

Astrodienst Ephemeris Tables for the year 1643

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

JANUARY 1643 GC 00:00 UT

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T 1	6 41 43	10 ට 33'06	24 8 5	17 ∡ 735	24≈59	6 8 35	13) (36	19)(41	15 M 32	0 ₹ 52	2°R38	10°R 1	9 ≏ 48	17 Ω 16	8°R37	T 1
F 2	6 45 39	11°34'15	6 Ⅱ 45	18°37	25°44	6°53	13°46	19°45	15°35	0°54	2Ⅲ38	9 ₽ 52	9°44	17°22	8耳34	F 2
S 3	6 49 36	12°35'24	19°15	19°43	26°27	7°11	13°57	19°49	15°37	0°56	2°37	9°41	9°41	17°29	8°31	S 3
S 4	6 53 32	13°36'32	19936	20°51	27° 9	7°30	14° 7	19°53	15°40	0°58	2°36	9°27	9°38	17°36	8°28	S 4
M 5	6 57 29	14°37'41	13°49	22° 2	27°50	7°49	14°18	19°58	15°42	1° 0	2°35	9°13	9°35	17°43	8°26	M 5
T 6	7 1 26	15°38'49	25°53	23°14	28°30	8° 9	14°28	20° 2	15°44	1° 1	2°34	8°58	9°32	17°49	8°23	T 6
W 7	7 5 22	16°39'56	7 Ω 51	24°29	29° 8	8°29	14°39	20° 7	15°47	1° 3	2°33	8°45	9°29	17°56	8°20	W 7
T 8	7 9 19	17°41'03	19°43	25°45	29°46	8°49	14°50	20°11	15°49	1° 5	2°33	8°33	9°25	18° 3	8°18	T 8
F 9	7 13 15	18°42'10	1 m/32	27° 2	0 ∺ 21	9°10	15° 1	20°16	15°51	1° 6	2°32	8°25	9°22	18° 9	8°15	F 9
S 10	7 17 12	19°43'17	13°21	28°21	0°56	9°31	15°12	20°21	15°53	1°8	2°31	8°20	9°19	18°16	8°13	S 10
S 11	7 21 8	20°44'24	25°13	29°41	1°29	9°53	15°23	20°26	15°55	1°10	2°31	8°17	9°16	18°23	8°10	S 11
M12	7 25 5	21°45'30	7 Ω 13	1る 2	2° 0	10°15	15°34	20°31	15°57	1°11	2°30	8°D17	9°13	18°29	8° 8	M12
T 13	7 29 1	22°46'36	19°27	2°24	2°30	10°37	15°46	20°36	15°59	1°13	2°29	8°R17	9° 9	18°36	8° 5	T 13
W14	7 32 58	23°47'41	1 M .59	3°48	2°58	11° 0	15°57	20°41	16° 1	1°14	2°28	8°17	9° 6	18°43	8° 3	W14
T 15	7 36 55	24°48'46	14°55	5°12	3°25	11°23	16° 9	20°46	16° 3	1°16	2°28	8°15	9° 3	18°49	8° 1	T 15
F 16	7 40 51	25°49'51	28°19	6°37	3°50	11°46	16°21	20°51	16° 5	1°17	2°27	8°11	9° 0	18°56	7°59	F 16
S 17	7 44 48	26°50'56	12 × 13	8° 3	4°13	12°10	16°32	20°56	16° 7	1°19	2°27	8° 4	8°57	19° 3	7°57	S 17
S 18	7 48 44	27°52'00	26°37	9°30	4°34	12°34	16°44	21° 2	16° 9	1°20	2°26	7°55	8°54	19°10	7°55	S 18
M19	7 52 41	28°53'03	11 궁 27	10°57	4°53	12°58	16°56	21° 7	16°11	1°22	2°25	7°45	8°50	19°16	7°53	M19
T 20	7 56 37	29°54'06	26°35	12°25	5°10	13°23	17° 8	21°13	16°12	1°23	2°25	7°34	8°47	19°23	7°51	T 20
W21	8 0 34	0≈55'08	11≈50	13°54	5°25	13°47	17°20	21°18	16°14	1°25	2°24	7°24	8°44	19°30	7°49	W21
T 22	8 4 30	1°56'09	27° 3	15°24	5°38	14°13	17°33	21°24	16°15	1°26	2°24	7°16	8°41	19°36	7°48	T 22
F 23	8 8 27	2°57'09	12) 2	16°55	5°48	14°38	17°45	21°30	16°17	1°27	2°23	7°11	8°38	19°43	7°46	F 23
S 24	8 12 24	3°58'07	26°40	18°26	5°57	15° 4	17°57	21°35	16°18	1°29	2°23	7° 9	8°35	19°50	7°45	S 24
S 25	8 16 20	4°59'04	10 Y 53	19°58	6° 3	15°30	18°10	21°41	16°20	1°30	2°22	7°D 9	8°31	19°56	7°43	S 25
M26	8 20 17	6° 0'00	24°41	21°30	6° 6	15°56	18°22	21°47	16°21	1°31	2°22	7° 9	8°28	20° 3	7°42	M26
T 27	8 24 13	7° 0'55	8 8 5	23° 3	6°R 8	16°22	18°35	21°53	16°22	1°32	2°21	7°R10	8°25	20°10	7°40	T 27
W28	8 28 10	8° 1'49	21° 6	24°37	6° 6	16°49	18°48	21°59	16°24	1°33	2°21	7° 9	8°22	20°16	7°39	W28
T 29	8 32 6	9° 2'41	3 II 50	26°12	6° 3	17°16	19° 0	22° 5	16°25	1°35	2°21	7° 6	8°19	20°23	7°38	T 29
F 30	8 36 3	10° 3'31	16°19	27°47	5°56	17°43	19°13	22°11	16°26	1°36	2°20	7° 0	8°15	20°30	7°37	F 30
S 31	8 39 59	11≈ 4'20	28耳36	29 궁 23	5) (47	18810	19 米 26	22) 18	16ML27	1 ∡ 137	2Ⅲ20	6 ₽ 52	8 ₾ 12	20€37	7 Ⅱ 36	S 31

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T 1 F 2 S 3	23 s 4 22 59 22 53	17 20 4	30 21 s 8 12 21 23 11 21 37	1 37	13 s19 12 57 12 34	0s 7 1 0n 2 1 0 10 1		1n26 1 27 1 28	7 s34 7 30 7 26	1 s12 1 12 1 12	6s 7 6 5 6 3	2 11	16 s11 16 11 16 12	0 22	18 47	1n38 1 38 1 38	9n 3 11 s54 9 3 11 53 9 3 11 53	3 55	3 52	11n47 11 46 11 45	16 38	5 s12 5 12 5 12
S 4 M 5 T 6 W 7 T 8	22 34 22 27 22 19	17 49 4 5 16 18 4 4 14 6 4 2 11 20 3 4	22 22 29 17 22 41	1 11 1 2 0 53 0 44	11 48 11 26 11 3 10 41	0 48 1 0 58 1	15 33 15 40 15 47 15 54	1 29 1 29 1 30 1 31 1 31	7 22 7 17 7 13 7 9 7 4	1 12 1 11 1 11 1 11 1 11	6 1 5 59 5 57 5 55 5 53	2 11 2 11 2 10 2 10	16 14 16 15 16 15	0 22 0 22 0 22 0 22	18 48 18 48 18 48 18 49	1 38 1 38 1 38 1 38 1 38	9 3 11 53 9 3 11 53 9 3 11 53 9 3 11 52 9 3 11 52	3 39 3 34 3 28 3 24	3 48 3 47 3 46 3 44	11 43 11 42 11 40 11 39 11 37	16 37 16 37 16 36 16 36	5 12 5 12 5 12 5 12 5 12 5 11
F 9 S 10 S 11	22 11 22 2 21 53	4 35 2	1 22 51 8 23 1 9 23 10	0 27	9 57	1 8 1 1 18 1 1 29 1		1 32 1 33 1 33	7 0 6 56 6 51	1 11 1 11 1 10	5 51 5 49 5 47	2 10	16 16 16 17 16 17	0 22		1 38 1 38 1 38	9 4 11 52 9 4 11 52 9 4 11 51		3 42	11 36 11 34 11 33	16 36	5 11 5 11 5 11
M12 T 13 W14 T 15 F 16 S 17	21 1	2 s 5 7 0 0 10 16 2 13 27 3 16 2 3 5	6 23 18 59 23 25 2 23 31 2 23 36 53 23 40 33 23 42	0 2 0s 5 0 13 0 21	8 31 8 11 7 51	1 51 1	16 55	1 34 1 34 1 35 1 35 1 36 1 36	6 47 6 42 6 37 6 33 6 28 6 23	1 10 1 10 1 10 1 10 1 10 1 10	5 45 5 43 5 41 5 39 5 37 5 34	2 10 2 9 2 9 2 9	16 19 16 19	0 22 0 22 0 22 0 22	18 50 18 50 18 51	1 38 1 38 1 38 1 38 1 39 1 39	9 4 11 51 9 4 11 51 9 4 11 50 9 4 11 50 9 4 11 50 9 4 11 50	3 15	3 38 3 37 3 36 3 34	11 31 11 30 11 28 11 27 11 25 11 24	16 35 16 35 16 35 16 35	5 11 5 10 5 10 5 10 5 10 5 10
S 18 M19 T 20 W21 T 22 F 23 S 24	20 25	17 59 5 16 12 4 4 13 16 4 1 9 26 3 1 5 4 2 1	57 23 44 2 23 44 16 23 43 10 23 40 16 23 37 10 23 32 56 23 25	0 42 0 49 0 55 1 2 1 8	6 53 6 35 6 17 6 0 5 44	3 4 1 3 17 1 3 30 1 3 43 1	17 49	1 37 1 37 1 37 1 38 1 38 1 38 1 39	6 19 6 14 6 9 6 4 5 59 5 54 5 49	1 9 1 9 1 9 1 9 1 9 1 9	5 32 5 30 5 28 5 25 5 23 5 20 5 18	2 8 2 8	16 21 16 22	0 22 0 22 0 22	18 52 18 52 18 52 18 52 18 53	1 39 1 39 1 39 1 39 1 39 1 39 1 39	9 4 11 50 9 5 11 49 9 5 11 49 9 5 11 49 9 5 11 48 9 5 11 48	3 5 3 0 2 57 2 54 2 52	3 31 3 29 3 28 3 27 3 26	11 22 11 21 11 19 11 18 11 16 11 14 11 13	16 35 16 34 16 34 16 34 16 34	5 9 5 9 5 9 5 9 5 9 5 8 5 8
S 25 M26 T 27 W28 T 29 F 30 S 31	18 18	8 9 1 3 11 44 2 3 14 39 3 3 16 46 4 1 18 2 4 4	20 23 18 32 23 9 37 22 58 33 22 47 46 22 33 46 22 19 2 22s 3	1 24 1 29 1 34 1 38 1 42	4 59 4 46 4 33 4 21 4 11	5 6 1 5 19 1	18 13 18 21 18 29 18 37 18 45	1 39 1 39 1 40 1 40 1 40 1 40 1 n40	5 44 5 39 5 34 5 29 5 24 5 19 5 s14	1 9 1 9 1 8 1 8 1 8 1 8	5 16 5 13 5 11 5 8 5 6 5 3 5s 1	2 8 2 8 2 8 2 7 2 7	16 24 16 25 16 25 16 25 16 26 16 26	0 22 0 22 0 22 0 22 0 22	18 53 18 53 18 54 18 54	1 39	9 6 11 48 9 6 11 47 9 6 11 47 9 6 11 47 9 7 11 47 9n 7 11 s46	2 51 2 51 2 50 2 49 2 47	3 22 3 21 3 19 3 18 3 17	11 7 11 5 11 4		5 8 5 8 5 7 5 7 5 7 5 8 6

 $\label{eq:Julian Day Number = 2321153.5, Delta T = 48.23 sec} \\ Ecliptic obliquity = 23°28'59, Nutation = 0°00'03, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°45'27, Lahiri = 18°52'27Greg. Calendar$

FEBRUARY 1643 GC 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(Ť	Р	u	ນ	Ç	ķ	Day
S 1	8 43 56	12≈ 5'08	109545	1≈ 0	5°R36	18 8 38	19) 39	22) (24	16 M 28	1 ₹ 38	2°R20	6°R42	8 亞 9	20 Ω 43	7°R35	S 1
M 2	8 47 53	13° 5'55	22°46	2°38	5 ₩ 22	19° 6	19°52	22°30	16°29	1°39	2 Ⅱ 19	6 ₽ 31	8° 6	20°50	7 Ⅱ 34	M 2
T 3	8 51 49	14° 6'40	4 Ω 43	4°16	5° 5	19°34	20° 5	22°37	16°30	1°40	2°19	6°21	8° 3	20°57	7°33	T 3
W 4	8 55 46	15° 7'23	16°35	5°55	4°47	20° 2	20°19	22°43	16°31	1°41	2°19	6°11	8° 0	21° 3	7°32	W 4
T 5	8 59 42	16° 8'06	28°25	7°35	4°25	20°30	20°32	22°49	16°32	1°42	2°19	6° 3	7°56	21°10	7°32	T 5
F 6	9 3 39	17° 8'47	10 M 15	9°16	4° 2	20°59	20°45	22°56	16°33	1°42	2°18	5°57	7°53	21°17	7°31	F 6
S 7	9 7 35	18° 9'27	22° 6	10°58	3°36	21°28	20°58	23° 2	16°33	1°43	2°18	5°54	7°50	21°23	7°31	S 7
S 8	9 11 32	19°10'05	4 ♀ 2	12°40	3° 8	21°57	21°12	23° 9	16°34	1°44	2°18	5°D52	7°47	21°30	7°30	S 8
M 9	9 15 28	20°10'42	16° 5	14°24	2°39	22°26	21°25	23°16	16°35	1°45	2°18	5°53	7°44	21°37	7°30	M 9
T 10	9 19 25	21°11'18	28°20	16° 8	2° 7	22°55	21°39	23°22	16°35	1°46	2°18	5°54	7°40	21°43	7°30	T 10
W11	9 23 22	22°11'53	10 M 51	17°53	1°34	23°24	21°52	23°29	16°36	1°46	2°18	5°56	7°37	21°50	7°29	W11
T 12	9 27 18	23°12'27	23°43	19°39	1° 0	23°54	22° 6	23°36	16°36	1°47	2°18	5°R56	7°34	21°57	7°29	T 12
F 13	9 31 15	24°12'59	6 ₹ 59	21°26	0°25	24°24	22°20	23°43	16°37	1°48	2°18	5°55	7°31	22° 3	7°D29	F 13
S 14	9 35 11	25°13'30	20°43	23°13	29≈48	24°54	22°33	23°49	16°37	1°48	2°18	5°53	7°28	22°10	7°29	S 14
S 15	9 39 8	26°14'00	4 ⋜ 56	25° 2	29°11	25°24	22°47	23°56	16°37	1°49	2°D18	5°49	7°25	22°17	7°30	S 15
M16	9 43 4	27°14'29	19°35	26°52	28°34	25°54	23° 1	24° 3	16°37	1°50	2°18	5°43	7°21	22°23	7°30	M16
T 17	9 47 1	28°14'56	4≈36	28°42	27°57	26°24	23°15	24°10	16°38	1°50	2°18	5°37	7°18	22°30	7°30	T 17
W18	9 50 57	29°15'21	19°50	0) €33	27°19	26°55	23°29	24°17	16°38	1°51	2°18	5°32	7°15	22°37	7°30	W18
T 19	9 54 54	0) 15′45	5 米 6	2°25	26°42	27°26	23°43	24°24	16°38	1°51	2°18	5°27	7°12	22°44	7°31	T 19
F 20	9 58 51	1°16'07	20°15	4°18	26° 6	27°56	23°57	24°31	16°R38	1°51	2°18	5°25	7° 9	22°50	7°31	F 20
S 21	10 2 47	2°16'27	5 ℃ 7	6°11	25°30	28°27	24°11	24°38	16°38	1°52	2°18	5°D24	7° 6	22°57	7°32	S 21
S 22	10 6 44	3°16'45	19°35	8° 5	24°56	28°58	24°25	24°45	16°38	1°52	2°18	5°25	7° 2	23° 4	7°33	S 22
M23	10 10 40	4°17'02	3 8 36	10° 0	24°23	29°30	24°39	24°53	16°37	1°53	2°18	5°26	6°59	23°10	7°34	M23
T 24	10 14 37	5°17'16	17°10	11°55	23°51	0 I 1	24°53	25° 0	16°37	1°53	2°18	5°28	6°56	23°17	7°34	T 24
W25	10 18 33	6°17'28	0 Ⅱ 19	13°50	23°21	0°32	25° 7	25° 7	16°37	1°53	2°19	5°R29	6°53	23°24	7°35	W25
T 26	10 22 30	7°17'38	13° 5	15°45	22°53	1° 4	25°21	25°14	16°37	1°53	2°19	5°29	6°50	23°30	7°36	T 26
F 27	10 26 26	8°17'47	25°32	17°39	22°26	1°36	25°36	25°21	16°36	1°53	2°19	5°27	6°46	23°37	7°37	F 27
S 28	10 30 23	9 光 17'52	7 95 45	19 米 34	22≈ 2	2 II 7	25 米 50	25 米 29	16 M .36	1 ∡ 754	2 Ⅱ 19	5 ≏ 25	6 ≏ 43	23 Ω 44	7 Ⅱ 39	S 28

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S 1	17 s12	17n59 5 s	s 4 21 s45	1 s50	3 s53	6n 1 19n	1n41	5s 9	1 s 8	4 s 5 8	2s 7	16 s26	0n22	18 s 5 4	1n39	9n 7 11s46	2 s40	3 s 1 4	11n 1	16n35	5 s 6
M 2	16 55	16 44 4	53 21 26	1 53	3 45	6 14 19	1 41	5 3	1 8	4 55	2 7	16 27	0 22	18 54	1 39	9 7 11 46	2 36	3 13	10 59	16 35	5 6
T 3	16 38	14 46 4	29 21 6	1 56	3 39	6 28 19 1	1 41	4 58	1 8	4 53	2 7	16 27	0 22	18 55	1 39	9 7 11 46	2 31	3 12	10 58	16 35	5 6
W 4	16 20	12 11 3	53 20 44	1 58	3 34	6 40 19 2	1 41	4 53	1 8	4 50	2 7	16 27	0 22	18 55	1 39	9 8 11 45	2 28	-	10 56	16 35	5 5
T 5	16 2	9 6 3	8 20 21	2 0	3 29	6 53 19 3	1 41	4 48	1 8	4 48	2 7	16 27	0 22	18 55	1 39	9 8 11 45	2 24	3 9	10 55	16 35	5 5
F 6	15 44	5 40 2	14 19 56	2 2	3 26	7 5 19 4	1 41	4 42	1 7	4 45	2 7	16 28	0 22	18 55	1 39	9 8 11 45	2 22	3 8	10 53	16 36	5 5
S 7	15 25	2 1 1	14 19 29	2 4	3 25	7 17 19 4	1 42	4 37	1 7	4 42	2 7	16 28	0 22	18 55	1 40	9 8 11 44	2 21	3 7	10 52	16 36	5 4
S 8	15 6	1 s45 0	10 19 2	2 5	3 24	7 28 19 5	1 42	4 32	1 7	4 40	2 6	16 28	0 22	18 55	1 40	9 9 11 44	2 20	3 6	10 50	16 36	5 4
M 9	14 47	5 29 On	n55 18 32	2 5	3 25	7 39 20	1 42	4 26	1 7	4 37	2 6	16 28	0 22	18 55	1 40	9 9 11 44	2 20	3 4	10 49	16 36	5 4
T 10	14 28	9 3 1	59 18 1	2 5	3 26	7 49 20 1	1 42	4 21	1 7	4 34	2 6	16 28	0 22	18 55	1 40	9 9 11 44	2 21	3 3	10 47	16 36	5 4
W11	14 8	12 17 2	58 17 29	2 5	3 29	7 58 20 1	1 42	4 15	1 7	4 31	2 6	16 28	0 22	18 56	1 40	9 9 11 43	2 22	3 2	10 45	16 37	5 3
T 12	13 48	15 1 3	50 16 55	2 4	3 33	8 6 20 20	1 42	4 10	1 7	4 29	2 6	16 28	0 22	18 56	1 40	9 10 11 43	2 22	3 1	10 44	16 37	5 3
F 13	13 28	17 3 4	32 16 20	2 3	3 38	8 14 20 3	1 42	4 4	1 7	4 26	2 6	16 29	0 22	18 56	1 40	9 10 11 43	2 21	2 59	10 42	16 37	5 3
S 14	13 8	18 10 5	0 15 43	2 2	3 44	8 21 20 4	1 42	3 59	1 7	4 23	2 6	16 29	0 22	18 56	1 40	9 10 11 42	2 20	2 58	10 41	16 38	5 2
S 15	12 48	18 13 5	11 15 5	1 59	3 52	8 26 20 4	1 42	3 53	1 7	4 20	2 6	16 29	0 22	18 56	1 40	9 10 11 42	2 19	2 57	10 39	16 38	5 2
M16	12 27	-	2 14 25	1 57	4 0	8 31 20 5		3 48	1 7	4 17	2 6	16 29	-		1 40	9 11 11 42	2 17		10 38		5 2
T 17	12 6	14 45 4	32 13 43		4 8	8 35 21		3 42	1 7	4 15	2 6	16 29	-		1 40	9 11 11 42	2 14	-	10 36		5 2
W18	11 45	11 22 3	43 13 1	1 50	4 18	8 38 21 1	1 42	3 37	1 7	4 12	2 6	16 29	0 22	18 56	1 40	9 11 11 41	2 12	2 53	10 35	16 39	5 1
	11 24	7 13 2	38 12 17	1 46	4 29	8 40 21 1		3 31	1 7	4 9	2 6	16 29			1 40	9 12 11 41	2 10	-	10 33		5 1
F 20	11 3	2 37 1	22 11 31	1 41	4 40	8 41 21 24		3 26	1 6	4 6	2 6	16 29	0 22	18 56	1 40	9 12 11 41	2 9	2 50	10 32	16 40	5 1
S 21	10 41	2n 4 0	2 10 44	1 36	4 51	8 41 21 3	1 43	3 20	1 6	4 3	2 6	16 29	0 22	18 56	1 40	9 12 11 40	2 9	2 49	10 30	16 40	5 0
S 22	10 19	6 29 1 s	s17 9 56	1 30	5 3	8 40 21 3	1 43	3 14	1 6	4 0	2 6	16 29	0 22	18 56	1 40	9 12 11 40	2 9	2 48	10 28	16 40	5 0
M23	9 57	10 25 2	28 9 7	1 23	5 16	8 38 21 4	1 43	3 9	1 6	3 58	2 6	16 29	0 22	18 56	1 40	9 13 11 40	2 10	2 47	10 27	16 41	5 0
T 24	9 35	13 39 3	29 8 17	1 16	5 28	8 36 21 5	1 43	3 3	1 6	3 55	2 5	16 29	0 22	18 56	1 40	9 13 11 40	2 10	2 45	10 25	16 41	5 0
W25	9 13	16 4 4	17 7 25	1 8	5 41	8 32 21 5		2 57	1 6	3 52	2 5	16 29	0 22	18 56	1 40	9 13 11 39	2 11	2 44	10 24	16 42	4 59
T 26	8 51	17 36 4	50 6 33	1 0	5 55	8 28 22	1 42	2 52	1 6	3 49	2 5	16 28	0 22	18 56	1 41	9 14 11 39	2 11	2 43	10 22	16 42	4 59
F 27	8 28	18 15 5	9 5 40	0 51	6 8	8 22 22 1	1 42	2 46	1 6	3 46	2 5	16 28	0 22	18 56	1 41	9 14 11 39	2 10	2 42	10 21	16 43	4 59
S 28	8s 6	18n 2 5s	s14 4s46	0 s41	6 s 2 1	8n17 22n1	1n42	2 s40	1 s 6	3 s43	2s 5	16 s28	0n22	18 s 5 6	1n41	9n14 11s38	2s 9	2 s40	10n19	16n43	4 s 5 8

Julian Day Number = 2321184.5, Delta T = 48.17 sec

Ecliptic obliquity = 23°28'59, Nutation = 0°00'04, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°45'31, Lahiri = 18°52'31Greg. Calendar

MARCH 1643 GC 00:00 UT

FIMIL)II TOT.	uc													00.0	0 0.
Day	Sid.t	0	D	ğ	Ş	♂	4	ħ)∤(卉	Р	u	v	Ç	ķ	Day
S 1	10 34 20	10) 17'56	199547	21) 27	21°R40	2П39	26) 4	25) 36	16°R35	1 ₹ 54	2П20	5°R21	6 <u>₽</u> 40	23\$\Omega50\$	7 Ⅱ 40	S 1
M 2	10 38 16	11°17'58	1 Ω 42	23°19	21≈21	3°11	26°18	25°43	16 M 35	1°54	2°20	5 ≙ 17	6°37	23°57	7°41	M 2
T 3	10 42 13	12°17'58	13°33	25°10	21° 4	3°43	26°33	25°51	16°34	1°54	2°20	5°13	6°34	24° 4	7°42	T 3
W 4	10 46 9	13°17'55	25°22	26°59	20°49	4°16	26°47	25°58	16°34	1°R54	2°21	5° 9	6°31	24°10	7°44	W 4
T 5	10 50 6	14°17'51	7 m 13	28°46	20°37	4°48	27° 1	26° 5	16°33	1°54	2°21	5° 6	6°27	24°17	7°45	T 5
F 6	10 54 2	15°17'44	19° 6	0 Υ 30	20°27	5°20	27°16	26°13	16°32	1°54	2°22	5° 5	6°24	24°24	7°47	F 6
S 7	10 57 59	16°17'36	1 º 4	2°10	20°19	5°53	27°30	26°20	16°31	1°54	2°22	5°D 4	6°21	24°30	7°49	S 7
S 8	11 1 55	17°17'26	13° 9	3°47	20°14	6°25	27°45	26°27	16°31	1°54	2°22	5° 4	6°18	24°37	7°51	S 8
M 9	11 5 52	18°17'14	25°23	5°19	20°D12	6°58	27°59	26°35	16°30	1°53	2°23	5° 5	6°15	24°44	7°52	M 9
T 10	11 9 48	19°17'00	7 M .48	6°47	20°12	7°31	28°14	26°42	16°29	1°53	2°23	5° 6	6°11	24°50	7°54	T 10
W11	11 13 45	20°16'44	20°27	8° 9	20°14	8° 4	28°28	26°50	16°28	1°53	2°24	5° 7	6° 8	24°57	7°56	W11
T 12	11 17 42	21°16'27	3 ₹ 23	9°26	20°19	8°36	28°43	26°57	16°27	1°53	2°24	5° 8	6° 5	25° 4	7°58	T 12
F 13	11 21 38	22°16'08	1 <u>6</u> °38	10°36	20°26	9° 9	28°57	27° 5	16°26	1°53	2°25	5°R 9	6° 2	25°11	8° 0	F 13
S 14	11 25 35	23°15'47	0 궁 15	11°39	20°36	9°42	29°12	27°12	16°24	1°52	2°26	5° 9	5°59	25°17	8° 3	S 14
S 15	11 29 31	24°15'24	14°15	12°36	20°47	10°16	29°26	27°19	16°23	1°52	2°26	5° 8	5°56	25°24	8° 5	S 15
M16	11 33 28	25°15'00	28°37	13°26	21° 1	10°49	29°41	27°27	16°22	1°52	2°27	5° 7	5°52	25°31	8° 7	M16
T 17	11 37 24	26°14'34	13≈18	14° 8	21°16	11°22	29°55	27°34	16°21	1°51	2°27	5° 6	5°49	25°37	8°10	T 17
W18	11 41 21	27°14'06	28°13	14°42	21°34	11°55	o Υ 10	27°42	16°19	1°51	2°28	5° 5	5°46	25°44	8°12	W18
T 19	11 45 17	28°13'37	13 米 15	15° 8	21°54	12°29	0°24	27°49	16°18	1°50	2°29	5° 5	5°43	25°51	8°15	T 19
F 20	11 49 14	29°13'05	28°14	15°27	22°15	13° 2	0°39	27°57	16°17	1°50	2°29	5°D 4	5°40	25°57	8°17	F 20
S 21	11 53 11	0 Υ 12'31	13 ° 4	15°38	22°38	13°36	0°53	28° 4	16°15	1°49	2°30	5° 4	5°37	26° 4	8°20	S 21
S 22	11 57 7	1°11'55	27°35	15°R41	23° 3	14°10	1° 8	28°12	16°14	1°49	2°31	5° 5	5°33	26°11	8°23	S 22
M23	12 1 4	2°11'17	11844	15°37	23°30	14°43	1°22	28°19	16°12	1°48	2°31	5° 5	5°30	26°17	8°25	M23
T 24	12 5 0	3°10'37	25°27	15°25	23°58	15°17	1°37	28°27	16°11	1°47	2°32	5° 5	5°27	26°24	8°28	T 24
W25	12 8 57	4° 9'54	8 Ⅱ 44	15° 7	24°28	15°51	1°51	28°34	16° 9	1°47	2°33	5° 5	5°24	26°31	8°31	W25
T 26	12 12 53	5° 9'09	21°36	14°42	24°59	16°25	2° 6	28°42	16° 7	1°46	2°34	5°R 5	5°21	26°37	8°34	T 26
F 27	12 16 50	6° 8'22	495 8	14°12	25°32	16°59	2°21	28°49	16° 6	1°45	2°35	5°D 5	5°17	26°44	8°37	F 27
S 28	12 20 46	7° 7'33	16°22	13°37	26° 6	17°33	2°35	28°56	16° 4	1°45	2°35	5° 5	5°14	26°51	8°40	S 28
S 29	12 24 43	8° 6'41	28°23	12°57	26°41	18° 7	2°50	29° 4	16° 2	1°44	2°36	5° 6	5°11	26°57	8°43	S 29
M30	12 28 40	9° 5'46	10 Ω 16	12°14	27°18	18°41	3° 4	29°11	16° 0	1°43	2°37	5° 6	5° 8	27° 4	8°47	M30
T 31	12 32 36	10 ℃ 4'50	22 N 6	11 Y 28	27≈55	19 Ⅱ 15	3 Υ 19	29 米 19	15 M .58	1 ∡ 742	2Ⅲ38	5 º 6	5 ₾ 5	27 Ω 11	8耳50	T 31

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	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 M 2 T 3 W 4 T 5 F 6 S 7	7 s43 7 20 6 58 6 35 6 11 5 48 5 25 5 2	17n 0 5s 4 15 15 4 41 12 51 4 7 9 55 3 22 6 35 2 28 2 59 1 27 0s46 0 22 4 31 0n45	3 s 5 2 0 s 3 1 2 5 8 0 2 0 2 3 0 9 1 9 0 n 3 0 1 6 0 1 5 0 n 3 7 0 2 8 1 2 9 0 4 1 2 2 0 0 5 4	7 24 7 38 22 48 7 35 7 29 22 54 7 47 7 20 23 0	1 42 1 42 1 42 1 42 1 42 1 42	2 s 3 5	3 37 2 5 3 34 2 5 3 31 2 5 3 28 2 5 3 25 2 5	16 28 0 22 16 28 0 22 16 27 0 23 16 27 0 23 16 27 0 23	18 56 1 41 18 56 1 41	9n15 11 s38 9 15 11 38 9 15 11 38 9 16 11 37 9 16 11 37 9 17 11 37 9 17 11 36	2 6 2 5 2 3 2 2 2 1 2 1	2 38 2 37 2 35 2 34 2 33 2 32	10 16 10 14 10 13 10 11 10 10 10 8	16n43 4s58 16 44 4 58 16 44 4 58 16 45 4 57 16 45 4 57 16 46 4 57 16 47 4 56
M 9 T 10 W11 T 12 F 13 S 14	4 38 4 15 3 51 3 28 3 4 2 41	8 7 1 50 11 26 2 52 14 16 3 46 16 27 4 30 17 49 5 1 18 13 5 16	3 9 1 7 3 55 1 20 4 40 1 33 5 22 1 46 6 1 1 59 6 38 2 11	8 8 7 0 23 11 8 17 6 50 23 1' 8 27 6 39 23 2' 8 35 6 29 23 2' 8 43 6 18 23 32 8 51 6 7 23 3'	1 42 1 42 1 42 1 42 1 42 1 41 1 41	1 49 1 6 1 43 1 6 1 37 1 6 1 31 1 6 1 25 1 6 1 20 1 6	3 17 2 5 3 14 2 5 3 11 2 5 3 8 2 5 3 5 2 5 3 2 2 5	16 26 0 23 16 26 0 23 16 26 0 23 16 25 0 23 16 25 0 23 16 25 0 23	18 56 1 41 18 56 1 41 18 55 1 41 18 55 1 41 18 55 1 41 18 55 1 41	9 17 11 36 9 17 11 36 9 18 11 36 9 18 11 35 9 19 11 35 9 19 11 35	2 1 2 2 2 2 2 3 2 3 2 3	2 29 2 28 2 27 2 25 2 24 2 23	10 5 10 3 10 2 10 0 9 59 9 57	16 48 4 56 16 48 4 56 16 49 4 55 16 49 4 55 16 50 4 55 16 51 4 54
S 15 M16 T 17 W18 T 19 F 20 S 21	2 17 1 53 1 30 1 6 0 42 0 19 0n 5	17 32 5 13 15 43 4 51 12 52 4 10 9 8 3 11 4 47 1 58 0 7 0 38 4n29 0s44	7 11 2 23 7 40 2 34 8 6 2 44 8 28 2 54 8 46 3 2 9 0 3 9 9 10 3 15	8 57 5 56 23 42 9 4 5 45 23 47 9 9 5 34 23 57 9 14 5 24 23 56 9 18 5 13 24 (9 22 5 2 24 4 9 24 4 51 24 8	1 41 1 41 1 41 1 41 1 41 1 41 1 40	1 14 1 6 1 8 1 6 1 2 1 6 0 56 1 6 0 51 1 6 0 45 1 6 0 39 1 6	2 59 2 5 2 56 2 5 2 53 2 5 2 50 2 5 2 47 2 5 2 44 2 5 2 41 2 5	16 24 0 23 16 24 0 23 16 23 0 23 16 23 0 23 16 23 0 23	18 55 1 41 18 55 1 42 18 55 1 42 18 54 1 42 18 54 1 42	9 20 11 34 9 20 11 34 9 20 11 34 9 21 11 34 9 21 11 33 9 22 11 33 9 22 11 33	2 2 2 2 2 2 2 1 2 1	2 21 2 20 2 19 2 18 2 16 2 15 2 14	9 54 9 52 9 51 9 49 9 47	16 51 4 54 16 52 4 54 16 52 4 54 16 53 4 53 16 54 4 53 16 55 4 53
S 22 M23 T 24 W25 T 26 F 27 S 28	1 39 2 3 2 27 2 50	17 6 4 45 18 5 5 9 18 8 5 18	9 15 3 20 9 17 3 23 9 14 3 25 9 6 3 25 8 55 3 23 8 40 3 20 8 22 3 15 8 0 3 8	9 28 3 48 24 30 9 26 3 37 24 33	1 40 1 40 1 39	0 33 1 6 0 27 1 6 0 22 1 6 0 16 1 6 0 10 1 6 0 4 1 6 0 1 1 1 6	2 26 2 6 2 24 2 6 2 21 2 6	16 21 0 23 16 21 0 23 16 20 0 23 16 20 0 23 16 19 0 23 16 19 0 23	18 54	9 22 11 33 9 23 11 32 9 23 11 32 9 23 11 32 9 24 11 32 9 24 11 31 9 25 11 31	2 1 2 1 2 2 2 2 2 2 2 2 2 2	2 13 2 11 2 10 2 9 2 8 2 6 2 5 2 4	9 43 9 41 9 39 9 38	
M30 T 31		13 31 4 20		9 21 3 17 24 39	1 39 1 39 1n39	0 7 1 6 0 13 1 6 0n19 1s 6	2 18 2 6 2 15 2 6 2 s12 2 s 6	16 18 0 23	18 53 1 42	9 25 11 31 9 25 11 31 9n26 11 s30	2 2	2 4 2 3 2s 1		17 1 4 51

Julian Day Number = 2321212.5, Delta T = 48.11 sec Ecliptic obliquity = $23^{\circ}29'00$, Nutation = $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}45'35$, Lahiri = $18^{\circ}52'35\text{Greg}$. Calendar

APRIL 1643 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(卉	В	R	Ω	Ç	ķ	Day
W 1	12 36 33	11 ° 3'51	3 m 55	10°R41	28≈34	19 Ⅱ 50	3 Y 33	29) (26	15°R57	1°R41	2Д39	5 ♀ 7	5 ₾ 2	27Ω17	8 II 53	W 1
T 2	12 40 29	12° 2'50	15°48	9 Υ 53	29°14	20°24	3°47	29°33	15 M 55	1 才 40	2°40	5° 8	4°58	27°24	8°57	T 2
F 3	12 44 26	13° 1'47	27°47	9° 6	29°56	20°58	4° 2	29°41	15°53	1°40	2°41	5° 8	4°55	27°31	9° 0	F 3
S 4	12 48 22	14° 0'42	9 ₾ 55	8°20	0 ∺ 38	21°33	4°16	29°48	15°51	1°39	2°42	5°R 8	4°52	27°37	9° 4	S 4
S 5	12 52 19	14°59'34	22°13	7°36	1°21	22° 7	4°31	29°55	15°49	1°38	2°43	5° 8	4°49	27°44	9° 7	S 5
M 6	12 56 15	15°58'25	4ML43	6°54	2° 5	22°42	4°45	0 Υ 3	15°47	1°37	2°44	5° 7	4°46	27°51	9°11	M 6
T 7	13 0 12	16°57'14	17°26	6°16	2°50	23°16	5° 0	0°10	15°45	1°36	2°45	5° 5	4°43	27°57	9°15	T 7
W 8	13 4 8	17°56'01	0 ∡ 23	5°42	3°36	23°51	5°14	0°17	15°42	1°35	2°46	5° 4	4°39	28° 4	9°18	W 8
T 9	13 8 5	18°54'46	13°33	5°12	4°23	24°25	5°28	0°24	15°40	1°33	2°47	5° 2	4°36	28°11	9°22	T 9
F 10	13 12 2	19°53'29	26°59	4°47	5°11	25° 0	5°43	0°32	15°38	1°32	2°48	5° 0	4°33	28°17	9°26	F 10
S 11	13 15 58	20°52'11	10 궁 39	4°27	5°59	25°35	5°57	0°39	15°36	1°31	2°49	4°59	4°30	28°24	9°30	S 11
S 12	13 19 55	21°50'51	24°34	4°12	6°49	26° 9	6°11	0°46	15°34	1°30	2°50	4°D59	4°27	28°31	9°34	S 12
M13	13 23 51	22°49'30	8≈43	4° 2	7°39	26°44	6°25	0°53	15°31	1°29	2°51	5° 0	4°23	28°37	9°38	M13
T 14	13 27 48	23°48'07	23° 5	3°D57	8°29	27°19	6°40	1° 0	15°29	1°28	2°52	5° 1	4°20	28°44	9°42	T 14
W15	13 31 44	24°46'42	7) €36	3°58	9°21	27°54	6°54	1° 7	15°27	1°27	2°53	5° 2	4°17	28°51	9°46	W15
T 16	13 35 41	25°45'15	22°12	4° 3	10°13	28°29	7° 8	1°14	15°25	1°25	2°54	5° 3	4°14	28°57	9°50	T 16
F 17	13 39 37	26°43'47	6 Ƴ 49	4°14	11° 5	29° 4	7°22	1°21	15°22	1°24	2°55	5°R 3	4°11	29° 4	9°54	F 17
S 18	13 43 34	27°42'16	21°20	4°29	11°58	29°39	7°36	1°28	15°20	1°23	2°56	5° 3	4° 8	29°11	9°58	S 18
S 19	13 47 31	28°40'44	5 8 40	4°49	12°52	09514	7°50	1°35	15°18	1°22	2°58	5° 1	4° 4	29°17	10° 3	S 19
M20	13 51 27	29°39'10	19°42	5°13	13°46	0°49	8° 4	1°42	15°15	1°20	2°59	4°58	4° 1	29°24	10° 7	M20
T 21	13 55 24	0 ප 37'35	3 Ⅱ 24	5°42	14°41	1°24	8°18	1°49	15°13	1°19	3° 0	4°54	3°58	29°31	10°11	T 21
W22	13 59 20	1°35'57	16°42	6°15	15°37	1°59	8°32	1°56	15°10	1°18	3° 1	4°50	3°55	29°37	10°16	W22
T 23	14 3 17	2°34'17	29°38	6°52	16°32	2°34	8°46	2° 3	15° 8	1°16	3° 2	4°46	3°52	29°44	10°20	T 23
F 24	14 7 13	3°32'35	129513	7°33	17°29	3° 9	9° 0	2° 9	15° 5	1°15	3° 4	4°44	3°48	29°51	10°25	F 24
S 25	14 11 10	4°30'51	24°29	8°17	18°26	3°45	9°14	2°16	15° 3	1°13	3° 5	4°42	3°45	29°57	10°29	S 25
S 26	14 15 6	5°29'05	6 Ω 32	9° 5	19°23	4°20	9°27	2°23	15° 1	1°12	3° 6	4°D41	3°42	0 Mp 4	10°34	S 26
M27	14 19 3	6°27'17	18°26	9°56	20°20	4°55	9°41	2°29	14°58	1°11	3° 7	4°42	3°39	0°11	10°38	M27
T 28	14 23 0	7°25'27	0 m)16	10°51	21°18	5°31	9°55	2°36	14°56	1° 9	3°8	4°43	3°36	0°17	10°43	T 28
W29	14 26 56	8°23'35	12° 6	11°48	22°17	6° 6	10° 8	2°43	14°53	1° 8	3°10	4°45	3°33	0°24	10°47	W29
T 30	14 30 53	9 8 21'41	24 Mp 2	12 Y 49	23 米 16	69641	10 Y 22	2 Υ 49	14 M 51	1 √ 6	3耳11	4 ≗ 47	3 ≏ 29	0 m 31	10耳52	T 30

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W 1	4n23	7n32 2s45	6n40 2n38	9s13 2n58 2	ln44 1n39	0n24 1s	6	2s 9	2s 6	16s17	0n23	18s52	1n42	9n26 11s30	2 s 2	2 s 0	9n28	17n 3 4s50
T 2	4 46	3 59 1 45	6 9 2 26	9 8 2 48 2	46 1 39	0 30 1	6	2 6	2 6	16 16	0 23	18 52	1 42	9 27 11 30	2 2	1 59	9 27	17 3 4 50
F 3	5 9	0 16 0 41	5 38 2 12	9 2 2 39 2	49 1 38	0 36 1	6	2 3	2 6	16 16	0 23	18 52	1 42	9 27 11 30	2 3	1 58	9 25	17 4 4 50
S 4	5 32	3 s32 0n27	5 6 1 57	8 56 2 30 2	51 1 38	0 42 1	6	2 1	2 6	16 15	0 23	18 51	1 42	9 27 11 29	2 3	1 56	9 23	17 5 4 49
S 5	5 55	7 13 1 33	4 35 1 42	8 50 2 21 2	53 1 38	0 47 1	6	1 58	2 6	16 14	0 23	18 51	1 42	9 28 11 29	2 2	1 55	9 22	17 6 4 49
M 6	6 18	10 39 2 37	4 4 1 26	8 42 2 12 2	1 38	0 53 1	6	1 55	2 6	16 14	0 23	18 51	1 42	9 28 11 29	2 2	1 54	9 20	17 6 4 49
T 7	6 40	13 39 3 34	3 34 1 10	8 34 2 3 2	56 1 38	0 59 1	6	1 52	2 6	16 13	0 23	18 51	1 42	9 28 11 29	2 2	1 52	9 19	17 7 4 49
W 8	7 3	16 1 4 20	3 5 0 53	8 26 1 54 2	58 1 37	1 4 1	6	1 49	2 6	16 13	0 23	18 50	1 42	9 29 11 29	2 1	1 51	9 17	17 8 4 49
T 9	7 25	17 36 4 55	2 38 0 37			1 10 1	6	1 46		16 12	0 23	18 50	1 43	9 29 11 28	2 0	1 50	9 15	17 8 4 49
F 10	,	18 14 5 13					6	1 44		16 11	0 23		1 43	9 30 11 28	2 0	1 49		17 9 4 48
S 11	8 10	17 49 5 15	1 50 0 4	7 57 1 29 2	5 1 1 37	1 21 1	6	1 41	2 7	16 11	0 23	18 50	1 43	9 30 11 28	1 59	1 47	9 12	17 10 4 48
S 12		16 21 4 58		7 47 1 21 2				1 38	2 7	16 10	0 23		1 43	9 30 11 28	1 59	1 46		17 11 4 48
M13		13 53 4 23				_	-	1 35	2 7		0 23		1 43	9 31 11 28	1 59	1 45	9 9	-,
T 14		10 31 3 32		7 24 1 5 2				1 33	2 7		0 23		1 43	9 31 11 27	2 0	1 44	9 7	-,
W15	9 37	6 29 2 26				_	-	1 30	2 7	10 0	0 23		1 43	9 32 11 27	2 0	1 42	9 6	17 13 4 47
T 16	9 58	2 1 1 10	0 34 1 9			-		1 27	2 7		0 23		1 43	9 32 11 27	2 1	1 41	9 4	17 14 4 47
F 17	10 19	2n34 0s10	0 26 1 21	6 46 0 43 2				1 24	2 7		0 23	18 48	1 43	9 32 11 27	2 1	1 40	9 2	
S 18	10 41	6 58 1 29	0 21 1 33	6 32 0 36 2	5 4 1 35	2 0 1	7	1 22	2 8	16 6	0 23	18 48	1 43	9 33 11 27	2 1	1 39	9 1	17 15 4 47
S 19	11 1	10 54 2 41	0 19 1 45	6 18 0 29 2	4 1 35	2 6 1	7	1 19	2 8	16 5	0 23	18 48	1 43	9 33 11 27	2 0	1 37	8 59	17 16 4 47
M20	11 22	14 8 3 42	0 19 1 55			2 11 1	7	1 17	2 8	16 5	0 23	18 47	1 43	9 33 11 26	1 59	1 36	8 57	17 17 4 47
T 21	_	16 29 4 28				-		1 14	2 8	16 4	0 23		1 43	9 34 11 26	1 57	1 35		17 17 4 47
W22	_	17 52 4 58	1 1					1 11	2 8		0 23	-	1 43	9 34 11 26	1 56	1 34	-	17 18 4 46
T 23	12 23					· ·	7	1 9	2 8		0 23		1 43	9 35 11 26	1 54	1 32		17 19 4 46
F 24	_	17 45 5 11	0 43 2 29			2 33 1	7	1 6	2 8	-	0 23	-	1 43	9 35 11 26	1 53	1 31	-	17 20 4 46
S 25	13 3	16 25 4 55	0 54 2 36	4 44 0 10 2	1 59 1 34	2 38 1	7	1 4	2 8	16 1	0 23	18 46	1 43	9 35 11 26	1 52	1 30	8 49	17 20 4 46
S 26	13 22	14 22 4 27	1 8 2 42	4 27 0 16 2	58 1 33	2 43 1	7	1 1	2 9	16 0	0 23	18 45	1 43	9 36 11 25	1 52	1 28	8 48	17 21 4 46
M27	13 42	11 44 3 47	1 23 2 47	4 10 0 22 2	57 1 33	2 49 1	7	0 58	2 9	16 0	0 23	18 45	1 43	9 36 11 25	1 52	1 27	8 46	17 22 4 46
T 28	14 1	8 38 2 58	1 41 2 51	3 52 0 27 2		2 54 1	7	0 56	2 9	15 59	0 23	18 45	1 43	9 36 11 25	1 53	1 26	8 44	17 23 4 46
W29	14 20	5 10 2 1	2 0 2 55				7	0 54	2 9		0 23		1 43	9 37 11 25	1 54	1 25	-	17 23 4 46
T 30	14n38	1n29 0s59	2n20 2s58	3s16 0s38 2	ln51 1n32	3n 5 1s	8	0s51	2s 9	15 s58	0n23	18 s44	1n43	9n37 11s25	1 s54	1 s23	8n41	17n24 4s46

Julian Day Number = 2321243.5, Delta T = 48.05 sec Ecliptic obliquity = $23^{\circ}29'00$, Nutation = $0^{\circ}00'01$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}45'39$, Lahiri = $18^{\circ}52'40$ Greg. Calendar

MAY 1643 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ)∤(并	Р	ស	v	Ç	ę,	Day
F 1	14 34 49	10819'45	6 <u>₽</u> 7	13 Y 52	24) 15	<i>7</i> 9517	10 Y 36	2 Υ 56	14°R48	1°R 5	3 Ⅱ 12	4°R47	3 <u>₽</u> 26	0 m /37	10 Ⅲ 57	F 1
S 2	14 38 46	11°17'47	18°25	14°58	25°14	7°52	10°49	3° 2	14 M .46	1 水 3	3°14	4 ≏ 46	3°23	0°44	11° 2	S 2
S 3	14 42 42	12°15'48	0 ™ 57	16° 7	26°14	8°28	11° 3	3° 8	14°43	1° 2	3°15	4°44	3°20	0°51	11° 6	S 3
M 4	14 46 39	13°13'46	13°46	17°19	27°14	9° 3	11°16	3°15	14°40	1° 0	3°16	4°39	3°17	0°57	11°11	M 4
T 5	14 50 35	14°11'44	26°51	18°33	28°15	9°39	11°29	3°21	14°38	0°59	3°17	4°33	3°14	1° 4	11°16	T 5
W 6	14 54 32	15° 9'39	10 ∡ 11	19°49	29°16	10°14	11°43	3°27	14°35	0°57	3°19	4°27	3°10	1°11	11°21	W 6
T 7	14 58 29	16° 7'34	23°45	21° 8	0 Υ 17	10°50	11°56	3°33	14°33	0°56	3°20	4°20	3° 7	1°17	11°26	T 7
F 8	15 2 25	17° 5'27	7 云 31	22°30	1°18	11°26	12° 9	3°40	14°30	0°54	3°21	4°14	3° 4	1°24	11°31	F 8
S 9	15 6 22	18° 3'19	21°25	23°53	2°20	12° 1	12°22	3°46	14°28	0°53	3°23	4°10	3° 1	1°31	11°36	S 9
S 10	15 10 18	19° 1'09	5≈27	25°19	3°22	12°37	12°35	3°52	14°25	0°51	3°24	4° 7	2°58	1°37	11°41	S 10
M11	15 14 15	19°58'58	19°34	26°48	4°25	13°13	12°48	3°58	14°23	0°49	3°25	4°D 6	2°54	1°44	11°46	M11
T 12	15 18 11	20°56'46	3) (44	28°18	5°27	13°48	13° 1	4° 4	14°20	0°48	3°27	4° 7	2°51	1°51	11°51	T 12
W13	15 22 8	21°54'33	17°56	29°51	6°30	14°24	13°14	4° 9	14°18	0°46	3°28	4° 8	2°48	1°57	11°56	W13
T 14	15 26 4	22°52'19	2 Υ 9	1826	7°33	15° 0	13°27	4°15	14°15	0°45	3°29	4°R 9	2°45	2° 4	12° 1	T 14
F 15	15 30 1	23°50'04	16°20	3° 3	8°36	15°36	13°40	4°21	14°13	0°43	3°31	4° 8	2°42	2°11	12° 6	F 15
S 16	15 33 57	24°47'47	0 8 25	4°42	9°40	16°12	13°52	4°27	14°10	0°41	3°32	4° 5	2°39	2°17	12°11	S 16
S 17	15 37 54	25°45'30	14°22	6°24	10°44	16°48	14° 5	4°32	14° 8	0°40	3°33	4° 0	2°35	2°24	12°16	S 17
M18	15 41 51	26°43'11	28° 6	8° 7	11°48	17°23	14°17	4°38	14° 5	0°38	3°35	3°53	2°32	2°31	12°21	M18
T 19	15 45 47	27°40'51	11 II 34	9°53	12°52	17°59	14°30	4°43	14° 3	0°36	3°36	3°45	2°29	2°37	12°26	T 19
W20	15 49 44	28°38'29	24°45	11°41	13°56	18°35	14°42	4°49	14° 1	0°35	3°37	3°35	2°26	2°44	12°32	W20
T 21	15 53 40	29°36'07	7936	13°32	15° 1	19°11	14°54	4°54	13°58	0°33	3°39	3°26	2°23	2°51	12°37	T 21
F 22	15 57 37	0 Ⅲ 33'43	20° 9	15°24	16° 6	19°47	15° 7	4°59	13°56	0°32	3°40	3°18	2°20	2°57	12°42	F 22
S 23	16 1 33	1°31'17	2 Ω 25	17°19	17°10	20°23	15°19	5° 5	13°53	0°30	3°42	3°12	2°16	3° 4	12°47	S 23
S 24	16 5 30	2°28'50	14°27	19°15	18°16	20°59	15°31	5°10	13°51	0°28	3°43	3° 8	2°13	3°11	12°52	S 24
M25	16 9 27	3°26'22	26°21	21°14	19°21	21°36	15°43	5°15	13°49	0°27	3°44	3° 6	2°10	3°17	12°58	M25
T 26	16 13 23	4°23'52	8 m)11	23°15	20°26	22°12	15°55	5°20	13°46	0°25	3°46	3°D 6	2° 7	3°24	13° 3	T 26
W27	16 17 20	5°21'21	20° 1	25°17	21°32	22°48	16° 7	5°25	13°44	0°24	3°47	3° 7	2° 4	3°31	13° 8	W27
T 28	16 21 16	6°18'49	1 ≏ 59	27°22	22°38	23°24	16°18	5°30	13°42	0°22	3°48	3°R 7	2° 0	3°37	13°13	T 28
F 29	16 25 13	7°16'15	14° 7	29°28	23°43	24° 0	16°30	5°35	13°40	0°20	3°50	3° 7	1°57	3°44	13°19	F 29
S 30	16 29 9	8°13'40	26°32	1Д35	24°50	24°36	16°42	5°39	13°37	0°19	3°51	3° 4	1°54	3°51	13°24	S 30
S 31	16 33 6	9 Ⅱ 11'04	9 M .15	3 Ⅱ 44	25 Y 56	259913	16 Y 53	5 Ƴ 44	13 M 35	0 ∡ 17	3耳53	3 ₾ 0	1 ≏ 51	3 m 57	13 Ⅱ 29	S 31

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F 1 S 2	14n57 15 15	2s19 On 7 6 6 1 14		2 s 57		3n10 1s 8 3 15 1 8		15 s57 0n23 15 56 0 23	18 s44 1 n43 18 44 1 43	9n37 11s25 9 38 11 25			39 17n25 4s45 38 17 26 4 45
S 3 M 4 T 5	15 33 15 50 16 8		4 0 3 3	2 19 0 53 24 4 1 59 0 58 24 4 1 39 1 3 24 3	2 1 31	3 20 1 8 3 25 1 8 3 31 1 8	0 41 2 10		18 43 1 43 18 43 1 43 18 43 1 43	9 38 11 24 9 38 11 24 9 39 11 24	1 51 1	18 8 3	36 17 26 4 45 35 17 27 4 45 33 17 28 4 45
W 6 T 7 F 8 S 9	16 42 16 58	18 16 5 4	5 29 3 0 6 1 2 58	1 19 1 7 24 3 0 59 1 11 24 3 0 38 1 15 24 2 0 17 1 19 24 2	3 1 31 9 1 30		0 34 2 10 0 32 2 10	15 53 0 23 15 52 0 23 15 52 0 23 15 51 0 23	18 42 1 43 18 42 1 43 18 42 1 43 18 41 1 43	9 39 11 24 9 40 11 24 9 40 11 24 9 40 11 24	1 44 1 1 41 1	15 8 3 13 8 2	31 17 28 4 45 30 17 29 4 45 28 17 30 4 45 26 17 31 4 45
S 10 M11 T 12		14 40 4 25		0n 4 1 23 24 2 0 25 1 27 24 1 0 47 1 31 24 1	2 1 30 9 1 30	3 56 1 9	0 28 2 11 0 25 2 11	15 50 0 23 15 49 0 23	18 41 1 43 18 41 1 43 18 40 1 43	9 41 11 24 9 41 11 24 9 41 11 24		11 8 2 9 8 2	25 17 31 4 45 23 17 32 4 45 21 17 33 4 45
W13 T 14 F 15	18 17 18 31 18 46	3 27 1 26 1n 1 0 11 5 26 1s 5	8 58 2 38 9 36 2 33 10 15 2 27	1 9 1 34 24 1 1 31 1 37 24 1 53 1 41 24	1 1 29 6 1 29 2 1 28	4 11 1 9 4 15 1 9 4 20 1 9	0 21 2 11 0 19 2 11 0 17 2 12	15 48 0 23 15 47 0 23 15 47 0 22	18 40 1 43 18 40 1 43 18 39 1 43	9 42 11 23 9 42 11 23 9 42 11 23	1 39 1 1 39 1 1 39 1	7 8 2 6 8 1 4 8 1	20 17 33 4 45 18 17 34 4 45 16 17 35 4 45
S 16 S 17 M18	19 0 19 14 19 28	13 0 3 19 15 44 4 9		2 15 1 44 23 5 2 37 1 47 23 5 3 0 1 49 23 4	1 28 1 28	4 25 1 9 4 30 1 9 4 35 1 10	0 13 2 12 0 11 2 12	15 45 0 22 15 44 0 22	18 39 1 43 18 38 1 43	9 42 11 23 9 43 11 23 9 43 11 23	1 38 1 1 36 1 1 33 1	2 8 1	15 17 35 4 45 13 17 36 4 45 11 17 37 4 45
T 19 W20 T 21 F 22			13 39 1 49 14 20 1 40	3 22 1 52 23 4 3 45 1 55 23 3 4 8 1 57 23 3 4 30 1 59 23 2	3 1 27 2 1 27	4 39 1 10 4 44 1 10 4 49 1 10 4 53 1 10	0 7 2 13 0 5 2 13	15 43 0 22 15 42 0 22	18 38 1 43 18 38 1 43 18 37 1 43 18 37 1 43	9 43 11 23 9 44 11 23 9 44 11 23 9 44 11 23	1 26 0 1 22 0	58 8 57 8	10 17 37 4 45 8 17 38 4 45 6 17 39 4 45 5 17 39 4 45
S 23 S 24	20 30 20 42	15 19 4 27 12 51 3 50	15 44 1 21 16 26 1 11	4 53 2 1 23 2 5 16 2 3 23 1	1 1 26 5 1 26	4 58 1 10 5 2 1 10	0 1 2 13 0 0n 1 2 13	15 41 0 22 15 40 0 22	18 37 1 43 18 36 1 43	9 45 11 23 9 45 11 23	1 17 0 1 15 0	54 853 8	3 17 40 4 45 1 17 41 4 45
W27	20 53 21 4 21 14	6 31 2 9 2 54 1 10	18 28 0 40	6 2 2 7 23 6 25 2 9 22 5		5 11 1 11 5 16 1 11	0 4 2 14 0 6 2 14	15 39 0 22 15 38 0 22	18 36 1 43 18 36 1 43 18 35 1 43	9 45 11 23 9 45 11 23 9 46 11 23	1 14 0 1 14 0	49 7 5	0 17 41 4 45 58 17 42 4 45 56 17 42 4 45
F 29 S 30	21 24 21 34 21 43	8 22 2 2	19 8 0 29 19 46 0 18 20 24 0 8	6 48 2 10 22 5 7 11 2 12 22 4 7 34 2 13 22 3	4 1 24 7 1 24	5 20 1 11 5 24 1 11 5 29 1 11	0 10 2 15 0 11 2 15	15 37 0 22 15 37 0 22 15 36 0 22	18 34 1 43	9 46 11 23 9 46 11 23 9 46 11 23	1 14 0 1 13 0	47 7 5 45 7 5	55 17 43 4 45 53 17 44 4 45 51 17 44 4 45
S 31	21n52	11 s45 3n 0	20n59 On 3	7n57 2s14 22n3	1n24	5n33 1s11	0n13 2s15	15 s36 0n22	18 s 34 1 n 4 3	9n47 11s23	1 s12 0	544 7n5	50 17n45 4s45

Julian Day Number = 2321273.5, Delta T = 48.00 sec

Ecliptic obliquity = $23^{\circ}28'59$, Nutation = $-0^{\circ}00'00$, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 19°45'43, Lahiri = 18°52'44Greg. Calendar

JUNE 1643 GC 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ)Å(¥	Р	n	Ω	Ç	ķ	Day
M 1	16 37 2	10 I I 8'28	22 M 20	5 Ⅱ 54	27 ° 2	259649	17 Y 4	5 Υ 49	13°R33	0°R15	3 Ⅱ 54	2°R52	1 ≏ 48	4 Mp 4	13 II 35	M 1
T 2	16 40 59	11° 5'50	5 ₹ 45	8° 5	28° 9	26°25	17°16	5°53	13 M .31	0 才 14	3°55	2 ≏ 43	1°45	4°11	13°40	T 2
W 3	16 44 56	12° 3'11	19°30	10°17	29°15	27° 1	17°27	5°57	13°29	0°12	3°57	2°32	1°41	4°17	13°45	W 3
T 4	16 48 52	13° 0'32	3 云 30	12°29	0 8 22	27°38	17°38	6° 2	13°27	0°11	3°58	2°22	1°38	4°24	13°51	T 4
F 5	16 52 49	13°57'52	17°42	14°41	1°29	28°14	17°49	6° 6	13°25	0° 9	3°59	2°12	1°35	4°31	13°56	F 5
S 6	16 56 45	14°55'11	1≈59	16°53	2°36	28°50	18° 0	6°10	13°23	0° 8	4° 1	2° 4	1°32	4°37	14° 1	S 6
S 7	17 0 42	15°52'29	16°18	19° 4	3°43	29°27	18°11	6°14	13°21	0° 6	4° 2	1°59	1°29	4°44	14° 7	S 7
M 8	17 4 38	16°49'48	0) €34	21°15	4°50	0 Ω 3	18°21	6°18	13°19	0° 4	4° 3	1°56	1°26	4°51	14°12	M 8
T 9	17 8 35	17°47'06	14°45	23°25	5°58	0°39	18°32	6°22	13°17	0° 3	4° 5	1°D55	1°22	4°57	14°17	T 9
W10	17 12 31	18°44'23	28°49	25°33	7° 5	1°16	18°43	6°26	13°15	0° 1	4° 6	1°R55	1°19	5° 4	14°22	W10
T 11	17 16 28	19°41'40	12 Y 46	27°41	8°13	1°52	18°53	6°30	13°13	29M59	4° 7	1°55	1°16	5°11	14°28	T 11
F 12	17 20 25	20°38'57	26°36	29°46	9°21	2°29	19° 3	6°34	13°11	29°58	4° 9	1°53	1°13	5°17	14°33	F 12
S 13	17 24 21	21°36'14	10817	1950	10°29	3° 5	19°13	6°37	13° 9	29°57	4°10	1°49	1°10	5°24	14°38	S 13
S 14	17 28 18	22°33'30	23°49	3°53	11°37	3°42	19°24	6°41	13° 7	29°55	4°11	1°42	1° 6	5°31	14°44	S 14
M15	17 32 14	23°30'46	7 Ⅱ 10	5°53	12°45	4°18	19°34	6°44	13° 6	29°54	4°13	1°32	1° 3	5°37	14°49	M15
T 16	17 36 11	24°28'02	20°18	7°51	13°53	4°55	19°43	6°48	13° 4	29°53	4°14	1°20	1° 0	5°44	14°54	T 16
W17	17 40 7	25°25'17	39913	9°47	15° 1	5°32	19°53	6°51	13° 2	29°51	4°15	1° 8	0°57	5°51	15° 0	W17
T 18	17 44 4	26°22'32	15°52	11°41	16°10	6° 8	20° 3	6°54	13° 1	29°50	4°17	0°55	0°54	5°57	15° 5	T 18
F 19	17 48 0	27°19'46	28°17	13°33	17°18	6°45	20°12	6°57	12°59	29°48	4°18	0°44	0°51	6° 4	15°10	F 19
S 20	17 51 57	28°17'00	10 Ω 27	15°23	18°27	7°22	20°22	7° 0	12°58	29°47	4°19	0°35	0°47	6°11	15°15	S 20
S 21	17 55 54	29°14'13	22°27	17°11	19°35	7°58	20°31	7° 3	12°56	29°46	4°20	0°28	0°44	6°17	15°21	S 21
M22	17 59 50	09511'26	4Mp 19	18°56	20°44	8°35	20°40	7° 6	12°55	29°44	4°22	0°24	0°41	6°24	15°26	M22
T 23	18 3 47	1° 8'39	16° 7	20°39	21°53	9°12	20°49	7° 9	12°53	29°43	4°23	0°23	0°38	6°31	15°31	T 23
W24	18 7 43	2° 5'50	27°57	22°20	23° 2	9°49	20°58	7°11	12°52	29°42	4°24	0°22	0°35	6°37	15°36	W24
T 25	18 11 40	3° 3'02	9 ≙ 53	23°59	24°11	10°25	21° 7	7°14	12°51	29°40	4°25	0°22	0°31	6°44	15°41	T 25
F 26	18 15 36	4° 0'13	22° 2	25°36	25°20	11° 2	21°15	7°16	12°49	29°39	4°27	0°21	0°28	6°51	15°47	F 26
S 27	18 19 33	4°57'24	4M29	27°10	26°29	11°39	21°24	7°19	12°48	29°38	4°28	0°19	0°25	6°57	15°52	S 27
S 28	18 23 29	5°54'34	17°18	28°42	27°38	12°16	21°32	7°21	12°47	29°36	4°29	0°14	0°22	7° 4	15°57	S 28
M29	18 27 26	6°51'45	0 ₹ 31	0Ω 11	28°48	12°53	21°40	7°23	12°46	29°35	4°30	0° 7	0°19	7°11	16° 2	M29
T 30	18 31 23	79548'55	14 ×7 9	1 Ω 39	29 8 57	13 £ 30	21 Y 48	7 Y 25	12 M .45	29 M 34	4 Ⅲ 31	29 m 57	0 ჲ 16	7 m) 17	16 II 7	T 30

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M 1	22n 1	14 s40		21n33	-	8n20		22n23	1n24	5n37	1 s11	0n15		15 s35			1n43	9n47 11 s23		0 s43		17n45	4 s45
T 2	22 9	10 02	4 30	-	0 24	8 43		22 16	1 23	5 41	1 12	0 16		15 34		18 33	1 43	9 47 11 23	1 5	0 42		17 46	4 45
W 3	22 17 22 24	-		22 36 23 4	0 34 0 44	9 6 9 29		22 9 22 1	1 23 1 23	5 45 5 49	1 12 1 12	0 18 0 19	2 16	15 34 15 33	-		1 43 1 43	9 47 11 22 9 48 11 22	0 56	0 40 0 39		17 46 17 47	4 45
F 5	22 24	17 30	5 2 4 51		0 53	9 29		21 54	1 23	5 54	1 12	0 19		15 33			1 43	9 48 11 22	0 50	0 39		17 47	4 45
S 6	22 38			23 52		10 14		21 46	1 22	5 58	1 12	0 22		15 32			1 43	9 48 11 23		0 37		17 48	4 45
S 7	22 44	-		24 12		10 36		21 38	1 22	6 1	1 12	0 23		15 31		18 32	1 43	9 48 11 23	0 47	0 35		17 49	4 46
M 8	22 50	8 50		24 30		10 58		21 30	1 21	6 5	1 13	0 25		15 31	0 22		1 43	9 49 11 23	0 46	0 34		17 49	4 46
T 9	22 55			24 45	-	11 21		21 22	1 21	6 9	1 13	0 26		15 30			1 43	9 49 11 23	0 46	0 33		17 50	4 46
W10 T 11	23 0			24 56		11 43		21 14		6 13	1 13	0 28		15 30			1 43	9 49 11 23	0 46	0 32		17 50	4 46
F 12	23 5 23 9	4n11 8 18		25 6 25 12			2 19	21 5 20 56	1 20 1 20	6 17 6 21	1 13 1 13	0 29 0 30		15 29 15 29			1 43 1 43	9 49 11 23 9 49 11 23	0 46 0 45	0 30 0 29		17 50 17 51	4 46
S 13		11 57		25 15				20 48	1 20	6 24	1 13	0 30		15 28			1 43	9 50 11 23	0 43	0 29		17 51	4 46
S 14	-			25 16	-	13 9		20 39	1 19	6 28	1 14	0 32		15 27	-		1 43	9 50 11 23		0 26		17 52	4 46
M15	23 19			25 15		13 30		20 30	1 19	6 32	1 14	0 34	2 19		0 22		1 43	9 50 11 23	0 37	0 25		17 52	4 46
T 16	_			25 11		13 51	2 17		1 19	6 35	1 14	0 35		15 26	-		1 43	9 50 11 23	0 32	0 24		17 53	4 47
W17		18 26		25 4		14 12		20 11	1 18	6 39	1 14	0 36		15 26			1 43	9 50 11 23	0 27	0 23		17 53	4 47
	23 26 23 27	16 11	-	24 56 24 45		14 32 14 52	2 16	20 2 19 52	1 18 1 18	6 42 6 45	1 14 1 15	0 37 0 38		15 26 15 25			1 43	9 51 11 23 9 51 11 23	0 22 0 17	0 21 0 20		17 54 17 54	4 47
S 20	-	-		24 43 24 32				19 43	1 17	6 49	1 15	0 38		15 25		18 28	1 43	9 51 11 23		0 19		17 54	4 47
S 21	23 29	11 7	3 6	24 17	1 56	15 31	2 13	19 33	1 17	6 52	1 15	0 39	2 20	15 24	0 22	18 28	1 43	9 51 11 23	0 11	0 18	7 14	17 55	4 47
M22	23 29		2 13		-			19 23	1 17	6 55	1 15	0 40		15 24	-		1 43	9 51 11 23		0 16		17 55	4 48
	23 29		-	23 43	-	16 10		19 13		6 59	1 15	0 41		15 23		18 27	1 43	9 51 11 23	0 9	0 15		17 56	4 48
W24	23 28	0 37		23 24	-	16 28		19 3	1 16	7 2	1 16	0 42	2 21				1 43	9 51 11 23	0 9	0 14		17 56	4 48
T 25	23 27	3s 9	0n50			16 47		18 52	1 16		1 16	0 43	2 21				1 43	9 52 11 23	0 9	0 13		17 56	4 48
F 26 S 27	23 25 23 23	6 52 10 22		22 41 22 18		17 5 17 22		18 42 18 31	1 15 1 15	7 8 7 11	1 16 1 16	0 43 0 44		15 22 15 22		18 27 18 26	1 43 1 42	9 52 11 23 9 52 11 23	0 8 0 7	0 11 0 10		17 57 17 57	4 48 4 49
S 28	23 21	13 29	3 41	21 54	1 28	17 40	2 4	18 21	1 15	7 14	1 16	0 45	2 22	15 22	0 22	18 26	1 42	9 52 11 24	0 6	0 9	7 2	17 57	4 49
	23 18	-		21 29		17 56		18 10	1 14	7 17	1 17	0 45		15 21	0 22		1 42	9 52 11 24		0 7		17 58	4 49
T 30	23n15	17 s44	4n50	21n 3	1n15	18n13	2s 0	17n59	1n14	7n19	1 s17	0n46	2 s23	15 s21	0n22	18 s 26	1n42	9n52 11s24	0n 1	0s 6	6n59	17n58	4 s49

Julian Day Number = 2321304.5, Delta T = 47.94 sec Ecliptic obliquity = 23°28'59, Nutation = -0°00'00, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°45'47, Lahiri = 18°52'48Greg. Calendar

JULY 1643 GC 00:00 UT

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Day	Sid.t	0	D	ğ	Q.	ď	4	ħ)Å(¥	Р	N.	v	Ç	ķ	Day
W 1	18 35 19	8946'05	28 × 12	3 Ω 4	1 I 7	14Ω 7	21 Y 56	7 Υ 27	12°R44	29°R33	4 Ⅱ 32	29°R46	0 ჲ 12	7 m 24	16 I I12	W 1
T 2	18 39 16	9°43'15	12 る 35	4°27	2°16	14°44	22° 4	7°29	12 M .43	29MJ32	4°34	29 m 35	0° 9	7°31	16°17	T 2
F 3	18 43 12	10°40'25	27°11	5°47	3°26	15°21	22°12	7°31	12°42	29°31	4°35	29°25	0° 6	7°37	16°22	F 3
S 4	18 47 9	11°37'35	11≈54	7° 5	4°36	15°58	22°19	7°32	12°41	29°29	4°36	29°16	0° 3	7°44	16°27	S 4
S 5	18 51 5	12°34'46	26°35	8°20	5°45	16°35	22°26	7°34	12°40	29°28	4°37	29°11	29 m 59	7°50	16°32	S 5
M 6	18 55 2	13°31'57	11) 8	9°33	6°55	17°12	22°34	7°35	12°39	29°27	4°38	29° 8	29°57	7°57	16°37	M 6
T 7	18 58 58	14°29'08	25°30	10°44	8° 5	17°49	22°41	7°37	12°38	29°26	4°39	29°D 7	29°53	8° 4	16°42	T 7
W 8	19 2 55	15°26'20	9 Ƴ 38	11°51	9°15	18°26	22°48	7°38	12°38	29°25	4°40	29°R 7	29°50	8°10	16°47	W 8
T 9	19 6 52	16°23'33	23°31	12°56	10°26	19° 3	22°54	7°39	12°37	29°24	4°41	29° 7	29°47	8°17	16°52	T 9
F 10	19 10 48	17°20'46	7 8 10	13°58	11°36	19°40	23° 1	7°40	12°36	29°23	4°42	29° 5	29°44	8°24	16°57	F 10
S 11	19 14 45	18°18'00	20°35	14°58	12°46	20°17	23° 7	7°41	12°36	29°22	4°44	29° 2	29°41	8°30	17° 1	S 11
S 12	19 18 41	19°15'15	3 Ⅱ 47	15°54	13°56	20°55	23°14	7°42	12°35	29°21	4°45	28°55	29°37	8°37	17° 6	S 12
M13	19 22 38	20°12'30	16°47	16°47	15° 7	21°32	23°20	7°43	12°35	29°21	4°46	28°47	29°34	8°44	17°11	M13
T 14	19 26 34	21° 9'46	29°34	17°36	16°17	22° 9	23°26	7°44	12°34	29°20	4°47	28°36	29°31	8°50	17°16	T 14
W15	19 30 31	22° 7'03	129510	18°23	17°28	22°46	23°32	7°44	12°34	29°19	4°48	28°24	29°28	8°57	17°20	W15
T 16	19 34 27	23° 4'20	24°34	19° 5	18°39	23°24	23°37	7°45	12°34	29°18	4°49	28°13	29°25	9° 4	17°25	T 16
F 17	19 38 24	24° 1'37	6 Ω 47	19°44	19°49	24° 1	23°43	7°45	12°33	29°17	4°50	28° 3	29°22	9°10	17°30	F 17
S 18	19 42 21	24°58'55	18°50	20°20	21° 0	24°38	23°48	7°45	12°33	29°17	4°50	27°54	29°18	9°17	17°34	S 18
S 19	19 46 17	25°56'14	0 m /44	20°51	22°11	25°16	23°53	7°45	12°33	29°16	4°51	27°48	29°15	9°24	17°39	S 19
M20	19 50 14	26°53'33	12°33	21°18	23°22	25°53	23°58	7°R45	12°33	29°15	4°52	27°45	29°12	9°30	17°43	M20
T 21	19 54 10	27°50'52	24°19	21°40	24°33	26°31	24° 3	7°45	12°33	29°14	4°53	27°D44	29° 9	9°37	17°48	T 21
W22	19 58 7	28°48'12	6 ℃ 8	21°58	25°44	27° 8	24° 8	7°45	12°D33	29°14	4°54	27°44	29° 6	9°44	17°52	W22
T 23	20 2 3	29°45'32	18° 4	22°12	26°55	27°46	24°12	7°45	12°33	29°13	4°55	27°45	29° 3	9°50	17°57	T 23
F 24	20 6 0	0 Ω 42'53	0 M .11	22°20	28° 6	28°23	24°16	7°44	12°33	29°13	4°56	27°R45	28°59	9°57	18° 1	F 24
S 25	20 9 56	1°40'15	12°37	22°R24	29°17	29° 1	24°20	7°44	12°33	29°12	4°57	27°44	28°56	10° 4	18° 5	S 25
S 26	20 13 53	2°37'37	25°24	22°22	0929	29°38	24°24	7°43	12°33	29°12	4°57	27°42	28°53	10°10	18°10	S 26
M27	20 17 50	3°34'59	8 ₹ 38	22°15	1°40	0 m /16	24°28	7°43	12°34	29°11	4°58	27°38	28°50	10°17	18°14	M27
T 28	20 21 46	4°32'23	2 <u>2</u> °19	22° 3	2°51	0°53	24°32	7°42	12°34	29°11	4°59	27°31	28°47	10°24	18°18	T 28
W29	20 25 43	5°29'47	6 ට 29	21°46	4° 3	1°31	24°35	7°41	12°34	29°10	5° 0	27°24	28°43	10°30	18°22	W29
T 30	20 29 39	6°27'12	21° 2	21°24	5°14	2° 9	24°38	7°40	12°35	29°10	5° 1	27°16	28°40	10°37	18°26	T 30
F 31	20 33 36	7 Ω 24'37	5≈54	20 Ω 57	6926	2 Mp 46	24 Y 41	7 Ƴ 39	12 M 35	29M 9	5 I 1	27 m 9	28 m 37	10 m 43	18耳30	F 31

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M13 T 14 W15 T 16 F 17 S 18	21 40 21 30	18 26 5 3 18 3 4 54 16 47 4 32 14 47 3 57	14 30 14 4 13 39 13 14	1 8 21 17 1 21 21 26 1 33 21 35 1 47 21 44	1 33 15 27 1 30 15 14 1 27 15 2 1 25 14 49 1 22 14 37 1 20 14 24	1 9 1 9 1 9 1 8 1 8	7 51 7 53 7 54 7 56 7 58 8 0	1 20 1 20 1 20 1 21 1 21 1 21	0 50 0 50 0 50 0 49 0 49 0 49	2 27 2 27 2 27 2 27 2 27		0 21 0 21 0 21 0 21	18 23 18 23 18 23 18 23 18 23 18 23	1 42 1 42 1 42 1 42 1 42 1 42	9 53 11 25 9 53 11 25 9 53 11 26 9 53 11 26 9 53 11 26 9 53 11 26	0 29 0 33 0 38 0 43 0 47 0 50	0 10 0 12 0 13 0 14 0 15 0 17	6 37 6 35 6 33 6 31 6 30 6 28	18 1 18 1 18 1 18 1	4 52 4 53 4 53 4 53 4 54 4 54
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S 26 M27 T 28 W29 T 30 F 31	19 23 19 10 18 56 18 42	17 0 4 51 18 10 5 6 18 17 5 3 17 12 4 41	10 25 10 18 10 14 10 13	3 55 22 34 0 4 6 22 36 0 4 16 22 37 0 4 25 22 37 0	0 57 12 38 0 54 12 24 0 51 12 10 0 48 11 57 0 46 11 43 0 843 11n29	1 5 1 4 1 4 1 3 1 3 1n 3	8 11 8 12 8 13 8 14 8 15 8n16	1 23 1 23 1 24 1 24 1 24 1 s24	0 46 0 46 0 45 0 45 0 44 0n43	2 30 2 30 2 31 2 31	15 18 15 18 15 18 15 18 15 19 15 s19	0 21 0 21 0 21 0 21	18 22 18 22 18 22 18 22 18 22 18 32	1 41 1 41 1 41 1 41 1 41 1 n41	9 53 11 27 9 53 11 27 9 53 11 28 9 53 11 28 9 53 11 28 9n53 11 s28	0 55 0 57 0 59 1 2 1 5 1n 8	0 27 0 28 0 29 0 30 0 32 0n33		18 2 18 2 18 2 18 2	4 56 4 57 4 57 4 58 4 58 4 58

Julian Day Number = 2321334.5, Delta T = 47.88 sec Ecliptic obliquity = 23°28'58, Nutation = $0^\circ00'00$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^\circ45'52$, Lahiri = $18^\circ52'52$ Greg. Calendar

AUGUST 1643 GC 00:00 UT

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S 1	20 37 32	8 Ω 22'04	20≈56	20°R25	7938	3 Mp 24	24 Y 44	7°R38	12 M .36	29°R 9	5 Ⅱ 2	27°R 3	28 m 34	10 m 50	18 Ⅲ 34	S 1
S 2	20 41 29	9°19'32	5 ¥ 58	19 Ω 49	8°49	4° 2	24°46	7 Y 37	12°36	29M 9	5° 3	26 m 59	28°31	10°57	18°38	S 2
M 3	20 45 25	10°17'00	20°52	19° 9	10° 1	4°40	24°49	7°35	12°37	29° 9	5° 3	26°D57	28°28	11° 3	18°42	M 3
T 4	20 49 22	11°14'31	5 Ƴ 32	18°25	11°13	5°17	24°51	7°34	12°37	29° 8	5° 4	26°58	28°24	11°10	18°46	T 4
W 5	20 53 19	12°12'02	19°52	17°39	12°25	5°55	24°53	7°32	12°38	29° 8	5° 5	26°59	28°21	11°17	18°50	W 5
T 6	20 57 15	13° 9'35	3 8 52	16°51	13°37	6°33	24°55	7°31	12°39	29° 8	5° 5	27° 0	28°18	11°23	18°54	T 6
F 7	21 1 12	14° 7'10	17°30	16° 2	14°49	7°11	24°57	7°29	12°40	29° 8	5° 6	27°R 0	28°15	11°30	18°57	F 7
S 8	21 5 8	15° 4'46	0 П 49	15°13	16° 1	7°49	24°58	7°27	12°41	29° 8	5° 6	26°59	28°12	11°37	19° 1	S 8
S 9	21 9 5	16° 2'23	13°49	14°25	17°13	8°27	24°59	7°25	12°42	29° 8	5° 7	26°56	28° 9	11°43	19° 5	S 9
M10	21 13 1	17° 0'02	26°35	13°38	18°25	9° 5	25° 0	7°23	12°42	29° 7	5° 8	26°51	28° 5	11°50	19°8	M10
T 11	21 16 58	17°57'43	995 6	12°54	19°38	9°43	25° 1	7°21	12°44	29°D 7	5° 8	26°45	28° 2	11°57	19°12	T 11
W12	21 20 54	18°55'25	21°26	12°13	20°50	10°21	25° 2	7°19	12°45	29° 7	5° 9	26°38	27°59	12° 3	19°15	W12
T 13	21 24 51	19°53'08	3 Ω 36	11°37	22° 2	10°59	25° 2	7°16	12°46	29° 8	5° 9	26°32	27°56	12°10	19°18	T 13
F 14	21 28 48	20°50'53	15°37	11° 6	23°15	11°37	25° 3	7°14	12°47	29° 8	5°10	26°26	27°53	12°17	19°22	F 14
S 15	21 32 44	21°48'39	27°32	10°41	24°27	12°15	25°R 3	7°11	12°48	29° 8	5°10	26°21	27°49	12°23	19°25	S 15
S 16	21 36 41	22°46'27	9 m 21	10°22	25°40	12°54	25° 3	7° 9	12°49	29° 8	5°10	26°18	27°46	12°30	19°28	S 16
M17	21 40 37	23°44'16	21° 8	10°11	26°52	13°32	25° 2	7° 6	12°51	29° 8	5°11	26°D17	27°43	12°37	19°31	M17
T 18	21 44 34	24°42'06	2 ≏ 55	10°D 7	28° 5	14°10	25° 2	7° 3	12°52	29° 8	5°11	26°17	27°40	12°43	19°35	T 18
W19	21 48 30	25°39'58	14°45	10°10	29°18	14°48	25° 1	7° 1	12°54	29° 8	5°12	26°18	27°37	12°50	19°38	W19
T 20	21 52 27	26°37'50	26°42	10°22	0Ω31	15°27	25° 0	6°58	12°55	29° 9	5°12	26°20	27°34	12°56	19°41	T 20
F 21	21 56 23	27°35'45	8 M .50	10°41	1°43	16° 5	24°59	6°55	12°57	29° 9	5°12	26°21	27°30	13° 3	19°43	F 21
S 22	22 0 20	28°33'40	21°14	11° 9	2°56	16°43	24°57	6°52	12°58	29° 9	5°13	26°22	27°27	13°10	19°46	S 22
S 23	22 4 17	29°31'37	3 ₹ 58	11°44	4° 9	17°22	24°56	6°48	13° 0	29°10	5°13	26°R22	27°24	13°16	19°49	S 23
M24	22 8 13	0 m 29'35	17° 7	12°27	5°22	18° 0	24°54	6°45	13° 1	29°10	5°13	26°21	27°21	13°23	19°52	M24
T 25	22 12 10	1°27'34	0 궁 43	13°17	6°35	18°39	24°52	6°42	13° 3	29°11	5°13	26°19	27°18	13°30	19°54	T 25
W26	22 16 6	2°25'35	14°47	14°15	7°48	19°17	24°50	6°38	13° 5	29°11	5°14	26°17	27°15	13°36	19°57	W26
T 27	22 20 3	3°23'38	29°17	15°20	9° 2	19°56	24°48	6°35	13° 7	29°12	5°14	26°13	27°11	13°43	19°59	T 27
F 28	22 23 59	4°21'41	14≈10	16°31	10°15	20°34	24°45	6°31	13° 8	29°12	5°14	26°11	27° 8	13°50	20° 2	F 28
S 29	22 27 56	5°19'46	29°18	17°49	11°28	21°13	24°43	6°28	13°10	29°13	5°14	26° 8	27° 5	13°56	20° 4	S 29
S 30	22 31 52	6°17'53	14) (31	19°12	12°41	21°51	24°40	6°24	13°12	29°13	5°14	26° 7	27° 2	14° 3	20° 7	S 30
M31	22 35 49	7 Mp 16'02	29 米 40	20 Ω 40	13 N 55	22 m 30	24 Y 37	6 Υ 20	13 M .14	29 IL 14	5 Ⅱ 14	26°D 7	26 m 59	14 m 10	20耳 9	M31

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F 14		-	-			21 27	0 1	8 6	0 57	8 21	1 28	0 30		15 23	0 20		1 40	9 52 11 31	1 25	0 51	5 41		5 4
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M17	13 38	3 5	0 28	15 4	2 46	20 56	0 7	7 21	0 56	8 20	1 29	0 27	2 36	15 24	0 20	18 23	1 40	9 51 11 31	1 29	0 55	5 36	18 0	5 5
T 18	13 19			15 22	2 28		0 10	7 6	0 55	8 19	1 29	0 25		15 24	0 20	18 23	1 40	9 51 11 32	-	0 56		18 0	5 6
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F 21	12 20	-		16 5	1 34		0 18	6 20	0 54	8 18	1 30	0 21		15 26			1 40	9 51 11 32		1 0		17 59	5 7
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M24	-		-	16 26	0 42		0 26	5 34	0 53	8 15	1 30	0 17		15 27	0 20		1 39	9 50 11 33		1 3		17 58	5 8
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W26 T 27	10 38 10 17			16 25 16 20	0 10 0n 5		0 31 0 34	5 3 4 47	0 52 0 51	8 13 8 12	1 31 1 31	0 14 0 12		15 28 15 29			1 39 1 39	9 50 11 33 9 50 11 33	- 1	1 6 1 7		17 58 17 57	5 9 5 10
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S 29	9 34			16 1	0 32		0 38	4 16	0 51	8 10	1 32	0 9		15 30			1 39	9 49 11 34		1 10		17 57	5 11
S 30	9 13	5 8	1 4	15 47	0 44	17 41	0 41	4 0	0 50	8 9	1 32	0 8	2 38	15 31	0 20	18 25	1 39	9 49 11 34	1 33	1 11	5 13	17 56	5 11
M31	8n51	0 s 2 6	$0\mathrm{s}20$	15n30	0n55	17n22	0n43	3n45	0n50	8n 7	1 s32	0n 6	2 s38	15 s31	0n20	18 s25	1n39	9n49 11s34	1n33	1n12	5n11	17n56	5 s12

 $\label{eq:Julian Day Number = 2321365.5, Delta T = 47.82 sec} \\ Ecliptic obliquity = 23°28'59, Nutation = ~0°00'01, out-of-bounds declination in red$

SEPTEMBER 1643 GC 00:00 UT

JLI	ILIIDLK	1073 U	C												00.0	0.
Day	Sid.t	0	D	ğ	P	ð	4	ħ)મ(并	В	S.	v	Ç	Ŷ,	Day
T 1	22 39 45	8 mg 14'12	14 Y 36	22 \Omega 13	15 N 8	23 Mp 9	24°R33	6°R17	13 M .16	29 M .15	5 Ⅱ 14	26Mp 7	26 M 55	14 M 16	20 I I11	T 1
W 2	22 43 42	9°12'25	29°12	23°50	16°21	23°47	24 Y 30	6 Ƴ 13	13°18	29°15	5°14	26° 9	26°52	14°23	20°13	W 2
T 3	22 47 39	10°10'39	13 8 24	25°30	17°35	24°26	24°26	6° 9	13°21	29°16	5°15	26°10	26°49	14°30	20°15	T 3
F 4	22 51 35	11° 8'56	27°10	27°14	18°49	25° 5	24°22	6° 5	13°23	29°17	5°15	26°11	26°46	14°36	20°17	F 4
S 5	22 55 32	12° 7'15	10 II 31	29° 0	20° 2	25°44	24°18	6° 1	13°25	29°18	5°R15	26°R11	26°43	14°43	20°19	S 5
S 6	22 59 28	13° 5'36	23°30	0 m 48	21°16	26°23	24°14	5°57	13°27	29°18	5°15	26°11	26°40	14°50	20°21	S 6
M 7	23 3 25	14° 3'59	699 9	2°38	22°29	27° 2	24°10	5°53	13°29	29°19	5°15	26°10	26°36	14°56	20°23	M 7
T 8	23 7 21	15° 2'24	18°31	4°30	23°43	27°41	24° 5	5°48	13°32	29°20	5°14	26° 9	26°33	15° 3	20°24	T 8
W 9	23 11 18	16° 0'51	0 Ω 41	6°22	24°57	28°20	24° 0	5°44	13°34	29°21	5°14	26° 7	26°30	15° 9	20°26	W 9
T 10	23 15 14	16°59'20	12°41	8°15	26°11	28°59	23°55	5°40	13°37	29°22	5°14	26° 6	26°27	15°16	20°27	T 10
F 11	23 19 11	17°57'52	24°34	10°8	27°25	29°38	23°50	5°35	13°39	29°23	5°14	26° 5	26°24	15°23	20°29	F 11
S 12	23 23 8	18°56'25	6Mp23	12° 1	28°39	0 ჲ 17	23°45	5°31	13°42	29°24	5°14	26° 4	26°20	15°29	20°30	S 12
S 13	23 27 4	19°55'00	18°10	13°54	29°53	0°56	23°40	5°27	13°44	29°25	5°14	26° 4	26°17	15°36	20°32	S 13
M14	23 31 1	20°53'37	29°58	15°46	1 Mp 7	1°35	23°34	5°22	13°47	29°26	5°14	26°D 4	26°14	15°43	20°33	M14
T 15	23 34 57	21°52'16	11 ≏ 48	17°39	2°21	2°14	23°28	5°18	13°49	29°27	5°13	26° 4	26°11	15°49	20°34	T 15
W16	23 38 54	22°50'57	23°44	19°30	3°35	2°53	23°22	5°13	13°52	29°28	5°13	26° 4	26° 8	15°56	20°35	W16
T 17	23 42 50	23°49'40	5 M .47	21°21	4°49	3°33	23°16	5° 9	13°55	29°29	5°13	26° 4	26° 5	16° 3	20°36	T 17
F 18	23 46 47	24°48'25	18° 1	23°12	6° 3	4°12	23°10	5° 4	13°57	29°31	5°13	26° 5	26° 1	16° 9	20°37	F 18
S 19	23 50 43	25°47'11	0 ∡ 129	25° 1	7°17	4°51	23° 4	5° 0	14° 0	29°32	5°12	26°R 5	25°58	16°16	20°38	S 19
S 20	23 54 40	26°45'59	13°13	26°50	8°32	5°31	22°57	4°55	14° 3	29°33	5°12	26° 5	25°55	16°23	20°38	S 20
M21	23 58 37	27°44'49	26°18	28°38	9°46	6°10	22°51	4°50	14° 6	29°34	5°12	26°D 5	25°52	16°29	20°39	M21
T 22	0 2 33	28°43'41	9 ප 46	0 ჲ 24	11° 0	6°50	22°44	4°46	14° 9	29°36	5°11	26° 5	25°49	16°36	20°40	T 22
W23	0 6 30	29°42'35	23°38	2°10	12°15	7°29	22°37	4°41	14°11	29°37	5°11	26° 5	25°46	16°43	20°40	W23
T 24	0 10 26	0 ჲ 41'30	7≈55	3°56	13°29	8° 9	22°30	4°36	14°14	29°38	5°11	26° 5	25°42	16°49	20°41	T 24
F 25	0 14 23	1°40'27	22°35	5°40	14°44	8°48	22°23	4°32	14°17	29°40	5°10	26° 6	25°39	16°56	20°41	F 25
S 26	0 18 19	2°39'25	7 ∺ 32	7°23	15°58	9°28	22°16	4°27	14°20	29°41	5°10	26° 6	25°36	17° 2	20°41	S 26
S 27	0 22 16	3°38'26	22°40	9° 6	17°13	10° 7	22° 9	4°22	14°23	29°42	5° 9	26°R 6	25°33	17° 9	20°42	S 27
M28	0 26 12	4°37'29	7 Ƴ 49	10°47	18°27	10°47	22° 2	4°17	14°26	29°44	5° 9	26° 6	25°30	17°16	20°42	M28
T 29	0 30 9	5°36'33	22°51	12°28	19°42	11°27	21°54	4°13	14°29	29°45	5° 8	26° 6	25°26	17°22	20°R42	T 29
W30	0 34 5	6 ₽ 35'40	7 8 37	14 ♀ 8	20 Mp 56	12 ♀ 6	21 Y 47	4 Υ 8	14MJ33	29 M 47	5 I 8	26Mp 5	25 Mp 23	17 m 29	20 Ⅱ 42	W30

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl d	ecl decl lat
T 1 W 2 T 3	8n30 8 8 7 46	4n13 1s41 8 30 2 53 12 11 3 53		3 16 43 0 48	3n29 0n49 3 13 0 49 2 57 0 48	8n 6 1s32 8 5 1 33 8 3 1 33		15 s32	18 25 1 39	9n49 11 s34 9 49 11 35 9 49 11 35		1 15 5	17n56 5s12 8 17 55 5 13 6 17 55 5 13
F 4 S 5		15 3 4 37 17 2 5 5	13 50 1 2	8 16 2 0 52	2 41 0 48 2 26 0 48	8 1 1 33 8 0 1 33	0s 1 2 39 0 3 2 39	15 34 0 20	18 26 1 39	9 48 11 35 9 48 11 35 9 48 11 35	1 31 1	1 10 3 1 17 5 1 19 5	4 17 55 5 14 2 17 54 5 14
S 6 M 7 T 8		18 3 5 17 18 8 5 12 17 21 4 53	12 9 1 4	2 14 57 0 58	2 10 0 47 1 54 0 47 1 38 0 46	7 58 1 33 7 56 1 34 7 54 1 34	0 4 2 39 0 6 2 39 0 8 2 40	15 36 0 20	18 26 1 39	9 48 11 35 9 48 11 36 9 47 11 36	1 31 1 1 32 1 1 32 1	1 20 5 1 21 4 1 22 4	1 17 54 5 15 59 17 54 5 15 57 17 53 5 16
W 9 T 10 F 11	5 9	15 47 4 21 13 32 3 38 10 45 2 46	10 51 1 4 10 10 1 4 9 28 1 4	9 13 49 1 4	1 22 0 46 1 6 0 45 0 50 0 45	7 52 1 34 7 50 1 34 7 48 1 34	0 12 2 40	15 38 0 20 15 38 0 20 15 39 0 20	18 27 1 38	9 47 11 36 9 47 11 36 9 47 11 37	1 33 1	1 25 4	55 17 53 5 16 54 17 52 5 17 52 17 52 5 17
S 12 S 13 M14	4 23 4 0 3 37	7 32 1 47 4 1 0 44 0 21 0n22	8 45 1 4 8 0 1 4 7 15 1 4	8 12 36 1 9	0 34 0 44 0 18 0 44 0 2 0 43	7 46 1 34 7 44 1 35 7 42 1 35		15 40 0 20 15 41 0 20 15 41 0 20	18 28 1 38	9 47 11 37 9 46 11 37 9 46 11 37	1 34 1	1 29 4	50 17 52 5 18 48 17 51 5 18 47 17 51 5 19
T 15 W16 T 17 F 18	3 14 2 51 2 27	3 s 2 1	6 29 1 4 5 43 1 4 4 57 1 3 4 10 1 3	2 11 21 1 13 9 10 55 1 15	0 s 1 4 0 4 3 0 3 0 0 4 2 0 4 6 0 4 2 1 2 0 4 2	7 40 1 35 7 37 1 35 7 35 1 35 7 33 1 35	0 21 2 40 0 23 2 41 0 25 2 41 0 26 2 41	15 43 0 20 15 44 0 20	18 29 1 38 18 29 1 38	9 46 11 37 9 46 11 38 9 45 11 38 9 45 11 38	1 34 1 1 34 1	1 32 4 1 34 4	45 17 50 5 19 43 17 50 5 20 41 17 49 5 20 39 17 49 5 21
S 19 S 20	1 41	15 36 4 47 17 18 5 10	3 22 1 3 2 35 1 2	1 10 3 1 17 7 9 36 1 19	1 18 0 41 1 34 0 41	7 30 1 36 7 28 1 36	0 28 2 41 0 30 2 41	15 46 0 19 15 46 0 19	18 30 1 38 18 30 1 38	9 45 11 38 9 45 11 38	1 34 1 1 34 1	1 36 4 1 38 4	38 17 48 5 21 36 17 48 5 22
M21 T 22 W23	0 30 0 7	18 8 5 18 17 59 5 9 16 46 4 42	1 1 1 1 1 1 0 14 1 13	7 8 42 1 21 2 8 14 1 22	1 50 0 40 2 6 0 40 2 23 0 39	7 25 1 36 7 23 1 36 7 20 1 36	0 32 2 41 0 34 2 41 0 36 2 41	15 48 0 19 15 49 0 19	18 31 1 38 18 31 1 38	9 44 11 39 9 44 11 39 9 44 11 39	1 34 1		32 17 47 5 23 31 17 46 5 24
T 24 F 25 S 26	0 s17 0 40 1 3	14 30 3 57 11 14 2 56 7 11 1 42		6 7 47 1 23 0 7 19 1 24 4 6 50 1 24	2 39 0 39 2 55 0 38 3 11 0 38	7 17 1 36 7 15 1 36 7 12 1 36	0 38 2 41 0 40 2 41 0 42 2 41	15 51 0 19		9 44 11 39 9 43 11 39 9 43 11 39	1 33 1	1 44 4	29 17 46 5 24 27 17 45 5 25 25 17 45 5 25
S 27 M28 T 29 W30	1 27 1 50 2 14 2 s37	2 38 0 19 2n 7 1s 5 6 41 2 23 10n45 3s31	2 53 0 4 3 38 0 4 4 24 0 3 5s 9 0n2	2 5 53 1 26 5 5 25 1 26	3 27 0 37 3 43 0 37 3 59 0 36 4 s15 0n36		0 44 2 41 0 45 2 41 0 47 2 41 0 849 2 841	15 54 0 19 15 55 0 19		9 43 11 40 9 43 11 40 9 42 11 40 9n42 11 s40	1 33 1 1 33 1	1 48 4 1 49 4	23 17 44 5 26 22 17 44 5 26 20 17 43 5 27 n18 17n43 5 s27

 $\label{eq:Julian Day Number = 2321396.5, Delta T = 47.76 sec} \\ Ecliptic obliquity = 23°28'59, Nutation = -0°00'00, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 19°46'00, Lahiri = 18°53'01Greg. Calendar \\ \\$

OCTOBER 1643 GC 00:00 UT

Day	Sid.t	0	D	ğ	Ω	ď	4	ħ)∤(¥	Р	R	Ω	Ç	ķ	Day
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T 1 F 2	0 38 2 0 41 59	7 Ω 34'49 8°34'00	22 8 0 5 II 57	15 Ω 47 17°25	22 Mp 11 23°26	12 ≙ 46 13°26	21°R39 21 Υ 31	4°R 3 3 Υ 59	14MJ36 14°39	29M48 29°50	5°R 7 5 Ⅱ 7	26°R 3 26 m 2	25 m/20 25°17	17 m)36 17°42	20°R42 20 ∏ 41	T 1 F 2
F 2 S 3	0 41 59	9°33'14	3щ37 19°27	17°23	23°26 24°40	13°26 14° 6	21 1 31 21°24	3°54	14°39	29°51	5° 6	26° 1	25°17 25°14	17°42 17°49	20m41 20°41	F 2 S 3
5 3	0 45 55	9-33-14	19-27	19. 3	24-40	14 0	21-24	3-34	14-42	29-31	3. 0	20 1	25-14	1/-49	20-41	5 3
S 4	0 49 52	10°32'30	2930	20°40	25°55	14°46	21°16	3°49	14°45	29°53	5° 6	26° 0	25°11	17°56	20°41	S 4
M 5	0 53 48	11°31'49	15°10	22°16	27°10	15°26	21° 8	3°45	14°49	29°55	5° 5	26°D 0	25° 7	18° 2	20°40	M 5
T 6	0 57 45	12°31'09	27°30	23°51	28°25	16° 6	21° 0	3°40	14°52	29°56	5° 4	26° 0	25° 4	18° 9	20°40	T 6
W 7	1 141	13°30'32	9 Ω 35	25°25	29°39	16°46	20°52	3°36	14°55	29°58	5° 4	26° 1	25° 1	18°16	20°39	W 7
T 8	1 5 38	14°29'58	21°30	26°59	0 ჲ 54	17°26	20°44	3°31	14°58	29°59	5° 3	26° 3	24°58	18°22	20°39	T 8
F 9	1 9 34	15°29'25	3 Mp 19	28°32	2° 9	18° 6	20°36	3°26	15° 2	0 才 1	5° 2	26° 5	24°55	18°29	20°38	F 9
S 10	1 13 31	16°28'55	15° 6	0 M 5	3°24	18°46	20°28	3°22	15° 5	0° 3	5° 2	26° 6	24°51	18°35	20°37	S 10
S 11	1 17 28	17°28'27	26°54	1°37	4°39	19°26	20°20	3°17	15° 9	0° 5	5° 1	26°R 6	24°48	18°42	20°36	S 11
M12	1 21 24	18°28'01	8 ≏ 46	3° 8	5°54	20° 7	20°12	3°13	15°12	0° 7	5° 0	26° 5	24°45	18°49	20°35	M12
T 13	1 25 21	19°27'37	20°44	4°38	7° 9	20°47	20° 3	3°8	15°15	0° 8	5° 0	26° 4	24°42	18°55	20°34	T 13
W14	1 29 17	20°27'15	2 M .50	6° 8	8°24	21°27	19°55	3° 4	15°19	0°10	4°59	26° 1	24°39	19° 2	20°33	W14
T 15	1 33 14	21°26'55	15° 7	7°37	9°39	22° 8	19°47	3° 0	15°22	0°12	4°58	25°57	24°36	19° 9	20°32	T 15
F 16	1 37 10	22°26'37	27°34	9° 6	10°54	22°48	19°39	2°55	15°26	0°14	4°57	25°52	24°32	19°15	20°30	F 16
S 17	1 41 7	23°26'21	10 × 14	10°34	12° 9	23°28	19°31	2°51	15°29	0°16	4°56	25°48	24°29	19°22	20°29	S 17
S 18	1 45 3	24°26'07	23° 7	12° 1	13°24	24° 9	19°23	2°47	15°33	0°18	4°56	25°44	24°26	19°29	20°28	S 18
M19	1 49 0	25°25'54	6ਰ16	13°27	14°39	24°49	19°15	2°43	15°36	0°20	4°55	25°41	24°23	19°35	20°26	M19
T 20	1 52 57	26°25'44	19°41	14°53	15°55	25°30	19° 7	2°39	15°40	0°22	4°54	25°40	24°20	19°42	20°24	T 20
W21	1 56 53	27°25'35	3≈25	16°18	17°10	26°11	18°59	2°35	15°44	0°24	4°53	25°D40	24°17	19°49	20°23	W21
T 22	2 0 50	28°25'27	17°26	17°42	18°25	26°51	18°51	2°31	15°47	0°26	4°52	25°41	24°13	19°55	20°21	T 22
F 23	2 4 46	29°25'21	1) 46	19° 6	19°40	27°32	18°43	2°27	15°51	0°28	4°51	25°42	24°10	20° 2	20°19	F 23
S 24	2 8 43	0ML25'17	16°22	20°28	20°55	28°13	18°35	2°23	15°54	0°30	4°50	25°43	24° 7	20° 8	20°17	S 24
S 25	2 12 39	1°25'14	1 Υ 9	21°50	22°10	28°53	18°28	2°19	15°58	0°32	4°50	25°R43	24° 4	20°15	20°15	S 25
M26	2 16 36	2°25'13	16° 3	23°10	23°26	29°34	18°20	2°15	16° 2	0°34	4°49	25°42	24° 1	20°22	20°13	M26
T 27	2 20 32	3°25'14	0854	24°30	24°41	0ML15	18°12	2°12	16° 5	0°36	4°48	25°39	23°57	20°28	20°11	T 27
W28	2 24 29	4°25'17	15°36	25°48	25°56	0°56	18° 5	2° 8	16° 9	0°38	4°47	25°34	23°54	20°35	20° 9	W28
T 29	2 28 26	5°25'22	0耳 1	27° 5	27°11	1°37	17°57	2° 4	16°13	0°40	4°46	25°27	23°51	20°42	20° 7	T 29
F 30	2 32 22	6°25'29	14° 2	28°21	28°27	2°18	17°50	2° 1	16°16	0°42	4°45	25°21	23°48	20°48	20° 5	F 30
S 31	2 36 19	7 M 25'38	27 II 37	29 M 35	29 ≏ 42	2 M 59	17 Y 43	1 Y 58	16ML20	0 ∡ 744	4∏44	25 m 14	23 Mp 45	20 m 55	20耳 2	S 31

Day	0	D	3		φ		ď	7	2	ł	ħ	<u> </u>);	ł((Р	n	u	Ç	Ŗ	
	decl	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl la	at
T 1 F 2 S 3	3 s 1 3 24 3 48	14n 4 4s2 16 27 4 5 17 50 5 1	6 37	0 15	4n27 3 57 3 28	1n27 1 28 1 28	4 s31 4 47 5 3	0n35 0 35 0 34	6n58 6 55 6 52	1 s37 1 37 1 37	0 s 5 1 0 5 3 0 5 5	2 41	15 s56 15 57 15 58	0 19		1n37 1 37 1 37	9n42 11 s40 9 42 11 41 9 41 11 41	1n34 1 35 1 35	1n51 1 53 1 54	4 14	17 42	5 s28 5 28 5 29
S 4 M 5 T 6 W 7 T 8 F 9		16 16 4 3 14 11 3 5 11 31 3	0 8 46	0s 5 0 12 0 19 0 26	2 59 2 29 1 59 1 30 1 0 0 30	1 29 1 29 1 29 1 29	5 19 5 34 5 50 6 6 6 22 6 38	0 34 0 33 0 33 0 32 0 32 0 31	6 49 6 46 6 43 6 40 6 37 6 34	1 37 1 37 1 37 1 37 1 37 1 37	0 57 0 58 1 0 1 2 1 4 1 6	2 41 2 41 2 41 2 41 2 41 2 41	16 0 16 1 16 2 16 3	0 19 0 19 0 19 0 19	18 35 18 36	1 37 1 37 1 37 1 37 1 37 1 37	9 41 11 41 9 41 11 41 9 41 11 41 9 40 11 41 9 40 11 42 9 40 11 42	1 36 1 36 1 35 1 35 1 34 1 34	1 55 1 56 1 58 1 59 2 0 2 2	4 9 4 7 4 6 4 4	17 40 17 40 17 39 17 39	5 29 5 30 5 30 5 31 5 31 5 32
S 10 S 11 M12 T 13 W14	6 29 6 52 7 15 7 38 8 0	4 57 1 1 18 0n 2 s 2 5 1 6 4 2 1	1 12 9 4 12 48 9 13 25	0 40 0 47 0 54 1 1	0 30 0 30 1 0 1 30 2 0	1 28 1 28	6 54 7 9 7 25 7 41 7 56	0 31 0 30 0 30 0 29 0 29	6 31 6 28 6 25 6 22 6 19	1 37 1 37 1 37 1 37 1 37 1 37	1 7 1 9 1 11 1 13 1 14	2 41	16 5 16 6 16 7 16 8	0 19 0 19 0 19 0 19	18 37 18 38 18 38 18 38	1 37 1 37 1 37 1 37 1 37 1 37	9 40 11 42 9 39 11 42 9 39 11 42 9 39 11 42 9 38 11 42	1 33 1 33 1 33 1 34 1 35	2 3 2 4 2 5 2 7 2 8	4 0 3 58 3 57 3 55	17 37 17 37 17 36 17 36	5 32 5 33 5 33 5 34 5 34
T 15 F 16 S 17	8 23 8 45	12 36 3 5 15 10 4 3 17 2 5	58 15 15 36 15 50 2 16 24	1 14 1 21 1 27	2 30 3 0 3 30 4 0	1 27 1 26 1 26 1 25	8 12 8 27 8 43 8 58	0 28 0 28 0 27 0 27	6 16 6 13 6 10 6 7	1 37 1 37 1 37 1 36	1 16 1 17 1 19	2 41 2 41 2 41	16 10	0 19 0 19 0 19	18 39 18 40 18 40	1 37 1 37 1 37 1 37	9 38 11 43 9 38 11 43 9 38 11 43 9 37 11 43	1 37 1 39 1 40 1 42	2 9 2 10 2 12 2 13	3 51 3 49 3 48	17 35 17 34 17 33	5 35 5 35 5 36 5 36
M19 T 20 W21 T 22 F 23 S 24	9 51 10 13 10 35 10 56 11 17 11 38	17 19 4 4 15 24 4 12 33 3 1	8 17 29 17 18 1 8 18 31 14 19 1 7 19 29 51 19 57	1 45 1 51 1 57 2 2	4 30 4 59 5 29 5 58 6 28 6 57		9 14 9 29 9 44 9 59 10 15 10 30	0 26 0 26 0 25 0 24 0 24 0 23	6 4 6 1 5 58 5 55 5 52 5 49	1 36 1 36 1 36 1 36 1 36 1 36	1 22 1 24 1 25 1 27 1 28 1 30	2 40 2 40 2 40	16 14 16 15 16 17 16 18 16 19 16 20	0 19 0 19 0 19 0 19	18 41 18 42 18 42 18 43	1 37 1 37 1 37 1 36 1 36 1 36	9 37 11 43 9 37 11 43 9 37 11 43 9 36 11 43 9 36 11 44 9 36 11 44	1 43 1 44 1 44 1 43 1 43 1 42	2 14 2 15 2 17 2 18 2 19 2 20	3 40 3 39 3 37	17 32 17 31 17 30 17 30	5 37 5 37 5 38 5 38 5 39 5 39
S 25 M26 T 27 W28 T 29 F 30 S 31	-	4 39 1 4 9 0 3 12 44 3 5 15 37 4 4 17 29 5	30 20 23 49 20 49 0 21 13 58 21 36 40 21 58 4 22 19 10 22s38	2 17 2 22 2 26 2 29 2 33	7 26 7 55 8 24 8 53 9 21 9 49 10s17	1 18 1 17 1 16 1 15 1 13 1 12 1n11	11 0 11 14 11 29 11 44 11 59	0 23 0 22 0 22 0 21 0 21 0 20 0n20	5 46 5 44 5 41 5 38 5 35 5 33 5n30	1 36 1 36 1 35 1 35 1 35 1 35 1 35	1 31 1 32 1 34 1 35 1 36 1 38 1 s39	2 40 2 39 2 39 2 39 2 39	-	0 19 0 19 0 19 0 19	18 44 18 45 18 45 18 45	1 36 1 36 1 36 1 36 1 36 1 36 1 36	9 36 11 44 9 35 11 44 9 35 11 44 9 35 11 44 9 35 11 44 9 34 11 44 9n34 11 s44	1 42 1 43 1 44 1 46 1 49 1 51 1n54	2 22 2 23 2 24 2 26 2 27 2 28 2n29	3 31 3 30 3 28 3 26 3 24	17 28 17 27 17 27 17 26 17 26	5 40 5 40 5 41 5 41 5 42 5 42 5 842

Julian Day Number = 2321426.5, Delta T = 47.70 sec Ecliptic obliquity = $23^{\circ}28'59$, Nutation = - $0^{\circ}00'02$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}46'04$, Lahiri = $18^{\circ}53'05$ Greg. Calendar

NOVEMBER 1643 GC 00:00 UT

HOTE	HIDEN 3	LUTS UC													00.0	0 0.
Day	Sid.t	0	D	ğ	·	ð	4	ħ)∤(¥	Р	V	v	Ç	Ŷ,	Day
S 1	2 40 15	8M25'49	109546	0 ∡ 747	0 M 57	3 M .40	17°R36	1°R54	16M24	0 ∡ 746	4°R43	25°R 9	23 m/42	21 Mp 2	20°R 0	S 1
M 2	2 44 12	9°26'02	23°30	1°58	2°13	4°21	17 Y 29	1 Y 51	16°27	0°48	4 ∏ 42	25 Mp 6	23°38	21° 8	19 Ⅱ 57	M 2
T 3	2 48 8	10°26'17	5 Ω 52	3° 6	3°28	5° 2	17°22	1°48	16°31	0°50	4°41	25°D 5	23°35	21°15	19°55	T 3
W 4	2 52 5	11°26'34	17°58	4°12	4°43	5°43	17°15	1°45	16°35	0°53	4°40	25° 5	23°32	21°22	19°52	W 4
T 5	2 56 1	12°26'53	29°52	5°16	5°59	6°25	17° 9	1°42	16°39	0°55	4°39	25° 6	23°29	21°28	19°50	T 5
F 6	2 59 58	13°27'14	11 m 40	6°16	7°14	7° 6	17° 2	1°39	16°42	0°57	4°38	25° 7	23°26	21°35	19°47	F 6
S 7	3 3 55	14°27'37	23°27	7°13	8°29	7°47	16°56	1°36	16°46	0°59	4°37	25°R 8	23°23	21°42	19°44	S 7
S 8	3 7 51	15°28'01	5 ₽ 17	8° 6	9°45	8°29	16°49	1°33	16°50	1° 1	4°36	25° 7	23°19	21°48	19°41	S 8
M 9	3 11 48	16°28'28	17°14	8°55	11° 0	9°10	16°43	1°31	16°54	1° 3	4°34	25° 5	23°16	21°55	19°38	M 9
T 10	3 15 44	17°28'56	29°22	9°39	12°16	9°52	16°37	1°28	16°57	1° 6	4°33	25° 0	23°13	22° 1	19°35	T 10
W11	3 19 41	18°29'26	11 M .42	10°17	13°31	10°33	16°32	1°26	17° 1	1° 8	4°32	24°52	23°10	22° 8	19°32	W11
T 12	3 23 37	19°29'58	24°16	10°50	14°46	11°15	16°26	1°23	17° 5	1°10	4°31	24°43	23° 7	22°15	19°29	T 12
F 13	3 27 34	20°30'31	7 . ₹ 3	11°16	16° 2	11°56	16°21	1°21	17° 8	1°12	4°30	24°32	23° 3	22°21	19°26	F 13
S 14	3 31 30	21°31'06	20° 3	11°34	17°17	12°38	16°15	1°19	17°12	1°15	4°29	24°22	23° 0	22°28	19°23	S 14
S 15	3 35 27	22°31'42	3 ਰ 15	11°44	18°33	13°20	16°10	1°17	17°16	1°17	4°28	24°12	22°57	22°35	19°20	S 15
M16	3 39 23	23°32'20	16°39	11°R45	19°48	14° 1	16° 5	1°15	17°20	1°19	4°27	24° 5	22°54	22°41	19°17	M16
T 17	3 43 20	24°32'58	0≈14	11°37	21° 4	14°43	16° 0	1°13	17°23	1°21	4°26	23°59	22°51	22°48	19°13	T 17
W18	3 47 17	25°33'38	13°59	11°18	22°19	15°25	15°56	1°11	17°27	1°23	4°25	23°57	22°48	22°55	19°10	W18
T 19	3 51 13	26°34'19	27°54	10°48	23°35	16° 7	15°52	1°10	17°31	1°26	4°23	23°D56	22°44	23° 1	19° 7	T 19
F 20	3 55 10	27°35'01	11 米 59	10° 8	24°50	16°49	15°47	1° 8	17°34	1°28	4°22	23°57	22°41	23° 8	19° 3	F 20
S 21	3 59 6	28°35'44	26°14	9°17	26° 5	17°31	15°43	1° 7	17°38	1°30	4°21	23°R57	22°38	23°15	19° 0	S 21
S 22	4 3 3	29°36'28	10 Y 36	8°16	27°21	18°12	15°39	1° 5	17°42	1°33	4°20	23°56	22°35	23°21	18°56	S 22
M23	4 6 59	0 ∡ 37'13	25° 3	7° 7	28°36	18°54	15°36	1° 4	17°45	1°35	4°19	23°52	22°32	23°28	18°53	M23
T 24	4 10 56	1°37'59	9 8 31	5°51	29°52	19°37	15°32	1° 3	17°49	1°37	4°18	23°46	22°28	23°34	18°49	T 24
W25	4 14 52	2°38'46	23°53	4°30	1 √ 7	20°19	15°29	1° 2	17°53	1°39	4°17	23°37	22°25	23°41	18°46	W25
T 26	4 18 49	3°39'35	8 I I 3	3° 7	2°23	21° 1	15°26	1° 1	17°56	1°42	4°15	23°26	22°22	23°48	18°42	T 26
F 27	4 22 46	4°40'24	21°56	1°46	3°38	21°43	15°23	1° 0	18° 0	1°44	4°14	23°14	22°19	23°54	18°38	F 27
S 28	4 26 42	5°41'15	5927	0°27	4°54	22°25	15°20	0°59	18° 4	1°46	4°13	23° 3	22°16	24° 1	18°35	S 28
S 29	4 30 39	6°42'08	18°36	29 M 15	6° 9	23° 8	15°18	0°59	18° 7	1°48	4°12	22°52	22°13	24° 8	18°31	S 29
M30	4 34 35	7 .₹ 43'01	1 A 21	28 M .11	7 . ₹25	23M50	15 Y 16	0 Υ 58	18 M .11	1 ₹ 51	4 Ⅱ 11	22 Mp 45	22 Mg 9	24 Mp 14	18 Ⅱ 27	M30

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M23	20 19	7 16 2	2 38 2	21 25	0n 7	19 28	0 26	17 22	0 6	4 47	1 29	1 56	2 34	16 52	0 19	18 57	1 36	9 29 11 45	2 26	2 58	2 41	17 12	5 51
T 24	20 32	11 15 3	3 37 2	20 52	0 28	19 46	0 24	17 35	0 6	4 45	1 29	1 56	2 34	16 53	0 19	18 57	1 36	9 29 11 45	2 29	2 59	2 39	17 11	5 51
W25	20 44	14 32 4	1 23	20 18	0 48	20 4	0 22	17 46	0 5	4 44	1 29	1 56	2 34	16 54	0 19	18 58	1 36	9 29 11 45	2 32	3 1	2 37	17 10	5 51
T 26	20 55	16 54 4	1 51	19 43	1 8	20 22	0 19	17 58	0 5	4 44	1 29	1 57	2 34	16 55	0 19	18 58	1 36	9 29 11 45	2 37	3 2	2 35	17 10	5 51
F 27	21 7	18 13 5	5 2	19 8	1 26	20 39	0 17	18 10	0 4	4 43	1 28	1 57	2 33	16 56	0 19	18 59	1 36	9 28 11 45	2 41	3 3	2 33	17 9	5 52
S 28	21 18	18 27 4	1 55	18 36	1 44	20 55	0 14	18 21	0 3	4 42	1 28	1 57	2 33	16 57	0 19	18 59	1 36	9 28 11 45	2 46	3 5	2 32	17 9	5 52
S 29	21 28	17 41 4	1 33	18 6	1 59	21 11	0 12	18 33	0 3	4 41	1 28	1 57	2 33	16 58	0 19	19 0	1 36	9 28 11 45	2 50	3 6	2 30	17 8	5 52
M30	21 s38	16n 3 3	3 s57	17s39	2n12	21 s26	0n10	18 s44	0n 2	4n41	1 s27	1 s57	2 s33	16 s59	0n19	19s 0	1n36	9n28 11s45	2n53	3n 7	2n28	17n 8	5 s52

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T 1	4 38 32	8 ∡ 143'56	13 N 45	27°R17	8 ₮ 40	24M32	15°R14	0°R58	18 M .14	1 ₹ 53	4°R10	22°R39	22 Mp 6	24 Mp 21	18°R24	T 1
W 2	4 42 28	9°44'52	25°52	26M34	9°56	25°15	15 Y 12	0 Υ 58	18°18	1°55	4 I I 9	22 m 37	22° 3	24°28	18Ⅲ20	W 2
T 3	4 46 25	10°45'49	7 m 48	26° 2	11°11	25°57	15°10	0°57	18°21	1°57	4° 7	22°D36	22° 0	24°34	18°16	T 3
F 4	4 50 22	11°46'47	19°36	25°41	12°27	26°40	15° 9	0°D57	18°25	2° 0	4° 6	22°R36	21°57	24°41	18°12	F 4
S 5	4 54 18	12°47'46	1 ≏ 24	25°D32	13°42	27°22	15° 7	0°57	18°28	2° 2	4° 5	22°36	21°54	24°48	18° 8	S 5
S 6	4 58 15	13°48'47	13°15	25°33	14°58	28° 5	15° 6	0°57	18°32	2° 4	4° 4	22°34	21°50	24°54	18° 5	S 6
M 7	5 2 11	14°49'49	25°16	25°44	16°13	28°47	15° 6	0°58	18°35	2° 6	4° 3	22°30	21°47	25° 1	18° 1	M 7
T 8	5 6 8	15°50'51	7 M 31	26° 4	17°29	29°30	15° 5	0°58	18°39	2° 8	4° 2	22°24	21°44	25° 7	17°57	T 8
W 9	5 10 4	16°51'55	20° 2	26°32	18°44	0 ∡ 13	15° 5	0°59	18°42	2°11	4° 1	22°14	21°41	25°14	17°53	W 9
T 10	5 14 1	17°53'00	2 7 52	27° 7	20° 0	0°56	15°D 4	0°59	18°46	2°13	4° 0	22° 2	21°38	25°21	17°49	T 10
F 11	5 17 57	18°54'05	15°59	27°49	21°15	1°38	15° 4	1° 0	18°49	2°15	3°58	21°48	21°34	25°27	17°46	F 11
S 12	5 21 54	19°55'11	29°23	28°37	22°31	2°21	15° 5	1° 1	18°52	2°17	3°57	21°35	21°31	25°34	17°42	S 12
S 13	5 25 51	20°56'18	13る 1	29°30	23°46	3° 4	15° 5	1° 2	18°56	2°19	3°56	21°22	21°28	25°41	17°38	S 13
M14	5 29 47	21°57'25	26°50	0 х 27	25° 2	3°47	15° 6	1° 3	18°59	2°22	3°55	21°12	21°25	25°47	17°34	M14
T 15	5 33 44	22°58'33	10≈46	1°28	26°17	4°30	15° 7	1° 4	19° 2	2°24	3°54	21° 5	21°22	25°54	17°30	T 15
W16	5 37 40	23°59'40	24°47	2°33	27°33	5°13	15° 8	1° 5	19° 5	2°26	3°53	21° 0	21°19	26° 1	17°26	W16
T 17	5 41 37	25° 0'48	8 ∺ 50	3°41	28°48	5°56	15° 9	1° 6	19° 9	2°28	3°52	20°59	21°15	26° 7	17°23	T 17
F 18	5 45 33	26° 1'56	22°54	4°51	0중 4	6°39	15°10	1° 8	19°12	2°30	3°51	20°59	21°12	26°14	17°19	F 18
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S 20	5 53 26	28° 4'12	21° 3	7°19	2°35	8° 6	15°14	1°11	19°18	2°34	3°49	20°57	21° 6	26°27	17°11	S 20
M21	5 57 23	29° 5'21	5 8 6	8°36	3°50	8°49	15°16	1°13	19°21	2°36	3°48	20°53	21° 3	26°34	17° 8	M21
T 22	6 1 20	0중 6'29	19° 6	9°54	5° 6	9°32	15°18	1°15	19°24	2°38	3°47	20°46	21° 0	26°41	17° 4	T 22
W23	6 5 16	1° 7'37	3 I 0	11°14	6°21	10°15	15°21	1°17	19°27	2°41	3°46	20°36	20°56	26°47	17° 0	W23
T 24	6 9 13	2° 8'46	16°45	12°35	7°37	10°59	15°24	1°19	19°30	2°43	3°45	20°25	20°53	26°54	16°56	T 24
F 25	6 13 9	3° 9'54	09୍ତୀ6	13°57	8°52	11°42	15°27	1°21	19°33	2°45	3°44	20°12	20°50	27° 0	16°53	F 25
S 26	6 17 6	4°11'03	13°32	15°20	10° 7	12°26	15°30	1°23	19°36	2°47	3°43	19°59	20°47	27° 7	16°49	S 26
S 27	6 21 2	5°12'12	26°30	16°44	11°23	13° 9	15°33	1°26	19°39	2°49	3°42	19°48	20°44	27°14	16°46	S 27
M28	6 24 59	6°13'21	9Ω9	18° 9	12°38	13°53	15°37	1°28	19°42	2°51	3°41	19°39	20°40	27°20	16°42	M28
T 29	6 28 55	7°14'30	21°31	19°35	13°54	14°36	15°40	1°31	19°45	2°52	3°40	19°32	20°37	27°27	16°39	T 29
W30	6 32 52	8°15'39	3 m 37	21° 1	15° 9	15°20	15°44	1°33	19°48	2°54	3°39	19°29	20°34	27°34	16°35	W30
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Julian Day Number = 2321487.5, Delta T = 47.58 sec Ecliptic obliquity = $23^{\circ}28'58$, Nutation = - $0^{\circ}00'03$, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = $19^{\circ}46'13$, Lahiri = $18^{\circ}53'13$ Greg. Calendar