

# Astrodienst Ephemeris Tables for the year 2119

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 2119 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)ţ(	并	В	S.	S	Ç	ķ	Day
S 1	6 40 35	9 <b>ප</b> 58'40	24₽46	8ට 3	4≈ 1	16°R47	10°R22	29°R38	9°R43	28₽33	20°R40	11°R59	13 <b>)</b> (30	5 <b>Ⅱ</b> 18	27 <b>)</b> (36	S 1
M 2	6 44 32	10°59'47	7 <b>m</b> 31	9°39	5°16	169523	10821	29 <b>8</b> 35	99540	28°34	20839	11°D57	13°26	5°24	27°37	M 2
T 3	6 48 28	12° 0'55	20°31	11°15	6°31	15°59	10°21	29°32	9°38	28°35	20°39	11 <b>) (</b> 57	13°23	5°31	27°38	T 3
W 4	6 52 25	13° 2'04	3 <b>≏</b> 48	12°51	7°45	15°35	10°20	29°29	9°35	28°36	20°38	11°58	13°20	5°38	27°40	W 4
T 5	6 56 21	14° 3'13	17°24	14°28	9° 0	15°11	10°D20	29°26	9°33	28°37	20°38	11°R58	13°17	5°45	27°41	T 5
F 6	7 0 18	15° 4'22	1 <b>M</b> 22	16° 5	10°15	14°47	10°20	29°23	9°30	28°38	20°37	11°57	13°14	5°51	27°43	F 6
S 7	7 4 14	16° 5'32	15°41	17°42	11°29	14°24	10°21	29°21	9°27	28°39	20°36	11°53	13°11	5°58	27°44	S 7
S 8	7 8 1 1	17° 6'42	0 <b>∡</b> 19	19°20	12°44	14° 0	10°21	29°18	9°25	28°39	20°36	11°48	13° 7	6° 5	27°46	S 8
M 9	7 12 8	18° 7'52	15°12	20°58	13°59	13°36	10°22	29°16	9°22	28°40	20°35	11°40	13° 4	6°11	27°47	M 9
T 10	7 16 4	19° 9'02	0 <b>궁</b> 11	22°37	15°13	13°13	10°23	29°14	9°20	28°41	20°35	11°31	13° 1	6°18	27°49	T 10
W11	7 20 1	20°10'12	15° 8	24°16	16°28	12°50	10°24	29°11	9°17	28°42	20°34	11°23	12°58	6°25	27°51	W11
T 12	7 23 57	21°11'22	29°54	25°55	17°43	12°27	10°25	29° 9	9°15	28°42	20°34	11°16	12°55	6°32	27°53	T 12
F 13	7 27 54	22°12'32	14≈20	27°34	18°57	12° 5	10°27	29° 7	9°12	28°43	20°33	11°10	12°51	6°38	27°55	F 13
S 14	7 31 50	23°13'41	28°20	29°15	20°12	11°43	10°29	29° 5	9°10	28°43	20°33	11° 8	12°48	6°45	27°57	S 14
S 15	7 35 47	24°14'50	11 <b>) (</b> 54	0≈55	21°26	11°22	10°31	29° 4	9° 7	28°44	20°32	11°D 7	12°45	6°52	27°59	S 15
M16	7 39 43	25°15'58	25° 1	2°36	22°41	11° 1	10°33	29° 2	9° 5	28°44	20°32	11° 7	12°42	6°59	28° 1	M16
T 17	7 43 40	26°17'05	7 <b>Υ</b> 44	4°17	23°55	10°40	10°35	29° 0	9° 2	28°45	20°32	11° 9	12°39	7° 5	28° 3	T 17
W18	7 47 37	27°18'12	20° 7	5°58	25° 9	10°21	10°38	28°59	9° 0	28°45	20°31	11°10	12°36	7°12	28° 5	W18
T 19	7 51 33	28°19'18	2814	7°39	26°24	10° 1	10°41	28°58	8°58	28°46	20°31	11°R10	12°32	7°19	28° 7	T 19
F 20	7 55 30	29°20'23	14°11	9°21	27°38	9°43	10°44	28°56	8°55	28°46	20°31	11° 9	12°29	7°25	28° 9	F 20
S 21	7 59 26	0≈21'28	26° 4	11° 2	28°52	9°25	10°47	28°55	8°53	28°46	20°30	11° 6	12°26	7°32	28°11	S 21
S 22	8 3 23	1°22'31	7 <b>Ⅱ</b> 55	12°43	0 <b>∺</b> 7	9° 7	10°50	28°54	8°50	28°47	20°30	11° 0	12°23	7°39	28°14	S 22
M23	8 7 19	2°23'34	19°49	14°25	1°21	8°51	10°54	28°54	8°48	28°47	20°30	10°54	12°20	7°46	28°16	M23
T 24	8 11 16	3°24'37	1950	16° 5	2°35	8°35	10°58	28°53	8°46	28°47	20°30	10°47	12°17	7°52	28°18	T 24
W25	8 15 13	4°25'38	13°59	17°46	3°49	8°20	11° 2	28°52	8°44	28°47	20°29	10°40	12°13	7°59	28°21	W25
T 26	8 19 9	5°26'39	26°18	19°25	5° 3	8° 5	11° 6	28°52	8°41	28°48	20°29	10°33	12°10	8° 6	28°23	T 26
F 27	8 23 6	6°27'38	8 <b>Ω</b> 49	21° 3	6°17	7°52	11°10	28°51	8°39	28°48	20°29	10°28	12° 7	8°12	28°26	F 27
S 28	8 27 2	7°28'37	21°30	22°40	7°32	7°39	11°15	28°51	8°37	28°48	20°29	10°25	12° 4	8°19	28°28	S 28
S 29	8 30 59	8°29'35	4 Mp 24	24°16	8°46	7°27	11°19	28°51	8°35	28°48	20°29	10°D23	12° 1	8°26	28°31	S 29
M30	8 34 55	9°30'33	17°29	25°49	9°59	7°16	11°24	28°D50	8°33	28°R48	20°29	10°23	11°57	8°33	28°33	M30
T 31	8 38 52	10≈31'29	0 <b>ჲ</b> 47	27≈19	11 <b>米</b> 13	7 <b>9</b> 5	11829	28 <b>8</b> 50	8931	28 <b>≏</b> 48	20828	10 <b>∺</b> 25	11 <b>米</b> 54	8 <b>Ⅱ</b> 39	28 <b>米</b> 36	T 31

Day	0	D	ğ	·	♂	4	ħ	)Å(	并	Р	ß	ນ ţ	ķ
	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	_	9 7 0 24 3 3 0s46 3s15 1 54 9 34 2 58 15 34 3 53	24 43 1 24 39 1 24 34 1 24 28 1 24 20 1	38 20 31 1 38 43 20 13 1 38 46 19 55 1 39 50 19 36 1 39 53 19 16 1 40	26 17 3 50 26 21 3 52 26 25 3 53 26 29 3 54	13 50 1 8 13 51 1 7	18     0     2     6       17     59     2     6       17     59     2     6       17     58     2     6       17     58     2     5	23 25 0 21	9 s 2 4 1 n 4 0 9 2 4 1 4 0 9 2 4 1 4 0 9 2 4 1 4 0 9 2 5 1 4 1 9 2 5 1 4 1 9 2 5 1 4 1	3n14 15s12 3 14 15 11 3 14 15 11 3 14 15 11 3 14 15 11 3 14 15 10 3 14 15 10	7s 4 7 5 7 4 7 4 7 4 7 5 7 6	6 s29 26n11 6 30 26 12 6 32 26 14 6 33 26 15 6 34 26 16 6 35 26 18 6 36 26 19	2n12 3n26 2 12 3 26 2 13 3 26 2 13 3 26 2 13 3 25 2 14 3 25 2 14 3 25
S 8 M 9 T 10 W11 T 12 F 13	22 20 22 12	25 5 4 59 27 39 5 5 28 15 4 50 26 47 4 15 23 28 3 23 18 44 2 19	23 59 1 23 47 2 23 33 2 23 18 2	59 18 35 1 40 1 18 14 1 41	26 36 3 56 26 40 3 57 26 43 3 58 26 46 3 58 26 49 3 59 26 51 3 59	13 52 1 7 13 52 1 6	17 57 2 5 17 57 2 5 17 57 2 4 17 57 2 4 17 57 2 4 17 57 2 4 17 56 2 4	23 26 0 21 23 27 0 21	9 25 1 41 9 26 1 41	3 14 15 10 3 14 15 9 3 15 15 9 3 15 15 9 3 15 15 9 3 15 15 8 3 15 15 8	7 8 7 11 7 14 7 18 7 20 7 22 7 23	6 38 26 20 6 39 26 22 6 40 26 23 6 41 26 24 6 43 26 25 6 44 26 27 6 45 26 28	2 14 3 25 2 15 3 24 2 15 3 24 2 16 3 24 2 16 3 24 2 17 3 23 2 17 3 23
M16 T 17 W18 T 19 F 20		20 29 4 36	21 37 2 21 13 2 20 46 2 20 19 2 19 50 2	5 15 6 1 39 4 14 41 1 39 2 14 15 1 38	26 58 4 0 26 59 4 0 27 1 4 0 27 2 4 0 27 3 4 0	13 58 1 4 13 59 1 4 14 0 1 4 14 1 1 3 14 2 1 3	17     56     2     3       17     56     2     2       17     56     2     2       17     56     2     2       17     56     2     2       17     56     2     2	23 28 0 21 23 28 0 21	9 26 1 41 9 27 1 41	3 16 15 8 3 16 15 7 3 16 15 7 3 16 15 7 3 16 15 6 3 17 15 6 3 17 15 6	7 24 7 23 7 23 7 22 7 22 7 22 7 23 7 24	6 46 26 29 6 47 26 30 6 49 26 32 6 50 26 33 6 51 26 34 6 52 26 35 6 53 26 37	2 18 3 23 2 19 3 23 2 19 3 23 2 20 3 22 2 20 3 22 2 21 3 22 2 22 3 22
S 22 M23 T 24 W25 T 26 F 27 S 28	19 37 19 23 19 9 18 54 18 39	28 7 5 6 28 14 4 49 26 59 4 19 24 26 3 37	18 14 1 17 39 1 17 3 1 16 26 1 15 48 1	53 12 56 1 36 48 12 28 1 35 43 12 1 1 34 38 11 33 1 33 31 11 5 1 32 24 10 37 1 31 16 10 8 1 30	27 6 3 59 27 6 3 58 27 7 3 57 27 7 3 57 27 7 3 56	14 6 1 2 14 7 1 2	17 56 2 1 17 56 2 1 17 56 2 0 17 56 2 0 17 57 2 0	23 29 0 21 23 30 0 21 23 30 0 21	9 27 1 42 9 27 1 42	3 17 15 5 3 17 15 5 3 18 15 5 3 18 15 5 3 18 15 4 3 18 15 4 3 19 15 4	7 26 7 28 7 31 7 34 7 36 7 38 7 40	6 55 26 38 6 56 26 39 6 57 26 40 6 58 26 41 7 0 26 43 7 1 26 44 7 2 26 45	2 23 3 21 2 23 3 21 2 24 3 21 2 25 3 21 2 26 3 21 2 26 3 20 2 27 3 20
	18 8 17 52 17 s35	4 21 0s39	14 30 1 13 49 0 13 s 9 0 s	8 9 39 1 29 58 9 10 1 27 s48 8 s40 1 s26	<b>27 7 3 53</b>	14 17 1 0	17 57 1 59	23 30 0 21 23 30 0 21 23n30 0n21	9 27 1 42 9 27 1 42 9 s27 1 n42	3 19 15 3 3 19 15 3 3n20 15s 3	7 40 7 40 7 s40	7 3 26 46 7 4 26 47 7s 6 26n48	2 28 3 20 2 29 3 20 2n30 3n20

Julian Day Number = 2495008.5, Delta T = 102.72 sec Ecliptic obliquity = 23°25'34, Nutation = 0°00'05, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'11$ , Lahiri =  $25^{\circ}31'11$ 

FEBRUARY 2119 00:00 UT

Day	Sid.t	0	D	ğ	Q	ð	4	ħ	)/(	¥	Р	ß	Ω	Ç	Ŷ,	Day
W 1	8 42 48	11≈32'25	14 <b>♀</b> 17	28≈47	12 <b>)</b> 27	6°R55	11835	28 <b>8</b> 51	8°R29	28°R48	20°R28	10 <b>)</b> (26	11 <b>米</b> 51	8 <b>II</b> 46	28 <b>米</b> 39	W 1
T 2	8 46 45	12°33'21	28° 0	0 <b>₩</b> 10	13°41	69346	11°40	28°51	89527	28 <u>₽</u> 48	20828	10°28	11°48	8°53	28°41	T 2
F 3	8 50 41	13°34'15	11 <b>M</b> 56	1°30	14°55	6°38	11°46	28°51	8°25	28°48	20°28	10°R28	11°45	9° 0	28°44	F 3
S 4	8 54 38	14°35'09	26° 4	2°44	16° 9	6°31	11°51	28°52	8°23	28°47	20°D28	10°28	11°42	9° 6	28°47	S 4
S 5	8 58 35	15°36'03	10 <b>×</b> 24	3°52	17°22	6°25	11°57	28°52	8°21	28°47	20°28	10°26	11°38	9°13	28°50	S 5
M 6	9 2 31	16°36'55	24°51	4°54	18°36	6°19	12° 3	28°53	8°19	28°47	20°28	10°24	11°35	9°20	28°53	M 6
T 7	9 6 28	17°37'47	9 <b>궁</b> 22	5°49	19°49	6°14	12°10	28°54	8°17	28°47	20°28	10°20	11°32	9°26	28°56	T 7
W 8	9 10 24	18°38'38	23°51	6°35	21° 3	6°10	12°16	28°55	8°15	28°47	20°29	10°17	11°29	9°33	28°59	W 8
T 9	9 14 21	19°39'28	8≈12	7°12	22°16	6° 7	12°23	28°56	8°13	28°46	20°29	10°14	11°26	9°40	29° 1	T 9
F 10	9 18 17	20°40'16	22°19	7°40	23°30	6° 4	12°29	28°57	8°12	28°46	20°29	10°12	11°23	9°47	29° 4	F 10
S 11	9 22 14	21°41'03	6 <b>∺</b> 8	7°58	24°43	6° 2	12°36	28°58	8°10	28°45	20°29	10°D12	11°19	9°53	29° 8	S 11
S 12	9 26 11	22°41'49	19°37	8°R 5	25°57	6° 1	12°43	29° 0	8°8	28°45	20°29	10°12	11°16	10° 0	29°11	S 12
M13	9 30 7	23°42'34	2 <b>Υ</b> 43	8° 1	27°10	6°D 1	12°51	29° 1	8° 7	28°45	20°29	10°13	11°13	10° 7	29°14	M13
T 14	9 34 4	24°43'16	15°29	7°47	28°23	6° 2	12°58	29° 3	8° 5	28°44	20°30	10°14	11°10	10°14	29°17	T 14
W15	9 38 0	25°43'58	27°55	7°22	29°36	6° 3	13° 6	29° 4	8° 4	28°44	20°30	10°15	11° 7	10°20	29°20	W15
T 16	9 41 57	26°44'38	10 <b>8</b> 7	6°47	0 <b>Υ</b> 49	6° 5	13°13	29° 6	8° 2	28°43	20°30	10°17	11° 3	10°27	29°23	T 16
F 17	9 45 53	27°45'16	22° 7	6° 3	2° 2	6° 8	13°21	29° 8	8° 1	28°43	20°30	10°17	11° 0	10°34	29°26	F 17
S 18	9 49 50	28°45'52	4 <b>Ⅱ</b> 1	5°11	3°15	6°11	13°29	29°10	7°59	28°42	20°31	10°R17	10°57	10°40	29°29	S 18
S 19	9 53 46	29°46'27	15°53	4°13	4°28	6°16	13°37	29°12	7°58	28°41	20°31	10°17	10°54	10°47	29°33	S 19
M20	9 57 43	0 <b>)(</b> 47'00	27°49	3°10	5°41	6°20	13°46	29°14	7°57	28°41	20°31	10°16	10°51	10°54	29°36	M20
T 21	10 1 40	1°47'31	9951	2° 3	6°54	6°26	13°54	29°17	7°56	28°40	20°32	10°14	10°48	11° 1	29°39	T 21
W22	10 5 36	2°48'01	22° 5	0°56	8° 6	6°32	14° 3	29°19	7°54	28°39	20°32	10°13	10°44	11° 7	29°43	W22
T 23	10 9 33	3°48'29	4 <b>Ω</b> 32	29≈48	9°19	6°39	14°11	29°22	7°53	28°38	20°32	10°12	10°41	11°14	29°46	T 23
F 24	10 13 29	4°48'55	17°15	28°43	10°31	6°47	14°20	29°25	7°52	28°38	20°33	10°12	10°38	11°21	29°49	F 24
S 25	10 17 26	5°49'19	0 <b>m</b> )15	27°41	11°44	6°55	14°29	29°27	7°51	28°37	20°33	10°11	10°35	11°27	29°53	S 25
S 26	10 21 22	6°49'42	13°30	26°44	12°56	7° 4	14°38	29°30	7°50	28°36	20°34	10°D11	10°32	11°34	29°56	S 26
M27	10 25 19	7°50'03	27° 1	25°52	14° 8	7°13	14°48	29°33	7°49	28°35	20°34	10°11	10°28	11°41	29°59	M27
T 28	10 29 15	8 <b>¥</b> 50'22	10 <b>≏</b> 46	25≈ 7	15 <b>Y</b> 20	<b>79</b> 23	14857	29 <b>8</b> 36	79548	28 <b>≏</b> 34	20835	10 <b>米</b> 12	10 <b>∺</b> 25	11 <b>II</b> 48	0 <b>Υ</b> 3	T 28

Day	0	Ž		ζ	5	ç	?	ď	7	2	ļ	ħ	l	) <sub>į</sub>	(	Ä	ħ	Е	)	n	Ω	Ç	ķ	
	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	17 s19	8 s 1 9	2 s 5 5	12 s28	0s37	8s11	1 s24	27n 6	3n51	14n21	1 s 0	17n58	1 s58	23n30	0n21	9 s27	1n42	3n20	15 s 2	7 s39	7s 7	26n49	2n31 3n	19
T 2	17 2	14 21	3 52	11 48	0 25	7 41	1 23	27 5	3 50	14 23	0 59	17 58	1 58	23 30	0 21	9 27	1 42	3 20	15 2	7 38	7 8	26 51	2 32 3	19
F 3	16 44	19 46	4 36	11 7	0 12	7 11	1 21	27 4	3 49	14 25	0 59	17 59	1 58	23 30	0 21	9 27	1 42	3 20	15 2	7 38	7 9	26 52	2 32 3	19
S 4	16 27	24 11	5 4	10 28	0n 2	6 41	1 19	27 4	3 48	14 27	0 59	17 59	1 58	23 31	0 21	9 27	1 42	3 21	15 1	7 38	7 10	26 53	2 33 3	19
S 5	16 9	27 10	5 14	9 50	0 16	6 10	1 17	27 3	3 47	14 29	0 59	17 59	1 57	23 31	0 21	9 26	1 42	3 21	15 1	7 39	7 12	26 54	2 34 3	19
M 6	15 51	28 23	5 4	9 14	0 31	5 40	1 15	27 2	3 46	14 31	0 58	18 0	1 57	23 31	0 21	9 26	1 42	3 21	15 1	7 40	7 13	26 55	2 35 3	18
T 7	15 32	27 40	4 35	8 39	0 46	5 9	1 13	27 1	3 44	14 33	0 58	18 0	1 57	23 31	0 21	9 26	1 43	3 22	15 0	7 41	7 14	26 56	2 36 3	18
W 8	15 14	25 4	3 48	8 7	1 3	4 38	1 11	27 0	3 43	14 35	0 58	18 1	1 56	23 31	0 21	9 26	1 43	3 22	15 0	7 42	7 15	26 57	2 37 3	18
T 9	14 55	20 54	2 47	7 38	1 19	4 7	1 9	26 58	3 42	14 38	0 58	18 1	1 56	23 31	0 21	9 26	1 43	3 23	15 0	7 44	7 16	26 58	2 38 3	18
F 10	14 36	15 36	1 37	7 12	1 36	3 36	1 7	26 57	3 40	14 40	0 57	18 2	1 56	23 31	0 21	9 26	1 43	3 23	14 59	7 44	7 18	26 59	2 39 3	18
S 11	14 16	9 36	0 22	6 50	1 52	3 5	1 4	26 56	3 39	14 42	0 57	18 2	1 56	23 31	0 21	9 26	1 43	3 23	14 59	7 45	7 19	27 0	2 40 3	18
S 12	13 57	3 19	0n52	6 33	2 9	2 34	1 2	26 55	3 37	14 45	0 57	18 3	1 55	23 31	0 21	9 25	1 43	3 24	14 59	7 44	7 20	27 1	2 41 3	17
M13	13 37	2n56	2 1	6 19	2 25	2 2	1 0	26 53	3 36	14 47	0 57	18 3	1 55	23 32	0 21	9 25	1 43	3 24	14 58	7 44	7 21	27 2	2 43 3	17
T 14	13 16	8 54	3 3	6 10	2 40	1 31	0 57	26 52	3 35	14 50	0 56	18 4	1 55	23 32	0 21	9 25	1 43	3 24	14 58	7 44	7 23	27 3	2 44 3	17
W15	12 56	14 22	3 54	6 6	2 54	1 0	0 55	26 50	3 33	14 52	0 56	18 5	1 54	23 32	0 21	9 25	1 43	3 25	14 57	7 43	7 24	27 5	2 45 3	17
T 16	12 36	19 10	4 34	6 7	3 7	0 28	0 52	26 49	3 32	14 55	0 56	18 5	1 54	23 32	0 21	9 24	1 43	3 25	14 57	7 43	7 25	27 6	2 46 3	17
F 17	12 15	23 7	5 1	6 13	3 18	0n 3	0 49	26 47	3 30	14 57	0 56	18 6	1 54	23 32	0 21	9 24	1 43	3 26	14 57	7 42	7 26	27 7	2 47 3	17
S 18	11 54	26 5	5 14	6 23	3 27	0 35	0 47	26 45	3 29	15 0	0 55	18 7	1 54	23 32	0 21	9 24	1 43	3 26	14 57	7 42	7 27	27 8	2 48 3	16
S 19	11 33	27 54	5 15	6 37	3 35	1 6	0 44	26 44	3 27	15 3	0 55	18 7	1 53	23 32	0 21	9 24	1 43	3 26	14 56	7 43	7 29	27 9	2 49 3	16
M20	11 11	28 26	5 2	6 55	3 40	1 38	0 41	26 42	3 26	15 5	0 55	18 8	1 53	23 32	0 21	9 23	1 43	3 27	14 56	7 43	7 30	27 10	2 50 3	16
T 21	10 50	27 38	4 35	7 16	3 43	2 9	0 38	26 40	3 24	15 8	0 55	18 9	1 53	23 32	0 21	9 23	1 43	3 27	14 56	7 43	7 31	27 10	2 52 3	16
W22	10 28	25 30	3 56	7 40	3 43	2 41	0 35	26 39	3 23	15 11	0 54	18 10	1 53	23 32	0 21	9 23	1 43	3 28	14 55	7 44	7 32	27 11	2 53 3	16
T 23	10 6	22 6	3 5	8 5	3 41	3 12	0 32	26 37	3 21	15 14	0 54	18 11	1 52	23 32	0 21	9 22	1 43	3 28	14 55	7 44	7 33	27 12	2 54 3	16
F 24	9 44	17 37	2 4	8 31	3 37	3 43	0 29	26 35	3 20	15 16	0 54	18 11	1 52	23 32	0 21	9 22	1 43	3 28	14 55	7 44	7 35	27 13	2 55 3	16
S 25	9 22	12 14	0 55	8 58	3 31	4 14	0 26	26 33	3 18	15 19	0 54	18 12	1 52	23 32	0 21	9 22	1 44	3 29	14 54	7 45	7 36	27 14	2 56 3	15
S 26	9 0	6 12	0s18	9 24	3 23	4 45	0 23	26 31	3 17	15 22	0 53	18 13	1 51	23 32	0 21	9 21	1 44	3 29	14 54	7 45	7 37	27 15	2 58 3	15
M27	8 38	0s13	1 32	9 50	3 14	5 16	0 19	26 29	3 15	15 25	0 53	18 14	1 51	23 33	0 21	9 21	1 44	3 30	14 54	7 45	7 38	27 16	2 59 3	15
T 28	8 s 1 5	6 s44	2 s42	10s15	3n 4	5n47	0s16	26n27	3n14	15n28	0 s53	18n15	1 s 5 1	23n33	0n21	9s21	1n44	3n30	14 s53	7 s45	7 s 3 9	27n17	3n 0 3n	15

Julian Day Number = 2495039.5, Delta T = 102.77 sec Ecliptic obliquity =  $23^{\circ}25'34$ , Nutation =  $0^{\circ}00'06$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'15$ , Lahiri =  $25^{\circ}31'15$ 

MARCH 2119 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)ұ(	并	В	ß	Ω	Ç	Š	Day
W 1	10 33 12	9 <b>米</b> 50'40	24 <u>₽</u> 41	24°R29	16 <b>Y</b> 32	7933	15 <b>8</b> 6	29 <b>8</b> 39	7°R47	28°R33	20 <b>8</b> 35	10°R12	10 <b>¥</b> 22	11 <b>Ⅱ</b> 54	0 <b>Υ</b> 6	W 1
T 2	10 37 8	10°50'56	8 <b>M</b> .45	23≈58	17°44	7°44	15°16	29°43	79547	28 <b>≏</b> 32	20°36	10 <b>米</b> 12	10°19	12° 1	0°10	T 2
F 3	10 41 5	11°51'11	22°53	23°33	18°56	7°56	15°26	29°46	7°46	28°31	20°36	10°12	10°16	12° 8	0°13	F 3
S 4	10 45 2	12°51'25	7 <b>₹</b> 5	23°17	20° 8	8° 8	15°36	29°49	7°45	28°30	20°37	10°D12	10°13	12°15	0°17	S 4
S 5	10 48 58	13°51'37	21°18	23° 7	21°20	8°21	15°46	29°53	7°44	28°29	20°38	10°12	10° 9	12°21	0°20	S 5
M 6	10 52 55	14°51'48	5 <b>云</b> 28	23°D 3	22°31	8°34	15°56	29°57	7°44	28°28	20°38	10°12	10° 6	12°28	0°24	M 6
T 7	10 56 51	15°51'57	19°34	23° 7	23°43	8°47	16° 6	0 II 0	7°43	28°27	20°39	10°12	10° 3	12°35	0°27	T 7
W 8	11 048	16°52'05	3≈34	23°16	24°54	9° 2	16°16	0° 4	7°43	28°26	20°40	10°13	10° 0	12°41	0°31	W 8
T 9	11 4 44	17°52'11	17°25	23°32	26° 6	9°16	16°26	0° 8	7°42	28°25	20°40	10°13	9°57	12°48	0°34	T 9
F 10	11 841	18°52'15	1 <b>∺</b> 5	23°52	27°17	9°31	16°37	0°12	7°42	28°24	20°41	10°14	9°54	12°55	0°38	F 10
S 11	11 12 38	19°52'18	14°31	24°18	28°28	9°47	16°48	0°16	7°42	28°23	20°42	10°R14	9°50	13° 2	0°41	S 11
S 12	11 16 34	20°52'18	27°43	24°49	29°39	10° 3	16°58	0°21	7°42	28°21	20°42	10°14	9°47	13° 8	0°45	S 12
M13	11 20 31	21°52'17	10 <b>Y</b> 38	25°24	0 <b>8</b> 50	10°20	17° 9	0°25	7°41	28°20	20°43	10°12	9°44	13°15	0°49	M13
T 14	11 24 27	22°52'14	23°18	26° 3	2° 1	10°36	17°20	0°29	7°41	28°19	20°44	10°11	9°41	13°22	0°52	T 14
W15	11 28 24	23°52'08	5 <b>8</b> 42	26°47	3°12	10°54	17°31	0°34	7°41	28°18	20°45	10° 9	9°38	13°29	0°56	W15
T 16	11 32 20	24°52'01	17°54	27°34	4°22	11°12	17°42	0°38	7°D41	28°16	20°46	10° 7	9°34	13°35	0°59	T 16
F 17	11 36 17	25°51'51	29°55	28°24	5°33	11°30	17°53	0°43	7°41	28°15	20°46	10° 5	9°31	13°42	1° 3	F 17
S 18	11 40 13	26°51'39	11 <b>II</b> 50	29°17	6°43	11°48	18° 5	0°48	7°41	28°14	20°47	10° 3	9°28	13°49	1° 7	S 18
S 19	11 44 10	27°51'25	23°42	0 <b>∺</b> 14	7°53	12° 7	18°16	0°53	7°41	28°12	20°48	10°D 3	9°25	13°55	1°10	S 19
M20	11 48 6	28°51'09	5937	1°13	9° 4	12°27	18°28	0°58	7°41	28°11	20°49	10° 3	9°22	14° 2	1°14	M20
T 21	11 52 3	29°50'51	17°39	2°15	10°13	12°46	18°39	1° 2	7°42	28°10	20°50	10° 4	9°19	14° 9	1°18	T 21
W22	11 56 0	0 <b>Υ</b> 50'30	29°53	3°20	11°23	13° 6	18°51	1° 8	7°42	28° 8	20°51	10° 5	9°15	14°16	1°21	W22
T 23	11 59 56	1°50'07	12 <b>N</b> 22	4°26	12°33	13°27	19° 3	1°13	7°42	28° 7	20°52	10° 7	9°12	14°22	1°25	T 23
F 24	12 3 53	2°49'42	25°11	5°36	13°43	13°48	19°15	1°18	7°43	28° 5	20°53	10° 8	9° 9	14°29	1°28	F 24
S 25	12 7 49	3°49'15	8 Mg 22	6°47	14°52	14° 9	19°26	1°23	7°43	28° 4	20°54	10°R 9	9° 6	14°36	1°32	S 25
S 26	12 11 46	4°48'45	21°55	8° 0	16° 1	14°30	19°38	1°29	7°43	28° 2	20°55	10° 8	9° 3	14°42	1°36	S 26
M27	12 15 42	5°48'13	5 <b>≏</b> 49	9°15	17°10	14°52	19°51	1°34	7°44	28° 1	20°56	10° 6	9° 0	14°49	1°39	M27
T 28	12 19 39	6°47'40	20° 1	10°32	18°19	15°14	20° 3	1°39	7°45	27°59	20°57	10° 4	8°56	14°56	1°43	T 28
W29	12 23 35	7°47'04	4M26	11°51	19°28	15°36	20°15	1°45	7°45	27°58	20°58	10° 0	8°53	15° 3	1°47	W29
T 30	12 27 32	8°46'27	18°58	13°12	20°37	15°59	20°27	1°51	7°46	27°56	20°59	9°56	8°50	15° 9	1°50	T 30
F 31	12 31 29	9 <b>°</b> 45'47	3 <b>₹</b> 31	14 <b>)</b> 34	21845	169522	20840	1耳56	79547	27 <b>≙</b> 55	218 0	9 <b>∺</b> 52	8 <b>) (</b> 47	15 <b>Ⅱ</b> 16	1 <b>Y</b> 54	F 31

Day	0	D	ğ	Q	ď	7	24	ŀ	ħ		) <sub>į</sub>	ξ(	<b>¥</b>		Р	Ŋ	v	Ç	ķ	
	decl	decl lat	decl lat	t decl la	nt decl	lat	decl	lat	decl	lat	decl	lat	decl la	at	decl lat	decl	decl	decl	decl	lat
W 1 T 2 F 3 S 4		18 40 4 31 23 22 5 3	11 1 2 11 21 2	2 39 6 49 2 26 7 19	0s13 26n25 0 10 26 23 0 6 26 20 0 3 26 18	3 11 3 9	15n31 15 34 15 37 15 40	0 s53 0 53 0 52 0 52	18 18	1 50 1 50	23n33 23 33 23 33 23 33	0n21 0 21 0 21 0 21	9 20 9 20	1n44 1 44 1 44 1 44	3n31 14s53 3 31 14 53 3 31 14 52 3 32 14 52	7 45	7 42 7 43	27n18 27 19 27 20 27 21	3n 1 3 3 3 4 3 5	3n15 3 15 3 15 3 15
S 5 M 6 T 7 W 8	6 21 5 58 5 34 5 11	28 19 5 11 28 5 4 47 26 3 4 5	11 56 1 12 10 1 12 22 1	1 59 8 20 1 45 8 50 1 32 9 19	0n 1 26 16 0 4 26 14 0 8 26 11 0 12 26 9	3 6 3 5 3 4	15 43 15 46 15 49	0 52 0 52 0 52 0 51 0 51		1 50	23 33 23 33 23 33	0 21 0 21 0 21	9 19 9 18 9 18	1 44 1 44 1 44 1 44	3 32 14 52 3 33 14 51 3 33 14 51 3 34 14 51		7 45 7 47 7 48	27 22	3 6 3 8 3 9 3 10	3 14 3 14 3 14 3 14
T 9 F 10 S 11	4 48	17 33 2 3 11 52 0 50 5 44 0n24	12 39 1 12 45 0 12 49 0	1 4 10 18 0 51 10 48 0 38 11 16	0 15 26 6 0 19 26 4 0 22 26 1 0 26 25 59	3 1	15 56 15 59 16 2	0 51 0 51 0 51 0 51	18 24 18 25 18 26	1 49 1 48 1 48	23 33	0 21 0 21 0 21	9 17 9 17 9 16	1 44 1 44 1 44 1 44	3 34 14 50 3 35 14 50 3 35 14 50 3 35 14 50	7 44 7 44 7 44	7 50 7 51 7 53		3 12 3 13 3 14 3 16	3 14 3 14 3 14 3 14
M13 T 14 W15 T 16 F 17	1 39	6 40 2 40 12 23 3 36 17 30 4 20 21 50 4 52 25 10 5 11	12 50 (12 48 (12 44 (12 39 (12 31 (1	0 13 12 14 0 1 12 42 0 s10 13 9 0 21 13 37 0 32 14 4	0 30 25 56 0 34 25 53 0 37 25 50 0 41 25 47 0 45 25 45	2 55 2 54 2 52 2 51 2 49	16 9 16 12 16 15 16 18 16 22	0 50 0 50 0 50 0 50 0 49	18 28 18 29 18 31 18 32 18 33	1 48 1 47 1 47 1 47 1 47	23 33 23 33 23 33 23 33 23 33	0 21 0 21 0 21 0 21 0 21	9 15 9 15 9 14 9 14 9 13	1 44 1 44 1 44 1 44 1 44	3 36 14 49 3 36 14 49 3 37 14 49 3 37 14 48 3 38 14 48	7 44 7 45 7 46 7 46 7 47	7 55 7 56 7 57 7 59 8 0	27 28 27 29 27 30 27 31 27 31	3 17 3 18 3 20 3 21 3 22	3 14 3 14 3 14 3 13 3 13
S 18 S 19 M20 T 21 W22 T 23 F 24 S 25	0 51 0 27 0 4 0n20 0 44 1 7 1 31	28 23 5 7 28 3 4 45 26 24 4 10 23 29 3 24 19 26 2 27 14 24 1 21	12 11 (11 59 11 45 11 30 11 13 11 13 11 10 54 11	0 52 14 58 1 1 5 24 1 10 15 50 1 18 16 15 1 26 16 40 1 33 17 5	0 49 25 42 0 53 25 38 0 56 25 35 1 0 25 32 1 4 25 29 1 8 25 25 1 12 25 22 1 16 25 18	2 47 2 45 2 44 2 43 2 41 2 40	16 25 16 28 16 32 16 35 16 38 16 42 16 45 16 49	0 49 0 49 0 49 0 49 0 48 0 48 0 48	18 35 18 37 18 38 18 39 18 40 18 42	1 46 1 46 1 46 1 46 1 45 1 45	23 33 23 33 23 33 23 33	0 21 0 21 0 21 0 21 0 21 0 21 0 21 0 21	9 12 9 12 9 11 9 11 9 10 9 10	1 44 1 45 1 45 1 45 1 45 1 45 1 45 1 45	3 38 14 48 3 39 14 47 3 40 14 47 3 40 14 47 3 41 14 46 3 42 14 46	7 48 7 48 7 48 7 47 7 46 7 46	8 2 8 3 8 4 8 6	27 34 27 35 27 35 27 36 27 37	3 24 3 25 3 27 3 28 3 29 3 31 3 32 3 34	3 13 3 13 3 13 3 13 3 13 3 13 3 13 3 13
S 26 M27 T 28 W29 T 30 F 31	1 55 2 18 2 42 3 5 3 29 3n52	4s24 2 16 10 56 3 21	9 50 1 9 26 1 9 1 2 8 34 2	1 53 18 17 1 58 18 40 2 3 19 3 2 8 19 25	1 19 25 15 1 23 25 11 1 27 25 7 1 31 25 4 1 35 25 0 1n38 24n56	2 36 2 35 2 34 2 32	16 52 16 55 16 59 17 2 17 6 17n 9	0 48 0 48 0 47 0 47 0 47 0 s47	18 44 18 45 18 47 18 48 18 49 18n51	1 44 1 44 1 44	23 33 23 33 23 32	0 21	9 8 9 7 9 7 9 6	1 45 1 45 1 45 1 45 1 45 1 n45	3 42 14 46 3 43 14 46 3 43 14 45 3 43 14 45 3 44 14 45 3n44 14s45	7 46 7 48 7 49 7 51	8 12 8 13 8 14 8 15	27 38 27 39 27 40 27 40 27 41 27n42	3 35 3 36 3 38 3 39 3 40 3n42	3 13 3 13 3 13 3 13 3 13 3 n13

Julian Day Number = 2495067.5, Delta T = 102.81 sec Ecliptic obliquity =  $23^{\circ}25'35$ , Nutation =  $0^{\circ}00'06$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'19$ , Lahiri =  $25^{\circ}31'19$ 

APRIL 2119 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	并	Р	រា	ນ	Ç	ķ	Day
S 1	12 35 25	10 <b>Y</b> 45'07	17 <b>.7</b> 59	15 <b>¥</b> 58	22854	16945	20852	2 <b>I</b> 2	79347	27°R53	218 1	9°R49	8 <b>) (</b> 44	15 <b>Ⅱ</b> 23	1 <b>Y</b> 57	S 1
S 2	12 39 22	11°44'24	2 <b>ਰ</b> 18	17°24	24° 2	17° 8	21° 4	2° 8	7°48	27 <b>≙</b> 52	21° 2	9 <b>)(</b> 47	8°40	15°30	2° 1	S 2
M 3	12 43 18	12°43'40	16°25	18°51	25°10	17°32	21°17	2°14	7°49	27°50	21° 3	9°D47	8°37	15°36	2° 5	M 3
T 4	12 47 15	13°42'53	0≈18	20°20	26°18	17°56	21°30	2°20	7°50	27°49	21° 4	9°47	8°34	15°43	2° 8	T 4
W 5	12 51 11	14°42'06	13°58	21°51	27°26	18°20	21°42	2°26	7°51	27°47	21° 5	9°49	8°31	15°50	2°12	W 5
T 6	12 55 8	15°41'16	27°25	23°23	28°33	18°45	21°55	2°32	7°52	27°45	21° 6	9°50	8°28	15°56	2°15	T 6
F 7	12 59 4	16°40'24	10 <b>米</b> 39	24°56	29°40	19° 9	22° 8	2°38	7°53	27°44	21° 8	9°R51	8°25	16° 3	2°19	F 7
S 8	13 3 1	17°39'31	23°41	26°31	0 <b>Ⅱ</b> 48	19°34	22°21	2°44	7°55	27°42	21° 9	9°50	8°21	16°10	2°22	S 8
S 9	13 6 58	18°38'35	6 <b>Ƴ</b> 31	28° 7	1°55	20° 0	22°34	2°51	7°56	27°41	21°10	9°47	8°18	16°17	2°26	S 9
M10	13 10 54	19°37'38	19° 9	29°45	3° 1	20°25	22°47	2°57	7°57	27°39	21°11	9°42	8°15	16°23	2°29	M10
T 11	13 14 51	20°36'39	1836	1 <b>Y</b> 25	4° 8	20°51	23° 0	3° 4	7°58	27°37	21°12	9°36	8°12	16°30	2°33	T 11
W12	13 18 47	21°35'37	13°53	3° 6	5°14	21°17	23°13	3°10	8° 0	27°36	21°13	9°28	8° 9	16°37	2°36	W12
T 13	13 22 44	22°34'34	25°59	4°48	6°20	21°43	23°26	3°16	8° 1	27°34	21°15	9°20	8° 5	16°43	2°40	T 13
F 14	13 26 40	23°33'28	7 <b>∏</b> 58	6°32	7°26	22° 9	23°39	3°23	8° 3	27°32	21°16	9°12	8° 2	16°50	2°43	F 14
S 15	13 30 37	24°32'20	19°52	8°17	8°32	22°36	23°52	3°30	8° 4	27°31	21°17	9° 6	7°59	16°57	2°47	S 15
S 16	13 34 33	25°31'11	19543	10° 4	9°38	23° 3	24° 6	3°36	8° 6	27°29	21°18	9° 1	7°56	17° 4	2°50	S 16
M17	13 38 30	26°29'58	13°36	11°53	10°43	23°30	24°19	3°43	8° 7	27°28	21°19	8°58	7°53	17°10	2°53	M17
T 18	13 42 27	27°28'44	25°36	13°43	11°48	23°57	24°33	3°50	8° 9	27°26	21°21	8°D57	7°50	17°17	2°57	T 18
W19	13 46 23	28°27'28	$7\Omega47$	15°35	12°53	24°24	24°46	3°57	8°11	27°24	21°22	8°57	7°46	17°24	3° 0	W19
T 20	13 50 20	29°26'09	20°14	17°28	13°57	24°52	24°59	4° 4	8°12	27°23	21°23	8°58	7°43	17°31	3° 4	T 20
F 21	13 54 16	0824'47	3 Mg 2	19°23	15° 1	25°19	25°13	4°10	8°14	27°21	21°25	8°R59	7°40	17°37	3° 7	F 21
S 22	13 58 13	1°23'24	16°15	21°19	16° 5	25°47	25°26	4°17	8°16	27°19	21°26	8°59	7°37	17°44	3°10	S 22
S 23	14 2 9	2°21'59	29°55	23°17	17° 9	26°15	25°40	4°24	8°18	27°18	21°27	8°57	7°34	17°51	3°13	S 23
M24	14 6 6	3°20'31	14 <u>₽</u> 2	25°16	18°12	26°44	25°54	4°31	8°20	27°16	21°28	8°53	7°31	17°57	3°17	M24
T 25	14 10 2	4°19'01	28°32	27°17	19°15	27°12	26° 7	4°38	8°22	27°14	21°30	8°47	7°27	18° 4	3°20	T 25
W26	14 13 59	5°17'30	13 <b>M</b> 21	29°19	20°18	27°40	26°21	4°46	8°24	27°13	21°31	8°39	7°24	18°11	3°23	W26
T 27	14 17 56	6°15'57	28°20	1823	21°21	28° 9	26°35	4°53	8°26	27°11	21°32	8°30	7°21	18°18	3°26	T 27
F 28	14 21 52	7°14'22	13 <b>×</b> 19	3°28	22°23	28°38	26°49	5° 0	8°28	27°10	21°34	8°22	7°18	18°24	3°29	F 28
S 29	14 25 49	8°12'46	28° 9	5°34	23°25	29° 7	27° 2	5° 7	8°30	27° 8	21°35	8°15	7°15	18°31	3°33	S 29
S 30	14 29 45	9811'08	12 <b>る</b> 44	7 <b>8</b> 41	24∏26	29936	27816	5 <b>Ⅱ</b> 14	8932	27 <b>♀</b> 6	21836	8 <b>¥</b> 10	7 <b>)</b> €11	18 <b>Ⅲ</b> 38	3 <b>Y</b> 36	S 30

Day	0	D	ğ	Ş	C	3	2	ł	ħ	1	)į	ξ(	<del>4</del>	Р	ß	U	Ç	Š	;
	decl	decl lat	decl la	at decl lat	t decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl lat	decl	decl	decl	decl	lat
S 1	4n15	28 s 1 5 s 9	9 7s37	2s16 20n 8	In42 24n51	2n30	17n13	0 s47	18n52	1 s43	23n32	0n20	9s 5 1n4	5 3n45 14s44	7 s53	8 s 1 8	27n42	3n43	3n12
S 2			7 6		1 46 24 47		17 16	0 47			23 32	0 20	9 4 1 4	3 45 14 44			27 43	3 45	3 12
M 3	-	26 34 4 1			1 49 24 43		17 19	0 47				0 20	9 4 1 4					3 46	3 12
T 4 W 5					1 53 24 39 1 57 24 34		17 23 17 26	0 46 0 46		1 43 1 43		0 20 0 20	9 3 1 4 9 3 1 4			-	<ul><li>27 44</li><li>27 45</li></ul>	3 47 3 49	3 12 3 12
T 6	6 10			2 27 21 47 2		2 23	17 30	0 46				0 20	9 2 1 4				27 45	3 50	3 12
F 7	6 33			2 27 22 5 2		2 23		0 46				0 20	9 2 1 4			-	27 46	3 52	3 12
S 8	6 56	1 22 1 1:	5 3 38	2 28 22 23 2	2 7 24 20	2 22	17 37	0 46	19 2	1 42	23 32	0 20	9 1 1 4	5 3 48 14 43	7 53		27 47	3 53	3 12
S 9	7 18	4n43 2 20	0 3 0	2 27 22 40 2	2 11 24 15	2 21	17 40	0 46	19 3	1 42	23 32	0 20	9 0 1 4	5 3 49 14 43	7 54	8 27	27 47	3 54	3 12
M10	7 40	10 32 3 1	7 2 20		2 14 24 10	2 19		0 45		1 42	23 32	0 20	9 0 1 4	5 3 49 14 43				3 56	3 12
T 11	8 3	15 50 4			2 17 24 5		17 47	0 45	19 6	1 42		0 20	8 59 1 4			8 29	27 48	3 57	3 12
W12 T 13					2 21 24 0 2 24 23 55		17 50 17 54	0 45 0 45	19 7 19 9	1 41	23 31 23 31	0 20	8 59 1 4			8 31 8 32		3 59 4 0	3 12 3 12
F 14	-				2 24 23 33 2 27 23 49		17 54	0 45		1 41 1 41		0 20 0 20	8 58 1 4 8 57 1 4			8 32 8 33		4 0 4 1	3 12
S 15		-			2 30 23 44	2 14		0 45				0 20	8 57 1 4				27 51	4 3	3 12
S 16	9 52	28 9 4 44	4 1 58	2 12 24 25 2	2 33 23 38	2 13	18 4	0 45	19 13	1 41	23 31	0 20	8 56 1 4	5 3 52 14 42	8 11	8 35	27 51	4 4	3 12
M17	10 13	26 56 4 14	4 2 44	2 8 24 37 2	2 36 23 33	2 12	18 7	0 44	19 14	1 41	23 31	0 20	8 56 1 4	5 3 52 14 4	8 12	8 37	27 52	4 5	3 12
T 18	10 34				2 39 23 27		18 11	0 44	19 16		23 31	0 20	8 55 1 4			8 38		4 7	3 12
W19		20 53 2 40			2 42 23 21		18 14	0 44			23 31	0 20	8 54 1 4		8 12			4 8	3 12
T 20 F 21	-				2 45 23 15 2 48 23 9			0 44			23 31 23 30	0 20	8 54 1 4		8 12 8 12	8 40 8 41		4 9	3 12 3 12
S 22	11 57	4 49 0s39			2 48 23 9 2 50 23 3			0 44 0 44			23 30		8 53 1 4 8 53 1 4		8 12 8 12		27 54	4 11 4 12	3 12
S 23	12 17	1s39 1 50			2 53 22 56	2 5		0 44			23 30		8 52 1 4				27 55	4 13	3 12
M24	12 17	8 14 2 50			2 55 22 50	2 4	18 31	0 44					8 52 1 4			-		4 15	3 12
T 25		14 35 3 53			2 58 22 43		18 34	0 43	-				8 51 1 4			8 46		4 16	3 12
W26	13 17	20 13 4 30	5 10 10	1 8 26 4 3	3 0 22 37	2 2	18 37	0 43	19 27	1 39	23 30	0 20	8 50 1 4	5 3 56 14 40	8 19	8 47	27 56	4 17	3 12
T 27				0 59 26 10 3		2 1	18 41	0 43		1 39			8 50 1 4				27 57	4 19	3 12
F 28	13 55			0 49 26 16 3	_		_	0 43			23 30		8 49 1 4				27 57	4 20	3 12
S 29	14 14	28 11 4 40	5 12 45	0 40 26 22 3	8 6 22 16	1 59	18 47	0 43	19 31	1 39	23 29	0 20	8 49 1 4	5 3 57 14 40	8 28	8 51	27 57	4 21	3 12
S 30	14n33	26 s 59 4 s 1	1 13n36	0s30 26n27 3	3n 8 22n 9	1n58	18n51	0 s43	19n33	1 s39	23n29	0n20	8 s48 1n4	5 3n58 14s40	8 s 3 0	8 s 5 2	27n58	4n22	3n13

Julian Day Number = 2495098.5, Delta T = 102.85 sec Ecliptic obliquity =  $23^{\circ}25'34$ , Nutation =  $0^{\circ}00'06$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'23$ , Lahiri =  $25^{\circ}31'24$ 

MAY 2119 00:00 UT

Day	Sid.t	$\odot$	D	Ϋ́	φ	♂ <sup>™</sup>	4	ħ	)∤(	卉	Р	B	Ω	Ç	ķ	Day
M 1	14 33 42	10 <b>岁</b> 9'28	26 <b>궁</b> 59	9 <b>8</b> 49	25 <b>II</b> 27	0 <b>Ω</b> 6	27 <b>8</b> 30	5 <b>Ⅱ</b> 22	8935	27°R 5	21838	8°R 7	7 <b>)</b> € 8	18 <b>Ⅱ</b> 44	<b>3</b> Υ39	M 1
T 2	14 37 38	11° 7'47	10≈53	11°58	26°28	0°35	27°44	5°29	8°37	27 <b>♀</b> 3	21°39	8°D 6	7° 5	18°51	3°42	T 2
W 3	14 41 35	12° 6'04	24°25	14° 7	27°29	1° 5	27°58	5°36	8°39	27° 2	21°40	8 <b>∺</b> 7	7° 2	18°58	3°45	W 3
T 4	14 45 31	13° 4'20	7 <b>∺</b> 39	16°16	28°29	1°34	28°12	5°44	8°42	27° 0	21°42	8°R 7	6°59	19° 5	3°48	T 4
F 5	14 49 28	14° 2'34	20°36	18°26	29°28	2° 4	28°26	5°51	8°44	26°58	21°43	8° 6	6°56	19°11	3°51	F 5
S 6	14 53 25	15° 0'47	3 <b>Υ</b> 19	20°35	0928	2°34	28°40	5°59	8°46	26°57	21°44	8° 4	6°52	19°18	3°54	S 6
S 7	14 57 21	15°58'58	15°51	22°43	1°26	3° 4	28°53	6° 6	8°49	26°55	21°46	7°58	6°49	19°25	3°56	S 7
M 8	15 1 18	16°57'08	28°13	24°51	2°25	3°35	29° 7	6°13	8°51	26°54	21°47	7°50	6°46	19°32	3°59	M 8
T 9	15 5 14	17°55'16	10827	26°58	3°23	4° 5	29°22	6°21	8°54	26°52	21°48	7°39	6°43	19°38	4° 2	T 9
W10	15 9 11	18°53'22	22°33	29° 3	4°20	4°36	29°36	6°29	8°56	26°51	21°50	7°27	6°40	19°45	4° 5	W10
T 11	15 13 7	19°51'27	4 <b>Ⅱ</b> 33	1 <b>I</b> 6	5°17	5° 6	29°50	6°36	8°59	26°49	21°51	7°14	6°37	19°52	4° 8	T 11
F 12	15 17 4	20°49'30	16°28	3° 8	6°14	5°37	0 <b>Π</b> 4	6°44	9° 2	26°48	21°52	7° 1	6°33	19°58	4°10	F 12
S 13	15 21 0	21°47'32	28°19	5° 7	7°10	6° 8	0°18	6°51	9° 4	26°46	21°54	6°50	6°30	20° 5	4°13	S 13
S 14	15 24 57	22°45'32	109510	7° 4	8° 6	6°39	0°32	6°59	9° 7	26°45	21°55	6°40	6°27	20°12	4°16	S 14
M15	15 28 54	23°43'30	22° 2	8°58	9° 1	7°10	0°46	7° 7	9°10	26°43	21°56	6°34	6°24	20°19	4°18	M15
T 16	15 32 50	24°41'26	4 <b>Ω</b> 1	10°49	9°55	7°42	1° 0	7°14	9°13	26°42	21°58	6°30	6°21	20°25	4°21	T 16
W17	15 36 47	25°39'20	16° 9	12°37	10°49	8°13	1°14	7°22	9°16	26°41	21°59	6°28	6°17	20°32	4°24	W17
T 18	15 40 43	26°37'13	28°33	14°23	11°42	8°44	1°28	7°30	9°18	26°39	22° 1	6°D28	6°14	20°39	4°26	T 18
F 19	15 44 40	27°35'04	11 <b>M</b> )17	16° 5	12°35	9°16	1°42	7°37	9°21	26°38	22° 2	6°R28	6°11	20°45	4°29	F 19
S 20	15 48 36	28°32'53	24°26	17°44	13°27	9°48	1°56	7°45	9°24	26°37	22° 3	6°27	6° 8	20°52	4°31	S 20
S 21	15 52 33	29°30'40	8 <b>₾</b> 3	19°19	14°19	10°20	2°11	7°53	9°27	26°35	22° 5	6°25	6° 5	20°59	4°33	S 21
M22	15 56 29	0∏28'26	22°11	20°52	15° 9	10°51	2°25	8° 0	9°30	26°34	22° 6	6°19	6° 2	21° 6	4°36	M22
T 23	16 0 26	1°26'10	6 <b>M</b> .46	22°20	15°59	11°23	2°39	8° 8	9°33	26°33	22° 7	6°11	5°58	21°12	4°38	T 23
W24	16 4 23	2°23'53	21°44	23°46	16°48	11°55	2°53	8°16	9°36	26°31	22° 9	6° 2	5°55	21°19	4°40	W24
T 25	16 8 19	3°21'34	6 <b>才</b> 57	25° 8	17°37	12°28	3° 7	8°24	9°39	26°30	22°10	5°51	5°52	21°26	4°43	T 25
F 26	16 12 16	4°19'15	2 <u>2</u> °14	26°26	18°24	13° 0	3°21	8°31	9°42	26°29	22°11	5°40	5°49	21°32	4°45	F 26
S 27	16 16 12	5°16'54	7 <b>궁</b> 23	27°41	19°11	13°32	3°35	8°39	9°45	26°28	22°13	5°31	5°46	21°39	4°47	S 27
S 28	16 20 9	6°14'32	22°15	28°52	19°57	14° 5	3°50	8°47	9°49	26°27	22°14	5°24	5°43	21°46	4°49	S 28
M29	16 24 5	7°12'09	6≈44	29°59	20°42	14°37	4° 4	8°55	9°52	26°25	22°15	5°20	5°39	21°53	4°51	M29
T 30	16 28 2	8° 9'45	20°46	199 3	21°26	15°10	4°18	9° 3	9°55	26°24	22°17	5°18	5°36	21°59	4°53	T 30
W31	16 31 58	9Ⅱ 7'20	4 <b>∺</b> 22	299 2	229 9	15 <b>Ω</b> 43	4 <b>Ⅱ</b> 32	9 <b>Ⅱ</b> 10	9 <b>9</b> 58	26 <b>♀</b> 23	22818	5 <b></b> ₩18	5 <b>)</b> 33	22 <b>II</b> 6	<b>4Υ</b> 55	W31

Day	0	D	ğ	·	ď	4	ħ	)∤(	<del>¥</del>	Р	n	v t	ę,
	decl	decl lat	decl la	at decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl	decl decl	decl lat
M 1 T 2	14n51 15 10	24 s 2 3 s 2 1 19 44 2 2 0	-		n10 22n 2 1n5 12 21 54 1 5	7 18n54 0s43 6 18 57 0 43		23n29 0n20 23 29 0 20	8 s 48 1 n 4 5 8 4 7 1 4 5	3n58 14s40 3 59 14 40	8 s31 8 32	8 s 5 3 27 n 5 8 8 5 4 27 5 9	4n24 3n13 4 25 3 13
W 3 T 4	15 28 15 45	-				5 19 0 0 43 4 19 3 0 42		23 29 0 20 23 29 0 20	8 46 1 45 8 46 1 45	3 59 14 40 3 59 14 40	8 31 8 31	8 55 27 59 8 57 27 59	4 26 3 13 4 27 3 13
F 5 S 6	16 3 16 20	2 43 1n 6	17 40	0 23 26 41 3	16 21 32 1 5	3 19 7 0 42 2 19 10 0 42	19 40 1 38	23 28 0 20 23 28 0 20	8 45 1 45 8 45 1 45	4 0 14 40 4 0 14 39	8 32 8 33	8 58 28 0 8 59 28 0	4 29 3 13 4 30 3 13
S 7 M 8	16 37 16 53	9 6 3 6	19 9		18 21 16 1 5 19 21 8 1 5			23 28 0 20 23 28 0 20	8 44 1 45 8 44 1 45	4 1 14 39 4 1 14 39	8 35 8 38	9 0 28 1 9 1 28 1	4 31 3 13 4 32 3 13
T 9 W10	17 26	23 5 4 51		1 13 26 42 3	20 20 52 1 4	0 19 19 0 42 9 19 22 0 42	19 47 1 37	23 28 0 20 23 28 0 20	8 43 1 45 8 43 1 45	4 1 14 39 4 2 14 39	8 42 8 46	9 3 28 1 9 4 28 2	4 33 3 13 4 34 3 13
T 11 F 12 S 13	17 42 17 57 18 12	27 39 4 57	22 16	1 31 26 38 3	21 20 35 1 4		19 50 1 37	23 27 0 20 23 27 0 20 23 27 0 20	8 42 1 45 8 42 1 45 8 41 1 45	4 2 14 39 4 2 14 39 4 3 14 39	8 51 8 56 9 0	9 5 28 2 9 6 28 2 9 7 28 3	4 36 3 13 4 37 3 13 4 38 3 13
S 14 M15 T 16 W17 T 18 F 19	18 27 18 42 18 56 19 10 19 23 19 37	25 7 3 32 21 53 2 43 17 40 1 45 12 38 0 42	23 39 24 2 24 22 24 39	1 53 26 28 3 1 59 26 24 3 2 5 26 19 3 2 9 26 14 3	21 20 9 1 4 21 20 0 1 4 21 19 51 1 4	3 19 41 0 41 2 19 43 0 41 1 19 46 0 41	19 54 1 37 19 55 1 37 19 56 1 37 19 58 1 37		8 41 1 45 8 40 1 45 8 40 1 45 8 39 1 45 8 39 1 45 8 38 1 45	4 3 14 39 4 3 14 39 4 4 14 39 4 4 14 39 4 5 14 39	9 3 9 6 9 7 9 8 9 8 9 8	9 8 28 3 9 10 28 3 9 11 28 4 9 12 28 4 9 13 28 4 9 14 28 4	4 39 3 13 4 40 3 13 4 41 3 13 4 42 3 13 4 43 3 13 4 44 3 14
S 20 S 21 M22 T 23	19 50 20 2 20 14 20 26	5 s 37 2 39 11 58 3 36	25 18 25 26	2 18 25 55 3 2 19 25 48 3			20 2 1 36 20 3 1 36		8 38 1 45 8 37 1 45 8 37 1 45 8 36 1 45	4 5 14 39 4 5 14 39 4 6 14 39 4 6 14 39	9 8 9 9 9 11 9 14	9 15 28 5 9 17 28 5 9 18 28 5 9 19 28 5	4 45 3 14 4 46 3 14 4 47 3 14 4 48 3 14
W24 T 25 F 26 S 27	21 0	26 23 5 0 27 59 4 48	25 38 2 25 38		10 18 35 1 3 8 18 25 1 3	6 20 4 0 41 5 20 6 0 40 5 20 9 0 40 4 20 12 0 40	20 7 1 36 20 8 1 36	23 25 0 20 23 25 0 20 23 24 0 20 23 24 0 20	8 36 1 45 8 36 1 45 8 35 1 45 8 35 1 44	4 6 14 39 4 7 14 39 4 7 14 39 4 7 14 39	9 18 9 22 9 26 9 29	9 20 28 6 9 21 28 6 9 22 28 6 9 24 28 6	4 49 3 14 4 50 3 14 4 51 3 14 4 52 3 14
M29 T 30	21 30	20 55 2 25 15 46 1 16	25 30 25 24		0 17 54 1 3 57 17 44 1 3	2 20 17 0 40 1 20 20 0 40	20 12 1 36 20 13 1 36	23 24 0 20 23 24 0 20 23 23 0 20 23n23 0n20	8 34 1 44 8 34 1 44 8 34 1 44 8 s33 1n44	4 7 14 39 4 8 14 39 4 8 14 39 4n 8 14s39	9 31 9 33 9 34 9 s34	9 25 28 6 9 26 28 7 9 27 28 7 9 s28 28n 7	4 53 3 14 4 54 3 14 4 55 3 14 4n56 3n15

 $\label{eq:Julian Day Number = 2495128.5, Delta T = 102.90 sec} \\ Ecliptic obliquity = 23°25'34, Nutation = 0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°24'27, Lahiri = 25°31'28 \\$ 

JUNE 2119 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	并	В	ស	v	Ç	Ŗ	Day
T 1	16 35 55	10Ⅱ 4'54	17 <b>) (</b> 34	2958	22951	16 <b>Ω</b> 16	4 <b>Ⅱ</b> 46	9 <b>Ⅱ</b> 18	1095 1	26°R22	22819	5°R18	5 <b>₩</b> 30	22 <b>I</b> I3	<b>4</b> Υ57	T 1
F 2	16 39 52	11° 2'27	0 <b>Υ</b> 25	3°50	23°33	16°49	5° 0	9°26	10° 5	26 <b>≏</b> 21	22°20	5 <b>)</b> 17	5°27	22°19	4°59	F 2
S 3	16 43 48	12° 0'00	12°59	4°38	24°13	17°22	5°14	9°34	10° 8	26°20	22°22	5°14	5°23	22°26	5° 1	S 3
S 4	16 47 45	12°57'31	25°20	5°22	24°52	17°55	5°28	9°42	10°11	26°19	22°23	5° 8	5°20	22°33	5° 3	S 4
M 5	16 51 41	13°55'02	7 <b>8</b> 30	6° 1	25°29	18°28	5°42	9°49	10°14	26°18	22°24	5° 0	5°17	22°40	5° 4	M 5
T 6	16 55 38	14°52'32	19°34	6°37	26° 6	19° 1	5°56	9°57	10°18	26°17	22°26	4°49	5°14	22°46	5° 6	T 6
W 7	16 59 34	15°50'01	1 <b>Ⅲ</b> 32	7° 7	26°42	19°34	6°10	10° 5	10°21	26°16	22°27	4°36	5°11	22°53	5° 8	W 7
T 8	17 3 31	16°47'30	13°26	7°34	27°16	20° 8	6°24	10°13	10°25	26°15	22°28	4°23	5° 8	23° 0	5° 9	T 8
F 9	17 7 27	17°44'57	25°18	7°56	27°48	20°41	6°38	10°20	10°28	26°14	22°29	4° 9	5° 4	23° 7	5°11	F 9
S 10	17 11 24	18°42'24	795 9	8°13	28°20	21°15	6°52	10°28	10°31	26°13	22°31	3°57	5° 1	23°13	5°12	S 10
S 11	17 15 21	19°39'49	19° 0	8°26	28°50	21°49	7° 6	10°36	10°35	26°12	22°32	3°48	4°58	23°20	5°14	S 11
M12	17 19 17	20°37'14	$0\Omega55$	8°34	29°18	22°22	7°20	10°44	10°38	26°12	22°33	3°41	4°55	23°27	5°15	M12
T 13	17 23 14	21°34'37	12°56	8°R38	29°45	22°56	7°34	10°51	10°42	26°11	22°34	3°37	4°52	23°33	5°17	T 13
W14	17 27 10	22°32'00	25° 7	8°37	$0\Omega 10$	23°30	7°48	10°59	10°45	26°10	22°36	3°35	4°49	23°40	5°18	W14
T 15	17 31 7	23°29'21	7 <b>m</b> 21	8°32	0°34	24° 4	8° 2	11° 7	10°49	26° 9	22°37	3°D35	4°45	23°47	5°19	T 15
F 16	17 35 3	24°26'42	20°13	8°22	0°56	24°38	8°15	11°14	10°52	26° 9	22°38	3°R35	4°42	23°54	5°21	F 16
S 17	17 39 0	25°24'01	3 <b>≏</b> 18	8° 9	1°16	25°12	8°29	11°22	10°56	26° 8	22°39	3°35	4°39	24° 0	5°22	S 17
S 18	17 42 57	26°21'20	16°49	7°51	1°34	25°46	8°43	11°30	10°59	26° 7	22°40	3°33	4°36	24° 7	5°23	S 18
M19	17 46 53	27°18'38	0 <b>M</b> .49	7°30	1°50	26°21	8°57	11°37	11° 3	26° 7	22°41	3°29	4°33	24°14	5°24	M19
T 20	17 50 50	28°15'55	15°17	7° 5	2° 4	26°55	9°10	11°45	11° 6	26° 6	22°43	3°23	4°29	24°20	5°25	T 20
W21	17 54 46	29°13'11	0 <b>₮</b> 10	6°37	2°17	27°30	9°24	11°52	11°10	26° 6	22°44	3°15	4°26	24°27	5°26	W21
T 22	17 58 43	09510'26	15°21	6° 7	2°27	28° 4	9°38	12° 0	11°13	26° 5	22°45	3° 6	4°23	24°34	5°27	T 22
F 23	18 2 39	1° 7'41	0 <b>궁</b> 40	5°35	2°35	28°39	9°51	12° 7	11°17	26° 5	22°46	2°57	4°20	24°41	5°28	F 23
S 24	18 6 36	2° 4'56	15°55	5° 1	2°40	29°13	10° 5	12°15	11°21	26° 4	22°47	2°50	4°17	24°47	5°29	S 24
S 25	18 10 32	3° 2'10	0≈57	4°27	2°44	29°48	10°18	12°22	11°24	26° 4	22°48	2°44	4°14	24°54	5°29	S 25
M26	18 14 29	3°59'24	15°36	3°52	2°R45	0 <b>m</b> 23	10°32	12°30	11°28	26° 3	22°49	2°41	4°10	25° 1	5°30	M26
T 27	18 18 26	4°56'37	29°48	3°17	2°44	0°57	10°45	12°37	11°31	26° 3	22°50	2°D39	4° 7	25° 7	5°31	T 27
W28	18 22 22	5°53'51	13 <b>) (</b> 32	2°44	2°40	1°32	10°59	12°45	11°35	26° 3	22°51	2°40	4° 4	25°14	5°31	W28
T 29	18 26 19	6°51'04	26°49	2°11	2°35	2° 7	11°12	12°52	11°38	26° 2	22°52	2°41	4° 1	25°21	5°32	T 29
F 30	18 30 15	79548'18	9 <b>Ƴ</b> 42	19541	$2\Omega$ 26	2 <b>m</b> ) 42	11 <b>Ⅱ</b> 25	12 <b>II</b> 59	119542	26 <b>♀</b> 2	22 <b>8</b> 53	2°R41	3 <b>∺</b> 58	25 <b>Ⅱ</b> 28	5 <b>Υ</b> 32	F 30

Day	0	D	1	<b></b>	·	(	3	2	<b>+</b>	ħ	<u> </u>	);	β(	并		Р	ß	v	ţ	ď	
	decl	decl lat	decl	lat	decl lat	decl	lat	decl	lat	decl	lat	decl	lat	decl l	at	decl lat	decl	decl	decl	decl	lat
T 1 F 2 S 3	21n57 22 5 22 13	2n 8 2	25n 8 24 58 24 48	1 36	24 6 2	150 17n23 46 17 12 42 17 1	1 29	20n25 20 28 20 31	0 40	20n16 20 17 20 18	1 35	23n23 23 23 23 22	0 20	8 s 3 3 8 3 3 8 3 2	1n44 1 44 1 44	4n 8 14s3 4 9 14 4 4 9 14 4	0 9 34	9 s29 9 31 9 32		4n57 4 58 4 58	3n15 3 15 3 15
S 4 M 5 T 6 W 7 T 8	22 34 22 40	18 12 4 2 22 15 4 50 25 20 5	24 36 7 24 24 0 24 10 0 23 56 5 23 42	1 6 0 55 0 42	23 32 2 23 20 2 23 8 2	37 16 50 33 16 39 28 16 28 23 16 17 17 16 6	1 26 1 26 1 25	20 33 20 36 20 38 20 41 20 43	0 40 0 40 0 40	20 19 20 20 20 22 20 23 20 24	1 35 1 35 1 35	23 22 23 22 23 22 23 21 23 21	0 20	8 32 8 32 8 31 8 31 8 31	1 44 1 44 1 44 1 44	4 9 14 4 4 9 14 4 4 10 14 4 4 10 14 4 4 10 14 4	0 9 40 0 9 44 0 9 49	9 33 9 34 9 35 9 36 9 38	28 8 28 8 28 8	4 59 5 0 5 1 5 1 5 2	3 15 3 15 3 15 3 15 3 15
F 9 S 10	22 52	28 1 4 4	23 27 2 23 11	0 16		11 15 54	1 23	20 45 20 48	0 39	20 25 20 26	1 35	23 21 23 21	0 20 0 20	8 30 8 30	1 44 1 44	4 10 14 4 4 10 14 4	0 9 59	9 39 9 40	28 8	5 3 5 4	3 15 3 16
	23 6	22 36 2 4 18 38 1 4 13 51 0 4 8 25 0s2 2 32 1 2	5 22 7 1 21 51	0 29 0 46 1 2 1 19 1 36	22 7 1 21 54 1 21 41 1 21 29 1 21 16 1	59 15 31 52 15 19 45 15 7 37 14 55 30 14 43 21 14 31 13 14 19	1 21 1 20 1 19 1 18 1 18		0 39 0 39 0 39 0 39 0 39	20 27 20 29 20 30 20 31 20 32 20 33 20 34	1 35 1 35 1 35 1 35 1 35	23 20 23 20 23 20 23 20 23 19 23 19 23 19	0 20 0 20 0 20 0 20 0 20 0 20	8 30 8 30 8 29 8 29 8 29 8 29 8 29	1 44 1 44 1 44 1 44 1 44 1 44	4 11 14 4 4 12 14 4	0 10 9 1 10 11 1 10 11 1 10 11 1 10 11	9 41 9 42 9 43 9 45 9 46 9 47 9 48	28 8 28 8 28 8 28 8 28 8	5 4 5 5 5 6 5 6 5 7 5 7 5 8	3 16 3 16 3 16 3 16 3 16 3 16 3 16
S 18 M19 T 20 W21 T 22 F 23 S 24	23 25 23 25	15 45 4 10 21 0 4 49 25 6 5 27 32 4 56 27 54 4 29	20 47 9 20 32	2 26 2 43 2 58 3 14 3 28	20 25 0 20 13 0 20 1 0	4 14 7 55 13 55 45 13 42 35 13 30 25 13 17 15 13 4 4 12 51	1 15 1 15 1 14 1 13 1 12		0 39 0 39 0 39 0 39 0 39	20 35 20 36 20 37 20 38 20 39 20 40 20 41	1 35 1 35 1 35 1 35 1 35	23 18 23 18 23 18 23 18 23 17 23 17 23 17	0 20 0 20 0 20 0 20 0 20 0 20	8 28 8 28 8 28 8 28 8 28 8 28 8 27	1 44 1 44 1 43 1 43 1 43 1 43 1 43	4 12 14 4 4 12 14 4	1 10 13 2 10 16 2 10 18 2 10 22 2 10 25	9 49 9 50 9 51 9 53 9 54 9 55 9 56	28 8 28 8 28 8 28 8 28 8	5 9 5 9 5 10 5 10 5 11 5 11 5 11	3 16 3 17 3 17 3 17 3 17 3 17 3 17
		17 35 1 30 11 46 0 13 5 35 0n5 0n40 2		4 5 4 15 4 23 4 30	19 13 0 19 2 0 18 50 0 18 39 0	s 8 12 39 20 12 26 32 12 13 44 11 59 57 11 46 s10 11n33	1 10 1 9 1 9 1 8	21 21 21 23 21 25 21 27 21 28 21n30	0 39 0 38 0 38 0 38	20 42 20 43 20 44 20 45 20 46 20n47	1 35 1 35 1 35 1 35	23 16 23 16 23 16 23 15 23 15 23 n15	0 20 0 20 0 20 0 20	8 27 8 27 8 27 8 27 8 27 8 27 8 s27	1 43 1 43 1 43 1 43 1 43 1 n43	4 13 14 4 4 13 14 4 4 13 14 4 4 13 14 4 4 13 14 4 4n13 14 s4	2 10 31 3 10 31 3 10 31 3 10 31	10 1 10 2	28 8 28 8 28 8 28 8	5 12 5 12 5 13 5 13 5 13 5 14	3 17 3 17 3 17 3 18 3 18 3 18

 $\label{eq:Julian Day Number = 2495159.5, Delta T = 102.95 sec} \\ Ecliptic obliquity = 23°25'33, Nutation = 0°00'06, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°24'32, Lahiri = 25°31'32 \\ \\$ 

JULY 2119 00:00 UT

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Day	Sid.t	0	D	ğ	·	ď	4	ħ	)Å(	并	Р	n	u	Ç	ķ	Day
S 1	18 34 12	8945'31	22 <b>Υ</b> 15	1°R13	2°R16	3 <b>m</b> ) 17	11 <b>II</b> 39	13 <b>II</b> 7	119546	26°R 2	22 <b>8</b> 54	2°R40	3 <b>∺</b> 55	25 <b>Ⅱ</b> 34	5 <b>Υ</b> 33	S 1
S 2	18 38 8	9°42'45	4832	09548	2 <b>N</b> 3	3°52	11°52	13°14	11°49	26 <b>♀</b> 2	22°55	2 <b>)</b> (37	3°51	25°41	5°33	S 2
M 3	18 42 5	10°39'58	16°38	0°27	1°47	4°28	12° 5	13°21	11°53	26° 1	22°56	2°32	3°48	25°48	5°34	M 3
T 4	18 46 1	11°37'12	28°36	0°10	1°30	5° 3	12°18	13°28	11°57	26° 1	22°57	2°25	3°45	25°54	5°34	T 4
W 5	18 49 58	12°34'26	10∏29	29 <b>II</b> 56	1°10	5°38	12°31	13°36	12° 0	26° 1	22°58	2°16	3°42	26° 1	5°34	W 5
T 6 F 7	18 53 55 18 57 51	13°31'40 14°28'54	22°21 4 <b>©</b> 12	29°48 29°D43	0°47 0°23	6°14 6°49	12°44 12°57	13°43 13°50	12° 4 12° 7	26° 1 26° 1	22°59 23° 0	2° 7 1°58	3°39 3°35	26° 8 26°15	5°34 5°34	T 6 F 7
S 8	19 148	14 28 34 15°26'07	16° 5	29 D43 29°44	29957	7°25	12 37 13°10	13°57	12°11	26°D 1	23° 1	1°50	3°32	26°21	5°34	S 8
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S 9 M10	19 5 44 19 9 41	16°23'21 17°20'35	28° 2 10Ω 4	29°49 0 <b>©</b> 0	29°29 28°59	8° 0 8°36	13°23 13°36	14° 4 14°11	12°15 12°18	26° 1 26° 1	23° 2 23° 3	1°44 1°39	3°29 3°26	26°28 26°35	5°R35 5°35	S 9 M10
T 11	19 9 41	17 20 33 18°17'49	22°14	0°16	28°27	9°12	13°49	14 11 14°18	12 18 12°22	26° 1	23° 4	1°37	3°23	26°41	5°34	T 11
W12	19 17 34	19°15'03	4m/33	0°37	27°54	9°47	14° 2	14°25	12°26	26° 1	23° 4	1°D37	3°20	26°48	5°34	W12
T 13	19 21 30	20°12'16	17° 4	1° 3	27°19	10°23	14°14	14°31	12°29	26° 1	23° 5	1°37	3°16	26°55	5°34	T 13
F 14	19 25 27	21° 9'30	29°51	1°34	26°44	10°59	14°27	14°38	12°33	26° 2	23° 6	1°39	3°13	27° 2	5°34	F 14
S 15	19 29 24	22° 6'44	12 <b>≏</b> 57	2°11	26° 8	11°35	14°39	14°45	12°36	26° 2	23° 7	1°40	3°10	27° 8	5°34	S 15
S 16	19 33 20	23° 3'57	26°26	2°52	25°31	12°11	14°52	14°52	12°40	26° 2	23° 8	1°R40	3° 7	27°15	5°33	S 16
M17	19 37 17	24° 1'11	10 <b>M</b> .18	3°39	24°53	12°47	15° 4	14°58	12°43	26° 2	23° 8	1°39	3° 4	27°22	5°33	M17
T 18	19 41 13	24°58'24	24°34	4°30	24°16	13°23	15°17	15° 5	12°47	26° 3	23° 9	1°37	3° 1	27°28	5°32	T 18
W19	19 45 10	25°55'38	9 <b>×</b> 12	5°27	23°38	13°59	15°29	15°12	12°51	26° 3	23°10	1°33	2°57	27°35	5°32	W19
T 20 F 21	19 49 6 19 53 3	26°52'52 27°50'06	24° 7 9 <b>중</b> 12	6°28 7°35	23° 1 22°25	14°36 15°12	15°41 15°53	15°18 15°25	12°54 12°58	26° 3 26° 4	23°10 23°11	1°28 1°23	2°54 2°51	27°42 27°49	5°31 5°31	T 20 F 21
S 22	19 55 3	27 30 00 28°47'20	24°18	8°46	22 23 21°49	15°48	15° 5	15°31	12 38 13° 1	26° 4	23°12	1°19	2°48	27°55	5°30	S 22
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S 23 M24	20 0 56 20 4 53	29°44'35 0 <b>Ω</b> 41'50	9 <b>≈</b> 14 23°53	10° 1 11°22	21°14 20°40	16°25 17° 1	16°17 16°29	15°37 15°44	13° 5 13° 8	26° 5 26° 5	23°12 23°13	1°16 1°15	2°45 2°41	28° 2 28° 9	5°29 5°29	S 23 M24
T 25	20 4 33	1°39'06	8 <del>)(</del> 9	12°47	20° 8	17°38	16°41	15°50	13°12	26° 6	23°14	1°D15	2°38	28°15	5°28	T 25
W26	20 12 46	2°36'22	21°58	14°16	19°38	18°14	16°53	15°56	13°15	26° 6	23°14	1°16	2°35	28°22	5°27	W26
T 27	20 16 42	3°33'40	5 <b>Υ</b> 21	15°49	19° 9	18°51	17° 4	16° 2	13°19	26° 7	23°15	1°17	2°32	28°29	5°26	T 27
F 28	20 20 39	4°30'58	18°19	17°26	18°42	19°28	17°16	16° 8	13°22	26° 7	23°15	1°19	2°29	28°35	5°25	F 28
S 29	20 24 35	5°28'17	0 <b>8</b> 56	19° 8	18°17	20° 4	17°28	16°14	13°25	26° 8	23°16	1°R20	2°26	28°42	5°24	S 29
S 30	20 28 32	6°25'37	13°15	20°53	17°55	20°41	17°39	16°20	13°29	26° 9	23°16	1°19	2°22	28°49	5°23	S 30
M31	20 32 29	7 <b>Ω</b> 22'58	25 <b>8</b> 21	229541	17934	21 Mp 18	17 <b>II</b> 50	16耳26	13932	26 <b>♀</b> 9	23 <b>8</b> 17	1 <b>米</b> 18	2 <b>)</b> 19	28耳56	5 <b>Ƴ</b> 22	M31

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S 2 M 3 T 4 W 5 T 6 F 7	23 0 22 55 22 50 22 44	21 30 4 24 48 5 27 0 5 27 59 4	31 18 43 55 18 42 5 18 43 3 18 45 48 18 48 20 18 53	4 43 4 43 4 41 4 37	18 8 17 58 17 48 17 39 17 30 17 21	1 50 2 4 2 18	10 12	1 5 1 4 1 4 1 3	21 34 21 36 21 37 21 39 21 41 21 43	0 38 0 38 0 38 0 38	20 49 20 49 20 50 20 51 20 52 20 53	1 35 1 35 1 35 1 35	23 14 23 14 23 14 23 13 23 13 23 13	0 20 0 20 0 20 0 20	8 27 8 27 8 27 8 27	1 43 1 43 1 43 1 43 1 43 1 43	4 13 4 13 4 13 4 13	14 44 14 44 14 44 14 44	10 32 10 34 10 37 10 40 10 43 10 46	10 6 10 8 10 9 10 10		5 14 5 14 5 15 5 15 5 15 5 15	3 18 3 18 3 18 3 18 3 19 3 19
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S 9 M10 T 11 W12 T 13 F 14 S 15	22 18	19 32 1 14 54 0 9 36 0s 3 50 1 2s12 2	51 19 5 54 19 13 51 19 22 816 19 32 23 19 42 27 19 53 26 20 4	4 12 4 4 3 54 2 3 43 3 32	17 4 16 57 16 49 16 42 16 36 16 29 16 23	3 15 3 29 3 43 3 57 4 10 4 23 4 36	9 16 9 2 8 48 8 34 8 19	1 0 0 59 0 59 0 58 0 57	21 46 21 47 21 49 21 51 21 52 21 54 21 55	0 38 0 38 0 38 0 38 0 38	20 54 20 55 20 56 20 57 20 58 20 58 20 59	1 35 1 35 1 35 1 35 1 35	23 12 23 12 23 11 23 11 23 11 23 10 23 10	0 20 0 20 0 20 0 20 0 20 0 20	8 27 8 27 8 27 8 27 8 27	1 42 1 42 1 42 1 42 1 42	4 13 4 13 4 13 4 13 4 13	14 45 14 45 14 46 14 46 14 46	10 51 10 53 10 54 10 54 10 53 10 53 10 53	10 15 10 16 10 17 10 18 10 19	28 7 28 7 28 6 28 6 28 6	5 15 5 15 5 16 5 16 5 16 5 16 5 16	3 19 3 19 3 19 3 19 3 19 3 19 3 20
S 16 M17 T 18 W19 T 20 F 21 S 22	21 7 20 57 20 46 20 35	19 29 4 23 53 5 26 54 5	14 20 16 50 20 28 9 20 39 8 20 51 47 21 2 6 21 12 8 21 22	2 55 2 42 2 28 2 2 15 2 1	16 4		7 36 7 22	0 55 0 54 0 54 0 53	21 56 21 58 21 59 22 1 22 2 22 3 22 4	0 38 0 38 0 38 0 38	21 2 21 3	1 35 1 35 1 35 1 35 1 35	23 9 23 9 23 8 23 8	0 20 0 20 0 20 0 20 0 20 0 20	8 28 8 28 8 28 8 28 8 29	1 42 1 42 1 42 1 42	4 13 4 13 4 13 4 13 4 13	14 47 14 47 14 47 14 48	10 52 10 53 10 54 10 55 10 57 10 59 11 0	10 23 10 24 10 25 10 26	28 5 28 5 28 5 28 5 28 5 28 4	5 16 5 16 5 15 5 15 5 15 5 15 5 15	3 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20
S 23 M24 T 25 W26 T 27 F 28 S 29 S 30 M31	19 59 19 47 19 34 19 21 19 7 18 53 18 39	14 11 0 7 56 0r 1 29 1 4n49 2 10 43 3 16 1 4 20 33 4	57 21 31 40 21 39 138 21 45 51 21 50 56 21 53 50 21 54 31 21 53 59 21 50 112 21n45	1 18 1 4 0 50 0 37 0 23 0 10 0 0n 2	15 50 15 48 15 46 15 44 15 43 15 42 15 41 15 41 15 41	5 59 6 7 6 13 6 19 6 24 6 29 6 33 6 36 6 s38	5 54 5 39 5 24 5 9 4 54 4 39 4 24	0 50 0 49 0 48 0 47 0 47	22 6 22 7 22 8 22 9 22 10 22 12 22 13 22 14 22n15	0 38 0 38 0 38 0 38 0 38 0 38		1 35 1 35 1 35 1 35 1 35 1 35	23 7 23 7 23 6 23 6 23 6 23 6 23 5	0 20 0 20 0 21 0 21 0 21 0 21 0 21	8 29 8 30 8 30 8 30 8 30 8 31	1 42 1 42 1 42 1 42	4 12 4 12 4 12 4 12 4 12 4 12 4 12	14 48 14 49 14 49 14 49 14 50 14 50 14 50 14 50	11 2 11 2 11 1 11 1 11 0 11 0	10 29 10 31 10 32 10 33 10 34 10 35 10 36	28 4 28 3 28 3 28 3 28 2 28 2 28 2	5 15 5 15 5 14 5 14 5 14 5 13 5 13 5 13	3 20 3 21 3 21 3 21 3 21 3 21 3 21 3 21 3 21

Julian Day Number = 2495189.5, Delta T = 102.99 sec Ecliptic obliquity =  $23^{\circ}25'33$ , Nutation =  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'36$ , Lahiri =  $25^{\circ}31'36$ 

AUGUST 2119 00:00 UT

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T 1	20 36 25	8 <b>\Omega</b> 20'20	7 <b>Ⅱ</b> 18	24932	17°R16	21 m 55	18 <b>I</b> I 2	16 <b>II</b> 32	13936	26₽10	23817	1°R16	2 <b>)</b> 16	29耳 2	5°R21	T 1
W 2	20 40 22	9°17'43	19°10	26°27	1795 0	22°32	18°13	16°38	13°39	26°11	23°18	1 <b>)</b> 13	2°13	29° 9	5 <b>Υ</b> 20	W 2
T 3	20 44 18	10°15'08	199 1	28°23	16°47	23° 9	18°24	16°43	13°42	26°12	23°18	1°10	2°10	29°16	5°18	T 3
F 4	20 48 15	11°12'33	12°54	$0\Omega 22$	16°36	23°46	18°35	16°49	13°46	26°13	23°19	1° 6	2° 7	29°22	5°17	F 4
S 5	20 52 11	12° 9'59	24°52	2°23	16°27	24°23	18°46	16°55	13°49	26°14	23°19	1° 4	2° 3	29°29	5°16	S 5
S 6	20 56 8	13° 7'26	$6\Omega$ 57	4°25	16°21	25° 1	18°57	17° 0	13°52	26°14	23°20	1° 1	2° 0	29°36	5°14	S 6
M 7	21 0 4	14° 4'54	19°10	6°28	16°17	25°38	19° 7	17° 5	13°56	26°15	23°20	1° 0	1°57	29°43	5°13	M 7
T 8	21 4 1	15° 2'23	1 <b>m</b> 33	8°32	16°D15	26°15	19°18	17°11	13°59	26°16	23°20	1°D 0	1°54	29°49	5°11	T 8
W 9	21 7 58	15°59'52	14° 8	10°36	16°16	26°53	19°29	17°16	14° 2	26°17	23°21	1° 0	1°51	29°56	5°10	W 9
T 10	21 11 54	16°57'23	26°55	12°41	16°19	27°30	19°39	17°21	14° 5	26°18	23°21	1° 1	1°47	099 3	5° 8	T 10
F 11	21 15 51	17°54'54	9 <b>≙</b> 56	14°45	16°24	28° 8	19°49	17°26	14° 8	26°19	23°21	1° 2	1°44	0° 9	5° 7	F 11
S 12	21 19 47	18°52'27	23°13	16°49	16°32	28°45	20° 0	17°31	14°11	26°20	23°21	1° 3	1°41	0°16	5° 5	S 12
S 13	21 23 44	19°50'00	6 <b>M</b> .46	18°53	16°41	29°23	20°10	17°36	14°15	26°22	23°22	1° 4	1°38	0°23	5° 3	S 13
M14	21 27 40	20°47'34	20°36	20°56	16°53	0 <b>亚</b> 0	20°20	17°41	14°18	26°23	23°22	1°R 4	1°35	0°29	5° 1	M14
T 15	21 31 37	21°45'09	4 <b>₹</b> 43	22°57	17° 7	0°38	20°30	17°46	14°21	26°24	23°22	1° 4	1°32	0°36	5° 0	T 15
W16	21 35 33	22°42'44	1 <u>9°</u> 5	24°58	17°22	1°16	20°39	17°51	14°24	26°25	23°22	1° 3	1°28	0°43	4°58	W16
T 17	21 39 30	23°40'21	3 <b>る</b> 40	26°58	17°40	1°54	20°49	17°56	14°27	26°26	23°22	1° 3	1°25	0°50	4°56	T 17
F 18	21 43 27	24°37'59	18°21	28°56	17°59	2°32	20°59	18° 0	14°30	26°28	23°22	1° 2	1°22	0°56	4°54	F 18
S 19	21 47 23	25°35'37	3≈ 4	0 <b>m</b> 53	18°20	3°10	21° 8	18° 5	14°33	26°29	23°23	1° 1	1°19	1° 3	4°52	S 19
S 20	21 51 20	26°33'17	17°41	2°49	18°43	3°48	21°17	18° 9	14°36	26°30	23°23	1° 1	1°16	1°10	4°50	S 20
M21	21 55 16	27°30'58	2 <b>)</b> 6	4°44	19° 8	4°26	21°27	18°13	14°39	26°31	23°23	1°D 1	1°13	1°16	4°48	M21
T 22	21 59 13	28°28'40	16°14	6°37	19°34	5° 4	21°36	18°18	14°41	26°33	23°23	1° 1	1° 9	1°23	4°46	T 22
W23	22 3 9	29°26'24	0 <b>Υ</b> 1	8°29	20° 2	5°42	21°45	18°22	14°44	26°34	23°23	1° 1	1° 6	1°30	4°44	W23
T 24	22 7 6	0 Mp 24'09	13°25	10°19	20°32	6°20	21°54	18°26	14°47	26°36	23°R23	1° 1	1° 3	1°37	4°42	T 24
F 25	22 11 2	1°21'56	26°26	12° 8	21° 3	6°58	22° 2	18°30	14°50	26°37	23°23	1°R 1	1° 0	1°43	4°40	F 25
S 26	22 14 59	2°19'45	9 <b>8</b> 5	13°56	21°35	7°37	22°11	18°34	14°52	26°38	23°23	1° 1	0°57	1°50	4°37	S 26
S 27	22 18 56	3°17'35	21°27	15°42	22° 9	8°15	22°19	18°38	14°55	26°40	23°23	1° 1	0°53	1°57	4°35	S 27
M28	22 22 52	4°15'27	3 <b>Ⅱ</b> 35	17°27	22°44	8°54	22°28	18°41	14°58	26°41	23°23	1°D 1	0°50	2° 3	4°33	M28
T 29	22 26 49	5°13'21	15°32	19°10	23°20	9°32	22°36	18°45	15° 0	26°43	23°23	1° 1	0°47	2°10	4°31	T 29
W30	22 30 45	6°11'16	27°25	20°52	23°58	10°11	22°44	18°48	15° 3	26°44	23°22	1° 1	0°44	2°17	4°28	W30
T 31	22 34 42	7 <b>m</b> ) 9'14	9 <b>9</b> 17	22 <b>m</b> 33	24936	10 <b>≏</b> 49	22 <b>II</b> 52	18∏52	1599 6	26 <b>≏</b> 46	23822	1 <b>米</b> 2	0 <b>∺</b> 41	2923	<b>4</b> Υ26	T 31

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T 1 W 2 T 3 F 4 S 5	18n10 17 55 17 40 17 24 17 8	27 57 4 59 27 58 4 33 26 42 3 55	2 21n37 2 21 27 3 21 14 5 20 58 5 20 40	0n26 15n42 0 36 15 42 0 46 15 43 0 56 15 45 1 4 15 46	6 41 3 3 6 42 3 3 6 42 3	8 0 44 23 0 43 8 0 43	22n16 22 17 22 18 22 19 22 20	0 38 0 38 0 38	21n10 21 10 21 11 21 11 21 11	1 s36 1 36 1 36 1 36 1 36	23 4 23 3		8 32 1 8 32 1	41 4 41 4 41 4	11 14s51 11 14 51 11 14 51 11 14 51 11 14 52	11 2 11 3 11 4	10 s40 10 41 10 42 10 43 10 44	28 1 28 0 28 0	5n12 5 12 5 11 5 11 5 10	3n21 3 21 3 22 3 22 3 22
S 6 M 7 T 8 W 9 T 10	16 52 16 36	20 36 2 9 16 6 1 5 10 52 0s 3 5 8 1 12	20 19 5 19 55 6 19 29	1 12 15 48 1 19 15 50 1 25 15 52 1 31 15 54 1 35 15 56	6 41 2 3 6 39 2 3 6 37 2 6 35 1 3	67 0 41 21 0 41 6 0 40 61 0 39	22 21 22 21 22 21 22 22 2 22 23 2 22 24	0 38 0 38 0 38 0 38	21 12 21 12 21 13 21 13 21 14	1 36 1 36 1 36 1 36 1 36	23 3 23 2 23 2 23 2	0 21 0 21 0 21 0 21	8 33 1 8 34 1 8 34 1 8 34 1 8 35 1	41 4 41 4 41 4 41 4	10 14 52 10 14 52 10 14 53 10 14 53 10 14 53	11 6 11 7 11 7 11 7	10 45 10 46 10 48 10 49	27 59 27 59 27 58 27 58 27 58	5 10 5 10 5 9 5 8 5 8	3 22 3 22 3 22 3 22 3 22 3 22
F 11 S 12	15 27 15 9	6 59 3 19 12 53 4 10	17 58 17 24	1 39 15 59 1 42 16 1	6 29 1 2 6 26 1	0 38	22 25 22 26	0 38 0 38	21 14 21 14	1 36 1 36	23 1 23 1	0 21 0 21	8 35 1 8 36 1	41 4	9 14 53 9 14 54	11 6 11 6	10 51 10 52	27 57 27 57	5 7 5 7	3 22 3 22
S 13 M14 T 15 W16 T 17 F 18 S 19	14 33 14 15 13 56 13 37 13 18	22 53 5 11 26 15 5 16 27 59 5 1 27 49 4 27 25 43 3 35	15 31 14 51 14 10	1 44 16 4 1 45 16 7 1 46 16 9 1 46 16 12 1 45 16 14 1 43 16 17 1 42 16 19	6 9 0 6 4 0s 5 59 0	0 36 7 0 35 2 0 35 4 0 34 60 0 33	22 26 22 27 22 28 22 28 22 29 22 30 22 30	0 38 0 38 0 38 0 38 0 38	21 15 21 16 21 16 21 16 21 16 21 17 21 17		23 0 23 0 23 0	0 21 0 21 0 21 0 21	8 37 1 8 38 1 8 38 1 8 39 1	41 4 41 4 41 4 41 4 40 4 40 4 40 4	9 14 54 9 14 54 9 14 55 8 14 55 8 14 55 8 14 56	11 5 11 5 11 6 11 6 11 6	10 54 10 56 10 57 10 58 10 59	27 56 27 56 27 55 27 55 27 55 27 54 27 54	5 6 5 5 5 5 5 4 5 3 5 3 5 2	3 22 3 22 3 22 3 23 3 23 3 23 3 23
S 20 M21 T 22 W23 T 24 F 25 S 26	12 39 12 20 12 0 11 40 11 19 10 59 10 38	10 38 On 6 4 9 1 23 2n22 2 34 8 35 3 34	5 11 16 5 10 31 4 9 45 4 9 0 8 14	1 39 16 22 1 36 16 24 1 33 16 26 1 29 16 28 1 24 16 29 1 19 16 31 1 14 16 32	5 43 1 5 38 1 3 5 32 1 4 5 26 2 5 20 2 2	7 0 31 32 0 31 48 0 30 4 0 29 20 0 29	22 31 22 32 22 32 22 33 22 33 22 34 22 34	0 38 0 38 0 38 0 38 0 38	21 17 21 17 21 18 21 18 21 18 21 18 21 19	1 37 1 37 1 37 1 37 1 38	22 58 22 58 22 58 22 58 22 57 22 57 22 57	0 21 0 21	8 40 1 8 41 1 8 41 1 8 42 1 8 42 1	40 4 40 4 40 4 40 4 40 4 40 4 40 4	7 14 56 7 14 56 7 14 56 7 14 57 6 14 57 6 14 57 6 14 58	11 6 11 6 11 6 11 6 11 6	11 2 11 3 11 5 11 6 11 7		5 1 5 1 5 0 4 59 4 58 4 57 4 57	3 23 3 23 3 23 3 23 3 23 3 23 3 23
S 27 M28 T 29 W30 T 31	10 18 9 57 9 35 9 14 8n53	26 2 5 17 27 44 5 7	5 56 5 9 4 24	1 9 16 33 1 3 16 34 0 57 16 34 0 51 16 34 0n44 16n34	5 1 3 4 55 3 3 4 48 3	7 0 27 22 0 26 88 0 26	22 35 22 35 22 36 22 36 22 36 22n37	0 38 0 38 0 38	21 19 21 19 21 19 21 20 21n20	1 38 1 38 1 38	22 56 22 56 22 56 22 56 22 56 22n55	0 21 0 21	8 44 1 8 44 1 8 45 1	40 4 40 4 40 4 40 4 40 4 40 4n	5 14 58 5 14 58 5 14 58 5 14 59 4 14 859	11 6 11 6 11 6	11 10 11 11 11 12	27 49 27 49 27 48 27 48 27n47	4 56 4 55 4 54 4 53 4n52	3 23 3 23 3 23 3 23 3 23 3n23

 $\label{eq:Julian Day Number = 249520.5, Delta T = 103.04 sec} \\ Ecliptic obliquity = 23°25'33, Nutation = 0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°24'40, Lahiri = 25°31'40} \\$ 

SEPTEMBER 2119 00:00 UT

JLI	LUDEN														00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)મ(	并	В	S.	ß	Ç	ķ	Day
F 1	22 38 38	8 mp 7'13	219512	24 m/13	259916	11 <b>≏</b> 28	23 <b>I</b> I 0	18 <b>II</b> 55	1599 8	26 <u>₽</u> 48	23°R22	1 <b>)</b> 2	0 <b>)</b> €38	2930	4°R24	F 1
S 2	22 42 35	9° 5'14	3 <b>Ω</b> 15	25°51	25°57	12° 7	23° 7	18°58	15°11	26°49	23 <b>8</b> 22	1° 3	0°34	2°37	<b>4</b> Υ21	S 2
S 3	22 46 31	10° 3'16	15°28	27°28	26°39	12°46	23°15	19° 2	15°13	26°51	23°22	1° 4	0°31	2°44	4°19	S 3
M 4	22 50 28	11° 1'21	27°53	29° 4	27°22	13°24	23°22	19° 5	15°15	26°53	23°22	1°R 4	0°28	2°50	4°16	M 4
T 5	22 54 25	11°59'27	10 <b>m</b> 33	0 <b>ჲ</b> 38	28° 6	14° 3	23°30	19° 8	15°18	26°54	23°21	1° 4	0°25	2°57	4°14	T 5
W 6	22 58 21	12°57'34	23°28	2°12	28°51	14°42	23°37	19°10	15°20	26°56	23°21	1° 3	0°22	3° 4	4°11	W 6
T 7	23 2 18	13°55'43	6 <b>₾</b> 38	3°44	29°36	15°21	23°44	19°13	15°22	26°58	23°21	1° 2	0°19	3°10	4° 9	T 7
F 8	23 6 14	14°53'54	20° 3	5°14	$0\Omega 23$	16° 0	23°50	19°16	15°25	26°59	23°20	1° 0	0°15	3°17	4° 6	F 8
S 9	23 10 11	15°52'07	3 <b>M</b> 40	6°44	1°10	16°40	23°57	19°18	15°27	27° 1	23°20	0°58	0°12	3°24	4° 4	S 9
S 10	23 14 7	16°50'21	17°29	8°12	1°59	17°19	24° 3	19°21	15°29	27° 3	23°20	0°57	0° 9	3°30	4° 1	S 10
M11	23 18 4	17°48'36	1 <b>∡</b> 727	9°39	2°48	17°58	24°10	19°23	15°31	27° 5	23°19	0°55	0° 6	3°37	3°58	M11
T 12	23 22 0	18°46'53	15°34	11° 5	3°38	18°37	24°16	19°26	15°33	27° 7	23°19	0°D55	0° 3	3°44	3°56	T 12
W13	23 25 57	19°45'12	29°46	12°29	4°28	19°17	24°22	19°28	15°35	27° 9	23°19	0°55	29≈59	3°51	3°53	W13
T 14	23 29 53	20°43'32	14중 2	13°53	5°19	19°56	24°28	19°30	15°37	27°10	23°18	0°56	29°56	3°57	3°51	T 14
F 15	23 33 50	21°41'54	28°19	15°14	6°11	20°36	24°33	19°32	15°39	27°12	23°18	0°57	29°53	4° 4	3°48	F 15
S 16	23 37 47	22°40'17	12≈35	16°35	7° 4	21°15	24°39	19°34	15°41	27°14	23°17	0°58	29°50	4°11	3°45	S 16
S 17	23 41 43	23°38'41	26°45	17°54	7°57	21°55	24°44	19°35	15°43	27°16	23°17	0°R59	29°47	4°17	3°43	S 17
M18	23 45 40	24°37'08	10 <b>) (</b> 46	19°11	8°51	22°34	24°49	19°37	15°45	27°18	23°16	0°59	29°44	4°24	3°40	M18
T 19	23 49 36	25°35'36	24°35	20°27	9°45	23°14	24°54	19°38	15°46	27°20	23°16	0°57	29°40	4°31	3°37	T 19
W20	23 53 33	26°34'06	8 <b>Υ</b> 9	21°41	10°40	23°54	24°59	19°40	15°48	27°22	23°15	0°55	29°37	4°37	3°34	W20
T 21	23 57 29	27°32'37	21°24	22°54	11°36	24°34	25° 4	19°41	15°50	27°24	23°15	0°51	29°34	4°44	3°32	T 21
F 22	0 1 26	28°31'11	4822	24° 5	12°32	25°13	25° 8	19°42	15°51	27°26	23°14	0°47	29°31	4°51	3°29	F 22
S 23	0 5 22	29°29'48	17° 0	25°14	13°28	25°53	25°13	19°43	15°53	27°28	23°14	0°42	29°28	4°58	3°26	S 23
S 24	0 9 19	0 <b>ჲ</b> 28'26	29°22	26°21	14°26	26°33	25°17	19°44	15°55	27°30	23°13	0°38	29°24	5° 4	3°23	S 24
M25	0 13 16	1°27'06	11 <b>II</b> 30	27°26	15°23	27°13	25°21	19°45	15°56	27°32	23°12	0°35	29°21	5°11	3°21	M25
T 26	0 17 12	2°25'49	23°28	28°29	16°21	27°53	25°25	19°46	15°58	27°34	23°12	0°33	29°18	5°18	3°18	T 26
W27	0 21 9	3°24'34	5920	29°29	17°20	28°34	25°28	19°47	15°59	27°36	23°11	0°D33	29°15	5°24	3°15	W27
T 28	0 25 5	4°23'21	17°12	0 <b>M</b> .27	18°19	29°14	25°32	19°47	16° 0	27°38	23°10	0°34	29°12	5°31	3°12	T 28
F 29	0 29 2	5°22'11	29° 8	1°22	19°18	29°54	25°35	19°48	16° 2	27°40	23°10	0°35	29° 9	5°38	3°10	F 29
S 30	0 32 58	6 <b>₽</b> 21'03	11 <b>Q</b> 12	2MJ4	$20\Omega 18$	0 <b>M</b> .34	25 <b>Ⅲ</b> 38	19 <b>∏</b> 48	1699 3	27 <b>≏</b> 42	23 <b>8</b> 9	0 <b>∺</b> 37	29≈ 5	59544	3 <b>℃</b> 7	S 30

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	decl	decl lat
F 1		25n 6 3n23	2n52 0n3				21n20 1s38	22n55 0n21	8 s46 1n40		11s 6 11s1		4n51 3n23
S 2	8 10	21 49 2 28	2 7 0 3	0 16 33 4 28	4 25 0 24	22 37 0 38	21 20 1 38	22 55 0 21	8 47 1 40	4 4 15 0	11 6 11 1	5 27 46	4 50 3 23
S 3	7 48		1					22 55 0 21	8 48 1 40		11 5 11 1		4 49 3 23
M 4	7 26	12 29 0 18	0 37 0 1					22 54 0 21	8 48 1 40		11 5 11 1		4 48 3 23
T 5	7 4	6 48 0s52		8 16 28 4 8				22 54 0 21	8 49 1 40		11 5 11 1		4 47 3 23
W 6	6 41	0 44 2 1		0 16 26 4 2				22 54 0 21	8 49 1 40	-	11 6 11 2		4 46 3 23
T 7 F 8	6 19	5 s 27 3 4 11 31 3 59		7 16 23 3 55 5 16 20 3 48				22 54 0 21 22 53 0 21	8 50 1 40 8 51 1 40	-	11 6 11 2 11 7 11 2		4 45 3 23 4 44 3 23
S 9	5 34			3 16 20 3 48				22 53 0 21	8 51 1 40	-	11 7 11 2		4 44 3 23
S 10	-	21 56 5 7						22 53 0 21	8 52 1 40		11 8 11 2		4 42 3 23
M11	-			/ - /		22 40 0 38		22 53 0 21	8 53 1 40	_	11 8 11 2		4 41 3 23
T 12	-						21 21 1 39		8 53 1 39	4 0 15 2		7 27 39	4 40 3 23
W13	-	28 2 4 36		6 15 59 3 15			21 21 1 40		8 54 1 39			3 27 39	4 39 3 23
T 14 F 15	-	26 30 3 51 23 16 2 50		4 15 53 3 8 2 15 47 3 1				22 52 0 22 22 52 0 22	8 55 1 39 8 56 1 39		11 8 11 2 11 8 11 3	27 38	4 38 3 23 4 37 3 23
S 16	-	18 37 1 40						22 52 0 22			11 8 11 3		4 37 3 23
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S 17	-	12 57 0 23						22 52 0 22				3 27 36	4 35 3 23
M18	2 8	6 42 0n54						22 51 0 22				4 27 35	4 34 3 23
T 19	1 45	0 13 2 6						22 51 0 22			11 8 11 3		4 32 3 23
W20	1 22		10 11 1 5	-				22 51 0 22			-	5 27 34	4 31 3 23
T 21 F 22	0 59	-		1 15 2 2 22 8 14 53 2 15				22 51 0 22 22 51 0 22			11 10 11 3 11 12 11 3	7 27 33	4 30 3 23 4 29 3 23
S 23			11 19 2 11 52 2 1					22 51 0 22 22 50 0 22			11 12 11 3		4 29 3 23
	0 12	21 45 5 4	11 32 2 1	0 14 43 2 9			21 21 1 41			3 30 13 3	11 13 11 3	2/ 31	4 26 3 23
S 24	0 s11		12 24 2 2				21 21 1 41				11 15 11 4		4 27 3 23
M25	0 35						21 21 1 41				11 16 11 4		4 26 3 23
T 26	0 58		13 23 2 3				21 21 1 41				11 16 11 4		4 25 3 23
W27	1 21		13 51 2 4				21 21 1 41				11 16 11 4		4 23 3 22
T 28	1 45		14 18 2 5					22 50 0 22			11 16 11 4		4 22 3 22
F 29 S 30			14 43 2 5					22 50 0 22			11 16 11 4		4 21 3 22 4n20 3n22
3 30	2831	19n 4 1n44	15 s 7 3 s	3   13n22   1s25	11834 Un 6	22H43 US38	21n21 1s41	22n50 0n22	9s 7 1n39	3fi34 138 6	11 s15 11 s4	/ 2/n26	4n20 3n22

 $\label{eq:Julian Day Number = 2495251.5, Delta T = 103.08 sec} \\ Ecliptic obliquity = 23°25'34, Nutation = 0°00'09, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°24'44, Lahiri = 25°31'45 \\$ 

OCTOBER 2119 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	卉	Р	v	v	Ç	ķ	Day
S 1	0 36 55	7 <b>₽</b> 19'56	23 <b>£</b> 31	3M 3	21 19	1 <b>M</b> .15	25耳41	19 <b>Ⅱ</b> 48	1695 4	27 <b>≏</b> 45	23°R 8	0 <b>∺</b> 38	29≈ 2	5 <b>9</b> 51	3°R 4	S 1
M 2	0 40 51	8°18'52	6Mp 6	3°49	22°19	1°55	25°43	19°R48	16° 5	27°47	238 8	0°R38	28°59	5°58	3 <b>Υ</b> 1	M 2
T 3	0 44 48	9°17'50	19° 0	4°30	23°20	2°36	25°46	19°48	16° 6	27°49	23° 7	0°37	28°56	6° 4	2°59	T 3
W 4	0 48 45	10°16'51	2 <b>≏</b> 15	5° 7	24°22	3°16	25°48	19°48	16° 7	27°51	23° 6	0°33	28°53	6°11	2°56	W 4
T 5	0 52 41	11°15'53	15°49	5°40	25°24	3°57	25°50	19°48	16° 8	27°53	23° 5	0°28	28°50	6°18	2°53	T 5
F 6	0 56 38	12°14'57	29°41	6° 8	26°26	4°38	25°52	19°48	16° 9	27°55	23° 4	0°22	28°46	6°25	2°50	F 6
S 7	1 0 34	13°14'04	13 <b>M</b> .46	6°31	27°28	5°18	25°54	19°47	16°10	27°58	23° 4	0°15	28°43	6°31	2°48	S 7
S 8	1 431	14°13'12	28° 0	6°48	28°31	5°59	25°55	19°47	16°11	28° 0	23° 3	0° 8	28°40	6°38	2°45	S 8
M 9	1 8 27	15°12'22	12 <b>×</b> 18	6°58	29°34	6°40	25°56	19°46	16°12	28° 2	23° 2	0° 2	28°37	6°45	2°42	M 9
T 10	1 12 24	16°11'34	26°35	7°R 2	0 <b>m</b> 38	7°21	25°58	19°45	16°12	28° 4	23° 1	29≈59	28°34	6°51	2°40	T 10
W11	1 16 20	17°10'48	10 <b>궁</b> 49	6°59	1°42	8° 2	25°58	19°44	16°13	28° 6	23° 0	29°D57	28°30	6°58	2°37	W11
T 12	1 20 17	18°10'03	24°57	6°48	2°46	8°43	25°59	19°44	16°13	28° 8	22°59	29°57	28°27	7° 5	2°34	T 12
F 13	1 24 14	19° 9'20	8≈57	6°30	3°50	9°24	26° 0	19°42	16°14	28°11	22°58	29°58	28°24	7°11	2°32	F 13
S 14	1 28 10	20° 8'39	22°50	6° 3	4°55	10° 5	26° 0	19°41	16°15	28°13	22°57	29°R59	28°21	7°18	2°29	S 14
S 15	1 32 7	21° 7'59	6 <b>∺</b> 34	5°27	6° 0	10°46	26°R 0	19°40	16°15	28°15	22°57	29°59	28°18	7°25	2°27	S 15
M16	1 36 3	22° 7'22	20° 9	4°44	7° 5	11°27	26° 0	19°38	16°15	28°17	22°56	29°57	28°15	7°32	2°24	M16
T 17	1 40 0	23° 6'46	<b>3</b> Υ33	3°53	8°11	12° 9	26° 0	19°37	16°16	28°20	22°55	29°53	28°11	7°38	2°22	T 17
W18	1 43 56	24° 6'12	16°46	2°54	9°16	12°50	25°59	19°35	16°16	28°22	22°54	29°46	28° 8	7°45	2°19	W18
T 19	1 47 53	25° 5'40	29°46	1°50	10°22	13°32	25°58	19°34	16°16	28°24	22°53	29°37	28° 5	7°52	2°17	T 19
F 20	1 51 49	26° 5'10	12831	0°40	11°28	14°13	25°57	19°32	16°16	28°26	22°52	29°27	28° 2	7°58	2°14	F 20
S 21	1 55 46	27° 4'43	25° 3	29 <b>≏</b> 27	12°35	14°54	25°56	19°30	16°17	28°29	22°51	29°16	27°59	8° 5	2°12	S 21
S 22	1 59 43	28° 4'17	7 <b>Ⅱ</b> 20	28°13	13°42	15°36	25°55	19°28	16°17	28°31	22°50	29° 6	27°56	8°12	2° 9	S 22
M23	2 3 39	29° 3'54	19°26	26°59	14°49	16°18	25°54	19°26	16°R17	28°33	22°49	28°58	27°52	8°18	2° 7	M23
T 24	2 7 36	OM 3'33	19522	25°49	15°56	16°59	25°52	19°23	16°17	28°35	22°48	28°51	27°49	8°25	2° 5	T 24
W25	2 11 32	1° 3'14	13°13	24°43	17° 3	17°41	25°50	19°21	16°17	28°37	22°47	28°47	27°46	8°32	2° 2	W25
T 26	2 15 29	2° 2'57	25° 3	23°45	18°11	18°23	25°48	19°19	16°16	28°40	22°46	28°45	27°43	8°38	2° 0	T 26
F 27	2 19 25	3° 2'43	$6\Omega$ 56	22°56	19°19	19° 5	25°46	19°16	16°16	28°42	22°45	28°D45	27°40	8°45	1°58	F 27
S 28	2 23 22	4° 2'31	19° 0	22°16	20°27	19°47	25°43	19°13	16°16	28°44	22°44	28°46	27°36	8°52	1°55	S 28
S 29	2 27 18	5° 2'21	1 <b>m</b> ) 18	21°47	21°35	20°29	25°40	19°11	16°16	28°46	22°43	28°R46	27°33	8°58	1°53	S 29
M30	2 31 15	6° 2'13	13°55	21°30	22°43	21°11	25°37	19° 8	16°15	28°49	22°41	28°45	27°30	9° 5	1°51	M30
T 31	2 35 12	7 <b>M</b> 2'07	26 <b>m</b> 56	21°D24	23 <b>m</b> 52	21 <b>M</b> 53	25 <b>Ⅱ</b> 34	19 <b>I</b> 5	169915	28 <b>≏</b> 51	22840	28 <b>≈</b> 41	27≈27	99912	1 <b>Υ</b> 49	T 31

Day	0	D	ğ	Q	ď	4	ħ	)∤(	¥	В	V	v t	o k
	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	2 s 5 5 3 18	8 49 0s30	15 49 3 1		12 4 0 5	22 44 0 38	21n21 1s41 21 21 1 42	22 49 0 22	9 8 1 39		11 15 11	49 27 24	4n19 3n22 4 18 3 22
W 4 T 5	3 41 4 4 4 27	2 51 1 38 3 s23 2 43 9 36 3 40	16 24 3 2 16 38 3 2	22 12 26 1 1 26 12 11 0 56	12 47 0 3	22 44 0 38 22 44 0 38		22 49 0 22 22 49 0 22	9 10 1 39 9 11 1 39	3 52 15 7 3 52 15 7	11 16 11 11 18 11		4 16 3 22 4 15 3 22 4 14 3 22
F 6 S 7		20 40 4 56		30 11 39 0 44	13 16 0 2	22 44 0 38	21 20 1 42	22 49 0 22 22 49 0 22	9 12 1 39	3 51 15 8	11 23 11	54 27 21 55 27 20	4 13 3 22 4 12 3 22
S 8 M 9 T 10	5 59	27 14 5 1	17 10 3 3	32 11 6 0 33	13 44 0 0	22 44 0 38	21 20 1 42	22 49 0 22 22 49 0 22 22 49 0 22	9 14 1 39	3 51 15 8	11 27 11	56 27 19 57 27 18 58 27 17	4 10 3 21 4 9 3 21 4 8 3 21
W11 T 12 F 13		24 2 2 57 19 47 1 51	17 0 3 2 16 49 3 2	25 10 13 0 17	14 25 0 2 14 39 0 2	22 44 0 38 22 44 0 38	21 19 1 43 21 19 1 43	22 49 0 22	9 16 1 39 9 17 1 39	3 50 15 9 3 49 15 9	11 29 12 11 29 12	1 27 14	4 7 3 21 4 6 3 21 4 5 3 21
S 14 S 15 M16	7 52 8 14 8 37			5 9 16 0 2	14 53 0 3 15 6 0 3 15 19 0 4	22 44 0 38		22 49 0 22 22 48 0 22 22 48 0 22	9 18 1 39	3 49 15 9	11 28 12 11 28 12 11 29 12	2 4 27 13	4 4 3 21 4 2 3 21 4 1 3 21
T 17 W18	8 59 9 21	4n 1 2 50 10 1 3 44	15 21 2 4 14 48 2 2	42 8 37 0 7 29 8 17 0 12	15 33 0 5 15 46 0 5	22 44 0 38 22 44 0 38	21 18 1 43 21 18 1 43	22 48 0 22 22 48 0 22	9 20 1 39 9 21 1 39	3 48 15 9 3 47 15 9	11 30 12 11 33 12	2 6 27 11 2 7 27 10	4 0 3 20 3 59 3 20
T 19 F 20 S 21		20 12 4 51	14 11 2 1 13 30 1 5 12 47 1 3	56 7 35 0 21	16 12 0 6	22 44 0 38	-	22     48     0     22       22     48     0     23       22     48     0     23		3 47 15 10 3 47 15 10 3 46 15 10	11 39 12	9 27 8	3 58 3 20 3 57 3 20 3 56 3 20
S 22 M23 T 24		27 45 4 45	12 3 1 1 11 17 0 5 10 32 0 3	57 6 30 0 34	16 50 0 8	22 44 0 38	21 17 1 43 21 17 1 44 21 17 1 44		9 24 1 39 9 25 1 39 9 26 1 39	3 46 15 10 3 46 15 10 3 45 15 10	11 50 12	2 12 27 5	3 55 3 20 3 53 3 19 3 52 3 19
W25 T 26 F 27	12 11	26 23 3 38 23 54 2 50 20 22 1 54	9 9 0n	4 5 23 0 47	17 27 0 10	22 44 0 38	21 17 1 44 21 16 1 44 21 16 1 44	22 49 0 23		3 45 15 10 3 45 15 10 3 44 15 10	11 54 12	2 16 27 2	3 51 3 19 3 50 3 19 3 49 3 19
S 28 S 29	13 12	15 57 0 52 10 48 0s13	7 36 0 5	58 4 13 0 58	18 3 0 12	22 44 0 38	21 15 1 44	22 49 0 23 22 49 0 23		3 44 15 10 3 44 15 11	11 54 12	26 59	
M30 T 31	13 32 13 s51	5 6 1 20 0s59 2s24	7 15 1 1 7s 1 1n2				-	22 49 0 23 22n49 0n23		3 43 15 11 3n43 15 s11			3 46 3 18 3n45 3n18

Julian Day Number = 2495281.5, Delta T = 103.13 sec Ecliptic obliquity =  $23^{\circ}25'34$ , Nutation =  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'48$ , Lahiri =  $25^{\circ}31'49$ 

NOVEMBER 2119 00:00 UT

Day	Sid.t	0	D	ğ	Ş	♂	4	ħ	)∤(	并	В	S.	Ω	Ç	ķ	Day
W 1	2 39 8	8ML 2'03	10 <u>₽</u> 23	21 <b>≏</b> 30	25 mg 1	22 <b>M</b> 35	25°R31	19°R 2	16°R14	28₽53	22°R39	28°R36	27≈24	99519	1°R47	W 1
T 2	2 43 5	9° 2'02	24°15	21°46	26°10	23°17	25Ⅲ27	18 <b>Ⅱ</b> 59	169514	28°55	22 <b>8</b> 38	28≈27	27°21	9°25	1 <b>Y</b> 45	T 2
F 3	2 47 1	10° 2'02	8 <b>M</b> .30	22°12	27°19	24° 0	25°24	18°56	16°13	28°58	22°37	28°17	27°17	9°32	1°43	F 3
S 4	2 50 58	11° 2'05	23° 2	22°48	28°28	24°42	25°20	18°52	16°13	29° 0	22°36	28° 5	27°14	9°39	1°41	S 4
S 5	2 54 54	12° 2'09	7 <b>.</b> ₹44	23°32	29°37	25°24	25°16	18°49	16°12	29° 2	22°35	27°54	27°11	9°45	1°39	S 5
M 6	2 58 51	13° 2'15	22°28	24°24	0 <b>ჲ</b> 47	26° 7	25°12	18°45	16°11	29° 4	22°34	27°45	27° 8	9°52	1°37	M 6
T 7	3 2 47	14° 2'23	7중 7	25°22	1°57	26°49	25° 7	18°42	16°11	29° 6	22°33	27°38	27° 5	9°59	1°35	T 7
W 8	3 6 44	15° 2'32	21°35	26°27	3° 7	27°32	25° 3	18°38	16°10	29° 9	22°32	27°34	27° 2	10° 5	1°33	W 8
T 9	3 10 41	16° 2'43	5 <b>≈</b> 47	27°36	4°17	28°15	24°58	18°35	16° 9	29°11	22°31	27°32	26°58	10°12	1°31	T 9
F 10	3 14 37	17° 2'55	19°44	28°50	5°27	28°57	24°53	18°31	16° 8	29°13	22°29	27°32	26°55	10°19	1°30	F 10
S 11	3 18 34	18° 3'09	3 <b>∺</b> 26	OM 8	6°37	29°40	24°48	18°27	16° 7	29°15	22°28	27°32	26°52	10°25	1°28	S 11
S 12	3 22 30	19° 3'24	16°53	1°28	7°48	0 <b>х</b> 23	24°43	18°23	16° 6	29°17	22°27	27°30	26°49	10°32	1°26	S 12
M13	3 26 27	20° 3'40	0 <b>Υ</b> 6	2°52	8°58	1° 6	24°37	18°19	16° 5	29°19	22°26	27°27	26°46	10°39	1°25	M13
T 14	3 30 23	21° 3'58	13° 8	4°18	10° 9	1°49	24°32	18°15	16° 4	29°21	22°25	27°21	26°42	10°45	1°23	T 14
W15	3 34 20	22° 4'18	25°59	5°46	11°20	2°32	24°26	18°11	16° 3	29°23	22°24	27°12	26°39	10°52	1°22	W15
T 16	3 38 16	23° 4'39	8 <b>8</b> 40	7°15	12°31	3°15	24°20	18° 7	16° 1	29°26	22°23	27° 0	26°36	10°59	1°20	T 16
F 17	3 42 13	24° 5'02	21°10	8°45	13°42	3°58	24°14	18° 3	16° 0	29°28	22°22	26°46	26°33	11° 6	1°19	F 17
S 18	3 46 10	25° 5'26	3Ⅱ29	10°17	14°53	4°41	24° 8	17°58	15°59	29°30	22°20	26°31	26°30	11°12	1°18	S 18
S 19	3 50 6	26° 5'52	15°39	11°49	16° 5	5°24	24° 1	17°54	15°57	29°32	22°19	26°17	26°27	11°19	1°16	S 19
M20	3 54 3	27° 6'20	27°39	13°22	17°16	6° 7	23°55	17°50	15°56	29°34	22°18	26° 5	26°23	11°26	1°15	M20
T 21	3 57 59	28° 6'49	9932	14°56	18°28	6°51	23°48	17°45	15°54	29°36	22°17	25°55	26°20	11°32	1°14	T 21
W22	4 1 56	29° 7'20	21°21	16°30	19°39	7°34	23°41	17°41	15°53	29°38	22°16	25°49	26°17	11°39	1°13	W22
T 23	4 5 52	0 <b>≯</b> 7'53	3 <b>N</b> 9	18° 4	20°51	8°17	23°35	17°36	15°51	29°40	22°15	25°45	26°14	11°46	1°11	T 23
F 24	4 9 49	1° 8'28	15° 0	19°38	22° 3	9° 1	23°28	17°31	15°50	29°42	22°14	25°43	26°11	11°52	1°10	F 24
S 25	4 13 45	2° 9'04	27° 0	21°13	23°15	9°44	23°20	17°27	15°48	29°44	22°13	25°43	26° 7	11°59	1° 9	S 25
S 26	4 17 42	3° 9'42	9 <b>m</b> 15	22°48	24°27	10°28	23°13	17°22	15°47	29°46	22°12	25°43	26° 4	12° 6	1° 8	S 26
M27	4 21 39	4°10'21	21°49	24°22	25°39	11°12	23° 6	17°17	15°45	29°48	22°10	25°42	26° 1	12°12	1° 8	M27
T 28	4 25 35	5°11'03	4 <b>Ω</b> 47	25°57	26°52	11°55	22°59	17°13	15°43	29°50	22° 9	25°39	25°58	12°19	1° 7	T 28
W29	4 29 32	6°11'45	18°14	27°32	28° 4	12°39	22°51	17° 8	15°41	29°52	22° 8	25°33	25°55	12°26	1° 6	W29
T 30	4 33 28	7 <b>,</b> ₹12'30	2 <b>M</b> .10	29M 6	29 <b>≙</b> 17	13 <b>×</b> 23	22 <b>II</b> 43	17 <b>I</b> 3	15939	29 <b>≏</b> 53	228 7	25≈25	25≈52	12932	1 <b>°</b> 5	T 30

Day	0	D	ζ	Į.	ρ		ď	2	4	ŧ	<u> </u>	);	β(	<b>4</b>		Р	n	U	Ç	ď	;
	decl	decl lat	decl	lat	decl	lat de	cl lat	decl	lat	decl	lat	decl	lat	decl l	lat	decl lat	decl	decl	decl	decl	lat
W 1	14s11	7 s12 3 s	22 6s52	1n38	3n 2	1n 8 18s	38 0s14	22n43	0 s38	21n15	1 s44	22n49	0n23	9s32	1n39	3n43 15s1	1 11 s57	12 s22	26n55	3n44	3n18
T 2	14 30	13 16 4	10 6 49	1 47	2 37	1 12 18	19 0 14	22 43	0 38	21 14	1 44	22 49	0 23	9 33	1 39	3 43 15 1	1 12 0	12 23	26 54	3 43	3 18
F 3	14 49	18 48 4	44 6 51	1 55	2 13	1 15 19	0 0 15	22 43	0 38	21 14	1 44	22 49	0 23	9 33	1 39	3 42 15 1	1 12 4	12 24	26 53	3 42	3 18
S 4	15 8	23 21 5	0 6 59	2 2	1 48	1 18 19	11 0 15	22 43	0 38	21 14	1 44	22 49	0 23	9 34	1 39	3 42 15 1	1 12 8	12 25	26 52	3 41	3 17
S 5	15 26	26 28 4	57 7 10	2 7	1 23	1 21 19	22 0 16	22 43	0 38	21 13	1 44	22 49	0 23	9 35	1 39	3 42 15 1	1 12 12	12 27	26 51	3 40	3 17
M 6	15 45	27 46 4	34 7 26	2 10	0 58	1 24 19	32 0 17	22 43	0 38	21 13	1 44	22 50	0 23	9 36	1 39	3 41 15 1	1 12 15	12 28	26 50	3 39	3 17
T 7	16 3	27 7 3	53 7 45	2 12	0 33	1 26 19	13 0 17	22 43	0 38	21 13	1 44	22 50	0 23	9 36	1 39	3 41 15 1	1 12 17	12 29	26 49	3 38	3 17
W 8	16 20	24 37 2	58 8 7	2 13	0 7	1 29 19	53 0 18	22 43		21 12	1 44	22 50	0 23	9 37	1 39	3 41 15 1	1 12 19	12 30	26 48	3 37	3 17
T 9	16 38	20 38 1	52 8 32	2 13	0s18	-		22 42	0 37	21 12		22 50		9 38	1 39	-	1 12 19	-		3 37	3 16
F 10		15 32 0			0 44	1 34 20		22 42		21 12		22 50		9 39	1 39	3 40 15 1				3 36	3 16
S 11	17 12	9 46 On	31 9 28	2 11	1 9	1 36 20	23 0 20	22 42	0 37	21 11	1 45	22 50	0 23	9 39	1 39	3 40 15 1	1 12 19	12 33	26 44	3 35	3 16
S 12	17 29			-	1 35	1 39 20		22 42		21 11		22 50		9 40	1 39	3 40 15 1				3 34	3 16
M13	17 45	2n32 2	43 10 30	2 5	2 1	1 41 20	-	22 42		21 11	1 45	22 51	0 23	9 41	1 39	3 40 15 1			-	3 33	3 16
T 14	18 1	8 30 3			2 27	1 43 20		22 42		21 10		22 51	0 23	9 41	1 39	3 39 15 1				3 32	3 15
W15	18 17	14 1 4	17 11 36		2 53	1 45 21		22 41		21 10		22 51	0 23	9 42	1 39	3 39 15 1				3 32	3 15
T 16		18 52 4	-	1 52	3 19	1 46 21		22 41	0 37			22 51	0 23	9 43	1 39	3 39 15 1				3 31	3 15
F 17			58 12 44		3 45	1 48 21		22 41	0 37			22 51	0 23	9 44	1 39	3 39 15 1				3 30	3 15
S 18	19 2	25 42 4	57 13 18	1 41	4 11	1 50 21	27 0 24	22 41	0 37	21 9	1 45	22 51	0 23	9 44	1 39	3 38 15 1	1 12 40	12 41	26 36	3 29	3 15
S 19	19 16	27 20 4	43 13 52		4 37	1 51 21		22 41	0 37			22 52	0 23	9 45	1 39	3 38 15 1	_			3 29	3 14
M20			16 14 26		5 3	1 53 21		22 40	0 37		1 45	-		9 46	1 39	3 38 15 1	-	_		3 28	3 14
T 21			38 14 59		5 29	1 54 21		22 40	0 37			22 52		9 46	1 39	3 38 15 1				3 27	3 14
W22			51 15 33		5 55	1 55 21		22 40	0 37			22 52		9 47	1 39	3 37 15 1				3 27	3 14
T 23		21 20 1			6 20	1 56 22		22 40	0 37			22 52		9 48	1 39	3 37 15 1				3 26	3 13
F 24			56 16 38	-	6 46	1 57 22		22 39	0 37	-		22 53		9 48	1 39	3 37 15 1				3 25	3 13
S 25	20 35	12 24 0s	7 17 9	0 56	7 12	1 58 22	21 0 28	22 39	0 36	21 6	1 45	22 53	0 24	9 49	1 40	3 37 15 1	0 12 57	12 48	26 28	3 25	3 13
S 26	20 47		11 17 40		7 38	1 59 22		22 39	0 36			22 53		9 50	1 40	3 37 15 1				3 24	3 13
M27	20 58		13 18 11	0 42	8 3	2 0 22		22 39	0 36		1 44			9 50	1 40	3 37 15 1				3 23	3 13
T 28	21 9		11 18 40		8 29	2 0 22		22 38	0 36			22 53		9 51	1 40	3 36 15 1				3 23	3 12
W29	-			0 20	8 54	2 1 22		22 38	0 36			22 54		9 52	1 40	3 36 15 1				3 22	3 12
T 30	21 s30	16 s33 4 s	37 19s36	0n21	9s19	2n 1 22 s	54 0s30	22n38	0 s36	21n 4	1 s44	22n54	0n24	9s52	1n40	3n36 15s1	0 13 s 3	12 s54	26n21	3n22	3n12

Julian Day Number = 2495312.5, Delta T = 103.17 sec Ecliptic obliquity =  $23^{\circ}25'33$ , Nutation =  $0^{\circ}00'07$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'53$ , Lahiri =  $25^{\circ}31'53$ 

DECEMBER 2119 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)∤(	¥	В	R	v	Ç	Š	Day
F 1	4 37 25	8 <b>х</b> 13'16	16 <b>M</b> .35	0 <b>∡</b> 741	0 <b>M</b> 29	14 <b>×7</b> 7	22°R36	16°R58	15°R38	29 <b>₽</b> 55	22°R 6	25°R14	25≈48	12939	1°R 4	F 1
S 2	4 41 21	9°14'03	1 <b>₹</b> 22	2°15	1°42	14°51	22 <b>II</b> 28	16耳53	15936	29°57	22 <b>8</b> 5	25≈ 3	25°45	12°46	1 <b>Υ</b> 4	S 2
S 3	4 45 18	10°14'52	16°25	3°50	2°54	15°35	22°20	16°48	15°34	29°59	22° 4	24°51	25°42	12°52	1° 3	S 3
M 4	4 49 14	11°15'42	1 <b>ට</b> 33	5°24	4° 7	16°19	22°12	16°44	15°32	OM 1	22° 3	24°42	25°39	12°59	1° 3	M 4
T 5	4 53 11	12°16'33	16°36	6°59	5°20	17° 3	22° 4	16°39	15°30	0° 3	22° 2	24°34	25°36	13° 6	1° 2	T 5
W 6	4 57 8	13°17'25	1≈24	8°33	6°33	17°47	21°56	16°34	15°28	0° 4	22° 1	24°30	25°33	13°13	1° 2	W 6
T 7	5 1 4	14°18'18	15°54	10° 7	7°46	18°31	21°48	16°29	15°26	0° 6	22° 0	24°28	25°29	13°19	1° 2	T 7
F 8	5 5 1	15°19'11	0 <b>∺</b> 0	11°41	8°59	19°15	21°40	16°24	15°24	0° 8	21°59	24°D28	25°26	13°26	1° 1	F 8
S 9	5 8 57	16°20'05	13°44	13°16	10°12	20° 0	21°32	16°19	15°21	0° 9	21°58	24°R28	25°23	13°33	1° 1	S 9
S 10	5 12 54	17°21'00	27° 7	14°50	11°25	20°44	21°24	16°14	15°19	0°11	21°57	24°28	25°20	13°39	1° 1	S 10
M11	5 16 50	18°21'56	10 <b>Y</b> 11	16°24	12°39	21°28	21°16	16° 9	15°17	0°13	21°56	24°25	25°17	13°46	1° 1	M11
T 12	5 20 47	19°22'52	22°59	17°58	13°52	22°13	21° 8	16° 4	15°15	0°14	21°55	24°21	25°13	13°53	1° 1	T 12
W13	5 24 43	20°23'49	5 <b>8</b> 34	19°32	15° 5	22°57	21° 0	15°59	15°13	0°16	21°54	24°13	25°10	13°59	1°D 1	W13
T 14	5 28 40	21°24'47	17°58	21° 7	16°19	23°42	20°51	15°54	15°10	0°18	21°53	24° 3	25° 7	14° 6	1° 1	T 14
F 15	5 32 37	22°25'45	0 <b>I</b> I3	22°41	17°32	24°26	20°43	15°49	15° 8	0°19	21°52	23°52	25° 4	14°13	1° 1	F 15
S 16	5 36 33	23°26'44	12°20	24°15	18°46	25°11	20°35	15°45	15° 6	0°21	21°51	23°39	25° 1	14°19	1° 1	S 16
S 17	5 40 30	24°27'44	24°20	25°50	19°59	25°56	20°27	15°40	15° 3	0°22	21°50	23°28	24°58	14°26	1° 1	S 17
M18	5 44 26	25°28'45	69915	27°24	21°13	26°40	20°19	15°35	15° 1	0°24	21°49	23°17	24°54	14°33	1° 1	M18
T 19	5 48 23	26°29'47	18° 5	28°59	22°26	27°25	20°11	15°30	14°58	0°25	21°48	23° 9	24°51	14°39	1° 2	T 19
W20	5 52 19	27°30'49	29°53	0 <b>궁</b> 34	23°40	28°10	20° 3	15°25	14°56	0°26	21°47	23° 3	24°48	14°46	1° 2	W20
T 21	5 56 16	28°31'52	11 <b>Ω</b> 41	2° 9	24°54	28°55	19°55	15°21	14°54	0°28	21°46	23° 1	24°45	14°53	1° 2	T 21
F 22	6 0 13	29°32'55	23°34	3°44	26° 8	29°40	19°47	15°16	14°51	0°29	21°46	23°D 0	24°42	14°59	1° 3	F 22
S 23	6 4 9	0 <b>る</b> 34'00	5 <b>m</b> 34	5°20	27°22	0 <b>궁</b> 25	19°39	15°11	14°49	0°31	21°45	23° 0	24°39	15° 6	1° 3	S 23
S 24	6 8 6	1°35'05	17°46	6°55	28°36	1°10	19°31	15° 7	14°46	0°32	21°44	23° 2	24°35	15°13	1° 4	S 24
M25	6 12 2	2°36'11	0 <b>ჲ</b> 17	8°31	29°50	1°55	19°23	15° 2	14°44	0°33	21°43	23°R 2	24°32	15°19	1° 5	M25
T 26	6 15 59	3°37'18	13° 9	10° 7	1 <b>才</b> 4	2°40	19°15	14°57	14°41	0°34	21°42	23° 2	24°29	15°26	1° 5	T 26
W27	6 19 55	4°38'25	26°28	11°43	2°18	3°25	19° 8	14°53	14°39	0°36	21°41	23° 0	24°26	15°33	1° 6	W27
T 28	6 23 52	5°39'33	10 <b>M</b> .16	13°19	3°32	4°10	19° 0	14°48	14°36	0°37	21°41	22°55	24°23	15°39	1° 7	T 28
F 29	6 27 48	6°40'42	24°34	14°55	4°46	4°55	18°53	14°44	14°33	0°38	21°40	22°49	24°19	15°46	1° 8	F 29
S 30	6 31 45	7°41'51	9 <b>√</b> 19	16°32	6° 0	5°41	18°45	14°40	14°31	0°39	21°39	22°42	24°16	15°53	1° 9	S 30
S 31	6 35 42	8 <b>ප්</b> 43'01	24 <b>×</b> 124	18 <b>궁</b> 9	7 <b>,7</b> 14	6 <b>පි</b> 26	18Ⅲ38	14Ⅲ35	149528	0 <b>M</b> 40	21838	22≈35	24≈13	159559	1 <b>Y</b> 10	S 31

S 2 2 2 S 3 2 M 4 2 T 5 2 W 6 2 T 7 2 S 9 2 S 10 2 M11 2 T 12 2	21 49 21 58 22 7 22 15 22 23 22 30 22 37 22 43 22 49 22 55	decl 1 21 s32 25 18 27 23 27 27 25 29 21 46 16 47 11 0 4 51 1n22	4s58 4 59 4 40 4 2 3 6 1 59 0 45 0n29	decl 20 s 3 20 29 20 54 21 18 21 41 22 3 22 24 22 43 23 2	0n14 0 7 0 0 0s 7 0 13 0 20 0 27 0 33	10 9 10 34 10 59 11 23 11 47 12 11 12 35	2n 1 2 1	23 11 23 16 23 21 23 25	0 s 3 1 0 3 1 0 3 2 0 3 3 0 3 3 0 3 4	decl 22n37 22 37 22 37 22 36 22 36 22 36 22 36		21 3 21 2	1 s44 1 44 1 44	decl 22n54 22 54 22 55	0n24 0 24	decl lat  9 s 5 3 1 n 4 0  9 5 3 1 4 0  9 5 4 1 4 0	3 36 1	5 s 10 : 5 : 10 : 5	13 10 13 14	12 56 12 57	26 19	decl 3n21 3 21 3 20 3 20	3n12 3 11 3 11
S 2 2 2 S 3 2 M 4 2 T 5 2 W 6 2 T 7 2 S 9 2 S 10 2 M11 2 T 12 2	21 49 21 58 22 7 22 15 22 23 22 30 22 37 22 43 22 49 22 55	25 18 27 23 27 27 25 29 21 46 16 47 11 0 4 51	4 59 4 40 4 2 3 6 1 59 0 45 0n29	20 29 20 54 21 18 21 41 22 3 22 24 22 43	0 7 0 0 0s 7 0 13 0 20 0 27 0 33	10 9 10 34 10 59 11 23 11 47 12 11 12 35	2 1 2 2 2 2 2 1 2 1 2 1	23 5 23 11 23 16 23 21 23 25	0 31 0 32 0 33 0 33 0 34	22 37 22 37 22 36 22 36	0 36 0 36 0 36	21 3 21 3 21 2	1 44 1 44	<ul><li>22 54</li><li>22 55</li></ul>	0 24	9 53 1 40	3 36 1	5 10 1 5 10 1	13 10 13 14	12 56 12 57	<ul><li>26 19</li><li>26 17</li></ul>	3 21 3 20	3 11
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T 14 2	23 5	7 22 12 57 17 53 22 0	3 38 4 19 4 47 5 1	23 19 23 35 23 50 24 4 24 17 24 28	0 52 0 58 1 4 1 9	13 44 14 6 14 29 14 51	1 58 1 57		0 36 0 37 0 37 0 38	22 34 22 34 22 33 22 33 22 32 22 32	0 35 0 34 0 34	21 0 20 59 20 59 20 59 20 58 20 58	1 44 1 43 1 43 1 43	22 56 22 57 22 57 22 57 22 58 22 58	0 24 0 24 0 24 0 24	9 58 1 40 9 59 1 40 9 59 1 40 10 0 1 40 10 0 1 40 10 1 1 40	3 35 1. 3 35 1. 3 35 1. 3 35 1. 3 35 1.	5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8	13 22 13 22 13 24 13 26 13 30 13 34	13 5 13 6 13 7 13 8	26 5 26 4 26 3	3 18 3 18 3 17 3 17 3 17 3 17	3 9 3 9 3 9 3 9 3 8 3 8
S 17   2 M18   2 T 19   2	23 16 23 19 23 21 23 23 23 24	27 39 27 0 25 6	4 21 3 43 2 56	24 38 24 47 24 54 25 0 25 5	1 25 1 30	15 54 16 15 16 35	1 55 1 54 1 52 1 51 1 50	24 3 24 4	0 39 0 40 0 40	22 32 22 31 22 31 22 30 22 30	0 34 0 34 0 34	20 57 20 57 20 57 20 56 20 56	1 43 1 43 1 43	22 58 22 58 22 59 22 59 22 59	0 24 0 24 0 24	10 2 1 40 10 2 1 40 10 3 1 41	3 35 1 3 34 1 3 34 1	5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	13 38 13 42 13 45 13 48 13 49	13 12 13 13 13 14	25 58 25 57 25 56	3 17 3 16 3 16 3 16 3 16	3 8 3 8 3 7 3 7
T 21 2 F 22 2 S 23 2	23 25 23 25 23 25 23 25	18 14 13 37 8 25	1 0 0s 3 1 7	25 8 25 10 25 10	1 43 1 47 1 51	17 14 17 33 17 51	1 48 1 47 1 45	24 7 24 7 24 8	0 41 0 42 0 42	22 29 22 29 22 29	0 33 0 33 0 33	20 55 20 55 20 55	1 42 1 42 1 42	23 0 23 0 23 0	0 24 0 24 0 24	10 3 1 41 10 4 1 41 10 4 1 41	3 34 1 3 34 1 3 34 1	5 7 5 6 5 6	13 50 13 51 13 50	13 16 13 17 13 18	25 53 25 51 25 50	3 16 3 16 3 16	3 7 3 7 3 6
M25 2 T 26 2 W27 2 T 28 2 F 29 2	23 18 23 15	2 s 5 8 8 5 0	3 57 4 36 5 1 5 8	25 6	1 58 2 0 2 3 2 5 2 7	18 26 18 43 19 0 19 16 19 31	1 44 1 42 1 40 1 38 1 37 1 35 1 33	24 8 24 8 24 7 24 6 24 5	0 43 0 44 0 44 0 45 0 45	22 28 22 27 22 27 22 26 22 26 22 25	0 33 0 32 0 32 0 32 0 32	20 54 20 54 20 54 20 53 20 53 20 53 20 52	1 42 1 42 1 42 1 41 1 41	23 1 23 1 23 1 23 2 23 2	0 24 0 24 0 24 0 24 0 24	10 5 1 41 10 5 1 41	3 35 1. 3 35 1. 3 35 1. 3 35 1. 3 35 1. 3 35 1.	5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	13 50 13 50 13 50 13 51 13 52 13 54 13 56	13 20 13 21 13 22 13 23 13 24	25 47 25 45 25 44 25 43 25 41	3 16 3 16 3 16 3 16 3 17 3 17 3 17	3 6 3 6 3 6 3 5 3 5 3 5 3 5

Julian Day Number = 2495342.5, Delta T = 103.22 sec Ecliptic obliquity = 23°25'32, Nutation =  $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}24'57$ , Lahiri =  $25^{\circ}31'57$