

# Astrodienst Ephemeris Tables for the year 2129

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 2129 00:00 UT

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Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)મ(	并	Р	r	Ω	Ç	o k	Day
S 1	6 42 51	10 <b>ට</b> 33'34	19 <b>8</b> 59	29°R13	25≈56	18 <b>M</b> .45	8 <b>∺</b> 39	20 <b>≏</b> 58	27°R42	19 <b>M</b> 52	0°R11	28°R43	0 Mg 3	22923	4°R18	S 1
S 2	6 46 48	11°34'42	2П15	28 <b>×</b> 124	26°44	19°23	8°49	21° 1	27 <b>Ω</b> 41	19°53	0 <b>П</b> 11	28€35	29€59	22°30	4817	S 2
M 3	6 50 44	12°35'49	14°22	27°45	27°32	20° 1	9° 0	21° 4	27°39	19°55	0°10	28°26	29°57	22°37	4°16	M 3
T 4	6 54 41	13°36'57	26°23	27°17	28°18	20°40	9°11	21° 7	27°38	19°56	0° 9	28°17	29°53	22°43	4°16	T 4
W 5	6 58 37	14°38'05	89518	26°59	29° 3	21°18	9°23	21°10	27°36	19°58	0° 8	28° 8	29°50	22°50	4°15	W 5
T 6	7 2 34	15°39'13	20° 9	26°D51	29°47	21°56	9°34	21°12	27°34	19°59	0° 7	28° 1	29°47	22°57	4°15	T 6
F 7	7 6 30	16°40'21	1 <b>Q</b> 58	26°52	0 <b>)</b> €31	22°34	9°45	21°15	27°32	20° 1	0° 7	27°56	29°44	23° 3	4°14	F 7
S 8	7 10 27	17°41'29	13°47	27° 1	1°13	23°13	9°57	21°17	27°31	20° 2	0° 6	27°52	29°41	23°10	4°14	S 8
S 9	7 14 24	18°42'36	25°38	27°19	1°54	23°51	10° 8	21°20	27°29	20° 4	0° 5	27°D51	29°38	23°17	4°13	S 9
M10	7 18 20	19°43'44	7 <b>m</b> 34	27°44	2°34	24°29	10°20	21°22	27°27	20° 5	0° 5	27°52	29°34	23°23	4°13	M10
T 11	7 22 17	20°44'52	19°39	28°15	3°12	25° 7	10°32	21°24	27°25	20° 6	0° 4	27°53	29°31	23°30	4°13	T 11
W12	7 26 13	21°46'00	1 <b>≏</b> 57	28°52	3°49	25°45	10°43	21°26	27°23	20° 8	0° 3	27°55	29°28	23°37	4°13	W12
T 13	7 30 10	22°47'08	14°32	2 <u>9</u> °35	4°25	26°24	10°55	21°28	27°21	20° 9	0° 3	27°56	29°25	23°43	4°13	T 13
F 14	7 34 6	23°48'15	27°29	0중22	5° 0	27° 2	11° 7	21°30	27°19	20°10	0° 2	27°R56	29°22	23°50	4°D13	F 14
S 15	7 38 3	24°49'23	10 <b>M</b> .51	1°13	5°33	27°40	11°19	21°31	27°17	20°11	0° 1	27°55	29°18	23°57	4°13	S 15
S 16	7 41 59	25°50'31	24°41	2° 9	6° 4	28°18	11°32	21°33	27°15	20°13	0° 1	27°53	29°15	24° 3	4°13	S 16
M17	7 45 56	26°51'39	8 <b>√</b> 59	3° 7	6°34	28°57	11°44	21°34	27°13	20°14	0° 0	27°49	29°12	24°10	4°13	M17
T 18	7 49 53	27°52'46	23°43	4° 9	7° 2	29°35	11°56	21°36	27°11	20°15	29 <b>8</b> 59	27°44	29° 9	24°17	4°13	T 18
W19	7 53 49	28°53'54	8 <b>국</b> 47	5°14	7°29	0 <b>∡</b> 13	12° 9	21°37	27° 8	20°16	29°59	27°40	29° 6	24°23	4°14	W19
T 20	7 57 46	29°55'01	24° 1	6°21	7°54	0°51	12°21	21°38	27° 6	20°17	29°59	27°36	29° 3	24°30	4°14	T 20
F 21	8 1 42	0≈56'07	9≈17	7°30	8°17	1°29	12°34	21°39	27° 4	20°18	29°58	27°34	28°59	24°37	4°14	F 21
S 22	8 5 39	1°57'13	24°23	8°41	8°38	2° 7	12°47	21°40	27° 2	20°19	29°58	27°D33	28°56	24°44	4°15	S 22
S 23	8 9 3 5	2°58'18	9 <b>)</b> 10	9°54	8°57	2°46	12°59	21°41	26°59	20°20	29°57	27°33	28°53	24°50	4°15	S 23
M24	8 13 32	3°59'22	23°34	11° 9	9°14	3°24	13°12	21°42	26°57	20°21	29°57	27°34	28°50	24°57	4°16	M24
T 25	8 17 28	5° 0'25	7 <b>Υ</b> 31	12°25	9°29	4° 2	13°25	21°42	26°55	20°22	29°56	27°36	28°47	25° 4	4°17	T 25
W26	8 21 25	6° 1'27	21° 0	13°43	9°42	4°40	13°38	21°43	26°52	20°23	29°56	27°37	28°44	25°10	4°17	W26
T 27	8 25 22	7° 2'28	4 <b>8</b> 5	15° 2	9°53	5°18	13°51	21°43	26°50	20°24	29°56	27°R38	28°40	25°17	4°18	T 27
F 28	8 29 18	8° 3'28	16°47	16°22	10° 1	5°56	14° 4	21°44	26°47	20°24	29°55	27°38	28°37	25°24	4°19	F 28
S 29	8 33 15	9° 4'27	29°12	17°44	10° 7	6°34	14°17	21°44	26°45	20°25	29°55	27°37	28°34	25°30	4°20	S 29
S 30	8 37 11	10° 5'25	11 <b>II</b> 22	19° 6	10°11	7°12	14°30	21°R44	26°42	20°26	29°55	27°35	28°31	25°37	4°21	S 30
M31	8 41 8	11≈ 6'22	23耳22	20 <b>궁</b> 30	10°R12	7 <b>.</b> ₹50	14 <b>) (</b> 44	21 <u>₽</u> 44	26₽40	20 <b>M</b> 27	29 <b>8</b> 54	27 <b>Ω</b> 32	28 <b>Ω</b> 28	259644	4822	M31

Day	0	D		ζ	5	ç	)	C	3'	2	+	ŧ	l	)	<del>j(</del>	j	ŧ,	В	n	Ω	ţ	ď	;
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S 1	23 s 0	12n50	5s 4	20s18	3n 7	13 s29	0s39	16 s40	0n45	9 s 2 0	1 s 5	5 s 5 6	2n25	12n58	0n46	16s 2	1n43	6n46 13 s4	2 11n55	11n27	18n27	12n10	0 s50
S 2	22 55	15 35	5 7	20 15	3 10	13 6	0 32	16 51	0 44	9 16	1 5	5 57	2 25	12 59	0 46	16 3	1 43	6 46 13 4	2 11 57	11 28	18 27	12 9	0 50
M 3	22 49			20 14			-		0 44	9 12	1 5	5 58	2 26	-				6 46 13 4		11 29			0 50
T 4	_			20 15		-		17 13	0 43	9 7	1 5	5 59	2 26				-	6 46 13 4		11 30			0 50
W 5 T 6				20 17					0 43	9 3 8 59	1 5	6 0	2 26		0 46	-	-	6 46 13 4 6 46 13 4		11 31 11 32			0 50 0 50
F 7				20 22 20 27		11 32 11 8			0 42 0 42	8 54	1 5	6 0	2 26 2 27		0 46 0 46	-	_	6 46 13 4					0 50
S 8				20 27		10 45		17 54		8 50	1 5	6 2	2 27		0 46	-		6 46 13 4					0 50
S 9	22 7			20 42	2 42		0 27		0 41	8 45	1 5	6 2	2 27		0.46	16 5	1 43	6 46 13 4					0.50
	21 58	-	-	20 42		-		18 14	0 41	8 43	1 5	6 3	2 27		0 46 0 46		_	6 46 13 4	-		-	-	0 50 0 50
	21 49			20 59	2 25	9 36		18 23	0 40	8 36	1 4	6 3	2 28		0 46			6 47 13 4					0 50
1	21 40			21 9	2 16			18 33		8 32	1 4	6 4	2 28					6 47 13 3					0 50
T 13	21 30	2s13	3 48	21 18	2 7	8 51	1 7	18 42	0 39	8 27	1 4	6 4	2 28	13 6	0 46	16 6	1 44	6 47 13 3					0 50
F 14	21 20	6 22	4 30	21 27	1 58	8 28	1 17	18 52	0 38	8 23	1 4	6 5	2 29	13 7	0 46	16 7	1 44	6 47 13 3	9 12 11	11 41	18 22	12 8	0 50
S 15	21 9	10 19	4 59	21 36	1 48	8 6	1 28	19 1	0 38	8 18	1 4	6 5	2 29	13 8	0 46	16 7	1 44	6 47 13 3	9 12 11	11 42	18 22	12 8	0 50
S 16	20 58	13 52	5 13	21 45	1 39	7 44	1 39	19 10	0 37	8 13	1 4	6 5	2 29	13 8	0 46	16 7	1 44	6 47 13 3	8 12 12	11 43	18 21	12 8	0 50
M17		-		21 54	1 29	7 23	-		0 36	8 8	1 4	6 6	2 29	-		16 7	1 44	6 47 13 3	-	_	-	-	0 50
_			4 42		1 20	7 2			0 36	8 4	1 4	6 6		13 10			1 44	6 48 13 3					0 50
1			3 56		1 10	6 41			0 35	7 59	1 4	6 6		13 11	0 46		1 44	6 48 13 3					0 50
T 20				22 15	1 1	6 21			0 35	7 54	1 4	6 6		13 11	0 46		1 44	6 48 13 3					0 50
F 21 S 22	19 56			22 21 22 26	0 52 0 42	-	2 51	19 53	0 34	7 49 7 44	1 3	6 6		13 12 13 13				6 48 13 3 6 48 13 3					0 50 0 50
S 23	19 29	-		22 30	0 33	5 22	-		0 33	7 39	1 3	6 7		13 14				6 48 13 3					0 50
M24 T 25	19 15 19 0			22 33	0 24	5 4	-	20 17 20 25	0 32 0 32	7 34	1 3	6 7	2 31	-				6 49 13 3					0 50
W26				22 35 22 36	0 16 0 7	4 46 4 29		20 23	0 32	7 29 7 24	1 3	6 7	2 32 2 32					6 49 13 3 6 49 13 3	6 12 18				0 50 0 50
T 27	18 30	-		22 36	0 s 1	4 12		20 40	0 30	7 19	1 3	6 6	2 32		0 46			6 49 13 3					0 50
F 28				22 34	0 10	3 57		20 47	0 30	7 14	1 3	6 6		13 18				6 50 13 3					0 51
S 29	17 58	14 49	5 16	22 32	0 17	3 42	4 24	20 55	0 29	7 9	1 3	6 6	2 33	13 19	0 46	16 10	1 44	6 50 13 3					0 51
S 30	17 42	17 4	5 7	22 29	0 25	3 27	4 38	21 2	0 29	7 4	1 3	6 6	2 33	13 20	0 46	16 10	1 44	6 50 13 3	4 12 18	11 59	18 15	12 10	0 51
M31	17 s26	18n31	4 s45	$22\mathrm{s}24$	0 s33	3 s 1 4	4n52	21 s 8	0n28	6 s 5 8	1 s 3	6s 5	2n33	13n21	0n46	16s10	1n45	6n50 13 s3	4 12n19	12n 0	18n14	12n10	0 s 5 1

Julian Day Number = 2498661.5, Delta T = 108.37 sec Ecliptic obliquity =  $23^{\circ}25'12$ , Nutation = - $0^{\circ}00'08$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}32'34$ , Lahiri =  $25^{\circ}39'34$ 

FEBRUARY 2129 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)f(	并	В	n	Ω	Ç	ę,	Day
T 1	8 45 4	12≈ 7'17	59916	21 <b>궁</b> 55	10°R11	8 <b>∡</b> 728	14 <b>) </b> 57	21°R44	26°R37	20 <b>M</b> 27	29°R54	27°R29	28₽24	25950	4 <b>8</b> 23	T 1
W 2	8 49 1	13° 8'12	17° 6	23°20	10 <b>∺</b> 7	9° 6	15°10	21 <b>≏</b> 44	$26\Omega 35$	20°28	29 <b>8</b> 54	$27\Omega 27$	28°21	25°57	4°24	W 2
T 3	8 52 57	14° 9'05	28°55	24°47	10° 0	9°44	15°24	21°43	26°32	20°29	29°54	27°25	28°18	26° 4	4°25	T 3
F 4	8 56 54	15° 9'57	10 <b>Ω</b> 45	26°14	9°51	10°22	15°37	21°43	26°30	20°29	29°54	27°24	28°15	26°10	4°26	F 4
S 5	9 0 51	16°10'49	22°38	27°42	9°40	11° 0	15°51	21°42	26°27	20°30	29°53	27°D23	28°12	26°17	4°27	S 5
S 6	9 4 47	17°11'39	4 <b>m</b> 37	29°11	9°26	11°38	16° 5	21°42	26°25	20°30	29°53	27°23	28° 9	26°24	4°29	S 6
M 7	9 8 44	18°12'28	16°43	0≈41	9°10	12°16	16°18	21°41	26°22	20°31	29°53	27°24	28° 5	26°30	4°30	M 7
T 8	9 12 40	19°13'16	28°58	2°11	8°51	12°54	16°32	21°40	26°19	20°31	29°53	27°25	28° 2	26°37	4°32	T 8
W 9	9 16 37	20°14'03	11 <b>≏</b> 25	3°43	8°30	13°32	16°46	21°39	26°17	20°31	29°53	27°25	27°59	26°44	4°33	W 9
T 10	9 20 33	21°14'48	24° 7	5°15	8° 6	14°10	16°59	21°38	26°14	20°32	29°53	27°26	27°56	26°50	4°35	T 10
F 11	9 24 30	22°15'33	7 <b>M</b> 6	6°48	7°41	14°48	17°13	21°37	26°12	20°32	29°53	27°27	27°53	26°57	4°36	F 11
S 12	9 28 26	23°16'17	20°24	8°22	7°13	15°26	17°27	21°35	26° 9	20°32	29°D53	27°R27	27°50	27° 4	4°38	S 12
S 13	9 32 23	24°17'00	4 <b>₹</b> 5	9°57	6°43	16° 4	17°41	21°34	26° 6	20°33	29°53	27°27	27°46	27°10	4°40	S 13
M14	9 36 20	25°17'43	18° 8	11°32	6°12	16°42	17°55	21°32	26° 4	20°33	29°53	27°27	27°43	27°17	4°41	M14
T 15	9 40 16	26°18'24	2 <b>る</b> 32	13° 8	5°39	17°20	18° 9	21°31	26° 1	20°33	29°53	27°26	27°40	27°24	4°43	T 15
W16	9 44 13	27°19'03	17°16	14°45	5° 5	17°58	18°23	21°29	25°58	20°33	29°53	27°D26	27°37	27°30	4°45	W16
T 17	9 48 9	28°19'42	2≈12	16°23	4°30	18°35	18°37	21°27	25°56	20°34	29°53	27°26	27°34	27°37	4°47	T 17
F 18	9 52 6	29°20'20	17°14	18° 2	3°54	19°13	18°51	21°26	25°53	20°34	29°53	27°26	27°30	27°44	4°49	F 18
S 19	9 56 2	0 <b>∺</b> 20'55	2 <b></b> ₩14	19°42	3°17	19°51	19° 6	21°24	25°51	20°34	29°53	27°R26	27°27	27°50	4°51	S 19
S 20	9 59 59	1°21'30	17° 2	21°23	2°40	20°29	19°20	21°21	25°48	20°R34	29°53	27°26	27°24	27°57	4°53	S 20
M21	10 3 55	2°22'03	1 <b>Υ</b> 32	23° 4	2° 2	21° 6	19°34	21°19	25°45	20°34	29°54	27°26	27°21	28° 3	4°55	M21
T 22	10 7 52	3°22'34	15°38	24°47	1°25	21°44	19°48	21°17	25°43	20°34	29°54	27°25	27°18	28°10	4°57	T 22
W23	10 11 48	4°23'03	29°18	26°30	0°48	22°22	20° 2	21°15	25°40	20°34	29°54	27°24	27°15	28°17	5° 0	W23
T 24	10 15 45	5°23'30	12831	28°14	0°12	22°59	20°17	21°12	25°38	20°33	29°54	27°24	27°11	28°23	5° 2	T 24
F 25	10 19 42	6°23'56	25°20	29°59	29≈36	23°37	20°31	21°10	25°35	20°33	29°54	27°23	27° 8	28°30	5° 4	F 25
S 26	10 23 38	7°24'20	7 <b>Ⅱ</b> 48	1 <b>)</b> €46	29° 2	24°15	20°45	21° 7	25°32	20°33	29°55	27°D23	27° 5	28°37	5° 7	S 26
S 27	10 27 35	8°24'41	19°59	3°33	28°29	24°52	21° 0	21° 4	25°30	20°33	29°55	27°23	27° 2	28°43	5° 9	S 27
M28	10 31 31	9 <b>)</b> 25'01	1958	5 <b>∺</b> 21	27≈57	25 <b>×</b> <sup>7</sup> 30	21 <b>米</b> 14	21 <b>♀</b> 1	$25\Omega 27$	20M 33	29 <b>8</b> 55	$27\Omega 24$	$26\Omega 59$	28950	5 <b>8</b> 11	M28

Day	0	D	ğ	·	ď	4	ħ	)Å(	<del>\f</del>	Р	n	v t	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
T 1	17s 9	19n 9 4s1	0 22 s18 0 s40	3 s 2 5 n 6 2	1 s15 0n27	6s53 1s 3	6s 5 2n34	13n21 0n46	16s10 1n45	6n50 13 s34	12n20 12	2n 1 18n14	12n10 0s51
W 2			5 22 11 0 47	2 50 5 20 2					16 10 1 45	6 51 13 33			12 11 0 51
T 3			1 22 2 0 54						16 10 1 45	6 51 13 33			
F 4	16 16		1 21 53 1 0			6 37 1 3			16 10 1 45	6 51 13 33			
S 5	15 58	13 33 0 2	6 21 42 1 7	2 21 6 1 2	1 40 0 24	6 32 1 2	6 4 2 35	13 25 0 46	16 10 1 45	6 52 13 33	12 22 13	2 5 18 12	12 12 0 51
S 6	15 40	10 26 0n4	0 21 29 1 13	2 14 6 15 2	1 46 0 24	6 27 1 2	6 3 2 35	13 26 0 46	16 11 1 45	6 52 13 32	12 22 13	2 7 18 12	12 12 0 51
M 7	15 22	6 52 1 4	5 21 16 1 18	2 8 6 28 2	1 52 0 23	6 22 1 2	6 3 2 35	13 27 0 46	16 11 1 45	6 52 13 32	12 22 13	2 8 18 11	12 13 0 51
T 8	15 3	2 58 2 4	7 21 1 1 24	2 2 6 41 2	1 58 0 22	6 16 1 2	6 2 2 35	13 28 0 46	16 11 1 45	6 52 13 32	12 22 13	2 9 18 11	12 13 0 51
W 9	14 44		1 20 45 1 29			6 11 1 2		13 29 0 46		6 53 13 31			
T 10	14 24	-	6 20 28 1 34		2 8 0 21	6 5 1 2		13 29 0 46		6 53 13 31			
F 11	14 5		8 20 9 1 39			6 0 1 2			16 11 1 45	6 53 13 31			
S 12	13 45	12 46 5 1	6 19 49 1 43	1 54 7 29 2	2 18 0 19	5 54 1 2	5 59 2 37	13 31 0 47	16 11 1 45	6 54 13 30	12 21 13	2 13 18 9	12 15 0 51
S 13	13 25	15 46 5 1	6 19 28 1 47	1 55 7 40 2	2 23 0 18	5 49 1 2	5 59 2 37	13 32 0 47	16 11 1 45	6 54 13 30	12 21 13	2 14 18 8	12 16 0 51
M14	13 5	17 57 4 5	8 19 5 1 51	1 57 7 50 2	2 28 0 18	5 44 1 2	5 58 2 37	13 33 0 47	16 11 1 45	6 54 13 30	12 21 12	2 15 18 7	12 16 0 51
T 15	12 44	19 3 4 2	0 18 41 1 54			5 38 1 2	5 57 2 37	13 34 0 47	16 11 1 45	6 54 13 29	12 21 12	2 16 18 7	12 17 0 51
			5 18 15 1 57		2 37 0 16				16 11 1 45	6 55 13 29			12 18 0 51
T 17	_		6 17 49 1 59					13 36 0 47		6 55 13 29			12 18 0 51
F 18	11 42	-	6 17 21 2 2			5 21 1 2			16 11 1 46	6 55 13 28			
S 19	11 20	11 5 0s2	7 16 51 2 4	2 23 8 28 2	2 49 0 13	5 16 1 2	5 53 2 38	13 38 0 47	16 11 1 46	6 56 13 28	12 21 12	2 21 18 5	12 19 0 51
S 20	10 59	6 45 1 4	7 16 20 2 5	2 32 8 33 2	2 52 0 13	5 10 1 2	5 52 2 39	13 38 0 47	16 11 1 46	6 56 13 28	12 21 12	2 22 18 4	12 20 0 51
M21	10 37	2 7 2 5	8 15 48 2 6	2 41 8 37 2	2 56 0 12	5 5 1 2	5 51 2 39	13 39 0 47	16 11 1 46	6 56 13 28	12 21 13	2 23 18 4	12 21 0 51
T 22	10 16	2n30 3 5	7 15 15 2 7			4 59 1 2	5 50 2 39	13 40 0 47	16 11 1 46	6 57 13 27			12 21 0 51
W23	9 54		0 14 40 2 7		3 2 0 10			13 41 0 47		6 57 13 27			
T 24			7 14 4 2 7		3 5 0 9	4 48 1 2			16 10 1 46	6 57 13 27			
F 25			7 13 26 2 7		3 8 0 8	4 42 1 2			16 10 1 46	6 58 13 26			12 24 0 51
S 26	8 47	16 27 5 1	2 12 48 2 6	3 38 8 42 2	3 11 0 7	4 37 1 2	5 46 2 40	13 44 0 47	16 10 1 46	6 58 13 26	12 22 13	2 28 18 1	12 24 0 51
S 27	8 25	18 10 4 5	3 12 7 2 4	3 51 8 41 2	3 13 0 6	4 31 1 2	5 44 2 40	13 44 0 47	16 10 1 46	6 59 13 26	12 22 13	2 30 18 0	12 25 0 51
M28	8 s 2	19n 3 4s2	2 11 s26 2 s 2	4s 4 8n38 2	3 s15 On 5	4s25 1s 2	5 s43 2n40	13n45 0n47	16s10 1n46	6n59 13 s25	12n22 12	2n31 18n 0	12n26 0s52

Julian Day Number = 2498692.5, Delta T = 108.42 sec Ecliptic obliquity =  $23^{\circ}25'13$ , Nutation = -0°00'08, out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}32'38$ , Lahiri =  $25^{\circ}39'39$ 

MARCH 2129 00:00 UT

1.1/VIIV	,,, <u>, , , , , , , , , , , , , , , , , </u>	•													00.0	0 0 1
Day	Sid.t	0	D	ğ	φ	♂	4	ħ	)મ(	卉	В	S.	Ω	Ç	ķ	Day
T 1	10 35 28	10 <b>)</b> 25'19	139549	7 <b>)</b> €10	27°R27	26 <b>∡</b> 7	21 <b>米</b> 29	20°R59	25°R25	20°R32	29 <b>8</b> 56	27 <b>Ω</b> 25	26 <b>Ω</b> 56	28957	5 <b>8</b> 14	T 1
W 2	10 39 24	11°25'35	25°37	9° 1	26≈59	26°45	21°43	20 <b>≏</b> 56	25 <b>Ω</b> 22	20 <b>M</b> 32	29°56	27°26	26°52	29° 3	5°16	W 2
T 3	10 43 21	12°25'49	$7\Omega_{26}$	10°52	26°33	27°22	21°57	20°53	25°20	20°32	29°57	27°28	26°49	29°10	5°19	T 3
F 4	10 47 17	13°26'01	19°19	12°44	26° 9	28° 0	22°12	20°49	25°17	20°31	29°57	27°29	26°46	29°17	5°22	F 4
S 5	10 51 14	14°26'11	1 <b>m</b> 19	14°37	25°47	28°37	22°26	20°46	25°15	20°31	29°57	27°R29	26°43	29°23	5°24	S 5
S 6	10 55 11	15°26'20	13°29	16°31	25°27	29°14	22°41	20°43	25°12	20°31	29°58	27°28	26°40	29°30	5°27	S 6
M 7	10 59 7	16°26'26	25°49	18°25	25°10	29°52	22°55	20°39	25°10	20°30	29°58	27°26	26°36	29°37	5°30	M 7
T 8	11 3 4	17°26'31	8 <b>≏</b> 21	20°21	24°56	0 <b>る</b> 29	23°10	20°36	25° 8	20°30	29°59	27°24	26°33	29°43	5°33	T 8
W 9	11 7 0	18°26'34	21° 7	22°17	24°43	1° 6	23°24	20°33	25° 5	20°29	29°59	27°20	26°30	29°50	5°35	W 9
T 10	11 10 57	19°26'35	4M 6	24°13	24°34	1°43	23°39	20°29	25° 3	20°29	29°59	27°17	26°27	29°57	5°38	T 10
F 11	11 14 53	20°26'35	17°18	26°10	24°27	2°21	23°53	20°25	25° 1	20°28	0 II 0	27°14	26°24	0 <b>Ω</b> 3	5°41	F 11
S 12	11 18 50	21°26'33	0 <b>∡</b> 745	28° 8	24°22	2°58	24° 8	20°22	24°58	20°27	0° 1	27°11	26°21	0°10	5°44	S 12
S 13	11 22 46	22°26'29	14°26	0 <b>Υ</b> 5	24°D20	3°35	24°23	20°18	24°56	20°27	0° 2	27°10	26°17	0°17	5°47	S 13
M14	11 26 43	23°26'24	28°21	2° 2	24°20	4°12	24°37	20°14	24°54	20°26	0° 2	27°D10	26°14	0°23	5°50	M14
T 15	11 30 40	24°26'17	12 <b>る</b> 30	3°59	24°22	4°49	24°52	20°10	24°52	20°25	0° 3	27°11	26°11	0°30	5°53	T 15
W16	11 34 36	25°26'09	26°52	5°55	24°27	5°26	25° 6	20° 6	24°49	20°25	0° 3	27°12	26° 8	0°37	5°56	W16
T 17	11 38 33	26°25'59	11≈23	7°50	24°34	6° 3	25°21	20° 2	24°47	20°24	0° 4	27°14	26° 5	0°43	5°59	T 17
F 18	11 42 29	27°25'47	26° 0	9°44	24°44	6°40	25°35	19°58	24°45	20°23	0° 5	27°R14	26° 1	0°50	6° 2	F 18
S 19	11 46 26	28°25'33	10 <b>∺</b> 37	11°36	24°56	7°17	25°50	19°54	24°43	20°22	0° 6	27°14	25°58	0°57	6° 6	S 19
S 20	11 50 22	29°25'18	25° 8	13°25	25° 9	7°54	26° 4	19°50	24°41	20°21	0° 6	27°12	25°55	1° 3	6° 9	S 20
M21	11 54 19	0 <b>Υ</b> 25'00	9 <b>Ƴ</b> 28	15°12	25°25	8°31	26°19	19°45	24°39	20°20	0° 7	27° 8	25°52	1°10	6°12	M21
T 22	11 58 15	1°24'41	23°29	16°56	25°43	9° 8	26°33	19°41	24°37	20°19	0° 8	27° 3	25°49	1°17	6°15	T 22
W23	12 2 12	2°24'19	7 <b>8</b> 10	18°36	26° 2	9°44	26°48	19°37	24°35	20°19	0° 9	26°57	25°46	1°23	6°19	W23
T 24	12 6 8	3°23'55	20°26	20°13	26°24	10°21	27° 2	19°33	24°33	20°18	0° 9	26°51	25°42	1°30	6°22	T 24
F 25	12 10 5	4°23'29	3 <b>Ⅱ</b> 19	21°44	26°47	10°57	27°17	19°28	24°32	20°17	0°10	26°46	25°39	1°37	6°25	F 25
S 26	12 14 2	5°23'01	15°51	23°11	27°12	11°34	27°31	19°24	24°30	20°16	0°11	26°42	25°36	1°43	6°29	S 26
S 27	12 17 58	6°22'30	28° 4	24°32	27°39	12°11	27°46	19°19	24°28	20°15	0°12	26°40	25°33	1°50	6°32	S 27
M28	12 21 55	7°21'58	1095 5	25°48	28° 7	12°47	28° 0	19°15	24°26	20°13	0°13	26°D40	25°30	1°57	6°35	M28
T 29	12 25 51	8°21'23	21°56	26°58	28°37	13°23	28°15	19°10	24°25	20°12	0°14	26°41	25°27	2° 3	6°39	T 29
W30	12 29 48	9°20'45	3 <b>Ω</b> 44	28° 1	29° 8	1 <u>4</u> ° 0	28°29	19° 6	24°23	20°11	0°15	26°42	25°23	2°10	6°42	W30
T 31	12 33 44	10 <b>Y</b> 20'05	15 <b>Ω</b> 34	28 <b>Y</b> 57	29≈41	14 <b>궁</b> 36	28 <b>米</b> 44	19 <b>♀</b> 1	$24\Omega 21$	20 <b>M</b> 10	0 <b>Ⅱ</b> 15	$26\Omega44$	$25\Omega 20$	$2\Omega$ 17	6 <b>8</b> 46	T 31

Day	0	D	ğ	φ	♂	4	ħ	l	)ֈֈ	(	卉	Р		R	U	Ç	ę,	
	decl	decl lat	decl lat	decl lat de	cl lat	decl lat	decl	lat	decl	lat	decl lat	decl la	at	decl	decl	decl	decl lat	
T 1 W 2	7 s39 7 16	19n 4 3 s 3 9 18 15 2 48	10s43 2s 0 9 59 1 57	4s17 8n34 23s 4 30 8 30 23	20 0 3	1	2 5 41	2n41 2 41		0n47 0 46	16s10 1n4e 16 10 1 4e	5 7 0 1	13 25	12 21	12 33	17n59 17 59	12 28 0	) s52
T 3 F 4 S 5	6 30	16 39 1 49 14 18 0 45 11 20 0n21	9 14 1 53 8 28 1 49 7 40 1 45	4 44 8 25 23 4 57 8 19 23 5 11 8 13 23	23 0 1	4 8 1 4 2 1 3 57 1	2 5 39 2 5 38 2 5 36	2 41 2 41 2 41	13 48 13 49 13 49	0 46 0 46 0 46	16 9 1 40	7 0 1	13 24	12 20	12 35	17 58 17 57 17 57	12 29 0	52 52 52 52
S 6 M 7 T 8 W 9	5 44 5 21 4 57 4 34	7 50 1 27 3 58 2 30 0s 8 3 27 4 18 4 14	5 10 1 28				2 5 35 2 5 34 2 5 32 2 5 31	2 42 2 42		0 46 0 46 0 46 0 46	16 9 1 4' 16 9 1 4'	7 7 2 1		12 21 12 22	12 38 12 39		12 32 0 12 33 0	) 52 ) 52 ) 52 ) 52
T 10 F 11 S 12	4 11 3 47 3 23	8 20 4 50 12 1 5 10 15 10 5 14	3 25 1 14 2 32 1 6 1 37 0 57	6 13 7 32 23 6 24 7 22 23 6 35 7 13 23	30 0 5 30 0 6 31 0 7	3 28 1 3 22 1 3 17 1	2 5 29 2 5 28 2 5 26	2 42 2 43 2 43	13 53 13 54 13 55	0 46 0 46 0 46	16 8 1 4' 16 8 1 4' 16 8 1 4'	7 7 3 1 7 7 3 1 7 7 4 1	13 22 13 22 13 22	12 24 12 25 12 26	12 41 12 42 12 44	17 54 17 53 17 53	12 34 0 12 35 0 12 36 0	52 52 52 52
S 13 M14 T 15 W16 T 17 F 18 S 19	2 12 1 49	17 32 5 1 18 55 4 29 19 9 3 42 18 10 2 39 15 58 1 26 12 44 0 7 8 42 1s13	3 55 On 5	6 45 7 3 23 6 55 6 52 23 7 4 6 42 23 7 12 6 31 23 7 20 6 20 23 7 27 6 10 23 7 34 5 59 23	31 0 10 31 0 11 30 0 12 30 0 13 29 0 14	3 5 1 2 59 1 2 54 1 2 48 1 2 42 1	2 5 25 2 5 23 2 5 21 2 5 20 2 5 18 2 5 16 2 5 15	2 43 2 43 2 43 2 43	13 57 13 58 13 59 13 59	0 46 0 46 0 46 0 46 0 46 0 46	16 7 1 4' 16 7 1 4' 16 7 1 4' 16 7 1 4' 16 7 1 4' 16 6 1 4'	7 7 4 1 7 7 5 1 7 7 6 1 7 7 6 1	13 21 13 21 13 21 13 20 13 20	12 27 12 26 12 26 12 25 12 25	12 46 12 47 12 48 12 49 12 50	17 51 17 50	12 38 0 12 39 0 12 40 0 12 41 0 12 42 0	) 52 ) 52 ) 52 ) 52 ) 52 ) 52 ) 52
S 20 M21 T 22 W23 T 24 F 25 S 26	0 14 0n10 0 34 0 57 1 21	4 11 2 27 0n31 3 31 5 5 4 20 9 16 4 53 12 52 5 10 15 44 5 9	5 44 0 29 6 37 0 41 7 28 0 54 8 18 1 6 9 6 1 19	7 40 5 48 23 7 45 5 37 23	28 0 17 27 0 18 26 0 19 24 0 21 23 0 22 21 0 23	2 31 1 2 25 1 2 19 1 2 13 1 2 8 1 2 2 1	2 5 13 2 5 11 2 5 10 2 5 8 2 5 6 2 5 4 2 5 3	2 44 2 44	14 1 14 1 14 2 14 2 14 3 14 4	0 46 0 46 0 46 0 46 0 46 0 46 0 46	16 6 1 4' 16 6 1 4' 16 5 1 4' 16 5 1 4' 16 5 1 4' 16 5 1 4' 16 5 1 4'	7 7 7 1 7 7 7 1 7 7 8 1 7 7 8 1 7 7 8 1 7 7 9 1	13 20 13 19 13 19 13 19 13 18 13 18	12 26 12 28 12 29 12 31 12 33 12 35	12 52 12 53 12 54 12 55 12 56 12 58	17 47 17 47 17 46 17 45 17 45 17 44 17 44	12 44 0 12 45 0 12 46 0 12 47 0 12 48 0 12 49 0	) 52 ) 52 ) 52 ) 52 ) 52 ) 53 ) 53
S 27 M28 T 29 W30 T 31	2 55 3 19	19 16 3 47 18 42 2 58 17 20 2 2	11 17 1 55 11 55 2 6 12 31 2 17 13 3 2 27 13n32 2n37	8 2 4 32 23 8 2 4 21 23 8 2 4 10 23 8 1 4 0 23 7s59 3n50 23 s	16 0 27 13 0 29 11 0 30	1 45 1 1 39 1	2 5 1 3 4 59 3 4 57 3 4 56 3 4 54	2 45 2 45 2 45 2 45 2 n45	14 5 14 6 14 6	0 46 0 46 0 46 0 46 0n46	16 4 1 48	3 7 10 1 3 7 10 1 3 7 11 1	13 17 13 17 13 17	12 37 12 37 12 36	13 1 13 2 13 3	17 43 17 42 17 41 17 41 17n40	12 53 0 12 54 0 12 55 0	) 53 ) 53 ) 53 ) 53 ) 53

Julian Day Number = 2498720.5, Delta T = 108.47 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation = - $0^{\circ}00'09$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}32'42$ , Lahiri =  $25^{\circ}39'43$ 

APRIL 2129 00:00 UT

Day	Sid.t	0	D	ğ	φ	♂ <sup>™</sup>	24	ħ	)f(	并	Р	R	v	Ç	ķ	Day
F 1	12 37 41	11 <b>Y</b> 19'23	27 <b>Ω</b> 31	29 <b>°</b> 47	0 <b>)</b> €15	15 <b>る</b> 12	28 <b>米</b> 58	18°R57	24°R20	20°R 9	0 <b>Д</b> 16	26°R45	25Ω17	2 <b>\Omega</b> 23	6 <b>8</b> 49	F 1
S 2	12 41 37	12°18'39	9 <b>m</b> 38	0 <b>8</b> 30	0°51	15°48	29°12	18 <b>≏</b> 52	24 <b>Ω</b> 18	20 <b>M</b> 8	0°17	26 <b>Ω</b> 44	25°14	2°30	6°53	S 2
S 3	12 45 34	13°17'53	21°58	1° 6	1°27	16°24	29°27	18°47	24°17	20° 7	0°18	26°41	25°11	2°37	6°56	S 3
M 4	12 49 31	14°17'04	4 <b>₽</b> 33	1°34	2° 5	17° 0	29°41	18°43	24°15	20° 5	0°19	26°35	25° 7	2°43	7° 0	M 4
T 5	12 53 27	15°16'14	17°25	1°56	2°44	17°36	29°55	18°38	24°14	20° 4	0°20	26°28	25° 4	2°50	7° 4	T 5
W 6	12 57 24	16°15'21	0 <b>M</b> .34	2°10	3°25	18°12	oΥ 9	18°33	24°13	20° 3	0°21	26°20	25° 1	2°56	7° 7	W 6
T 7	13 1 20	17°14'26	13°57	2°17	4° 6	18°48	0°24	18°29	24°11	20° 2	0°22	26°11	24°58	3° 3	7°11	T 7
F 8	13 5 17	18°13'30	27°32	2°R17	4°48	19°24	0°38	18°24	24°10	20° 0	0°23	26° 3	24°55	3°10	7°15	F 8
S 9	13 9 13	19°12'32	11 <b>~</b> 18	2°10	5°32	20° 0	0°52	18°20	24° 9	19°59	0°24	25°56	24°52	3°16	7°18	S 9
S 10	13 13 10	20°11'32	25°13	1°57	6°16	20°35	1° 6	18°15	24° 8	19°58	0°25	25°51	24°48	3°23	7°22	S 10
M11	13 17 6	21°10'30	9 <b>ට</b> 13	1°38	7° 1	21°11	1°20	18°10	24° 7	19°56	0°26	25°49	24°45	3°30	7°26	M11
T 12	13 21 3	22° 9'26	23°18	1°13	7°47	21°46	1°34	18° 6	24° 6	19°55	0°28	25°D48	24°42	3°36	7°29	T 12
W13	13 25 0	23° 8'21	7≈27	0°44	8°35	22°22	1°48	18° 1	24° 5	19°53	0°29	25°48	24°39	3°43	7°33	W13
T 14	13 28 56	24° 7'14	21°38	0°10	9°22	22°57	2° 2	17°56	24° 4	19°52	0°30	25°R49	24°36	3°50	7°37	T 14
F 15	13 32 53	25° 6'06	5 <b>)</b> 50	29 <b>Y</b> 32	10°11	23°32	2°16	17°52	24° 3	19°51	0°31	25°49	24°32	3°56	7°41	F 15
S 16	13 36 49	26° 4'55	20° 0	28°52	11° 0	24° 7	2°30	17°47	24° 2	19°49	0°32	25°46	24°29	4° 3	7°44	S 16
S 17	13 40 46	27° 3'43	4 <b>Υ</b> 6	28°10	11°50	24°42	2°44	17°43	24° 1	19°48	0°33	25°42	24°26	4°10	7°48	S 17
M18	13 44 42	28° 2'29	18° 3	27°26	12°41	25°17	2°58	17°38	24° 1	19°46	0°34	25°34	24°23	4°16	7°52	M18
T 19	13 48 39	29° 1'13	1 <b>8</b> 47	26°42	13°33	25°52	3°12	17°34	24° 0	19°45	0°36	25°24	24°20	4°23	7°56	T 19
W20	13 52 35	29°59'55	15°14	25°59	14°25	26°27	3°26	17°29	23°59	19°43	0°37	25°13	24°17	4°30	7°59	W20
T 21	13 56 32	0 <b>8</b> 58'35	28°23	25°17	15°18	27° 1	3°39	17°25	23°59	19°42	0°38	25° 2	24°13	4°36	8° 3	T 21
F 22	14 0 29	1°57'13	11 <b>II</b> 12	24°36	16°11	27°36	3°53	17°20	23°58	19°40	0°39	24°52	24°10	4°43	8° 7	F 22
S 23	14 4 25	2°55'49	23°43	23°59	17° 5	28°10	4° 7	17°16	23°58	19°39	0°40	24°44	24° 7	4°50	8°11	S 23
S 24	14 8 22	3°54'23	5956	23°24	17°59	28°45	4°20	17°11	23°57	19°37	0°42	24°38	24° 4	4°56	8°15	S 24
M25	14 12 18	4°52'55	17°56	22°53	18°54	29°19	4°34	17° 7	23°57	19°35	0°43	24°34	24° 1	5° 3	8°19	M25
T 26	14 16 15	5°51'25	29°48	22°26	19°49	29°53	4°47	17° 3	23°57	19°34	0°44	24°33	23°58	5°10	8°22	T 26
W27	14 20 11	6°49'52	11 <b>Ω</b> 37	22° 4	20°45	0≈27	5° 1	16°58	23°56	19°32	0°45	24°D33	23°54	5°16	8°26	W27
T 28	14 24 8	7°48'17	23°27	21°46	21°42	1° 1	5°14	16°54	23°56	19°31	0°47	24°R33	23°51	5°23	8°30	T 28
F 29	14 28 4	8°46'40	5 <b>m</b> 26	21°33	22°39	1°35	5°27	16°50	23°56	19°29	0°48	24°33	23°48	5°29	8°34	F 29
S 30	14 32 1	9845'01	17 <b>m</b> 36	21 <b>Y</b> 25	23 <b>)</b> 36	2≈ 8	5 <b>℃</b> 41	16 <b>≏</b> 46	23 <b>N</b> 56	19 <b>M</b> 28	0 <b>Ⅱ</b> 49	24€31	23 <b>Ω</b> 45	5 <b>Ω</b> 36	8 <b>8</b> 38	S 30

Day	0	D	ğ	Q	♂ <sup>™</sup>	4	ħ	)f(	并	Р	n.	ນ €	, 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
F 1	4n29		13n58 2n45		23 s 6 0 s 33	1 s22 1 s 3			16s 2 1n48	7n12 13s16			1 1
S 2	4 52	9 1 1 9	14 20 2 53			1 17 1 3	4 50 2 45	14 8 0 46	16 2 1 48	7 12 13 16	12 36 13		
S 3	5 15		2 14 39 2 59			1 11 1 3	4 49 2 45			7 13 13 16			
M 4 T 5	5 38	1 6 3 10 3s 9 3 59			22 07 0 07	1 5 1 3 1 0 1 3	4 47 2 45 4 45 2 45			7 13 13 16 7 13 13 16			
W 6	6 23		15 13 3 12	,	22 51 0 40	0 54 1 3		14 10 0 46		7 14 13 15	_		
T 7	6 46	11 14 5 0	15 17 3 13	7 30 2 41	22 48 0 42	0 49 1 3	4 41 2 45	14 10 0 46	16 0 1 48	7 14 13 15	12 47 13	11 17 35	13 4 0 53
F 8	7 8		5 15 17 3 13		22 44 0 43	0 43 1 3		14 10 0 46		7 15 13 15			
S 9	7 31	17 14 4 56	5 15 13 3 12	7 16 2 22	22 41 0 45	0 37 1 3	4 38 2 45	14 11 0 46	15 59 1 48	7 15 13 15	12 52 13	14 17 34	13 6 0 53
S 10		18 53 4 28				0 32 1 3			15 59 1 48	7 15 13 14			
M11			14 55 3 4	,		0 26 1 3		14 11 0 46		7 16 13 14			
T 12 W13			5 14 40 2 58 7 14 23 2 51		22 29 0 50 22 25 0 52	0 21 1 4 0 15 1 4		14 12 0 46 14 12 0 46		7 16 13 14 7 17 13 14		17 17 32 18 17 31	1 1
T 14		13 56 0 22			22 21 0 53	0 10 1 4			15 57 1 48	7 17 13 14			
F 15	9 42	10 12 0s53	13 39 2 31	6 21 1 30	22 17 0 55	0 4 1 4	4 27 2 45	14 13 0 45	15 57 1 48	7 17 13 13			
S 16	10 4	5 53 2 6	13 14 2 19	6 10 1 22	22 12 0 57	0n 1 1 4	4 26 2 45	14 13 0 45	15 56 1 48	7 18 13 13	12 55 13	21 17 29	13 14 0 54
S 17	10 25	1 16 3 10	12 46 2 6	5 58 1 14	22 8 0 59	0 7 1 4	4 24 2 45	14 13 0 45	15 56 1 48	7 18 13 13	12 57 13	22 17 28	13 15 0 54
M18	10 46	3n21 4 1	12 17 1 52			0 12 1 4			15 56 1 48	7 19 13 13			
T 19	11 7		3 11 47 1 36			0 17 1 4	_	14 13 0 45		7 19 13 13		24 17 26	
W20 T 21		11 38 4 59 14 52 5 3	0 11 17 1 21 3 10 46 1 4	5 21 0 51 5 7 0 44	21 54 1 4 21 49 1 6	0 23 1 4 0 28 1 4		14 14 0 45 14 14 0 45	15 55 1 48 15 54 1 48	7 19 13 13 7 20 13 12		25 17 26	
F 22	-	-	10 16 0 47		21 44 1 8	0 33 1 4			15 54 1 48	7 20 13 12			
S 23	-	18 51 4 26			21 39 1 10				15 53 1 48	7 21 13 12			
S 24	12 49	19 29 3 49	9 18 0 14	4 24 0 23	21 34 1 12	0 44 1 5	4 12 2 45	14 14 0 45	15 53 1 48	7 21 13 12	13 18 13	29 17 23	13 23 0 54
M25	13 8	19 13 3 2	8 51 Os 3	4 8 0 16	21 29 1 13	0 49 1 5	4 11 2 45	14 14 0 45	15 53 1 48	7 21 13 12	13 19 13	30 17 22	13 24 0 54
T 26	13 28	18 6 2 8	8 25 0 20	3 53 0 10	21 23 1 15	0 55 1 5	4 9 2 45	14 14 0 45	15 52 1 48	7 22 13 12	13 20 13	31 17 21	13 25 0 55
W27					-	1 0 1 5	4 8 2 45					33 17 20	
T 28	14 6		/		21 13 1 19				15 51 1 48			34 17 19	
F 29 S 30	14 25 14n43				21 7 1 21 21s 2 1s24	1 10 1 5 1n15 1s 5	- I	14 14 0 45 14n14 0n45	15 51 1 48 15 s50 1 n48			35 17 19 n36 17n18	13 29 0 55 13n30 0 s55
3 30	141143	01144 11135	/11 0 1 \$21	2840 US13	218 Z 1824	11113 18 3	48 3 2044	141114 UN43	13830 11148	/1123 13811	131120 13	1/1118	131130 0833

Julian Day Number = 2498751.5, Delta T = 108.52 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation =  $-0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}32'46$ , Lahiri =  $25^{\circ}39'47$ 

MAY 2129 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	¥	Р	₽.	ಬ	Ç	ķ0	Day
S 1	14 35 57	10843'20	0 <b>₾</b> 3	21°D21	24 <b>) (</b> 34	2≈42	5 <b>Υ</b> 54	16°R42	23°D56	19°R26	0Д50	24°R26	23 <b>Ω</b> 42	5 <b>Ω</b> 43	8 <b>8</b> 42	S 1
M 2	14 39 54	11°41'38	12°50	21 <b>Y</b> 23	25°32	3°15	6° 7	16 <b>≏</b> 38	23 <b>£</b> 56	19 <b>M</b> _24	0°52	24 <b>Ω</b> 19	23°38	5°49	8°45	M 2
T 3	14 43 51	12°39'53	25°59	21°29	26°30	3°48	6°20	16°34	23°56	19°23	0°53	24° 9	23°35	5°56	8°49	T 3
W 4	14 47 47	13°38'06	9 <b>™</b> 28	21°41	27°29	4°21	6°33	16°30	23°56	19°21	0°54	23°58	23°32	6° 3	8°53	W 4
T 5	14 51 44	14°36'18	23°15	21°57	28°29	4°54	6°46	16°26	23°56	19°19	0°55	23°46	23°29	6° 9	8°57	T 5
F 6	14 55 40	15°34'27	7 <b>√</b> 17	22°17	29°28	5°27	6°59	16°23	23°56	19°18	0°57	23°35	23°26	6°16	9° 1	F 6
S 7	14 59 37	16°32'36	21°29	22°42	0 <b>Υ</b> 28	6° 0	7°12	16°19	23°57	19°16	0°58	23°25	23°23	6°23	9° 5	S 7
S 8	15 3 33	17°30'43	5 <b>云</b> 46	23°11	1°29	6°32	7°25	16°15	23°57	19°15	0°59	23°18	23°19	6°29	9° 8	S 8
M 9	15 7 30	18°28'48	20° 3	23°44	2°29	7° 4	7°37	16°12	23°57	19°13	1° 1	23°13	23°16	6°36	9°12	M 9
T 10	15 11 27	19°26'52	4≈17	24°21	3°30	7°37	7°50	16° 8	23°58	19°11	1° 2	23°11	23°13	6°43	9°16	T 10
W11	15 15 23	20°24'55	18°26	25° 2	4°32	8° 9	8° 3	16° 5	23°58	19°10	1° 3	23°11	23°10	6°49	9°20	W11
T 12	15 19 20	21°22'56	2 <b>)</b> 29	25°47	5°33	8°41	8°15	16° 1	23°59	19°8	1° 5	23°11	23° 7	6°56	9°24	T 12
F 13	15 23 16	22°20'56	16°25	26°35	6°35	9°12	8°27	15°58	23°59	19° 6	1° 6	23°10	23° 4	7° 3	9°27	F 13
S 14	15 27 13	23°18'55	0 <b>Υ</b> 14	27°27	7°37	9°44	8°40	15°55	24° 0	19° 5	1° 7	23° 7	23° 0	7° 9	9°31	S 14
S 15	15 31 9	24°16'52	13°55	28°22	8°40	10°15	8°52	15°52	24° 1	19° 3	1° 9	23° 1	22°57	7°16	9°35	S 15
M16	15 35 6	25°14'48	27°27	29°20	9°42	10°46	9° 4	15°49	24° 2	19° 2	1°10	22°52	22°54	7°23	9°39	M16
T 17	15 39 2	26°12'43	10847	0821	10°45	11°17	9°16	15°46	24° 2	19° 0	1°11	22°41	22°51	7°29	9°42	T 17
W18	15 42 59	27°10'36	23°54	1°25	11°49	11°48	9°28	15°43	24° 3	18°58	1°13	22°28	22°48	7°36	9°46	W18
T 19	15 46 55	28° 8'28	6∏47	2°32	12°52	12°18	9°40	15°40	24° 4	18°57	1°14	22°15	22°44	7°43	9°50	T 19
F 20	15 50 52	29° 6'19	19°25	3°42	13°56	12°48	9°52	15°37	24° 5	18°55	1°16	22° 3	22°41	7°49	9°53	F 20
S 21	15 54 49	0 <b>Ⅱ</b> 4'08	19947	4°54	14°59	13°18	10° 4	15°34	24° 6	18°53	1°17	21°53	22°38	7°56	9°57	S 21
S 22	15 58 45	1° 1'55	13°55	6° 9	16° 4	13°48	10°16	15°32	24° 7	18°52	1°18	21°45	22°35	8° 2	10° 1	S 22
M23	16 2 42	1°59'41	25°53	7°27	17° 8	14°18	10°27	15°29	24° 8	18°50	1°20	21°41	22°32	8° 9	10° 4	M23
T 24	16 638	2°57'25	7 <b>Ω</b> 44	8°47	18°12	14°47	10°39	15°27	24°10	18°49	1°21	21°38	22°29	8°16	10° 8	T 24
W25	16 10 35	3°55'08	19°31	10°10	19°17	15°16	10°50	15°25	24°11	18°47	1°22	21°D37	22°25	8°22	10°12	W25
T 26	16 14 31	4°52'49	1 <b>m</b> ) 21	11°35	20°22	15°45	11° 2	15°22	24°12	18°46	1°24	21°R37	22°22	8°29	10°15	T 26
F 27	16 18 28	5°50'29	13°19	13° 3	21°27	16°14	11°13	15°20	24°13	18°44	1°25	21°37	22°19	8°36	10°19	F 27
S 28	16 22 24	6°48'07	25°30	14°33	22°32	16°42	11°24	15°18	24°15	18°43	1°26	21°36	22°16	8°42	10°22	S 28
S 29	16 26 21	7°45'43	8 <b>亚</b> 0	16° 6	23°37	17°10	11°35	15°16	24°16	18°41	1°28	21°32	22°13	8°49	10°26	S 29
M30	16 30 18	8°43'18	20°52	17°41	24°43	17°38	11°46	15°14	24°18	18°39	1°29	21°27	22°10	8°56	10°29	M30
T 31	16 34 14	9∏40′52	4M 8	19 <b>8</b> 18	25 <b>Ƴ</b> 48	18 <b>≈</b> 5	11 <b>Y</b> 57	15 <b>≏</b> 13	24 <b>Ω</b> 19	18 <b>M</b> .38	1 <b>II</b> 30	21 <b>\O</b> 18	22 <b>N</b> 6	9 <b>N</b> 2	10833	T 31

Day	0	D	ğ	·	♂	4	ħ	)Å(	卉	Р	v v	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
S 1 M 2	15n 2 15 20	2n41 2n57 1s35 3 47	6n52 1s34 6 41 1 47			1n20 1s 5 1 25 1 6	4s 2 2n44 4 0 2 44				13n22 13n37 13 24 13 38		
T 3 W 4	15 38 15 55	5 54 4 26 10 1 4 51	6 32 1 59 6 26 2 10					14 14 0 45 14 14 0 45	15 49 1 48 15 49 1 49		13 28 13 39 13 31 13 40		
T 5		13 43 5 1	6 23 2 20			1 36 1 6 1 41 1 6		14 14 0 45 14 14 0 45			13 35 13 40		
F 6 S 7		16 42 4 52 18 43 4 26				1 46 1 6 1 50 1 6		14 14 0 45 14 14 0 45	15 48 1 49 15 47 1 49		13 39 13 42 13 42 13 43		
S 8		19 35 3 43				1 55 1 6			15 47 1 49		13 45 13 44		
M 9 T 10	-, -,	19 12 2 46 17 35 1 38		· ·	20 9 1 43 20 3 1 46	-			15 46 1 49 15 46 1 49		13 46 13 45 13 47 13 46		
		14 53 0 25			19 57 1 48	2 10 1 7			15 46 1 49		13 47 13 47		13 43 0 56
T 12 F 13	18 6 18 21	11 21 0s49 7 11 2 0			19 51 1 50 19 45 1 53	2 15 1 7 2 19 1 7			15 45 1 49 15 45 1 49		13 47 13 48 13 47 13 49		13 44 0 56 13 45 0 56
S 14	18 35	2 42 3 2	7 33 3 13	1 45 1 23	19 39 1 55	2 24 1 7	3 46 2 42	14 13 0 44	15 44 1 49	7 28 13 10	13 48 13 50	17 6	13 46 0 56
S 15	18 50	1n53 3 54			19 33 1 58	2 29 1 7		-	15 44 1 49		13 50 13 51		13 47 0 56
M16 T 17	19 4 19 17	6 19 4 32 10 23 4 54			19 27 2 0 19 21 2 3	2 34 1 7 2 38 1 8	_	14 12 0 44 14 12 0 44			13 53 13 52 13 57 13 53		13 48 0 56 13 49 0 56
W18		13 53 5 0	0 00 0		19 15 2 5	2 43 1 8		14 11 0 44		7 29 13 9			13 50 0 56
T 19 F 20	19 44 19 57				19 9 2 8 19 3 2 11	2 47 1 8 2 52 1 8		_	15 42 1 48 15 42 1 48		14 5 13 55 14 9 13 56		13 51 0 56 13 52 0 57
		19 33 3 52			-	2 56 1 8		-	15 41 1 48		14 12 13 58		13 54 0 57
	20 21		10 35 3 9		18 50 2 16	-			15 41 1 48		14 15 13 59		
	20 33 20 44				18 44 2 19 18 38 2 22	3 5 1 9 3 9 1 9	3 37 2 41 3 37 2 40		15 40 1 48 15 40 1 48			16 59 16 58	
	20 55	-			18 33 2 24	3 14 1 9	3 36 2 40		15 40 1 48		· ·	16 57	
-	21 6		12 35 2 51		18 27 2 27	3 18 1 9	3 35 2 40		15 39 1 48			16 56	1 1
	21 16 21 26	8 17 1 53 4 23 2 50	13 7 2 46 13 39 2 39		18 21 2 30 18 15 2 33	3 22 1 9 3 26 1 9	3 35 2 40 3 34 2 39		15 39 1 48 15 38 1 48		14 17 14 4 14 18 14 5	16 55 16 54	
	21 35	0 12 3 40	14 12 2 32		18 9 2 36			14 7 0 44	15 38 1 48		14 19 14 6		1 1
	21 44 21n53	4s 6 4 21 8s21 4n49	14 46 2 25 15n20 2s17		18 3 2 39 17 s58 2 s42	3 35 1 10 3n39 1 s10	3 33 2 39 3 s33 2n39		15 38 1 48 15 s 37 1 n 48		14 21 14 7 14n23 14n 8	10 32	

Julian Day Number = 2498781.5, Delta T = 108.56 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation = - $0^{\circ}00'12$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}32'50$ , Lahiri =  $25^{\circ}39'51$ 

JUNE 2129 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	并	В	n	v	Ç	Ŗ	Day
W 1	16 38 11	10∏38'24	17 <b>M</b> 50	20 <b>8</b> 58	26 <b>Y</b> 54	18≈32	12 <b>°</b> 7	15°R11	24 <b>\O</b> 21	18°R37	1 <b>II</b> 32	21°R 8	22 <b>N</b> 3	9Ω9	10 <b>8</b> 36	W 1
T 2	16 42 7	11°35'56	1 <b>₹</b> 56	22°40	28° 0	18°59	12°18	15 <b>♀</b> 9	24°22	18 <b>M</b> .35	1°33	$20\Omega58$	22° 0	9°16	10°40	T 2
F 3	16 46 4	12°33'26	16°20	24°24	29° 6	19°26	12°29	15° 8	24°24	18°34	1°34	20°48	21°57	9°22	10°43	F 3
S 4	16 50 0	13°30'55	0 <b>궁</b> 56	26°11	0813	19°52	12°39	15° 7	24°26	18°32	1°36	20°39	21°54	9°29	10°46	S 4
S 5	16 53 57	14°28'24	15°38	28° 0	1°19	20°18	12°49	15° 5	24°28	18°31	1°37	20°33	21°50	9°36	10°50	S 5
M 6	16 57 54	15°25'51	0≈18	29°52	2°26	20°44	13° 0	15° 4	24°29	18°29	1°38	20°29	21°47	9°42	10°53	M 6
T 7	17 1 50	16°23'18	14°50	1 <b>II</b> 46	3°32	21° 9	13°10	15° 3	24°31	18°28	1°40	20°D27	21°44	9°49	10°56	T 7
W 8	17 5 47	17°20'44	29°11	3°42	4°39	21°34	13°20	15° 2	24°33	18°26	1°41	20°27	21°41	9°55	11° 0	W 8
T 9	17 9 43	18°18'09	13 <b>米</b> 18	5°40	5°46	21°59	13°30	15° 1	24°35	18°25	1°42	20°R28	21°38	10° 2	11° 3	T 9
F 10	17 13 40	19°15'34	27°10	7°40	6°53	22°23	13°39	15° 0	24°37	18°24	1°44	20°28	21°35	10° 9	11° 6	F 10
S 11	17 17 36	20°12'58	10 <b>℃</b> 48	9°43	8° 1	22°47	13°49	15° 0	24°39	18°22	1°45	20°26	21°31	10°15	11° 9	S 11
S 12	17 21 33	21°10'21	24°12	11°47	9° 8	23°11	13°59	14°59	24°41	18°21	1°46	20°22	21°28	10°22	11°12	S 12
M13	17 25 29	22° 7'44	7 <b>8</b> 24	13°53	10°15	23°34	14° 8	14°59	24°43	18°20	1°48	20°15	21°25	10°29	11°16	M13
T 14	17 29 26	23° 5'07	20°23	16° 0	11°23	23°56	14°17	14°58	24°46	18°19	1°49	20° 7	21°22	10°35	11°19	T 14
W15	17 33 23	24° 2'29	3 <b>II</b> 9	18° 9	12°31	24°19	14°26	14°58	24°48	18°17	1°50	19°57	21°19	10°42	11°22	W15
T 16	17 37 19	24°59'50	15°43	20°19	13°39	24°40	14°35	14°58	24°50	18°16	1°51	19°47	21°16	10°49	11°25	T 16
F 17	17 41 16	25°57'11	28° 5	22°30	14°46	25° 2	14°44	14°D58	24°52	18°15	1°53	19°38	21°12	10°55	11°28	F 17
S 18	17 45 12	26°54'31	109915	24°42	15°54	25°23	14°53	14°58	24°55	18°14	1°54	19°30	21° 9	11° 2	11°31	S 18
S 19	17 49 9	27°51'51	22°16	26°54	17° 3	25°43	15° 2	14°58	24°57	18°12	1°55	19°25	21° 6	11° 9	11°34	S 19
M20	17 53 5	28°49'10	4 <b>Ω</b> 9	29° 6	18°11	26° 3	15°10	14°58	25° 0	18°11	1°56	19°21	21° 3	11°15	11°37	M20
T 21	17 57 2	29°46'28	15°57	19917	19°19	26°23	15°19	14°58	25° 2	18°10	1°58	19°D20	21° 0	11°22	11°39	T 21
W22	18 0 58	09543'45	27°43	3°28	20°28	26°42	15°27	14°59	25° 4	18° 9	1°59	19°20	20°56	11°29	11°42	W22
T 23	18 4 55	1°41'01	9 <b>m</b> 33	5°39	21°36	27° 0	15°35	14°59	25° 7	18° 8	2° 0	19°21	20°53	11°35	11°45	T 23
F 24	18 8 52	2°38'17	21°30	7°48	22°45	27°18	15°43	15° 0	25°10	18° 7	2° 1	19°23	20°50	11°42	11°48	F 24
S 25	18 12 48	3°35'32	3 <b>≏</b> 41	9°57	23°53	27°35	15°51	15° 0	25°12	18° 6	2° 2	19°R23	20°47	11°48	11°50	S 25
S 26	18 16 45	4°32'47	16° 9	12° 4	25° 2	27°52	15°58	15° 1	25°15	18° 5	2° 4	19°22	20°44	11°55	11°53	S 26
M27	18 20 41	5°30'01	28°59	14° 9	26°11	28° 9	16° 6	15° 2	25°18	18° 4	2° 5	19°20	20°41	12° 2	11°56	M27
T 28	18 24 38	6°27'14	12 <b>M</b> .16	16°13	27°20	28°24	16°13	15° 3	25°20	18° 3	2° 6	19°16	20°37	12° 8	11°58	T 28
W29	18 28 34	7°24'27	26° 1	18°15	28°29	28°40	16°21	15° 4	25°23	18° 2	2° 7	19°10	20°34	12°15	12° 1	W29
T 30	18 32 31	89521'39	10 <b>×</b> 12	209515	29 <b>8</b> 38	28≈54	16 <b>Y</b> 28	15 <b>♀</b> 5	$25\Omega_{26}$	18 <b>M</b> 1	2 <b>I</b> I 8	$19\Omega$ 4	$20\Omega 31$	$12\Omega 22$	128 3	T 30

Day	0	D	ğ	Q	ð	4	ħ	)Å(	卉	Р	v v	Ç	ķ
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl dec	el decl	decl lat
W 1 T 2 F 3 S 4		15 40 4 57 18 11 4 34		0 8 42 2 12 1 9 4 2 13		3n43 1s10 3 47 1 10 3 51 1 11 3 54 1 11	3 s32 2n39 3 32 2 38 3 31 2 38 3 31 2 38	14 4 0 44	15 36 1 48 15 36 1 48	7 34 13 9	14n26 14n 14 30 14 1 14 33 14 1 14 36 14 1	0 16 50 1 16 49	14 7 0 58
S 5 M 6 T 7 W 8	22 31 22 37 22 44 22 49	19 37 2 54 18 21 1 45 15 54 0 30 12 29 0s46	18 12 1 3 5 18 46 1 2 19 20 1 1 5 19 53 1	2 9 48 2 15 2 10 10 2 16 1 10 32 2 17 1 10 54 2 18	17 30 2 57 17 25 3 0 17 20 3 4 17 15 3 7	3 58 1 11 4 2 1 11 4 6 1 11 4 9 1 12	3 31 2 38 3 31 2 37 3 30 2 37 3 30 2 37	14 3 0 44 14 2 0 44 14 1 0 44 14 1 0 44	15 35 1 48 15 35 1 48 15 35 1 48 15 34 1 48	7 34 13 9 7 34 13 9 7 35 13 9 7 35 13 9	14 38 14 1 14 39 14 1 14 40 14 1 14 39 14 1	3 16 47 4 16 46 5 16 45 6 16 44	14 9 0 58 14 9 0 58 14 10 0 58 14 11 0 58
T 9 F 10 S 11 S 12	22 54 22 59 23 4	3 56 3 3 0n39 3 56	21 26 0 2	9 11 37 2 19 8 11 58 2 19	17 5 3 14 17 1 3 17	4 13 1 12 4 17 1 12 4 20 1 12		13 59 0 43 13 59 0 43	15 34 1 48 15 34 1 48 15 33 1 48	7 35 13 9 7 35 13 9	14 39 14 1 14 39 14 1 14 40 14 1	8 16 42 9 16 41	14 13 0 59 14 14 0 59
M13 T 14 W15	23 17	9 16 4 58 12 55 5 5 15 54 4 57	3 22 21 0 5 22 46 0n 7 23 9 0 1	5 13 1 2 20 5 13 22 2 20	16 52 3 24 16 47 3 27 16 43 3 31	4 24 1 12 4 27 1 13 4 31 1 13 4 34 1 13	3 30 2 36 3 30 2 35 3 30 2 35	13 57 0 43 13 56 0 43 13 56 0 43	15 32 1 48	7 36 13 10 7 36 13 10 7 36 13 10	14 41 14 2 14 43 14 2 14 46 14 2 14 49 14 2	11 16 39 12 16 38 13 16 37	14 16 0 59 14 17 0 59 14 17 0 59
T 16 F 17 S 18	23 23	19 24 4 0 19 48 3 14	24 4 0 4	6 14 2 2 19 5 14 22 2 19		4 37 1 13 4 40 1 14 4 44 1 14	3 31 2 35 3 31 2 34	13 53 0 43	15 31 1 48 15 31 1 48	7 36 13 10 7 37 13 10		16 35 16 35	14 19 0 59 14 20 1 0
S 19 M20 T 21 W22	23 25 23 25 23 25	17 53 1 21 15 45 0 18 12 58 0n45	3 24 36 1 1 5 24 41 1 1	3 15 1 2 18 1 15 21 2 17 9 15 39 2 16	16 25 3 49 16 21 3 53 16 18 3 56		3 31 2 34 3 32 2 34 3 32 2 33	13 52 0 43 13 51 0 43 13 50 0 43	15 30 1 48 15 30 1 48	7 37 13 10 7 37 13 10 7 37 13 10 7 37 13 10	15 0 14 2 15 1 14 2 15 1 14 3	16 33 16 32 16 31	14 21 1 0 14 22 1 0 14 23 1 0
T 23 F 24 S 25	23 25 23 24 23 22	5 54 2 45 1 52 3 37	7 24 44 1 2 5 24 43 1 3 7 24 40 1 3	2 16 16 2 15 7 16 34 2 14	16 13 4 4 16 10 4 8	4 59 1 15 5 2 1 15 5 4 1 15	3 33 2 33 3 34 2 33	13 48 0 43 13 47 0 43	15 29 1 47	7 37 13 10 7 37 13 10 7 37 13 11	15 0 14 3 15 0 14 3	11 16 30 16 29 16 28	14 24 1 0 14 25 1 0
S 26 M27 T 28 W29 T 30	23 21 23 18 23 16 23 13 23n 9	6 34 4 51 10 37 5 8 14 15 5 8		6 17 9 2 11 9 17 26 2 10	16 6 4 15 16 4 4 19 16 2 4 23	5 7 1 16 5 10 1 16 5 12 1 16 5 15 1 16 5n17 1s17	3 35 2 32 3 35 2 32 3 36 2 32	13 45 0 43 13 44 0 43 13 43 0 43		7 38 13 11 7 38 13 11 7 38 13 11 7 38 13 11 7 38 13 11 7n38 13 s11	15 1 14 3 15 2 14 3 15 4 14 3	34 16 27 35 16 26 36 16 25 37 16 24 38 16n23	14 26 1 1 14 27 1 1 14 28 1 1

 $\label{eq:Julian Day Number = 2498812.5, Delta T = 108.61 sec} \\ Ecliptic obliquity = 23°25'13, Nutation = -0°00'12, out-of-bounds declination in red \\ Ayanamsha: Fagan/Bradley = 26°32'55, Lahiri = 25°39'55 \\ \\$ 

JULY 2129 00:00 UT

Day	Sid.t	0	)	ğ	φ	ð	4	ħ	)ф(	并	Р	S.	v	Ç	ķ	Day
F 1	18 36 27	99518'51	24 <b>∡</b> 746	229514	0 <b>Ц</b> 47	29≈ 8	16 <b>Y</b> 35	15 <b>♀</b> 7	25 <b>Ω</b> 29	18°R 0	2П 9	18°R58	20⋒28	12 <b>Ω</b> 28	128 6	F 1
S 2	18 40 24	10°16'03	9 <b>궁</b> 38	24°10	1°57	29°22	16°41	15° 8	25°32	17 <b>M</b> 59	2°10	18 <b>N</b> 53	20°25	12°35	12° 8	S 2
S 3	18 44 21	11°13'15	24°39	26° 4	3° 6	29°35	16°48	15°10	25°34	17°59	2°12	18°50	20°22	12°42	12°11	S 3
M 4	18 48 17	12°10'26	9≈40	27°57	4°15	29°47	16°55	15°11	25°37	17°58	2°13	18°48	20°18	12°48	12°13	M 4
T 5	18 52 14	13° 7'38	24°33	29°47	5°25	29°58	17° 1	15°13	25°40	17°57	2°14	18°D48	20°15	12°55	12°15	T 5
W 6	18 56 10	14° 4'50	9 <b>∺</b> 12	1 <b>Ω</b> 35	6°35	0 <b>∺</b> 9	17° 7	15°15	25°43	17°56	2°15	18°49	20°12	13° 2	12°17	W 6
T 7	19 0 7	15° 2'01	23°31	3°21	7°44	0°19	17°13	15°17	25°46	17°55	2°16	18°50	20° 9	13° 8	12°20	T 7
F 8	19 4 3	15°59'13	7 <b>Ƴ</b> 30	5° 5	8°54	0°29	17°19	15°19	25°49	17°55	2°17	18°51	20° 6	13°15	12°22	F 8
S 9	19 8 0	16°56'26	21° 8	6°47	10° 4	0°38	17°25	15°21	25°53	17°54	2°18	18°R52	20° 2	13°22	12°24	S 9
S 10	19 11 56	17°53'39	4826	8°27	11°14	0°46	17°30	15°23	25°56	17°53	2°19	18°50	19°59	13°28	12°26	S 10
M11	19 15 53	18°50'52	17°26	10° 5	12°24	0°53	17°35	15°25	25°59	17°53	2°20	18°48	19°56	13°35	12°28	M11
T 12	19 19 50	19°48'05	0 <b>Π</b> 9	11°40	13°34	1° 0	17°41	15°27	26° 2	17°52	2°21	18°44	19°53	13°41	12°30	T 12
W13	19 23 46	20°45'19	12°39	13°14	14°44	1° 6	17°46	15°30	26° 5	17°52	2°22	18°40	19°50	13°48	12°32	W13
T 14	19 27 43	21°42'34	24°57	14°45	15°54	1°11	17°51	15°32	26° 8	17°51	2°23	18°35	19°47	13°55	12°34	T 14
F 15	19 31 39	22°39'48	7 <b>95</b> 5	16°15	17° 4	1°15	17°55	15°35	26°12	17°51	2°24	18°31	19°43	14° 1	12°36	F 15
S 16	19 35 36	23°37'03	19° 4	17°42	18°15	1°19	18° 0	15°38	26°15	17°50	2°25	18°28	19°40	14° 8	12°37	S 16
S 17	19 39 32	24°34'19	0 <b>Ω</b> 57	19° 7	19°25	1°22	18° 4	15°41	26°18	17°50	2°26	18°26	19°37	14°15	12°39	S 17
M18	19 43 29	25°31'34	12°46	20°30	20°36	1°24	18° 8	15°44	26°22	17°49	2°26	18°D25	19°34	14°21	12°41	M18
T 19	19 47 25	26°28'50	24°32	21°51	21°46	1°25	18°12	15°47	26°25	17°49	2°27	18°25	19°31	14°28	12°42	T 19
W20	19 51 22	27°26'06	6Mp20	23° 9	22°57	1°R26	18°16	15°50	26°28	17°49	2°28	18°25	19°27	14°35	12°44	W20
T 21	19 55 19	28°23'22	18°11	24°25	24° 8	1°25	18°19	15°53	26°32	17°48	2°29	18°27	19°24	14°41	12°46	T 21
F 22	19 59 15	29°20'39	0 <b>ჲ</b> 10	25°39	25°18	1°24	18°23	15°56	26°35	17°48	2°30	18°28	19°21	14°48	12°47	F 22
S 23	20 3 12	0 <b>Ω</b> 17'55	12°21	26°50	26°29	1°23	18°26	15°59	26°38	17°48	2°31	18°30	19°18	14°55	12°48	S 23
S 24	20 7 8	1°15'12	24°48	27°59	27°40	1°20	18°29	16° 3	26°42	17°48	2°31	18°30	19°15	15° 1	12°50	S 24
M25	20 11 5	2°12'30	7 <b>M</b> .36	29° 5	28°51	1°17	18°32	16° 6	26°45	17°48	2°32	18°R30	19°12	15° 8	12°51	M25
T 26	20 15 1	3° 9'47	20°48	0 <b>m</b> 9	0ණ 2	1°13	18°35	16°10	26°49	17°47	2°33	18°30	19° 8	15°15	12°52	T 26
W27	20 18 58	4° 7'05	4 <b>₹</b> 26	1° 9	1°13	1° 8	18°37	16°14	26°52	17°47	2°34	18°29	19° 5	15°21	12°54	W27
T 28	20 22 54	5° 4'23	1 <u>8</u> °32	2° 7	2°24	1° 2	18°39	16°17	26°56	17°47	2°34	18°27	19° 2	15°28	12°55	T 28
F 29	20 26 51	6° 1'42	3ਰ 4	3° 2	3°35	0°56	18°41	16°21	26°59	17°47	2°35	18°25	18°59	15°34	12°56	F 29
S 30	20 30 48	6°59'01	17°57	3°54	4°46	0°49	18°43	16°25	27° 3	17°D47	2°36	18°24	18°56	15°41	12°57	S 30
S 31	20 34 44	7 <b>Ω</b> 56'21	3≈ 3	4 Mp 42	5 <b>9</b> 58	0 <b>)</b> €41	18 <b>Y</b> 45	16 <b>≏</b> 29	27 <b>N</b> 7	17 <b>M</b> 47	2Д36	18 <b>Ω</b> 23	18 <b>Ω</b> 53	15 <b>Ω</b> 48	12 <b>8</b> 58	S 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 dec	l decl	decl lat
F 1 S 2	23n 6 23 1	19s 7 4n12 19 48 3 1			16s 0 4s31 15 59 4 35	5n20 1s17 5 22 1 17			15 s28 1 n47 15 28 1 47	7n38 13 s11 7 38 13 11	15n 7 14n3 15 9 14 4		
S 3 M 4 T 5 W 6 T 7 F 8 S 9 S 10 M11 T 12 W13	22 57 22 52 22 46 22 41 22 34 22 28 22 21 22 13 22 6 21 58 21 49	17 1 0 50 13 49 0s3 9 48 1 44 5 18 2 50 0 38 3 50 3n57 4 30 8 13 5 60 12 0 5 10 15 10 5 60	0 22 24 1 1 2 1 5 9 1 2 1 5 9 1 2 2 1 5 9 1 2 2 1 3 3 1 4 4 5 2 2 3 8 1 4 5 2 2 3 8 1 4 5 1 2 1 8 1 9 1 8 1 1 2 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	53	15 57 4 43 15 57 4 47 15 57 4 51 15 57 4 55 15 57 4 59 15 58 5 3 15 59 5 7 16 0 5 11 16 1 5 15	5 24 1 17 5 27 1 18 5 29 1 18 5 31 1 18 5 33 1 18 5 35 1 19 5 37 1 19 5 39 1 19 5 41 1 19 5 42 1 20 5 44 1 20	3 40 2 30 3 41 2 30 3 42 2 30 3 43 2 30 3 44 2 29 3 45 2 29 3 46 2 29 3 47 2 29 3 48 2 28	13 38 0 43 13 37 0 43 13 36 0 43 13 35 0 43 13 34 0 43 13 33 0 43 13 32 0 43	15 27 1 47 15 26 1 47 15 26 1 47	7 38 13 12 7 38 13 13 7 38 13 13 7 38 13 13	15 10 14 4 15 11 14 4 15 11 14 4 15 10 14 4 15 11 14 4 15 12 14 5 15 13 14 5	2 16 19 3 16 17 4 16 16 5 16 15 6 16 14 7 16 13 8 16 12 9 16 11 0 16 10	14 31 1 2 14 31 1 2 14 32 1 2 14 33 1 2 14 33 1 2 14 34 1 2 14 34 1 2 14 35 1 2
_		19 46 3 28	16 55 1	8 21 1 1 40 1 21 10 1 38 53 21 19 1 35	16 7 5 27	5 46 1 20 5 47 1 20 5 49 1 21	3 51 2 28		15 26 1 46 15 26 1 46 15 26 1 46	7 38 13 13	15 15 14 5 15 16 14 5 15 17 14 5	3 16 7	14 36 1 3 14 36 1 3 14 37 1 3
S 17 M18 T 19 W20 T 21 F 22 S 23	21 1 20 50	16 28 0 3 13 52 0n3- 10 42 1 3' 7 5 2 3' 3 10 3 3	1 15 13 0 1 4 14 38 0 2 7 14 4 0 7 13 30 0 1 12 56 0s	36 21 35 1 30 27 21 42 1 28 18 21 49 1 25 8 21 55 1 23 2 22 0 1 20	16 18 5 43 16 21 5 47 16 25 5 50		3 55 2 27 3 57 2 27 3 58 2 27 4 0 2 26 4 1 2 26	13 24 0 43 13 23 0 43 13 22 0 42 13 21 0 42 13 20 0 42 13 19 0 42 13 17 0 42	15 26 1 46 15 26 1 46 15 26 1 46 15 26 1 46	7 38 13 14 7 38 13 14 7 38 13 14		6 16 4 7 16 3 8 16 2	14 37 1 3 14 38 1 4 14 38 1 4 14 39 1 4 14 39 1 4
S 24 M25 T 26 W27 T 28 F 29 S 30 S 31	18 31	9 7 5 1 12 51 5 1 16 1 5 3	1 11 15 0 2 7 10 42 0 4 5 10 10 0 3 4 9 38 1 5 9 8 1 2 8 38 1	34 22 13 1 12 46 22 16 1 9 57 22 19 1 6 9 22 21 1 3 21 22 22 1 1 33 22 22 0 58	16 46 6 8 16 51 6 12 16 56 6 15 17 1 6 18	5 58 1 23 5 58 1 23 5 59 1 23 6 0 1 24 6 1 1 24 6 1 1 24 6 2 1 25 6n 2 1 s25	4 6 2 25 4 7 2 25 4 9 2 25 4 10 2 25 4 12 2 24 4 14 2 24	13 14 0 42 13 13 0 42 13 11 0 42 13 10 0 42 13 9 0 42	15 26 1 46 15 26 1 46 15 26 1 46	7 38 13 15 7 38 13 16 7 38 13 16 7 38 13 16 7 38 13 16 7 38 13 16	15 16 15 15 16 15 15 17 15 15 17 15 15 18 15	4 15 55 5 15 54 6 15 53 7 15 52 8 15 51	14 40 1 4 14 40 1 5 14 40 1 5 14 41 1 5 14 41 1 5

Julian Day Number = 2498842.5, Delta T = 108.66 sec Ecliptic obliquity =  $23^{\circ}25'13$ , Nutation =  $-0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}32'59$ , Lahiri =  $25^{\circ}39'59$ 

AUGUST 2129 00:00 UT

Audi	JJ. LIL														00.0	0 0.
Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	Р	n	v	Ç	Ŗ	Day
M 1	20 38 41	8 <b>Ω</b> 53'42	18 <b>≈</b> 15	5 <b>m</b> 27	7 <b>9</b> 5 9	0°R33	18 <b>Y</b> 47	16 <b>₽</b> 33	27 <b>Ω</b> 10	17 <b>M</b> 47	2 <b>П</b> 37	18°D23	18 <b>Ω</b> 49	15 <b>Ω</b> 54	12859	M 1
T 2	20 42 37	9°51'03	3 <b>∺</b> 23	6° 9	8°20	0 <b>)</b> €24	18°48	16°37	27°14	17°47	2°38	18 <b>Ω</b> 23	18°46	16° 1	13° 0	T 2
W 3	20 46 34	10°48'26	18°18	6°46	9°32	0°14	18°49	16°42	27°17	17°47	2°38	18°24	18°43	16° 8	13° 0	W 3
T 4	20 50 30	11°45'49	2 <b>Υ</b> 53	7°20	10°44	0° 4	18°50	16°46	27°21	17°48	2°39	18°24	18°40	16°14	13° 1	T 4
F 5	20 54 27	12°43'13	17° 3	7°50	11°55	29≈53	18°51	16°50	27°25	17°48	2°40	18°25	18°37	16°21	13° 2	F 5
S 6	20 58 23	13°40'39	0849	8°15	13° 7	29°41	18°51	16°55	27°28	17°48	2°40	18°25	18°33	16°28	13° 3	S 6
S 7	21 2 20	14°38'05	14° 9	8°36	14°19	29°29	18°52	16°59	27°32	17°48	2°41	18°R25	18°30	16°34	13° 3	S 7
M 8	21 6 17	15°35'34	27° 6	8°52	15°30	29°16	18°R52	17° 4	27°36	17°49	2°41	18°25	18°27	16°41	13° 4	M 8
T 9	21 10 13	16°33'03	9 <b>Ⅱ</b> 43	9° 4	16°42	29° 3	18°52	17° 9	27°39	17°49	2°42	18°25	18°24	16°48	13° 4	T 9
W10	21 14 10	17°30'34	22° 3	9°10	17°54	28°49	18°51	17°14	27°43	17°49	2°42	18°25	18°21	16°54	13° 5	W10
T 11	21 18 6	18°28'06	49911	9°R11	19° 6	28°35	18°51	17°18	27°47	17°50	2°43	18°D25	18°18	17° 1	13° 5	T 11
F 12	21 22 3	19°25'39	16° 9	9° 7	20°18	28°21	18°50	17°23	27°51	17°50	2°43	18°25	18°14	17° 7	13° 5	F 12
S 13	21 25 59	20°23'13	28° 0	8°57	21°30	28° 6	18°49	17°28	27°54	17°50	2°43	18°25	18°11	17°14	13° 6	S 13
S 14	21 29 56	21°20'49	9 <b>Ω</b> 48	8°42	22°42	27°51	18°48	17°33	27°58	17°51	2°44	18°25	18° 8	17°21	13° 6	S 14
M15	21 33 52	22°18'26	21°35	8°22	23°55	27°36	18°47	17°38	28° 2	17°51	2°44	18°R25	18° 5	17°27	13° 6	M15
T 16	21 37 49	23°16'04	3 <b>m</b> 23	7°56	25° 7	27°20	18°46	17°44	28° 5	17°52	2°45	18°25	18° 2	17°34	13° 6	T 16
W17	21 41 46	24°13'43	15°15	7°25	26°19	27° 4	18°44	17°49	28° 9	17°52	2°45	18°25	17°59	17°41	13°R 6	W17
T 18	21 45 42	25°11'23	27°12	6°50	27°32	26°48	18°42	17°54	28°13	17°53	2°45	18°24	17°55	17°47	13° 6	T 18
F 19	21 49 39	26° 9'04	9 <b>≏</b> 18	6° 9	28°44	26°33	18°40	17°59	28°17	17°54	2°46	18°23	17°52	17°54	13° 6	F 19
S 20	21 53 35	27° 6'47	21°35	5°25	29°57	26°17	18°38	18° 5	28°20	17°54	2°46	18°22	17°49	18° 1	13° 6	S 20
S 21	21 57 32	28° 4'30	4M 6	4°37	1 <b>Q</b> 9	26° 1	18°35	18°10	28°24	17°55	2°46	18°21	17°46	18° 7	13° 6	S 21
M22	22 1 28	29° 2'15	16°54	3°47	2°22	25°45	18°33	18°16	28°28	17°56	2°46	18°20	17°43	18°14	13° 5	M22
T 23	22 5 25	00'00 QTIO	0 <b>∡</b> 2	2°55	3°34	25°29	18°30	18°22	28°32	17°56	2°47	18°D20	17°39	18°21	13° 5	T 23
W24	22 9 21	0°57'47	13°32	2° 2	4°47	25°14	18°27	18°27	28°35	17°57	2°47	18°20	17°36	18°27	13° 5	W24
T 25	22 13 18	1°55'35	2 <u>7</u> °27	1°10	6° 0	24°59	18°24	18°33	28°39	17°58	2°47	18°21	17°33	18°34	13° 4	T 25
F 26	22 17 15	2°53'25	11 <b>る</b> 46	0°18	7°13	24°44	18°20	18°39	28°43	17°59	2°47	18°22	17°30	18°40	13° 4	F 26
S 27	22 21 11	3°51'15	26°26	29€30	8°25	24°29	18°17	18°45	28°47	18° 0	2°47	18°23	17°27	18°47	13° 3	S 27
S 28	22 25 8	4°49'07	11 <b>≈</b> 24	28°44	9°38	24°15	18°13	18°50	28°50	18° 1	2°47	18°R24	17°24	18°54	13° 3	S 28
M29	22 29 4	5°47'00	26°31	28° 4	10°51	24° 1	18° 9	18°56	28°54	18° 2	2°47	18°24	17°20	19° 0	13° 2	M29
T 30	22 33 1	6°44'54	11 <b>) (</b> 40	27°28	12° 4	23°47	18° 5	19° 2	28°58	18° 3	2°47	18°23	17°17	19° 7	13° 1	T 30
W31	22 36 57	7 <b>m</b> 42'50	26 <b>) (</b> 41	$26\Omega 59$	13 <b>Ω</b> 17	23≈34	18 <b>℃</b> 1	19 <b>॒</b> 8	29 <b>N</b> 2	18 <b>M</b> 4	2∏48	$18\Omega 21$	17 <b>Ω</b> 14	19 <b>Ω</b> 14	13 <b>8</b> 0	W31

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M 1	-	15 s20 On 1			17 s17 6 s27	6n 2 1s25		13n 6 0n42		7n38 13s17			
T 2	17 46	11 32 1 s22			17 23 6 29	6 2 1 25	4 19 2 24			7 37 13 17			-
W 3 T 4	17 31 17 15	7 4 2 39			17 29 6 32	6 3 1 26	_	-				5 12 15 46 5 13 15 45	
T 4 F 5	17 15 16 59	2 16 3 43 2n31 4 32			17 35 6 34 17 41 6 37	6 3 1 26						5 13 15 45 5 14 15 44	
S 6	16 42	7 0 5 3			17 47 6 39	6 3 1 27	4 26 2 23			7 37 13 18			
S 7	16 26	11 1 5 17	5 23 3	11 22 5 0 34	17 53 6 41	6 3 1 27	4 28 2 23	12 59 0 42	15 27 1 45	7 37 13 18	15 18 15	5 16 15 41	14 42 1 6
M 8	16 9	14 23 5 14	5 6 3	23 22 0 0 31	18 0 6 43	6 2 1 27	4 30 2 22	12 58 0 42	15 27 1 45	7 37 13 18	15 18 15	5 17 15 40	14 42 1 6
T 9	15 52	17 0 4 56	4 51 3	34 21 55 0 28	18 6 6 44	6 2 1 27	4 32 2 22	12 56 0 42	15 27 1 45	7 37 13 19	15 18 15	18 15 39	14 42 1 6
W10	15 34	18 46 4 25	4 39 3	45 21 48 0 25	18 12 6 46	6 2 1 28	4 34 2 22	12 55 0 42	15 27 1 45	7 36 13 19	15 18 15	5 19 15 38	14 42 1 7
T 11	15 17	19 39 3 42	4 28 3	56 21 42 0 22	18 18 6 47	6 1 1 28	4 36 2 22	12 54 0 42	15 27 1 45	7 36 13 19	15 18 15	5 20 15 37	14 42 1 7
F 12	14 59	19 38 2 50	4 21 4	6 21 34 0 19	18 24 6 48	6 1 1 28	4 38 2 22		15 27 1 45		15 18 15		
S 13	14 41	18 44 1 51	4 16 4	15 21 26 0 16	18 30 6 49	6 0 1 29	4 40 2 21	12 51 0 42	15 28 1 45	7 36 13 20	15 18 15	5 22 15 35	14 41 1 7
S 14	14 22	17 1 0 48			18 36 6 50		-		15 28 1 45	7 36 13 20			
M15	14 4	14 35 0n18		30 21 8 0 11	18 42 6 50	5 59 1 29	4 45 2 21					5 24 15 32	
T 16		11 32 1 22		36 20 58 0 8	18 48 6 50	5 58 1 29	4 47 2 21				15 18 15		
W17	13 26	8 1 2 24	-	41 20 48 0 5	18 54 6 50		4 49 2 21					5 26 15 30	
T 18	13 7	4 10 3 19		44 20 37 0 2	18 59 6 50		4 51 2 21					5 27 15 29	
F 19 S 20	12 47 12 28	0 0 1 /		46 20 25 On 1	19 4 6 50			12 43 0 42 12 42 0 42		7 35 13 21 7 35 13 21			
		4s 1 4 43				5 54 1 30			15 29 1 44				
S 21	12 8	8 3 5 8	_		., 0 .,			-	15 29 1 44	7 35 13 22			
M22		11 48 5 17		41 19 46 0 9	19 19 6 48	5 52 1 31		12 40 0 42		7 34 13 22		-	
T 23 W24	-	15 5 5 11 17 39 4 47		35 19 32 0 12 28 19 18 0 15	19 23 6 47 19 27 6 46	5 50 1 31 5 49 1 31	5 2 2 20 5 5 2 20					5 32 15 23 5 33 15 21	
T 25	,	19 17 4 6				5 49 1 31	5 7 2 19					5 33 15 21 5 34 15 20	
F 26		19 45 3 9				5 46 1 32	5 9 2 19					5 35 15 19	
S 27		18 54 1 59			19 38 6 41	5 44 1 32		-		7 33 13 23			
S 28		16 44 0 39			19 41 6 39	5 43 1 32			15 31 1 44	7 33 13 23			
M29		13 22 0s45			19 44 6 36	5 41 1 33			15 32 1 44	7 33 13 24			1. 50 1
T 30	9 2	9 7 2 5				5 39 1 33		-	15 32 1 44	7 33 13 24			
W31	8n40	4s19 3s16			19 s48 6 s31	5n38 1s33			15 s32 1n44			5n39 15n13	

Julian Day Number = 2498873.5, Delta T = 108.71 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation = - $0^{\circ}00'10$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}33'03$ , Lahiri =  $25^{\circ}40'04$ 

SEPTEMBER 2129 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)∤(	卉	Р	ß	Ω	Ç	ę,	Day
T 1	22 40 54	8 <b>m</b> ) 40'47	11 <b>Y</b> 25	26°R37	14€30	23°R22	17°R56	19 <b>≙</b> 15	29⋒ 5	18 <b>M</b> 5	2 <b>Ⅱ</b> 48	18°R18	17Ω11	19 <b>Ω</b> 20	13°R 0	T 1
F 2	22 44 50	9°38'47	25°46	26€22	15°44	23≈ 9	17 <b>Y</b> 52	19°21	29° 9	18° 6	2°R48	18 <b>Ω</b> 16	17° 8	19°27	12859	F 2
S 3	22 48 47	10°36'48	9 <b>8</b> 41	26°D16	16°57	22°58	17°47	19°27	29°13	18° 7	2°48	18°13	17° 5	19°34	12°58	S 3
S 4	22 52 43	11°34'51	23° 7	26°17	18°10	22°47	17°42	19°33	29°16	18° 8	2°48	18°11	17° 1	19°40	12°57	S 4
M 5	22 56 40	12°32'56	6 <b>I</b> 7	26°28	19°23	22°37	17°37	19°39	29°20	18° 9	2°47	18°10	16°58	19°47	12°56	M 5
T 6	23 0 37	13°31'03	18°44	26°46	20°37	22°27	17°31	19°46	29°24	18°10	2°47	18°D10	16°55	19°54	12°55	T 6
W 7	23 4 33	14°29'12	195 2	27°14	21°50	22°18	17°26	19°52	29°27	18°11	2°47	18°11	16°52	20° 0	12°54	W 7
T 8	23 8 30	15°27'23	13° 5	27°49	23° 4	22°10	17°20	19°59	29°31	18°13	2°47	18°12	16°49	20° 7	12°52	T 8
F 9	23 12 26	16°25'36	24°58	28°33	24°17	22° 2	17°14	20° 5	29°35	18°14	2°47	18°14	16°45	20°14	12°51	F 9
S 10	23 16 23	17°23'51	6 <b>Ω</b> 46	29°25	25°31	21°55	17° 9	20°12	29°38	18°15	2°47	18°15	16°42	20°20	12°50	S 10
S 11	23 20 19	18°22'08	18°33	0 <b>m</b> 24	26°44	21°49	17° 2	20°18	29°42	18°16	2°47	18°R16	16°39	20°27	12°49	S 11
M12	23 24 16	19°20'26	0 <b>m</b> 21	1°30	27°58	21°44	16°56	20°25	29°45	18°18	2°46	18°15	16°36	20°33	12°47	M12
T 13	23 28 12	20°18'47	12°14	2°43	29°12	21°39	16°50	20°31	29°49	18°19	2°46	18°13	16°33	20°40	12°46	T 13
W14	23 32 9	21°17'09	24°14	4° 2	0 <b>m</b> 26	21°35	16°43	20°38	29°53	18°21	2°46	18° 9	16°30	20°47	12°44	W14
T 15	23 36 6	22°15'33	6 <b>₽</b> 22	5°26	1°39	21°32	16°37	20°45	29°56	18°22	2°46	18° 4	16°26	20°53	12°43	T 15
F 16	23 40 2	23°13'59	18°41	6°56	2°53	21°30	16°30	20°51	29°59	18°23	2°45	17°58	16°23	21° 0	12°41	F 16
S 17	23 43 59	24°12'27	1 <b>m</b> .11	8°29	4° 7	21°28	16°23	20°58	0 Mg 3	18°25	2°45	17°52	16°20	21° 7	12°39	S 17
S 18	23 47 55	25°10'56	13°53	10° 6	5°21	21°D28	16°16	21° 5	0° 7	18°26	2°45	17°46	16°17	21°13	12°38	S 18
M19	23 51 52	26° 9'27	26°49	11°47	6°35	21°28	16° 9	21°12	0°10	18°28	2°44	17°41	16°14	21°20	12°36	M19
T 20	23 55 48	27° 8'00	10 <b>×</b> 0	13°30	7°49	21°29	16° 2	21°19	0°14	18°29	2°44	17°38	16°10	21°27	12°34	T 20
W21	23 59 45	28° 6'34	23°28	15°15	9° 3	21°31	15°55	21°26	0°17	18°31	2°44	17°D37	16° 7	21°33	12°32	W21
T 22	0 3 41	29° 5'10	7 <b>云</b> 13	17° 2	10°17	21°34	15°47	21°33	0°20	18°33	2°43	17°37	16° 4	21°40	12°30	T 22
F 23	0 738	<b>0♀</b> 3'48	21°18	18°51	11°31	21°37	15°40	21°40	0°24	18°34	2°43	17°38	16° 1	21°47	12°28	F 23
S 24	0 11 35	1° 2'27	5≈40	20°40	12°45	21°41	15°32	21°47	0°27	18°36	2°42	17°39	15°58	21°53	12°26	S 24
S 25	0 15 31	2° 1'08	20°18	22°30	14° 0	21°47	15°25	21°54	0°31	18°38	2°42	17°R39	15°55	22° 0	12°24	S 25
M26	0 19 28	2°59'51	5 <b>₩</b> 7	24°20	15°14	21°52	15°17	22° 1	0°34	18°39	2°42	17°38	15°51	22° 6	12°22	M26
T 27	0 23 24	3°58'35	20° 1	26°11	16°28	21°59	15° 9	22° 8	0°37	18°41	2°41	17°35	15°48	22°13	12°20	T 27
W28	0 27 21	4°57'21	4 <b>Υ</b> 53	28° 1	17°42	22° 6	15° 2	22°15	0°40	18°43	2°41	17°30	15°45	22°20	12°18	W28
T 29	0 31 17	5°56'09	19°33	29°52	18°57	22°15	14°54	22°22	0°44	18°44	2°40	17°22	15°42	22°26	12°16	T 29
F 30	0 35 14	6 <b>♀</b> 55'00	3 <b>8</b> 55	1 <b>≏</b> 42	20 <b>m</b> 11	22≈23	14 <b>Y</b> 46	22 <b>£</b> 29	0 <b>m</b> 47	18 <b>M</b> .46	2Ⅲ39	17 <b>Ω</b> 15	15 <b>Ω</b> 39	22 <b>N</b> 33	12814	F 30

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S 4 M 5 T 6 W 7 T 8	7 13 6 51 6 29 6 6 5 44	16 23 5 0 18 26 4 32 19 34 3 51	11 14 1 3 11 28 1 1 11 39 0 5 11 46 0 4 11 50 0 2	18 15 43 0 45 59 15 21 0 47 42 15 0 0 50	19 53 6 20 19 53 6 16 19 53 6 13 19 53 6 10 19 52 6 6	5 30 1 34 5 27 1 34 5 25 1 34 5 23 1 35 5 21 1 35	5 38 2 18	12 22 0 42 12 20 0 42 12 19 0 42	15 34 1 43	7 31 13 25 7 31 13 26 7 31 13 26	15 22 15	44 15 7 45 15 5 46 15 4	14 36 1 10 14 35 1 10 14 35 1 11 14 34 1 11 14 34 1 11
F 9 S 10	5 21 4 59	19 5 2 5		8 14 16 0 54		5 18 1 35 5 16 1 35	5 43 2 17	12 16 0 42			15 21 15	48 15 2	14 33 1 11 14 33 1 11
S 11 M12 T 13 W14 T 15 F 16 S 17	4 36 4 13 3 50 3 27 3 4 2 41 2 18	12 22 1 6 8 56 2 8 5 6 3 4 1 2 3 53 3s 7 4 32	10 56 0 5 10 34 1 10 10 1 1	35 13 6 1 0 47 12 42 1 2 58 12 18 1 3 8 11 54 1 5 17 11 29 1 7	19 44 5 46 19 41 5 42 19 38 5 38 19 35 5 34	5 13 1 35 5 11 1 35 5 8 1 36 5 6 1 36 5 3 1 36 5 0 1 36 4 58 1 36	5 51 2 17	12 13 0 42 12 11 0 42 12 10 0 43 12 9 0 43 12 8 0 43	15 38 1 43	7 29 13 27 7 29 13 27	15 21 15 15 21 15 15 23 15 15 24 15 15 26 15	51 14 58 52 14 57 53 14 55 54 14 54 55 14 53	14 32 1 11 14 31 1 12 14 31 1 12 14 30 1 12 14 29 1 12
S 18 M19 T 20 W21 T 22 F 23 S 24	-	14 27 5 7 17 11 4 48 19 4 4 12 19 52 3 22 19 28 2 18	8 38 1 3 8 3 1 4 7 26 1 4 6 46 1 4 6 6 1 5	37 10 12 1 12 42 9 46 1 13 46 9 19 1 15 48 8 53 1 16 50 8 26 1 17	19 19 5 16 19 14 5 11 19 9 5 7	4 55 1 36 4 52 1 36 4 49 1 37 4 46 1 37 4 43 1 37 4 40 1 37 4 37 1 37		12 4 0 43 12 3 0 43 12 2 0 43 12 1 0 43	15 40 1 43 15 41 1 43 15 41 1 43 15 42 1 43		15 31 15 15 32 15 15 33 16 15 33 16 15 32 16	58 14 49 59 14 48 0 14 46 0 14 45 1 14 44	14 27 1 12 14 27 1 13 14 26 1 13 14 25 1 13 14 25 1 13
S 25 M26 T 27 W28 T 29 F 30	0 48 1 11 1 35 1 58 2 21 2 s45	14 56 0s14 11 4 1 33 6 30 2 46 1 32 3 47 3n26 4 32 8n 7 4s59	3 56 1 5 3 11 1 4 2 25 1 4 1 39 1 4	50 7 3 1 21 49 6 35 1 22 47 6 7 1 23 44 5 39 1 23	18 45 4 49 18 39 4 44 18 32 4 40	4 34 1 37 4 31 1 37 4 28 1 37 4 25 1 37 4 22 1 37 4n19 1s37	6 28 2 16 6 31 2 16 6 33 2 16 6 36 2 16	11 56 0 43 11 55 0 43 11 54 0 43 11 52 0 43	15 44 1 42 15 44 1 42	7 25 13 31	15 32 16 15 33 16 15 35 16 15 37 16	4 14 40 5 14 38 6 14 37 7 14 36	14 22 1 13 14 22 1 14 14 21 1 14 14 20 1 14

Julian Day Number = 2498904.5, Delta T = 108.76 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation = -  $0^{\circ}00'11$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}33'07$ , Lahiri =  $25^{\circ}40'08$ 

OCTOBER 2129 00:00 UT

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Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)∤(	¥	Р	n	v	Ç	& &	Day
S 1	0 39 10	7 <b>≏</b> 53'52	17 <b>8</b> 53	3 <b>ჲ</b> 31	21 <b>m</b> 25	22≈33	14°R38	22 <b>º</b> 36	0 <b>m</b> 50	18 <b>M</b> .48	2°R39	17°R 7	15 <b>Ω</b> 36	22 <b>N</b> 40	12°R11	S 1
S 2	0 43 7	8°52'47	1П24	5°20	22°40	22°43	14 <b>Y</b> 30	22°43	0°53	18°50	2Ⅲ38	17 <b>Ω</b> 0	15°32	22°46	128 9	S 2
M 3	0 47 3	9°51'44	14°28	7° 8	23°54	22°54	14°22	22°50	0°56	18°52	2°38	16°55	15°29	22°53	12° 7	M 3
T 4	0 51 0	10°50'43	27° 7	8°56	25° 9	23° 6	14°14	22°58	0°59	18°53	2°37	16°52	15°26	23° 0	12° 4	T 4
W 5	0 54 57	11°49'45	99526	10°42	26°23	23°18	14° 6	23° 5	1° 2	18°55	2°36	16°D51	15°23	23° 6	12° 2	W 5
T 6	0 58 53	12°48'49	21°29	12°28	27°38	23°32	13°58	23°12	1° 6	18°57	2°36	16°51	15°20	23°13	11°59	T 6
F 7	1 2 50	13°47'55	3 <b>Ω</b> 22	14°14	28°53	23°45	13°50	23°19	1° 9	18°59	2°35	16°52	15°16	23°20	11°57	F 7
S 8	1 6 46	14°47'03	15° 9	15°58	0요 7	24° 0	13°42	23°26	1°11	19° 1	2°34	16°R52	15°13	23°26	11°54	S 8
S 9	1 10 43	15°46'14	26°57	17°42	1°22	24°15	13°34	23°34	1°14	19° 3	2°34	16°52	15°10	23°33	11°52	S 9
M10	1 14 39	16°45'27	8 <b>m</b> /48	19°25	2°37	24°30	13°25	23°41	1°17	19° 5	2°33	16°49	15° 7	23°39	11°49	M10
T 11	1 18 36	17°44'42	20°47	21° 7	3°51	24°47	13°17	23°48	1°20	19° 7	2°32	16°44	15° 4	23°46	11°47	T 11
W12	1 22 32	18°43'59	2 <b>≏</b> 58	22°49	5° 6	25° 4	13° 9	23°56	1°23	19° 9	2°31	16°37	15° 1	23°53	11°44	W12
T 13	1 26 29	19°43'18	15°20	24°29	6°21	25°21	13° 1	24° 3	1°26	19°11	2°31	16°27	14°57	23°59	11°41	T 13
F 14	1 30 26	20°42'39	27°56	26° 9	7°36	25°39	12°53	24°10	1°29	19°13	2°30	16°15	14°54	24° 6	11°39	F 14
S 15	1 34 22	21°42'03	10 <b>M</b> .45	27°48	8°51	25°58	12°46	24°17	1°31	19°15	2°29	16° 3	14°51	24°13	11°36	S 15
S 16	1 38 19	22°41'28	23°47	29°27	10° 6	26°17	12°38	24°25	1°34	19°17	2°28	15°52	14°48	24°19	11°33	S 16
M17	1 42 15	23°40'55	7 <b>.7</b> 0	1 <b>m</b> 4	11°20	26°37	12°30	24°32	1°37	19°19	2°27	15°43	14°45	24°26	11°30	M17
T 18	1 46 12	24°40'24	20°25	2°41	12°35	26°57	12°22	24°39	1°39	19°21	2°27	15°36	14°41	24°33	11°28	T 18
W19	1 50 8	25°39'55	4 <b>る</b> 0	4°18	13°50	27°18	12°15	24°47	1°42	19°23	2°26	15°31	14°38	24°39	11°25	W19
T 20	1 54 5	26°39'28	17°46	5°53	15° 5	27°40	12° 7	24°54	1°44	19°25	2°25	15°30	14°35	24°46	11°22	T 20
F 21	1 58 1	27°39'02	1≈43	7°28	16°20	28° 2	11°59	25° 1	1°47	19°27	2°24	15°D29	14°32	24°53	11°19	F 21
S 22	2 1 58	28°38'38	15°50	9° 3	17°35	28°24	11°52	25° 9	1°49	19°29	2°23	15°R30	14°29	24°59	11°16	S 22
S 23	2 5 5 5	29°38'16	0 <b>∀</b> 8	10°37	18°50	28°47	11°45	25°16	1°52	19°32	2°22	15°29	14°26	25° 6	11°13	S 23
M24	2 9 51	0 <b>M</b> 37'55	14°33	12°10	20° 5	29°10	11°38	25°23	1°54	19°34	2°21	15°26	14°22	25°13	11°11	M24
T 25	2 13 48	1°37'36	29° 3	13°43	21°20	29°34	11°30	25°31	1°56	19°36	2°20	15°21	14°19	25°19	11°8	T 25
W26	2 17 44	2°37'19	13 <b>Y</b> 32	15°15	22°35	29°58	11°23	25°38	1°59	19°38	2°19	15°13	14°16	25°26	11° 5	W26
T 27	2 21 41	3°37'03	27°54	16°46	23°50	0 <b>∺</b> 23	11°17	25°45	2° 1	19°40	2°18	15° 2	14°13	25°32	11° 2	T 27
F 28	2 25 37	4°36'50	128 2	18°17	25° 6	0°48	11°10	25°52	2° 3	19°42	2°17	14°50	14°10	25°39	10°59	F 28
S 29	2 29 34	5°36'39	25°52	19°48	26°21	1°13	11° 3	26° 0	2° 5	19°45	2°16	14°38	14° 7	25°46	10°56	S 29
S 30	2 33 30	6°36'29	9∏19	21°17	27°36	1°39	10°57	26° 7	2° 7	19°47	2°15	14°27	14° 3	25°52	10°53	S 30
M31	2 37 27	7 <b>M</b> 36'22	22 <b>II</b> 22	22 <b>M</b> 47	28 <b>≏</b> 51	2 <b>米</b> 5	10 <b>Y</b> 50	26 <b>≏</b> 14	2MD 9	19 <b>M</b> .49	2∏14	14 <b>\O</b> 18	14 <b>0</b> 0	25 <b>Ω</b> 59	10850	M31

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S 1	3 s 8	12n13 5 s	s 7 0n	6 1n38	4n42	1n25	18 s11	4 s 2 6	4n16	1 s37	6s41	2n16	11n50	0n43	15 s46	1n42	7n24	13 s31	15n42	16n 9	14n33	14n18	1 s14
S 2	3 31	15 34 4	58 0s4	1 1 34	4 13	1 26	18 3	4 22	4 13	1 37	6 44	2 15	11 49	0 43	15 46	1 42	7 23	13 31	15 44	16 10	14 32	14 18	1 14
M 3	3 54		33 1 2		3 44			4 17	4 10	1 37	6 47		11 48			1 42			15 45				1 14
T 4	4 17		55 2 1		3 15			4 13	4 7	1 37	6 49		11 47	0 43	-	1 42			15 46				1 14
W 5 T 6	4 40 5 3			0 1 20 7 1 15	2 46 2 17		17 39 17 30	4 8 4 4	4 4 4	1 37 1 37	6 52 6 55		11 46 11 45		-	1 42 1 42			15 47 15 46				1 15 1 15
F 7	5 26		12 4 3		1 48			4 0	3 57	1 37	6 57		11 43			1 42			15 46				1 15
S 8	5 49				1 18		17 13	-	3 54	1 37	7 0		11 43		15 50	1 42			15 46				1 15
S 9	6 12	13 22 On	n54 6	3 0 57	0 49	1 29	17 4	3 51	3 51	1 37	7 3	2 15	11 42	0 43	15 50	1 42	7 21	13 33	15 46	16 16	14 22	14 12	1 15
M10	6 35	10 2 1	55 6 4	8 0 51	0 19	1 29	16 54	3 47	3 48	1 37	7 5	2 15	11 41	0 43	15 51	1 42	7 21	13 33	15 47	16 17	14 21	14 11	1 15
T 11	6 57		51 7 3		0s10		16 45	3 43	3 45	1 37	7 8		11 40			1 42			15 48				1 15
W12	7 20		40 8 1		0 40		16 35	3 38	3 42	1 37	7 11		11 39			1 42			15 51				1 15
T 13	7 42		20 8 5		1 10		16 25	3 34	3 39	1 37	7 14		11 38		15 52	1 42			15 54				1 16
F 14 S 15	8 5	6 15 4 10 15 5	48 9 4 1 10 2		1 39 2 9	1 29 1 28	16 15 16 5	3 30 3 26	3 36 3 33	1 37 1 37	7 16 7 19		11 37 11 36		15 53 15 53	1 42 1 42		13 34 13 34	15 57		14 15 14 14		1 16 1 16
S 16	8 49			5 0 12	2 39	-		-	3 30	1 37	7 22		11 35		15 54	1 42		13 34			14 13		1 16
M17 T 18	9 11 9 33		42 11 4 9 12 2		3 8 3 38	-	15 44 15 33		3 27 3 24	1 37 1 37	7 24 7 27		11 34 11 33		15 55 15 55	1 42 1 42		13 34 13 34			14 11 14 10		1 16 1 16
W19	9 55			5 0s 2 5 0 9	3 38 4 7		15 22	3 10		1 37	7 30		11 33	0 43		1 42			16 10			14 3 14 2	1 16
T 20	10 16		22 13 4		4 37			3 6	3 18	1 37	7 32		11 31	0 43		1 42			16 11			14 1	1 16
F 21	10 38		13 14 2		5 6			3 2	3 15	1 36	7 35		11 31	0 43		1 42			16 11			14 0	1 16
S 22	10 59	16 6 0s	s 2 14 5	8 0 29	5 35	1 25	14 49	2 58	3 13	1 36	7 37	2 15	11 30	0 44	15 58	1 42	7 17	13 35	16 11	16 29	14 4	13 59	1 16
S 23	11 20	12 37 1	17 15 3	4 0 36	6 4	1 24	14 37	2 55	3 10	1 36	7 40	2 15	11 29	0 44	15 58	1 42	7 17	13 35	16 11	16 29	14 3	13 58	1 17
M24	11 41	8 21 2	28 16	9 0 43	6 33	1 24	14 25	2 51	3 7	1 36	7 43	2 15	11 28	0 44	15 59	1 42	7 17	13 35	16 12	16 30	14 1	13 57	1 17
T 25	12 2		29 16 4		7 2	-	14 14	2 47	3 5	1 36	7 45		11 27	0 44	15 59	1 42			16 13			13 56	1 17
W26			17 17 1		7 31		14 2	2 44	3 2	1 36	7 48		11 27	0 44	-	1 42			16 16				1 17
T 27	12 43	-	48 17 5		8 0		13 50	2 40	2 59	1 36	7 51		11 26		-	1 42			16 19				1 17
F 28 S 29	13 3 13 23		1 18 2 55 18 5		8 28 8 56		13 37 13 25	2 37 2 33	2 57 2 54	1 36 1 35	7 53 7 56		11 25 11 24	0 44 0 44		1 41 1 41			16 22 16 26				1 17 1 17
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S 30 M31			33 19 2 s58 19 s5		9 24		13 12 13 s 0			1 35 1 s35	7 58 8s 1		11 24 11n23	-		1 41 1n41			16 29				1 17 1 s17
IVIST	148 2	171113 38	536 1983	1 528	9 s 5 2	11110	138 0	2820	21130	1 833	08 1	21113	111123	01144	16s 3	11141	/1113	13830	101132	10115/	131131	13n50	181/

Julian Day Number = 2498934.5, Delta T = 108.81 sec Ecliptic obliquity =  $23^{\circ}25'15$ , Nutation = - $0^{\circ}00'13$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}33'12$ , Lahiri =  $25^{\circ}40'12$ 

NOVEMBER 2129 00:00 UT

Day	Sid.t	0	D	ğ	Q	ð	4	ħ	)∤(	卉	Р	N.	U	Ç	, k	Day
T 1	2 41 24	8MJ36'17	599 3	24M16	OM 6	2 <b>)</b> (32	10°R44	26 <b>₽</b> 21	2 <b>m</b> ) 11	19 <b>M</b> 51	2°R13	14°R11	13 <b>Ω</b> 57	26 <b>N</b> 6	10°R47	T 1
W 2	2 45 20	9°36'14	17°23	25°44	1°21	2°59	10 <b>Y</b> 38	26°28	2°13	19°53	2 <b>Ⅱ</b> 12	14 <b>Ω</b> 8	13°54	26°12	10844	W 2
T 3	2 49 17	10°36'14	29°27	27°11	2°37	3°26	10°32	26°36	2°15	19°56	2°11	14° 6	13°51	26°19	10°41	T 3
F 4	2 53 13	11°36'15	11 <b>\O</b> 20	28°38	3°52	3°54	10°26	26°43	2°17	19°58	2°10	14° 6	13°47	26°26	10°38	F 4
S 5	2 57 10	12°36'18	23° 8	0 <b>√</b> 5	5° 7	4°22	10°20	26°50	2°19	20° 0	2° 9	14° 6	13°44	26°32	10°35	S 5
S 6	3 1 6	13°36'24	4 <b>m</b> 57	1°31	6°22	4°50	10°15	26°57	2°21	20° 2	2° 8	14° 5	13°41	26°39	10°32	S 6
M 7	3 5 3	14°36'32	16°51	2°56	7°38	5°19	10° 9	27° 4	2°23	20° 5	2° 7	14° 2	13°38	26°46	10°29	M 7
T 8	3 8 59	15°36'41	28°55	4°20	8°53	5°48	10° 4	27°11	2°24	20° 7	2° 6	13°56	13°35	26°52	10°26	T 8
W 9	3 12 56	16°36'53	11 <b>≏</b> 13	5°44	10° 8	6°17	9°59	27°18	2°26	20° 9	2° 5	13°47	13°32	26°59	10°23	W 9
T 10	3 16 53	17°37'06	23°48	7° 7	11°23	6°47	9°54	27°25	2°27	20°11	2° 4	13°36	13°28	27° 6	10°21	T 10
F 11	3 20 49	18°37'22	6 <b>M</b> .40	8°29	12°39	7°17	9°50	27°32	2°29	20°14	2° 3	13°23	13°25	27°12	10°18	F 11
S 12	3 24 46	19°37'39	19°50	9°50	13°54	7°47	9°45	27°39	2°30	20°16	2° 2	13°10	13°22	27°19	10°15	S 12
S 13	3 28 42	20°37'58	3 <b>₹</b> 15	11° 9	15° 9	8°17	9°41	27°46	2°32	20°18	2° 1	12°57	13°19	27°25	10°12	S 13
M14	3 32 39	21°38'19	16°53	12°28	16°25	8°48	9°37	27°53	2°33	20°20	1°59	12°46	13°16	27°32	10° 9	M14
T 15	3 36 35	22°38'41	0 <b>궁</b> 42	13°45	17°40	9°19	9°33	28° 0	2°35	20°23	1°58	12°38	13°13	27°39	10° 6	T 15
W16	3 40 32	23°39'05	14°37	15° 1	18°56	9°50	9°29	28° 7	2°36	20°25	1°57	12°32	13° 9	27°45	10° 3	W16
T 17	3 44 28	24°39'30	28°36	16°15	20°11	10°22	9°25	28°14	2°37	20°27	1°56	12°30	13° 6	27°52	10° 0	T 17
F 18	3 48 25	25°39'56	12 <b>≈</b> 39	17°27	21°26	10°54	9°22	28°20	2°38	20°29	1°55	12°D29	13° 3	27°59	9°57	F 18
S 19	3 52 22	26°40'24	26°43	18°37	22°42	11°26	9°19	28°27	2°39	20°32	1°54	12°R29	13° 0	28° 5	9°55	S 19
S 20	3 56 18	27°40'53	10 <b>) (</b> 49	19°45	23°57	11°58	9°16	28°34	2°40	20°34	1°53	12°29	12°57	28°12	9°52	S 20
M21	4 0 15	28°41'23	24°55	20°50	25°12	12°30	9°13	28°41	2°41	20°36	1°52	12°26	12°53	28°19	9°49	M21
T 22	4 4 1 1	29°41'54	9 <b>Υ</b> 1	21°51	26°28	13° 3	9°10	28°47	2°42	20°38	1°50	12°21	12°50	28°25	9°46	T 22
W23	4 8 8	0 <b>,</b> 742'27	23° 2	22°49	27°43	13°36	9° 8	28°54	2°43	20°41	1°49	12°13	12°47	28°32	9°44	W23
T 24	4 12 4	1°43'01	6 <b>8</b> 57	23°44	28°59	14° 9	9° 6	29° 0	2°44	20°43	1°48	12° 3	12°44	28°39	9°41	T 24
F 25	4 16 1	2°43'36	20°41	24°33	0 <b>才</b> 14	14°42	9° 4	29° 7	2°45	20°45	1°47	11°52	12°41	28°45	9°38	F 25
S 26	4 19 57	3°44'13	4 <b>Ⅱ</b> 11	25°18	1°29	15°16	9° 2	29°13	2°45	20°47	1°46	11°40	12°38	28°52	9°36	S 26
S 27	4 23 54	4°44'51	17°23	25°56	2°45	15°49	9° 1	29°20	2°46	20°49	1°45	11°29	12°34	28°59	9°33	S 27
M28	4 27 51	5°45'31	09୍ତ17	26°29	4° 0	16°23	8°59	29°26	2°47	20°52	1°44	11°20	12°31	29° 5	9°30	M28
T 29	4 31 47	6°46'12	12°52	26°53	5°16	16°57	8°58	29°33	2°47	20°54	1°43	11°13	12°28	29°12	9°28	T 29
W30	4 35 44	7 <b>.₹</b> 146'54	259510	27 <b>×</b> 10	6 <b>₹</b> 31	17 <b>)</b> 32	8 <b>Ƴ</b> 57	29 <b>₽</b> 39	2 Mp 48	20 <b>M</b> .56	1 <b>Ⅱ</b> 41	11 <b>Ω</b> 10	$12\Omega_{25}$	29 <b>Ω</b> 19	9 <b>8</b> 25	W30

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T 1 W 2 T 3	14 s22 14 41 15 0	20 2 2 17		0 10 47 1 14	12 s47 2 s23 12 34 2 19 12 21 2 16	2n47 1s35 2 45 1 35 2 43 1 34	8 6 2 16	11n22 0n44 11 22 0 44 11 21 0 44	16 4 1 41	7 14 13 36	16n34 16n33 16 35 16 39 16 35 16 40	13 48	13n49 1s17 13 48 1 18 13 47 1 18
F 4 S 5	15 18		21 38 1 5	1 11 41 1 11	12 8 2 13 11 55 2 10	2 41 1 34	8 11 2 16	11 20 0 44 11 20 0 44 11 20 0 44	16 5 1 41	7 14 13 36	16 35 16 40 16 35 16 4 16 35 16 4	13 46	13 46 1 18
S 6 M 7 T 8	15 55 16 13 16 30	7 43 2 44	22 25 2 22 47 2 23 8 2 1	6 13 0 1 6	11 42 2 7 11 28 2 3 11 15 2 0	2 37 1 34 2 35 1 34 2 33 1 33	8 16 2 16 8 18 2 16 8 21 2 16		16 7 1 41	7 13 13 36	16 36 16 42 16 36 16 42 16 38 16 44	3 13 41	13 43 1 18
W 9 T 10 F 11	16 47 17 4 17 21	0s32 4 14	23 27 2 1 23 45 2 1	5 13 51 1 3 9 14 16 1 1	11 1 1 57 10 47 1 54 10 33 1 51	2 31 1 33 2 30 1 33 2 28 1 33	8 23 2 16 8 26 2 16	11 17 0 44 11 17 0 44	16 8 1 41	7 13 13 36 7 12 13 36	16 41 16 43 16 44 16 44 16 47 16 47	13 38 5 13 37	13 41 1 18 13 40 1 18
S 12 S 13 M14		16 10 4 42	24 18 2 2 24 33 2 2 24 46 2 3	9 15 29 0 56	10 19 1 48 10 5 1 45 9 51 1 43			11 15 0 44	16 10 1 41 16 11 1 41 16 11 1 41	7 12 13 37	16 51 16 49 16 55 16 49 16 58 16 50	13 32	13 37 1 18
T 15 W16 T 17 F 18		20 16 2 22 19 14 1 13	24 58 2 3. 25 9 2 3. 25 18 2 3. 25 26 2 3.	5 16 38 0 50 6 17 0 0 48	9 37 1 40 9 22 1 37 9 8 1 34 8 53 1 32	2 22 1 32 2 21 1 31 2 20 1 31 2 19 1 31	8 40 2 17 8 42 2 17	11 14 0 44 11 14 0 45 11 14 0 45 11 13 0 45	16 13 1 41 16 13 1 41	7 11 13 37 7 11 13 37 7 11 13 37 7 11 13 37	17 2 16 5 17 2 16 5	1 13 28 2 13 26	13 35 1 19 13 34 1 19
S 19 S 20	19 24 19 38	13 46 1 15 9 44 2 24	25 32 2 3 25 38 2 3	7 17 43 0 44 6 18 4 0 42	8 39 1 29 8 24 1 26	2 18 1 31 2 17 1 30	8 47 2 17 8 49 2 17	11 13 0 45 11 13 0 45	16 14 1 41 16 15 1 41	7 10 13 37 7 10 13 37	17 3 16 54 17 3 16 55	1 13 23 5 13 22	13 32 1 19 13 31 1 19
M21 T 22 W23	19 51 20 4 20 17	4n31 4 46	25 43 2 3 25 44 2 3	3 18 44 0 38 1 19 4 0 35	8 9 1 24 7 54 1 21 7 39 1 19		8 54 2 17 8 56 2 17	11 12 0 45 11 12 0 45 11 12 0 45	16 16 1 41 16 17 1 41	7 10 13 37 7 10 13 37 7 10 13 37	17 5 16 5° 17 7 16 5°	7 13 19 3 13 17	13 29 1 19 13 28 1 19
T 24 F 25 S 26	20 29 20 41 20 53	13 6 4 59	25 43 2 2 25 41 2 2 25 37 2 1		7 24 1 16 7 9 1 14 6 54 1 11	2 14 1 29 2 14 1 29 2 13 1 29	9 0 2 18	11 11 0 45 11 11 0 45 11 11 0 45		7 9 13 36	17 10 16 59 17 13 16 59 17 16 17	13 14	13 26 1 19
T 29	21 4 21 15 21 25 21 s35	20 5 3 20 20 24 2 25	25 16 1 5	2 20 32 0 24	6 39 1 9 6 23 1 7 6 8 1 4 5 s 5 3 1 s 2	2 13 1 28 2 12 1 28	9 7 2 18 9 9 2 18	11 11 0 45 11 10 0 45		7 9 13 36 7 9 13 36		2 13 10 3 13 8	13 24 1 19 13 24 1 19 13 23 1 19 13n22 1 s19

Julian Day Number = 2498965.5, Delta T = 108.86 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation = -  $0^{\circ}00'14$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}33'16$ , Lahiri =  $25^{\circ}40'16$ 

DECEMBER 2129 00:00 UT

Day	Sid.t	0	D	ğ	φ	ð	4	ħ	)ţ(	¥	Р	R	Ω	Ç	ķ	Day
T 1	4 39 40	8 <b>.7</b> 47'38	7Ω13	27°R18	7 <b>~</b> 147	18 <b>¥</b> 6	8°R56	29 <b>≏</b> 45	2 mp 48	20 <b>M</b> .58	1°R40	11°D 8	12Ω22	29 <b>Ω</b> 25	9°R23	T 1
F 2	4 43 37	9°48'23	19° 7	27 K18	9° 2	18°40	8 <b>Υ</b> 56	29°51	2°49	201638 21° 0	1 <b>II</b> 39	110 8	12°19	29°32	9 <b>8</b> 23	F 2
$\begin{bmatrix} 1 & 2 \\ S & 3 \end{bmatrix}$	4 47 33	10°49'10	0 mp 55	27° 5	10°18	19°15	8°56	29°57	2°49	21° 2	1°38	11° 9	12°15	29°38	9°18	S 3
S 4	4 51 30	11°49'59	12°44	26°42	11°33	19°50	8°D55	0M 3	2°49	21° 5	1°37	11°R10	12°12	29°45	9°15	S 4
M 5	4 55 26	12°50'48	24°38	26° 8	12°48 14° 4	20°25 21° 0	8°56	0°10	2°49	21° 7	1°36	11° 9 11° 6	12° 9	29°52	9°13 9°11	M 5
T 6 W 7	4 59 23 5 3 20	13°51'39 14°52'32	6 <b>Ω</b> 43 19°4	25°23 24°27	15°19	21°35	8°56 8°56	0°15 0°21	2°49 2°50	21° 9 21°11	1°35 1°34	11° 6	12° 6 12° 3	29°58	9° 11	T 6 W 7
T 8	5 7 16	14 32 32 15°53'25	19 4 1 <b>M</b> .44	24 27 23°22	16°35	21°33 22°11	8°57	0°27	2°R50	21°13	1°33	10°53	11°59	0 Mp 5 0°12	9° 6	T 8
F 9	5 11 13	15°54'20	14°46	23° 22° 22° 9	17°50	22°46	8°58	0°33	2°50	21°15	1°32	10°33	11°56	0°18	9° 4	F 9
S 10	5 15 9	17°55'17	28°10	20°50	19° 6	23°22	8°59	0°39	2°50	21°17	1°30	10°35	11°53	0°25	9° 2	S 10
S 11	5 19 6	18°56'14	11 🗷 55	19°28	20°21	23°58	9° 1	0°44	2°49	21°19	1°29	10°26	11°50	0°32	9° 0	S 11
M12 T 13	5 23 2 5 26 59	19°57'12 20°58'12	25°58 10 <b>♂</b> 13	18° 5 16°44	21°37 22°52	24°34 25°10	9° 2 9° 4	0°50 0°56	2°49 2°49	21°21 21°23	1°28 1°27	10°18 10°12	11°47 11°44	0°38 0°45	8°58 8°56	M12 T 13
W14	5 20 59	20°58°12 21°59'12	24°35	15°28	24° 8	25°46	9° 4	1° 1	2°49	21°25	1°26	10°12	11°44 11°40	0°43 0°52	8°54	W14
T 15	5 34 52	21° 39°12 23° 0'12	24 33 9 <b>≈</b> 0	13°28 14°20	25°23	26°22	9° 8	1° 7	2°48	21°27	1°25	10° 8	11°37	0°58	8°52	T 15
F 16	5 38 49	24° 1'14	23°22	13°20	26°39	26°59	9°10	1°12	2°48	21°29	1°24	10° 8	11°34	1° 5	8°50	F 16
S 17	5 42 45	25° 2'15	7 <b>∺</b> 38	12°30	27°54	27°35	9°13	1°17	2°47	21°31	1°23	10° 9	11°31	1°12	8°48	S 17
					29°10		9°16	1°22		21°33			11°28		8°46	
S 18 M19	5 46 42 5 50 38	26° 3'17 27° 4'20	21°47 5 <b>Ƴ</b> 47	11°52 11°24	29°10 0 <b>石</b> 25	28°12 28°49	9°16	1°22	2°47 2°46	21°35	1°22 1°21	10°R10 10°10	11°28	1°18 1°25	8°45	S 18 M19
T 20	5 54 35	28° 5'22	19°37	11° 8	1°41	29°26	9°22	1°33	2°46	21°37	1°20	10° 10	11°21	1°32	8°43	T 20
W21	5 58 31	29° 6'25	3 <b>8</b> 18	11°D 2	2°56	$0\Upsilon^2$	9°25	1°38	2°45	21°39	1°19	10° 4	11°18	1°38	8°41	W21
T 22	6 2 28	0 <b>궁</b> 7'29	16°47	11° 5	4°12	0°40	9°29	1°43	2°44	21°41	1°18	9°58	11°15	1°45	8°40	T 22
F 23	6 6 24	1° 8'33	0 <b>Π</b> 4	11°19	5°27	1°17	9°33	1°48	2°43	21°43	1°17	9°51	11°12	1°52	8°38	F 23
S 24	6 10 21	2° 9'37	13° 8	11°40	6°43	1°54	9°37	1°52	2°43	21°44	1°16	9°44	11° 9	1°58	8°37	S 24
S 25	6 14 18	3°10'41	25°59	12° 9	7°58	2°31	9°41	1°57	2°42	21°46	1°15	9°38	11° 5	2° 5	8°35	S 25
M26	6 18 14	4°11'47	8 <b>9</b> 36	12°45	9°13	3° 8	9°45	2° 2	2°41	21°48	1°14	9°33	11° 2	2°12	8°34	M26
T 27	6 22 11	5°12'52	20°59	13°27	10°29	3°46	9°50	2° 6	2°40	21°50	1°13	9°29	10°59	2°18	8°33	T 27
W28	6 26 7	6°13'58	3 <b>Ω</b> 10	14°14	11°44	4°23	9°54	2°11	2°39	21°52	1°12	9°28	10°56	2°25	8°31	W28
T 29	6 30 4	7°15'04	15°10	15° 7	13° 0	5° 1	9°59	2°15	2°38	21°53	1°12	9°D28	10°53	2°32	8°30	T 29
F 30	6 34 0	8°16'11	27° 2	16° 3	14°15	5°39	10° 4	2°19	2°37	21°55	1°11	9°29	10°50	2°38	8°29	F 30
S 31	6 37 57	9 <b>ට</b> 17'18	8 <b>m</b> 50	17 <b>⋌</b> 3	15 <b>云</b> 31	6 <b>Υ</b> 16	10 <b>Y</b> 10	2 <b>m</b> 24	2 <b>m</b> 35	21 <b>M</b> 57	1 <b>Ⅱ</b> 10	9 <b>£</b> 31	10 <b>Ω</b> 46	2 Mp 45	8 <b>8</b> 28	S 31

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T 1 F 2 S 3	21 s45 21 54 22 3	15 45 0n43		1 s30 21 s18 0n17 1 17 21 33 0 15 1 2 21 46 0 12	5 s 37 1 s 0 5 22 0 58 5 6 0 55	2 12 1 27	9 15 2 18	11n10 0n45 11 10 0 45 11 10 0 45	16 22 1 42		17 25 17	6 13 3	13n21 1s19 13 20 1 19 13 19 1 20
S 4 M 5 T 6 W 7 T 8 F 9	22 11 22 19 22 27 22 34 22 40 22 47	1 13 4 13 3s 4 4 44 7 20 5 2	23 50 0 23 30 0 23 8 0i 22 45 0	0 46 21 59 0 10 0 28 22 11 0 8 0 10 22 23 0 5 0 10 22 34 0 3 0 30 22 44 0 0 0 50 22 54 0s 2	4 50 0 53 4 35 0 51 4 19 0 49 4 3 0 47 3 47 0 45 3 31 0 43	2 13 1 26 2 13 1 26 2 13 1 26 2 14 1 25 2 14 1 25 2 15 1 25	9 21 2 19 9 23 2 19 9 25 2 19 9 27 2 19		16 23 1 42 16 24 1 42 16 24 1 42 16 25 1 42	7 8 13 36 7 8 13 36 7 7 13 36 7 7 13 36		8 12 59 9 12 57 0 12 56 1 12 54	13 17 1 20 13 16 1 20 13 16 1 20
S 10 S 11 M12 T 13 W14 T 15	22 52 22 58 23 2 23 7 23 11	14 59 4 52 17 53 4 22 19 47 3 35 20 28 2 34	21 56 1 21 31 1 21 6 1 20 43 2 20 21 2	1 10 23 3 0 4 1 30 23 11 0 7 1 47 23 18 0 9	3 15 0 41 2 59 0 39 2 43 0 37 2 27 0 35 2 11 0 33 1 55 0 31	2 16 1 25	9 30 2 20 9 32 2 20	11 10 0 46 11 10 0 46 11 10 0 46 11 10 0 46	16 26 1 42 16 26 1 42 16 27 1 42 16 27 1 42 16 28 1 42	7 7 13 35 7 7 13 35 7 7 13 35 7 7 13 35 7 7 13 35	17 34 17 1 17 37 17 1 17 39 17 1 17 40 17 1 17 41 17 1 17 42 17 1	3 12 51 4 12 49 5 12 48 5 12 46 6 12 45	13 14 1 20
F 16 S 17 S 18	23 17 23 20 23 22	10 55 2 23 6 25 3 26	19 45 2 19 32 2 19 22 2	2 39 23 41 0 19 2 46 23 45 0 21 2 51 23 48 0 23	1 39 0 30 1 23 0 28 1 7 0 26	2 22 1 23 2 23 1 22 2 24 1 22	9 41 2 21 9 42 2 21 9 44 2 21	11 11 0 46 11 11 0 46 11 11 0 46	16 29 1 42 16 29 1 42 16 30 1 42	7 7 13 35 7 7 13 34 7 7 13 34	17 41 17 1 17 41 17 1 17 41 17 2	8 12 41 9 12 40 20 12 38	13 10 1 20 13 10 1 20 13 9 1 20
M19 T 20 W21 T 22 F 23 S 24		1 38 4 16 3n11 4 51 7 46 5 8 11 55 5 8 15 24 4 51 18 4 4 19	19 12 2 19 12 2 19 15 2 19 20 2	2 54 23 51 0 26 2 55 23 52 0 28 2 54 23 53 0 30 2 52 23 54 0 32 2 49 23 53 0 35 2 44 23 52 0 37	0 51 0 24 0 34 0 23 0 18 0 21 0 2 0 19 0n14 0 18 0 31 0 16	2 32 1 21	9 47 2 22 9 49 2 22 9 50 2 22 9 52 2 22	11 12 0 46 11 12 0 46 11 12 0 46 11 12 0 46 11 13 0 46 11 13 0 46	16 31 1 42 16 31 1 42 16 32 1 42	7 7 13 34 7 7 13 34 7 7 13 34 7 7 13 33	17 41 17 2 17 42 17 2 17 43 17 2 17 44 17 2 17 46 17 2 17 48 17 2	12 12 35 12 12 33 13 12 32 14 12 30	13 8 1 20 13 7 1 20 13 7 1 20 13 6 1 20
S 25 M26 T 27 W28 T 29 F 30 S 31	23 21 23 19 23 16 23 13	20 9 1 39 18 53 0 34 16 46 0n31 13 59 1 35	19 47 2 19 59 2 20 12 2 20 25 2 20 39 2	2 39 23 50 0 39 2 33 23 47 0 41 2 26 23 44 0 43 2 19 23 39 0 45 2 11 23 34 0 47 2 3 23 29 0 50 1n55 23 \$22 0 \$52	0 47 0 14 1 3 0 13 1 19 0 11 1 36 0 10 1 52 0 8 2 8 0 7 2n24 0s 5	2 44 1 19 2 47 1 19	9 56 2 23 9 57 2 23 9 59 2 23 10 0 2 23 10 1 2 24	11 14 0 46 11 14 0 46 11 15 0 46 11 15 0 46 11 16 0 46	16 34 1 42 16 34 1 42 16 35 1 42	7 7 13 33 7 7 13 33 7 7 13 33 7 7 13 32 7 7 13 32	17 49 17 2 17 51 17 2 17 52 17 2 17 52 17 2 17 52 17 3 17 52 17 3 17n51 17n3	7 12 25 8 12 24 8 12 22 9 12 21 60 12 19	13 5 1 20 13 4 1 20 13 4 1 20 13 4 1 20 13 3 1 20

Julian Day Number = 2498995.5, Delta T = 108.91 sec Ecliptic obliquity =  $23^{\circ}25'14$ , Nutation = - $0^{\circ}00'14$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}33'20$ , Lahiri =  $25^{\circ}40'20$