

# Astrodienst Ephemeris Tables for the year 2113

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 2113 00:00 UT

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Day	Sid.t	0	D	ğ	·	ð	4	ħ	)∤(	并	В	n	S	Ç	ķ	Day
S 1	6 42 21	10 ට 26 33	25 <b>II</b> 57	15 <b>石</b> 49	26≈40	22 <b>)</b> 51	20 <b>M</b> .36	11 <b>米</b> 58	12°R19	15 <b>≏</b> 40	14°R56	9937	9930	1 <b>≏</b> 12	4 <b>)</b> (26	S 1
M 2	6 46 18	11°27'41	99515	17°27	27°33	23°33	20°47	12° 2	12 <b>Ⅱ</b> 17	15°40	14856	9°R37	9°27	1°19	4°28	M 2
T 3	6 50 14	12°28'49	22°17	19° 4	28°24	24°16	20°57	12° 7	12°14	15°41	14°55	9°37	9°24	1°26	4°31	T 3
W 4	6 54 11	13°29'57	5 <b>Ω</b> 3	20°42	29°14	24°59	21° 8	12°12	12°12	15°41	14°54	9°37	9°21	1°32	4°34	W 4
T 5	6 58 7	14°31'05	17°34	22°20	0 <b>) (</b> 4	25°41	21°18	12°17	12°10	15°42	14°54	9°36	9°18	1°39	4°37	T 5
F 6	7 2 4	15°32'13	29°51	23°58	0°53	26°24	21°28	12°22	12° 8	15°42	14°53	9°36	9°15	1°46	4°40	F 6
S 7	7 6 0	16°33'21	11 <b>m</b> 56	25°37	1°41	27° 7	21°38	12°27	12° 6	15°43	14°53	9°35	9°11	1°53	4°43	S 7
S 8	7 9 57	17°34'29	23°53	27°15	2°28	27°49	21°48	12°32	12° 4	15°43	14°53	9°34	9°8	1°59	4°46	S 8
M 9	7 13 53	18°35'38	5 <b>≏</b> 46	28°54	3°14	28°32	21°58	12°38	12° 2	15°43	14°52	9°33	9° 5	2° 6	4°49	M 9
T 10	7 17 50	19°36'46	17°39	0≈33	3°59	29°15	22° 8	12°43	12° 1	15°43	14°52	9°D33	9° 2	2°13	4°52	T 10
W11	7 21 47	20°37'55	29°37	2°12	4°43	29°57	22°17	12°48	11°59	15°44	14°51	9°33	8°59	2°19	4°55	W11
T 12	7 25 43	21°39'04	11 <b>M</b> .43	3°50	5°26	0 <b>Υ</b> 40	22°27	12°54	11°57	15°44	14°51	9°34	8°56	2°26	4°58	T 12
F 13	7 29 40	22°40'12	24° 4	5°28	6° 8	1°23	22°36	12°59	11°55	15°44	14°51	9°35	8°52	2°33	5° 1	F 13
S 14	7 33 36	23°41'21	6 <b>₹</b> 43	7° 6	6°49	2° 5	22°45	13° 5	11°53	15°44	14°50	9°36	8°49	2°40	5° 5	S 14
S 15	7 37 33	24°42'30	19°43	8°43	7°29	2°48	22°55	13°11	11°52	15°44	14°50	9°37	8°46	2°46	5°8	S 15
M16	7 41 29	25°43'38	3ਰ 5	10°20	8° 7	3°31	23° 4	13°16	11°50	15°44	14°50	9°R38	8°43	2°53	5°11	M16
T 17	7 45 26	26°44'47	16°50	11°55	8°44	4°13	23°13	13°22	11°49	15°R44	14°49	9°38	8°40	3° 0	5°15	T 17
W18	7 49 22	27°45'54	0≈54	13°30	9°20	4°56	23°22	13°28	11°47	15°44	14°49	9°37	8°36	3° 7	5°18	W18
T 19	7 53 19	28°47'02	15°15	15° 2	9°54	5°39	23°30	13°34	11°45	15°44	14°49	9°35	8°33	3°13	5°21	T 19
F 20	7 57 16	29°48'08	29°47	16°33	10°27	6°21	23°39	13°40	11°44	15°44	14°49	9°32	8°30	3°20	5°25	F 20
S 21	8 1 12	0≈49'14	14 <b>米</b> 22	18° 1	10°58	7° 4	23°48	13°46	11°43	15°44	14°49	9°29	8°27	3°27	5°28	S 21
S 22	8 5 9	1°50'19	28°55	19°26	11°28	7°47	23°56	13°52	11°41	15°44	14°48	9°27	8°24	3°33	5°32	S 22
M23	8 9 5	2°51'23	13 <b>Y</b> 21	20°48	11°56	8°29	24° 4	13°58	11°40	15°44	14°48	9°24	8°21	3°40	5°35	M23
T 24	8 13 2	3°52'26	27°36	22° 6	12°22	9°12	24°12	14° 4	11°39	15°43	14°48	9°D23	8°17	3°47	5°39	T 24
W25	8 16 58	4°53'29	11837	23°19	12°46	9°54	24°20	14°11	11°37	15°43	14°48	9°23	8°14	3°54	5°42	W25
T 26	8 20 55	5°54'30	25°24	24°26	13° 9	10°37	24°28	14°17	11°36	15°43	14°48	9°24	8°11	4° 0	5°46	T 26
F 27	8 24 51	6°55'30	8 <b>II</b> 56	25°27	13°30	11°20	24°36	14°23	11°35	15°42	14°48	9°26	8° 8	4° 7	5°50	F 27
S 28	8 28 48	7°56'29	22°14	26°21	13°49	12° 2	24°43	14°30	11°34	15°42	14°D48	9°28	8° 5	4°14	5°53	S 28
S 29	8 32 45	8°57'27	5920	27° 7	14° 5	12°45	24°51	14°36	11°33	15°42	14°48	9°R28	8° 2	4°21	5°57	S 29
M30	8 36 41	9°58'24	18°13	27°44	14°20	13°27	24°58	14°42	11°32	15°41	14°48	9°28	7°58	4°27	6° 1	M30
T 31	8 40 38	10≈59'20	0 <b>Ω</b> 55	28≈12	14 <b>)</b> 32	14 <b>Y</b> 10	25 <b>M</b> 5	14 <b>) (</b> 49	11 <b>II</b> 31	15 <b>≏</b> 41	14848	9926	7 <b>9</b> 55	4 <b>º</b> 34	6 <b>光</b> 4	T 31

Day	0	D	ğ	·	ď	4	ħ	)∤(	<del>1</del> t	Р	w v	Ç	ę,
	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	22 56 22 50 22 44 22 38 22 31	23 4 0 2 22 44 1n10 21 12 2 16 18 39 3 15	2 24 20 2 24 9 2 5 23 56 2 5 23 41 2 2 23 25 2	2 13 s24 0 s50 4 13 0 0 43 6 12 36 0 36 7 12 11 0 29 8 11 47 0 22 9 11 22 0 14 9 10 58 0 6	3 3 0 32 2 45 0 31 2 27 0 29 2 9 0 28 1 50 0 27	16 58 1 0 17 1 1 0 17 3 1 1 17 6 1 1	8 47 1 53 8 45 1 53 8 43 1 53 8 41 1 53 8 39 1 53	22 14 0 1	4s45 1n32 4 45 1 32 4 46 1 32	1n 4 15 s54 1 4 15 54 1 4 15 53 1 4 15 53 1 5 15 53 1 5 15 53 1 5 15 55	23 5 23 5 23 5 23 6 23 5 23 6 23 5 23 6 23 5 23 6	4 9 4 6 4 4	4 s51 5n24 4 50 5 23 4 50 5 23 4 49 5 23 4 48 5 23 4 47 5 22 4 47 5 22
	22 16 22 8 21 59 21 50 21 41 21 31	7 5 5 5 5 2 33 5 16 2s 5 5 14 6 41 4 58 11 5 4 28 15 7 3 46	5 22 47 2 5 22 26 2 7 22 4 2 8 21 40 2 8 21 15 2	8 10 34 0n 2 7 10 9 0 10 6 9 45 0 19 4 9 21 0 28 1 8 56 0 37 8 8 32 0 46	1 14 0 24 0 56 0 23 0 38 0 22 0 20 0 21 0 2 0 20 0n16 0 18	17 13 1 1 17 16 1 1 17 18 1 1	8 35 1 52 8 33 1 52 8 31 1 52 8 28 1 52 8 26 1 52 8 24 1 52	22 13 0 1 22 13 0 1 22 12 0 1 22 12 0 1 22 12 0 1	4 46 1 32 4 46 1 32 4 46 1 32 4 46 1 33 4 46 1 33 4 46 1 33	1 5 15 52 1 5 15 52 1 6 15 51 1 6 15 51 1 6 15 51 1 6 15 50	23 5 23 7 23 5 23 8	3 54 3 51 3 49 3 46 3 43 3 41 3 38	4 46 5 22 4 45 5 21 4 44 5 21 4 43 5 21 4 42 5 21 4 41 5 20 4 40 5 20
S 15 M16 T 17 W18	20 59 20 48 20 36 20 23 20 11	22 47 0 36 23 1 0s40 21 49 1 55 19 11 3 4 15 19 4 2	18 47 1 3 5 18 14 1 3 17 40 1 2 17 5 1 1	7 45 1 5 5 7 21 1 15 9 6 58 1 26 3 6 35 1 36 5 6 12 1 47	1 10 0 15 1 28 0 14 1 46 0 13 2 4 0 12 2 22 0 11	17 30 1 2 17 32 1 2 17 34 1 2 17 36 1 2 17 38 1 2 17 40 1 2 17 42 1 2	8 20 1 52 8 17 1 52	22 11 0 1 22 11 0 1 22 11 0 1 22 11 0 1 22 10 0 1 22 10 0 1	4 46 1 33 4 45 1 33 4 45 1 33	1 7 15 50 1 7 15 49 1 7 15 49 1 7 15 49 1 8 15 48 1 8 15 48 1 8 15 48	23 5 23 8 23 4 23 8 23 4 23 8 23 5 23 9 23 5 23 9 23 5 23 9	3 36 3 33 3 30 3 28 3 25 3 23 3 20	4 37 5 19 4 36 5 19 4 35 5 19
S 22 M23 T 24 W25 T 26 F 27 S 28 S 29	18 32 18 16	0n27 5 14 5 58 4 59 11 5 4 26 15 33 3 39 19 9 2 40 21 39 1 33	0 13 31 0 0 12 57 0n 3 12 25 0 2	17	3 15 0 7 3 33 0 6 3 50 0 5 4 8 0 4 4 26 0 3 4 43 0 2	17 50 1 3 17 52 1 3 17 53 1 3 17 55 1 3	8 3 1 51 8 1 1 51 7 58 1 51 7 56 1 51 7 53 1 51 7 51 1 51 7 48 1 51	22 10 0 0 22 10 0 0 22 9 0 0	4 45 1 33 4 45 1 33 4 45 1 33 4 45 1 33 4 44 1 33 4 44 1 33	1 9 15 47 1 9 15 47 1 9 15 46 1 10 15 46 1 10 15 46 1 10 15 45	23 5 23 10 23 6 23 10 23 6 23 10 23 5 23 10 23 5 23 10 23 5 23 11	3 15 3 12 3 10 3 7 3 5 3 2	4 31 5 18 4 30 5 18 4 29 5 17 4 28 5 17 4 27 5 17 4 26 5 17
M30 T 31	17 44	22 58 0n48	8 11 54 0 3 8 11 26 0 5 6 11s 0 1n1	3 2 28 4 0	5 18 0 0		7 46 1 51 7 43 1 51 7 s41 1 s51		4 44 1 34	1 11 15 45 1 11 15 45 1n11 15 s44		2 59 2 57 2n54	4 24 5 16

Julian Day Number = 2492817.5, Delta T = 99.54 sec Ecliptic obliquity =  $23^{\circ}25'26$ , Nutation = -  $0^{\circ}00'17$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'09$ , Lahiri =  $25^{\circ}26'09$ 

FEBRUARY 2113 00:00 UT

Day	Sid.t	0	D	ğ	·	ð	4	ħ	)ұ(	并	Р	V	v	Ç	ķ	Day
W 1	8 44 34	12≈ 0'15	13 <b>N</b> 26	28≈29	14 <b>) (</b> 42	14 <b>Y</b> 52	25 <b>M</b> 12	14 <b>) (</b> 56	11°R30	15°R40	14848	9°R23	7952	4 <b>º</b> 41	6 <b>∺</b> 8	W 1
T 2	8 48 31	13° 1'09	25°46	28°R35	14°50	15°34	25°19	15° 2	11 <b>Ⅱ</b> 29	15 <b>♀</b> 40	14°48	99518	7°49	4°47	6°12	T 2
F 3	8 52 27	14° 2'02	7 <b>m</b> 57	28°31	14°56	16°17	25°26	15° 9	11°28	15°39	14°48	9°11	7°46	4°54	6°16	F 3
S 4	8 56 24	15° 2'54	19°59	28°15	14°59	16°59	25°33	15°16	11°27	15°39	14°49	9° 4	7°42	5° 1	6°19	S 4
S 5	9 0 20	16° 3'45	1 <b>≏</b> 55	27°48	14°R59	17°42	25°39	15°22	11°27	15°38	14°49	8°58	7°39	5° 8	6°23	S 5
M 6	9 4 17	17° 4'35	13°47	27°10	14°57	18°24	25°45	15°29	11°26	15°37	14°49	8°52	7°36	5°14	6°27	M 6
T 7	9 8 14	18° 5'24	25°39	26°23	14°53	19° 6	25°52	15°36	11°26	15°37	14°49	8°47	7°33	5°21	6°31	T 7
W 8	9 12 10	19° 6'13	7 <b>M</b> 34	25°28	14°46	19°49	25°58	15°43	11°25	15°36	14°49	8°45	7°30	5°28	6°35	W 8
T 9	9 16 7	20° 7'00	19°38	24°26	14°37	20°31	26° 3	15°50	11°24	15°35	14°49	8°D44	7°27	5°34	6°39	T 9
F 10	9 20 3	21° 7'47	1 <b>₹</b> 55	23°18	14°25	21°13	26° 9	15°57	11°24	15°34	14°50	8°44	7°23	5°41	6°43	F 10
S 11	9 24 0	22° 8'32	14°30	22° 8	14°11	21°55	26°15	16° 3	11°24	15°34	14°50	8°46	7°20	5°48	6°46	S 11
S 12	9 27 56	23° 9'17	27°27	20°57	13°54	22°38	26°20	16°10	11°23	15°33	14°50	8°47	7°17	5°55	6°50	S 12
M13	9 31 53	24°10'00	10 <b>궁</b> 50	19°46	13°35	23°20	26°25	16°17	11°23	15°32	14°51	8°R48	7°14	6° 1	6°54	M13
T 14	9 35 49	25°10'43	24°41	18°38	13°13	24° 2	26°30	16°25	11°23	15°31	14°51	8°47	7°11	6° 8	6°58	T 14
W15	9 39 46	26°11'24	8≈58	17°34	12°50	24°44	26°35	16°32	11°23	15°30	14°51	8°43	7° 8	6°15	7° 2	W15
T 16	9 43 43	27°12'04	23°38	16°36	12°24	25°26	26°40	16°39	11°22	15°29	14°52	8°38	7° 4	6°22	7° 6	T 16
F 17	9 47 39	28°12'42	8 <b>) (</b> 34	15°44	11°56	26° 8	26°45	16°46	11°22	15°28	14°52	8°30	7° 1	6°28	7°10	F 17
S 18	9 51 36	29°13'19	23°38	15° 0	11°26	26°50	26°49	16°53	11°D22	15°27	14°53	8°22	6°58	6°35	7°14	S 18
S 19	9 55 32	0 <b>)</b> 13′54	8 <b>Y</b> 38	14°22	10°54	27°33	26°53	17° 0	11°22	15°26	14°53	8°14	6°55	6°42	7°18	S 19
M20	9 59 29	1°14'27	23°27	13°53	10°21	28°15	26°57	17° 7	11°22	15°25	14°54	8° 8	6°52	6°48	7°22	M20
T 21	10 3 25	2°14'59	7 <b>8</b> 57	13°31	9°47	28°57	27° 1	17°15	11°23	15°24	14°54	8° 3	6°48	6°55	7°26	T 21
W22	10 7 22	3°15'29	22° 6	13°17	9°12	29°39	27° 5	17°22	11°23	15°23	14°55	8° 0	6°45	7° 2	7°30	W22
T 23	10 11 18	4°15'57	5 <b>Ⅱ</b> 51	13°D10	8°35	0 <b>8</b> 20	27° 8	17°29	11°23	15°22	14°55	8°D 0	6°42	7° 9	7°34	T 23
F 24	10 15 15	5°16'23	19°15	13°10	7°58	1° 2	27°12	17°36	11°23	15°21	14°56	8° 0	6°39	7°15	7°38	F 24
S 25	10 19 12	6°16'48	29520	13°17	7°21	1°44	27°15	17°44	11°24	15°19	14°56	8°R 1	6°36	7°22	7°42	S 25
S 26	10 23 8	7°17'10	15° 8	13°30	6°43	2°26	27°18	17°51	11°24	15°18	14°57	8° 1	6°33	7°29	7°46	S 26
M27	10 27 5	8°17'31	27°43	13°48	6° 6	3° 8	27°21	17°58	11°25	15°17	14°57	7°59	6°29	7°36	7°50	M27
T 28	10 31 1	9 <b>)</b> 17'49	10 <b>Ω</b> 7	14≈13	5 <b>∺</b> 29	3 <b>8</b> 50	27 <b>M</b> 23	18 <b>米</b> 6	11 <b>II</b> 25	15 <b>≏</b> 16	14 <b>8</b> 58	7954	69526	7 <b>≏</b> 42	7 <b>) (</b> 54	T 28

Day	0	D	ğ	ρ	♂	4	ħ	)∤(	¥	В	v v	ţ	, 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
W 1 T 2	17s11 16 54		10s38 1n27		5n53 On 2		7s38 1s51 7 35 1 50			1n12 15s44 1 12 15 44	23n 6 23n11 23 6 23 12	2n52 2 49	4s21 5n16 4 20 5 16
F 3 S 4	16 36 16 19	12 41 4 26 8 27 4 53	10 5 2 2	1 25 4 53	6 27 0 4 6 44 0 5	18 5 1 4	7 33 1 50 7 30 1 50	22 8 0 0	4 43 1 34	1 12 15 43 1 13 15 43	23 6 23 12	2 46 2 44	4 19 5 16 4 18 5 16
S 5 M 6 T 7	16 1 15 42 15 24	3 57 5 8 0s41 5 9 5 18 4 57	9 47 2 50	0 47 5 34	7 2 0 6 7 19 0 7 7 35 0 7	18 9 1 4		22 8 0 0	4 42 1 34	1 13 15 43 1 14 15 42 1 14 15 42	23 8 23 12	2 41 2 38 2 36	4 16 5 15 4 15 5 15 4 14 5 15
W 8 T 9 F 10	15 5 14 46 14 27	9 44 4 32 13 52 3 55	9 58 3 15	0 26 6 1 0 18 6 14	7 52 0 8 8 9 0 9 8 26 0 10	18 12 1 4 18 13 1 4	7 19 1 50 7 17 1 50	22 8 0 0 22 8 0 0	4 41 1 34 4 41 1 34	1 14 15 41 1 15 15 41 1 15 15 41	23 8 23 13 23 8 23 13	2 33 2 31 2 28	4 13 5 15 4 11 5 15 4 10 5 15
S 11 S 12	14 7	20 25 2 8		0 4 6 40	8 42 0 11	-	7 11 1 50	22 8 0 0	4 40 1 34	1 16 15 40 1 16 15 40	23 8 23 13	2 25	4 9 5 15 4 7 5 14
M13 T 14 W15	13 27 13 7	23 10 0s11 22 34 1 25 20 30 2 35	11 22 3 42 11 45 3 40	0 6 7 5 0 8 7 17		18 17 1 5 18 18 1 5	7 6 1 50 7 3 1 50	22 8 0 0 22 8 0 0	4 40 1 34 4 39 1 34	1 16 15 40 1 17 15 39 1 17 15 39	23 8 23 14 23 8 23 14	2 20 2 17 2 15	
T 16 F 17 S 18	12 26 12 5 11 44	17 3 3 37 12 27 4 26	12 31 3 30	0 10 7 39 0 9 7 49	10 4 0 15 10 20 0 16	18 20 1 5 18 21 1 6 18 22 1 6	6 55 1 50	22 8 0 0 22 8 0 0		1 18 15 39 1 18 15 38	23 9 23 14	2 12 2 10 2 7	4 2 5 14 4 1 5 14 3 59 5 14
S 19 M20 T 21	11 23 11 2 10 40		13 35 3 3 13 54 2 52 14 12 2 40	0s 1 8 16	11 8 0 19	18 23 1 6 18 24 1 6 18 24 1 6	6 46 1 50	22 8 0 0	4 37 1 35	1 19 15 37	23 10 23 15 23 11 23 15 23 11 23 15 23 11 23 15	2 4 2 2 1 59	
W22 T 23 F 24	10 18 9 56	14 44 3 41 18 35 2 43		0 15 8 29 0 23 8 35	11 39 0 20 11 55 0 21	18 25 1 6 18 26 1 6	6 41 1 50 6 38 1 50	22 8 0 0 22 8 0 0	4 36 1 35	1 20 15 37 1 21 15 36	23 11 23 15 5 23 11 23 15 5 23 11 23 15 6 23 11 23 15	1 56 1 54 1 51	
S 25 S 26	8 50		15 14 1 36	0 53 8 46	12 40 0 23	18 27 1 7 18 28 1 7		22 8 0 0	4 34 1 35	1 22 15 35	23 11 23 16	-	
M27 T 28			15 21 1 23 15 s26 1n10		12 55 0 24 13n10 0n25	18 28 1 7 18 s 29 1 n 7		22 8 0 0 22n 8 0s 0	. 55 1 55		23 11 23 16 23n11 23n16	1 43 1n40	3 47 5 13 3 s45 5 n13

Julian Day Number = 2492848.5, Delta T = 99.59 sec Ecliptic obliquity = 23°25'27, Nutation = -0°00'15, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°19'13, Lahiri = 25°26'14

MARCH 2113 00:00 UT

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Day	Sid.t	0	D	φ	φ	ď	4	ħ	)∤(	<del>\f</del>	Р	Ç	ນ	Ç	ę,	Day
W 1	10 34 58	10 <b>) 18'06</b>	22\O22	14≈42	4°R52	4 <b>8</b> 32	27 <b>M</b> 26	18 <b>)</b> 13	11 <b>II</b> 26	15°R14	14859	7°R47	6923	7 <b>Ω</b> 49	7 <b>)</b> €58	W 1
T 2	10 38 54	11°18'21	4 Mp 30	15°16	4 <b>) (</b> 17	5°13	27°28	18°20	11°26	15 <b>Ω</b> 13	14°59	7 <b>9</b> 37	6°20	7°56	8° 2	T 2
F 3	10 42 51	12°18'34	16°32	15°55	3°42	5°55	27°30	18°28	11°27	15°12	15° 0	7°25	6°17	8° 2	8° 6	F 3
S 4	10 46 47	13°18'45	28°30	16°37	3° 9	6°37	27°32	18°35	11°28	15°11	15° 1	7°12	6°14	8° 9	8°10	S 4
S 5	10 50 44	14°18'55	10 <b>≏</b> 23	17°24	2°38	7°18	27°34	18°42	11°28	15° 9	15° 2	6°59	6°10	8°16	8°14	S 5
M 6	10 54 40	15°19'03	22°15	18°13	2° 8	8° 0	27°35	18°50	11°29	15° 8	15° 2	6°48	6° 7	8°23	8°18	M 6
T 7	10 58 37	16°19'09	4M 7	19° 6	1°40	8°42	27°37	18°57	11°30	15° 6	15° 3	6°38	6° 4	8°29	8°22	T 7
W 8	11 2 34	17°19'14	16° 2	20° 3	1°14	9°23	27°38	19° 4	11°31	15° 5	15° 4	6°31	6° 1	8°36	8°26	W 8
T 9	11 630	18°19'17	28° 5	21° 2	0°50	10° 5	27°39	19°12	11°32	15° 4	15° 5	6°27	5°58	8°43	8°30	T 9
F 10	11 10 27	19°19'18	10 <b>×</b> 18	22° 3	0°29	10°46	27°40	19°19	11°33	15° 2	15° 5	6°25	5°54	8°49	8°34	F 10
S 11	11 14 23	20°19'18	22°48	23° 7	0°10	11°28	27°40	19°27	11°34	15° 1	15° 6	6°D24	5°51	8°56	8°38	S 11
S 12	11 18 20	21°19'17	5 <b>云</b> 39	24°14	29≈53	12° 9	27°41	19°34	11°35	14°59	15° 7	6°R25	5°48	9° 3	8°42	S 12
M13	11 22 16	22°19'14	18°56	25°23	29°39	12°51	27°41	19°41	11°36	14°58	15° 8	6°24	5°45	9°10	8°46	M13
T 14	11 26 13	23°19'09	2≈41	26°33	29°27	13°32	27°R41	19°49	11°38	14°56	15° 9	6°22	5°42	9°16	8°50	T 14
W15	11 30 9	24°19'02	16°56	27°46	29°17	14°13	27°41	19°56	11°39	14°55	15°10	6°17	5°39	9°23	8°54	W15
T 16	11 34 6	25°18'54	1 <b>∺</b> 39	29° 1	29°11	14°55	27°41	20° 4	11°40	14°53	15°11	6° 9	5°35	9°30	8°58	T 16
F 17	11 38 3	26°18'43	16°43	0 <b>∺</b> 17	29° 6	15°36	27°40	20°11	11°42	14°52	15°12	6° 0	5°32	9°37	9° 1	F 17
S 18	11 41 59	27°18'31	2 <b>Υ</b> 1	1°36	29°D 4	16°17	27°39	20°18	11°43	14°50	15°13	5°48	5°29	9°43	9° 5	S 18
S 19	11 45 56	28°18'17	17°19	2°55	29° 5	16°58	27°39	20°26	11°44	14°49	15°14	5°37	5°26	9°50	9° 9	S 19
M20	11 49 52	29°18'01	2 <b>8</b> 27	4°17	29° 7	17°40	27°37	20°33	11°46	14°47	15°15	5°27	5°23	9°57	9°13	M20
T 21	11 53 49	0 <b>Υ</b> 17'42	17°16	5°40	29°13	18°21	27°36	20°40	11°48	14°45	15°16	5°20	5°19	10° 3	9°17	T 21
W22	11 57 45	1°17'22	1 <b>II</b> 39	7° 5	29°20	19° 2	27°35	20°48	11°49	14°44	15°17	5°15	5°16	10°10	9°20	W22
T 23	12 1 42	2°16'59	15°34	8°31	29°29	19°43	27°33	20°55	11°51	14°42	15°18	5°13	5°13	10°17	9°24	T 23
F 24	12 5 38	3°16'34	29° 1	9°58	29°41	20°24	27°31	21° 2	11°53	14°41	15°19	5°12	5°10	10°24	9°28	F 24
S 25	12 9 35	4°16'07	1295 5	11°27	29°55	21° 5	27°29	21°10	11°54	14°39	15°20	5°12	5° 7	10°30	9°32	S 25
S 26	12 13 32	5°15'37	24°47	12°58	0 <b>∺</b> 11	21°46	27°27	21°17	11°56	14°37	15°21	5°11	5° 4	10°37	9°35	S 26
M27	12 17 28	6°15'05	$7\Omega$ 13	14°29	0°29	22°27	27°25	21°24	11°58	14°36	15°22	5° 9	5° 0	10°44	9°39	M27
T 28	12 21 25	7°14'31	19°27	16° 2	0°48	23° 8	27°22	21°31	12° 0	14°34	15°23	5° 3	4°57	10°50	9°43	T 28
W29	12 25 21	8°13'54	1 <b>m</b> 32	17°37	1°10	23°49	27°19	21°38	12° 2	14°33	15°24	4°55	4°54	10°57	9°46	W29
T 30	12 29 18	9°13'16	13°31	19°13	1°33	24°30	27°16	21°46	12° 4	14°31	15°25	4°44	4°51	11° 4	9°50	T 30
F 31	12 33 14	10 <b>Y</b> 12'35	25 Mg 26	20 <b>∺</b> 50	1 <b>∺</b> 58	25 <b>8</b> 11	27 <b>M</b> 13	21 <b>米</b> 53	12 <b>II</b> 6	14 <b>≏</b> 29	15 <b>8</b> 26	4931	49548	11 <b>≏</b> 11	9 <b>) (</b> 54	F 31

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	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl decl	decl	decl lat
W 1 T 2 F 3 S 4	7 s42 7 19 6 56 6 33	13 47 4 14 9 39 4 42	15 s30 On5 15 32 O 4 15 32 O 3 15 31 O 2	5 1 45 8 46 3 2 0 8 44	13n25 0n25 13 40 0 26 13 54 0 27 14 9 0 27	18 29 1 7 18 30 1 7	6s21 1s50 6 18 1 50 6 15 1 50 6 12 1 50	22 8 0 0	4 32 1 35 4 31 1 35	1 24 15 34 1 25 15 34	23n12 23n16 23 12 23 16 23 13 23 17 23 14 23 17	1n38 1 35 1 32 1 30	3 s44 5n13 3 42 5 13 3 41 5 13 3 39 5 13
S 5 M 6 T 7 W 8 T 9	6 10 5 47 5 24 5 0	0 31 5 1 4s 9 4 51 8 40 4 28 12 54 3 54	15 27 0 10 15 23 0s 15 16 0 13	0 2 29 8 37 1 2 44 8 32 2 2 59 8 26 2 3 14 8 20	14 23 0 28 14 37 0 29 14 51 0 30	18 30 1 8 18 30 1 8 18 31 1 8 18 31 1 8	6 9 1 50 6 6 1 50 6 4 1 50 6 1 1 50 5 58 1 50	22 9 0 0 22 9 0 0 22 9 0 0 22 9 0 0	4 30 1 35 4 30 1 35 4 29 1 35 4 28 1 35	1 26 15 33 1 26 15 33 1 26 15 33 1 27 15 32	23 14 23 17 23 15 23 17 23 16 23 17 23 16 23 17 23 16 23 17 23 16 23 17	1 27 1 24 1 22 1 19 1 16	3 38 5 13 3 37 5 13 3 35 5 13 3 34 5 13
F 10 S 11 S 12	3 50	22 2 1 12	14 48 0 4 14 36 0 5 14 22 0 5	1 3 58 7 57	15 46 0 32	18 31 1 9	5 55 1 50 5 52 1 50 5 49 1 50	22 9 0 0	4 27 1 35	1 28 15 32	23 16 23 18 23 16 23 18 23 16 23 18	1 14 1 11 1 8	3 31 5 13 3 29 5 13 3 28 5 13
M13 T 14 W15 T 16 F 17 S 18	3 3	23 11 1s 6 21 44 2 14 18 52 3 17 14 45 4 8 9 35 4 44	14 7 1 13 50 1 1 13 32 1 2 13 13 1 3	7 4 25 7 39 5 4 38 7 29 3 4 51 7 19 0 5 3 7 9 6 5 14 6 58	16 13 0 33 16 26 0 34 16 39 0 35 16 52 0 35 17 4 0 36	18 31 1 9 18 31 1 9 18 30 1 9 18 30 1 9	5 46 1 50 5 43 1 50 5 41 1 51 5 38 1 51 5 35 1 51	22 10 0 0 22 10 0 0 22 10 0n 0 22 10 0 0	4 25 1 35 4 25 1 35 4 24 1 35 4 24 1 35 4 23 1 36	1 29 15 31 1 30 15 31 1 30 15 30 1 31 15 30 1 32 15 30	23 16 23 18 23 16 23 18 23 17 23 18 23 17 23 18 23 17 23 19 23 18 23 19	1 6 1 3 1 0 0 58 0 55 0 52	3 26 5 13 3 25 5 13 3 25 5 13 3 22 5 13 3 20 5 13 3 19 5 13
S 19 M20 T 21 W22 T 23 F 24 S 25	0 54 1 18	2n16  4 54 8 7  4 28 13 23  3 44 17 45  2 47 20 57  1 42 22 53  0 33 23 29  0n36	11 42 1 5 11 16 1 5 10 48 2 10 20 2 9 50 2 10	3 5 45 6 25 8 5 54 6 14 3 6 2 6 2 7 6 9 5 51 0 6 16 5 40	17 41 0 38 17 54 0 38 18 5 0 39 18 17 0 39 18 29 0 40		5 29 1 51 5 26 1 51 5 24 1 51 5 21 1 51 5 18 1 51 5 15 1 51 5 12 1 51	22 11 0 0 22 11 0 0 22 12 0 0 22 12 0 0 22 12 0 0	4 19 1 36 4 19 1 36	1 33 15 29 1 34 15 29 1 34 15 29 1 35 15 28 1 35 15 28	23 18 23 19 23 19 23 20	0 50 0 47 0 44 0 42 0 39 0 36 0 33	3 18 5 13 3 16 5 13 3 15 5 13 3 13 5 13 3 12 5 13 3 10 5 13 3 9 5 13
S 26 M27 T 28 W29 T 30 F 31	2 29 2 52	14 50 4 11	8 14 2 1 7 39 2 2 7 3 2 2 6 27 2 2	8 6 32 5 5 0 6 36 4 54 1 6 39 4 43 2 6 41 4 31	19 13 0 42 19 24 0 43 19 35 0 43	18 25 1 11 18 25 1 11 18 24 1 11	5 10 1 51 5 7 1 51 5 4 1 51 5 1 1 52 4 59 1 52 4s56 1s52		4 17 1 36 4 16 1 36 4 15 1 36	1 37 15 27 1 37 15 27 1 38 15 27 1 38 15 27	23 19 23 20 23 19 23 20 23 20 23 20 23 20 23 20 23 20 23 20 23 20 23 20 23n21 23n20	0 31 0 28 0 25 0 23 0 20 0n17	3 7 5 14 3 6 5 14 3 4 5 14 3 3 5 14 3 2 5 14 3 s 0 5n14

Julian Day Number = 2492876.5, Delta T = 99.63 sec Ecliptic obliquity =  $23^{\circ}25'28$ , Nutation = -  $0^{\circ}00'16$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'17$ , Lahiri =  $25^{\circ}26'18$ 

APRIL 2113 00:00 UT

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Day	Sid.t	0	D	ğ	Ş	♂	4	ħ	)∤(	并	В	n	v	Ç	ķ	Day
S 1	12 37 11	11 <b>Y</b> 11'52	7 <u>ჲ</u> 20	22 <b>米</b> 29	2 <b>∺</b> 25	25 <b>8</b> 52	27°R10	22 <b>米</b> 0	12 <b>II</b> 8	14°R28	15 <b>8</b> 27	4°R16	49945	11 <b>≏</b> 17	9 <b>)</b> 57	S 1
S 2	12 41 7	12°11'06	19°12	24° 9	2°54	26°32	27 <b>m</b> 7	22° 7	12°10	14 <b>₽</b> 26	15°29	495 2	4°41	11°24	10° 1	S 2
M 3	12 45 4	13°10'19	1 <b>m</b> 5	25°50	3°24	27°13	27° 3	22°14	12°12	14°24	15°30	3°49	4°38	11°31	10° 4	M 3
T 4	12 49 1	14° 9'30	13° 1	27°33	3°55	27°54	26°59	22°21	12°14	14°23	15°31	3°38	4°35	11°38	10° 8	T 4
W 5	12 52 57	15° 8'39	25° 0	29°17	4°28	28°35	26°55	22°28	12°17	14°21	15°32	3°30	4°32	11°44	10°11	W 5
T 6	12 56 54	16° 7'47	7 <b>.₹</b> 6	1 <b>Υ</b> 3	5° 2	29°15	26°51	22°35	12°19	14°19	15°33	3°24	4°29	11°51	10°15	T 6
F 7	13 0 50	17° 6'52	19°23	2°50	5°38	29°56	26°47	22°42	12°21	14°18	15°35	3°22	4°25	11°58	10°18	F 7
S 8	13 4 47	18° 5'56	1 <b>る</b> 53	4°39	6°14	0Д37	26°43	22°49	12°24	14°16	15°36	3°D21	4°22	12° 4	10°21	S 8
S 9	13 8 43	19° 4'58	14°41	6°29	6°52	1°17	26°38	22°56	12°26	14°14	15°37	3°R21	4°19	12°11	10°25	S 9
M10	13 12 40	20° 3'58	27°52	8°20	7°32	1°58	26°33	23° 3	12°28	14°13	15°38	3°21	4°16	12°18	10°28	M10
T 11	13 16 36	21° 2'57	11≈28	10°13	8°12	2°38	26°28	23°10	12°31	14°11	15°40	3°19	4°13	12°25	10°31	T 11
W12	13 20 33	22° 1'54	25°33	12° 7	8°53	3°19	26°23	23°17	12°33	14°10	15°41	3°16	4°10	12°31	10°34	W12
T 13	13 24 30	23° 0'49	10 <b>米</b> 6	14° 3	9°36	3°59	26°18	23°23	12°36	14° 8	15°42	3° 9	4° 6	12°38	10°38	T 13
F 14	13 28 26	23°59'42	25° 2	16° 0	10°19	4°39	26°13	23°30	12°38	14° 6	15°43	3° 1	4° 3	12°45	10°41	F 14
S 15	13 32 23	24°58'33	10 <b>Y</b> 14	17°59	11° 4	5°20	26° 7	23°37	12°41	14° 5	15°45	2°51	4° 0	12°51	10°44	S 15
S 16	13 36 19	25°57'23	25°32	19°59	11°49	6° 0	26° 2	23°44	12°44	14° 3	15°46	2°41	3°57	12°58	10°47	S 16
M17	13 40 16	26°56'10	10845	22° 1	12°35	6°41	25°56	23°50	12°46	14° 1	15°47	2°32	3°54	13° 5	10°50	M17
T 18	13 44 12	27°54'56	25°42	24° 3	13°22	7°21	25°50	23°57	12°49	14° 0	15°48	2°25	3°51	13°12	10°53	T 18
W19	13 48 9	28°53'39	10 <b>I</b> I16	26° 7	14°10	8° 1	25°44	24° 3	12°52	13°58	15°50	2°21	3°47	13°18	10°56	W19
T 20	13 52 5	29°52'21	24°21	28°12	14°58	8°41	25°38	24°10	12°55	13°57	15°51	2°19	3°44	13°25	10°59	T 20
F 21	13 56 2	0851'00	7957	0818	15°48	9°22	25°32	24°16	12°57	13°55	15°52	2°D19	3°41	13°32	11° 2	F 21
S 22	13 59 58	1°49'37	21° 6	2°25	16°38	10° 2	25°25	24°23	13° 0	13°54	15°54	2°19	3°38	13°39	11° 5	S 22
S 23	14 3 55	2°48'12	3 <b>£</b> 52	4°32	17°28	10°42	25°19	24°29	13° 3	13°52	15°55	2°R20	3°35	13°45	11° 7	S 23
M24	14 7 52	3°46'44	16°18	6°40	18°20	11°22	25°12	24°35	13° 6	13°50	15°56	2°19	3°31	13°52	11°10	M24
T 25	14 11 48	4°45'14	28°30	8°48	19°12	12° 2	25° 6	24°42	13° 9	13°49	15°58	2°16	3°28	13°59	11°13	T 25
W26	14 15 45	5°43'42	10 <b>m</b> /31	10°56	20° 4	12°42	24°59	24°48	13°12	13°47	15°59	2°11	3°25	14° 5	11°16	W26
T 27	14 19 41	6°42'09	22°26	13° 4	20°58	13°22	24°52	24°54	13°15	13°46	16° 0	2° 3	3°22	14°12	11°18	T 27
F 28	14 23 38	7°40'33	4 <b>≏</b> 18	15°11	21°51	14° 2	24°45	25° 0	13°18	13°44	16° 2	1°54	3°19	14°19	11°21	F 28
S 29	14 27 34	8°38'55	16°10	17°17	22°46	14°42	24°38	25° 6	13°21	13°43	16° 3	1°44	3°16	14°26	11°23	S 29
S 30	14 31 31	9 <b>8</b> 37'15	28 <b>♀</b> 4	19822	23 <b>)</b> 41	15 <b>Ⅲ</b> 22	24M31	25 <b>∺</b> 12	13Ⅲ24	13 <b>≏</b> 41	168 4	1934	39512	14 <b>≏</b> 32	11 <b>米</b> 26	S 30

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	decl	decl lat	decl lat	decl lat	ecl lat	decl l	at	decl	lat	decl	lat	decl l	at	decl lat	decl	decl	decl	decl	lat
S 1	4n26	1n40 4n59	9 5s10 2s22	6s43 4n 9 19	55 0n44	18 s 2 1	1n11	4 s 5 3	1 s52	22n14	0n 0	4s14	1n36	1n39 15 s2	6 23n21	23n20	0n15	2 s 5 9	5n14
S 2	4 49	3 s 3 4 49	9 4 29 2 22	6 43 3 58 20	6 0 45	18 21	1 11	4 50	1 52	22 14	0 0	4 13	1 36	1 40 15 2	6 23 22	23 20	0 12	2 57	5 14
M 3	5 12	7 40 4 2		6 43 3 48 20	-		1 11	4 48	-	-		4 12	1 36	1 40 15 2			0 9	2 56	5 14
T 4	5 35	12 2 3 53		6 42 3 37 20			1 12	4 45	-	-		4 12	1 36		6 23 22		0 6	2 55	5 14
W 5 T 6		15 58 3 8 19 17 2 14	8 2 23 2 17 4 1 38 2 14	6 40 3 27 20 6 37 3 16 20		5 18 18 5 18 17	1 12 1 12	4 42 4 40	1 52 1 52	-		4 11 4 10	1 36 1 36	_	6 23 23 5 23 23	_	0 4	2 53 2 52	5 15 5 15
F 7	-	21 47 1 13		6 33 3 6 20			1 12	4 40	1 52	-		4 10	1 36	1 42 15 2	-	_	0 s 2	2 50	5 15
S 8			8 0 7 2 8			18 15	1 12	4 34	1 53	-		4 9	1 36	1 43 15 2			0 4	2 49	5 15
S 9	7 28	23 36 1s (	0 0n40 2 4	6 25 2 46 21	11 0 48	18 13	1 12	4 32	1 53	22 17	0 0	4 8	1 36	1 43 15 2	5 23 23	23 21	0 7	2 48	5 15
M10	7 50	22 38 2 0	6 1 29 1 59	6 19 2 36 21	20 0 48	18 12	1 12	4 29	1 53	22 17	0 0	4 8	1 36	1 44 15 2	5 23 23	23 21	0 10	2 46	5 15
T 11	-		8 2 18 1 54	6 13 2 27 21			1 12	4 26	1 53			4 7	1 36	1 44 15 2			0 13	2 45	5 15
W12		10	0 3 7 1 49	6 7 2 17 21			1 12	4 24	1 53			4 6	1 36		5 23 23		0 15	2 44	5 15
T 13 F 14		12 4 4 38			45 0 50		1 12 1 12	4 21				4 6	1 36	1 45 15 2	4 23 23		0 18	2 42	5 16
S 15	9 18 9 40	6 33 4 59	9 4 49 1 36 0 5 41 1 29	5 52 1 59 21 5 43 1 50 22	53 0 50		1 12	4 19 4 16	1 53	-		4 5 4 5	1 36 1 36	1 45 15 2 1 46 15 2		_	0 21 0 23	2 41 2 40	5 16 5 16
S 16	10 1	5n32 4 39	9 6 33 1 21	5 34 1 41 22	8 0 5	18 5	1 12	4 14	1 54	22 19	0 0	4 4	1 36	1 46 15 2	4 23 24	23 22	0 26	2 38	5 16
M17	10 22	11 16 3 58	8 7 26 1 14	5 25 1 32 22	15 0 5	18 3	1 12	4 11	1 54	22 19	0 0	4 3	1 36	1 47 15 2	4 23 24	23 22	0 29	2 37	5 16
T 18	10 44	16 14 3 2	2 8 19 1 5	5 14 1 24 22	22 0 52	18 2	1 13	4 9	1 54	22 20	0 0	4 3	1 36	1 47 15 2	4 23 24	23 22	0 32	2 36	5 16
		20 5 1 5					1 13	4 6		-		4 2	1 36		4 23 24		0 34	2 35	5 17
T 20		22 36 0 42		4 53 1 8 22		17 59	1 13	4 4	1 54			4 2	1 36		3 23 24		0 37	2 33	5 17
F 21 S 22	11 46 12 6		0 10 59 0 37 9 11 52 0 27	4 41 1 0 22 4 29 0 52 22		3 17 57 3 17 56	1 13 1 13	4 1 3 59		22 21 22 21	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	4 1 4 0	1 36 1 36	1 49 15 2 1 49 15 2	3 23 24		0 40 0 42	2 32 2 31	5 17 5 17
																	-		
S 23 M24	12 26 12 46	21 52 2 40 19 19 3 33	0 12 45 0 17 3 13 38 0 7	4 16 0 44 22 4 3 0 37 23	55 0 54 1 0 54		1 13 1 13	3 57 3 54	1 55	22 21 22 22	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	4 0 3 59	1 36 1 36	1 50 15 2 1 50 15 2			0 45 0 48	2 30 2 28	5 17 5 17
T 25		15 57 4 14		3 49 0 30 23	7 0 54		1 13	3 52	1 55			3 59	1 36	1 50 15 2			0 48	2 27	5 18
W26		12 0 4 44		3 35 0 22 23		17 49	1 13	3 50	1 55			3 58	1 36	1 51 15 2			0 53	2 26	5 18
T 27	13 45	7 36 5	1 16 9 0 25			17 48	1 13	3 47				3 57	1 36		3 23 25		0 56	2 25	5 18
F 28	14 4		5 16 57 0 36			17 46	1 13	3 45	1 55	-		3 57	1 36		3 23 25		0 59	2 24	5 18
S 29	14 23	1 s48 4 5	5 17 44 0 47	2 50 0 2 23	28 0 50	17 44	1 13	3 43	1 56	22 24	0 0	3 56	1 36	1 52 15 2	3 23 25	23 23	1 2	2 22	5 18
S 30	14n41	6s31 4n33	3 18n29 0n57	2 s 3 5 0 s 4 2 3	33 On56	17 s43	1n13	3 s41	1 s56	22n24	0n 0	3 s 5 6	1n36	1n53 15 s2	3 23n25	23n23	1 s 4	2 s21	5n19

Julian Day Number = 2492907.5, Delta T = 99.67 sec Ecliptic obliquity =  $23^{\circ}25'28$ , Nutation = -  $0^{\circ}00'18$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'21$ , Lahiri =  $25^{\circ}26'22$ 

MAY 2113 00:00 UT

Day	Sid.t	$\odot$	D	ğ	φ	♂	4	ħ	)∤(	4	Р	u	Ω	Ç	Ŗ	Day
M 1	14 35 27	10 <b>୪</b> 35'33	10 <b>M</b> 1	21825	24 <b>)</b> (36	16 <b>I</b> I 2	24°R24	25 <b>)</b> 18	13 <b>Ⅲ</b> 27	13°R40	16 <b>8</b> 6	1°R25	399 9	14 <b>₽</b> 39	11 <b>)</b> 28	M 1
T 2	14 39 24	11°33'49	22° 3	23°27	25°32	16°42	24 <b>M</b> .17	25°24	13°30	13 <b>≏</b> 39	16° 7	19917	3° 6	14°46	11°31	T 2
W 3	14 43 21	12°32'04	4 <b>₹</b> 11	25°26	26°28	17°22	24° 9	25°30	13°33	13°37	16° 8	1°12	3° 3	14°52	11°33	W 3
T 4	14 47 17	13°30'17	16°28	27°23	27°25	18° 1	24° 2	25°36	13°36	13°36	16°10	1° 8	3° 0	14°59	11°36	T 4
F 5	14 51 14	14°28'29	28°55	29°18	28°22	18°41	23°54	25°41	13°40	13°34	16°11	1°D 7	2°56	15° 6	11°38	F 5
S 6	14 55 10	15°26'39	11 <b>る</b> 34	1 <b>I</b> 9	29°20	19°21	23°47	25°47	13°43	13°33	16°13	1° 8	2°53	15°13	11°40	S 6
S 7	14 59 7	16°24'48	24°28	2°57	0 <b>Υ</b> 18	20° 1	23°40	25°53	13°46	13°32	16°14	1° 9	2°50	15°19	11°42	S 7
M 8	15 3 3	17°22'55	7≈41	4°43	1°17	20°40	23°32	25°58	13°49	13°30	16°15	1°10	2°47	15°26	11°44	M 8
T 9	15 7 0	18°21'01	21°14	6°24	2°16	21°20	23°24	26° 4	13°53	13°29	16°17	1°R10	2°44	15°33	11°46	T 9
W10	15 10 56	19°19'05	5 <b>₩</b> 10	8° 3	3°15	22° 0	23°17	26° 9	13°56	13°28	16°18	1° 9	2°41	15°40	11°49	W10
T 11	15 14 53	20°17'08	19°29	9°37	4°15	22°39	23° 9	26°14	13°59	13°27	16°19	1° 6	2°37	15°46	11°51	T 11
F 12	15 18 50	21°15'10	4 <b>Υ</b> 8	11° 9	5°15	23°19	23° 2	26°20	14° 2	13°25	16°21	1° 2	2°34	15°53	11°52	F 12
S 13	15 22 46	22°13'10	19° 2	12°36	6°15	23°59	22°54	26°25	14° 6	13°24	16°22	0°57	2°31	16° 0	11°54	S 13
S 14	15 26 43	23°11'09	4 <b>8</b> 3	13°59	7°16	24°38	22°46	26°30	14° 9	13°23	16°23	0°51	2°28	16° 6	11°56	S 14
M15	15 30 39	24° 9'07	19° 3	15°19	8°17	25°18	22°39	26°35	14°12	13°22	16°25	0°46	2°25	16°13	11°58	M15
T 16	15 34 36	25° 7'03	3 <b>Ⅱ</b> 52	16°35	9°18	25°57	22°31	26°40	14°16	13°21	16°26	0°42	2°22	16°20	12° 0	T 16
W17	15 38 32	26° 4'58	18°23	17°46	10°19	26°37	22°23	26°45	14°19	13°20	16°27	0°40	2°18	16°27	12° 1	W17
T 18	15 42 29	27° 2'51	2930	18°54	11°21	27°16	22°16	26°50	14°23	13°18	16°29	0°D39	2°15	16°33	12° 3	T 18
F 19	15 46 25	28° 0'42	16°12	19°57	12°23	27°55	22° 8	26°55	14°26	13°17	16°30	0°40	2°12	16°40	12° 5	F 19
S 20	15 50 22	28°58'32	29°27	20°57	13°26	28°35	22° 1	26°59	14°30	13°16	16°31	0°42	2° 9	16°47	12° 6	S 20
S 21	15 54 19	29°56'20	12 <b>Ω</b> 17	21°52	14°28	29°14	21°53	27° 4	14°33	13°15	16°33	0°43	2° 6	16°53	12° 8	S 21
M22	15 58 15	0∏54'06	24°48	22°43	15°31	29°54	21°46	27° 9	14°36	13°14	16°34	0°44	2° 2	17° 0	12° 9	M22
T 23	16 2 12	1°51'51	7MD 2	23°29	16°34	0933	21°38	27°13	14°40	13°13	16°35	0°R44	1°59	17° 7	12°10	T 23
W24	16 6 8	2°49'34	19° 4	24°11	17°37	1°12	21°31	27°18	14°43	13°12	16°37	0°43	1°56	17°14	12°12	W24
T 25	16 10 5	3°47'16	0 <b>ჲ</b> 59	24°48	18°41	1°51	21°23	27°22	14°47	13°11	16°38	0°41	1°53	17°20	12°13	T 25
F 26	16 14 1	4°44'55	12°51	25°21	19°45	2°31	21°16	27°26	14°50	13°11	16°39	0°37	1°50	17°27	12°14	F 26
S 27	16 17 58	5°42'34	24°44	25°49	20°49	3°10	21° 9	27°30	14°54	13°10	16°41	0°33	1°47	17°34	12°15	S 27
S 28	16 21 54	6°40'11	6 <b>M</b> 40	26°12	21°53	3°49	21° 2	27°35	14°57	13° 9	16°42	0°29	1°43	17°40	12°16	S 28
M29	16 25 51	7°37'47	18°43	26°31	22°57	4°28	20°55	27°39	15° 1	13° 8	16°43	0°26	1°40	17°47	12°17	M29
T 30	16 29 48	8°35'21	0 <b>₹</b> 54	26°45	24° 2	5° 7	20°48	27°43	15° 4	13° 7	16°45	0°23	1°37	17°54	12°18	T 30
W31	16 33 44	9 <b>Ⅲ</b> 32'55	13 <b>×</b> 16	26耳54	25 <b>°</b> 6	5 <b>9</b> 47	20 <b>M</b> .41	27 <b>)</b> (46	15 <b>II</b> 8	13 <b>♀</b> 7	16846	0921	19934	18 <b>♀</b> 1	12 <b>米</b> 19	W31

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M 1 T 2 W 3 T 4	15 18 15 35 15 53	15 8 3 14 18 41 2 20 21 26 1 18		2 2 0 17 23 42 1 45 0 23 23 46 1 28 0 29 23 50		17 39 1 13 17 37 1 13 17 36 1 13	3 36 1 56 3 34 1 56 3 32 1 56	22 26 0 0	3 55 1 36 3 54 1 36 3 54 1 36	1 53 15 23 1 54 15 22 1 54 15 22	23n25 23n23 23 25 23 23 23 25 23 23 23 25 23 23	1 s 7 1 10 1 13 1 15	2 s 2 0 5 n 1 9 2 1 9 5 1 9 2 1 7 5 2 0 2 1 6 5 2 9
F 5 S 6			2 21 41 1 44 5 22 12 1 52		0 58 1		3 30 1 57 3 28 1 57				23 25 23 24 23 25 23 24	1 18 1 21	2 16 5 20 2 15 5 20
S 7 M 8 T 9 W10 T 11 F 12 S 13	17 1 17 17	21 19 3 5 18 10 3 58 13 56 4 39 8 49 5 3 3 6 5 9	3 23 31 2 11 2 23 52 2 16 3 24 11 2 20	0 16 0 50 24 4 0n 3 0 55 24 7 0 22 1 0 24 10 0 42 1 5 24 12 1 1 1 9 24 15	0 59 1 0 59 1 0 59 1 1 0 1	17 28 1 12 17 27 1 12 17 25 1 12	3 24 1 57 3 22 1 57 3 20 1 58 3 18 1 58 3 16 1 58	22 28 0 1 22 28 0 1 22 28 0 1		1 56 15 22 1 56 15 22 1 57 15 22 1 57 15 22 1 57 15 22	23 25 23 24 23 25 23 24	1 23 1 26 1 29 1 32 1 34 1 37 1 40	2 14 5 20 2 13 5 20 2 12 5 21 2 11 5 21 2 10 5 21 2 9 5 21 2 8 5 22
S 14 M15 T 16 W17 T 18 F 19 S 20	19 16 19 29 19 42	14 9 3 27 18 36 2 21 21 49 1 6 23 34 0n10 23 50 1 24	25 11 2 27 5 25 16 2 25 0 25 20 2 23	3 3 1 34 24 25 3 24 1 37 24 26	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 17 1 12 17 16 1 12 17 14 1 12 17 12 1 12 17 10 1 12 17 8 1 12 17 6 1 12	3 10 1 59 3 8 1 59 3 7 1 59 3 5 1 59 3 3 1 59	22 30 0 1 22 30 0 1 22 30 0 1 22 31 0 1 22 31 0 1 22 32 0 1 22 32 0 1	3 49 1 35 3 49 1 35 3 48 1 35 3 48 1 35 3 47 1 35 3 47 1 35 3 47 1 35	1 58 15 22 1 59 15 22 1 59 15 22 1 59 15 22 2 0 15 22	23 25 23 24 23 25 23 24	1 43 1 45 1 48 1 51 1 54 1 56 1 59	2 7 5 22 2 6 5 22 2 5 5 22 2 4 5 23 2 4 5 23 2 3 5 23 2 2 5 23
S 21 M22 T 23 W24 T 25 F 26 S 27	20 20 20 31 20 43 20 54 21 4 21 15	17 14 4 14 13 22 4 47 9 1 5 7 4 24 5 13 0s22 5 6 5 8 4 46	25 13 1 57 25 7 1 50 25 0 1 41 5 24 51 1 31 5 24 41 1 20	4 49 1 50 24 28 5 10 1 53 24 28 5 32 1 55 24 27 5 54 1 58 24 27 6 15 2 0 24 26	1 2 1 1 2 1 1 3 1 1 3 1 1 3 1 1 3 1	17 5 1 11 17 3 1 11 17 1 1 11 16 59 1 11 16 57 1 11 16 56 1 11 16 54 1 11	3 0 2 0 2 58 2 0 2 57 2 0 2 55 2 1 2 54 2 1 2 52 2 1 2 51 2 1	22 32 0 1 22 33 0 1 22 33 0 1 22 34 0 1 22 34 0 1 22 34 0 1 22 35 0 1	3 46 1 35 3 46 1 35 3 45 1 35 3 45 1 35 3 45 1 35 3 44 1 35 3 44 1 35	2 1 15 23 2 1 15 23 2 1 15 23 2 1 15 23 2 2 15 23 2 2 15 23	23 25 23 24 23 25 23 25 23 25 23 25	2 2 2 5 2 8 2 10 2 13 2 16 2 19	1 58 5 25 1 57 5 25 1 57 5 25
T 30	21 25 21 34 21 43 21n52	14 2 3 29 17 48 2 35	3 24 30 1 8 24 18 0 56 3 24 5 0 42 23n51 0n28	6 59 2 5 24 24 7 21 2 7 24 23	1 4 1	16 52 1 10 16 50 1 10 16 49 1 10 16 s47 1n10	2 46 2 2	22 35 0 1 22 36 0 1 22 36 0 1 22n36 0n 1	3 44 1 35 3 44 1 35 3 43 1 35 3 s43 1 n35	2 2 15 23 2 3 15 23	23 25 23 25 23 25 23 25 23 25 23 25 23n25 23n25	2 21 2 24 2 27 2 s30	1 56 5 25 1 55 5 26 1 55 5 26 1 s54 5n26

Julian Day Number = 2492937.5, Delta T = 99.71 sec Ecliptic obliquity =  $23^{\circ}25'28$ , Nutation = -  $0^{\circ}00'19$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'25$ , Lahiri =  $25^{\circ}26'26$ 

JUNE 2113 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	)Å(	并	В	n	v	Ç	Ŷ,	Day
T 1	16 37 41	10 <b>Ⅲ</b> 30′27	25 <b>∡</b> <sup>7</sup> 48	26°R59	26 <b>Υ</b> 11	69526	20°R34	27 <b>)</b> 50	15 <b>I</b> I1	13°R 6	16847	0°D20	19931	18 <b>♀</b> 7	12 <b>)</b> 20	T 1
F 2	16 41 37	11°27'58	8 <b>云</b> 32	26耳59	27°17	7° 5	20M27	27°54	15°15	13 <b>♀</b> 5	16°48	0ഇ20	1°28	18°14	12°21	F 2
S 3	16 45 34	12°25'29	21°28	26°55	28°22	7°44	20°20	27°58	15°18	13° 4	16°50	0°21	1°24	18°21	12°22	S 3
S 4	16 49 30	13°22'58	4≈39	26°46	29°27	8°23	20°14	28° 1	15°22	13° 4	16°51	0°22	1°21	18°27	12°22	S 4
M 5	16 53 27	14°20'27	18° 4	26°33	0 <b>8</b> 33	9° 2	20° 7	28° 5	15°26	13° 3	16°52	0°23	1°18	18°34	12°23	M 5
T 6	16 57 24	15°17'55	1 <b>) (</b> 45	26°16	1°39	9°41	20° 1	28° 8	15°29	13° 3	16°53	0°24	1°15	18°41	12°24	T 6
W 7	17 1 20	16°15'22	15°40	25°55	2°45	10°20	19°55	28°11	15°33	13° 2	16°55	0°R25	1°12	18°48	12°24	W 7
T 8	17 5 17	17°12'48	29°50	25°31	3°51	10°59	19°49	28°14	15°36	13° 2	16°56	0°24	1° 8	18°54	12°25	T 8
F 9	17 9 13	18°10'14	14 <b>Y</b> 13	25° 5	4°57	11°38	19°43	28°18	15°40	13° 1	16°57	0°23	1° 5	19° 1	12°25	F 9
S 10	17 13 10	19° 7'40	28°45	24°35	6° 4	12°17	19°37	28°21	15°43	13° 1	16°58	0°22	1° 2	19°8	12°25	S 10
S 11	17 17 6	20° 5'04	13821	24° 4	7°10	12°55	19°31	28°23	15°47	13° 0	16°59	0°21	0°59	19°14	12°26	S 11
M12	17 21 3	21° 2'29	27°56	23°32	8°17	13°34	19°25	28°26	15°50	13° 0	17° 0	0°20	0°56	19°21	12°26	M12
T 13	17 24 59	21°59'52	12∏24	22°58	9°24	14°13	19°20	28°29	15°54	12°59	17° 2	0°19	0°53	19°28	12°26	T 13
W14	17 28 56	22°57'15	26°39	22°25	10°31	14°52	19°15	28°32	15°57	12°59	17° 3	0°D19	0°49	19°35	12°26	W14
T 15	17 32 53	23°54'37	10936	21°51	11°38	15°31	19° 9	28°34	16° 1	12°59	17° 4	0°19	0°46	19°41	12°R26	T 15
F 16	17 36 49	24°51'59	24°12	21°19	12°45	16°10	19° 4	28°37	16° 4	12°58	17° 5	0°19	0°43	19°48	12°26	F 16
S 17	17 40 46	25°49'19	7 <b>Ω</b> 26	20°48	13°52	16°48	18°59	28°39	16° 8	12°58	17° 6	0°20	0°40	19°55	12°26	S 17
S 18	17 44 42	26°46'39	20°18	20°19	15° 0	17°27	18°55	28°41	16°11	12°58	17° 7	0°20	0°37	20° 2	12°26	S 18
M19	17 48 39	27°43'58	2 <b>m</b> 51	19°52	16° 7	18° 6	18°50	28°44	16°15	12°58	17° 8	0°21	0°34	20° 8	12°26	M19
T 20	17 52 35	28°41'16	15° 8	19°28	17°15	18°45	18°45	28°46	16°18	12°58	17° 9	0°21	0°30	20°15	12°26	T 20
W21	17 56 32	29°38'33	27°12	19° 7	18°23	19°23	18°41	28°48	16°22	12°58	17°10	0°21	0°27	20°22	12°25	W21
T 22	18 0 28	0935'49	9 <b>ত</b> 8	18°50	19°30	20° 2	18°37	28°49	16°25	12°57	17°11	0°21	0°24	20°28	12°25	T 22
F 23	18 4 25	1°33'05	21° 1	18°37	20°38	20°41	18°33	28°51	16°29	12°57	17°12	0°21	0°21	20°35	12°25	F 23
S 24	18 8 22	2°30'19	2M55	18°29	21°47	21°19	18°29	28°53	16°32	12°D57	17°14	0°21	0°18	20°42	12°24	S 24
S 25	18 12 18	3°27'34	14°54	18°D24	22°55	21°58	18°26	28°55	16°36	12°57	17°15	0°21	0°14	20°49	12°24	S 25
M26	18 16 15	4°24'48	27° 2	18°24	24° 3	22°37	18°22	28°56	16°39	12°57	17°15	0°22	0°11	20°55	12°23	M26
T 27	18 20 11	5°22'01	9 <b>∡</b> 122	18°29	25°11	23°15	18°19	28°57	16°42	12°58	17°16	0°22	0° 8	21° 2	12°22	T 27
W28	18 24 8	6°19'14	21°56	18°38	26°20	23°54	18°16	28°59	16°46	12°58	17°17	0°22	0° 5	21° 9	12°22	W28
T 29	18 28 4	7°16'26	4 <b>궁</b> 45	18°53	27°28	24°32	18°13	29° 0	16°49	12°58	17°18	0°R22	0° 2	21°15	12°21	T 29
F 30	18 32 1	89513'38	17 <b>云</b> 51	19∏12	28 <b>8</b> 37	259511	18 <b>M</b> .10	29 <b>米</b> 1	16耳53	12 <b>♀</b> 58	17819	09522	29∏59	21 <b>≏</b> 22	12 <b>)</b> 20	F 30

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S 4 M 5 T 6 W 7 T 8	22 30 22 37 22 43 22 49	19 7 3 15 10 4 10 20 5 4 54 5	16 21 3	0 52 9 3 1 9 9 5 1 27 10 7 1 44 10	9 32 2 16 9 53 2 17 0 15 2 19 0 36 2 19	24 12 1 5 24 9 1 5 24 6 1 5 24 3 1 5	16 38 1 9 16 36 1 9 16 35 1 9	2 40 2 3 2 39 2 3 2 38 2 4 2 37 2 4 2 36 2 4	22 38 0 1 22 39 0 1 22 39 0 1 22 40 0 1	3 42 1 35 3 42 1 35 3 42 1 34 3 42 1 34 3 41 1 34	2 4 15 24 2 4 15 24 2 4 15 24 2 5 15 24	23 25 23 25 23 25 23 25	2 41 2 43 2 46 2 49 2 52	1 52 5 27 1 52 5 28 1 51 5 28 1 51 5 28 1 50 5 28
F 9 S 10 S 11	22 54 22 59 23 3	6 41 4	7 21 19 38 21 1 52 20 43	2 18 1	0 58 2 20 1 19 2 21 1 40 2 21	23 57 1 6		2 35 2 4 2 34 2 5 2 33 2 5	22 40 0 1	3 41 1 34 3 41 1 34 3 41 1 34	2 5 15 24	23 25 23 25 23 25 23 25 23 25 23 25	2 55 2 57 3 0	
M12 T 13 W14 T 15 F 16 S 17	23 7 23 11 23 14 23 17 23 19	16 56 2 20 39 1 23 3 0 23 57 0 23 22 2	38 20 20 38 20 9 20 19 54 20 19 39	5 2 50 12 0 3 5 12 4 3 19 12 0 3 32 13 5 3 44 13	2 1 2 22 2 22 2 22 2 43 2 22 3 3 2 22 3 23 2 22	23 50 1 6 23 46 1 6 23 42 1 6	16 29 1 8 16 28 1 8 16 27 1 7 16 26 1 7 16 24 1 7	2 32 2 5 2 31 2 5 2 30 2 6 2 30 2 6 2 29 2 6 2 28 2 6	22 41 0 1 22 42 0 1 22 42 0 1 22 42 0 1 22 42 0 1 22 43 0 1	3 41 1 34 3 41 1 34	2 5 15 25 2 5 15 25 2 6 15 25 2 6 15 25 2 6 15 25	23 25 23 25 23 25 23 25	3 3 3 6 3 8 3 11 3 14 3 17	1 49 5 29 1 49 5 30 1 48 5 30 1 48 5 30 1 48 5 31 1 47 5 31
S 18 M19 T 20 W21 T 22 F 23 S 24	23 23 23 24 23 25 23 25 23 25 23 25 23 24	10 33 5 5 57 5 1 11 5 3 s 37 4	41 18 5	3 4 18 14 5 4 24 13 4 27 13 8 4 30 13	4 23 2 22 4 43 2 21 5 2 2 21 5 21 2 20 5 39 2 20	23 23 1 7 23 18 1 7 23 13 1 7 23 8 1 7 23 2 1 7 22 57 1 7 22 51 1 7	16 21 1 6 16 20 1 6 16 19 1 6 16 18 1 6 16 17 1 5	2 27 2 7 2 27 2 7 2 26 2 7 2 26 2 7 2 25 2 8 2 25 2 8 2 24 2 8	22 44 0 1 22 44 0 1 22 44 0 1 22 45 0 1	3 40 1 34 3 41 1 34	2 6 15 26 2 6 15 26 2 6 15 26 2 7 15 26 2 7 15 27	23 25 23 25 23 25 23 25	3 19 3 22 3 25 3 28 3 31 3 33 3 36	1 47 5 31 1 47 5 32 1 47 5 32 1 47 5 32 1 47 5 32
S 25 M26 T 27 W28 T 29 F 30	-	16 39 2 19 58 1 22 24 0 23 45 0	46 18 26 54 18 27 54 18 33 47 18 33 824 18 4 835 18n49	4 29 10 4 26 10 5 4 22 17 4 17 17	6 34 2 17 6 51 2 16 7 8 2 15 7 25 2 13	22 32 1 8 22 26 1 8 22 19 1 8	16 15 1 5 16 14 1 4 16 14 1 4	-	22 46 0 1 22 47 0 1	3 41 1 34 3 41 1 34 3 41 1 34 3 41 1 33 3 41 1 33 3 s41 1n33	2 7 15 27 2 7 15 27 2 7 15 28 2 7 15 28	23 25 23 25 23 25 23 25 23n25 23n25	3 39 3 42 3 44 3 47 3 50 3 s 53	

 $\label{eq:Julian Day Number = 2492968.5, Delta T = 99.76 sec} \\ Ecliptic obliquity = 23°25'28, Nutation = -0°00'18, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°19'30, Lahiri = 25°26'30 \\ \\$ 

JULY 2113 00:00 UT

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Day	Sid.t	0	D	ğ	ρ	ð	4	ħ	)∤(	并	В	₽.	v	Ç	& &	Day
S 1	18 35 57	99510'51	1≈11	19 <b>Ⅱ</b> 36	29846	25950	18°R 7	29 <b>∺</b> 2	16 <b>II</b> 56	12 <b>≏</b> 58	17820	0°R21	29∏55	21 <b>≏</b> 29	12°R19	S 1
S 2	18 39 54	10° 8'03	14°46	20° 4	0Д55	26°28	18 <b>M</b> 5	29° 3	16°59	12°58	17°21	0920	29°52	21°36	12 <b>)</b> 18	S 2
M 3	18 43 51	11° 5'14	28°33	20°38	2° 4	27° 7	18° 2	29° 4	17° 3	12°59	17°22	0°19	29°49	21°42	12°17	M 3
T 4	18 47 47	12° 2'26	12 <b>)</b> (31	21°16	3°13	27°45	18° 0	29° 4	17° 6	12°59	17°23	0°18	29°46	21°49	12°16	T 4
W 5	18 51 44	12°59'38	26°36	21°59	4°22	28°24	17°58	29° 5	17° 9	12°59	17°24	0°17	29°43	21°56	12°15	W 5
T 6	18 55 40	13°56'51	10 <b>Y</b> 48	22°46	5°31	29° 2	17°56	29° 6	17°12	13° 0	17°25	0°D16	29°40	22° 2	12°14	T 6
F 7	18 59 37	14°54'03	25° 2	23°38	6°40	29°41	17°55	29° 6	17°16	13° 0	17°25	0°17	29°36	22° 9	12°13	F 7
S 8	19 3 33	15°51'16	9 <b>8</b> 17	24°34	7°50	0 <b>Ω</b> 19	17°53	29° 6	17°19	13° 0	17°26	0°17	29°33	22°16	12°12	S 8
S 9	19 7 30	16°48'30	23°30	25°35	8°59	0°57	17°52	29° 6	17°22	13° 1	17°27	0°18	29°30	22°23	12°11	S 9
M10	19 11 26	17°45'43	7耳38	26°41	10° 9	1°36	17°51	29°R 7	17°25	13° 1	17°28	0°20	29°27	22°29	12° 9	M10
T 11	19 15 23	18°42'57	21°39	27°50	11°19	2°14	17°50	29° 7	17°28	13° 2	17°28	0°20	29°24	22°36	12° 8	T 11
W12	19 19 20	19°40'11	5929	29° 4	12°28	2°53	17°50	29° 6	17°32	13° 3	17°29	0°R21	29°20	22°43	12° 6	W12
T 13	19 23 16	20°37'26	19° 5	0ණ22	13°38	3°31	17°49	29° 6	17°35	13° 3	17°30	0°20	29°17	22°49	12° 5	T 13
F 14	19 27 13	21°34'41	$2\Omega 27$	1°44	14°48	4°10	17°49	29° 6	17°38	13° 4	17°31	0°18	29°14	22°56	12° 3	F 14
S 15	19 31 9	22°31'56	15°31	3°10	15°58	4°48	17°D49	29° 6	17°41	13° 4	17°31	0°15	29°11	23° 3	12° 2	S 15
S 16	19 35 6	23°29'10	28°18	4°41	17° 8	5°26	17°49	29° 5	17°44	13° 5	17°32	0°12	29° 8	23°10	12° 0	S 16
M17	19 39 2	24°26'25	10 <b>M</b> )49	6°15	18°18	6° 5	17°49	29° 4	17°47	13° 6	17°33	0° 8	29° 5	23°16	11°59	M17
T 18	19 42 59	25°23'40	23° 5	7°53	19°28	6°43	17°49	29° 4	17°50	13° 7	17°33	0° 4	29° 1	23°23	11°57	T 18
W19	19 46 55	26°20'56	5 <b>₾</b> 9	9°34	20°38	7°21	17°50	29° 3	17°53	13° 7	17°34	0° 2	28°58	23°30	11°55	W19
T 20	19 50 52	27°18'11	17° 5	11°19	21°49	8° 0	17°51	29° 2	17°56	13° 8	17°34	0° 0	28°55	23°36	11°53	T 20
F 21	19 54 49	28°15'26	28°58	13° 7	22°59	8°38	17°52	29° 1	17°59	13° 9	17°35	29°D59	28°52	23°43	11°51	F 21
S 22	19 58 45	29°12'42	10 <b>M</b> 51	14°59	24° 9	9°16	17°53	29° 0	18° 2	13°10	17°36	0° 0	28°49	23°50	11°49	S 22
S 23	20 2 42	oΩ 9'58	22°51	16°53	25°20	9°55	17°54	28°59	18° 4	13°11	17°36	0° 2	28°46	23°56	11°48	S 23
M24	20 6 38	1° 7'14	5 <b>₹</b> 1	18°50	26°31	10°33	17°56	28°57	18° 7	13°12	17°37	0° 3	28°42	24° 3	11°46	M24
T 25	20 10 35	2° 4'31	17°26	20°49	27°41	11°11	17°57	28°56	18°10	13°13	17°37	0° 5	28°39	24°10	11°43	T 25
W26	20 14 31	3° 1'48	0ට 9	22°50	28°52	11°49	17°59	28°54	18°13	13°14	17°38	0°R 5	28°36	24°17	11°41	W26
T 27	20 18 28	3°59'06	13°12	24°53	0ණ 3	12°28	18° 1	28°53	18°15	13°15	17°38	0° 5	28°33	24°23	11°39	T 27
F 28	20 22 24	4°56'24	26°37	26°57	1°14	13° 6	18° 3	28°51	18°18	13°16	17°38	0° 2	28°30	24°30	11°37	F 28
S 29	20 26 21	5°53'42	10≈22	29° 2	2°24	13°44	18° 6	28°49	18°21	13°17	17°39	29∏58	28°26	24°37	11°35	S 29
S 30	20 30 18	6°51'01	24°24	10 8	3°35	14°22	18° 8	28°48	18°23	13°18	17°39	29°53	28°23	24°43	11°33	S 30
M31	20 34 14	7 <b>Ω</b> 48'21	8 <b>米</b> 39	3 <b>Ω</b> 14	49946	15 <b>Ω</b> 1	18 <b>M</b> .11	28 <b>)</b> (46	18 <b>Ⅱ</b> 26	13 <b>≏</b> 19	17840	29∏48	28耳20	24 <b>≏</b> 50	11 <b>米</b> 30	M31

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S 1	23n 6	22 s31	2 s42	18n58	4s 4	17n57	2s11	22n 5	1n 8	16s12	1n 3	2 s22	2s10	22n48	0n 1	3 s41	1n33	2n 7	15 s28	23n25	23n25	3 s 5 6	1 s47	5n34
S 2	23 2		3 42		3 56		2 9		1 8	-	1 3	2 22	2 10	22 48		3 41	1 33			23 25		3 58	1 47	5 35
M 3	22 58				3 48		2 8		1 8	-	1 3	2 22	2 11	-		3 41	1 33			23 25		4 1	1 47	5 35
T 4 W 5	22 53 22 47		-	19 30 19 43	3 38 3 28		2 6 2 4	-	1 8	-	1 3	2 22 2 22	2 11 2 11	22 49 22 49		3 42 3 42	1 33 1 33			23 25 23 25		4 4 4 4	1 47 1 47	5 35 5 35
T 6	22 42			19 56	3 18		2 3		1 8	-	1 2	2 22	2 11	-	-	3 42	1 33			23 25		4 10		5 36
F 7	22 36	5n14	4 47	20 10	3 7	19 26	2 1	21 19	1 9	16 10	1 2	2 22	2 12	22 50	0 1	3 42	1 33	2 7	15 30	23 25	23 25	4 12	1 48	5 36
S 8	22 29	10 41	4 6	20 24	2 55	19 39	1 59	21 11	1 9	16 10	1 2	2 22	2 12	22 50	0 1	3 42	1 33	2 7	15 30	23 25	23 25	4 15	1 48	5 36
S 9	22 22			20 38	2 43	19 52	1 57	_	1 9	16 10	1 1	2 23	2 12	22 51	0 1	3 43	1 33			23 25		4 18	1 48	5 36
M10	22 15			20 52	2 31	20 4		20 54	1 9	10 10	1 1	2 23	2 13	-	0 1	3 43	1 33			23 25		4 21	1 49	5 37
T 11 W12	22 7	22 22 23 47	0 48 0n28		2 18 2 5	20 16 20 27	1 53 1 51		1 9	-	l l 1 1	2 23 2 23	2 13	22 51 22 51	0 1 0 1	3 43 3 43	1 33 1 33			23 25 23 25		4 23 4 26	1 49 1 49	5 37 5 37
T 13		23 44		21 34		20 27		20 28	1 9		1 0	2 24	2 13			3 44	1 33			23 25		4 29	1 50	5 37
F 14	21 42	22 19		21 46		20 48		20 19	1 9		1 0	2 24	2 14			3 44	1 33			23 25		4 32	1 50	5 37
S 15	21 33	19 44	3 43	21 58	1 25	20 58	1 44	20 10	1 9	16 10	1 0	2 24	2 14	22 52	0 1	3 44	1 33	2 7	15 32	23 25	23 25	4 35	1 50	5 38
S 16	21 23	16 13	4 27	22 9	1 12	21 7	1 41	20 1	1 9	16 11	1 0	2 25	2 14	22 53	0 1	3 44	1 33			23 25		4 37	1 51	5 38
M17	21 13		4 56			21 16	1 39		1 9		0 59	2 25	2 14			3 45	1 33			23 25		4 40	-	5 38
T 18 W19	21 3 20 52			22 26 22 32		21 24 21 32	1 36	19 42 19 32	1 9	16 11 16 12	0 59 0 59	2 26 2 27	2 15 2 15			3 45 3 45	1 33			23 25 23 25		4 43 4 46	1 52 1 52	5 38 5 38
T 20	20 41	2 s 5		22 37		21 32	1 31			16 12	0 59	2 27	2 15			3 46	1 32			23 25		4 49	1 53	5 39
F 21	20 30			22 39		21 46	1 29		1 9		0 58	2 28	2 15			3 46	1 32			23 25		4 51	1 53	5 39
S 22	20 18	11 19	3 57	22 40	0n 5	21 52	1 26	19 2	1 9	16 13	0 58	2 28	2 16	22 54	0 1	3 47	1 32	2 6	15 34	23 25	23 25	4 54	1 54	5 39
S 23	20 6	15 25	3 10	22 38	0 16	21 57	1 23	18 52	1 9	16 14	0 58	2 29	2 16	22 55	0 1	3 47	1 32	2 6	15 34	23 25	23 25	4 57	1 54	5 39
M24		18 57		22 33	0 27		1 21			16 15	0 58	2 30	2 16			3 47	1 32			23 25		5 0		5 39
T 25 W26	19 41 19 28			22 26 22 17	0 38	22 6 22 10	1 18	18 31 18 20	1 9	16 15 16 16	0 57 0 57	2 31 2 32	2 16 2 17			3 48 3 48	1 32 1 32			23 25 23 25		5 2 5 5	1 56 1 56	5 39 5 40
T 27		23 20	1 11	22 17		22 10	1 13		1 9		0 57	2 32	2 17			3 49	1 32			23 25		5 5 5 8	1 56 1 57	5 40
F 28		23 6			1 5		1 9		1 9		0 57	2 33	2 17			3 49	1 32			23 25		5 11	1 57	5 40
S 29	18 47	20 52	3 22	21 32	1 13	22 18	1 7	17 48	1 9	16 19	0 56	2 34	2 17	22 56	0 1	3 49	1 32	2 5	15 36	23 25	23 25	5 14	1 58	5 40
S 30	18 33	17 21	4 13	21 11	1 20	22 19	1 4	17 37	1 9	16 19	0 56	2 35	2 18	22 56	0 1	3 50	1 32	2 5	15 36	23 25	23 25	5 16	1 59	5 40
M31	18n18	12 s47	4 s 4 9	20n49	1n26	22n20	1 s 1	17n25	1n 9	16 s 20	0n56	2 s 3 6	2s18	22n57	0n 1	3 s 5 0	1n32	2n 4	15 s36	23n25	23n25	5 s 1 9	2s 0	5n40

 $\label{eq:Julian Day Number = 2492998.5, Delta T = 99.80 sec} \\ Ecliptic obliquity = 23°25'28, Nutation = -0°00'17, out-of-bounds declination in red$ 

Ayanamsha: Fagan/Bradley = 26°19'34, Lahiri = 25°26'34

AUGUST 2113 00:00 UT

Day	Sid.t	$\odot$	D	ğ	·	ð	4	ħ	)∤(	卉	В	ß	Ω	Ç	ę,	Day
T 1	20 38 11	8 <b>Ω</b> 45'42	23 <b>)</b> 1	5 <b>Ω</b> 21	5958	15 <b>Ω</b> 39	18 <b>M</b> .14	28°R44	18Ⅲ29	13 <u>₽</u> 20	17840	29°R42	28 <b>I</b> I7	24 <u>₽</u> 57	11°R28	T 1
W 2	20 42 7	9°43'04	7 <b>Y</b> 26	7°27	7° 9	16°17	18°17	28 <b>)</b> (41	18°31	13°21	17°40	29耳38	28°14	25° 4	11 <b>米</b> 26	W 2
T 3	20 46 4	10°40'27	21°49	9°33	8°20	16°55	18°20	28°39	18°34	13°23	17°41	29°34	28°11	25°10	11°23	T 3
F 4	20 50 0	11°37'51	6 <b>8</b> 5	11°38	9°31	17°34	18°24	28°37	18°36	13°24	17°41	29°D33	28° 7	25°17	11°21	F 4
S 5	20 53 57	12°35'17	20°13	13°43	10°43	18°12	18°27	28°34	18°38	13°25	17°41	29°33	28° 4	25°24	11°19	S 5
S 6	20 57 53	13°32'43	4 <b>Ⅱ</b> 10	15°46	11°54	18°50	18°31	28°32	18°41	13°26	17°41	29°34	28° 1	25°30	11°16	S 6
M 7	21 1 50	14°30'11	17°57	17°48	13° 6	19°28	18°35	28°29	18°43	13°28	17°42	29°35	27°58	25°37	11°14	M 7
T 8	21 5 47	15°27'40	1933	19°49	14°17	20° 6	18°39	28°27	18°46	13°29	17°42	29°R36	27°55	25°44	11°11	T 8
W 9	21 9 43	16°25'11	14°58	21°49	15°29	20°45	18°43	28°24	18°48	13°30	17°42	29°35	27°52	25°51	11° 9	W 9
T 10	21 13 40	17°22'42	28°11	23°48	16°41	21°23	18°47	28°21	18°50	13°32	17°42	29°31	27°48	25°57	11° 6	T 10
F 11	21 17 36	18°20'15	$11\Omega13$	25°45	17°53	22° 1	18°52	28°18	18°52	13°33	17°42	29°26	27°45	26° 4	11° 3	F 11
S 12	21 21 33	19°17'48	24° 1	27°41	19° 4	22°39	18°57	28°15	18°54	13°35	17°42	29°19	27°42	26°11	11° 1	S 12
S 13	21 25 29	20°15'23	6 <b>m</b> 37	29°35	20°16	23°17	19° 2	28°12	18°56	13°36	17°43	29°10	27°39	26°17	10°58	S 13
M14	21 29 26	21°12'59	19° 0	1 <b>m</b> ) 27	21°28	23°56	19° 7	28° 9	18°59	13°38	17°43	29° 0	27°36	26°24	10°55	M14
T 15	21 33 22	22°10'35	1 <b>₽</b> 11	3°19	22°40	24°34	19°12	28° 6	19° 1	13°39	17°43	28°51	27°32	26°31	10°53	T 15
W16	21 37 19	23° 8'13	13°12	5° 8	23°52	25°12	19°17	28° 2	19° 3	13°41	17°43	28°43	27°29	26°37	10°50	W16
T 17	21 41 16	24° 5'52	25° 6	6°56	25° 4	25°50	19°23	27°59	19° 4	13°42	17°R43	28°37	27°26	26°44	10°47	T 17
F 18	21 45 12	25° 3'32	6 <b>M</b> 57	8°43	26°17	26°28	19°28	27°56	19° 6	13°44	17°43	28°33	27°23	26°51	10°44	F 18
S 19	21 49 9	26° 1'13	18°48	10°29	27°29	27° 6	19°34	27°52	19° 8	13°45	17°43	28°31	27°20	26°58	10°42	S 19
S 20	21 53 5	26°58'54	0 <b>∡</b> 746	12°12	28°41	27°45	19°40	27°49	19°10	13°47	17°43	28°D31	27°17	27° 4	10°39	S 20
M21	21 57 2	27°56'37	12°55	13°55	29°54	28°23	19°46	27°45	19°12	13°49	17°43	28°32	27°13	27°11	10°36	M21
T 22	22 0 58	28°54'21	2 <u>5</u> °20	15°36	1 <b>0</b> 6	29° 1	19°52	27°41	19°13	13°50	17°43	28°R32	27°10	27°18	10°33	T 22
W23	22 4 55	29°52'07	8ਰ 5	17°15	2°18	29°39	19°59	27°37	19°15	13°52	17°42	28°32	27° 7	27°24	10°30	W23
T 24	22 8 51	0 <b>m</b> 49'53	21°15	18°53	3°31	0 <b>M</b> p 17	20° 5	27°34	19°17	13°54	17°42	28°30	27° 4	27°31	10°27	T 24
F 25	22 12 48	1°47'41	4≈52	20°30	4°43	0°56	20°12	27°30	19°18	13°56	17°42	28°25	27° 1	27°38	10°25	F 25
S 26	22 16 45	2°45'29	18°54	22° 5	5°56	1°34	20°19	27°26	19°20	13°57	17°42	28°18	26°58	27°44	10°22	S 26
S 27	22 20 41	3°43'20	3 <b>∺</b> 18	23°39	7° 9	2°12	20°26	27°22	19°21	13°59	17°42	28° 9	26°54	27°51	10°19	S 27
M28	22 24 38	4°41'11	17°59	25°12	8°22	2°50	20°33	27°18	19°23	14° 1	17°42	27°59	26°51	27°58	10°16	M28
T 29	22 28 34	5°39'04	2 <b>Υ</b> 48	26°43	9°34	3°28	20°40	27°14	19°24	14° 3	17°41	27°50	26°48	28° 5	10°13	T 29
W30	22 32 31	6°36'59	17°38	28°13	10°47	4° 6	20°47	27° 9	19°26	14° 5	17°41	27°41	26°45	28°11	10°10	W30
T 31	22 36 27	7 <b>m</b> 34'56	2 <b>8</b> 20	29 <b>m</b> 41	12 <b>0</b> 0	4 <b>m</b> 45	20 <b>M</b> 55	27 <b>米</b> 5	19 <b>Ⅲ</b> 27	14 <b>♀</b> 7	17841	27 <b>Ⅲ</b> 35	26∏42	28 <b>≏</b> 18	10 <b>∺</b> 7	T 31

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T 1 W 2 T 3 F 4 S 5	18n 3 17 48 17 33 17 17 17 1	1 45 5 7 4n 3 4 47 9 37 4 9	20n24 19 56 19 27 18 55 18 22	1 35 22 19 0 1 39 22 18 0 1 42 22 16 0	55 17 3 1 9 52 16 51 1 9 49 16 39 1 9	16 24 0 55	2 38 2 18 2 39 2 19 2 41 2 19	22n57 On 1 22 57 O 1 22 57 O 1 22 57 O 1 22 58 O 1	3 s51 ln32 3 51 l 32 3 52 l 32 3 52 l 32 3 53 l 32	2 4 15 37 2 4 15 37 2 4 15 37	23n25 23n25 23 25 23 25 23 25 23 25 23 25 23 25 23 25 23 25 23 25 23 25	5 s 2 2 5 2 5 5 2 8 5 3 0 5 3 3	2s 0 5n40 2 1 5 41 2 2 5 41 2 3 5 41 2 3 5 41
S 6 M 7 T 8 W 9 T 10	16 45 16 28 16 11 15 54 15 37	18 47 2 13 21 50 1 3 23 36 0n11 23 57 1 22 22 55 2 28	17 47 17 10 16 32 15 53 15 13	1 45 22 11 0 1 46 22 7 0 1 46 22 3 0 1 45 21 58 0 1 44 21 52 0	43 16 16 1 9 40 16 4 1 9 37 15 52 1 9 34 15 40 1 9 31 15 27 1 9	16 27 0 54 16 29 0 54 16 30 0 54 16 31 0 54 16 33 0 53	2 43 2 19 2 44 2 20 2 45 2 20 2 47 2 20 2 48 2 20	22 58 0 1 22 59 0 1	3 53 1 32 3 54 1 32 3 55 1 32 3 55 1 32 3 56 1 32	2 3 15 38 2 3 15 38 2 3 15 39 2 2 15 39 2 2 15 39	23 25 23 25 23 25 23 25 23 25 23 24 23 25 23 24 23 25 23 24 23 25 23 24	5 36 5 39 5 42 5 44 5 47	2 4 5 41 2 5 5 41 2 6 5 41 2 7 5 41 2 8 5 41
F 11 S 12 S 13 M14 T 15	15 2	17 26 4 10 13 27 4 43 8 58 5 1	13 50 13 7	1 40 21 39 0 1 37 21 32 0 1 33 21 24 0	25 15 2 1 9	16 37 0 53 16 39 0 52		22 59 0 1 22 59 0 1 22 59 0 1 22 59 0 1 23 0 0 1	3 56 1 32 3 57 1 32 3 58 1 32 3 58 1 31 3 59 1 31	2 2 15 40 2 1 15 40 2 1 15 40	23 25 23 24 23 25 23 24	5 50 5 53 5 56 5 58 6 1	2 9 5 42 2 10 5 42 2 10 5 42 2 11 5 42 2 12 5 42
W16 T 17 F 18 S 19	12 50	0s40 4 56 5 27 4 34 10 2 4 0 14 16 3 16	10 12 9 27 8 42	1 20 20 56 0 1 15 20 46 0 1 9 20 35 0	13 14 11 1 9 10 13 58 1 9 7 13 45 1 8 4 13 32 1 8	16 44 0 52 16 46 0 51 16 47 0 51	2 57 2 22 2 58 2 22 3 0 2 22 3 1 2 22	23 0 0 1 23 0 0 1 23 0 0 1	3 59 1 31 4 0 1 31 4 1 1 31 4 1 1 31	2 0 15 41 2 0 15 42 2 0 15 42	23 25 23 24 23 25 23 24 23 25 23 24 23 25 23 24	6 4 6 7 6 9 6 12	2 13 5 42 2 14 5 42 2 15 5 42 2 16 5 42
S 20 M21 T 22 W23 T 24 F 25 S 26	12 31 12 11 11 51 11 31 11 10 10 50 10 29	20 58 1 23 23 3 0 17 24 1 0s51 23 41 1 58	7 12 6 27 5 42 4 57 4 13	0 29 19 17 0	4 12 52 1 8 7 12 39 1 8 10 12 25 1 8	16 51 0 51 16 53 0 51 16 55 0 50 16 57 0 50 16 59 0 50	3 3 2 22 3 4 2 22 3 6 2 23 3 8 2 23 3 9 2 23 3 11 2 23 3 13 2 23	23 1 0 1 23 1 0 1 23 1 0 1 23 1 0 2 23 1 0 2	4 5 1 31	1 59 15 43 1 59 15 43 1 59 15 43 1 58 15 43 1 58 15 44	23 25 23 24 23 25 23 23 23 25 23 23 23 25 23 23	6 15 6 18 6 21 6 23 6 26 6 29 6 32	2 17 5 42 2 18 5 42 2 19 5 42 2 21 5 42 2 22 5 42 2 23 5 42 2 24 5 42
S 27 M28 T 29 W30 T 31		14 33 4 35 9 19 4 58 3 30 5 1 2n32 4 45 8n22 4s 9	2 44 2 0 1 17 0 34	0 14 18 46 0 0 7 18 30 0 0s 1 18 14 0 0 10 17 56 0	18 11 44 1 8 21 11 31 1 8 24 11 17 1 8 26 11 3 1 8	17 3 0 49 17 5 0 49 17 7 0 49	3 15 2 23 3 16 2 24 3 18 2 24 3 20 2 24	23 1 0 2 23 2 0 2 23 2 0 2	4 7 1 31 4 8 1 31 4 8 1 31 4 9 1 31	1 57 15 44 1 57 15 45 1 57 15 45 1 56 15 45	23 25 23 23 23 25 23 23 23 24 23 23 23 24 23 23 23 24 23 23 23n24 23n23	6 35 6 37 6 40 6 43 6s46	2 25 5 42 2 26 5 42 2 27 5 42 2 28 5 42

Julian Day Number = 2493029.5, Delta T = 99.84 sec Ecliptic obliquity =  $23^{\circ}25'29$ , Nutation = -  $0^{\circ}00'16$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'38$ , Lahiri =  $25^{\circ}26'39$ 

SEPTEMBER 2113 00:00 UT

JLI	LLIDEN	L113													00.00	0.
Day	Sid.t	0	D	ğ	Ş	ð	4	ħ	)મ(	并	В	S.	v	Ç	Ŗ	Day
F 1	22 40 24	8 mp 32'54	16 <b>8</b> 48	1₽9	13 <b>Ω</b> 13	5 <b>m</b> 23	21 <b>M</b> 2	27°R 1	19∏28	14 <b>º</b> 8	17°R41	27°R31	26耳38	28 <b>≏</b> 25	10°R 4	F 1
S 2	22 44 20	9°30'55	1 <b>I</b> I 0	2°34	14°26	6° 1	21°10	26 <b>∺</b> 57	19°29	14°10	17840	27 <b>Ⅲ</b> 29	26°35	28°31	10 <b>∺</b> 1	S 2
S 3	22 48 17	10°28'57	14°53	3°58	15°39	6°39	21°18	26°52	19°31	14°12	17°40	27°D29	26°32	28°38	9°58	S 3
M 4	22 52 14	11°27'01	28°29	5°21	16°52	7°17	21°26	26°48	19°32	14°14	17°40	27°R29	26°29	28°45	9°56	M 4
T 5	22 56 10	12°25'08	119549	6°42	18° 6	7°55	21°34	26°44	19°33	14°16	17°39	27°28	26°26	28°52	9°53	T 5
W 6	23 0 7	13°23'16	24°54	8° 2	19°19	8°34	21°42	26°39	19°34	14°18	17°39	27°26	26°23	28°58	9°50	W 6
T 7	23 4 3	14°21'26	$7\Omega$ 47	9°20	20°32	9°12	21°51	26°35	19°35	14°20	17°38	27°20	26°19	29° 5	9°47	T 7
F 8	23 8 0	15°19'38	20°29	10°37	21°46	9°50	21°59	26°30	19°36	14°22	17°38	27°12	26°16	29°12	9°44	F 8
S 9	23 11 56	16°17'51	3 Mg 0	11°52	22°59	10°28	22° 8	26°26	19°36	14°24	17°38	27° 1	26°13	29°18	9°41	S 9
S 10	23 15 53	17°16'07	15°22	13° 5	24°12	11° 6	22°16	26°21	19°37	14°26	17°37	26°48	26°10	29°25	9°38	S 10
M11	23 19 49	18°14'24	27°34	14°16	25°26	11°45	22°25	26°17	19°38	14°28	17°37	26°35	26° 7	29°32	9°35	M11
T 12	23 23 46	19°12'43	9 <b>ჲ</b> 38	15°26	26°39	12°23	22°34	26°12	19°39	14°30	17°36	26°21	26° 3	29°38	9°32	T 12
W13	23 27 43	20°11'04	21°34	16°33	27°53	13° 1	22°43	26° 7	19°39	14°32	17°36	26° 9	26° 0	29°45	9°30	W13
T 14	23 31 39	21° 9'26	3M25	17°39	29° 7	13°39	22°52	26° 3	19°40	14°34	17°35	25°59	25°57	29°52	9°27	T 14
F 15	23 35 36	22° 7'50	15°14	18°42	0 <b>m</b> 20	14°18	23° 2	25°58	19°41	14°36	17°34	25°52	25°54	29°59	9°24	F 15
S 16	23 39 32	23° 6'16	27° 3	19°42	1°34	14°56	23°11	25°54	19°41	14°38	17°34	25°48	25°51	0 <b>M</b> 5	9°21	S 16
S 17	23 43 29	24° 4'43	8 <b>₹</b> 158	20°41	2°48	15°34	23°20	25°49	19°42	14°41	17°33	25°46	25°48	0°12	9°18	S 17
M18	23 47 25	25° 3'12	2 <u>1</u> ° 4	21°36	4° 2	16°12	23°30	25°44	19°42	14°43	17°33	25°45	25°44	0°19	9°15	M18
T 19	23 51 22	26° 1'43	3 <b>ප</b> 26	22°29	5°16	16°51	23°40	25°40	19°42	14°45	17°32	25°45	25°41	0°25	9°13	T 19
W20	23 55 18	27° 0'15	16° 8	23°18	6°29	17°29	23°49	25°35	19°43	14°47	17°31	25°44	25°38	0°32	9°10	W20
T 21	23 59 15	27°58'49	29°17	24° 4	7°43	18° 7	23°59	25°30	19°43	14°49	17°31	25°42	25°35	0°39	9° 7	T 21
F 22	0 3 12	28°57'24	12≈54	24°46	8°57	18°45	24° 9	25°26	19°43	14°51	17°30	25°37	25°32	0°45	9° 5	F 22
S 23	0 7 8	29°56'02	27° 1	25°25	10°11	19°24	24°19	25°21	19°43	14°53	17°29	25°29	25°29	0°52	9° 2	S 23
S 24	0 11 5	0 <b>ჲ</b> 54'40	11 <b>)</b> 35	25°59	11°25	20° 2	24°30	25°17	19°43	14°56	17°29	25°19	25°25	0°59	8°59	S 24
M25	0 15 1	1°53'21	26°31	26°29	12°40	20°40	24°40	25°12	19°R43	14°58	17°28	25° 8	25°22	1° 5	8°57	M25
T 26	0 18 58	2°52'04	11 <b>Y</b> 40	26°53	13°54	21°18	24°50	25° 7	19°43	15° 0	17°27	24°57	25°19	1°12	8°54	T 26
W27	0 22 54	3°50'48	26°51	27°13	15° 8	21°57	25° 1	25° 3	19°43	15° 2	17°26	24°47	25°16	1°19	8°51	W27
T 28	0 26 51	4°49'35	11854	27°27	16°22	22°35	25°11	24°58	19°43	15° 4	17°26	24°40	25°13	1°26	8°49	T 28
F 29	0 30 47	5°48'24	26°40	27°34	17°36	23°13	25°22	24°54	19°43	15° 7	17°25	24°35	25° 9	1°32	8°46	F 29
S 30	0 34 44	6 <b>₽</b> 47'16	11 <b>II</b> 5	27°R35	18 <b>m</b> 51	23 m 52	25M33	24 <b>) (</b> 49	19 <b>Ⅱ</b> 43	15 <b>♀</b> 9	17824	24 <b>Ⅲ</b> 33	25 <b>I</b> I 6	1 <b>M</b> .39	8 <b>) (</b> 44	S 30

7 2 0 34 10 21 1 6 43 0 36 10 6 1 6 23 0 39 9 52 1	decl lat 7 17 s14 0n48 7 17 16 0 48 7 17 18 0 48	decl lat  3 s23 2 s24 3 25 2 24	decl lat 23n 2 0n 2 23 2 0 2		decl lat	decl decl	decl	decl lat
7 2 0 34 10 21 1 6 43 0 36 10 6 1 6 23 0 39 9 52 1	7 17 16 0 48				1n56 15 s46 2			
6 43 0 36 10 6 1 6 23 0 39 9 52 1		3 25 2 24	23 2 0 2			23n24 23n23	6 s 4 9	2 s30 5n42
5 23 0 39 9 52 1	7 17 18 0 48			4 11 1 31	1 55 15 46 2	23 24 23 23	6 51	2 32 5 42
			-		1 55 15 46 2		6 54	2 33 5 42
c 3 0 41 0 30 1	7 17 20 0 48	3 29 2 25		4 13 1 31		23 24 23 23		2 34 5 42
	7 17 23 0 48 7 17 25 0 47	3 31 2 25 3 33 2 25		4 14 1 31 4 14 1 31	1 54 15 47 2 1 54 15 47 2	23 24 23 23	7 0 7 2	2 35 5 42 2 36 5 41
	7 17 27 0 47	3 34 2 25		4 15 1 31	1 53 15 47 2			2 37 5 41
				4 16 1 31			7 8	2 39 5 41
4 38 0 50 8 40 1	6 17 32 0 47	3 38 2 25	23 3 0 2	4 17 1 31	1 53 15 48 2	23 23 23 22	7 11	2 40 5 41
4 16 0 53 8 25 1	6 17 34 0 47	3 40 2 25	23 3 0 2	4 18 1 31	1 52 15 48 2	23 23 23 22	7 14	2 41 5 41
				-				2 42 5 41
						-		2 43 5 41
				-				2 44 5 41 2 46 5 41
				_				2 47 5 40
				_				2 48 5 40
1 30 1 6 6 42 1	5 17 52 0 45	3 53 2 26	23 3 0 2	4 23 1 31	1 50 15 50 2	23 21 23 21	7 33	2 49 5 40
1 5 1 8 6 27 1	5 17 54 0 45	3 55 2 26	23 3 0 2	4 24 1 31	1 49 15 50 2	23 21 23 21	7 36	2 50 5 40
0 39 1 9 6 12 1				4 25 1 31				2 51 5 40
				-				2 53 5 40
								2 54 5 40 2 55 5 39
								2 56 5 39
8 27 1 17 4 56 1	4 18 10 0 44	4 6 2 26	23 3 0 2	4 29 1 31	1 47 15 52 2	23 21 23 21	7 53	2 57 5 39
							7 55	2 58 5 39
7 33 1 19 4 26 1				4 31 1 31			7 58	3 0 5 39
7 5 1 20 4 10 1	. 10 10 0			4 32 1 31			8 1	3 1 5 38
								3 2 5 38
								3 3 5 38 3s 4 5n38
4 4 3 3 3 2 2 1 1 1 0 0 9 8 8 7 7 6 6	38         0         50         8         40         1           16         0         53         8         25         1           54         0         55         8         10         1           31         0         57         7         56         1           7         0         59         7         41         1           43         1         1         7         26         1           19         1         2         7         11         1           55         1         4         6         56         1           30         1         6         6         42         1           5         1         8         6         27         1           39         1         9         6         12         1           13         1         11         5         56         1           47         1         12         5         41         1           54         1         15         5         11         1           27         1         17         4         56         1	38         0         50         8         40         1         6         17         32         0         47           16         0         53         8         25         1         6         17         34         0         47           54         0         55         8         10         1         6         17         34         0         47           54         0         55         8         10         1         6         17         39         0         46           7         0         59         7         41         1         6         17         42         0         46           43         1         1         7         26         1         6         17         44         0         46           19         1         2         7         11         1         6         17         49         0         46           30         1         6         6         42         1         5         17         52         0         45           5         1         8         6         27         1         5         17         5	38         0         50         8         40         1         6         17         32         0         47         3         38         2         2         51         6         17         34         0         47         3         40         2         2         25         54         0         55         8         10         1         6         17         37         0         46         3         42         2         2         53         1         0         57         7         56         1         6         17         39         0         46         3         42         2         25         7         0         59         7         41         1         6         17         42         0         46         3         42         2         25         7         0         59         7         41         1         6         17         42         0         46         3         44         2         25         19         1         2         7         11         1         6         17         49         0         46         3         50         2         2         26         5 <t< th=""><th>38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2           54         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2           54         0         55         8         10         1         6         17         37         0         46         3         42         2         25         23         3         0         2           31         0         57         7         56         1         6         17         39         0         46         3         44         2         25         23         3         0         2           43         1         1         7         26         1         6         17         44         0         46         3         48         2         25         23         3         0         2           19         1         2         7         11</th><th>38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         3           16         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         57         7         56         1         6         17         39         0         46         3         42         2         25         23         3         0         2         4         18         1         31           7         0         59         7         41         1         6         17         42         0         46         3         46         2         25         23         3         0         2         4         20         1         13         11         1         6         6         7         4         0         46         3         46         2         25&lt;</th><th>38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         2           54         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         52         15         48         2           31         0         57         7         56         1         6         17         39         0         46         3         44         2         25         23         3         0         2         4         19         1         31         1         52         15         48         2         25         23         3         0         2         4         20         1         31         1         52         15         49         2         25         23         3         0</th><th>38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         23         23         22         22         2         2         3         0         2         4         18         1         1         51         48         23         23         23         22         2         2         2         2         2         2         4         18         1         3         1         52         15         48         23         23         23         2         2         2         3         0         2         4         18         1         3         1         5         7         7         56         1         6         17         42         0         46         3         42         2         2         2         3         0         2         4         19         1         3         1         1         5         1         5         48         23         23         2<th>38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         23         23         22         7         11           16         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         52         15         48         23         23         22         7         14           54         0         55         8         10         1         6         17         34         0         42         2         25         23         3         0         2         4         19         1         31         15         49         23         22         23         22         25         23         3         0         2         4         20         1         31         1         50</th></th></t<>	38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2           54         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2           54         0         55         8         10         1         6         17         37         0         46         3         42         2         25         23         3         0         2           31         0         57         7         56         1         6         17         39         0         46         3         44         2         25         23         3         0         2           43         1         1         7         26         1         6         17         44         0         46         3         48         2         25         23         3         0         2           19         1         2         7         11	38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         3           16         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         57         7         56         1         6         17         39         0         46         3         42         2         25         23         3         0         2         4         18         1         31           7         0         59         7         41         1         6         17         42         0         46         3         46         2         25         23         3         0         2         4         20         1         13         11         1         6         6         7         4         0         46         3         46         2         25<	38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         2           54         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         52         15         48         2           31         0         57         7         56         1         6         17         39         0         46         3         44         2         25         23         3         0         2         4         19         1         31         1         52         15         48         2         25         23         3         0         2         4         20         1         31         1         52         15         49         2         25         23         3         0	38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         23         23         22         22         2         2         3         0         2         4         18         1         1         51         48         23         23         23         22         2         2         2         2         2         2         4         18         1         3         1         52         15         48         23         23         23         2         2         2         3         0         2         4         18         1         3         1         5         7         7         56         1         6         17         42         0         46         3         42         2         2         2         3         0         2         4         19         1         3         1         1         5         1         5         48         23         23         2 <th>38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         23         23         22         7         11           16         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         52         15         48         23         23         22         7         14           54         0         55         8         10         1         6         17         34         0         42         2         25         23         3         0         2         4         19         1         31         15         49         23         22         23         22         25         23         3         0         2         4         20         1         31         1         50</th>	38         0         50         8         40         1         6         17         32         0         47         3         38         2         25         23         3         0         2         4         17         1         31         1         53         15         48         23         23         22         7         11           16         0         53         8         25         1         6         17         34         0         47         3         40         2         25         23         3         0         2         4         18         1         31         1         52         15         48         23         23         22         7         14           54         0         55         8         10         1         6         17         34         0         42         2         25         23         3         0         2         4         19         1         31         15         49         23         22         23         22         25         23         3         0         2         4         20         1         31         1         50

 $\label{eq:Julian Day Number = 2493060.5, Delta T = 99.89 sec} \\ Ecliptic obliquity = 23°25'29, Nutation = -0°00'17, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°19'42, Lahiri = 25°26'43 \\ \\$ 

OCTOBER 2113 00:00 UT

Day	Sid.t	0	D	ğ	φ	ď	4	ħ	<b>)</b> {	卉	Р	ß	Ω	Ç	o K	Day
S 1	0 38 40	7 <b>≏</b> 46'09	25 <b>II</b> 5	27°R30	20 mg 5	24 Mp 30	25 <b>M</b> .43	24°R45	19°R42	15 <b>≏</b> 11	17°R23	24°D32	25 <b>II</b> 3	1 <b>M</b> .46	8°R42	S 1
M 2	0 42 37	8°45'05	89541	27 <b>♀</b> 17	21°19	25° 8	25°54	24 <b>) (</b> 40	19∏42	15°13	17822	24°R33	25° 0	1°52	8 <b>)</b> 39	M 2
T 3	0 46 34	9°44'04	21°56	26°56	22°34	25°47	26° 5	24°36	19°42	15°15	17°22	24∏32	24°57	1°59	8°37	T 3
W 4	0 50 30	10°43'04	4 <b>Ω</b> 52	26°28	23°48	26°25	26°16	24°32	19°41	15°18	17°21	24°30	24°54	2° 6	8°34	W 4
T 5	0 54 27	11°42'07	17°32	25°52	25° 3	27° 4	26°28	24°27	19°41	15°20	17°20	24°25	24°50	2°12	8°32	T 5
F 6	0 58 23	12°41'12	29°59	25° 9	26°17	27°42	26°39	24°23	19°40	15°22	17°19	24°17	24°47	2°19	8°30	F 6
S 7	1 2 20	13°40'19	12 <b>m</b> )17	24°18	27°32	28°20	26°50	24°19	19°40	15°24	17°18	24° 7	24°44	2°26	8°28	S 7
S 8	1 6 16	14°39'29	24°26	23°21	28°46	28°59	27° 1	24°14	19°39	15°27	17°17	23°55	24°41	2°33	8°25	S 8
M 9	1 10 13	15°38'40	6 <b>॒</b> 28	22°18	0 <b>호</b> 1	29°37	27°13	24°10	19°38	15°29	17°16	23°42	24°38	2°39	8°23	M 9
T 10	1 14 9	16°37'54	18°24	21°11	1°16	0 <b>ჲ</b> 16	27°24	24° 6	19°38	15°31	17°15	23°29	24°34	2°46	8°21	T 10
W11	1 18 6	17°37'09	0 <b>M</b> .16	20° 1	2°30	0°54	27°36	24° 2	19°37	15°33	17°14	23°18	24°31	2°53	8°19	W11
T 12	1 22 3	18°36'27	12° 5	18°50	3°45	1°32	27°48	23°58	19°36	15°36	17°13	23° 8	24°28	2°59	8°17	T 12
F 13	1 25 59	19°35'46	23°54	17°39	5° 0	2°11	27°59	23°54	19°35	15°38	17°12	23° 1	24°25	3° 6	8°15	F 13
S 14	1 29 56	20°35'08	5 <b>√</b> 144	16°32	6°15	2°49	28°11	23°50	19°34	15°40	17°11	22°57	24°22	3°13	8°13	S 14
S 15	1 33 52	21°34'31	17°40	15°29	7°30	3°28	28°23	23°46	19°33	15°42	17°10	22°D56	24°19	3°19	8°11	S 15
M16	1 37 49	22°33'57	29°46	14°32	8°44	4° 6	28°35	23°43	19°32	15°45	17° 9	22°56	24°15	3°26	8° 9	M16
T 17	1 41 45	23°33'24	12る 5	13°44	9°59	4°45	28°47	23°39	19°31	15°47	17° 8	22°57	24°12	3°33	8° 8	T 17
W18	1 45 42	24°32'52	24°44	13° 6	11°14	5°23	28°59	23°35	19°30	15°49	17° 7	22°R57	24° 9	3°39	8° 6	W18
T 19	1 49 38	25°32'23	7≈47	12°37	12°29	6° 2	29°11	23°32	19°29	15°51	17° 6	22°56	24° 6	3°46	8° 4	T 19
F 20	1 53 35	26°31'55	21°17	12°20	13°44	6°40	29°23	23°28	19°28	15°53	17° 5	22°53	24° 3	3°53	8° 2	F 20
S 21	1 57 32	27°31'29	5 <b>₩</b> 17	12°D14	14°59	7°19	29°35	23°25	19°26	15°56	17° 4	22°49	24° 0	4° 0	8° 1	S 21
S 22	2 1 28	28°31'05	19°46	12°19	16°14	7°57	29°48	23°21	19°25	15°58	17° 3	22°42	23°56	4° 6	7°59	S 22
M23	2 5 25	29°30'42	<b>4</b> Υ40	12°34	17°29	8°36	0 🗖 0	23°18	19°24	16° 0	17° 2	22°34	23°53	4°13	7°58	M23
T 24	2 9 21	0MJ30'21	19°52	13° 0	18°44	9°14	0°12	23°15	19°22	16° 2	17° 1	22°26	23°50	4°20	7°56	T 24
W25	2 13 18	1°30'02	5 <b>8</b> 11	13°35	19°59	9°53	0°25	23°12	19°21	16° 4	17° 0	22°18	23°47	4°26	7°55	W25
T 26	2 17 14	2°29'46	20°26	14°20	21°14	10°31	0°37	23° 9	19°19	16° 6	16°59	22°13	23°44	4°33	7°54	T 26
F 27	2 21 11	3°29'31	5 <b>Ⅱ</b> 28	15°12	22°29	11°10	0°50	23° 6	19°18	16° 9	16°58	22° 9	23°40	4°40	7°52	F 27
S 28	2 25 7	4°29'18	20° 7	16°11	23°44	11°49	1° 3	23° 3	19°16	16°11	16°57	22°D 8	23°37	4°46	7°51	S 28
S 29	2 29 4	5°29'08	49521	17°16	24°59	12°27	1°15	23° 0	19°15	16°13	16°56	22° 9	23°34	4°53	7°50	S 29
M30	2 33 1	6°29'00	18° 7	18°27	26°14	13° 6	1°28	22°57	19°13	16°15	16°55	22°10	23°31	5° 0	7°49	M30
T 31	2 36 57	7 <b>M</b> 28'54	1 <b>Q</b> 26	19 <b>≏</b> 43	27 <b>≏</b> 29	13 <b>≏</b> 45	1 <b>₹</b> 41	22 <b>米</b> 55	19 <b>Ⅱ</b> 11	16 <b>≏</b> 17	16 <b>8</b> 53	22°R11	23 <b>Ⅱ</b> 28	5M 6	7 <b>) (</b> 48	T 31

Day	0	D	ğ	φ	♂	4	ħ	)Å(	卉	Р	w v	Ç	ķ
	decl	decl lat	decl lat	decl lat	lecl 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	3 28 3 51 4 14 4 37 5 1	24 23 1 14 23 56 2 20 22 13 3 16 19 24 4 2 15 45 4 35	13 32 3 34	4 44 1 25 2	7 1 2 52 1 2	18 32 0 43 18 34 0 43 18 37 0 42 18 40 0 42 18 43 0 42	4s19 2s26 4 21 2 26 4 23 2 26 4 24 2 26 4 26 2 26 4 28 2 26 4 29 2 26	23 3 0 2 23 3 0 2 23 3 0 2 23 3 0 2	4 36 1 31 4 37 1 31 4 38 1 31 4 38 1 31 4 39 1 31	1 44 15 53 1 43 15 53 1 43 15 54 1 42 15 54 1 42 15 54	23n19 23n20 23 19 23 20 23 19 23 20 23 19 23 20 23 18 23 19 23 18 23 19 23 18 23 19 23 18 23 19	8 s 12 8 15 8 18 8 20 8 23 8 26 8 29	
S 8 M 9 T 10 W11 T 12 F 13 S 14	7 40	1 56 4 54	9 6 1 52	1 21 1 29 1 0 51 1 29 0 0 22 1 29 0 0s 8 1 29 0 0 37 1 29 0	21 1 2 6 1 2 50 1 1 35 1 1 19 1 1 4 1 1 s12 1 1		4 31 2 26 4 32 2 26 4 34 2 25 4 36 2 25 4 37 2 25 4 39 2 25 4 40 2 25	23 3 0 2 23 3 0 2	4 42 1 31 4 43 1 31 4 44 1 31 4 44 1 31 4 45 1 31	1 41 15 54 1 41 15 55 1 40 15 55 1 40 15 55 1 39 15 55	23 17 23 19 23 16 23 19 23 16 23 19 23 15 23 19 23 15 23 19 23 14 23 18 23 14 23 18	8 31 8 34 8 37 8 40 8 43 8 45 8 48	3 13 5 36 3 14 5 35 3 15 5 35 3 16 5 35 3 17 5 35 3 18 5 34 3 19 5 34
S 15 M16 T 17 W18 T 19 F 20 S 21	8 47 9 9 9 30 9 52	18 31 4 21	6 12 0 31 5 35 0 11 5 2 0n 8 4 35 0 26 4 12 0 43	2 6 1 29 0 2 36 1 29 0 3 5 1 28 1 3 35 1 28 1 4 4 1 28 1	13 1 0 29 0 59 44 0 59	19 10 0 41 19 13 0 41	4 41 2 25 4 43 2 25 4 44 2 25 4 46 2 25 4 47 2 25 4 48 2 25 4 49 2 24	23 3 0 2 23 3 0 2 23 3 0 2 23 3 0 2 23 3 0 2	4 48 1 31 4 49 1 31 4 49 1 31 4 50 1 31 4 51 1 31	1 38 15 55 1 38 15 55 1 37 15 56 1 37 15 56 1 37 15 56	23 14 23 18 23 14 23 17 23 14 23 17	8 51 8 54 8 56 8 59 9 2 9 5 9 7	3 20 5 34 3 21 5 33 3 22 5 33 3 23 5 33 3 24 5 33 3 24 5 32 3 25 5 32
S 22 M23 T 24 W25 T 26 F 27 S 28		8 44 5 6 2 44 4 59 3n34 4 32 9 42 3 45 15 14 2 42 19 45 1 29 22 53 0 11	3 40 1 25 3 40 1 35 3 46 1 44 3 56 1 52	5 32 1 26 2 6 1 1 25 2 6 30 1 25 3 6 59 1 24 3 7 28 1 23 3	31 0 59 46 0 58 1 0 58 17 0 58 32 0 58	19 32 0 40	4 51 2 24 4 52 2 24 4 53 2 24 4 54 2 24 4 55 2 24 4 56 2 24 4 57 2 24	23 2 0 2 23 2 0 2	4 54 1 31 4 54 1 31 4 55 1 31 4 56 1 31 4 57 1 31	1 36 15 56 1 35 15 56 1 35 15 56 1 35 15 56 1 34 15 56	23 13 23 17 23 13 23 17 23 13 23 17 23 12 23 17 23 12 23 17 23 12 23 16 23 11 23 16	9 10 9 13 9 16 9 19 9 21 9 24 9 27	3 27 5 31 3 28 5 31
S 29 M30 T 31	13 21 13 40 14s 0		5 16 2 7	8 53 1 20 4	18 0 57	19 46 0 39 19 48 0 39 19 s51 0n39	4 58 2 23 4 59 2 23 5s 0 2s23		4 59 1 31	1 33 15 56	23 12 23 16 23 12 23 16 23n12 23n16	9 30 9 32 9s35	3 33 5 29

Julian Day Number = 2493090.5, Delta T = 99.93 sec Ecliptic obliquity =  $23^{\circ}25'29$ , Nutation = -  $0^{\circ}00'18$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'47$ , Lahiri =  $25^{\circ}26'47$ 

NOVEMBER 2113 00:00 UT

Day	Sid.t	0	D	ğ	Q	ď	4	ħ	)∤(	卉	В	ß	Ω	Ç	ę k	Day
W 1	2 40 54	8M28'51	14 <b>Ω</b> 23	21 <b>♀</b> 3	28 <b>≏</b> 44	14 <b>≏</b> 23	1 <b>₹</b> 53	22°R52	19°R10	16 <b>₽</b> 19	16°R52	22°R11	23耳25	5 <b>M</b> .13	7°R47	W 1
T 2	2 44 50	9°28'49	27° 0	22°26	29°59	15° 2	2° 6	22 <b>米</b> 50	19 <b>I</b> 8	16°21	16851	22 <b>II</b> 9	23°21	5°20	7 <b>) (</b> 46	T 2
F 3	2 48 47	10°28'50	9 <b>m</b> 21	23°52	1 <b>M</b> .15	15°41	2°19	22°47	19° 6	16°23	16°50	22° 6	23°18	5°26	7°45	F 3
S 4	2 52 43	11°28'52	21°30	25°20	2°30	16°19	2°32	22°45	19° 4	16°26	16°49	22° 0	23°15	5°33	7°44	S 4
S 5	2 56 40	12°28'57	3 <b>₾</b> 31	26°50	3°45	16°58	2°45	22°43	19° 2	16°28	16°48	21°53	23°12	5°40	7°43	S 5
M 6	3 0 36	13°29'04	15°25	28°22	5° 1	17°37	2°58	22°41	19° 1	16°30	16°47	21°46	23° 9	5°47	7°42	M 6
T 7	3 4 3 3	14°29'13	27°17	29°56	6°16	18°15	3°11	22°39	18°59	16°32	16°46	21°39	23° 6	5°53	7°42	T 7
W 8	3 8 30	15°29'23	9 <b>™</b> 7	1 <b>M</b> 30	7°31	18°54	3°24	22°37	18°57	16°34	16°45	21°32	23° 2	6° 0	7°41	W 8
T 9	3 12 26	16°29'36	20°57	3° 5	8°46	19°33	3°37	22°35	18°55	16°36	16°43	21°27	22°59	6° 7	7°40	T 9
F 10	3 16 23	17°29'50	2 <b>√</b> 49	4°41	10° 2	20°12	3°50	22°33	18°53	16°38	16°42	21°23	22°56	6°13	7°40	F 10
S 11	3 20 19	18°30'06	14°46	6°17	11°17	20°50	4° 3	22°32	18°50	16°40	16°41	21°21	22°53	6°20	7°40	S 11
S 12	3 24 16	19°30'24	26°48	7°53	12°32	21°29	4°16	22°30	18°48	16°42	16°40	21°D21	22°50	6°27	7°39	S 12
M13	3 28 12	20°30'43	9号 0	9°30	13°48	22° 8	4°29	22°29	18°46	16°44	16°39	21°22	22°46	6°33	7°39	M13
T 14	3 32 9	21°31'04	21°25	11° 7	15° 3	22°47	4°43	22°28	18°44	16°46	16°38	21°24	22°43	6°40	7°39	T 14
W15	3 36 5	22°31'26	4≈ 5	12°43	16°18	23°26	4°56	22°27	18°42	16°47	16°37	21°26	22°40	6°47	7°38	W15
T 16	3 40 2	23°31'49	17° 6	14°20	17°34	24° 4	5° 9	22°25	18°40	16°49	16°36	21°27	22°37	6°53	7°38	T 16
F 17	3 43 59	24°32'14	0 <b>∺</b> 29	15°57	18°49	24°43	5°22	22°24	18°37	16°51	16°34	21°R27	22°34	7° 0	7°38	F 17
S 18	3 47 55	25°32'40	14°17	17°33	20° 4	25°22	5°36	22°24	18°35	16°53	16°33	21°26	22°31	7° 7	7°D38	S 18
S 19	3 51 52	26°33'08	28°31	19°10	21°20	26° 1	5°49	22°23	18°33	16°55	16°32	21°23	22°27	7°13	7°38	S 19
M20	3 55 48	27°33'36	13 <b>Y</b> 9	20°46	22°35	26°40	6° 2	22°22	18°31	16°57	16°31	21°20	22°24	7°20	7°38	M20
T 21	3 59 45	28°34'06	28° 5	22°22	23°51	27°19	6°16	22°22	18°28	16°58	16°30	21°17	22°21	7°27	7°38	T 21
W22	4 3 41	29°34'38	13 <b>8</b> 14	23°58	25° 6	27°58	6°29	22°21	18°26	17° 0	16°29	21°14	22°18	7°34	7°39	W22
T 23	4 7 38	0 <b>₮</b> 35'11	28°24	25°34	26°21	28°36	6°42	22°21	18°23	17° 2	16°28	21°12	22°15	7°40	7°39	T 23
F 24	4 11 34	1°35'45	13 <b>Ⅱ</b> 27	27° 9	27°37	29°15	6°56	22°21	18°21	17° 4	16°27	21°11	22°12	7°47	7°39	F 24
S 25	4 15 31	2°36'21	28°13	28°44	28°52	29°54	7° 9	22°20	18°19	17° 5	16°26	21°D11	22° 8	7°54	7°40	S 25
S 26	4 19 28	3°36'58	12937	0 <b>₹</b> 20	0 <b>∡</b> 8	0 <b>M</b> 33	7°22	22°D20	18°16	17° 7	16°25	21°12	22° 5	8° 0	7°40	S 26
M27	4 23 24	4°37'37	26°34	1°55	1°23	1°12	7°36	22°20	18°14	17° 9	16°24	21°13	22° 2	8° 7	7°41	M27
T 28	4 27 21	5°38'18	10 <b>N</b> 4	3°29	2°39	1°51	7°49	22°21	18°11	17°10	16°22	21°14	21°59	8°14	7°41	T 28
W29	4 31 17	6°39'00	23° 8	5° 4	3°54	2°30	8° 3	22°21	18° 9	17°12	16°21	21°15	21°56	8°20	7°42	W29
T 30	4 35 14	7 <b>.₹</b> 39'44	5 <b>m</b> 49	6 <b>₹</b> 39	5 <b>₹</b> 9	3M 9	8 <b>.7</b> 16	22 <b>)</b> (21	18 <b>I</b> I 6	17 <b>≏</b> 14	16820	21°R16	21 <b>Ⅱ</b> 52	8 <b>M</b> 27	7 <b>) (</b> 42	T 30

Day	0	D		ζ	5	Q.		ď	7	2	+	†	i	)	ľ(	j	ħ	Р	n	v	ţ	ķ	
	decl	decl la	t	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl lat	decl	decl	decl	decl	lat
W 1	14 s19	20n25	4n 5	6s14	2n 8	9 s 4 9	1n18	4 s48	0n56	19s54	0n39	5 s 1	2 s23	23n 1	0n 2	5 s 1	1n31	1n33 15 s5	7 23n12	23n16	9s38	3 s34	5n28
T 2	14 38	16 54 4	4 40	6 45	2 7		1 16	5 3		19 56	0 39	5 2			0 2	5 2	1 31	1 32 15 5			9 41	3 35	5 28
F 3	14 57	12 43	5 2	7 19	2 5	10 44	1 15	5 19		19 59	0 39	5 3			0 2	5 2	1 31	1 32 15 5			9 43	3 35	5 27
S 4	15 16	8 6 5	5 10	7 53	2 3	11 11	1 14	5 34	0 55	20 2	0 38	5 3	2 23	23 1	0 2	5 3	1 31	1 32 15 5	7 23 11	23 15	9 46	3 36	5 27
S 5	15 34	3 15 5	5 3	8 29	2 (	11 38	1 12	5 49	0 55	20 4	0 38	5 4	2 22		0 2	5 4	1 31	1 31 15 5	7 23 11	23 15	9 49	3 37	5 27
M 6	15 53	1 s42	4 44	9 5	1 56	12 4	1 11	6 4	0 55	20 7	0 38	5 5	2 22	23 1	0 2	5 5	1 31	1 31 15 5	7 23 10	23 15	9 52	3 37	5 26
T 7	16 11	6 34 4	4 12		1 52		1 9	6 19	0 55		0 38	5 5	2 22		0 2	5 5	1 31	1 31 15 5			9 54	3 38	5 26
W 8	16 28			10 19	1 47		1 8	6 34		20 12	0 38	5 6			0 2	5 6	1 31	1 31 15 5		23 15	9 57	3 38	5 26
T 9	16 45			10 56	1 42		1 6	6 49		20 14	0 38	5 7			0 2		1 31	1 30 15 5		23 14		3 39	5 25
F 10	17 3			11 33	1 37		1 5	7 4			0 38	5 7		23 0			1 31	1 30 15 5		23 14		3 39	5 25
S 11	17 19	21 57 (	0 36	12 10	1 31	14 13	1 3	7 18	0 53	20 20	0 38	5 8	2 21	23 0	0 2	5 8	1 31	1 30 15 5	7 23 9	23 14	10 5	3 40	5 25
S 12				12 47	1 25		1 1	7 33		20 22	0 38	5 8			-			1 29 15 5		23 14		3 40	5 24
M13				13 24	1 19		0 59	7 48		20 25	0 38	5 8			-		-	1 29 15 5		23 14	-	3 41	5 24
T 14	18 8			14 0		15 25	0 58	8 3		20 27	0 37	5 9					1 31	1 29 15 5		23 13		3 41	5 23
W15				14 35	1 7		0 56	8 17		20 30	0 37	5 9					1 31	1 29 15 5		23 13		3 42	5 23
T 16	18 39			15 11	1 (		0 54	8 32		20 32	0 37	5 9	-				1 31	1 29 15 5		23 13		3 42	5 23
F 17				15 45		16 35	0 52	8 46		20 35	0 37	5 9					1 31	1 28 15 5		23 13		3 43	5 22
S 18	19 8	10 59	5 12	16 19	0 47	16 57	0 50	9 1	0 51	20 37	0 37	5 10	2 20	22 59	0 2	5 13	1 31	1 28 15 5	6 23 9	23 13	10 25	3 43	5 22
S 19	19 22		-	16 52	0 40		0 48	9 15		20 39	0 37	5 10		22 58	-	-	-	1 28 15 5		23 13		3 43	5 22
M20	19 36	-	-	17 24	0 33		0 46	9 30		20 42	0 37	5 10	-		-			1 28 15 5		23 12			5 21
T 21	19 50			17 56	0 26		0 44	9 44		20 44	0 37	5 10	-			-		1 27 15 5		23 12		3 44	5 21
W22	20 3			18 27	0 19		0 42	9 58		20 47	0 37	5 10		22 58			-	1 27 15 5		23 12		3 44	5 20
T 23 F 24		-,		18 56		18 41		10 12		20 49	0 37	5 10		22 58			1 32	1 27 15 5		23 12		3 44	5 20
S 25	20 28			19 25 19 53		19 1	0 37 0 35	10 26		20 51 20 53	0 37 0 36	5 10 5 10	-	22 57 22 57		,	1 32 1 32	1 27 15 5 1 27 15 5		23 12 23 11	-	3 45 3 45	5 20 5 19
	20 40	24 4 (	Un39	19 33	US I	19 19	0 33	10 40	0 49	20 33	0 30	5 10				3 18	1 32	1 2/ 15 5	23 8	23 11	10 44	3 43	5 19
S 26		-		20 20		19 38	0 33			20 56	0 36	5 9		22 57		-	_	1 27 15 5		23 11		3 45	5 19
M27	21 3			20 46	0 15			11 8		20 58	0 36	5 9		22 57				1 26 15 5		23 11		3 45	5 19
_				21 11	0 21		0 28		0 48		0 36	5 9		22 57				1 26 15 5		23 11		3 45	5 18
				21 35		3 20 29	0 26		0 47		0 36	5 9	-	22 56				1 26 15 5		23 11		3 45	5 18
T 30	21 s34	14n 6	5n 5	21 s58	0 s 3 4	20 s45	0n24	11 s49	0n47	21 s 5	0n36	5s 8	2s18	22n56	0n 3	5 s 2 1	1n32	1n26 15 s5	5 23n 8	23n11	10s57	3 s45	5n17

Julian Day Number = 2493121.5, Delta T = 99.97 sec Ecliptic obliquity = 23°25'29, Nutation = -0°00'18, out-of-bounds declination in red Ayanamsha: Fagan/Bradley = 26°19'51, Lahiri = 25°26'51

DECEMBER 2113 00:00 UT

Day	Sid.t	0	D	ğ	ρ	ď	4	ħ	)ф(	并	В	n	v	Ç	ķ	Day
F 1	4 39 10	8 <b>∡</b> 140'29	18 <b>m</b> )11	8 <b>√</b> 13	6 <b>₹</b> 25	3 <b>M</b> .48	8 <b>∡</b> ³30	22 <b>)</b> 22	18°R 4	17 <b>₽</b> 15	16°R19	21°R16	21 <b>II</b> 49	8 <b>M</b> .34	7 <b>)</b> (43	F 1
S 2	4 43 7	9°41'16	0 <u>م</u> 19	9°48	7°40	4°27	8°43	22°22	18 <b>I</b> 1	17°17	16818	21 <b>I</b> I15	21°46	8°40	7°44	S 2
S 3	4 47 3	10°42'04	12°16	11°22	8°56	5° 6	8°56	22°23	17°59	17°18	16°17	21°13	21°43	8°47	7°45	S 3
M 4	4 51 0	11°42'54	24° 7	12°56	10°11	5°45	9°10	22°24	17°56	17°20	16°16	21°12	21°40	8°54	7°46	M 4
T 5	4 54 57	12°43'45	5 <b>M</b> .57	14°30	11°27	6°25	9°23	22°25	17°54	17°21	16°15	21°11	21°37	9° 0	7°47	T 5
W 6	4 58 53	13°44'37	17°47	16° 4	12°42	7° 4	9°37	22°26	17°51	17°23	16°14	21°10	21°33	9° 7	7°48	W 6
T 7	5 2 50	14°45'31	29°40	17°38	13°58	7°43	9°50	22°27	17°49	17°24	16°13	21° 9	21°30	9°14	7°49	T 7
F 8	5 6 46	15°46'26	11 <b>×</b> 740	19°13	15°13	8°22	10° 4	22°28	17°46	17°25	16°12	21° 8	21°27	9°20	7°50	F 8
S 9	5 10 43	16°47'22	23°47	20°47	16°29	9° 1	10°17	22°30	17°44	17°27	16°11	21°D 8	21°24	9°27	7°51	S 9
S 10	5 14 39	17°48'19	6 <b>ප</b> 3	22°21	17°44	9°40	10°30	22°31	17°41	17°28	16°10	21° 8	21°21	9°34	7°53	S 10
M11	5 18 36	18°49'16	18°30	23°55	19° 0	10°19	10°44	22°33	17°38	17°29	16°10	21° 9	21°18	9°40	7°54	M11
T 12	5 22 32	19°50'15	1≈ 9	25°29	20°15	10°58	10°57	22°35	17°36	17°31	16° 9	21° 9	21°14	9°47	7°55	T 12
W13	5 26 29	20°51'14	14° 2	27° 3	21°31	11°38	11°11	22°36	17°33	17°32	16° 8	21°R 9	21°11	9°54	7°57	W13
T 14	5 30 26	21°52'14	27°10	2 <u>8°</u> 37	22°46	12°17	11°24	22°38	17°31	17°33	16° 7	21° 9	21° 8	10° 1	7°58	T 14
F 15	5 34 22	22°53'14	10 <b>)</b> 35	0 <b>궁</b> 12	24° 2	12°56	11°37	22°40	17°28	17°34	16° 6	21° 9	21° 5	10° 7	8° 0	F 15
S 16	5 38 19	23°54'15	24°18	1°46	25°17	13°35	11°51	22°42	17°26	17°35	16° 5	21°D 9	21° 2	10°14	8° 1	S 16
S 17	5 42 15	24°55'16	8 <b>Υ</b> 18	3°21	26°33	14°14	12° 4	22°45	17°23	17°36	16° 4	21° 9	20°58	10°21	8° 3	S 17
M18	5 46 12	25°56'18	22°36	4°55	27°48	14°54	12°17	22°47	17°21	17°38	16° 3	21° 9	20°55	10°27	8° 5	M18
T 19	5 50 8	26°57'20	7 <b>8</b> 9	6°30	29° 4	15°33	12°30	22°49	17°18	17°39	16° 3	21°10	20°52	10°34	8° 7	T 19
W20	5 54 5	27°58'23	21°52	8° 4	0 <b>궁</b> 19	16°12	12°44	22°52	17°16	17°40	16° 2	21°10	20°49	10°41	8° 8	W20
T 21	5 58 2	28°59'26	6 <b>Ⅱ</b> 40	9°39	1°35	16°51	12°57	22°54	17°13	17°41	16° 1	21°11	20°46	10°47	8°10	T 21
F 22	6 1 58	0궁 0'29	21°26	11°13	2°50	17°31	13°10	22°57	17°11	17°42	16° 0	21°R11	20°43	10°54	8°12	F 22
S 23	6 5 55	1° 1'33	6 <b>9</b> 2	12°48	4° 6	18°10	13°23	23° 0	17° 8	17°43	15°59	21°11	20°39	11° 1	8°14	S 23
S 24	6 9 51	2° 2'38	20°23	14°22	5°21	18°49	13°36	23° 3	17° 6	17°43	15°59	21°10	20°36	11° 7	8°16	S 24
M25	6 13 48	3° 3'43	$4\Omega$ 22	15°56	6°37	19°28	13°49	23° 6	17° 3	17°44	15°58	21° 8	20°33	11°14	8°18	M25
T 26	6 17 44	4° 4'49	17°58	17°30	7°52	20° 8	14° 2	23° 9	17° 1	17°45	15°57	21° 7	20°30	11°21	8°20	T 26
W27	6 21 41	5° 5'55	1 Mp 9	19° 4	9° 7	20°47	14°15	23°12	16°59	17°46	15°57	21° 5	20°27	11°27	8°23	W27
T 28	6 25 37	6° 7'02	13°56	20°37	10°23	21°26	14°28	23°15	16°56	17°47	15°56	21° 3	20°24	11°34	8°25	T 28
F 29	6 29 34	7° 8'09	26°23	22°10	11°38	22° 6	14°41	23°19	16°54	17°47	15°55	21° 2	20°20	11°41	8°27	F 29
S 30	6 33 31	8° 9'17	8 <b>₾</b> 33	23°42	12°54	22°45	14°54	23°22	16°52	17°48	15°55	21°D 2	20°17	11°47	8°30	S 30
S 31	6 37 27	9 <b>ට</b> 10'25	20 <b>≏</b> 31	25 <b>る</b> 13	14 <b>る</b> 9	23 <b>M</b> 25	15 <b>∡</b> 7	23 <b>∺</b> 26	16 <b>Ⅱ</b> 49	17 <b>≏</b> 49	15 <b>8</b> 54	21 <b>II</b> 2	20 <b>Ⅱ</b> 14	11 <b>M</b> 54	8 <b>)</b> €32	S 31

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Julian Day Number = 2493151.5, Delta T = 100.02 sec Ecliptic obliquity =  $23^{\circ}25'29$ , Nutation = - $0^{\circ}00'18$ , out-of-bounds declination in red Ayanamsha: Fagan/Bradley =  $26^{\circ}19'55$ , Lahiri =  $25^{\circ}26'55$