 44	0 57
S 9	22 16	14 32	4 28	18 28	0 37	22 34	1 3	16 29	1 6	17 8	0 54	12 24	2 22	8 26	0 45	19 52	0 14	12 1	17 4	3 3	2 43	15 33	10 44	0 57
S 10	22 8	16 35	4 52	18 9	0 55	22 23	1 5	16 14	1 6	17 10	0 54	12 24	2 22	8 25	0 45	19 53	0 14	12 1	17 4	3 7	2 44	15 34	10 44	0 57
M11	21 59	17 56	5 2	17 52	1 14	22 11	1 7	15 59	1 5	17 12	0 54	12 24	2 22	8 24	0 45	19 53	0 14	12 0	17 3	3 11	2 46	15 35	10 44	0 57
T 12	21 50	18 29	5 0	17 38	1 32	21 58	1 8	15 43	1 5	17 14	0 54	12 25	2 22	8 23	0 45	19 54	0 14	12 0	17 3	3 16	2 47	15 36	10 44	0 57
W13	21 40	18 12	4 44	17 27	1 51	21 44	1 10	15 28	1 5	17 17	0 54	12 25	2 21	8 22	0 45	19 54	0 14	11 59	17 3	3 20	2 48	15 37	10 44	0 57
T 14	21 30	17 3	4 14	17 19	2 9	21 30	1 11	15 12	1 4	17 19	0 55	12 25	2 21	8 21	0 45	19 54	0 14	11 59	17 2	3 25	2 49	15 38	10 44	0 57
F 15	21 20	15 4	3 32	17 14	2 26	21 16	1 13	14 56	1 4	17 21	0 55	12 26	2 21	8 20	0 45	19 55	0 14	11 58	17 2	3 29	2 51	15 39	10 44	0 57
S 16	21 9	12 19	2 38	17 11	2 42	21 0	1 14	14 40	1 3	17 23	0 55	12 26	2 20	8 19	0 45	19 55	0 14	11 58	17 2	3 31	2 52	15 40	10 44	0 57
S 17	20 57	8 56	1 35	17 12	2 57	20 44	1 15	14 24	1 3	17 26	0 55	12 27	2 20	8 18	0 45	19 55	0 14	11 57	17 1	3 33	2 53	15 42	10 45	0 57
M18	20 46	5 4	0 26	17 15	3 9	20 28	1 16	14 8	1 2	17 28	0 55	12 27	2 20	8 17	0 45	19 56	0 14	11 57	17 1	3 34	2 54	15 43	10 45	0 57
T 19	20 34	0 54	0n45	17 20	3 19	20 11	1 18	13 51	1 2	17 30	0 56	12 28	2 19	8 16	0 45	19 56	0 14	11 56	17 1	3 33	2 56	15 44	10 45	0 57
W20	20 21	3s23	1 55	17 27	3 27	19 53	1 19	13 35	1 1	17 33	0 56	12 28	2 19	8 15	0 45	19 57	0 14	11 56	17 0	3 33	2 57	15 45	10 45	0 57
T 21	20 8	7 33	3 0	17 36	3 32	19 35	1 20	13 18	1 1	17 35	0 56	12 29	2 19	8 14	0 45	19 57	0 14	11 55	17 0	3 33	2 58	15 46	10 45	0 57
F 22	19 55	11 23	3 55	17 46	3 35	19 16	1 21	13 1	1 0	17 37	0 56	12 29	2 19	8 13	0 45	19 57	0 14	11 55	17 0	3 33	2 59	15 47	10 45	0 57
S 23	19 41	14 36	4 37	17 57	3 35	18 56	1 22	12 44	1 0	17 40	0 56	12 30	2 18	8 12	0 45	19 58	0 14	11 54	16 59	3 34	3 1	15 48	10 46	0 57
S 24	19 27	16 58	5 2	18 8	3 33	18 36	1 23	12 27	1 0	17 42	0 56	12 31	2 18	8 11	0 45	19 58	0 14	11 54	16 59	3 36	3 2	15 49	10 46	0 57
M25	19 13	18 15	5 7	18 20	3 29	18 16	1 24	12 10	0 59	17 44	0 56	12 32	2 18	8 10	0 45	19 58	0 14	11 53	16 59	3 38	3 3	15 50	10 46	0 57
T 26	18 58	18 20	4 53	18 32	3 24	17 55	1 24	11 53	0 59	17 47	0 57	12 32	2 17	8 8	0 45	19 59	0 14	11 52	16 58	3 41	3 5	15 51	10 47	0 57
W27	18 43	17 12	4 19	18 44	3 17	17 33	1 25	11 36	0 58	17 49	0 57	12 33	2 17	8 7	0 44	19 59	0 14	11 52	16 58	3 44	3 6	15 52	10 47	0 57
T 28	18 28	15 0	3 30	18 56	3 8	17 11	1 26	11 18	0 58	17 51	0 57	12 34	2 17	8 6	0 44	19 59	0 14	11 51	16 58	3 46	3 7	15 53	10 47	0 57
F 29	18 12	11 56	2 29	19 8	2 59	16 49	1 26	11 0	0 57	17 54	0 57	12 35	2 16	8 5	0 44	20 0	0 14	11 51	16 57	3 48	3 8	15 54	10 48	0 57
S 30	17 56	8 17	1 20	19 19	2 49	16 26	1 27	10 43	0 57	17 56	0 57	12 36	2 16	8 4	0 44	20 0	0 14	11 50	16 57	3 50	3 10	15 55	10 48	0 57
S 31	17s40	4s19	0n 9	19s30	2n39	16s 2	1s27	10s25	0s56	17n59	0n57	12n37	2s16	8s 3	0s44	20n 1	0s14	11s49	16s57	3n50	3n11	15n56	10n48	0s57

Julian Day Number = 2301064.5, Delta T = 106.51 sec
Ecliptic obliquity = 23°29'24, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'26, Lahiri = 18°06'26Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

FEBRUARY 1588 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	8 41 15	11♒25'37	1♈39	19♉15	21♒51	6♓11	12°R28	9♉47	11♓18	29°R46	9♈26	20♍21	21♍57	2♊30	0♉36	M 1
T 2	8 45 12	12°26'25	14°12	19°27	23° 6	6°58	12♌20	9°49	11°22	29♋45	9°27	20°22	21°54	2°37	0°38	T 2
W 3	8 49 9	13°27'12	26°27	19°46	24°21	7°45	12°12	9°52	11°25	29°43	9°27	20°24	21°50	2°44	0°39	W 3
T 4	8 53 5	14°27'56	8♉30	20°11	25°36	8°32	12° 4	9°54	11°28	29°42	9°28	20°25	21°47	2°50	0°41	T 4
F 5	8 57 2	15°28'40	20°24	20°41	26°51	9°19	11°56	9°57	11°31	29°40	9°29	20°R25	21°44	2°57	0°42	F 5
S 6	9 0 58	16°29'21	2♊15	21°16	28° 6	10° 6	11°48	10° 0	11°34	29°38	9°30	20°24	21°41	3° 4	0°44	S 6
S 7	9 4 55	17°30'02	14° 9	21°56	29°21	10°53	11°40	10° 2	11°37	29°37	9°31	20°21	21°38	3°10	0°45	S 7
M 8	9 8 51	18°30'40	26° 8	22°40	0♓36	11°40	11°32	10° 5	11°41	29°35	9°32	20°17	21°35	3°17	0°47	M 8
T 9	9 12 48	19°31'17	8♋17	23°27	1°51	12°27	11°25	10° 9	11°44	29°34	9°33	20°12	21°31	3°24	0°49	T 9
W10	9 16 44	20°31'52	20°39	24°19	3° 6	13°13	11°17	10°12	11°47	29°32	9°34	20° 6	21°28	3°31	0°51	W10
T 11	9 20 41	21°32'25	3♌15	25°13	4°21	14° 0	11° 9	10°15	11°50	29°30	9°35	20° 1	21°25	3°37	0°53	T 11
F 12	9 24 38	22°32'57	16° 6	26°11	5°36	14°47	11° 1	10°18	11°54	29°29	9°36	19°57	21°22	3°44	0°55	F 12
S 13	9 28 34	23°33'27	29°12	27°11	6°51	15°34	10°54	10°22	11°57	29°27	9°37	19°54	21°19	3°51	0°57	S 13
S 14	9 32 31	24°33'56	12♍32	28°14	8° 6	16°20	10°46	10°25	12° 0	29°26	9°38	19°53	21°16	3°57	0°59	S 14
M15	9 36 27	25°34'23	26° 5	29°19	9°21	17° 7	10°39	10°29	12° 4	29°24	9°39	19°D53	21°12	4° 4	1° 1	M15
T 16	9 40 24	26°34'49	9♎48	0♒27	10°36	17°54	10°31	10°33	12° 7	29°23	9°40	19°54	21° 9	4°11	1° 3	T 16
W17	9 44 20	27°35'13	23°41	1°36	11°51	18°40	10°24	10°37	12°10	29°21	9°41	19°55	21° 6	4°18	1° 5	W17
T 18	9 48 17	28°35'36	7♏41	2°48	13° 5	19°27	10°17	10°41	12°14	29°20	9°43	19°56	21° 3	4°24	1° 7	T 18
F 19	9 52 13	29°35'57	21°48	4° 1	14°20	20°13	10° 9	10°45	12°17	29°19	9°44	19°57	21° 0	4°31	1°10	F 19
S 20	9 56 10	0♓36'17	5♐59	5°16	15°35	21° 0	10° 2	10°49	12°20	29°17	9°45	19°R57	20°56	4°38	1°12	S 20
S 21	10 0 7	1°36'36	20°12	6°33	16°50	21°46	9°55	10°53	12°24	29°16	9°46	19°57	20°53	4°44	1°14	S 21
M22	10 4 3	2°36'53	4♑25	7°52	18° 4	22°33	9°49	10°57	12°27	29°14	9°47	19°55	20°50	4°51	1°17	M22
T 23	10 8 0	3°37'09	18°35	9°12	19°19	23°19	9°42	11° 2	12°31	29°13	9°48	19°53	20°47	4°58	1°19	T 23
W24	10 11 56	4°37'23	2♒38	10°33	20°34	24° 5	9°35	11° 6	12°34	29°12	9°50	19°51	20°44	5° 5	1°22	W24
T 25	10 15 53	5°37'36	16°31	11°56	21°48	24°52	9°29	11°11	12°37	29°10	9°51	19°49	20°41	5°11	1°24	T 25
F 26	10 19 49	6°37'46	0♓10	13°20	23° 3	25°38	9°22	11°16	12°41	29° 9	9°52	19°47	20°37	5°18	1°27	F 26
S 27	10 23 46	7°37'55	13°33	14°45	24°18	26°24	9°16	11°20	12°44	29° 8	9°53	19°D47	20°34	5°25	1°30	S 27
S 28	10 27 42	8°38'02	26°38	16°12	25°32	27°11	9°10	11°25	12°48	29° 7	9°55	19°47	20°31	5°32	1°33	S 28
M29	10 31 39	9♓38'07	9♈26	17♒39	26♓47	27♓57	9♌ 4	11♉30	12♓51	29♋ 5	9♈56	19♍47	20♍28	5♊38	1♉35	M29

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	17s23	0s17	1s 1	19s40	2n27	15s38	1s28	10s 7	0s56	18n 1	0n57	12n38	2s16	8s 1	0s44	20n 1	0s14	11s49	16s56	3n50	3n12	15n57	10n49	0s57
T 2	17 6	3n40	2 6	19 50	2 16	15 14	1 28	9 49	0 55	18 3	0 57	12 39	2 15	8 0	0 44	20 1	0 14	11 48	16 56	3 49	3 13	15 58	10 49	0 57
W 3	16 49	7 22	3 4	19 59	2 5	14 49	1 28	9 31	0 54	18 6	0 58	12 40	2 15	7 59	0 44	20 2	0 14	11 48	16 56	3 49	3 15	15 59	10 50	0 57
T 4	16 32	10 42	3 52	20 7	1 53	14 24	1 29	9 13	0 54	18 8	0 58	12 41	2 15	7 58	0 44	20 2	0 14	11 47	16 55	3 48	3 16	16 0	10 50	0 57
F 5	16 14	13 32	4 30	20 14	1 41	13 59	1 29	8 55	0 53	18 10	0 58	12 42	2 14	7 57	0 44	20 2	0 14	11 46	16 55	3 48	3 17	16 1	10 51	0 57
S 6	15 56	15 49	4 57	20 20	1 30	13 33	1 29	8 37	0 53	18 13	0 58	12 43	2 14	7 55	0 44	20 3	0 14	11 46	16 55	3 49	3 18	16 2	10 51	0 57
S 7	15 37	17 25	5 10	20 25	1 18	13 6	1 29	8 18	0 52	18 15	0 58	12 44	2 14	7 54	0 44	20 3	0 14	11 45	16 55	3 50	3 20	16 3	10 52	0 57
M 8	15 19	18 16	5 10	20 29	1 7	12 40	1 29	8 0	0 52	18 17	0 58	12 46	2 14	7 53	0 44	20 3	0 14	11 45	16 54	3 52	3 21	16 4	10 52	0 58
T 9	15 0	18 18	4 57	20 32	0 56	12 13	1 29	7 42	0 51	18 20	0 58	12 47	2 13	7 52	0 44	20 4	0 14	11 44	16 54	3 54	3 22	16 5	10 53	0 58
W10	14 41	17 28	4 29	20 34	0 45	11 46	1 28	7 23	0 51	18 22	0 58	12 48	2 13	7 50	0 44	20 4	0 14	11 43	16 54	3 56	3 23	16 5	10 54	0 58
T 11	14 21	15 46	3 48	20 35	0 34	11 18	1 28	7 5	0 50	18 24	0 58	12 49	2 13	7 49	0 44	20 4	0 14	11 43	16 53	3 58	3 25	16 6	10 54	0 58
F 12	14 2	13 16	2 55	20 34	0 24	10 50	1 28	6 46	0 50	18 26	0 58	12 51	2 12	7 48	0 44	20 5	0 14	11 42	16 53	3 59	3 26	16 7	10 55	0 58
S 13	13 42	10 2	1 51	20 33	0 13	10 22	1 27	6 27	0 49	18 28	0 58	12 52	2 12	7 47	0 44	20 5	0 14	11 41	16 53	4 0	3 27	16 8	10 56	0 58
S 14	13 22	6 15	0 40	20 30	0 4	9 54	1 27	6 9	0 48	18 30	0 58	12 53	2 12	7 45	0 44	20 5	0 14	11 41	16 53	4 1	3 28	16 9	10 56	0 58
M15	13 1	2 5	0n34	20 26	0s 6	9 25	1 27	5 50	0 48	18 33	0 59	12 55	2 12	7 44	0 44	20 6	0 14	11 40	16 52	4 1	3 30	16 10	10 57	0 58
T 16	12 41	2s15	1 47	20 21	0 15	8 56	1 26	5 31	0 47	18 35	0 59	12 56	2 11	7 43	0 44	20 6	0 14	11 39	16 52	4 1	3 31	16 11	10 58	0 58
W17	12 20	6 30	2 55	20 14	0 24	8 27	1 25	5 12	0 47	18 37	0 59	12 58	2 11	7 41	0 44	20 6	0 14	11 39	16 52	4 0	3 32	16 12	10 58	0 58
T 18	11 59	10 25	3 54	20 7	0 33	7 58	1 25	4 54	0 46	18 39	0 59	12 59	2 11	7 40	0 44	20 7	0 14	11 38	16 52	4 0	3 33	16 13	10 59	0 58
F 19	11 38	13 46	4 38	19 58	0 41	7 28	1 24	4 35	0 45	18 41	0 59	13 1	2 11	7 39	0 44	20 7	0 14	11 37	16 51	3 59	3 35	16 14	11 0	0 58
S 20	11 17	16 19	5 6	19 47	0 49	6 58	1 23	4 16	0 45	18 43	0 59	13 2	2 10	7 38	0 44	20 7	0 14	11 37	16 51	3 59	3 36	16 15	11 1	0 58
S 21	10 55	17 53	5 15	19 36	0 57	6 28	1 22	3 57	0 44	18 45	0 59	13 4	2 10	7 36	0 44	20 8	0 14	11 36	16 51	3 59	3 37	16 16	11 1	0 58
M22	10 34	18 20	5 5	19 23	1 5	5 58	1 21	3 38	0 44	18 46	0 59	13 5	2 10	7 35	0 44	20 8	0 14	11 36	16 51	4 0	3 38	16 17	11 2	0 58
T 23	10 12	17 38	4 37	19 9	1 12	5 28	1 20	3 19	0 43	18 48	0 59	13 7	2 10	7 34	0 44	20 8	0 14	11 35	16 51	4 1	3 40	16 18	11 3	0 58
W24	9 50	15 51	3 52	18 53	1 18	4 57	1 19	3 0	0 43	18 50	0 59	13 9	2 9	7 32	0 44	20 9	0 14	11 34	16 50	4 2	3 41	16 19	11 4	0 58
T 25	9 28	13 9	2 54	18 36	1 25	4 27	1 18	2 41	0 42	18 52	0 59	13 10	2 9	7 31	0 44	20 9	0 14	11 34	16 50	4 3	3 42	16 20	11 5	0 58
F 26	9 6	9 47	1 46	18 18	1 31	3 56	1 17	2 22	0 41	18 54	0 59	13 12	2 9	7 30	0 44	20 9	0 13	11 33	16 50	4 3	3 43	16 21	11 6	0 58
S 27	8 43	5 57	0 34	17 59	1 36	3 25	1 15	2 3	0 41	18 55	0 59	13 14	2 9	7 28	0 44	20 9	0 13	11 32	16 50	4 3	3 45	16 22	11 7	0 58
S 28	8 21	1 55	0s38	17 38	1 41	2 54	1 14	1 44	0 40	18 57	0 59	13 15	2 8	7 27	0 44	20 10	0 13	11 32	16 50	4 3	3 46	16 23	11 8	0 58
M29	7s58	2n 7	1s47	17s16	1s46	2s23	1s12	1s25	0s39	18n59	0n59	13n17	2s 8	7s26	0s44	20n10	0s13	11s31	16s49	4n 3	3n47	16n23	11n 8	0s58

Julian Day Number = 2301095.5, Delta T = 106.37 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'30, Lahiri = 18°06'30Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

MARCH 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	10 35 35	10♓38'10	21♈56	19♒ 9	28♓ 1	28♓43	8°R58	11♉35	12♓54	29°R 4	9♈57	19♍48	20♍25	5♊45	1♉38	T 1
W 2	10 39 32	11°38'11	4♉12	20°39	29°16	29°29	8♌52	11°40	12°58	29♋ 3	9°58	19°49	20°21	5°52	1°41	W 2
T 3	10 43 29	12°38'10	16°16	22°10	0♈30	0♈15	8°46	11°45	13° 1	29° 2	10° 0	19°50	20°18	5°58	1°44	T 3
F 4	10 47 25	13°38'06	28°12	23°43	1°45	1° 1	8°41	11°51	13° 5	29° 1	10° 1	19°50	20°15	6° 5	1°47	F 4
S 5	10 51 22	14°38'01	10♊ 5	25°17	2°59	1°47	8°36	11°56	13° 8	29° 0	10° 2	19°R51	20°12	6°12	1°50	S 5
S 6	10 55 18	15°37'53	21°58	26°52	4°13	2°33	8°31	12° 1	13°12	28°59	10° 4	19°51	20° 9	6°19	1°53	S 6
M 7	10 59 15	16°37'43	3♋58	28°28	5°28	3°19	8°26	12° 7	13°15	28°58	10° 5	19°51	20° 6	6°25	1°56	M 7
T 8	11 3 11	17°37'31	16° 8	0♓ 6	6°42	4° 5	8°21	12°12	13°19	28°57	10° 6	19°50	20° 2	6°32	1°59	T 8
W 9	11 7 8	18°37'17	28°32	1°44	7°56	4°51	8°16	12°18	13°22	28°56	10° 8	19°50	19°59	6°39	2° 2	W 9
T 10	11 11 4	19°37'00	11♌14	3°24	9°10	5°36	8°12	12°23	13°25	28°55	10° 9	19°D50	19°56	6°45	2° 5	T 10
F 11	11 15 1	20°36'41	24°15	5° 5	10°25	6°22	8° 7	12°29	13°29	28°54	10°10	19°50	19°53	6°52	2° 9	F 11
S 12	11 18 58	21°36'20	7♍37	6°48	11°39	7° 8	8° 3	12°35	13°32	28°53	10°12	19°50	19°50	6°59	2°12	S 12
S 13	11 22 54	22°35'57	21°18	8°31	12°53	7°54	7°59	12°41	13°36	28°52	10°13	19°R50	19°47	7° 6	2°15	S 13
M14	11 26 51	23°35'31	5♎17	10°16	14° 7	8°39	7°55	12°47	13°39	28°51	10°14	19°50	19°43	7°12	2°18	M14
T 15	11 30 47	24°35'04	19°29	12° 2	15°21	9°25	7°52	12°53	13°42	28°50	10°16	19°50	19°40	7°19	2°22	T 15
W16	11 34 44	25°34'35	3♏51	13°49	16°35	10°10	7°48	12°59	13°46	28°50	10°17	19°49	19°37	7°26	2°25	W16
T 17	11 38 40	26°34'04	18°16	15°38	17°49	10°56	7°45	13° 5	13°49	28°49	10°19	19°48	19°34	7°32	2°29	T 17
F 18	11 42 37	27°33'32	2♐41	17°27	19° 3	11°41	7°42	13°11	13°53	28°48	10°20	19°48	19°31	7°39	2°32	F 18
S 19	11 46 33	28°32'57	17° 1	19°19	20°17	12°26	7°39	13°17	13°56	28°47	10°21	19°47	19°27	7°46	2°35	S 19
S 20	11 50 30	29°32'21	1♑13	21°11	21°30	13°12	7°36	13°24	13°59	28°47	10°23	19°D47	19°24	7°53	2°39	S 20
M21	11 54 27	0♈31'43	15°15	23° 5	22°44	13°57	7°34	13°30	14° 3	28°46	10°24	19°47	19°21	7°59	2°42	M21
T 22	11 58 23	1°31'04	29° 5	25° 0	23°58	14°42	7°32	13°36	14° 6	28°46	10°26	19°48	19°18	8° 6	2°46	T 22
W23	12 2 20	2°30'22	12♒43	26°56	25°12	15°28	7°29	13°43	14° 9	28°45	10°27	19°49	19°15	8°13	2°50	W23
T 24	12 6 16	3°29'39	26° 8	28°54	26°25	16°13	7°27	13°49	14°13	28°44	10°28	19°50	19°12	8°19	2°53	T 24
F 25	12 10 13	4°28'53	9♓21	0♈53	27°39	16°58	7°26	13°56	14°16	28°44	10°30	19°51	19° 8	8°26	2°57	F 25
S 26	12 14 9	5°28'06	22°20	2°53	28°53	17°43	7°24	14° 3	14°19	28°43	10°31	19°R51	19° 5	8°33	3° 1	S 26
S 27	12 18 6	6°27'17	5♈ 6	4°54	0♉ 6	18°28	7°23	14° 9	14°22	28°43	10°33	19°51	19° 2	8°40	3° 4	S 27
M28	12 22 2	7°26'26	17°40	6°56	1°20	19°13	7°21	14°16	14°26	28°43	10°34	19°49	18°59	8°46	3° 8	M28
T 29	12 25 59	8°25'32	0♉ 2	8°59	2°33	19°58	7°20	14°23	14°29	28°42	10°36	19°47	18°56	8°53	3°12	T 29
W30	12 29 55	9°24'37	12°12	11° 3	3°47	20°43	7°20	14°30	14°32	28°42	10°37	19°44	18°52	9° 0	3°15	W30
T 31	12 33 52	10♈23'39	24♉14	13♈ 7	5♉ 0	21♈28	7♌19	14♉36	14♓35	28♋42	10♈39	19♍40	18♍49	9♊ 7	3♉19	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	7s36	5n57	2s49	16s52	1s51	1s52	1s11	1s 6	0s39	19n 0	0n59	13n19	2s 8	7s24	0s44	20n10	0s13	11s30	16s49	4n 3	3n48	16n24	11n 9	0s58
W 2	7 13	9 28	3 42	16 27	1 55	1 21	1 9	0 47	0 38	19 2	0 59	13 21	2 8	7 23	0 44	20 10	0 13	11 30	16 49	4 2	3 50	16 25	11 10	0 58
T 3	6 50	12 31	4 24	16 1	1 59	0 50	1 8	0 28	0 38	19 3	0 59	13 22	2 7	7 22	0 44	20 11	0 13	11 29	16 49	4 2	3 51	16 26	11 11	0 58
F 4	6 27	15 0	4 55	15 34	2 2	0 19	1 6	0 10	0 37	19 4	0 59	13 24	2 7	7 20	0 44	20 11	0 13	11 28	16 49	4 2	3 52	16 27	11 12	0 58
S 5	6 4	16 51	5 13	15 5	2 5	0n12	1 5	0n 9	0 36	19 6	0 59	13 26	2 7	7 19	0 44	20 11	0 13	11 28	16 49	4 2	3 53	16 28	11 13	0 58
S 6	5 41	17 58	5 17	14 35	2 8	0 43	1 3	0 28	0 36	19 7	0 59	13 28	2 7	7 18	0 44	20 11	0 13	11 27	16 48	4 2	3 55	16 29	11 14	0 58
M 7	5 17	18 18	5 8	14 3	2 10	1 14	1 1	0 47	0 35	19 8	0 59	13 30	2 6	7 16	0 44	20 12	0 13	11 26	16 48	4 2	3 56	16 30	11 15	0 59
T 8	4 54	17 48	4 45	13 31	2 11	1 46	0 59	1 6	0 35	19 10	0 59	13 32	2 6	7 15	0 44	20 12	0 13	11 26	16 48	4 2	3 57	16 31	11 16	0 59
W 9	4 31	16 27	4 8	12 57	2 13	2 17	0 57	1 25	0 34	19 11	0 59	13 34	2 6	7 14	0 44	20 12	0 13	11 25	16 48	4 2	3 58	16 32	11 17	0 59
T 10	4 7	14 16	3 18	12 21	2 14	2 48	0 55	1 43	0 33	19 12	0 59	13 35	2 6	7 12	0 44	20 12	0 13	11 24	16 48	4 2	4 0	16 33	11 18	0 59
F 11	3 44	11 18	2 17	11 44	2 14	3 19	0 53	2 2	0 33	19 13	0 59	13 37	2 6	7 11	0 44	20 12	0 13	11 24	16 48	4 2	4 1	16 34	11 20	0 59
S 12	3 20	7 41	1 7	11 6	2 14	3 50	0 51	2 21	0 32	19 14	0 59	13 39	2 5	7 10	0 44	20 13	0 13	11 23	16 48	4 2	4 2	16 34	11 21	0 59
S 13	2 57	3 35	0n 8	10 27	2 13	4 21	0 49	2 39	0 31	19 15	0 59	13 41	2 5	7 9	0 44	20 13	0 13	11 23	16 47	4 2	4 3	16 35	11 22	0 59
M14	2 33	0s49	1 25	9 47	2 12	4 51	0 47	2 58	0 31	19 16	0 59	13 43	2 5	7 7	0 44	20 13	0 13	11 22	16 47	4 2	4 5	16 36	11 23	0 59
T 15	2 9	5 13	2 37	9 5	2 11	5 22	0 45	3 17	0 30	19 17	0 58	13 45	2 5	7 6	0 44	20 13	0 13	11 21	16 47	4 2	4 6	16 37	11 24	0 59
W16	1 46	9 22	3 41	8 22	2 9	5 53	0 42	3 35	0 29	19 18	0 58	13 47	2 5	7 5	0 44	20 13	0 13	11 21	16 47	4 2	4 7	16 38	11 25	0 59
T 17	1 22	12 58	4 30	7 37	2 7	6 23	0 40	3 54	0 29	19 19	0 58	13 49	2 4	7 3	0 44	20 14	0 13	11 20	16 47	4 3	4 8	16 39	11 26	0 59
F 18	0 58	15 47	5 3	6 52	2 4	6 53	0 38	4 12	0 28	19 19	0 58	13 51	2 4	7 2	0 44	20 14	0 13	11 19	16 47	4 3	4 10	16 40	11 27	0 59
S 19	0 35	17 36	5 16	6 5	2 0	7 24	0 35	4 30	0 28	19 20	0 58	13 53	2 4	7 1	0 44	20 14	0 13	11 19	16 47	4 3	4 11	16 41	11 28	0 59
S 20	0 11	18 19	5 11	5 17	1 56	7 53	0 33	4 49	0 27	19 21	0 58	13 56	2 4	6 59	0 44	20 14	0 13	11 18	16 47	4 3	4 12	16 41	11 30	0 59
M21	0n13	17 53	4 46	4 28	1 52	8 23	0 31	5 7	0 26	19 21	0 58	13 58	2 4	6 58	0 44	20 14	0 13	11 18	16 47	4 3	4 13	16 42	11 31	0 59
T 22	0 36	16 23	4 5	3 38	1 47	8 53	0 28	5 25	0 26	19 22	0 58	14 0	2 3	6 57	0 44	20 14	0 13	11 17	16 47	4 3	4 15	16 43	11 32	0 59
W23	1 0	13 58	3 11	2 46	1 41	9 22	0 26	5 43	0 25	19 22	0 58	14 2	2 3	6 56	0 44	20 15	0 13	11 16	16 47	4 2	4 16	16 44	11 33	0 59
T 24	1 24	10 50	2 8	1 54	1 35	9 52	0 23	6 1	0 24	19 23	0 58	14 4	2 3	6 54	0 44	20 15	0 13	11 16	16 47	4 2	4 17	16 45	11 34	0 59
F 25	1 47	7 11	0 58	1 0	1 29	10 20	0 21	6 19	0 24	19 23	0 58	14 6	2 3	6 53	0 44	20 15	0 13	11 15	16 47	4 2	4 18	16 46	11 35	0 59
S 26	2 11	3 16	0s14	0 6	1 22	10 49	0 18	6 37	0 23	19 24	0 58	14 8	2 3	6 52	0 44	20 15	0 13	11 15	16 47	4 2	4 20	16 47	11 37	0 59
S 27	2 34	0n46	1 23	0n49	1 14	11 18	0 15	6 55	0 22	19 24	0 58	14 10	2 2	6 51	0 44	20 15	0 13	11 14	16 46	4 2	4 21	16 48	11 38	0 59
M28	2 58	4 40	2 28	1 45	1 6	11 46	0 13	7 12	0 22	19 24	0 58	14 12	2 2	6 49	0 44	20 15	0 13	11 14	16 46	4 2	4 22	16 48	11 39	1 0
T 29	3 21	8 19	3 24	2 41	0 57	12 14	0 10	7 30	0 21	19 24	0 58	14 15	2 2	6 48	0 44	20 15	0 13	11 13	16 46	4 3	4 23	16 49	11 40	1 0
W30	3 44	11 34	4 10	3 38	0 48	12 41	0 7	7 47	0 20	19 24	0 58	14 17	2 2	6 47	0 44	20 15	0 13	11 12	16 46	4 5	4 25	16 50	11 41	1 0
T 31	4n 7	14n17	4s44	4n35	0s39	13n 9	0s 4	8n 5	0s20	19n25	0n57	14n19	2s 2	6s46	0s44	20n15	0s13	11s12	16s46	4n 6	4n26	16n51	11n43	1s 0

Julian Day Number = 2301124.5, Delta T = 106.25 sec
Ecliptic obliquity = 23°29'26, Nutation = - 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'34, Lahiri = 18°06'34Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

APRIL 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	12 37 49	11♈22'39	6♊10	15♈12	6♉14	22♈12	7°R18	14♉43	14♓38	28°R41	10♈40	19°R37	18♍46	9♊13	3♉23	F 1
S 2	12 41 45	12°21'37	18° 2	17°17	7°27	22°57	7♌18	14°50	14°42	28♋41	10°41	19♍34	18°43	9°20	3°27	S 2
S 3	12 45 42	13°20'33	29°55	19°22	8°40	23°42	7°D18	14°57	14°45	28°41	10°43	19°33	18°40	9°27	3°31	S 3
M 4	12 49 38	14°19'26	11♋53	21°27	9°53	24°26	7°18	15° 4	14°48	28°41	10°44	19°D32	18°37	9°33	3°35	M 4
T 5	12 53 35	15°18'17	24° 1	23°31	11° 7	25°11	7°18	15°11	14°51	28°41	10°46	19°32	18°33	9°40	3°38	T 5
W 6	12 57 31	16°17'06	6♌23	25°35	12°20	25°55	7°19	15°19	14°54	28°40	10°47	19°33	18°30	9°47	3°42	W 6
T 7	13 1 28	17°15'52	19° 4	27°37	13°33	26°40	7°20	15°26	14°57	28°40	10°49	19°35	18°27	9°54	3°46	T 7
F 8	13 5 24	18°14'37	2♍ 7	29°37	14°46	27°24	7°20	15°33	15° 0	28°40	10°50	19°36	18°24	10° 0	3°50	F 8
S 9	13 9 21	19°13'18	15°35	1♉36	15°59	28° 9	7°22	15°40	15° 3	28°D40	10°51	19°R37	18°21	10° 7	3°54	S 9
S 10	13 13 18	20°11'58	29°28	3°33	17°12	28°53	7°23	15°47	15° 6	28°40	10°53	19°37	18°18	10°14	3°58	S 10
M11	13 17 14	21°10'36	13♎45	5°26	18°25	29°37	7°24	15°55	15° 9	28°40	10°54	19°35	18°14	10°20	4° 2	M11
T 12	13 21 11	22° 9'12	28°21	7°17	19°38	0♉21	7°26	16° 2	15°12	28°40	10°56	19°32	18°11	10°27	4° 6	T 12
W13	13 25 7	23° 7'45	13♏10	9° 5	20°50	1° 6	7°28	16° 9	15°15	28°41	10°57	19°28	18° 8	10°34	4°10	W13
T 14	13 29 4	24° 6'18	28° 3	10°50	22° 3	1°50	7°30	16°17	15°18	28°41	10°58	19°23	18° 5	10°41	4°14	T 14
F 15	13 33 0	25° 4'48	12♐53	12°30	23°16	2°34	7°32	16°24	15°20	28°41	11° 0	19°18	18° 2	10°47	4°18	F 15
S 16	13 36 57	26° 3'17	27°32	14° 7	24°28	3°18	7°34	16°32	15°23	28°41	11° 1	19°14	17°58	10°54	4°22	S 16
S 17	13 40 53	27° 1'44	11♑54	15°40	25°41	4° 2	7°36	16°39	15°26	28°41	11° 3	19°11	17°55	11° 1	4°26	S 17
M18	13 44 50	28° 0'09	25°57	17° 8	26°53	4°46	7°39	16°47	15°29	28°42	11° 4	19°D10	17°52	11° 8	4°30	M18
T 19	13 48 47	28°58'33	9♒41	18°32	28° 6	5°30	7°42	16°54	15°31	28°42	11° 5	19°10	17°49	11°14	4°34	T 19
W20	13 52 43	29°56'55	23° 5	19°52	29°18	6°13	7°45	17° 2	15°34	28°42	11° 7	19°12	17°46	11°21	4°38	W20
T 21	13 56 40	0♉55'16	6♓12	21° 7	0♊31	6°57	7°48	17° 9	15°37	28°43	11° 8	19°13	17°43	11°28	4°42	T 21
F 22	14 0 36	1°53'35	19° 3	22°17	1°43	7°41	7°52	17°17	15°39	28°43	11°10	19°R14	17°39	11°34	4°46	F 22
S 23	14 4 33	2°51'53	1♈42	23°22	2°55	8°25	7°55	17°24	15°42	28°44	11°11	19°13	17°36	11°41	4°50	S 23
S 24	14 8 29	3°50'08	14°10	24°23	4° 8	9° 8	7°59	17°32	15°45	28°44	11°12	19°10	17°33	11°48	4°54	S 24
M25	14 12 26	4°48'23	26°28	25°19	5°20	9°52	8° 3	17°40	15°47	28°45	11°14	19° 5	17°30	11°55	4°58	M25
T 26	14 16 22	5°46'35	8♉38	26° 9	6°32	10°35	8° 7	17°47	15°50	28°45	11°15	18°58	17°27	12° 1	5° 2	T 26
W27	14 20 19	6°44'46	20°41	26°54	7°44	11°19	8°11	17°55	15°52	28°46	11°16	18°50	17°24	12° 8	5° 6	W27
T 28	14 24 15	7°42'55	2♊38	27°35	8°56	12° 2	8°15	18° 3	15°55	28°46	11°18	18°40	17°20	12°15	5°10	T 28
F 29	14 28 12	8°41'02	14°32	28°10	10° 8	12°45	8°20	18°10	15°57	28°47	11°19	18°31	17°17	12°21	5°15	F 29
S 30	14 32 9	9♉39'07	26♊23	28♉40	11♊20	13♉29	8♌25	18♉18	15♓59	28♋48	11♈20	18♍23	17♍14	12♊28	5♉19	S 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	
F 1	4n31	16n22	5s 6	5n33	0s29	13n36	0s 2	8n22	0s19	19n25	0n57	14n21	2s 2	6s44	0s44	20n15	0s13	11s11	16s46	4n 7	4n27	16n52	11n44	1s 0	
S 2	4 54	17 44	5 14	6 31	0 19	14 3	0n 1	8 39	0 18	19 25	0 57	14 23	2 2	6 43	0 44	20 15	0 13	11 11	16 46	4 8	4 28	16 53	11 45	1 0	
S 3	5 17	18 20	5 9	7 28	0 8	14 29	0 4	8 57	0 18	19 24	0 57	14 25	2 1	6 42	0 44	20 16	0 13	11 10	16 46	4 9	4 30	16 53	11 46	1 0	
M 4	5 40	18 8	4 51	8 25	0n 3	14 55	0 7	9 14	0 17	19 24	0 57	14 28	2 1	6 41	0 44	20 16	0 13	11 10	16 46	4 9	4 31	16 54	11 48	1 0	
T 5	6 2	17 6	4 19	9 22	0 14	15 21	0 9	9 31	0 17	19 24	0 57	14 30	2 1	6 40	0 44	20 16	0 13	11 9	16 46	4 9	4 32	16 55	11 49	1 0	
W 6	6 25	15 14	3 35	10 18	0 25	15 46	0 12	9 47	0 16	19 24	0 57	14 32	2 1	6 39	0 44	20 16	0 13	11 9	16 46	4 9	4 33	16 56	11 50	1 0	
T 7	6 48	12 36	2 40	11 12	0 36	16 11	0 15	10 4	0 15	19 24	0 57	14 34	2 1	6 37	0 44	20 16	0 13	11 8	16 47	4 8	4 35	16 57	11 51	1 0	
F 8	7 10	9 16	1 35	12 6	0 47	16 35	0 18	10 21	0 15	19 23	0 57	14 36	2 1	6 36	0 44	20 16	0 13	11 8	16 47	4 7	4 36	16 58	11 53	1 0	
S 9	7 32	5 21	0 22	12 58	0 58	16 59	0 21	10 37	0 14	19 23	0 57	14 39	2 0	6 35	0 44	20 16	0 13	11 7	16 47	4 7	4 37	16 58	11 54	1 0	
S 10	7 55	1 2	0n54	13 48	1 9	17 23	0 24	10 54	0 13	19 23	0 57	14 41	2 0	6 34	0 44	20 16	0 13	11 7	16 47	4 7	4 38	16 59	11 55	1 0	
M11	8 17	3s28	2 8	14 37	1 20	17 46	0 26	11 10	0 13	19 22	0 57	14 43	2 0	6 33	0 44	20 16	0 13	11 6	16 47	4 8	4 40	17 0	11 57	1 0	
T 12	8 39	7 52	3 16	15 24	1 30	18 9	0 29	11 26	0 12	19 22	0 57	14 45	2 0	6 32	0 44	20 16	0 13	11 6	16 47	4 9	4 41	17 1	11 58	1 1	
W13	9 0	11 50	4 11	16 8	1 40	18 31	0 32	11 42	0 11	19 21	0 56	14 47	2 0	6 31	0 45	20 16	0 13	11 5	16 47	4 11	4 42	17 2	11 59	1 1	
T 14	9 22	15 3	4 50	16 50	1 50	18 53	0 35	11 58	0 11	19 21	0 56	14 50	2 0	6 30	0 45	20 16	0 13	11 5	16 47	4 13	4 43	17 3	12 0	1 1	
F 15	9 44	17 17	5 9	17 30	1 58	19 14	0 38	12 14	0 10	19 20	0 56	14 52	2 0	6 28	0 45	20 16	0 13	11 4	16 47	4 15	4 45	17 3	12 2	1 1	
S 16	10 5	18 20	5 8	18 7	2 7	19 35	0 41	12 30	0 9	19 19	0 56	14 54	2 0	6 27	0 45	20 16	0 13	11 4	16 47	4 16	4 46	17 4	12 3	1 1	
S 17	10 26	18 11	4 47	18 42	2 14	19 55	0 43	12 45	0 9	19 19	0 56	14 56	2 0	6 26	0 45	20 16	0 13	11 3	16 47	4 17	4 47	17 5	12 4	1 1	
M18	10 47	16 55	4 9	19 14	2 21	20 15	0 46	13 1	0 8	19 18	0 56	14 59	1 59	6 25	0 45	20 16	0 13	11 3	16 47	4 18	4 48	17 6	12 5	1 1	
T 19	11 8	14 41	3 18	19 44	2 27	20 35	0 49	13 16	0 7	19 17	0 56	15 1	1 59	6 24	0 45	20 16	0 13	11 2	16 47	4 18	4 50	17 7	12 7	1 1	
W20	11 29	11 42	2 17	20 11	2 32	20 53	0 52	13 31	0 7	19 16	0 56	15 3	1 59	6 23	0 45	20 16	0 13	11 2	16 47	4 17	4 51	17 7	12 8	1 1	
T 21	11 49	8 10	1 10	20 35	2 36	21 11	0 55	13 46	0 6	19 15	0 56	15 5	1 59	6 22	0 45	20 15	0 13	11 2	16 48	4 17	4 52	17 8	12 9	1 1	
F 22	12 9	4 20	0 1	20 57	2 40	21 29	0 57	14 1	0 5	19 14	0 56	15 7	1 59	6 21	0 45	20 15	0 12	11 1	16 48	4 16	4 53	17 9	12 11	1 1	
S 23	12 30	0 21	1s 7	21 16	2 42	21 46	1 0	14 16	0 5	19 13	0 56	15 10	1 59	6 20	0 45	20 15	0 12	11 1	16 48	4 17	4 55	17 10	12 12	1 1	
S 24	12 49	3n35	2 11	21 33	2 43	22 3	1 3	14 30	0 4	19 12	0 56	15 12	1 59	6 19	0 45	20 15	0 12	11 0	16 48	4 18	4 56	17 11	12 13	1 1	
M25	13 9	7 19	3 7	21 47	2 44	22 19	1 5	14 45	0 4	19 11	0 55	15 14	1 59	6 18	0 45	20 15	0 12	11 0	16 48	4 20	4 57	17 11	12 14	1 2	
T 26	13 29	10 42	3 55	21 58	2 43	22 34	1 8	14 59	0 3	19 10	0 55	15 16	1 59	6 17	0 45	20 15	0 12	11 0	16 48	4 22	4 58	17 12	12 16	1 2	
W27	13 48	13 37	4 31	22 7	2 41	22 48	1 11	15 13	0 2	19 9	0 55	15 19	1 59	6 16	0 45	20 15	0 12	10 59	16 48	4 26	4 59	17 13	12 17	1 2	
T 28	14 7	15 55	4 55	22 14	2 39	23 2	1 13	15 27	0 2	19 8	0 55	15 21	1 58	6 15	0 45	20 15	0 12	10 59	16 49	4 29	5 1	17 14	12 18	1 2	
F 29	14 26	17 32	5 6	22 18	2 35	23 16	1 16	15 41	0 1	19 6	0 55	15 23	1 58	6 15	0 45	20 15	0 12	10 59	16 49	4 33	5 2	17 14	12 20	1 2	
S 30	14n44	18n23	5s 3	22n20	2n30	23n29	1n18	15n55	0s 0	19n 5	0n55	15n25	1s58	6s14	0s45	20n15	0s12	10s58	16s49	4n36	5n 3	17n15	12n21	1s 2	

Julian Day Number = 2301155.5, Delta T = 106.11 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'38, Lahiri = 18°06'38Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

MAY 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	14 36 5	10♉37'11	8♋16	29♉ 4	12♊32	14♉12	8♌29	18♉26	16♓ 2	28♋48	11♈21	18°R16	17♍11	12♊35	5♉23	S 1
M 2	14 40 2	11°35'12	20°12	29°24	13°43	14°55	8°34	18°34	16° 4	28°49	11°23	18♍11	17° 8	12°42	5°27	M 2
T 3	14 43 58	12°33'12	2♌18	29°38	14°55	15°38	8°40	18°41	16° 6	28°50	11°24	18° 9	17° 4	12°48	5°31	T 3
W 4	14 47 55	13°31'10	14°36	29°47	16° 7	16°22	8°45	18°49	16° 8	28°51	11°25	18°D 8	17° 1	12°55	5°35	W 4
T 5	14 51 51	14°29'06	27°13	29°R51	17°18	17° 5	8°50	18°57	16°11	28°51	11°27	18° 9	16°58	13° 2	5°39	T 5
F 6	14 55 48	15°27'00	10♍12	29°50	18°30	17°48	8°56	19° 5	16°13	28°52	11°28	18°10	16°55	13° 9	5°43	F 6
S 7	14 59 44	16°24'52	23°38	29°44	19°41	18°30	9° 2	19°12	16°15	28°53	11°29	18°R10	16°52	13°15	5°47	S 7
S 8	15 3 41	17°22'43	7♎32	29°33	20°53	19°13	9° 8	19°20	16°17	28°54	11°30	18° 8	16°49	13°22	5°51	S 8
M 9	15 7 38	18°20'32	21°54	29°18	22° 4	19°56	9°14	19°28	16°19	28°55	11°31	18° 5	16°45	13°29	5°55	M 9
T 10	15 11 34	19°18'19	6♏41	28°59	23°15	20°39	9°20	19°36	16°21	28°56	11°33	17°58	16°42	13°35	5°59	T 10
W11	15 15 31	20°16'05	21°46	28°37	24°26	21°22	9°26	19°43	16°23	28°57	11°34	17°50	16°39	13°42	6° 3	W11
T 12	15 19 27	21°13'49	7♐ 0	28°11	25°37	22° 4	9°33	19°51	16°25	28°58	11°35	17°41	16°36	13°49	6° 7	T 12
F 13	15 23 24	22°11'32	22°11	27°42	26°48	22°47	9°40	19°59	16°27	28°59	11°36	17°32	16°33	13°56	6°11	F 13
S 14	15 27 20	23° 9'14	7♑ 9	27°11	27°59	23°30	9°46	20° 7	16°28	29° 0	11°37	17°24	16°29	14° 2	6°15	S 14
S 15	15 31 17	24° 6'55	21°47	26°38	29°10	24°12	9°53	20°15	16°30	29° 1	11°38	17°18	16°26	14° 9	6°18	S 15
M16	15 35 13	25° 4'35	6♒ 0	26° 5	0♋21	24°55	10° 0	20°22	16°32	29° 3	11°39	17°15	16°23	14°16	6°22	M16
T 17	15 39 10	26° 2'14	19°47	25°30	1°32	25°37	10° 7	20°30	16°34	29° 4	11°40	17°13	16°20	14°23	6°26	T 17
W18	15 43 7	26°59'52	3♓ 9	24°56	2°42	26°19	10°15	20°38	16°35	29° 5	11°42	17°D13	16°17	14°29	6°30	W18
T 19	15 47 3	27°57'28	16° 8	24°22	3°53	27° 2	10°22	20°46	16°37	29° 6	11°43	17°R14	16°14	14°36	6°34	T 19
F 20	15 51 0	28°55'04	28°49	23°50	5° 3	27°44	10°30	20°53	16°38	29° 8	11°44	17°13	16°10	14°43	6°38	F 20
S 21	15 54 56	29°52'39	11♈15	23°19	6°14	28°26	10°37	21° 1	16°40	29° 9	11°45	17°11	16° 7	14°49	6°42	S 21
S 22	15 58 53	0♊50'13	23°30	22°51	7°24	29° 9	10°45	21° 9	16°41	29°10	11°46	17° 6	16° 4	14°56	6°45	S 22
M23	16 2 49	1°47'46	5♉36	22°25	8°34	29°51	10°53	21°16	16°43	29°12	11°47	16°58	16° 1	15° 3	6°49	M23
T 24	16 6 46	2°45'18	17°37	22° 3	9°45	0♊33	11° 1	21°24	16°44	29°13	11°48	16°48	15°58	15°10	6°53	T 24
W25	16 10 42	3°42'49	29°33	21°44	10°55	1°15	11° 9	21°32	16°46	29°14	11°49	16°35	15°55	15°16	6°57	W25
T 26	16 14 39	4°40'19	11♊26	21°29	12° 5	1°57	11°18	21°40	16°47	29°16	11°50	16°22	15°51	15°23	7° 0	T 26
F 27	16 18 36	5°37'48	23°18	21°17	13°15	2°39	11°26	21°47	16°48	29°17	11°51	16° 8	15°48	15°30	7° 4	F 27
S 28	16 22 32	6°35'16	5♋10	21°10	14°24	3°21	11°35	21°55	16°49	29°19	11°51	15°56	15°45	15°36	7° 8	S 28
S 29	16 26 29	7°32'43	17° 4	21°D 7	15°34	4° 3	11°43	22° 2	16°50	29°20	11°52	15°45	15°42	15°43	7°11	S 29
M30	16 30 25	8°30'08	29° 2	21° 9	16°44	4°44	11°52	22°10	16°52	29°22	11°53	15°38	15°39	15°50	7°15	M30
T 31	16 34 22	9♊27'33	11♌ 9	21♉15	17♋53	5♊26	12♌ 1	22♉18	16♓53	29♋23	11♈54	15♍33	15♍35	15♊57	7♉19	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	15n 2	18n26	4s48	22n19	2n23	23n41	1n21	16n 8	0n 0	19n 4	0n55	15n27	1s58	6s13	0s45	20n15	0s12	10s58	16s49	4n39	5n 4	17n16	12n22	1s 2
M 2	15 20	17 41	4 20	22 17	2 16	23 52	1 23	16 22	0 1	19 2	0 55	15 30	1 58	6 12	0 45	20 14	0 12	10 58	16 49	4 41	5 6	17 17	12 23	1 2
T 3	15 38	16 7	3 40	22 11	2 7	24 3	1 26	16 35	0 2	19 1	0 55	15 32	1 58	6 11	0 45	20 14	0 12	10 57	16 49	4 42	5 7	17 17	12 25	1 2
W 4	15 56	13 47	2 50	22 4	1 58	24 13	1 28	16 48	0 2	18 59	0 55	15 34	1 58	6 10	0 45	20 14	0 12	10 57	16 50	4 42	5 8	17 18	12 26	1 2
T 5	16 13	10 45	1 50	21 54	1 47	24 23	1 30	17 1	0 3	18 58	0 55	15 36	1 58	6 9	0 45	20 14	0 12	10 57	16 50	4 42	5 9	17 19	12 27	1 2
F 6	16 30	7 6	0 43	21 42	1 35	24 32	1 32	17 14	0 3	18 56	0 55	15 38	1 58	6 9	0 45	20 14	0 12	10 56	16 50	4 41	5 11	17 20	12 28	1 2
S 7	16 47	2 59	0n29	21 29	1 22	24 40	1 35	17 26	0 4	18 55	0 54	15 40	1 58	6 8	0 45	20 14	0 12	10 56	16 50	4 41	5 12	17 20	12 30	1 3
S 8	17 3	1s26	1 42	21 13	1 9	24 47	1 37	17 39	0 5	18 53	0 54	15 43	1 58	6 7	0 45	20 13	0 12	10 56	16 50	4 42	5 13	17 21	12 31	1 3
M 9	17 20	5 55	2 50	20 55	0 54	24 54	1 39	17 51	0 5	18 51	0 54	15 45	1 58	6 6	0 45	20 13	0 12	10 55	16 51	4 43	5 14	17 22	12 32	1 3
T 10	17 35	10 10	3 49	20 36	0 39	25 0	1 41	18 3	0 6	18 50	0 54	15 47	1 58	6 6	0 45	20 13	0 12	10 55	16 51	4 46	5 16	17 23	12 33	1 3
W11	17 51	13 51	4 33	20 15	0 22	25 5	1 43	18 15	0 7	18 48	0 54	15 49	1 58	6 5	0 45	20 13	0 12	10 55	16 51	4 49	5 17	17 23	12 34	1 3
T 12	18 6	16 37	4 58	19 53	0 6	25 10	1 45	18 27	0 7	18 46	0 54	15 51	1 58	6 4	0 45	20 13	0 12	10 55	16 51	4 53	5 18	17 24	12 36	1 3
F 13	18 21	18 14	5 2	19 30	0s11	25 14	1 47	18 38	0 8	18 44	0 54	15 53	1 58	6 3	0 45	20 12	0 12	10 54	16 51	4 56	5 19	17 25	12 37	1 3
S 14	18 36	18 32	4 46	19 6	0 29	25 17	1 48	18 49	0 8	18 42	0 54	15 55	1 58	6 3	0 45	20 12	0 12	10 54	16 52	4 59	5 21	17 26	12 38	1 3
S 15	18 50	17 36	4 11	18 42	0 46	25 19	1 50	19 1	0 9	18 40	0 54	15 57	1 58	6 2	0 45	20 12	0 12	10 54	16 52	5 2	5 22	17 26	12 39	1 3
M16	19 5	15 34	3 21	18 17	1 4	25 21	1 52	19 12	0 10	18 38	0 54	15 59	1 57	6 1	0 45	20 12	0 12	10 54	16 52	5 3	5 23	17 27	12 40	1 3
T 17	19 18	12 41	2 20	17 52	1 21	25 22	1 53	19 22	0 10	18 36	0 54	16 2	1 57	6 1	0 45	20 12	0 12	10 54	16 52	5 3	5 24	17 28	12 42	1 4
W18	19 32	9 13	1 14	17 27	1 38	25 23	1 55	19 33	0 11	18 34	0 54	16 4	1 57	6 0	0 46	20 11	0 12	10 53	16 53	5 3	5 25	17 29	12 43	1 4
T 19	19 45	5 23	0 6	17 3	1 55	25 22	1 56	19 43	0 12	18 32	0 54	16 6	1 57	6 0	0 46	20 11	0 12	10 53	16 53	5 3	5 27	17 29	12 44	1 4
F 20	19 58	1 24	1s 1	16 40	2 10	25 21	1 58	19 54	0 12	18 30	0 53	16 8	1 57	5 59	0 46	20 11	0 12	10 53	16 53	5 4	5 28	17 30	12 45	1 4
S 21	20 10	2n34	2 4	16 18	2 25	25 20	1 59	20 4	0 13	18 28	0 53	16 10	1 57	5 58	0 46	20 11	0 12	10 53	16 53	5 4	5 29	17 31	12 46	1 4
S 22	20 22	6 22	3 0	15 57	2 39	25 17	2 0	20 14	0 13	18 26	0 53	16 12	1 57	5 58	0 46	20 10	0 12	10 53	16 54	5 6	5 30	17 31	12 47	1 4
M23	20 34	9 51	3 46	15 38	2 52	25 14	2 1	20 23	0 14	18 24	0 53	16 14	1 57	5 57	0 46	20 10	0 12	10 53	16 54	5 9	5 32	17 32	12 49	1 4
T 24	20 45	12 55	4 23	15 21	3 4	25 10	2 3	20 33	0 15	18 21	0 53	16 16	1 57	5 57	0 46	20 10	0 12	10 53	16 54	5 13	5 33	17 33	12 50	1 4
W25	20 56	15 25	4 47	15 5	3 15	25 6	2 3	20 42	0 15	18 19	0 53	16 18	1 57	5 56	0 46	20 10	0 12	10 52	16 54	5 18	5 34	17 34	12 51	1 4
T 26	21 7	17 16	4 59	14 52	3 25	25 0	2 4	20 51	0 16	18 17	0 53	16 20	1 57	5 56	0 46	20 9	0 12	10 52	16 55	5 24	5 35	17 34	12 52	1 5
F 27	21 17	18 22	4 58	14 41	3 34	24 54	2 5	21 0	0 16	18 14	0 53	16 22	1 57	5 56	0 46	20 9	0 12	10 52	16 55	5 29	5 37	17 35	12 53	1 5
S 28	21 27	18 40	4 44	14 32	3 41	24 48	2 6	21 9	0 17	18 12	0 53	16 24	1 57	5 55	0 46	20 9	0 12	10 52	16 55	5 34	5 38	17 36	12 54	1 5
S 29	21 37	18 9	4 17	14 25	3 47	24 41	2 7	21 17	0 18	18 9	0 53	16 26	1 57	5 55	0 46	20 8	0 12	10 52	16 56	5 38	5 39	17 36	12 55	1 5
M30	21 46	16 49	3 39	14 21	3 52	24 33	2 7	21 26	0 18	18 7	0 53	16 28	1 57	5 54	0 46	20 8	0 12	10 52	16 56	5 41	5 40	17 37	12 56	1 5
T 31	21n55	14n44	2s51	14n19	3s56	24n24	2n 8	21n34	0n19	18n 4	0n53	16n29	1s57	5s54	0s46	20n 8	0s12	10s52	16s56	5n43	5n42	17n38	12n57	1s 5

Julian Day Number = 2301185.5, Delta T = 105.98 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'42, Lahiri = 18°06'43Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

JUNE 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
W 1	16 38 18	10♊24'56	23♌27	21♉26	19♋ 3	6♊ 8	12♌10	22♉25	16♓54	29♋25	11♈55	15°R30	15♍32	16♊ 3	7♉22	W 1
T 2	16 42 15	11°22'19	6♍ 1	21°41	20°12	6°49	12°19	22°33	16°55	29°26	11°56	15♍29	15°29	16°10	7°26	T 2
F 3	16 46 11	12°19'40	18°56	22° 1	21°21	7°31	12°28	22°40	16°56	29°28	11°57	15°29	15°26	16°17	7°29	F 3
S 4	16 50 8	13°17'00	2♎15	22°25	22°30	8°13	12°37	22°48	16°56	29°30	11°57	15°29	15°23	16°24	7°33	S 4
S 5	16 54 5	14°14'19	16° 3	22°53	23°39	8°54	12°47	22°55	16°57	29°31	11°58	15°27	15°20	16°30	7°36	S 5
M 6	16 58 1	15°11'37	0♏19	23°26	24°48	9°36	12°56	23° 2	16°58	29°33	11°59	15°22	15°16	16°37	7°40	M 6
T 7	17 1 58	16° 8'54	15° 3	24° 3	25°57	10°17	13° 6	23°10	16°59	29°35	12° 0	15°15	15°13	16°44	7°43	T 7
W 8	17 5 54	17° 6'11	0♐ 9	24°44	27° 6	10°58	13°15	23°17	16°59	29°36	12° 0	15° 6	15°10	16°50	7°46	W 8
T 9	17 9 51	18° 3'27	15°27	25°29	28°14	11°40	13°25	23°25	17° 0	29°38	12° 1	14°55	15° 7	16°57	7°50	T 9
F 10	17 13 47	19° 0'42	0♑47	26°18	29°23	12°21	13°35	23°32	17° 1	29°40	12° 2	14°45	15° 4	17° 4	7°53	F 10
S 11	17 17 44	19°57'57	15°57	27°11	0♌31	13° 2	13°45	23°39	17° 1	29°42	12° 3	14°36	15° 1	17°11	7°56	S 11
S 12	17 21 41	20°55'11	0♒47	28° 8	1°39	13°43	13°55	23°46	17° 2	29°44	12° 3	14°28	14°57	17°17	8° 0	S 12
M13	17 25 37	21°52'25	15°11	29° 9	2°47	14°24	14° 5	23°54	17° 2	29°45	12° 4	14°24	14°54	17°24	8° 3	M13
T 14	17 29 34	22°49'38	29° 6	0♊13	3°55	15° 5	14°15	24° 1	17° 3	29°47	12° 4	14°21	14°51	17°31	8° 6	T 14
W15	17 33 30	23°46'52	12♓33	1°21	5° 3	15°46	14°26	24° 8	17° 3	29°49	12° 5	14°D21	14°48	17°38	8° 9	W15
T 16	17 37 27	24°44'05	25°33	2°33	6°11	16°27	14°36	24°15	17° 3	29°51	12° 6	14°R21	14°45	17°44	8°12	T 16
F 17	17 41 23	25°41'19	8♈12	3°48	7°18	17° 8	14°46	24°22	17° 3	29°53	12° 6	14°20	14°41	17°51	8°15	F 17
S 18	17 45 20	26°38'32	20°34	5° 7	8°25	17°49	14°57	24°29	17° 4	29°55	12° 7	14°18	14°38	17°58	8°18	S 18
S 19	17 49 16	27°35'45	2♉43	6°29	9°33	18°30	15° 8	24°36	17° 4	29°57	12° 7	14°14	14°35	18° 4	8°21	S 19
M20	17 53 13	28°32'58	14°43	7°55	10°40	19°11	15°18	24°43	17° 4	29°59	12° 8	14° 7	14°32	18°11	8°24	M20
T 21	17 57 9	29°30'11	26°38	9°24	11°47	19°52	15°29	24°50	17° 4	0♌ 1	12° 8	13°57	14°29	18°18	8°27	T 21
W22	18 1 6	0♋27'24	8♊30	10°56	12°54	20°33	15°40	24°57	17°R 4	0° 3	12° 9	13°45	14°26	18°25	8°30	W22
T 23	18 5 3	1°24'37	20°22	12°32	14° 0	21°13	15°51	25° 4	17° 4	0° 5	12° 9	13°32	14°22	18°31	8°33	T 23
F 24	18 8 59	2°21'50	2♋15	14°11	15° 7	21°54	16° 2	25°10	17° 4	0° 7	12° 9	13°19	14°19	18°38	8°36	F 24
S 25	18 12 56	3°19'02	14°10	15°53	16°13	22°34	16°13	25°17	17° 4	0° 9	12°10	13° 8	14°16	18°45	8°38	S 25
S 26	18 16 52	4°16'15	26°10	17°39	17°19	23°15	16°24	25°24	17° 3	0°11	12°10	12°58	14°13	18°51	8°41	S 26
M27	18 20 49	5°13'27	8♌15	19°27	18°25	23°55	16°35	25°30	17° 3	0°13	12°10	12°50	14°10	18°58	8°44	M27
T 28	18 24 45	6°10'40	20°28	21°18	19°31	24°36	16°47	25°37	17° 3	0°15	12°11	12°45	14° 7	19° 5	8°46	T 28
W29	18 28 42	7° 7'52	2♍52	23°12	20°37	25°16	16°58	25°43	17° 3	0°17	12°11	12°43	14° 3	19°12	8°49	W29
T 30	18 32 39	8♋ 5'04	15♍30	25♊ 9	21♌42	25♊57	17♌ 9	25♉50	17♓ 2	0♌19	12♈11	12°D43	14♍ 0	19♊18	8♉51	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	22n 3	11n56	1s54	14n19	3s59	24n15	2n 8	21n42	0n19	18n 2	0n53	16n31	1s57	5s54	0s46	20n 7	0s12	10s52	16s56	5n44	5n43	17n38	12n58	1s	5
T 2	22 12	8 33	0 50	14 21	4 0	24 5	2 8	21 49	0 20	17 59	0 53	16 33	1 57	5 53	0 46	20 7	0 12	10 52	16 57	5 44	5 44	17 39	12 59	1	5
F 3	22 19	4 40	0n18	14 26	4 1	23 54	2 8	21 57	0 21	17 56	0 53	16 35	1 57	5 53	0 46	20 7	0 12	10 52	16 57	5 44	5 45	17 40	13 0	1	5
S 4	22 27	0 26	1 27	14 32	4 0	23 43	2 9	22 4	0 21	17 54	0 53	16 37	1 57	5 53	0 46	20 7	0 12	10 52	16 57	5 44	5 46	17 40	13 1	1	6
S 5	22 33	3s57	2 34	14 41	3 59	23 31	2 9	22 11	0 22	17 51	0 53	16 39	1 57	5 52	0 46	20 6	0 12	10 52	16 58	5 45	5 48	17 41	13 2	1	6
M 6	22 40	8 17	3 33	14 51	3 56	23 19	2 8	22 18	0 22	17 48	0 52	16 41	1 57	5 52	0 46	20 6	0 12	10 52	16 58	5 47	5 49	17 42	13 3	1	6
T 7	22 46	12 14	4 20	15 4	3 53	23 6	2 8	22 25	0 23	17 46	0 52	16 42	1 57	5 52	0 46	20 5	0 12	10 52	16 58	5 49	5 50	17 42	13 4	1	6
W 8	22 52	15 29	4 50	15 18	3 49	22 53	2 8	22 31	0 24	17 43	0 52	16 44	1 57	5 51	0 46	20 5	0 12	10 52	16 59	5 53	5 51	17 43	13 5	1	6
T 9	22 57	17 43	5 0	15 33	3 44	22 38	2 8	22 38	0 24	17 40	0 52	16 46	1 58	5 51	0 46	20 5	0 12	10 52	16 59	5 57	5 53	17 44	13 6	1	6
F 10	23 2	18 40	4 49	15 50	3 38	22 24	2 7	22 44	0 25	17 37	0 52	16 48	1 58	5 51	0 46	20 4	0 12	10 52	16 59	6 1	5 54	17 44	13 7	1	6
S 11	23 7	18 17	4 17	16 8	3 31	22 8	2 6	22 50	0 25	17 34	0 52	16 50	1 58	5 51	0 46	20 4	0 12	10 52	17 0	6 5	5 55	17 45	13 8	1	6
S 12	23 11	16 38	3 28	16 28	3 24	21 53	2 6	22 55	0 26	17 31	0 52	16 51	1 58	5 51	0 46	20 4	0 12	10 52	17 0	6 8	5 56	17 46	13 9	1	7
M13	23 14	13 58	2 28	16 49	3 17	21 36	2 5	23 1	0 26	17 28	0 52	16 53	1 58	5 51	0 46	20 3	0 12	10 52	17 0	6 9	5 58	17 46	13 10	1	7
T 14	23 18	10 34	1 20	17 10	3 8	21 19	2 4	23 6	0 27	17 25	0 52	16 55	1 58	5 50	0 47	20 3	0 12	10 52	17 1	6 10	5 59	17 47	13 11	1	7
W15	23 21	6 43	0 10	17 33	2 59	21 2	2 3	23 11	0 28	17 22	0 52	16 57	1 58	5 50	0 47	20 3	0 12	10 52	17 1	6 10	6 0	17 48	13 12	1	7
T 16	23 23	2 40	0s59	17 56	2 50	20 44	2 2	23 16	0 28	17 19	0 52	16 58	1 58	5 50	0 47	20 2	0 12	10 52	17 1	6 10	6 1	17 48	13 13	1	7
F 17	23 25	1n23	2 3	18 20	2 40	20 26	2 0	23 21	0 29	17 16	0 52	17 0	1 58	5 50	0 47	20 2	0 12	10 52	17 2	6 11	6 2	17 49	13 14	1	7
S 18	23 27	5 17	2 59	18 45	2 30	20 7	1 59	23 25	0 29	17 13	0 52	17 2	1 58	5 50	0 47	20 1	0 12	10 53	17 2	6 11	6 4	17 50	13 14	1	7
S 19	23 28	8 54	3 46	19 9	2 19	19 47	1 58	23 29	0 30	17 10	0 52	17 3	1 58	5 50	0 47	20 1	0 12	10 53	17 2	6 13	6 5	17 50	13 15	1	7
M20	23 29	12 6	4 23	19 34	2 8	19 27	1 56	23 33	0 30	17 6	0 52	17 5	1 58	5 50	0 47	20 1	0 11	10 53	17 3	6 16	6 6	17 51	13 16	1	8
T 21	23 29	14 47	4 48	19 59	1 56	19 7	1 54	23 37	0 31	17 3	0 52	17 6	1 58	5 50	0 47	20 0	0 11	10 53	17 3	6 20	6 7	17 52	13 17	1	8
W22	23 29	16 50	5 0	20 24	1 45	18 46	1 52	23 41	0 31	17 0	0 52	17 8	1 58	5 50	0 47	20 0	0 11	10 53	17 3	6 24	6 9	17 52	13 18	1	8
T 23	23 29	18 10	4 59	20 49	1 33	18 25	1 50	23 44	0 32	16 57	0 52	17 9	1 58	5 50	0 47	19 59	0 11	10 53	17 4	6 29	6 10	17 53	13 18	1	8
F 24	23 28	18 43	4 45	21 13	1 21	18 4	1 48	23 47	0 33	16 53	0 52	17 11	1 58	5 50	0 47	19 59	0 11	10 53	17 4	6 34	6 11	17 53	13 19	1	8
S 25	23 27	18 27	4 19	21 36	1 9	17 42	1 46	23 50	0 33	16 50	0 52	17 13	1 58	5 50	0 47	19 59	0 11	10 54	17 4	6 39	6 12	17 54	13 20	1	8
S 26	23 25	17 21	3 41	21 59	0 57	17 19	1 44	23 53	0 34	16 47	0 52	17 14	1 58	5 51	0 47	19 58	0 11	10 54	17 5	6 42	6 13	17 55	13 21	1	8
M27	23 23	15 28	2 52	22 20	0 44	16 57	1 41	23 55	0 34	16 43	0 52	17 16	1 59	5 51	0 47	19 58	0 11	10 54	17 5	6 45	6 15	17 55	13 21	1	9
T 28	23 21	12 52	1 56	22 40	0 32	16 34	1 39	23 58	0 35	16 40	0 52	17 17	1 59	5 51	0 47	19 57	0 11	10 54	17 6	6 47	6 16	17 56	13 22	1	9
W29	23 18	9 40	0 52	22 59	0 20	16 10	1 36	24 0	0 35	16 36	0 52	17 18	1 59	5 51	0 47	19 57	0 11	10 54	17 6	6 48	6 17	17 56	13 23	1	9
T 30	23n15	5n57	0n15	23n16	0s 9	15n46	1n33	24n 2	0n36	16n33	0n52	17n20	1s59	5s51	0s47	19n56	0s11	10s55	17s 6	6n48	6n18	17n57	13n23	1s	9

Julian Day Number = 2301216.5, Delta T = 105.84 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'46, Lahiri = 18°06'47Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

JULY 1588 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
F 1	18 36 35	9♋ 2'15	28♍25	27♊ 8	22♌47	26♊37	17♌21	25♉56	17°R 2	0♌21	12♈12	12♍43	13♍57	19♊25	8♉54	F 1
S 2	18 40 32	9°59'27	11♎42	29° 9	23°52	27°17	17°32	26° 3	17♓ 1	0°23	12°12	12°R44	13°54	19°32	8°56	S 2
S 3	18 44 28	10°56'38	25°22	1♋13	24°57	27°58	17°44	26° 9	17° 1	0°25	12°12	12°43	13°51	19°39	8°59	S 3
M 4	18 48 25	11°53'49	9♏29	3°17	26° 2	28°38	17°56	26°15	17° 0	0°27	12°12	12°40	13°47	19°45	9° 1	M 4
T 5	18 52 21	12°51'00	24° 0	5°24	27° 6	29°18	18° 7	26°21	17° 0	0°30	12°12	12°35	13°44	19°52	9° 3	T 5
W 6	18 56 18	13°48'11	8♐53	7°31	28°11	29°58	18°19	26°28	16°59	0°32	12°13	12°28	13°41	19°59	9° 5	W 6
T 7	19 0 14	14°45'23	24° 0	9°39	29°15	0♋38	18°31	26°34	16°58	0°34	12°13	12°20	13°38	20° 5	9° 8	T 7
F 8	19 4 11	15°42'34	9♑12	11°48	0♍18	1°18	18°43	26°40	16°58	0°36	12°13	12°11	13°35	20°12	9°10	F 8
S 9	19 8 8	16°39'46	24°19	13°57	1°22	1°58	18°55	26°46	16°57	0°38	12°13	12° 4	13°32	20°19	9°12	S 9
S 10	19 12 4	17°36'58	9♒10	16° 6	2°25	2°38	19° 7	26°51	16°56	0°40	12°13	11°58	13°28	20°26	9°14	S 10
M11	19 16 1	18°34'11	23°38	18°15	3°28	3°18	19°19	26°57	16°55	0°43	12°13	11°55	13°25	20°32	9°16	M11
T 12	19 19 57	19°31'24	7♓39	20°23	4°31	3°58	19°31	27° 3	16°54	0°45	12°R13	11°D53	13°22	20°39	9°18	T 12
W13	19 23 54	20°28'38	21°11	22°30	5°33	4°38	19°43	27° 9	16°53	0°47	12°13	11°54	13°19	20°46	9°20	W13
T 14	19 27 50	21°25'53	4♈17	24°36	6°35	5°17	19°55	27°14	16°52	0°49	12°13	11°55	13°16	20°53	9°22	T 14
F 15	19 31 47	22°23'08	16°59	26°41	7°37	5°57	20° 7	27°20	16°51	0°51	12°13	11°R56	13°13	20°59	9°23	F 15
S 16	19 35 43	23°20'24	29°23	28°45	8°39	6°37	20°20	27°25	16°50	0°54	12°13	11°56	13° 9	21° 6	9°25	S 16
S 17	19 39 40	24°17'42	11♉32	0♌48	9°40	7°17	20°32	27°31	16°49	0°56	12°13	11°54	13° 6	21°13	9°27	S 17
M18	19 43 37	25°15'00	23°31	2°49	10°41	7°56	20°44	27°36	16°48	0°58	12°13	11°50	13° 3	21°19	9°28	M18
T 19	19 47 33	26°12'19	5♊24	4°48	11°42	8°36	20°57	27°42	16°46	1° 0	12°12	11°45	13° 0	21°26	9°30	T 19
W20	19 51 30	27° 9'39	17°15	6°46	12°42	9°15	21° 9	27°47	16°45	1° 2	12°12	11°38	12°57	21°33	9°31	W20
T 21	19 55 26	28° 6'59	29° 8	8°42	13°43	9°55	21°21	27°52	16°44	1° 5	12°12	11°30	12°53	21°40	9°33	T 21
F 22	19 59 23	29° 4'21	11♋ 4	10°37	14°42	10°34	21°34	27°57	16°42	1° 7	12°12	11°22	12°50	21°46	9°34	F 22
S 23	20 3 19	0♌ 1'43	23° 6	12°30	15°42	11°14	21°47	28° 2	16°41	1° 9	12°12	11°15	12°47	21°53	9°36	S 23
S 24	20 7 16	0°59'07	5♌14	14°22	16°41	11°53	21°59	28° 7	16°40	1°11	12°11	11° 9	12°44	22° 0	9°37	S 24
M25	20 11 12	1°56'31	17°31	16°11	17°39	12°33	22°12	28°12	16°38	1°14	12°11	11° 4	12°41	22° 6	9°38	M25
T 26	20 15 9	2°53'56	29°58	17°59	18°38	13°12	22°24	28°17	16°37	1°16	12°11	11° 2	12°38	22°13	9°39	T 26
W27	20 19 6	3°51'21	12♍35	19°46	19°36	13°51	22°37	28°21	16°35	1°18	12°11	11°D 1	12°34	22°20	9°40	W27
T 28	20 23 2	4°48'48	25°26	21°31	20°33	14°30	22°50	28°26	16°34	1°20	12°10	11° 2	12°31	22°27	9°42	T 28
F 29	20 26 59	5°46'15	8♎31	23°14	21°30	15°10	23° 2	28°30	16°32	1°22	12°10	11° 4	12°28	22°33	9°43	F 29
S 30	20 30 55	6°43'43	21°53	24°55	22°27	15°49	23°15	28°35	16°30	1°25	12°10	11° 5	12°25	22°40	9°43	S 30
S 31	20 34 52	7♌41'11	5♏33	26♌35	23♍23	16♋28	23♌28	28♉39	16♓29	1♌27	12♈ 9	11°R 6	12♍22	22♊47	9♉44	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	23n11	1n54	1n23	23n31	0n 3	15n22	1n30	24n 3	0n36	16n29	0n52	17n21	1s59	5s51	0s47	19n56	0s11	10s55	17s 7	6n48	6n20	17n58	13n24	1s 9
S 2	23 7	2s22	2 28	23 43	0 14	14 58	1 27	24 5	0 37	16 26	0 52	17 23	1 59	5 52	0 47	19 56	0 11	10 55	17 7	6 48	6 21	17 58	13 25	1 9
S 3	23 2	6 37	3 27	23 54	0 25	14 33	1 24	24 6	0 37	16 22	0 52	17 24	1 59	5 52	0 47	19 55	0 11	10 55	17 7	6 48	6 22	17 59	13 25	1 9
M 4	22 57	10 38	4 16	24 2	0 35	14 8	1 21	24 7	0 38	16 19	0 52	17 25	1 59	5 52	0 47	19 55	0 11	10 56	17 8	6 49	6 23	17 59	13 26	1 10
T 5	22 52	14 9	4 49	24 8	0 45	13 43	1 18	24 8	0 39	16 15	0 52	17 27	1 59	5 52	0 47	19 54	0 11	10 56	17 8	6 51	6 25	18 0	13 27	1 10
W 6	22 46	16 49	5 4	24 11	0 54	13 17	1 14	24 8	0 39	16 11	0 52	17 28	1 59	5 53	0 47	19 54	0 11	10 56	17 8	6 54	6 26	18 1	13 27	1 10
T 7	22 40	18 23	4 59	24 11	1 3	12 52	1 10	24 9	0 40	16 8	0 52	17 29	1 59	5 53	0 47	19 53	0 11	10 57	17 9	6 57	6 27	18 1	13 28	1 10
F 8	22 34	18 39	4 32	24 8	1 11	12 26	1 7	24 9	0 40	16 4	0 52	17 31	2 0	5 53	0 47	19 53	0 11	10 57	17 9	7 0	6 28	18 2	13 28	1 10
S 9	22 27	17 35	3 46	24 3	1 18	11 59	1 3	24 9	0 41	16 0	0 52	17 32	2 0	5 54	0 47	19 52	0 11	10 57	17 9	7 3	6 29	18 2	13 29	1 10
S 10	22 20	15 20	2 46	23 55	1 24	11 33	0 59	24 9	0 41	15 56	0 52	17 33	2 0	5 54	0 47	19 52	0 11	10 57	17 10	7 5	6 31	18 3	13 29	1 11
M11	22 12	12 9	1 36	23 44	1 30	11 6	0 55	24 9	0 42	15 53	0 52	17 34	2 0	5 54	0 48	19 52	0 11	10 58	17 10	7 6	6 32	18 4	13 30	1 11
T 12	22 4	8 22	0 23	23 30	1 35	10 39	0 50	24 8	0 42	15 49	0 52	17 36	2 0	5 55	0 48	19 51	0 11	10 58	17 11	7 7	6 33	18 4	13 30	1 11
W13	21 56	4 16	0s50	23 14	1 39	10 12	0 46	24 7	0 43	15 45	0 52	17 37	2 0	5 55	0 48	19 51	0 11	10 58	17 11	7 7	6 34	18 5	13 31	1 11
T 14	21 47	0 6	1 58	22 55	1 42	9 45	0 41	24 6	0 43	15 41	0 52	17 38	2 0	5 56	0 48	19 50	0 11	10 59	17 11	7 7	6 36	18 5	13 31	1 11
F 15	21 38	3n57	2 57	22 35	1 45	9 18	0 37	24 5	0 44	15 37	0 52	17 39	2 0	5 56	0 48	19 50	0 11	10 59	17 12	7 6	6 37	18 6	13 31	1 11
S 16	21 28	7 44	3 47	22 12	1 47	8 50	0 32	24 4	0 44	15 33	0 52	17 40	2 0	5 56	0 48	19 49	0 11	10 59	17 12	7 6	6 38	18 6	13 32	1 11
S 17	21 18	11 6	4 26	21 47	1 48	8 23	0 27	24 2	0 45	15 29	0 52	17 41	2 1	5 57	0 48	19 49	0 11	11 0	17 12	7 7	6 39	18 7	13 32	1 12
M18	21 8	13 58	4 53	21 20	1 48	7 55	0 22	24 0	0 45	15 26	0 52	17 42	2 1	5 57	0 48	19 48	0 11	11 0	17 13	7 8	6 40	18 7	13 33	1 12
T 19	20 57	16 14	5 6	20 51	1 48	7 27	0 17	23 58	0 46	15 22	0 52	17 44	2 1	5 58	0 48	19 48	0 11	11 1	17 13	7 10	6 42	18 8	13 33	1 12
W20	20 46	17 48	5 7	20 21	1 47	6 59	0 12	23 56	0 46	15 18	0 52	17 45	2 1	5 58	0 48	19 47	0 11	11 1	17 13	7 13	6 43	18 9	13 33	1 12
T 21	20 35	18 36	4 54	19 49	1 46	6 31	0 6	23 54	0 47	15 14	0 52	17 46	2 1	5 59	0 48	19 47	0 11	11 1	17 14	7 16	6 44	18 9	13 34	1 12
F 22	20 23	18 34	4 28	19 16	1 44	6 3	0 1	23 51	0 47	15 10	0 52	17 47	2 1	6 0	0 48	19 46	0 11	11 2	17 14	7 19	6 45	18 10	13 34	1 12
S 23	20 11	17 43	3 50	18 42	1 41	5 35	0s 5	23 48	0 48	15 5	0 52	17 48	2 1	6 0	0 48	19 46	0 11	11 2	17 15	7 22	6 46	18 10	13 34	1 13
S 24	19 59	16 3	3 2	18 7	1 38	5 7	0 10	23 46	0 48	15 1	0 52	17 49	2 1	6 1	0 48	19 45	0 11	11 3	17 15	7 24	6 48	18 11	13 34	1 13
M25	19 46	13 39	2 4	17 31	1 34	4 38	0 16	23 42	0 49	14 57	0 52	17 49	2 2	6 1	0 48	19 45	0 11	11 3	17 15	7 26	6 49	18 11	13 35	1 13
T 26	19 33	10 34	1 0	16 54	1 30	4 10	0 22	23 39	0 49	14 53	0 52	17 50	2 2	6 2	0 48	19 44	0 11	11 3	17 16	7 27	6 50	18 12	13 35	1 13
W27	19 20	6 59	0n 9	16 16	1 26	3 42	0 28	23 36	0 50	14 49	0 52	17 51	2 2	6 3	0 48	19 44	0 11	11 4	17 16	7 27	6 51	18 12	13 35	1 13
T 28	19 6	3 1	1 18	15 38	1 21	3 13	0 35	23 32	0 50	14 45	0 52	17 52	2 2	6 3	0 48	19 43	0 11	11 4	17 16	7 27	6 53	18 13	13 35	1 13
F 29	18 52	1s10	2 24	14 59	1 15	2 45	0 41	23 28	0 51	14 41	0 52	17 53	2 2	6 4	0 48	19 43	0 11	11 5	17 17	7 26	6 54	18 13	13 35	1 14
S 30	18 38	5 23	3 24	14 20	1 9	2 17	0 47	23 24	0 51	14 37	0 52	17 54	2 2	6 5	0 48	19 43	0 11	11 5	17 17	7 25	6 55	18 14	13 36	1 14
S 31	18n23	9s24	4n15	13n40	1n 3	1n48	0s54	23n20	0n52	14n32	0n52	17n55	2s 2	6s 5	0s48	19n42	0s11	11s 6	17s17	7n25	6n56	18n14	13n36	1s14

Julian Day Number = 2301246.5, Delta T = 105.71 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'51, Lahiri = 18°06'51Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

AUGUST 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
M 1	20 38 48	8♌38'40	19♏32	28♌14	24♍18	17♋ 7	23♌41	28♉43	16°R27	1♌29	12°R 9	11°R 5	12♍18	22♊53	9♉45	M 1
T 2	20 42 45	9°36'10	3♐50	29°50	25°14	17°46	23°54	28°48	16♓25	1°31	12♈ 8	11♍ 4	12°15	23° 0	9°46	T 2
W 3	20 46 41	10°33'41	18°25	1♍26	26° 8	18°25	24° 6	28°52	16°23	1°34	12° 8	11° 1	12°12	23° 7	9°47	W 3
T 4	20 50 38	11°31'13	3♑10	2°59	27° 2	19° 4	24°19	28°56	16°22	1°36	12° 7	10°57	12° 9	23°14	9°47	T 4
F 5	20 54 35	12°28'46	18° 1	4°31	27°56	19°43	24°32	29° 0	16°20	1°38	12° 7	10°53	12° 6	23°20	9°48	F 5
S 6	20 58 31	13°26'20	2♒49	6° 1	28°49	20°22	24°45	29° 3	16°18	1°40	12° 6	10°49	12° 3	23°27	9°48	S 6
S 7	21 2 28	14°23'55	17°26	7°30	29°41	21° 1	24°58	29° 7	16°16	1°42	12° 6	10°47	11°59	23°34	9°49	S 7
M 8	21 6 24	15°21'31	1♓46	8°57	0♎33	21°39	25°11	29°11	16°14	1°44	12° 5	10°45	11°56	23°41	9°49	M 8
T 9	21 10 21	16°19'08	15°44	10°22	1°24	22°18	25°24	29°14	16°12	1°47	12° 5	10°D45	11°53	23°47	9°50	T 9
W10	21 14 17	17°16'47	29°17	11°46	2°14	22°57	25°37	29°18	16°10	1°49	12° 4	10°46	11°50	23°54	9°50	W10
T 11	21 18 14	18°14'28	12♈26	13° 8	3° 4	23°36	25°50	29°21	16° 8	1°51	12° 4	10°47	11°47	24° 1	9°50	T 11
F 12	21 22 10	19°12'10	25°12	14°28	3°53	24°14	26° 3	29°25	16° 6	1°53	12° 3	10°49	11°44	24° 7	9°50	F 12
S 13	21 26 7	20° 9'53	7♉39	15°47	4°41	24°53	26°16	29°28	16° 4	1°55	12° 2	10°50	11°40	24°14	9°50	S 13
S 14	21 30 4	21° 7'38	19°50	17° 4	5°29	25°32	26°29	29°31	16° 2	1°57	12° 2	10°R50	11°37	24°21	9°R51	S 14
M15	21 34 0	22° 5'25	1♊51	18°19	6°16	26°10	26°42	29°34	16° 0	2° 0	12° 1	10°50	11°34	24°28	9°51	M15
T 16	21 37 57	23° 3'14	13°45	19°31	7° 2	26°49	26°55	29°37	15°57	2° 2	12° 0	10°49	11°31	24°34	9°50	T 16
W17	21 41 53	24° 1'04	25°37	20°42	7°47	27°27	27° 8	29°40	15°55	2° 4	12° 0	10°47	11°28	24°41	9°50	W17
T 18	21 45 50	24°58'56	7♋32	21°51	8°31	28° 6	27°21	29°42	15°53	2° 6	11°59	10°45	11°24	24°48	9°50	T 18
F 19	21 49 46	25°56'50	19°32	22°58	9°15	28°44	27°34	29°45	15°51	2° 8	11°58	10°43	11°21	24°54	9°50	F 19
S 20	21 53 43	26°54'46	1♌40	24° 2	9°57	29°23	27°47	29°47	15°49	2°10	11°58	10°40	11°18	25° 1	9°50	S 20
S 21	21 57 39	27°52'43	13°59	25° 4	10°38	0♌ 1	28° 0	29°50	15°46	2°12	11°57	10°39	11°15	25° 8	9°49	S 21
M22	22 1 36	28°50'42	26°31	26° 3	11°19	0°39	28°13	29°52	15°44	2°14	11°56	10°38	11°12	25°15	9°49	M22
T 23	22 5 33	29°48'42	9♍15	27° 0	11°58	1°18	28°26	29°54	15°42	2°16	11°55	10°D37	11° 9	25°21	9°48	T 23
W24	22 9 29	0♍46'44	22°13	27°54	12°36	1°56	28°39	29°56	15°40	2°18	11°54	10°38	11° 5	25°28	9°48	W24
T 25	22 13 26	1°44'47	5♎25	28°45	13°13	2°34	28°52	29°58	15°37	2°20	11°54	10°38	11° 2	25°35	9°47	T 25
F 26	22 17 22	2°42'52	18°49	29°32	13°49	3°12	29° 5	0♊ 0	15°35	2°22	11°53	10°39	10°59	25°41	9°46	F 26
S 27	22 21 19	3°40'58	2♏27	0♎17	14°24	3°50	29°18	0° 2	15°33	2°24	11°52	10°40	10°56	25°48	9°46	S 27
S 28	22 25 15	4°39'06	16°17	0°57	14°57	4°28	29°31	0° 4	15°30	2°26	11°51	10°40	10°53	25°55	9°45	S 28
M29	22 29 12	5°37'15	0♐18	1°34	15°29	5° 6	29°44	0° 5	15°28	2°28	11°50	10°R40	10°50	26° 2	9°44	M29
T 30	22 33 8	6°35'26	14°29	2° 7	16° 0	5°44	29°57	0° 7	15°26	2°30	11°49	10°40	10°46	26° 8	9°43	T 30
W31	22 37 5	7♍33'38	28♐47	2♎35	16♎29	6♌22	0♍10	0♊ 8	15♓23	2♌32	11♈48	10♍40	10♍43	26♊15	9♉42	W31

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	18n 8	12s59	4n51	13n 0	0n57	1n20	1s 1	23n15	0n52	14n28	0n52	17n55	2s 3	6s 6	0s48	19n42	0s11	11s 6	17s18	7n25	6n57	18n15	13n36	1s14
T 2	17 53	15 53	5 10	12 20	0 50	0 52	1 7	23 11	0 53	14 24	0 52	17 56	2 3	6 7	0 48	19 41	0 11	11 7	17 18	7 26	6 59	18 15	13 36	1 14
W 3	17 38	17 50	5 10	11 39	0 42	0 24	1 14	23 6	0 53	14 20	0 52	17 57	2 3	6 7	0 48	19 41	0 11	11 7	17 18	7 27	7 0	18 16	13 36	1 14
T 4	17 22	18 38	4 49	10 59	0 35	0s 4	1 21	23 1	0 54	14 15	0 52	17 58	2 3	6 8	0 48	19 40	0 11	11 7	17 19	7 29	7 1	18 16	13 36	1 15
F 5	17 6	18 9	4 10	10 18	0 27	0 32	1 29	22 56	0 54	14 11	0 52	17 58	2 3	6 9	0 48	19 40	0 11	11 8	17 19	7 30	7 2	18 17	13 36	1 15
S 6	16 49	16 26	3 13	9 37	0 19	1 0	1 36	22 51	0 55	14 7	0 52	17 59	2 3	6 10	0 48	19 39	0 11	11 8	17 19	7 32	7 4	18 17	13 36	1 15
S 7	16 33	13 40	2 4	8 57	0 11	1 27	1 43	22 45	0 55	14 3	0 52	18 0	2 4	6 10	0 48	19 39	0 11	11 9	17 20	7 33	7 5	18 18	13 36	1 15
M 8	16 16	10 6	0 49	8 16	0 3	1 55	1 51	22 39	0 56	13 58	0 52	18 0	2 4	6 11	0 48	19 38	0 11	11 9	17 20	7 33	7 6	18 18	13 36	1 15
T 9	15 59	6 4	0s27	7 36	0s 6	2 22	1 58	22 34	0 56	13 54	0 52	18 1	2 4	6 12	0 48	19 38	0 11	11 10	17 20	7 33	7 7	18 19	13 36	1 15
W10	15 41	1 49	1 40	6 56	0 15	2 49	2 6	22 28	0 56	13 50	0 52	18 1	2 4	6 13	0 48	19 37	0 11	11 10	17 20	7 33	7 8	18 19	13 36	1 16
T 11	15 24	2n23	2 46	6 16	0 24	3 16	2 14	22 22	0 57	13 45	0 52	18 2	2 4	6 13	0 48	19 37	0 11	11 11	17 21	7 32	7 10	18 20	13 36	1 16
F 12	15 6	6 21	3 41	5 37	0 33	3 43	2 22	22 15	0 57	13 41	0 52	18 3	2 4	6 14	0 48	19 36	0 11	11 11	17 21	7 32	7 11	18 20	13 36	1 16
S 13	14 48	9 56	4 24	4 58	0 42	4 10	2 30	22 9	0 58	13 36	0 52	18 3	2 5	6 15	0 48	19 36	0 11	11 12	17 21	7 31	7 12	18 21	13 36	1 16
S 14	14 29	13 0	4 54	4 20	0 52	4 36	2 38	22 2	0 58	13 32	0 52	18 4	2 5	6 16	0 48	19 35	0 11	11 12	17 22	7 31	7 13	18 21	13 35	1 16
M15	14 11	15 29	5 11	3 42	1 1	5 2	2 46	21 55	0 59	13 28	0 52	18 4	2 5	6 17	0 48	19 35	0 11	11 13	17 22	7 31	7 14	18 22	13 35	1 16
T 16	13 52	17 17	5 15	3 4	1 11	5 28	2 55	21 48	0 59	13 23	0 52	18 5	2 5	6 18	0 48	19 34	0 11	11 13	17 22	7 32	7 16	18 22	13 35	1 17
W17	13 33	18 20	5 5	2 28	1 20	5 54	3 3	21 41	1 0	13 19	0 52	18 5	2 5	6 18	0 48	19 34	0 11	11 14	17 22	7 32	7 17	18 23	13 35	1 17
T 18	13 13	18 35	4 42	1 52	1 30	6 19	3 12	21 34	1 0	13 14	0 52	18 5	2 5	6 19	0 48	19 34	0 11	11 15	17 23	7 33	7 18	18 23	13 35	1 17
F 19	12 54	18 0	4 6	1 16	1 40	6 44	3 20	21 27	1 1	13 10	0 53	18 6	2 6	6 20	0 49	19 33	0 11	11 15	17 23	7 34	7 19	18 24	13 34	1 17
S 20	12 34	16 36	3 19	0 42	1 50	7 9	3 29	21 19	1 1	13 5	0 53	18 6	2 6	6 21	0 49	19 33	0 11	11 16	17 23	7 35	7 20	18 24	13 34	1 17
S 21	12 14	14 24	2 22	0 8	1 59	7 33	3 38	21 12	1 2	13 1	0 53	18 6	2 6	6 22	0 49	19 32	0 11	11 16	17 24	7 35	7 22	18 24	13 34	1 17
M22	11 54	11 30	1 17	0s24	2 9	7 57	3 47	21 4	1 2	12 56	0 53	18 7	2 6	6 23	0 49	19 32	0 11	11 17	17 24	7 36	7 23	18 25	13 34	1 18
T 23	11 34	8 0	0 8	0 55	2 19	8 21	3 56	20 56	1 2	12 52	0 53	18 7	2 6	6 24	0 49	19 31	0 11	11 17	17 24	7 36	7 24	18 25	13 33	1 18
W24	11 13	4 4	1n 4	1 26	2 28	8 44	4 5	20 48	1 3	12 48	0 53	18 7	2 6	6 25	0 49	19 31	0 11	11 18	17 24	7 36	7 25	18 26	13 33	1 18
T 25	10 53	0s 7	2 13	1 55	2 38	9 7	4 14	20 39	1 3	12 43	0 53	18 8	2 7	6 26	0 49	19 30	0 11	11 18	17 25	7 36	7 27	18 26	13 33	1 18
F 26	10 32	4 22	3 16	2 22	2 47	9 30	4 23	20 31	1 4	12 39	0 53	18 8	2 7	6 26	0 49	19 30	0 11	11 19	17 25	7 35	7 28	18 27	13 32	1 18
S 27	10 11	8 27	4 9	2 48	2 56	9 52	4 32	20 22	1 4	12 34	0 53	18 8	2 7	6 27	0 49	19 30	0 11	11 19	17 25	7 35	7 29	18 27	13 32	1 18
S 28	9 50	12 8	4 49	3 12	3 5	10 13	4 41	20 14	1 5	12 29	0 53	18 8	2 7	6 28	0 49	19 29	0 11	11 20	17 25	7 35	7 30	18 28	13 31	1 19
M29	9 28	15 10	5 12	3 35	3 13	10 34	4 50	20 5	1 5	12 25	0 53	18 8	2 7	6 29	0 49	19 29	0 11	11 20	17 25	7 35	7 31	18 28	13 31	1 19
T 30	9 7	17 21	5 16	3 55	3 22	10 54	5 0	19 56	1 6	12 20	0 53	18 8	2 7	6 30	0 49	19 28	0 11	11 21	17 26	7 35	7 33	18 28	13 31	1 19
W31	8n45	18s28	5n 1	4s14	3s29	11s14	5s 9	19n47	1n 6	12n16	0n53	18n 9	2s 8	6s31	0s49	19n28	0s11	11s22	17s26	7n35	7n34	18n29	13n30	1s19

Julian Day Number = 2301277.5, Delta T = 105.58 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'04, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'55, Lahiri = 18°06'55Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

SEPTEMBER 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	22 41 1	8♍31'52	13♉11	2♎58	16♎56	7♌ 0	0♍23	0♊ 9	15°R21	2♌34	11°R47	10°R40	10♍40	26♊22	9°R41	T 1
F 2	22 44 58	9°30'07	27°35	3°17	17°22	7°38	0°36	0°11	15♓18	2°36	11♈46	10♍40	10°37	26°29	9♉40	F 2
S 3	22 48 55	10°28'24	11♒55	3°30	17°47	8°16	0°49	0°12	15°16	2°37	11°45	10°D40	10°34	26°35	9°39	S 3
S 4	22 52 51	11°26'42	26° 8	3°37	18° 9	8°54	1° 2	0°13	15°14	2°39	11°44	10°40	10°30	26°42	9°38	S 4
M 5	22 56 48	12°25'02	10♓ 8	3°R39	18°30	9°32	1°15	0°13	15°11	2°41	11°43	10°R40	10°27	26°49	9°37	M 5
T 6	23 0 44	13°23'24	23°51	3°34	18°49	10°10	1°28	0°14	15° 9	2°43	11°42	10°40	10°24	26°55	9°35	T 6
W 7	23 4 41	14°21'48	7♈16	3°23	19° 6	10°47	1°41	0°15	15° 6	2°45	11°41	10°40	10°21	27° 2	9°34	W 7
T 8	23 8 37	15°20'14	20°21	3° 5	19°21	11°25	1°54	0°15	15° 4	2°46	11°40	10°39	10°18	27° 9	9°32	T 8
F 9	23 12 34	16°18'41	3♉ 7	2°40	19°35	12° 3	2° 7	0°16	15° 2	2°48	11°39	10°38	10°15	27°16	9°31	F 9
S 10	23 16 30	17°17'11	15°34	2° 8	19°46	12°40	2°20	0°16	14°59	2°50	11°38	10°38	10°11	27°22	9°29	S 10
S 11	23 20 27	18°15'44	27°47	1°30	19°55	13°18	2°32	0°16	14°57	2°51	11°37	10°37	10° 8	27°29	9°28	S 11
M12	23 24 24	19°14'18	9♊49	0°45	20° 2	13°56	2°45	0°R16	14°54	2°53	11°36	10°36	10° 5	27°36	9°26	M12
T 13	23 28 20	20°12'54	21°44	29♍54	20° 6	14°33	2°58	0°16	14°52	2°55	11°35	10°D36	10° 2	27°42	9°25	T 13
W14	23 32 17	21°11'33	3♋36	28°58	20° 9	15°11	3°11	0°16	14°50	2°56	11°34	10°37	9°59	27°49	9°23	W14
T 15	23 36 13	22°10'14	15°32	27°58	20°R 9	15°48	3°23	0°16	14°47	2°58	11°33	10°37	9°55	27°56	9°21	T 15
F 16	23 40 10	23° 8'58	27°33	26°54	20° 7	16°26	3°36	0°15	14°45	3° 0	11°32	10°38	9°52	28° 3	9°19	F 16
S 17	23 44 6	24° 7'43	9♌46	25°49	20° 2	17° 3	3°49	0°15	14°43	3° 1	11°31	10°40	9°49	28° 9	9°17	S 17
S 18	23 48 3	25° 6'31	22°14	24°44	19°55	17°40	4° 1	0°14	14°40	3° 3	11°30	10°41	9°46	28°16	9°15	S 18
M19	23 51 59	26° 5'20	4♍58	23°40	19°46	18°18	4°14	0°14	14°38	3° 4	11°29	10°R41	9°43	28°23	9°13	M19
T 20	23 55 56	27° 4'12	18° 0	22°38	19°34	18°55	4°26	0°13	14°35	3° 6	11°28	10°41	9°40	28°29	9°11	T 20
W21	23 59 53	28° 3'06	1♎20	21°42	19°20	19°32	4°39	0°12	14°33	3° 7	11°26	10°40	9°36	28°36	9° 9	W21
T 22	0 3 49	29° 2'02	14°58	20°52	19° 4	20° 9	4°51	0°11	14°31	3° 9	11°25	10°39	9°33	28°43	9° 7	T 22
F 23	0 7 46	0♎ 1'00	28°50	20° 9	18°45	20°47	5° 4	0°10	14°29	3°10	11°24	10°36	9°30	28°50	9° 5	F 23
S 24	0 11 42	0°59'59	12♏53	19°35	18°24	21°24	5°16	0° 8	14°26	3°11	11°23	10°33	9°27	28°56	9° 3	S 24
S 25	0 15 39	1°59'01	27° 3	19°10	18° 1	22° 1	5°28	0° 7	14°24	3°13	11°22	10°31	9°24	29° 3	9° 0	S 25
M26	0 19 35	2°58'05	11♐18	18°55	17°36	22°38	5°41	0° 6	14°22	3°14	11°21	10°28	9°21	29°10	8°58	M26
T 27	0 23 32	3°57'10	25°32	18°D51	17° 9	23°15	5°53	0° 4	14°20	3°15	11°20	10°27	9°17	29°16	8°56	T 27
W28	0 27 28	4°56'17	9♑45	18°58	16°40	23°52	6° 5	0° 2	14°17	3°17	11°18	10°D27	9°14	29°23	8°53	W28
T 29	0 31 25	5°55'26	23°52	19°14	16° 9	24°29	6°17	0° 1	14°15	3°18	11°17	10°28	9°11	29°30	8°51	T 29
F 30	0 35 21	6♎54'36	7♒54	19♍41	15♎37	25♌ 6	6♍29	29♉59	14♓13	3♌19	11♈16	10♍29	9♍ 8	29♊37	8♉49	F 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
T 1	8n23	18s24	4n28	4s30	3s37	11s34	5s18	19n38	1n 6	12n11	0n53	18n 9	2s 8	6s32	0s49	19n27	0s11	11s22	17s26	7n35	7n35	18n29	13n30	1s19
F 2	8 1	17 9	3 37	4 43	3 44	11 52	5 28	19 29	1 7	12 7	0 53	18 9	2 8	6 33	0 49	19 27	0 11	11 23	17 26	7 35	7 36	18 30	13 29	1 19
S 3	7 39	14 48	2 33	4 54	3 50	12 10	5 37	19 19	1 7	12 2	0 54	18 9	2 8	6 34	0 49	19 27	0 11	11 23	17 27	7 35	7 37	18 30	13 29	1 20
S 4	7 17	11 35	1 20	5 2	3 55	12 27	5 46	19 10	1 8	11 58	0 54	18 9	2 8	6 35	0 49	19 26	0 11	11 24	17 27	7 35	7 39	18 30	13 28	1 20
M 5	6 55	7 44	0 3	5 7	4 0	12 44	5 55	19 0	1 8	11 53	0 54	18 9	2 9	6 36	0 49	19 26	0 11	11 24	17 27	7 35	7 40	18 31	13 28	1 20
T 6	6 33	3 33	1s13	5 8	4 3	13 0	6 4	18 50	1 9	11 49	0 54	18 9	2 9	6 37	0 49	19 25	0 11	11 25	17 27	7 35	7 41	18 31	13 27	1 20
W 7	6 10	0n43	2 22	5 6	4 6	13 15	6 13	18 40	1 9	11 44	0 54	18 9	2 9	6 38	0 49	19 25	0 11	11 25	17 27	7 35	7 42	18 32	13 26	1 20
T 8	5 47	4 50	3 23	5 0	4 7	13 29	6 22	18 30	1 9	11 40	0 54	18 9	2 9	6 39	0 49	19 25	0 11	11 26	17 27	7 35	7 43	18 32	13 26	1 20
F 9	5 25	8 38	4 12	4 50	4 7	13 42	6 31	18 20	1 10	11 35	0 54	18 9	2 9	6 39	0 49	19 24	0 11	11 26	17 28	7 36	7 45	18 33	13 25	1 21
S 10	5 2	11 57	4 47	4 36	4 6	13 54	6 40	18 10	1 10	11 31	0 54	18 8	2 9	6 40	0 49	19 24	0 11	11 27	17 28	7 36	7 46	18 33	13 25	1 21
S 11	4 39	14 41	5 9	4 18	4 2	14 6	6 49	17 59	1 11	11 26	0 54	18 8	2 10	6 41	0 49	19 23	0 11	11 27	17 28	7 36	7 47	18 33	13 24	1 21
M12	4 16	16 45	5 17	3 55	3 57	14 16	6 57	17 49	1 11	11 22	0 54	18 8	2 10	6 42	0 49	19 23	0 11	11 28	17 28	7 36	7 48	18 34	13 23	1 21
T 13	3 53	18 4	5 11	3 29	3 50	14 25	7 5	17 38	1 12	11 17	0 54	18 8	2 10	6 43	0 49	19 23	0 11	11 29	17 28	7 36	7 49	18 34	13 22	1 21
W14	3 30	18 35	4 52	2 59	3 42	14 33	7 13	17 28	1 12	11 12	0 54	18 8	2 10	6 44	0 49	19 22	0 11	11 29	17 28	7 36	7 51	18 34	13 22	1 21
T 15	3 7	18 17	4 20	2 25	3 31	14 40	7 20	17 17	1 12	11 8	0 55	18 8	2 10	6 45	0 49	19 22	0 11	11 30	17 28	7 36	7 52	18 35	13 21	1 22
F 16	2 44	17 9	3 37	1 48	3 18	14 46	7 28	17 6	1 13	11 3	0 55	18 7	2 10	6 46	0 49	19 22	0 11	11 30	17 29	7 36	7 53	18 35	13 20	1 22
S 17	2 20	15 13	2 43	1 9	3 4	14 51	7 34	16 55	1 13	10 59	0 55	18 7	2 11	6 47	0 49	19 21	0 11	11 31	17 29	7 35	7 54	18 36	13 20	1 22
S 18	1 57	12 33	1 40	0 28	2 48	14 54	7 41	16 44	1 14	10 54	0 55	18 7	2 11	6 48	0 49	19 21	0 11	11 31	17 29	7 35	7 55	18 36	13 19	1 22
M19	1 33	9 13	0 32	0n13	2 30	14 56	7 47	16 33	1 14	10 50	0 55	18 6	2 11	6 49	0 49	19 20	0 11	11 32	17 29	7 34	7 57	18 36	13 18	1 22
T 20	1 10	5 22	0n40	0 55	2 12	14 57	7 52	16 22	1 14	10 46	0 55	18 6	2 11	6 50	0 49	19 20	0 11	11 32	17 29	7 34	7 58	18 37	13 17	1 22
W21	0 47	1 10	1 52	1 35	1 52	14 56	7 57	16 11	1 15	10 41	0 55	18 6	2 11	6 50	0 49	19 20	0 11	11 33	17 29	7 35	7 59	18 37	13 16	1 22
T 22	0 23	3s10	2 58	2 13	1 32	14 54	8 2	15 59	1 15	10 37	0 55	18 5	2 11	6 51	0 49	19 20	0 11	11 33	17 29	7 36	8 0	18 37	13 16	1 23
F 23	0s 0	7 25	3 55	2 49	1 12	14 50	8 6	15 48	1 16	10 32	0 55	18 5	2 12	6 52	0 49	19 19	0 11	11 34	17 29	7 36	8 1	18 38	13 15	1 23
S 24	0 24	11 18	4 39	3 21	0 51	14 45	8 9	15 36	1 16	10 28	0 56	18 5	2 12	6 53	0 49	19 19	0 11	11 34	17 29	7 38	8 3	18 38	13 14	1 23
S 25	0 47	14 35	5 6	3 49	0 32	14 38	8 11	15 24	1 16	10 23	0 56	18 4	2 12	6 54	0 48	19 19	0 11	11 35	17 29	7 39	8 4	18 38	13 13	1 23
M26	1 11	16 59	5 14	4 12	0 13	14 30	8 13	15 13	1 17	10 19	0 56	18 4	2 12	6 55	0 48	19 18	0 11	11 35	17 29	7 39	8 5	18 39	13 12	1 23
T 27	1 34	18 21	5 4	4 30	0n 5	14 20	8 14	15 1	1 17	10 14	0 56	18 3	2 12	6 56	0 48	19 18	0 11	11 36	17 29	7 40	8 6	18 39	13 11	1 23
W28	1 58	18 34	4 34	4 43	0 22	14 9	8 14	14 49	1 18	10 10	0 56	18 3	2 12	6 56	0 48	19 18	0 11	11 36	17 30	7 40	8 7	18 39	13 10	1 23
T 29	2 21	17 37	3 49	4 51	0 38	13 57	8 14	14 37	1 18	10 6	0 56	18 2	2 13	6 57	0 48	19 17	0 11	11 37	17 30	7 40	8 9	18 40	13 10	1 24
F 30	2s45	15s36	2n50	4n53	0n52	13s43	8s12	14n25	1n18	10n 1	0n56	18n 2	2s13	6s58	0s48	19n17	0s11	11s37	17s30	7n39	8n10	18n40	13n 9	1s24

Julian Day Number = 2301308.5, Delta T = 105.44 sec
Ecliptic obliquity = 23°29'26, Nutation = - 0°00'05, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 18°59'59, Lahiri = 18°07'00Greg. Calendar

OCTOBER 1588 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
S 1	0 39 18	7♎53'48	21♒47	20♍17	15°R 3	25♌42	6♍41	29°R57	14°R11	3♌20	11°R15	10♍31	9♍ 5	29♊43	8°R46	S 1
S 2	0 43 15	8°53'02	5♓32	21° 2	14♎29	26°19	6°53	29♉55	14♓ 9	3°21	11♈14	10°R32	9° 1	29°50	8♉43	S 2
M 3	0 47 11	9°52'18	19° 5	21°55	13°53	26°56	7° 5	29°53	14° 7	3°22	11°13	10°32	8°58	29°57	8°41	M 3
T 4	0 51 8	10°51'36	2♈27	22°56	13°17	27°33	7°17	29°50	14° 5	3°24	11°12	10°30	8°55	0♋ 3	8°38	T 4
W 5	0 55 4	11°50'56	15°34	24° 3	12°40	28° 9	7°29	29°48	14° 2	3°25	11°10	10°27	8°52	0°10	8°36	W 5
T 6	0 59 1	12°50'18	28°28	25°17	12° 3	28°46	7°41	29°45	14° 0	3°26	11° 9	10°22	8°49	0°17	8°33	T 6
F 7	1 2 57	13°49'42	11♉ 6	26°35	11°26	29°23	7°52	29°43	13°58	3°27	11° 8	10°16	8°46	0°24	8°30	F 7
S 8	1 6 54	14°49'08	23°30	27°58	10°50	29°59	8° 4	29°40	13°56	3°28	11° 7	10°10	8°42	0°30	8°27	S 8
S 9	1 10 50	15°48'36	5♊41	29°25	10°14	0♍36	8°16	29°37	13°55	3°29	11° 6	10° 4	8°39	0°37	8°25	S 9
M10	1 14 47	16°48'07	17°42	0♎55	9°39	1°12	8°27	29°35	13°53	3°30	11° 5	9°59	8°36	0°44	8°22	M10
T 11	1 18 44	17°47'40	29°36	2°27	9° 5	1°49	8°39	29°32	13°51	3°30	11° 3	9°56	8°33	0°50	8°19	T 11
W12	1 22 40	18°47'16	11♋27	4° 2	8°32	2°25	8°50	29°29	13°49	3°31	11° 2	9°54	8°30	0°57	8°16	W12
T 13	1 26 37	19°46'53	23°21	5°39	8° 1	3° 2	9° 1	29°26	13°47	3°32	11° 1	9°D54	8°27	1° 4	8°13	T 13
F 14	1 30 33	20°46'33	5♌21	7°17	7°31	3°38	9°13	29°22	13°45	3°33	11° 0	9°55	8°23	1°11	8°10	F 14
S 15	1 34 30	21°46'15	17°34	8°56	7° 3	4°14	9°24	29°19	13°44	3°34	10°59	9°56	8°20	1°17	8° 8	S 15
S 16	1 38 26	22°46'00	0♍ 3	10°36	6°38	4°50	9°35	29°16	13°42	3°34	10°58	9°58	8°17	1°24	8° 5	S 16
M17	1 42 23	23°45'46	12°53	12°16	6°14	5°27	9°46	29°12	13°40	3°35	10°57	9°R58	8°14	1°31	8° 2	M17
T 18	1 46 19	24°45'35	26° 7	13°57	5°52	6° 3	9°57	29° 9	13°39	3°36	10°55	9°57	8°11	1°37	7°59	T 18
W19	1 50 16	25°45'26	9♎44	15°38	5°33	6°39	10° 8	29° 5	13°37	3°36	10°54	9°53	8° 7	1°44	7°56	W19
T 20	1 54 13	26°45'19	23°45	17°19	5°16	7°15	10°19	29° 1	13°35	3°37	10°53	9°48	8° 4	1°51	7°53	T 20
F 21	1 58 9	27°45'14	8♏ 4	19° 0	5° 1	7°51	10°29	28°58	13°34	3°37	10°52	9°41	8° 1	1°58	7°50	F 21
S 22	2 2 6	28°45'11	22°36	20°41	4°49	8°27	10°40	28°54	13°32	3°38	10°51	9°33	7°58	2° 4	7°47	S 22
S 23	2 6 2	29°45'10	7♐15	22°22	4°39	9° 3	10°50	28°50	13°31	3°38	10°50	9°25	7°55	2°11	7°43	S 23
M24	2 9 59	0♏45'10	21°52	24° 2	4°31	9°39	11° 1	28°46	13°29	3°39	10°49	9°18	7°52	2°18	7°40	M24
T 25	2 13 55	1°45'13	6♑23	25°42	4°26	10°14	11°11	28°42	13°28	3°39	10°48	9°13	7°48	2°24	7°37	T 25
W26	2 17 52	2°45'16	20°41	27°22	4°24	10°50	11°22	28°38	13°27	3°40	10°47	9°11	7°45	2°31	7°34	W26
T 27	2 21 48	3°45'22	4♒46	29° 2	4°D24	11°26	11°32	28°33	13°25	3°40	10°46	9°D10	7°42	2°38	7°31	T 27
F 28	2 25 45	4°45'29	18°35	0♏41	4°26	12° 2	11°42	28°29	13°24	3°40	10°45	9°11	7°39	2°44	7°28	F 28
S 29	2 29 42	5°45'37	2♓10	2°19	4°31	12°37	11°52	28°25	13°23	3°41	10°44	9°R11	7°36	2°51	7°25	S 29
S 30	2 33 38	6°45'47	15°32	3°58	4°38	13°13	12° 2	28°21	13°22	3°41	10°42	9°11	7°32	2°58	7°22	S 30
M31	2 37 35	7♏45'58	28♓42	5♏36	4♎47	13♍48	12♍12	28♉16	13♓21	3♌41	10♈41	9♍10	7♍29	3♋ 5	7♉19	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	3s 8	12s41	1n41	4n51	1n 5	13s27	8s10	14n13	1n19	9n57	0n56	18n 1	2s13	6s59	0s48	19n17	0s11	11s38	17s30	7n38	8n11	18n40	13n 8	1s24
S 2	3 32	9 5	0 27	4 44	1 16	13 10	8 6	14 1	1 19	9 53	0 57	18 1	2 13	7 0	0 48	19 17	0 11	11 38	17 30	7 38	8 12	18 41	13 7	1 24
M 3	3 55	5 3	0s47	4 32	1 26	12 53	8 2	13 49	1 20	9 48	0 57	18 0	2 13	7 1	0 48	19 16	0 11	11 38	17 30	7 38	8 13	18 41	13 6	1 24
T 4	4 18	0 49	1 57	4 16	1 35	12 34	7 57	13 36	1 20	9 44	0 57	17 59	2 13	7 1	0 48	19 16	0 10	11 39	17 30	7 39	8 15	18 41	13 5	1 24
W 5	4 42	3n23	3 0	3 56	1 42	12 14	7 51	13 24	1 20	9 40	0 57	17 59	2 13	7 2	0 48	19 16	0 10	11 39	17 30	7 40	8 16	18 42	13 4	1 24
T 6	5 5	7 20	3 52	3 32	1 48	11 53	7 44	13 11	1 21	9 35	0 57	17 58	2 14	7 3	0 48	19 16	0 10	11 40	17 30	7 42	8 17	18 42	13 3	1 25
F 7	5 28	10 53	4 32	3 5	1 53	11 31	7 36	12 59	1 21	9 31	0 57	17 57	2 14	7 4	0 48	19 15	0 10	11 40	17 30	7 44	8 18	18 42	13 2	1 25
S 8	5 51	13 53	4 58	2 35	1 56	11 9	7 27	12 46	1 22	9 27	0 57	17 57	2 14	7 4	0 48	19 15	0 10	11 41	17 30	7 46	8 19	18 43	13 1	1 25
S 9	6 14	16 13	5 10	2 3	1 58	10 46	7 18	12 34	1 22	9 23	0 58	17 56	2 14	7 5	0 48	19 15	0 10	11 41	17 30	7 49	8 21	18 43	13 0	1 25
M10	6 37	17 48	5 8	1 28	2 0	10 22	7 8	12 21	1 22	9 19	0 58	17 55	2 14	7 6	0 48	19 15	0 10	11 41	17 30	7 50	8 22	18 43	12 59	1 25
T 11	7 0	18 37	4 53	0 52	2 0	9 59	6 57	12 8	1 23	9 14	0 58	17 55	2 14	7 6	0 48	19 15	0 10	11 42	17 29	7 52	8 23	18 44	12 58	1 25
W12	7 23	18 36	4 25	0 14	2 0	9 35	6 45	11 56	1 23	9 10	0 58	17 54	2 14	7 7	0 48	19 14	0 10	11 42	17 29	7 52	8 24	18 44	12 57	1 25
T 13	7 45	17 45	3 46	0s26	1 59	9 12	6 33	11 43	1 24	9 6	0 58	17 53	2 14	7 8	0 48	19 14	0 10	11 43	17 29	7 52	8 25	18 44	12 56	1 26
F 14	8 8	16 7	2 57	1 6	1 57	8 49	6 21	11 30	1 24	9 2	0 58	17 52	2 14	7 9	0 48	19 14	0 10	11 43	17 29	7 52	8 27	18 44	12 55	1 26
S 15	8 30	13 43	1 58	1 47	1 55	8 26	6 7	11 17	1 24	8 58	0 58	17 51	2 15	7 9	0 48	19 14	0 10	11 43	17 29	7 52	8 28	18 45	12 54	1 26
S 16	8 52	10 39	0 53	2 29	1 52	8 3	5 54	11 4	1 25	8 54	0 59	17 51	2 15	7 10	0 48	19 14	0 10	11 44	17 29	7 51	8 29	18 45	12 53	1 26
M17	9 15	6 59	0n16	3 12	1 48	7 41	5 40	10 51	1 25	8 50	0 59	17 50	2 15	7 10	0 48	19 14	0 10	11 44	17 29	7 51	8 30	18 45	12 51	1 26
T 18	9 37	2 52	1 26	3 55	1 44	7 19	5 26	10 38	1 26	8 46	0 59	17 49	2 15	7 11	0 48	19 13	0 10	11 44	17 29	7 51	8 31	18 45	12 50	1 26
W19	9 58	1s31	2 34	4 38	1 40	6 59	5 12	10 25	1 26	8 42	0 59	17 48	2 15	7 12	0 48	19 13	0 10	11 45	17 29	7 53	8 32	18 46	12 49	1 26
T 20	10 20	5 55	3 34	5 21	1 35	6 39	4 57	10 12	1 26	8 38	0 59	17 47	2 15	7 12	0 48	19 13	0 10	11 45	17 29	7 55	8 34	18 46	12 48	1 26
F 21	10 42	10 6	4 22	6 4	1 30	6 19	4 43	9 59	1 27	8 34	0 59	17 46	2 15	7 13	0 48	19 13	0 10	11 45	17 29	7 57	8 35	18 46	12 47	1 26
S 22	11 3	13 44	4 53	6 47	1 25	6 1	4 28	9 46	1 27	8 30	1 0	17 45	2 15	7 13	0 48	19 13	0 10	11 46	17 29	8 0	8 36	18 47	12 46	1 27
S 23	11 25	16 32	5 6	7 30	1 19	5 44	4 14	9 33	1 28	8 26	1 0	17 44	2 15	7 14	0 48	19 13	0 10	11 46	17 28	8 3	8 37	18 47	12 45	1 27
M24	11 46	18 16	4 59	8 12	1 13	5 28	3 59	9 20	1 28	8 22	1 0	17 44	2 15	7 14	0 48	19 13	0 10	11 46	17 28	8 6	8 38	18 47	12 44	1 27
T 25	12 7	18 47	4 33	8 55	1 7	5 12	3 45	9 6	1 28	8 19	1 0	17 43	2 15	7 15	0 48	19 13	0 10	11 47	17 28	8 8	8 40	18 47	12 43	1 27
W26	12 27	18 6	3 50	9 36	1 1	4 58	3 31	8 53	1 29	8 15	1 0	17 42	2 15	7 15	0 48	19 12	0 10	11 47	17 28	8 9	8 41	18 48	12 42	1 27
T 27	12 48	16 18	2 54	10 18	0 55	4 45	3 16	8 40	1 29	8 11	1 0	17 41	2 15	7 16	0 48	19 12	0 10	11 47	17 28	8 9	8 42	18 48	12 41	1 27
F 28	13 8	13 34	1 48	10 59	0 48	4 33	3 2	8 27	1 29	8 8	1 1	17 40	2 16	7 16	0 48	19 12	0 10	11 47	17 28	8 9	8 43	18 48	12 39	1 27
S 29	13 28	10 8	0 38	11 39	0 42	4 23	2 49	8 13	1 30	8 4	1 1	17 39	2 16	7 17	0 48	19 12	0 10	11 48	17 28	8 8	8 44	18 48	12 38	1 27
S 30	13 48	6 14	0s34	12 19	0 35	4 13	2 35	8 0	1 30	8 0	1 1	17 38	2 16	7 17	0 48	19 12	0 10	11 48	17 27	8 8	8 46	18 49	12 37	1 27
M31	14s 8	2s 5	1s42	12s58	0n29	4s 4	2s22	7n47	1n31	7n57	1n 1	17n37	2s16	7s17	0s48	19n12	0s10	11s48	17s27	8n 9	8n47	18n49	12n36	1s27

Julian Day Number = 2301338.5, Delta T = 105.31 sec
Ecliptic obliquity = 23°29'26, Nutation = - 0°00'07, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°00'03, Lahiri = 18°07'04Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

NOVEMBER 1588 GC — 00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	2 41 31	8♏46'11	11♈40	7♏13	4♎59	14♍24	12♍21	28°R12	13°R20	3♌41	10°R40	9°R 5	7♍26	3♋11	7°R16	T 1
W 2	2 45 28	9°46'26	24°27	8°50	5°12	14°59	12°31	28♉ 7	13♓19	3°41	10♈39	8♍58	7°23	3°18	7♉13	W 2
T 3	2 49 24	10°46'43	7♉ 4	10°27	5°28	15°34	12°40	28° 3	13°18	3°42	10°38	8°48	7°20	3°25	7° 9	T 3
F 4	2 53 21	11°47'01	19°30	12° 3	5°46	16°10	12°50	27°58	13°17	3°42	10°37	8°37	7°17	3°31	7° 6	F 4
S 5	2 57 17	12°47'21	1♊45	13°39	6° 5	16°45	12°59	27°53	13°16	3°42	10°37	8°24	7°13	3°38	7° 3	S 5
S 6	3 1 14	13°47'43	13°51	15°15	6°27	17°20	13° 8	27°49	13°15	3°R42	10°36	8°12	7°10	3°45	7° 0	S 6
M 7	3 5 10	14°48'06	25°49	16°50	6°51	17°55	13°17	27°44	13°14	3°42	10°35	8° 1	7° 7	3°52	6°57	M 7
T 8	3 9 7	15°48'32	7♋41	18°26	7°16	18°30	13°26	27°39	13°14	3°42	10°34	7°53	7° 4	3°58	6°54	T 8
W 9	3 13 4	16°48'59	19°30	20° 0	7°43	19° 5	13°35	27°34	13°13	3°42	10°33	7°46	7° 1	4° 5	6°51	W 9
T 10	3 17 0	17°49'28	1♌21	21°35	8°12	19°40	13°44	27°30	13°12	3°41	10°32	7°43	6°58	4°12	6°48	T 10
F 11	3 20 57	18°49'59	13°19	23° 9	8°42	20°15	13°52	27°25	13°12	3°41	10°31	7°41	6°54	4°18	6°45	F 11
S 12	3 24 53	19°50'32	25°27	24°43	9°14	20°50	14° 1	27°20	13°11	3°41	10°30	7°D41	6°51	4°25	6°42	S 12
S 13	3 28 50	20°51'06	7♍53	26°17	9°48	21°25	14° 9	27°15	13°11	3°41	10°29	7°R41	6°48	4°32	6°39	S 13
M14	3 32 46	21°51'43	20°41	27°51	10°23	21°59	14°18	27°10	13°10	3°41	10°28	7°41	6°45	4°39	6°36	M14
T 15	3 36 43	22°52'21	3♎55	29°24	10°59	22°34	14°26	27° 5	13°10	3°40	10°28	7°38	6°42	4°45	6°33	T 15
W16	3 40 39	23°53'00	17°37	0♐57	11°37	23° 9	14°34	27° 0	13° 9	3°40	10°27	7°33	6°38	4°52	6°30	W16
T 17	3 44 36	24°53'42	1♏48	2°30	12°16	23°43	14°41	26°55	13° 9	3°40	10°26	7°25	6°35	4°59	6°27	T 17
F 18	3 48 33	25°54'25	16°24	4° 3	12°56	24°17	14°49	26°51	13° 9	3°39	10°25	7°15	6°32	5° 5	6°24	F 18
S 19	3 52 29	26°55'09	1♐19	5°36	13°37	24°52	14°57	26°46	13° 9	3°39	10°25	7° 3	6°29	5°12	6°21	S 19
S 20	3 56 26	27°55'55	16°24	7° 9	14°19	25°26	15° 4	26°41	13° 8	3°38	10°24	6°52	6°26	5°19	6°18	S 20
M21	4 0 22	28°56'42	1♑27	8°41	15° 3	26° 0	15°12	26°36	13° 8	3°38	10°23	6°41	6°23	5°25	6°16	M21
T 22	4 4 19	29°57'30	16°20	10°13	15°48	26°34	15°19	26°31	13°D 8	3°37	10°22	6°33	6°19	5°32	6°13	T 22
W23	4 8 15	0♐58'19	0♒56	11°46	16°33	27° 9	15°26	26°26	13° 8	3°37	10°22	6°28	6°16	5°39	6°10	W23
T 24	4 12 12	1°59'09	15°10	13°18	17°20	27°42	15°33	26°21	13° 8	3°36	10°21	6°26	6°13	5°46	6° 7	T 24
F 25	4 16 8	3° 0'00	29° 2	14°49	18° 7	28°16	15°39	26°16	13° 9	3°35	10°20	6°25	6°10	5°52	6° 5	F 25
S 26	4 20 5	4° 0'52	12♓32	16°21	18°56	28°50	15°46	26°11	13° 9	3°35	10°20	6°25	6° 7	5°59	6° 2	S 26
S 27	4 24 2	5° 1'44	25°43	17°53	19°45	29°24	15°53	26° 6	13° 9	3°34	10°19	6°24	6° 4	6° 6	5°59	S 27
M28	4 27 58	6° 2'38	8♈37	19°24	20°35	29°58	15°59	26° 2	13° 9	3°33	10°19	6°21	6° 0	6°12	5°57	M28
T 29	4 31 55	7° 3'32	21°18	20°55	21°26	0♎31	16° 5	25°57	13°10	3°33	10°18	6°16	5°57	6°19	5°54	T 29
W30	4 35 51	8♐ 4'27	3♉48	22♐26	22♎18	1♎ 5	16♍11	25♉52	13♓10	3♌32	10♈17	6♍ 7	5♍54	6♋26	5♉52	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	14s27	2n 6	2s44	13s36	0n22	3s57	2s 8	7n33	1n31	7n53	1n 1	17n36	2s16	7s18	0s48	19n12	0s10	11s48	17s27	8n11	8n48	18n49	12n35	1s28
W 2	14 46	6 8	3 37	14 14	0 15	3 50	1 56	7 20	1 31	7 50	1 2	17 35	2 16	7 18	0 47	19 12	0 10	11 49	17 27	8 13	8 49	18 49	12 34	1 28
T 3	15 5	9 50	4 18	14 51	0 9	3 45	1 43	7 6	1 32	7 46	1 2	17 34	2 16	7 19	0 47	19 12	0 10	11 49	17 27	8 17	8 50	18 49	12 33	1 28
F 4	15 24	13 3	4 46	15 27	0 2	3 41	1 31	6 53	1 32	7 43	1 2	17 33	2 16	7 19	0 47	19 12	0 10	11 49	17 26	8 21	8 51	18 50	12 32	1 28
S 5	15 43	15 39	5 0	16 3	0s 5	3 38	1 19	6 40	1 32	7 39	1 2	17 32	2 16	7 19	0 47	19 12	0 10	11 49	17 26	8 26	8 53	18 50	12 31	1 28
S 6	16 1	17 32	5 1	16 38	0 12	3 36	1 7	6 26	1 33	7 36	1 2	17 31	2 16	7 19	0 47	19 12	0 10	11 49	17 26	8 31	8 54	18 50	12 30	1 28
M 7	16 19	18 37	4 48	17 12	0 18	3 34	0 56	6 13	1 33	7 33	1 3	17 30	2 16	7 20	0 47	19 12	0 10	11 50	17 26	8 35	8 55	18 50	12 29	1 28
T 8	16 36	18 53	4 23	17 45	0 25	3 34	0 44	5 59	1 34	7 29	1 3	17 28	2 16	7 20	0 47	19 12	0 10	11 50	17 26	8 38	8 56	18 50	12 27	1 28
W 9	16 54	18 20	3 47	18 17	0 31	3 35	0 34	5 46	1 34	7 26	1 3	17 27	2 16	7 20	0 47	19 12	0 10	11 50	17 25	8 40	8 57	18 51	12 26	1 28
T 10	17 11	16 58	3 0	18 48	0 38	3 37	0 23	5 33	1 34	7 23	1 3	17 26	2 16	7 20	0 47	19 12	0 10	11 50	17 25	8 42	8 59	18 51	12 25	1 28
F 11	17 28	14 51	2 6	19 19	0 44	3 39	0 13	5 19	1 35	7 20	1 3	17 25	2 16	7 21	0 47	19 12	0 10	11 50	17 25	8 42	9 0	18 51	12 24	1 28
S 12	17 44	12 3	1 5	19 48	0 50	3 43	0 3	5 6	1 35	7 17	1 4	17 24	2 16	7 21	0 47	19 12	0 10	11 50	17 25	8 42	9 1	18 51	12 23	1 28
S 13	18 0	8 39	0n 1	20 17	0 56	3 47	0n 7	4 52	1 35	7 14	1 4	17 23	2 16	7 21	0 47	19 12	0 10	11 50	17 24	8 42	9 2	18 51	12 22	1 29
M14	18 16	4 45	1 8	20 44	1 2	3 52	0 16	4 39	1 36	7 11	1 4	17 22	2 16	7 21	0 47	19 12	0 10	11 50	17 24	8 42	9 3	18 52	12 21	1 29
T 15	18 32	0 30	2 14	21 11	1 8	3 58	0 25	4 26	1 36	7 8	1 4	17 21	2 16	7 21	0 47	19 12	0 10	11 50	17 24	8 43	9 4	18 52	12 20	1 29
W16	18 47	3s56	3 15	21 36	1 14	4 5	0 34	4 12	1 37	7 5	1 5	17 20	2 15	7 21	0 47	19 13	0 10	11 51	17 24	8 45	9 6	18 52	12 19	1 29
T 17	19 2	8 17	4 5	22 0	1 20	4 13	0 42	3 59	1 37	7 2	1 5	17 19	2 15	7 21	0 47	19 13	0 10	11 51	17 23	8 48	9 7	18 52	12 18	1 29
F 18	19 16	12 17	4 41	22 24	1 25	4 21	0 50	3 46	1 37	6 59	1 5	17 18	2 15	7 21	0 47	19 13	0 10	11 51	17 23	8 52	9 8	18 52	12 17	1 29
S 19	19 31	15 35	4 59	22 46	1 30	4 30	0 58	3 32	1 38	6 57	1 5	17 17	2 15	7 21	0 47	19 13	0 10	11 51	17 23	8 56	9 9	18 53	12 16	1 29
S 20	19 44	17 53	4 56	23 7	1 35	4 39	1 6	3 19	1 38	6 54	1 5	17 16	2 15	7 22	0 47	19 13	0 10	11 51	17 23	9 1	9 10	18 53	12 15	1 29
M21	19 58	18 56	4 33	23 27	1 40	4 49	1 13	3 6	1 38	6 51	1 6	17 15	2 15	7 21	0 47	19 13	0 10	11 51	17 22	9 5	9 11	18 53	12 14	1 29
T 22	20 11	18 39	3 52	23 46	1 45	5 0	1 20	2 53	1 39	6 49	1 6	17 14	2 15	7 21	0 47	19 13	0 10	11 51	17 22	9 7	9 13	18 53	12 13	1 29
W23	20 24	17 8	2 56	24 3	1 49	5 11	1 27	2 39	1 39	6 46	1 6	17 13	2 15	7 21	0 47	19 13	0 10	11 51	17 22	9 9	9 14	18 53	12 12	1 29
T 24	20 36	14 34	1 50	24 19	1 54	5 23	1 33	2 26	1 40	6 44	1 6	17 12	2 15	7 21	0 47	19 13	0 10	11 51	17 22	9 10	9 15	18 53	12 11	1 29
F 25	20 48	11 14	0 39	24 34	1 58	5 36	1 39	2 13	1 40	6 41	1 7	17 10	2 15	7 21	0 47	19 14	0 10	11 51	17 21	9 11	9 16	18 54	12 10	1 29
S 26	21 0	7 22	0s32	24 48	2 1	5 48	1 45	2 0	1 40	6 39	1 7	17 9	2 15	7 21	0 47	19 14	0 10	11 51	17 21	9 11	9 17	18 54	12 9	1 29
S 27	21 11	3 14	1 40	25 0	2 5	6 2	1 51	1 47	1 41	6 37	1 7	17 8	2 15	7 21	0 47	19 14	0 10	11 51	17 21	9 11	9 19	18 54	12 8	1 29
M28	21 22	0n57	2 41	25 11	2 8	6 16	1 56	1 34	1 41	6 35	1 7	17 7	2 14	7 21	0 46	19 14	0 10	11 51	17 20	9 12	9 20	18 54	12 8	1 29
T 29	21 32	5 2	3 33	25 21	2 10	6 30	2 2	1 21	1 41	6 32	1 8	17 6	2 14	7 21	0 46	19 14	0 10	11 50	17 20	9 14	9 21	18 54	12 7	1 29
W30	21s42	8n50	4s14	25s29	2s13	6s44	2n 7	1n 7	1n42	6n30	1n 8	17n 5	2s14	7s21	0s46	19n14	0s10	11s50	17s20	9n17	9n22	18n54	12n 6	1s30

Julian Day Number = 2301369.5, Delta T = 105.17 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°00'07, Lahiri = 18°07'08Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1588
geocentric

DECEMBER 1588 GC

00:00 UT

Day	Sid.t	☉	☽	☿	♀	♂	♃	♄	♅	♆	♇	☊	☊	⚸	⚷	Day
T 1	4 39 48	9♐ 5'23	16♉ 8	23♐56	23♎10	1♎38	16♍17	25°R47	13♓10	3°R31	10°R17	5°R56	5♍51	6♋33	5°R49	T 1
F 2	4 43 44	10° 6'20	28°21	25°26	24° 3	2°11	16°23	25♉43	13°11	3♌30	10♈16	5♍42	5°48	6°39	5♉47	F 2
S 3	4 47 41	11° 7'17	10♊26	26°56	24°57	2°45	16°28	25°38	13°11	3°29	10°16	5°27	5°44	6°46	5°44	S 3
S 4	4 51 37	12° 8'16	22°25	28°24	25°52	3°18	16°33	25°33	13°12	3°28	10°15	5°12	5°41	6°53	5°42	S 4
M 5	4 55 34	13° 9'16	4♋19	29°53	26°47	3°51	16°39	25°29	13°13	3°28	10°15	4°59	5°38	6°59	5°40	M 5
T 6	4 59 31	14°10'16	16° 9	1♉20	27°43	4°24	16°44	25°24	13°13	3°27	10°15	4°48	5°35	7° 6	5°37	T 6
W 7	5 3 27	15°11'18	27°58	2°47	28°39	4°57	16°49	25°20	13°14	3°26	10°14	4°40	5°32	7°13	5°35	W 7
T 8	5 7 24	16°12'20	9♌49	4°12	29°36	5°30	16°53	25°15	13°15	3°25	10°14	4°34	5°29	7°19	5°33	T 8
F 9	5 11 20	17°13'23	21°45	5°36	0♏34	6° 2	16°58	25°11	13°16	3°24	10°13	4°32	5°25	7°26	5°31	F 9
S 10	5 15 17	18°14'27	3♍52	6°58	1°32	6°35	17° 2	25° 7	13°16	3°22	10°13	4°D31	5°22	7°33	5°29	S 10
S 11	5 19 13	19°15'32	16°13	8°19	2°30	7° 8	17° 7	25° 2	13°17	3°21	10°13	4°R31	5°19	7°40	5°27	S 11
M12	5 23 10	20°16'38	28°55	9°37	3°29	7°40	17°11	24°58	13°18	3°20	10°13	4°31	5°16	7°46	5°25	M12
T 13	5 27 6	21°17'45	12♎ 2	10°53	4°29	8°12	17°15	24°54	13°19	3°19	10°12	4°29	5°13	7°53	5°23	T 13
W14	5 31 3	22°18'53	25°38	12° 6	5°29	8°44	17°18	24°50	13°20	3°18	10°12	4°25	5°10	8° 0	5°21	W14
T 15	5 35 0	23°20'01	9♏44	13°15	6°30	9°17	17°22	24°46	13°22	3°17	10°12	4°19	5° 6	8° 6	5°19	T 15
F 16	5 38 56	24°21'11	24°20	14°20	7°31	9°49	17°25	24°42	13°23	3°16	10°12	4°10	5° 3	8°13	5°17	F 16
S 17	5 42 53	25°22'21	9♐20	15°21	8°32	10°20	17°28	24°38	13°24	3°14	10°11	3°59	5° 0	8°20	5°16	S 17
S 18	5 46 49	26°23'31	24°35	16°16	9°34	10°52	17°31	24°34	13°25	3°13	10°11	3°48	4°57	8°26	5°14	S 18
M19	5 50 46	27°24'42	9♑54	17° 4	10°36	11°24	17°34	24°30	13°27	3°12	10°11	3°39	4°54	8°33	5°12	M19
T 20	5 54 42	28°25'53	25° 6	17°46	11°38	11°55	17°37	24°27	13°28	3°10	10°11	3°31	4°50	8°40	5°11	T 20
W21	5 58 39	29°27'04	10♒ 1	18°20	12°41	12°27	17°39	24°23	13°29	3° 9	10°11	3°26	4°47	8°47	5° 9	W21
T 22	6 2 36	0♑28'15	24°33	18°45	13°44	12°58	17°41	24°20	13°31	3° 8	10°11	3°24	4°44	8°53	5° 8	T 22
F 23	6 6 32	1°29'26	8♓37	19° 0	14°48	13°29	17°43	24°16	13°32	3° 6	10°11	3°D24	4°41	9° 0	5° 6	F 23
S 24	6 10 29	2°30'37	22°15	19°R 4	15°51	14° 0	17°45	24°13	13°34	3° 5	10°11	3°25	4°38	9° 7	5° 5	S 24
S 25	6 14 25	3°31'48	5♈27	18°57	16°56	14°31	17°47	24°10	13°36	3° 4	10°D11	3°R25	4°35	9°13	5° 4	S 25
M26	6 18 22	4°32'58	18°19	18°39	18° 0	15° 2	17°48	24° 7	13°37	3° 2	10°11	3°24	4°31	9°20	5° 3	M26
T 27	6 22 18	5°34'08	0♉53	18° 8	19° 5	15°32	17°50	24° 3	13°39	3° 1	10°11	3°21	4°28	9°27	5° 2	T 27
W28	6 26 15	6°35'18	13°13	17°26	20°10	16° 3	17°51	24° 1	13°41	2°59	10°11	3°15	4°25	9°33	5° 0	W28
T 29	6 30 11	7°36'28	25°22	16°33	21°15	16°33	17°52	23°58	13°43	2°58	10°11	3° 7	4°22	9°40	4°59	T 29
F 30	6 34 8	8°37'38	7♊24	15°31	22°20	17° 3	17°52	23°55	13°44	2°56	10°11	2°57	4°19	9°47	4°58	F 30
S 31	6 38 5	9♑38'47	19♊21	14♑20	23♏26	17♎33	17♍53	23♉52	13♓46	2♌55	10♈11	2♍46	4♍16	9♋54	4♉58	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	21s52	12n12	4s42	25s36	2s15	6s59	2n11	0n55	1n42	6n28	1n 8	17n 4	2s14	7s20	0s46	19n15	0s10	11s50	17s19	9n21	9n23	18n54	12n 5	1s30
F 2	22 1	15 0	4 57	25 41	2 17	7 15	2 16	0 42	1 42	6 26	1 8	17 3	2 14	7 20	0 46	19 15	0 10	11 50	17 19	9 27	9 24	18 54	12 4	1 30
S 3	22 9	17 8	4 58	25 45	2 18	7 30	2 20	0 29	1 43	6 24	1 9	17 2	2 14	7 20	0 46	19 15	0 10	11 50	17 19	9 32	9 26	18 55	12 3	1 30
S 4	22 18	18 30	4 46	25 47	2 18	7 46	2 24	0 16	1 43	6 22	1 9	17 2	2 14	7 20	0 46	19 15	0 10	11 50	17 18	9 37	9 27	18 55	12 2	1 30
M 5	22 26	19 3	4 22	25 48	2 19	8 3	2 28	0 3	1 44	6 21	1 9	17 1	2 14	7 19	0 46	19 16	0 10	11 50	17 18	9 42	9 28	18 55	12 2	1 30
T 6	22 33	18 46	3 46	25 47	2 18	8 19	2 32	0s10	1 44	6 19	1 9	17 0	2 13	7 19	0 46	19 16	0 10	11 50	17 18	9 46	9 29	18 55	12 1	1 30
W 7	22 40	17 40	3 1	25 45	2 18	8 36	2 35	0 23	1 44	6 17	1 10	16 59	2 13	7 19	0 46	19 16	0 10	11 50	17 17	9 49	9 30	18 55	12 0	1 30
T 8	22 46	15 47	2 7	25 42	2 16	8 53	2 38	0 35	1 45	6 16	1 10	16 58	2 13	7 18	0 46	19 16	0 10	11 49	17 17	9 51	9 31	18 55	11 59	1 30
F 9	22 53	13 13	1 7	25 36	2 14	9 11	2 41	0 48	1 45	6 14	1 10	16 57	2 13	7 18	0 46	19 16	0 10	11 49	17 17	9 52	9 33	18 55	11 59	1 30
S 10	22 58	10 4	0 4	25 30	2 12	9 28	2 44	1 0	1 45	6 13	1 11	16 56	2 13	7 18	0 46	19 17	0 10	11 49	17 16	9 52	9 34	18 55	11 58	1 30
S 11	23 3	6 24	1n 2	25 22	2 8	9 46	2 47	1 13	1 46	6 11	1 11	16 55	2 13	7 17	0 46	19 17	0 10	11 49	17 16	9 52	9 35	18 55	11 57	1 30
M12	23 8	2 21	2 6	25 12	2 4	10 3	2 49	1 25	1 46	6 10	1 11	16 54	2 12	7 17	0 46	19 17	0 10	11 49	17 16	9 52	9 36	18 56	11 56	1 30
T 13	23 12	1s55	3 5	25 1	1 59	10 21	2 51	1 38	1 46	6 9	1 11	16 54	2 12	7 16	0 46	19 18	0 10	11 48	17 15	9 53	9 37	18 56	11 56	1 30
W14	23 16	6 15	3 56	24 49	1 53	10 39	2 53	1 50	1 47	6 7	1 12	16 53	2 12	7 16	0 46	19 18	0 10	11 48	17 15	9 55	9 38	18 56	11 55	1 30
T 15	23 19	10 24	4 35	24 35	1 46	10 57	2 55	2 3	1 47	6 6	1 12	16 52	2 12	7 16	0 46	19 18	0 10	11 48	17 15	9 57	9 40	18 56	11 55	1 30
F 16	23 22	14 5	4 58	24 21	1 38	11 16	2 57	2 15	1 48	6 5	1 12	16 51	2 12	7 15	0 46	19 18	0 10	11 48	17 14	10 0	9 41	18 56	11 54	1 30
S 17	23 25	16 56	5 1	24 5	1 29	11 34	2 58	2 27	1 48	6 4	1 12	16 51	2 11	7 15	0 46	19 19	0 10	11 47	17 14	10 4	9 42	18 56	11 53	1 30
S 18	23 26	18 40	4 43	23 49	1 19	11 52	3 0	2 39	1 48	6 3	1 13	16 50	2 11	7 14	0 46	19 19	0 10	11 47	17 13	10 8	9 43	18 56	11 53	1 30
M19	23 28	19 3	4 5	23 31	1 8	12 10	3 1	2 51	1 49	6 3	1 13	16 49	2 11	7 13	0 46	19 19	0 10	11 47	17 13	10 12	9 44	18 56	11 52	1 30
T 20	23 29	18 4	3 9	23 14	0 56	12 29	3 2	3 3	1 49	6 2	1 13	16 48	2 11	7 13	0 46	19 20	0 10	11 47	17 13	10 14	9 45	18 56	11 52	1 30
W21	23 29	15 50	2 1	22 56	0 42	12 47	3 2	3 15	1 49	6 1	1 14	16 48	2 11	7 12	0 46	19 20	0 10	11 46	17 12	10 16	9 47	18 56	11 51	1 30
T 22	23 29	12 38	0 47	22 38	0 27	13 5	3 3	3 27	1 50	6 0	1 14	16 47	2 10	7 12	0 46	19 20	0 10	11 46	17 12	10 17	9 48	18 56	11 51	1 30
F 23	23 29	8 47	0s28	22 20	0 11	13 23	3 4	3 39	1 50	6 0	1 14	16 47	2 10	7 11	0 45	19 21	0 10	11 46	17 12	10 17	9 49	18 56	11 50	1 30
S 24	23 28	4 36	1 39	22 2	0n 6	13 41	3 4	3 50	1 50	5 59	1 14	16 46	2 10	7 10	0 45	19 21	0 10	11 45	17 11	10 17	9 50	18 56	11 50	1 30
S 25	23 27	0 19	2 43	21 45	0 24	13 59	3 4	4 2	1 51	5 59	1 15	16 45	2 10	7 10	0 45	19 21	0 10	11 45	17 11	10 16	9 51	18 57	11 49	1 30
M26	23 25	3n52	3 36	21 29	0 43	14 17	3 4	4 14	1 51	5 59	1 15	16 45	2 9	7 9	0 45	19 22	0 10	11 45	17 11	10 17	9 52	18 57	11 49	1 30
T 27	23 22	7 46	4 18	21 14	1 2	14 35	3 4	4 25	1 51	5 58	1 15	16 44	2 9	7 8	0 45	19 22	0 10	11 44	17 10	10 18	9 53	18 57	11 49	1 30
W28	23 20	11 16	4 47	21 0	1 21	14 52	3 4	4 36	1 52	5 58	1 16	16 44	2 9	7 8	0 45	19 22	0 10	11 44	17 10	10 20	9 55	18 57	11 48	1 30
T 29	23 16	14 15	5 2	20 48	1 41	15 10	3 3	4 48	1 52	5 58	1 16	16 43	2 9	7 7	0 45	19 23	0 10	11 44	17 9	10 23	9 56	18 57	11 48	1 30
F 30	23 13	16 35	5 4	20 36	1 59	15 27	3 3	4 59	1 52	5 58	1 16	16 43	2 8	7 6	0 45	19 23	0 10	11 43	17 9	10 27	9 57	18 57	11 47	1 30
S 31	23s 8	18n12	4s53	20s27	2n17	15s44	3n 2	5s10	1n53	5n58	1n16	16n43	2s 8	7s 5	0s45	19n23	0s10	11s43	17s 9	10n31	9n58	18n57	11n47	1s30

Julian Day Number = 2301399.5, Delta T = 105.04 sec
Ecliptic obliquity = 23°29'25, Nutation = - 0°00'08, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 19°00'12, Lahiri = 18°07'12Greg. Calendar