



# Astrodienst Ephemeris Tables for the year 1414

tropical geocentric zodiac

contains Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, True Node, Moon's Node, Lilith, Chiron

Programming  
Dieter Koch and Alois Treindl  
based on Swiss Ephemeris  
Code D5EPX

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

JANUARY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	7 15 8	19°31'53"	13°33'	10°32'	18°23'	5°56'	5°21'	18°R 8	15°29'	6°R53	18°R 2	28°R 2	28°328	29°56'	21°38'	M 1
T 2	7 19 4	20°20'58"	27°20'	11°58'	19°37'	6°16'	5°32'	18°II 4	15°32'	6°51'	18°II 1	28°31'	28°25'	0°3'	21°44'	T 2
W 3	7 23 1	21°22'03"	10°II56	13°34'	20°51'	6°35'	5°44'	18° 0	15°35'	6°49'	18° 0	28° 0	28°22'	0°10'	21°49'	W 3
T 4	7 26 58	22°23'07"	24°20'	15°10'	22° 5	6°54'	5°55'	17°56'	15°39'	6°48'	17°59'	27°59'	28°19'	0°16'	21°54'	T 4
F 5	7 30 54	23°24'10"	7°30'	16°47'	23°19'	7°12'	6° 6	17°53'	15°42'	6°46'	17°58'	27°59'	28°15'	0°23'	22° 0	F 5
S 6	7 34 51	24°25'12"	20°27'	18°25'	24°33'	7°30'	6°17'	17°49'	15°45'	6°45'	17°57'	27°59'	28°12'	0°30'	22° 5	S 6
S 7	7 38 47	25°26'13"	3°9'	20° 3	25°47'	7°47'	6°28'	17°46'	15°49'	6°43'	17°56'	27°D59	28° 9	0°37'	22°10'	S 7
M 8	7 42 44	26°27'13"	15°37'	21°42'	27° 1	8° 5	6°39'	17°43'	15°52'	6°41'	17°55'	27°59'	28° 6	0°43'	22°15'	M 8
T 9	7 46 40	27°28'12"	27°53'	23°22'	28°15'	8°21'	6°50'	17°39'	15°55'	6°40'	17°54'	27°R59	28° 3	0°50'	22°19'	T 9
W10	7 50 37	28°29'11"	9°59'	25° 2	29°29'	8°37'	7° 0	17°36'	15°59'	6°38'	17°53'	27°59'	28° 0	0°57'	22°24'	W10
T 11	7 54 33	29°30'09"	21°56'	26°43'	0°43'	8°53'	7°11'	17°33'	16° 2	6°37'	17°52'	27°59'	27°56'	1° 3	22°29'	T 11
F 12	7 58 30	0°31'06"	3°48'	28°25'	1°56'	9° 8	7°22'	17°30'	16° 5	6°35'	17°51'	27°58'	27°53'	1°10'	22°34'	F 12
S 13	8 2 27	1°32'02"	15°40'	0°37'	3°10'	9°23'	7°32'	17°27'	16° 9	6°34'	17°51'	27°58'	27°50'	1°17'	22°38'	S 13
S 14	8 6 23	2°32'58"	27°35'	1°50'	4°24'	9°38'	7°42'	17°25'	16°12'	6°32'	17°50'	27°D58	27°47'	1°23'	22°42'	S 14
M15	8 10 20	3°33'53"	9°38'	3°33'	5°37'	9°51'	7°53'	17°22'	16°15'	6°31'	17°49'	27°58'	27°44'	1°30'	22°47'	M15
T 16	8 14 16	4°34'47"	21°54'	5°18'	6°51'	10° 5	8° 3	17°19'	16°19'	6°29'	17°48'	27°58'	27°41'	1°37'	22°51'	T 16
W17	8 18 13	5°35'40"	4°28'	7° 3	8° 5	10°18'	8°13'	17°17'	16°22'	6°28'	17°48'	27°59'	27°37'	1°44'	22°55'	W17
T 18	8 22 9	6°36'32"	17°22'	8°48'	9°18'	10°30'	8°23'	17°14'	16°26'	6°26'	17°47'	28° 0	27°34'	1°50'	22°59'	T 18
F 19	8 26 6	7°37'24"	0°37'	10°34'	10°31'	10°42'	8°33'	17°12'	16°29'	6°25'	17°46'	28° 1	27°31'	1°57'	23° 3	F 19
S 20	8 30 2	8°38'14"	14°22'	12°21'	11°45'	10°53'	8°42'	17°10'	16°33'	6°23'	17°45'	28° 1	27°28'	2° 4	23° 7	S 20
S 21	8 33 59	9°39'03"	28°27'	14° 9	12°58'	11° 3	8°52'	17° 8	16°36'	6°22'	17°45'	28°R 2	27°25'	2°10'	23°11'	S 21
M22	8 37 56	10°39'51"	12°52'	15°57'	14°11'	11°13'	9° 1	17° 6	16°40'	6°21'	17°44'	28° 1	27°21'	2°17'	23°15'	M22
T 23	8 41 52	11°40'37"	27°32'	17°46'	15°25'	11°23'	9°11'	17° 4	16°43'	6°19'	17°43'	28° 0	27°18'	2°24'	23°18'	T 23
W24	8 45 49	12°41'22"	12°19'	19°35'	16°38'	11°32'	9°20'	17° 2	16°46'	6°18'	17°43'	27°58'	27°15'	2°31'	23°22'	W24
T 25	8 49 45	13°42'06"	27° 6	21°24'	17°51'	11°40'	9°29'	17° 1	16°50'	6°17'	17°42'	27°56'	27°12'	2°37'	23°25'	T 25
F 26	8 53 42	14°42'47"	11°46'	23°13'	19° 4	11°48'	9°38'	16°59'	16°53'	6°16'	17°42'	27°54'	27° 9	2°44'	23°28'	F 26
S 27	8 57 38	15°43'27"	26°13'	25° 3	20°17'	11°55'	9°47'	16°58'	16°57'	6°14'	17°41'	27°53'	27° 6	2°51'	23°31'	S 27
S 28	9 1 35	16°44'06"	10°23'	26°52'	21°30'	12° 1	9°56'	16°57'	17° 0	6°13'	17°40'	27°D52	27° 2	2°57'	23°35'	S 28
M29	9 5 31	17°44'42"	24°16'	28°41'	22°43'	12° 7	10° 5	16°55'	17° 4	6°12'	17°40'	27°52'	26°59'	3° 4	23°38'	M29
T 30	9 9 28	18°45'17"	7°II50	0°42'29	23°55'	12°12'	10°13'	16°54'	17° 7	6°11'	17°39'	27°53'	26°56'	3°11'	23°40'	T 30
W31	9 13 25	19°45'50"	21°II 7	2°41'17	25°48'	12°16'	10°22'	16°II53	17°11'	6°10'	17°II39	27°54'	26°53'	3°18'	23°43'	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	22s 7	20n48	5n 5	24s35	1s28	16s57	1s40	0n 2	2n37	20s34	0n42	21n43	1s16	16s53	0s40	22n27	0s53	15n47	7s14	20s37	20s32	4s 7	15s55	2n24			
T 2	21 58	24 7	4 36	24 31	1 33	16 33	1 39	0s 5	2 38	20 36	0 42	21 43	1 16	16 52	0 40	22 27	0 53	15 47	7 13	20 38	20 33	4 10	15 56	2 25			
W 3	21 49	25 59	3 52	24 26	1 37	16 9	1 38	0 11	2 39	20 38	0 42	21 43	1 16	16 51	0 40	22 27	0 53	15 47	7 13	20 38	20 33	4 13	15 56	2 25			
T 4	21 39	26 19	2 56	24 20	1 41	15 44	1 38	0 18	2 40	20 40	0 42	21 43	1 15	16 50	0 40	22 27	0 53	15 47	7 13	20 38	20 34	4 17	15 57	2 26			
F 5	21 29	25 9	1 51	24 12	1 45	15 19	1 37	0 24	2 41	20 42	0 42	21 43	1 15	16 49	0 40	22 27	0 53	15 47	7 13	20 38	20 35	4 20	15 58	2 26			
S 6	21 18	22 39	0 42	24 2	1 48	14 53	1 36	0 30	2 42	20 44	0 42	21 43	1 15	16 48	0 40	22 28	0 53	15 47	7 13	20 38	20 35	4 23	15 59	2 27			
S 7	21 7	19 3	0s29	23 51	1 52	14 27	1 35	0 36	2 43	20 46	0 42	21 43	1 15	16 47	0 40	22 28	0 53	15 47	7 13	20 38	20 36	4 26	16 0	2 27			
M 8	20 56	14 40	1 36	23 38	1 54	14 1	1 34	0 42	2 44	20 48	0 42	21 42	1 15	16 46	0 40	22 28	0 53	15 47	7 13	20 38	20 37	4 29	16 1	2 28			
T 9	20 44	9 46	2 39	23 24	1 57	13 34	1 33	0 48	2 45	20 49	0 42	21 42	1 14	16 45	0 40	22 28	0 53	15 47	7 12	20 38	20 37	4 32	16 1	2 28			
W10	20 32	4 34	3 33	23 9	1 59	13 7	1 31	0 53	2 46	20 51	0 42	21 42	1 14	16 44	0 40	22 28	0 53	15 47	7 12	20 38	20 38	4 35	16 2	2 29			
T 11	20 19	0s43	4 17	22 51	2 1	12 39	1 30	0 58	2 47	20 53	0 42	21 42	1 14	16 43	0 40	22 28	0 53	15 47	7 12	20 38	20 38	4 38	16 3	2 29			
F 12	20 6	5 56	4 50	22 32	2 2	12 12	1 29	1 3	2 48	20 55	0 42	21 42	1 14	16 42	0 40	22 28	0 53	15 47	7 12	20 38	20 39	4 41	16 4	2 29			
S 13	19 53	10 57	5 10	22 12	2 3	11 44	1 27	1 8	2 49	20 56	0 42	21 42	1 14	16 41	0 40	22 28	0 53	15 47	7 12	20 38	20 40	4 44	16 4	2 30			
S 14	19 39	15 34	5 17	21 50	2 4	11 15	1 26	1 13	2 51	20 58	0 42	21 42	1 14	16 40	0 40	22 28	0 53	15 48	7 12	20 38	20 40	4 47	16 5	2 30			
M15	19 25	19 39	5 11	21 26	2 4	10 47	1 24	1 17	2 52	21 0	0 42	21 42	1 13	16 39	0 40	22 28	0 53	15 48	7 11	20 38	20 41	4 50	16 6	2 31			
T 16	19 11	22 58	4 50	21 1	2 4	10 18	1 22	1 22	2 53	21 1	0 43	21 42	1 13	16 38	0 40	22 29	0 53	15 48	7 11	20 38	20 42	4 53	16 6	2 31			
W17	18 56	25 17	4 15	20 33	2 3	9 49	1 20	1 26	2 54	21 3	0 43	21 42	1 13	16 37	0 40	22 29	0 53	15 48	7 11	20 38	20 42	4 56	16 7	2 32			
T 18	18 41	26 21	3 27	20 5	2 2	9 19	1 19	1 29	2 55	21 4	0 43	21 42	1 13	16 36	0 40	22 29	0 53	15 48	7 11	20 38	20 43	4 59	16 7	2 32			
F 19	18 25	25 57	2 26	19 34	2 1	8 49	1 17	1 33	2 56	21 6	0 43	21 42	1 12	16 35	0 40	22 29	0 53	15 48	7 11	20 38	20 43	5 2	16 8	2 33			
S 20	18 10	23 59	1 15	19 2	1 58	8 20	1 15	1 37	2 57	21 7	0 43	21 42	1 12	16 34	0 40	22 29	0 53	15 48	7 11	20 37	20 44	5 5	16 8	2 34			
S 21	17 54	20 30	0n 2	18 29	1 56	7 50	1 12	1 40	2 58	21 9	0 43	21 42	1 12	16 33	0 40	22 29	0 53	15 48	7 10	20 37	20 45	5 8	16 9	2 34			
M22	17 37	15 42	1 21	17 54	1 52	7 19	1 10	1 43	2 59	21 10	0 43	21 42	1 12	16 32	0 40	22 29	0 53	15 48	7 10	20 37	20 45	5 11	16 9	2 35			
T 23	17 20	9 55	2 36	17 17	1 49	6 49	1 8	1 45	3 0	21 12	0 43	21 42	1 12	16 31	0 40	22 29	0 53	15 48	7 10	20 38	20 46	5 14	16 9	2 35			
W24	17 3	3 33	3 41	16 39	1 44	6 18	1 6	1 48	3 1	21 13	0 43	21 42	1 11	16 30	0 40	22 29	0 53	15 49	7 10	20 38	20 47	5 17	16 10	2 36			
T 25	16 46	2n59	4 31	15 59	1 39	5 47	1 3	1 50	3 2	21 15	0 43	21 42	1 11	16 29	0 40	22 29	0 53	15 49	7 10	20 38	20 47	5 20	16 10	2 36			
F 26	16 28	9 19	5 3	15 18	1 34	5 16	1 1	1 52	3 3	21 16	0 43	21 42	1 11	16 28	0 40	22 30	0 53	15 49	7 10	20 39	20 48	5 23	16 10	2 37			
S 27	16 10	15 3	5 15	14 35	1 27	4 45	0 58	1 54	3 4	21 17	0 43	21 42	1 11	16 27	0 40	22 30	0 53	15 49	7 9	20 39	20 48	5 26	16 11	2 37			
S 28	15 52	19 51	5 8	13 51	1 21	4 14	0 56	1 56	3 5	21 18	0 43	21 42	1 11	16 26	0 40	22 30	0 53	15 49	7 9	20 39	20 49	5 29	16 11	2 38			
M29	15 34	23 28	4 43	13 7	1 13	3 43	0 53	1 57	3 6	21 20	0 43	21 42	1 10	16 25	0 40	22 30	0 53	15 49	7 9	20 39	20 50	5 32	16 11	2 38			
T 30	15 15	25 40	4 2	12 21	1 5	3 12	0 50	1 58	3 7	21 21	0 43	21 42	1 10	16 24	0 40	22 30	0 53	15 49	7 9	20 39	20 50	5 35	16 11	2 39			
W31	14s56	26n22	3n 9	11s34	0s56	2s40	0s48	1s59	3n 8	21s22	0n43	21n42	1s10	16s22	0s40	22n30	0s52	15n50	7s 9	20s39	20s51	5s38	16s11	2n39			

Julian Day Number = 2237521.5, Delta T = 07m31s

Ecliptic obliquity = 23°30'59", Nutation = 0°00'16", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°33'56", Lahiri = 15°40'57" Julian Calendar 1 Jan. 1414 == Greg. Calendar 10 Jan. 1414

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

FEBRUARY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	9 17 21	20°46'21	4°58' 8	4°31' 3	26°21' 21	12°20' 20	10°30' 30	16°R52	17°14' 14	6°R 8	17°R38	27°56' 56	26°50' 50	3°24' 24	23°46' 46	T 1
F 2	9 21 18	21°46'51	16°55' 5	5°48' 27	27°33' 12	12°23' 23	10°38' 38	16°II52	17°18' 18	6°57' 7	17°II38	27°57' 57	26°47' 47	3°31' 31	23°49' 49	F 2
S 3	9 25 14	22°47'18	29°29' 7	7°30' 28	28°45' 12	12°25' 25	10°46' 46	16°51' 51	17°21' 21	6°6' 6	17°38' 38	27°R57' 57	26°43' 43	3°38' 38	23°51' 51	S 3
S 4	9 29 11	23°47'44	11°53' 9	9°11' 29	29°58' 12	12°27' 27	10°54' 54	16°51' 51	17°25' 25	6°5' 5	17°37' 37	27°57' 57	26°40' 40	3°44' 44	23°53' 53	S 4
M 5	9 33 7	24°48'08	24°8' 8	10°48' 10	1°10' 12	12°28' 28	11°2' 2	16°50' 50	17°28' 28	6°4' 4	17°37' 37	27°54' 54	26°37' 37	3°51' 51	23°56' 56	M 5
T 6	9 37 4	25°48'30	6°15' 12	12°21' 22	2°22' 12	12°R28' 28	11°10' 10	16°50' 50	17°32' 32	6°3' 3	17°36' 36	27°51' 51	26°34' 34	3°58' 58	23°58' 58	T 6
W 7	9 41 0	26°48'51	18°15' 13	13°51' 33	3°34' 12	12°27' 27	11°17' 17	16°50' 50	17°35' 35	6°2' 2	17°36' 36	27°46' 46	26°31' 31	4°5' 5	24°0' 0	W 7
T 8	9 44 57	27°49'10	0°10' 15	15°16' 44	4°46' 12	12°26' 26	11°24' 24	16°D50' 50	17°38' 38	6°1' 1	17°36' 36	27°41' 41	26°27' 27	4°11' 11	24°2' 2	T 8
F 9	9 48 54	28°49'27	12°2' 16	16°35' 55	5°58' 12	12°24' 24	11°32' 32	16°50' 50	17°42' 42	6°0' 0	17°36' 36	27°35' 35	26°24' 24	4°18' 18	24°4' 4	F 9
S 10	9 52 50	29°49'43	23°53' 17	17°48' 7	7°10' 12	12°21' 21	11°39' 39	16°50' 50	17°45' 45	6°0' 0	17°35' 35	27°30' 30	26°21' 21	4°25' 25	24°5' 5	S 10
S 11	9 56 47	0°49'57	5°48' 18	18°55' 8	8°22' 12	12°18' 18	11°46' 46	16°50' 50	17°49' 49	5°59' 59	17°35' 35	27°26' 26	26°18' 18	4°31' 31	24°7' 7	S 11
M12	10 0 43	1°50'10	17°49' 19	19°55' 9	9°33' 12	12°13' 13	11°52' 52	16°50' 50	17°52' 52	5°58' 58	17°35' 35	27°23' 23	26°15' 15	4°38' 38	24°9' 9	M12
T 13	10 4 40	2°50'21	0°2' 20	20°47' 10	10°45' 12	12°8' 8	11°59' 59	16°51' 51	17°56' 56	5°57' 57	17°35' 35	27°D22' 22	26°12' 12	4°45' 45	24°10' 10	T 13
W14	10 8 36	3°50'31	12°30' 21	21°30' 11	11°56' 12	12°6' 6	16°52' 52	17°59' 59	5°56' 56	17°34' 34	27°22' 22	26°8' 8	4°52' 52	24°11' 11	W14	
T 15	10 12 33	4°50'39	25°19' 22	22°5' 13	13°8' 11	11°56' 56	12°12' 12	16°52' 52	18°2' 2	5°56' 56	17°34' 34	27°23' 23	26°5' 5	4°58' 58	24°13' 13	T 15
F 16	10 16 29	5°50'45	8°32' 22	22°32' 14	14°19' 11	11°48' 48	12°18' 18	16°53' 53	18°6' 6	5°55' 55	17°34' 34	27°25' 25	26°2' 2	5°5' 5	24°14' 14	F 16
S 17	10 20 26	6°50'50	22°12' 22	22°49' 15	15°30' 11	11°40' 40	12°24' 24	16°54' 54	18°9' 9	5°54' 54	17°34' 34	27°R26' 26	25°59' 59	5°12' 12	24°15' 15	S 17
S 18	10 24 23	7°50'53	6°19' 22	22°R57' 16	16°41' 11	11°31' 31	12°30' 30	16°55' 55	18°12' 12	5°54' 54	17°34' 34	27°26' 26	25°56' 56	5°18' 18	24°16' 16	S 18
M19	10 28 19	8°50'55	20°53' 22	22°55' 17	17°52' 11	11°21' 21	12°36' 36	16°56' 56	18°16' 16	5°53' 53	17°34' 34	27°24' 24	25°53' 53	5°25' 25	24°16' 16	M19
T 20	10 32 16	9°50'54	5°48' 22	22°45' 19	19°3' 11	11°10' 10	12°41' 41	16°58' 58	18°19' 19	5°53' 53	17°34' 34	27°20' 20	25°49' 49	5°32' 32	24°17' 17	T 20
W21	10 36 12	10°50'52	20°56' 22	22°26' 20	20°14' 10	10°59' 59	12°47' 47	16°59' 59	18°22' 22	5°52' 52	17°34' 34	27°14' 14	25°46' 46	5°39' 39	24°18' 18	W21
T 22	10 40 9	11°50'47	6°7' 22	22°0' 21	21°24' 10	10°47' 47	12°52' 52	17°1' 1	18°25' 25	5°51' 51	17°D34' 34	27°7' 7	25°43' 43	5°45' 45	24°18' 18	T 22
F 23	10 44 5	12°50'40	21°11' 21	21°26' 22	22°35' 10	10°34' 34	12°57' 57	17°2' 2	18°29' 29	5°51' 51	17°34' 34	27°0' 0	25°40' 40	5°52' 52	24°18' 18	F 23
S 24	10 48 2	13°50'32	5°59' 20	20°45' 23	23°45' 10	10°20' 20	13°2' 2	17°4' 4	18°32' 32	5°51' 51	17°34' 34	26°54' 54	25°37' 37	5°59' 59	24°19' 19	S 24
S 25	10 51 58	14°50'21	20°24' 19	19°59' 24	24°55' 10	10°6' 6	13°7' 7	17°6' 6	18°35' 35	5°50' 50	17°34' 34	26°49' 49	25°33' 33	6°5' 5	24°19' 19	S 25
M26	10 55 55	15°50'07	4°12' 19	19°9' 26	26°5' 9	9°51' 51	13°11' 11	17°8' 8	18°38' 38	5°50' 50	17°34' 34	26°47' 47	25°30' 30	6°12' 12	24°R19' 19	M26
T 27	10 59 51	16°49'52	17°59' 18	18°15' 27	27°15' 9	9°35' 35	13°16' 16	17°10' 10	18°42' 42	5°49' 49	17°34' 34	26°D46' 46	25°27' 27	6°19' 19	24°19' 19	T 27
W28	11 3 48	17°49'34	1°59' 17	17°19' 28	28°Y25' 9	9°19' 19	13°20' 20	17°II12' 12	18°44' 44	5°49' 49	17°II34' 34	26°347' 47	25°324' 32	6°26' 26	24°M19' 19	W28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	14s37	25n35	2n 8	10s46	0s46	2s 9	0s45	1s59	3n 9	21s23	0n43	21n43	1s10	16s21	0s40	22n30	0s52	15n50	7s 8	20s39	20s52	5s41	16s12	2n40			
F 2	14 17	23 27	1 0	9 58	0 35	1 37	0 42	2 0	3 10	21 24	0 43	21 43	1 10	16 20	0 40	22 30	0 52	15 50	7 8	20 38	20 52	5 44	16 12	2 40			
S 3	13 58	20 11	0s 8	9 10	0 24	1 6	0 39	2 0	3 11	21 25	0 43	21 43	1 9	16 19	0 40	22 30	0 52	15 50	7 8	20 38	20 53	5 47	16 12	2 41			
S 4	13 38	16 4	1 16	8 21	0 13	0 34	0 36	2 0	3 12	21 27	0 43	21 43	1 9	16 18	0 40	22 30	0 52	15 50	7 8	20 38	20 53	5 50	16 12	2 41			
M 5	13 18	11 20	2 19	7 33	0 0	0 2	0 33	1 59	3 13	21 28	0 43	21 43	1 9	16 17	0 40	22 30	0 52	15 50	7 8	20 39	20 54	5 53	16 12	2 42			
T 6	12 57	6 14	3 15	6 45	0n13	0n29	0 30	1 58	3 13	21 29	0 43	21 43	1 9	16 16	0 40	22 30	0 52	15 51	7 7	20 40	20 55	5 56	16 12	2 43			
W 7	12 37	0 58	4 1	5 58	0 26	1 1	0 27	1 57	3 14	21 30	0 43	21 44	1 8	16 15	0 40	22 31	0 52	15 51	7 7	20 41	20 55	5 59	16 12	2 43			
T 8	12 16	4s18	4 37	5 13	0 40	1 33	0 23	1 56	3 15	21 31	0 43	21 44	1 8	16 14	0 40	22 31	0 52	15 51	7 7	20 42	20 56	6 2	16 12	2 44			
F 9	11 55	9 22	5 0	4 29	0 54	2 4	0 20	1 55	3 16	21 32	0 43	21 44	1 8	16 13	0 40	22 31	0 52	15 51	7 7	20 43	20 56	6 5	16 12	2 44			
S 10	11 34	14 7	5 11	3 47	1 9	2 36	0 17	1 53	3 17	21 33	0 43	21 44	1 8	16 12	0 40	22 31	0 52	15 51	7 7	20 44	20 57	6 8	16 12	2 45			
S 11	11 13	18 20	5 8	3 7	1 23	3 7	0 13	1 51	3 17	21 33	0 43	21 45	1 8	16 11	0 40	22 31	0 52	15 51	7 6	20 45	20 58	6 11	16 11	2 45			
M12	10 51	21 52	4 52	2 30	1 38	3 39	0 10	1 48	3 18	21 34	0 43	21 45	1 7	16 10	0 40	22 31	0 52	15 52	7 6	20 45	20 58	6 14	16 11	2 46			
T 13	10 30	24 30	4 23	1 56	1 53	4 10	0 6	1 46	3 19	21 35	0 43	21 45	1 7	16 9	0 40	22 31	0 52	15 52	7 6	20 45	20 59	6 17	16 11	2 46			
W14	10 8	26 0	3 40	1 26	2 7	4 41	0 3	1 43	3 19	21 36	0 43	21 45	1 7	16 8	0 40	22 31	0 52	15 52	7 6	20 45	20 59	6 20	16 11	2 47			
T 15	9 46	26 12	2 46	0 59	2 21	5 13	0n 1	1 40	3 20	21 37	0 43	21 46	1 7	16 7	0 40	22 31	0 52	15 52	7 6	20 45	21 0	6 23	16 11	2 48			
F 16	9 24	24 55	1 41	0 37	2 34	5 44	0 4	1 36	3 21	21 38	0 43	21 46	1 6	16 6	0 40	22 31	0 52	15 52	7 5	20 45	21 1	6 26	16 10	2 48			
S 17	9 2	22 9	0 28	0 18	2 47	6 15	0 8	1 33	3 21	21 38	0 43	21 46	1 6	16 5	0 40	22 31	0 52	15 53	7 5	20 44	21 1	6 29	16 10	2 49			
S 18	8 39	17 59	0n48	0 4	2 59	6 45	0 12	1 29	3 21	21 39	0 43	21 47	1 6	16 4	0 40	22 31	0 52	15 53	7 5	20 45	21 2	6 32	16 10	2 49			
M19	8 17	12 38	2 4	0n 5	3 9	7 16	0 15	1 24	3 22	21 40	0 43	21 47	1 6	16 3	0 40	22 31	0 52	15 53	7 5	20 45	21 2	6 35	16 9	2 50			
T 20	7 54	6 26	3 13	0 9	3 19	7 46	0 19	1 20	3 22	21 40	0 43	21 47	1 6	16 2	0 40	22 31	0 52	15 53	7 5	20 46	21 3	6 38	16 9	2 50			
W21	7 31	0n12	4 9	0 9	3 26	8 17	0 23	1 15	3 23	21 41	0 44	21 48	1 5	16 1	0 40	22 31	0 52	15 53	7 4	20 47	21 4	6 41	16 9	2 51			
T 22	7 8	6 50	4 48	0 4	3 32	8 47	0 27	1 10	3 23	21 42	0 44	21 48	1 5	16 0	0 40	22 32	0 52	15 54	7 4	20 48	21 4	6 44	16 8	2 51			
F 23	6 46	13 1	5 7	0s 5	3 37	9 17	0 30	1 5	3 23	21 42	0 44	21 48	1 5	15 59	0 40	22 32	0 52	15 54	7 4	20 50	21 5	6 47	16 8	2 52			
S 24	6 23	18 20	5 4	0 19	3 39	9 47	0 34	1 0	3 23	21 43	0 44	21 49	1 5	15 58	0 40	22 32	0 52	15 54	7 4	20 51	21 5	6 50	16 7	2 53			
S 25	5 59	22 26	4 43	0 37	3 40	10 16	0 38	0 54	3 23	21 43	0 44	21 49	1 5	15 57	0 40	22 32	0 52	15 54	7 4	20 52	21 6	6 53	16 7	2 53			
M26	5 36	25 6	4 4	0 58	3 38	10 45	0 42	0 48	3 23	21 44	0 44	21 49	1 4	15 56	0 41	22 32	0 52	15 54	7 3	20 52	21 6	6 56	16 6	2 54			
T 27	5 13	26 11	3 14	1 22	3 35	11 15	0 46	0 42	3 23	21 44	0 44	21 50	1 4	15 55	0 41	22 32	0 52	15 55	7 3	20 52	21 7	6 59	16 6	2 54			
W28	4s50	25n44	2n14	1s49	3n30	11n43	0n50	0s36	3n23	21s45	0n44	21n50	1s 4	15s54	0s41	22n32	0s51	15n55	7s 3	20s52	21s 8	7s 1	16s 5	2n55			

ASTRODIENST EPHEMERIS for the year 1414  
geocentric

MARCH 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	11 7 45	18°49'14	13°59	16°R23	29°Y35	9°R 2	13°♂24	17°II14	18°♂48	5°R49	17°II34	26°♂48	25°♂21	6°♂32	24°R18	T 1
F 2	11 11 41	19°48'51	26°32	15°♂27	0°♂44	8°♂44	13°28	17°17	18°51	5°♂49	17°35	26°R49	25°18	6°39	24°♂18	F 2
S 3	11 15 38	20°48'27	8°♂52	14°33	1°54	8°26	13°32	17°19	18°54	5°48	17°35	26°48	25°14	6°46	24°17	S 3
S 4	11 19 34	21°48'00	21° 2	13°41	3° 3	8° 7	13°35	17°22	18°57	5°48	17°35	26°45	25°11	6°52	24°17	S 4
M 5	11 23 31	22°47'30	3°♂ 5	12°53	4°12	7°48	13°39	17°24	19° 0	5°48	17°35	26°39	25° 8	6°59	24°16	M 5
T 6	11 27 27	23°46'59	15° 2	12°10	5°21	7°28	13°42	17°27	19° 3	5°48	17°36	26°31	25° 5	7° 6	24°15	T 6
W 7	11 31 24	24°46'25	26°57	11°31	6°30	7° 8	13°45	17°30	19° 6	5°48	17°36	26°21	25° 2	7°13	24°14	W 7
T 8	11 35 20	25°45'50	8°♂50	10°57	7°39	6°47	13°48	17°33	19° 9	5°48	17°36	26°10	24°58	7°19	24°13	T 8
F 9	11 39 17	26°45'12	20°42	10°29	8°47	6°26	13°50	17°36	19°12	5°D48	17°36	25°58	24°55	7°26	24°12	F 9
S 10	11 43 14	27°44'32	2°♂36	10° 7	9°56	6° 4	13°53	17°39	19°15	5°48	17°37	25°47	24°52	7°33	24°11	S 10
S 11	11 47 10	28°43'51	14°33	9°51	11° 4	5°42	13°55	17°43	19°18	5°48	17°37	25°37	24°49	7°39	24°10	S 11
M12	11 51 7	29°43'08	26°36	9°40	12°12	5°20	13°57	17°46	19°21	5°48	17°38	25°30	24°46	7°46	24° 8	M12
T 13	11 55 3	0°Y42'23	8°♂48	9°D36	13°20	4°57	13°59	17°49	19°23	5°48	17°38	25°25	24°43	7°53	24° 7	T 13
W14	11 59 0	1°41'36	21°14	9°37	14°27	4°35	14° 1	17°53	19°26	5°48	17°39	25°23	24°39	8° 0	24° 5	W14
T 15	12 2 56	2°40'47	3°♂58	9°44	15°35	4°12	14° 2	17°57	19°29	5°49	17°39	25°D22	24°36	8° 6	24° 4	T 15
F 16	12 6 53	3°39'57	17° 3	9°56	16°42	3°49	14° 4	18° 1	19°32	5°49	17°39	25°22	24°33	8°13	24° 2	F 16
S 17	12 10 49	4°39'04	0°♂35	10°13	17°49	3°26	14° 5	18° 4	19°34	5°49	17°40	25°R22	24°30	8°20	24° 0	S 17
S 18	12 14 46	5°38'10	14°34	10°35	18°56	3° 2	14° 6	18° 8	19°37	5°49	17°41	25°21	24°27	8°26	23°58	S 18
M19	12 18 43	6°37'14	29° 2	11° 1	20° 3	2°39	14° 7	18°12	19°40	5°50	17°41	25°17	24°24	8°33	23°56	M19
T 20	12 22 39	7°36'16	13°♂55	11°32	21° 9	2°16	14° 8	18°17	19°42	5°50	17°42	25°11	24°20	8°40	23°54	T 20
W21	12 26 36	8°35'17	29° 6	12° 7	22°15	1°53	14° 8	18°21	19°45	5°51	17°42	25° 2	24°17	8°47	23°51	W21
T 22	12 30 32	9°34'15	14°Y26	12°47	23°22	1°30	14° 8	18°25	19°47	5°51	17°43	24°52	24°14	8°53	23°49	T 22
F 23	12 34 29	10°33'11	29°43	13°29	24°27	1° 7	14°R 8	18°29	19°50	5°51	17°43	24°41	24°11	9° 0	23°47	F 23
S 24	12 38 25	11°32'05	14°♂46	14°16	25°33	0°45	14° 8	18°34	19°52	5°52	17°44	24°32	24° 8	9° 7	23°44	S 24
S 25	12 42 22	12°30'57	29°26	15° 6	26°39	0°23	14° 8	18°39	19°55	5°52	17°45	24°24	24° 4	9°13	23°41	S 25
M26	12 46 18	13°29'47	13°II38	15°59	27°44	0° 1	14° 7	18°43	19°57	5°53	17°46	24°18	24° 1	9°20	23°39	M26
T 27	12 50 15	14°28'34	27°20	16°55	28°49	29°♂39	14° 7	18°48	20° 0	5°54	17°46	24°16	23°58	9°27	23°36	T 27
W28	12 54 12	15°27'19	10°♂34	17°54	29°53	29°18	14° 6	18°53	20° 2	5°54	17°47	24°15	23°55	9°34	23°33	W28
T 29	12 58 8	16°26'02	23°24	18°56	0°II58	28°57	14° 5	18°58	20° 4	5°55	17°48	24°15	23°52	9°40	23°30	T 29
F 30	13 2 5	17°24'42	5°♂53	20° 1	2° 2	28°37	14° 3	19° 3	20° 6	5°56	17°49	24°14	23°49	9°47	23°27	F 30
S 31	13 6 1	18°Y23'21	18°♂ 7	21°♂ 8	3°II 6	28°♂17	14°♂ 2	19°II 8	20°♂ 9	5°♂56	17°II49	24°♂13	23°♂45	9°♂54	23°♂24	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	4s26 23n55	1n 8	2s17 3n22	12n12 0n54	0s29 3n23	21s45 0n44	21n51 1s 4	15s53 0s41	22n32 0s51	15n55 7s 3	20s52 21s 8	7s 4 16s 4	2n55			
F 2	4 3 20 56	0 1	2 47 3 13	12 40 0 58	0 22 3 23	21 46 0 44	21 51 1 3	15 52 0 41	22 32 0 51	15 55 7 3	20 52 21 9	7 7 16 4	2 56			
S 3	3 39 17 4	1s 4	3 17 3 3	13 8 1 2	0 16 3 22	21 46 0 44	21 52 1 3	15 51 0 41	22 32 0 51	15 56 7 2	20 52 21 9	7 10 16 3	2 57			
S 4	3 16 12 32	2 6	3 48 2 51	13 36 1 6	0 9 3 22	21 47 0 44	21 52 1 3	15 50 0 41	22 32 0 51	15 56 7 2	20 52 21 10	7 13 16 2	2 57			
M 5	2 52 7 35	3 2	4 18 2 38	14 3 1 10	0 1 3 21	21 47 0 44	21 52 1 3	15 49 0 41	22 32 0 51	15 56 7 2	20 54 21 11	7 16 16 2	2 58			
T 6	2 29 2 24	3 48	4 48 2 25	14 30 1 13	0n 6 3 21	21 47 0 44	21 53 1 3	15 48 0 41	22 32 0 51	15 56 7 2	20 55 21 11	7 19 16 1	2 58			
W 7	2 5 2s50	4 25	5 16 2 10	14 57 1 17	0 13 3 20	21 48 0 44	21 53 1 2	15 47 0 41	22 32 0 51	15 56 7 1	20 57 21 12	7 22 16 0	2 59			
T 8	1 41 7 57	4 50	5 42 1 55	15 23 1 21	0 21 3 19	21 48 0 44	21 54 1 2	15 46 0 41	22 32 0 51	15 57 7 1	20 59 21 12	7 25 15 59	2 59			
F 9	1 18 12 46	5 2	6 7 1 40	15 49 1 25	0 28 3 18	21 48 0 44	21 54 1 2	15 45 0 41	22 32 0 51	15 57 7 1	21 1 21 13	7 28 15 59	3 0			
S 10	0 54 17 7	5 1	6 30 1 25	16 15 1 29	0 36 3 17	21 49 0 44	21 55 1 2	15 45 0 41	22 32 0 51	15 57 7 1	21 3 21 13	7 31 15 58	3 0			
S 11	0 30 20 49	4 47	6 50 1 9	16 40 1 33	0 44 3 16	21 49 0 44	21 55 1 2	15 44 0 41	22 32 0 51	15 57 7 1	21 5 21 14	7 34 15 57	3 1			
M12	0 7 23 40	4 20	7 8 0 54	17 5 1 37	0 52 3 15	21 49 0 44	21 56 1 1	15 43 0 41	22 32 0 51	15 58 7 0	21 7 21 15	7 37 15 56	3 2			
T 13	0n17 25 29	3 41	7 24 0 39	17 30 1 41	1 0 3 14	21 49 0 44	21 56 1 1	15 42 0 41	22 32 0 51	15 58 7 0	21 7 21 15	7 39 15 55	3 2			
W14	0 41 26 4	2 51	7 37 0 24	17 54 1 45	1 7 3 13	21 49 0 44	21 57 1 1	15 41 0 41	22 32 0 51	15 58 7 0	21 8 21 16	7 42 15 54	3 3			
T 15	1 4 25 19	1 51	7 48 0 10	18 17 1 49	1 15 3 12	21 50 0 44	21 57 1 1	15 40 0 41	22 32 0 51	15 58 7 0	21 8 21 16	7 45 15 53	3 3			
F 16	1 28 23 9	0 44	7 56 0s 4	18 41 1 53	1 31 3 10	21 50 0 44	21 58 1 1	15 39 0 41	22 32 0 51	15 59 7 0	21 8 21 17	7 48 15 52	3 4			
S 17	1 51 19 39	0n28 8 2	0 17 19 4	1 56 1 23	3 9 21 50	0 44 21 59	1 0 15 39	0 41 22 33	0 51 15 59	6 59 21 8	21 17 7 51	15 51 3 4				
S 18	2 15 14 55	1 40	8 5 0 30	19 26 2 0	1 39 3 7	21 50 0 44	21 59 1 0	15 38 0 41	22 33 0 51	15 59 6 59	21 8 21 18	7 54 15 50	3 5			
M19	2 38 9 13	2 48	8 7 0 43	19 48 2 4	1 46 3 5	21 50 0 44	22 0 1 0	15 37 0 41	22 33 0 51	15 59 6 59	21 9 21 19	7 57 15 49	3 5			
T 20	3 2 2 51	3 47	8 6 0 54	20 9 2 8	1 54 3 4	21 50 0 44	22 0 1 0	15 36 0 41	22 33 0 51	16 0 6 59	21 10 21 19	8 0 15 48	3 6			
W21	3 25 3n47	4 31	8 3 1 5	20 30 2 11	2 2 3 2	21 50 0 45	22 1 1 0	15 35 0 41	22 33 0 51	16 0 6 59	21 12 21 20	8 3 15 47	3 6			
T 22	3 48 10 15	4 56	7 57 1 16	20 51 2 15	2 9 3 0	21 50 0 45	22 1 1 0	15 35 0 41	22 33 0 51	16 0 6 58	21 13 21 20	8 5 15 46	3 7			
F 23	4 11 16 5	5 0	7 50 1 26	21 11 2 18	2 16 2 58	21 50 0 45	22 2 0 59	15 34 0 41	22 33 0 51	16 0 6 58	21 15 21 21	8 8 15 45	3 7			
S 24	4 35 20 49	4 43	7 40 1 35	21 30 2 22	2 23 2 56	21 50 0 45	22 2 0 59	15 33 0 41	22 33 0 51	16 1 6 58	21 17 21 21	8 11 15 44	3 8			
S 25	4 58 24 7	4 7	7 29 1 44	21 49 2 25	2 30 2 54	21 50 0 45	22 3 0 59	15 32 0 41	22 33 0 51	16 1 6 58	21 19 21 22	8 14 15 43	3 8			
M26	5 21 25 46	3 17	7 16 1 52	22 8 2 29	2 37 2 52	21 50 0 45	22 4 0 59	15 32 0 41	22 33 0 50	16 1 6 58	21 19 21 22	8 17 15 42	3 9			
T 27	5 43 25 47	2 17	7 1 1 59	22 26 2 32	2 44 2 49	21 50 0 45	22 4 0 59	15 31 0 41	22 33 0 50	16 1 6 58	21 20 21 23	8 20 15 41	3 9			
W28	6 6 24 17	1 12	6 44 2 6	22 43 2 36	2 50 2 47	21 50 0 45	22 5 0 58	15 30 0 41	22 33 0 50	16 2 6 57	21 20 21 24	8 23 15 39	3 10			
T 29	6 29 21 33	0 4	6 25 2 13	23 0 2 39	2 56 2 45	21 49 0 45	22 5 0 58	15 30 0 41	22 33 0 50	16 2 6 57	21 20 21 24	8 26 15 38	3 10			
F 30	6 51 17 52	1s 1	6 5 2 18	23 17 2 42	3 2 2 42	21 49 0 45	22 6 0 58	15 29 0 41	22 33 0 50	16 2 6 57	21 20 21 25	8 28 15 37	3 11			
S 31	7n14 13n30	2s 3	5s43 2s23	23n33 2n45	3n 7	2n40 21s49	0n45 22n 6	0s58 15s28	0s41 22n33	0s50 16n 2	6s57 21s20	21s25 8s31	15s36 3n11			

Julian Day Number = 2237580.5, Delta T = 07m30s

Ecliptic obliquity = 23°31'00, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'04, Lahiri = 15°41'05 Julian Calendar 1 March 1414 == Greg. Calendar 10 March 1414

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

APRIL 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	13 9 58	19°21'56	0°10'10	22°17'17	4°11'9	27°R58	14°R 0	19°11'13	20°11'11	5°55'57	17°11'50	24°R 8	23°34'42	10°11'1	23°R21	S 1
M 2	13 13 54	20°20'30	12° 6	23°29	5°13	27°14'40	13°17'58	19°18	20°13	5°58	17°51	24°3 2	23°39	10° 7	23°18'18	M 2
T 3	13 17 51	21°19'02	23°58	24°43	6°16	27°22	13°56	19°23	20°15	5°59	17°52	23°52	23°36	10°14	23°14	T 3
W 4	13 21 47	22°17'31	5°17'31	26° 0	7°18	27° 4	13°54	19°29	20°17	6° 0	17°53	23°40	23°33	10°21	23°11	W 4
T 5	13 25 44	23°15'59	17°42	27°18	8°21	26°47	13°52	19°34	20°19	6° 0	17°54	23°26	23°30	10°27	23° 8	T 5
F 6	13 29 40	24°14'25	29°37	28°39	9°23	26°31	13°49	19°40	20°21	6° 1	17°54	23°11	23°26	10°34	23° 4	F 6
S 7	13 33 37	25°12'49	11°13'36	0°17'1	10°24	26°16	13°47	19°45	20°23	6° 2	17°55	22°58	23°23	10°41	23° 1	S 7
S 8	13 37 34	26°11'11	23°40	1°26	11°26	26° 1	13°44	19°51	20°25	6° 3	17°56	22°46	23°20	10°48	22°57	S 8
M 9	13 41 30	27° 9'31	5°17'50	2°53	12°27	25°47	13°41	19°57	20°27	6° 4	17°57	22°37	23°17	10°54	22°53	M 9
T 10	13 45 27	28° 7'50	18° 9	4°21	13°27	25°34	13°37	20° 2	20°29	6° 5	17°58	22°30	23°14	11° 1	22°50	T 10
W11	13 49 23	29° 6'07	0°33'39	5°52	14°28	25°22	13°34	20° 8	20°30	6° 6	17°59	22°26	23°10	11° 8	22°46	W11
T 12	13 53 20	0°18'42	13°25	7°24	15°28	25°10	13°30	20°14	20°32	6° 8	18° 0	22°25	23° 7	11°14	22°42	T 12
F 13	13 57 16	1° 2'36	26°28	8°58	16°27	24°59	13°27	20°20	20°34	6° 9	18° 1	22°25	23° 4	11°21	22°38	F 13
S 14	14 1 13	2° 0'49	9°18'54	10°35	17°26	24°49	13°23	20°26	20°35	6°10	18° 2	22°25	23° 1	11°28	22°34	S 14
S 15	14 5 10	2°59'00	23°43	12°13	18°25	24°39	13°19	20°32	20°37	6°11	18° 3	22°24	22°58	11°35	22°30	S 15
M16	14 9 6	3°57'09	7°18'59	13°52	19°23	24°31	13°14	20°39	20°38	6°12	18° 4	22°20	22°55	11°41	22°26	M16
T 17	14 13 3	4°55'17	22°39	15°34	20°21	24°23	13°10	20°45	20°40	6°13	18° 5	22°14	22°51	11°48	22°22	T 17
W18	14 16 59	5°53'24	7°18'38	17°18	21°18	24°16	13° 5	20°51	20°41	6°15	18° 7	22° 6	22°48	11°55	22°18	W18
T 19	14 20 56	6°51'29	22°48	19° 3	22°15	24° 9	13° 1	20°57	20°43	6°16	18° 8	21°56	22°45	12° 1	22°14	T 19
F 20	14 24 52	7°49'32	8°18'0	20°51	23°12	24° 4	12°56	21° 4	20°44	6°17	18° 9	21°45	22°42	12° 8	22°10	F 20
S 21	14 28 49	8°47'34	23° 3	22°40	24° 8	23°59	12°51	21°10	20°45	6°19	18°10	21°35	22°39	12°15	22° 5	S 21
S 22	14 32 45	9°45'34	7°11'46	24°31	25° 3	23°56	12°46	21°17	20°47	6°20	18°11	21°28	22°35	12°22	22° 1	S 22
M23	14 36 42	10°43'33	22° 4	26°24	25°58	23°53	12°40	21°23	20°48	6°21	18°12	21°22	22°32	12°28	21°57	M23
T 24	14 40 39	11°41'30	5°53'25	28°19	26°52	23°50	12°35	21°30	20°49	6°23	18°13	21°19	22°29	12°35	21°53	T 24
W25	14 44 35	12°39'25	19°14	0°18'15	27°46	23°49	12°29	21°37	20°50	6°24	18°15	21°D18	22°26	12°42	21°48	W25
T 26	14 48 32	13°37'18	2°18'8	2°14	28°39	23°D48	12°23	21°43	20°51	6°26	18°16	21°18	22°23	12°49	21°44	T 26
F 27	14 52 28	14°35'09	14°40	4°14	29°31	23°48	12°18	21°50	20°52	6°27	18°17	21°R19	22°20	12°55	21°40	F 27
S 28	14 56 25	15°32'58	26°54	6°16	0°52'3	23°49	12°12	21°57	20°53	6°29	18°18	21°18	22°16	13° 2	21°35	S 28
S 29	15 0 21	16°30'46	8°17'56	8°20	1°14	23°51	12° 6	22° 4	20°54	6°30	18°19	21°16	22°13	13° 9	21°31	S 29
M30	15 4 18	17°28'31	20°17'51	10°18'25	2°5 5	23°17'53	11°17'59	22°11'1	20°55	6°32	18°21	21°11	22°10	13°15	21°27	M30

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	7n36	8n41	2s57	5s20	2s28	23n48	2n48	3n13	2n37	21s49	0n45	22n 7	0s58	15s27	0s41	22n33
M 2	7 58	3 36	3 44	4 55	2 32	24 3	2 51	3 18	2 35	21 49	0 45	22 8	0 58	15 27	0 41	22 33
T 3	8 20	1s35	4 20	4 29	2 35	24 17	2 54	3 23	2 32	21 48	0 45	22 8	0 57	15 26	0 41	22 33
W 4	8 42	6 41	4 45	4 1	2 38	24 30	2 57	3 27	2 30	21 48	0 45	22 9	0 57	15 26	0 41	22 33
T 5	9 4	11 33	4 58	3 31	2 40	24 43	3 0	3 32	2 27	21 48	0 45	22 9	0 57	15 25	0 42	22 33
F 6	9 26	16 0	4 57	3 1	2 42	24 56	3 2	3 36	2 24	21 48	0 45	22 10	0 57	15 24	0 42	22 33
S 7	9 47	19 51	4 44	2 29	2 43	25 8	3 5	3 39	2 22	21 47	0 45	22 11	0 57	15 24	0 42	22 33
S 8	10 8	22 54	4 18	1 55	2 43	25 19	3 7	3 43	2 19	21 47	0 45	22 11	0 57	15 23	0 42	22 33
M 9	10 30	24 57	3 39	1 21	2 43	25 30	3 10	3 46	2 16	21 46	0 45	22 12	0 56	15 23	0 42	22 33
T 10	10 51	25 49	2 50	0 45	2 42	25 40	3 12	3 49	2 14	21 46	0 45	22 12	0 56	15 22	0 42	22 33
W11	11 11	25 23	1 52	0 8	2 41	25 49	3 14	3 51	2 11	21 46	0 45	22 13	0 56	15 22	0 42	22 33
T 12	11 32	23 38	0 47	0n30	2 39	25 58	3 16	3 53	2 8	21 45	0 45	22 14	0 56	15 21	0 42	22 33
F 13	11 52	20 35	0n21	1 10	2 37	26 7	3 18	3 55	2 5	21 45	0 45	22 14	0 56	15 21	0 42	22 33
S 14	12 13	16 22	1 31	1 50	2 34	26 14	3 20	3 57	2 3	21 44	0 45	22 15	0 56	15 20	0 42	22 33
S 15	12 33	11 11	2 37	2 32	2 31	26 22	3 22	3 58	2 0	21 44	0 45	22 15	0 55	15 20	0 42	22 33
M16	12 53	5 16	3 36	3 14	2 27	26 28	3 23	3 59	1 57	21 43	0 45	22 16	0 55	15 19	0 42	22 33
T 17	13 12	1n 5	4 22	3 57	2 22	26 34	3 25	3 59	1 55	21 43	0 45	22 17	0 55	15 19	0 42	22 33
W18	13 32	7 30	4 42	4 42	2 17	26 40	3 26	4 0	1 52	21 42	0 45	22 17	0 55	15 18	0 42	22 33
T 19	13 51	13 33	5 1	5 27	2 12	26 44	3 27	4 0	1 49	21 42	0 45	22 18	0 55	15 18	0 42	22 33
F 20	14 10	18 47	4 49	6 13	2 6	26 49	3 29	3 59	1 46	21 41	0 45	22 18	0 55	15 17	0 42	22 32
S 21	14 29	22 45	4 17	7 0	1 59	26 52	3 29	3 59	1 44	21 40	0 45	22 19	0 55	15 17	0 42	22 32
S 22	14 47	25 7	3 29	7 47	1 53	26 56	3 30	3 58	1 41	21 40	0 45	22 19	0 54	15 17	0 42	22 32
M23	15 5	25 45	2 28	8 35	1 45	26 58	3 31	3 57	1 38	21 39	0 45	22 20	0 54	15 16	0 42	22 32
T 24	15 23	24 44	1 21	9 24	1 37	27 0	3 31	3 55	1 36	21 38	0 45	22 21	0 54	15 16	0 42	22 32
W25	15 41	22 19	0 11	10 13	1 29	27 2	3 32	3 53	1 33	21 38	0 45	22 21	0 54	15 16	0 42	22 32
T 26	15 59	18 49	0s57	11 2	1 20	27 2	3 32	3 51	1 31	21 37	0 44	22 22	0 54	15 15	0 42	22 32
F 27	16 16	14 34	2 1	11 51	1 11	27 3	3 32	3 49	1 28	21 36	0 44	22 22	0 54	15 15	0 42	22 32
S 28	16 33	9 48	2 57	12 41	1 2	27 3	3 32	3 46	1 25	21 36	0 44	22 23	0 54	15 15	0 42	22 32
S 29	16 50	4 46	3 45	13 31	0 52	27 2	3 31	3 43	1 23	21 35	0 44	22 23	0 53	15 15	0 42	22 32
M30	17n 6	0s23	4s22	14n20	0s42	27n 1	3n31	3n40	1n20	21s34	0n44	22n24	0s53	15s14	0s42	22n32

Julian Day Number = 2237611.5, Delta T = 07m30s

Ecliptic obliquity = 23°31'00, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'08, Lahiri = 15°41'09 Julian Calendar 1 Apr. 1414 == Greg. Calendar 10 Apr. 1414

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

MAY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	15 8 14	18°26'16	2°43	12°32	2°54	23°56	11°R53	22°18	20°56	6°34	18°22	21°R 4	22°7	13°22	21°R22	T 1
W 2	15 12 11	19°23'58	14°34	14°40	3°43	24° 0	11°46	22°25	20°57	6°35	18°23	20°54	22° 4	13°29	21°18	W 2
T 3	15 16 7	20°21'39	26°29	16°49	4°31	24° 5	11°40	22°32	20°58	6°37	18°24	20°43	22° 1	13°36	21°13	T 3
F 4	15 20 4	21°19'19	8°29	18°59	5°19	24°10	11°33	22°39	20°58	6°39	18°26	20°32	21°57	13°42	21° 9	F 4
S 5	15 24 1	22°16'58	20°35	21°10	6° 5	24°16	11°27	22°46	20°59	6°40	18°27	20°22	21°54	13°49	21° 5	S 5
S 6	15 27 57	23°14'35	2°49	23°21	6°51	24°23	11°20	22°53	20°59	6°42	18°28	20°12	21°51	13°56	21° 0	S 6
M 7	15 31 54	24°12'11	15°12	25°33	7°35	24°30	11°13	23° 0	21° 0	6°44	18°30	20° 5	21°48	14° 2	20°56	M 7
T 8	15 35 50	25° 9'45	27°44	27°45	8°19	24°38	11° 6	23° 8	21° 1	6°45	18°31	20° 1	21°45	14° 9	20°51	T 8
W 9	15 39 47	26° 7'19	10°38	29°56	9° 2	24°47	10°59	23°15	21° 1	6°47	18°32	19°58	21°41	14°16	20°47	W 9
T 10	15 43 43	27° 4'52	23°24	2°11	9°44	24°56	10°52	23°22	21° 1	6°49	18°34	19°D58	21°38	14°23	20°43	T 10
F 11	15 47 40	28° 2'24	6°35	4°17	10°24	25° 6	10°44	23°29	21° 2	6°51	18°35	19°59	21°35	14°29	20°38	F 11
S 12	15 51 37	28°59'54	20° 3	6°26	11° 4	25°17	10°37	23°37	21° 2	6°53	18°36	20° 0	21°32	14°36	20°34	S 12
S 13	15 55 33	29°57'24	3°50	8°33	11°43	25°28	10°30	23°44	21° 2	6°54	18°38	20°R 0	21°29	14°43	20°30	S 13
M14	15 59 30	0°15'54	17°56	10°39	12°20	25°39	10°22	23°52	21° 3	6°56	18°39	19°59	21°26	14°50	20°25	M14
T 15	16 3 26	1°52'22	2°21	12°43	12°56	25°52	10°15	23°59	21° 3	6°58	18°40	19°55	21°22	14°56	20°21	T 15
W16	16 7 23	2°49'50	17° 0	14°46	13°31	26° 5	10° 7	24° 7	21° 3	7° 0	18°42	19°50	21°19	15° 3	20°17	W16
T 17	16 11 19	3°47'17	1°50	16°46	14° 5	26°18	10° 0	24°14	21° 3	7° 2	18°43	19°44	21°16	15°10	20°13	T 17
F 18	16 15 16	4°44'43	16°42	18°44	14°37	26°32	9°52	24°22	21°R 3	7° 4	18°45	19°37	21°13	15°16	20° 9	F 18
S 19	16 19 12	5°42'08	1°28	20°40	15° 8	26°47	9°45	24°29	21° 3	7° 6	18°46	19°31	21°10	15°23	20° 4	S 19
S 20	16 23 9	6°39'33	16° 0	22°33	15°37	27° 2	9°37	24°37	21° 3	7° 8	18°47	19°26	21° 7	15°30	20° 0	S 20
M21	16 27 6	7°36'57	0°11	24°24	16° 5	27°18	9°29	24°44	21° 3	7°10	18°49	19°22	21° 3	15°37	19°56	M21
T 22	16 31 2	8°34'20	13°59	26°13	16°31	27°34	9°22	24°52	21° 2	7°12	18°50	19°D21	21° 0	15°43	19°52	T 22
W23	16 34 59	9°31'41	27°20	27°59	16°56	27°51	9°14	25° 0	21° 2	7°14	18°52	19°21	20°57	15°50	19°48	W23
T 24	16 38 55	10°29'02	10°18	29°42	17°19	28° 8	9° 6	25° 7	21° 2	7°16	18°53	19°22	20°54	15°57	19°44	T 24
F 25	16 42 52	11°26'22	22°53	1°23	17°40	28°26	8°59	25°15	21° 2	7°18	18°54	19°24	20°51	16° 4	19°40	F 25
S 26	16 46 48	12°23'40	5°11	3° 1	17°59	28°44	8°51	25°23	21° 1	7°20	18°56	19°25	20°47	16°10	19°37	S 26
S 27	16 50 45	13°20'58	17°16	4°36	18°17	29° 2	8°43	25°31	21° 1	7°22	18°57	19°R25	20°44	16°17	19°33	S 27
M28	16 54 41	14°18'14	29°12	6° 9	18°32	29°22	8°36	25°38	21° 0	7°24	18°59	19°24	20°41	16°24	19°29	M28
T 29	16 58 38	15°15'30	11°5	7°40	18°46	29°41	8°28	25°46	21° 0	7°26	19° 0	19°21	20°38	16°30	19°25	T 29
W30	17 2 35	16°12'45	22°58	9° 7	18°57	0°1	8°21	25°54	20°59	7°28	19° 2	19°17	20°35	16°37	19°22	W30
T 31	17 6 31	17°11'59	4°56	10°32	19°57	0°22	8°13	26°11	20°59	7°30	19°11	19°32	20°32	16°44	19°18	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	17n22	5s29	4s48	15n 9	0s32	26n59	3n30	3n36	1n18	21s33	0n44	22n24	0s53	15s14	0s42	22n32
W 2	17 38	10 23	5 1	15 57	0 21	26 57	3 29	3 32	1 15	21 32	0 44	22 25	0 53	15 14	0 43	22 32
T 3	17 54	14 56	5 2	16 45	0 11	26 54	3 28	3 28	1 13	21 32	0 44	22 26	0 53	15 14	0 43	22 32
F 4	18 9	18 55	4 49	17 31	0n 0	26 51	3 27	3 24	1 11	21 31	0 44	22 26	0 53	15 13	0 43	22 32
S 5	18 24	22 10	4 23	18 17	0 11	26 48	3 25	3 20	1 8	21 30	0 44	22 27	0 53	15 13	0 43	22 32
S 6	18 39	24 27	3 44	19 1	0 21	26 44	3 24	3 15	1 6	21 29	0 44	22 27	0 52	15 13	0 43	22 32
M 7	18 53	25 35	2 55	19 43	0 31	26 39	3 22	3 10	1 4	21 28	0 44	22 28	0 52	15 13	0 43	22 32
T 8	19 7	25 26	1 56	20 24	0 41	26 34	3 19	3 4	1 1	21 27	0 44	22 28	0 52	15 13	0 43	22 32
W 9	19 21	23 57	0 51	21 2	0 51	26 29	3 17	2 59	0 59	21 26	0 44	22 29	0 52	15 13	0 43	22 32
T 10	19 34	21 11	0n18	21 38	1 1	26 23	3 14	2 53	0 57	21 26	0 44	22 29	0 52	15 13	0 43	22 32
F 11	19 47	17 16	1 28	22 12	1 10	26 17	3 11	2 47	0 54	21 25	0 44	22 30	0 52	15 13	0 43	22 31
S 12	20 0	12 24	2 35	22 44	1 18	26 11	3 8	2 41	0 52	21 24	0 43	22 30	0 52	15 13	0 43	22 31
S 13	20 12	6 49	3 34	23 13	1 26	26 4	3 5	2 35	0 50	21 23	0 43	22 31	0 52	15 12	0 43	22 31
M14	20 24	0 47	4 21	23 39	1 33	25 57	3 1	2 28	0 48	21 22	0 43	22 31	0 51	15 12	0 43	22 31
T 15	20 36	5n25	4 53	24 3	1 40	25 49	2 57	2 21	0 46	21 21	0 43	22 31	0 51	15 12	0 43	22 31
W16	20 48	11 25	5 7	24 23	1 46	25 41	2 53	2 14	0 44	21 20	0 43	22 32	0 51	15 12	0 43	22 31
T 17	20 59	16 51	5 1	24 42	1 51	25 33	2 48	2 7	0 42	21 19	0 43	22 32	0 51	15 12	0 43	22 31
F 18	21 9	21 15	4 34	24 57	1 55	25 25	2 43	1 59	0 40	21 18	0 43	22 33	0 51	15 13	0 43	22 31
S 19	21 20	24 16	3 50	25 10	1 59	25 16	2 38	1 52	0 38	21 17	0 43	22 33	0 51	15 13	0 43	22 31
S 20	21 29	25 36	2 50	25 20	2 2	25 8	2 33	1 44	0 36	21 16	0 43	22 34	0 51	15 13	0 43	22 31
M21	21 39	25 13	1 42	25 28	2 4	24 58	2 27	1 36	0 34	21 15	0 43	22 34	0 51	15 13	0 43	22 31
T 22	21 48	23 16	0 29	25 34	2 6	24 49	2 21	1 27	0 32	21 14	0 42	22 34	0 51	15 13	0 43	22 31
W23	21 57	20 3	0s43	25 37	2 7	24 39	2 14	1 19	0 30	21 13	0 42	22 35	0 50	15 13	0 43	22 31
T 24	22 5	15 56	1 51	25 38	2 7	24 30	2 7	1 10	0 28	21 12	0 42	22 35	0 50	15 13	0 43	22 30
F 25	22 14	11 13	2 52	25 36	2 6	24 20	2 0	1 2	0 26	21 10	0 42	22 36	0 50	15 13	0 43	22 30
S 26	22 21	6 11	3 43	25 33	2 4	24 10	1 53	0 53	0 24	21 9	0 42	22 36	0 50	15 13	0 43	22 30
S 27	22 28	1 0	4 24	25 28	2 2	24 0	1 45	0 44	0 23	21 8	0 42	22 36	0 50	15 13	0 43	22 30
M28	22 35	4s 9	4 52	25 21	1 59	23 49	1 36	0 34	0 21	21 7	0 42	22 37	0 50	15 14	0 44	22 30
T 29	22 42	9 7	5 8	25 13	1 55	23 39	1 28	0 25	0 19	21 6	0 41	22 37	0 50	15 14	0 44	22 30
W30	22 48	13 45	5 11	25 3	1 51	23 28	1 19	0 15	0 17	21 5	0 41	22 37	0 50	15 14	0 44	22 30
T 31	22n54	17s54	5s 0	24n51	1n46	23n17	1n 9	0n 6	0n16	21s 4	0n41	22n38	0s50	15s14	0s44	22n30

Julian Day Number = 2237641.5, Delta T = 07m30s

Ecliptic obliquity = 23°30'59", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'13", Lahiri = 15°41'13" Julian Calendar 1 May 1414 == Greg. Calendar 10 May 1414



# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

JUNE 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	17 10 28	18 <sup>II</sup> 7'13	17 <sup>III</sup> 1	11 <sup>☾</sup> 54	19 <sup>☾</sup> 14	0 <sup>♂</sup> 42	8°R 6	26 <sup>II</sup> 9	20°R58	7 <sup>☾</sup> 33	19 <sup>II</sup> 4	19°R 7	20 <sup>☾</sup> 28	16 <sup>♂</sup> 51	19°R15	F 1
S 2	17 14 24	19° 4'26	29°15	13°13	19°19	1° 4	7 <sup>♂</sup> 58	26°17	20 <sup>♂</sup> 57	7°35	19° 6	19 <sup>☾</sup> 2	20°25	16°57	19 <sup>III</sup> 11	S 2
S 3	17 18 21	20° 1'38	11 <sup>♂</sup> 41	14°30	19°22	1°25	7°51	26°25	20°57	7°37	19° 7	18°57	20°22	17° 4	19° 8	S 3
M 4	17 22 17	20°58'50	24°19	15°43	19°R22	1°47	7°44	26°33	20°56	7°39	19° 9	18°54	20°19	17°11	19° 5	M 4
T 5	17 26 14	21°56'02	7 <sup>☾</sup> 10	16°54	19°20	2°10	7°36	26°41	20°55	7°41	19°10	18°52	20°16	17°17	19° 1	T 5
W 6	17 30 10	22°53'13	20°14	18° 2	19°16	2°33	7°29	26°48	20°54	7°43	19°12	18°D52	20°13	17°24	18°58	W 6
T 7	17 34 7	23°50'24	3 <sup>♂</sup> 30	19° 6	19° 9	2°56	7°22	26°56	20°53	7°45	19°13	18°53	20° 9	17°31	18°55	T 7
F 8	17 38 4	24°47'35	16°59	20° 8	19° 0	3°20	7°15	27° 4	20°52	7°48	19°14	18°54	20° 6	17°38	18°52	F 8
S 9	17 42 0	25°44'46	0 <sup>♂</sup> 41	21° 6	18°48	3°44	7° 8	27°12	20°51	7°50	19°16	18°55	20° 3	17°44	18°49	S 9
S 10	17 45 57	26°41'56	14°35	22° 1	18°35	4° 8	7° 1	27°20	20°50	7°52	19°17	18°56	20° 0	17°51	18°46	S 10
M 11	17 49 53	27°39'07	28°40	22°52	18°18	4°33	6°55	27°28	20°49	7°54	19°19	18°R57	19°57	17°58	18°44	M 11
T 12	17 53 50	28°36'18	12 <sup>♀</sup> 55	23°40	18° 0	4°58	6°48	27°36	20°48	7°56	19°20	18°56	19°53	18° 5	18°41	T 12
W 13	17 57 46	29°33'29	27°18	24°25	17°39	5°23	6°41	27°43	20°47	7°59	19°22	18°55	19°50	18°11	18°38	W 13
T 14	18 1 43	0 <sup>☾</sup> 30'41	11 <sup>♂</sup> 44	25° 5	17°16	5°49	6°35	27°51	20°45	8° 1	19°23	18°53	19°47	18°18	18°36	T 14
F 15	18 5 39	1°27'52	26°10	25°42	16°51	6°15	6°28	27°59	20°44	8° 3	19°24	18°51	19°44	18°25	18°33	F 15
S 16	18 9 36	2°25'04	10 <sup>II</sup> 29	26°14	16°24	6°41	6°22	28° 7	20°43	8° 5	19°26	18°48	19°41	18°31	18°31	S 16
S 17	18 13 33	3°22'16	24°38	26°43	15°55	7° 8	6°16	28°15	20°42	8° 7	19°27	18°47	19°38	18°38	18°28	S 17
M 18	18 17 29	4°19'28	8 <sup>☾</sup> 31	27° 7	15°25	7°35	6°10	28°23	20°40	8°10	19°29	18°46	19°34	18°45	18°26	M 18
T 19	18 21 26	5°16'40	22° 6	27°27	14°52	8° 2	6° 4	28°30	20°39	8°12	19°30	18°D46	19°31	18°52	18°24	T 19
W 20	18 25 22	6°13'51	5 <sup>☾</sup> 20	27°42	14°19	8°29	5°58	28°38	20°37	8°14	19°31	18°46	19°28	18°58	18°22	W 20
T 21	18 29 19	7°11'03	18°15	27°53	13°44	8°57	5°53	28°46	20°36	8°16	19°33	18°47	19°25	19° 5	18°20	T 21
F 22	18 33 15	8° 8'15	0 <sup>♂</sup> 50	27°59	13° 8	9°25	5°47	28°54	20°34	8°19	19°34	18°48	19°22	19°12	18°18	F 22
S 23	18 37 12	9° 5'27	13° 9	28°R 0	12°32	9°54	5°42	29° 2	20°33	8°21	19°35	18°49	19°19	19°19	18°16	S 23
S 24	18 41 8	10° 2'38	25°15	27°57	11°55	10°23	5°37	29° 9	20°31	8°23	19°37	18°50	19°15	19°25	18°15	S 24
M 25	18 45 5	10°59'50	7 <sup>♂</sup> 13	27°48	11°17	10°52	5°32	29°17	20°29	8°25	19°38	18°R50	19°12	19°32	18°13	M 25
T 26	18 49 2	11°57'01	19° 7	27°36	10°40	11°21	5°27	29°25	20°28	8°28	19°39	18°50	19° 9	19°39	18°12	T 26
W 27	18 52 58	12°54'13	1 <sup>III</sup> 1	27°18	10° 3	11°50	5°22	29°33	20°26	8°30	19°41	18°50	19° 6	19°45	18°10	W 27
T 28	18 56 55	13°51'25	13° 1	26°56	9°26	12°20	5°17	29°40	20°24	8°32	19°42	18°49	19° 3	19°52	18° 9	T 28
F 29	19 0 51	14°48'37	25° 9	26°30	8°49	12°50	5°13	29°48	20°22	8°34	19°43	18°49	18°59	19°59	18° 8	F 29
S 30	19 4 48	15° <sup>☾</sup> 45'49	7 <sup>♂</sup> 30	26° <sup>☾</sup> 1	8° <sup>☾</sup> 14	13° <sup>♂</sup> 21	5° <sup>♂</sup> 9	29 <sup>II</sup> 56	20° <sup>♂</sup> 21	8° <sup>☾</sup> 36	19 <sup>II</sup> 45	18° <sup>☾</sup> 48	18° <sup>☾</sup> 56	20° <sup>♂</sup> 6	18 <sup>III</sup> 7	S 30

Day	☉	☾		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	22n59	21s22	4s36	24n39	1n40	23n 7	0n59	0s 4	0n14	21s 3	0n41	22n38	0s50	15s15	0s44	22n30	0s48	16n16	6s49	22s 9	21s57	11s22	14s14	3n29	
S 2	23 4	23 56	3 58	24 25	1 34	22 56	0 49	0 14	0 12	21 2	0 41	22 38	0 49	15 15	0 44	22 30	0 48	16 16	6 49	22 10	21 57	11 25	14 13	3 29	
S 3	23 8	25 23	3 9	24 10	1 27	22 45	0 39	0 24	0 11	21 1	0 41	22 39	0 49	15 15	0 44	22 29	0 48	16 16	6 49	22 10	21 58	11 28	14 12	3 29	
M 4	23 12	25 34	2 10	23 54	1 19	22 34	0 28	0 35	0 9	21 0	0 41	22 39	0 49	15 15	0 44	22 29	0 48	16 16	6 49	22 11	21 58	11 30	14 11	3 29	
T 5	23 16	24 23	1 4	23 37	1 11	22 23	0 16	0 45	0 7	20 59	0 40	22 39	0 49	15 16	0 44	22 29	0 48	16 17	6 49	22 11	21 59	11 33	14 11	3 29	
W 6	23 19	21 52	0n 8	23 19	1 2	22 12	0 5	0 56	0 6	20 58	0 40	22 40	0 49	15 16	0 44	22 29	0 48	16 17	6 49	22 11	21 59	11 36	14 10	3 29	
T 7	23 22	18 9	1 20	23 1	0 52	22 1	0s 8	1 6	0 4	20 57	0 40	22 40	0 49	15 16	0 44	22 29	0 48	16 17	6 49	22 11	22 0	11 38	14 9	3 29	
F 8	23 25	13 26	2 28	22 42	0 42	21 50	0 20	1 17	0 3	20 56	0 40	22 40	0 49	15 17	0 44	22 29	0 48	16 17	6 49	22 11	22 0	11 41	14 8	3 29	
S 9	23 27	8 0	3 30	22 22	0 31	21 39	0 33	1 28	0 1	20 55	0 40	22 40	0 49	15 17	0 44	22 29	0 48	16 17	6 49	22 11	22 1	11 44	14 7	3 29	
S 10	23 28	2 5	4 20	22 2	0 20	21 28	0 46	1 39	0s 0	20 54	0 40	22 41	0 49	15 17	0 44	22 29	0 48	16 17	6 49	22 10	22 1	11 46	14 6	3 29	
M11	23 30	3n59	4 55	21 42	0 8	21 17	0 59	1 50	0 2	20 53	0 39	22 41	0 49	15 18	0 44	22 29	0 48	16 17	6 49	22 10	22 2	11 49	14 6	3 29	
T 12	23 31	9 55	5 13	21 22	0s 4	21 6	1 13	2 2	0 3	20 52	0 39	22 41	0 49	15 18	0 44	22 28	0 48	16 18	6 49	22 10	22 2	11 52	14 5	3 29	
W13	23 31	15 23	5 11	21 2	0 17	20 55	1 26	2 13	0 5	20 51	0 39	22 41	0 49	15 19	0 44	22 28	0 48	16 18	6 49	22 11	22 3	11 54	14 4	3 29	
T 14	23 31	20 0	4 50	20 42	0 30	20 44	1 40	2 25	0 6	20 50	0 39	22 41	0 48	15 19	0 44	22 28	0 48	16 18	6 49	22 11	22 3	11 57	14 3	3 29	
F 15	23 30	23 25	4 11	20 21	0 44	20 33	1 54	2 36	0 8	20 49	0 39	22 42	0 48	15 19	0 44	22 28	0 48	16 18	6 49	22 11	22 4	11 59	14 3	3 29	
S 16	23 30	25 19	3 16	20 2	0 58	20 23	2 9	2 48	0 9	20 49	0 39	22 42	0 48	15 20	0 44	22 28	0 48	16 18	6 49	22 11	22 4	12 2	14 2	3 29	
S 17	23 28	25 34	2 9	19 42	1 12	20 12	2 23	3 0	0 10	20 48	0 38	22 42	0 48	15 20	0 44	22 28	0 48	16 18	6 49	22 12	22 5	12 5	14 1	3 29	
M18	23 27	24 11	0 56	19 23	1 27	20 1	2 37	3 12	0 12	20 47	0 38	22 42	0 48	15 21	0 44	22 28	0 48	16 18	6 49	22 12	22 5	12 7	14 1	3 29	
T 19	23 25	21 24	0s18	19 5	1 41	19 51	2 51	3 24	0 13	20 46	0 38	22 42	0 48	15 21	0 44	22 28	0 48	16 18	6 49	22 12	22 5	12 10	14 0	3 29	
W20	23 22	17 32	1 30	18 47	1 56	19 40	3 5	3 36	0 14	20 45	0 38	22 43	0 48	15 22	0 44	22 28	0 48	16 19	6 49	22 12	22 6	12 12	14 0	3 29	
T 21	23 19	12 56	2 36	18 30	2 12	19 30	3 19	3 48	0 16	20 44	0 38	22 43	0 48	15 22	0 44	22 27	0 48	16 19	6 49	22 12	22 6	12 15	13 59	3 29	
F 22	23 16	7 54	3 32	18 14	2 27	19 20	3 33	4 0	0 17	20 44	0 37	22 43	0 48	15 23	0 44	22 27	0 48	16 19	6 49	22 12	22 7	12 18	13 59	3 29	
S 23	23 12	2 41	4 17	17 59	2 42	19 10	3 46	4 13	0 18	20 43	0 37	22 43	0 48	15 23	0 44	22 27	0 48	16 19	6 49	22 11	22 7	12 20	13 58	3 29	
S 24	23 8	2s33	4 50	17 45	2 57	19 1	3 59	4 25	0 19	20 42	0 37	22 43	0 48	15 24	0 44	22 27	0 48	16 19	6 49	22 11	22 8	12 23	13 58	3 29	
M25	23 4	7 37	5 10	17 33	3 11	18 51	4 12	4 38	0 21	20 41	0 37	22 43	0 48	15 24	0 44	22 27	0 48	16 19	6 49	22 11	22 8	12 25	13 58	3 29	
T 26	22 59	12 23	5 17	17 21	3 25	18 42	4 24	4 50	0 22	20 41	0 37	22 43	0 48	15 25	0 44	22 27	0 48	16 19	6 49	22 11	22 9	12 28	13 57	3 29	
W27	22 53	16 41	5 9	17 11	3 39	18 33	4 35	5 3	0 23	20 40	0 36	22 43	0 47	15 26	0 45	22 27	0 48	16 19	6 49	22 11	22 9	12 30	13 57	3 29	
T 28	22 48	20 23	4 49	17 3	3 52	18 25	4 46	5 16	0 24	20 40	0 36	22 44	0 47	15 26	0 45	22 26	0 48	16 19	6 49	22 11	22 10	12 33	13 57	3 29	
F 29	22 41	23 14	4 15	16 56	4 4	18 17	4 57	5 29	0 25	20 39	0 36	22 44	0 47	15 27	0 45	22 26	0 48	16 19	6 49	22 11	22 10	12 36	13 56	3 29	
S 30	22n35	25s 4	3s29	16n50	4s15	18n 9	5s 7	5s41	0s27	20s38	0n36	22n44	0s47	15s27	0s45	22n26	0s48	16n19	6s49	22s12	22s10	12s38	13s56	3n29	

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

JULY 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	19 8 44	16°43'01	20°7'6	25°R27	7°R40	13°51	5°R 5	0°3	20°R19	8°39	19°46	18°R48	18°53	20°12	18°R 6	S 1
M 2	19 12 41	17°40'14	2°58	24°51	7°5	14°22	5°1	0°11	20°17	8°41	19°47	18°48	18°50	20°19	18°M 5	M 2
T 3	19 16 38	18°37'28	16° 8	24°12	6°35	14°53	4°57	0°18	20°15	8°43	19°49	18°48	18°47	20°26	18° 4	T 3
W 4	19 20 34	19°34'41	29°35	23°32	6° 5	15°24	4°53	0°26	20°13	8°45	19°50	18°48	18°44	20°33	18° 3	W 4
T 5	19 24 31	20°31'56	13°17	22°50	5°37	15°56	4°50	0°34	20°11	8°47	19°51	18°48	18°40	20°39	18° 2	T 5
F 6	19 28 27	21°29'11	27°11	22° 8	5°11	16°27	4°46	0°41	20° 9	8°50	19°52	18°47	18°37	20°46	18° 2	F 6
S 7	19 32 24	22°26'27	11°16	21°27	4°47	16°59	4°43	0°49	20° 7	8°52	19°54	18°47	18°34	20°53	18° 1	S 7
S 8	19 36 20	23°23'43	25°28	20°46	4°25	17°31	4°40	0°56	20° 5	8°54	19°55	18°47	18°31	20°59	18° 1	S 8
M 9	19 40 17	24°21'01	9°43	20° 7	4° 5	18° 4	4°38	1° 3	20° 3	8°56	19°56	18°46	18°28	21° 6	18° 1	M 9
T 10	19 44 13	25°18'20	23°58	19°30	3°48	18°36	4°35	1°11	20° 1	8°58	19°57	18°D46	18°25	21°13	18° 1	T 10
W11	19 48 10	26°15'39	8°11	18°57	3°33	19° 9	4°33	1°18	19°59	9° 1	19°59	18°46	18°21	21°20	18°D 1	W11
T 12	19 52 7	27°13'00	22°20	18°28	3°20	19°42	4°30	1°26	19°57	9° 3	20° 0	18°47	18°18	21°26	18° 1	T 12
F 13	19 56 3	28°10'22	6°11	18° 3	3°10	20°15	4°28	1°33	19°55	9° 5	20° 1	18°47	18°15	21°33	18° 1	F 13
S 14	20 0 0	29° 7'46	20°14	17°43	3° 2	20°49	4°26	1°40	19°52	9° 7	20° 2	18°48	18°12	21°40	18° 1	S 14
S 15	20 3 56	0°5'10	3°55	17°28	2°57	21°22	4°25	1°48	19°50	9° 9	20° 3	18°49	18° 9	21°46	18° 1	S 15
M16	20 7 53	1° 2'35	17°24	17°19	2°54	21°56	4°23	1°55	19°48	9°11	20° 4	18°R49	18° 5	21°53	18° 2	M16
T 17	20 11 49	2° 0'01	0°38	17°D17	2°D53	22°30	4°22	2° 2	19°46	9°13	20° 5	18°49	18° 2	22° 0	18° 2	T 17
W18	20 15 46	2°57'28	13°38	17°20	2°54	23° 4	4°21	2° 9	19°44	9°15	20° 7	18°48	17°59	22° 7	18° 3	W18
T 19	20 19 42	3°54'57	26°22	17°30	2°58	23°39	4°20	2°16	19°41	9°17	20° 8	18°46	17°56	22°13	18° 4	T 19
F 20	20 23 39	4°52'25	8°51	17°47	3° 4	24°13	4°19	2°23	19°39	9°19	20° 9	18°44	17°53	22°20	18° 5	F 20
S 21	20 27 36	5°49'55	21° 7	18°10	3°12	24°48	4°18	2°30	19°37	9°22	20°10	18°42	17°50	22°27	18° 6	S 21
S 22	20 31 32	6°47'26	3°12	18°40	3°23	25°23	4°18	2°37	19°34	9°24	20°11	18°39	17°46	22°34	18° 7	S 22
M23	20 35 29	7°44'58	15° 9	19°16	3°35	25°58	4°18	2°44	19°32	9°26	20°12	18°37	17°43	22°40	18° 8	M23
T 24	20 39 25	8°42'30	27° 3	20° 0	3°50	26°34	4°D18	2°51	19°30	9°28	20°13	18°36	17°40	22°47	18° 9	T 24
W25	20 43 22	9°40'03	8°56	20°49	4° 6	27° 9	4°18	2°58	19°27	9°30	20°14	18°D35	17°37	22°54	18°10	W25
T 26	20 47 18	10°37'38	20°55	21°46	4°24	27°45	4°18	3° 5	19°25	9°32	20°15	18°36	17°34	23° 0	18°12	T 26
F 27	20 51 15	11°35'13	3°13	22°48	4°44	28°21	4°19	3°11	19°23	9°34	20°16	18°37	17°31	23° 7	18°13	F 27
S 28	20 55 11	12°32'50	15°25	23°57	5° 6	28°57	4°19	3°18	19°20	9°35	20°17	18°38	17°27	23°14	18°15	S 28
S 29	20 59 8	13°30'27	28° 6	25°11	5°30	29°33	4°20	3°25	19°18	9°37	20°18	18°40	17°24	23°21	18°17	S 29
M30	21 3 5	14°28'06	11°7	26°31	5°55	0°M 9	4°21	3°31	19°16	9°39	20°19	18°41	17°21	23°27	18°19	M30
T 31	21 7 1	15°25'46	24°31	27°56	6°22	0°M46	4°23	3°38	19°13	9°41	20°20	18°R41	17°18	23°34	18°M21	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	22n28	25s41	2s32	16n46	4s25	18n 2	5s16	5s54	0s28	20s38	0n36	22n44	0s47	15s28	0s45	22n26
M 2	22 21	24 56	1 27	16 44	4 34	17 55	5 25	6 7	0 29	20 37	0 35	22 44	0 47	15 29	0 45	22 26
T 3	22 13	22 47	0 15	16 44	4 41	17 49	5 33	6 21	0 30	20 37	0 35	22 44	0 47	15 29	0 45	22 26
W 4	22 5	19 20	0n59	16 45	4 47	17 43	5 40	6 34	0 31	20 36	0 35	22 44	0 47	15 30	0 45	22 26
T 5	21 56	14 47	2 12	16 47	4 51	17 38	5 46	6 47	0 32	20 36	0 35	22 44	0 47	15 31	0 45	22 25
F 6	21 48	9 24	3 17	16 52	4 54	17 33	5 52	7 0	0 33	20 36	0 35	22 44	0 47	15 31	0 45	22 25
S 7	21 38	3 29	4 11	16 57	4 54	17 29	5 57	7 13	0 34	20 35	0 34	22 44	0 47	15 32	0 45	22 25
S 8	21 29	2n38	4 51	17 4	4 53	17 25	6 2	7 27	0 35	20 35	0 34	22 44	0 47	15 33	0 45	22 25
M 9	21 19	8 39	5 13	17 13	4 51	17 21	6 6	7 40	0 36	20 35	0 34	22 44	0 47	15 33	0 45	22 25
T 10	21 9	14 12	5 15	17 22	4 46	17 19	6 9	7 53	0 37	20 34	0 34	22 44	0 47	15 34	0 45	22 25
W11	20 58	18 59	4 59	17 33	4 40	17 16	6 12	8 7	0 38	20 34	0 33	22 44	0 47	15 35	0 45	22 25
T 12	20 47	22 40	4 24	17 44	4 33	17 15	6 14	8 20	0 39	20 34	0 33	22 44	0 47	15 35	0 45	22 24
F 13	20 36	24 57	3 34	17 56	4 24	17 13	6 15	8 34	0 40	20 34	0 33	22 44	0 47	15 36	0 45	22 24
S 14	20 24	25 41	2 32	18 9	4 13	17 12	6 16	8 47	0 41	20 34	0 33	22 44	0 47	15 37	0 45	22 24
S 15	20 12	24 49	1 22	18 22	4 2	17 12	6 17	9 1	0 42	20 33	0 33	22 44	0 46	15 37	0 45	22 24
M16	19 59	22 31	0 8	18 36	3 49	17 12	6 17	9 14	0 43	20 33	0 32	22 44	0 46	15 38	0 45	22 24
T 17	19 47	19 1	1s 5	18 50	3 36	17 13	6 17	9 28	0 44	20 33	0 32	22 44	0 46	15 39	0 45	22 24
W18	19 34	14 40	2 13	19 4	3 21	17 13	6 16	9 42	0 45	20 33	0 32	22 44	0 46	15 40	0 45	22 24
T 19	19 20	9 45	3 13	19 17	3 6	17 15	6 14	9 55	0 46	20 33	0 32	22 44	0 46	15 40	0 45	22 23
F 20	19 6	4 32	4 2	19 31	2 51	17 16	6 13	10 9	0 47	20 33	0 32	22 43	0 46	15 41	0 45	22 23
S 21	18 52	0s45	4 39	19 43	2 35	17 18	6 11	10 22	0 48	20 34	0 31	22 43	0 46	15 42	0 45	22 23
S 22	18 38	5 55	5 3	19 55	2 19	17 20	6 8	10 36	0 49	20 34	0 31	22 43	0 46	15 42	0 45	22 23
M23	18 23	10 49	5 14	20 6	2 2	17 22	6 6	10 50	0 49	20 34	0 31	22 43	0 46	15 43	0 45	22 23
T 24	18 8	15 17	5 11	20 16	1 46	17 25	6 3	11 3	0 50	20 34	0 31	22 43	0 46	15 44	0 45	22 23
W25	17 53	19 11	4 55	20 25	1 30	17 28	5 59	11 17	0 51	20 34	0 31	22 43	0 46	15 45	0 45	22 23
T 26	17 38	22 19	4 26	20 32	1 14	17 31	5 56	11 31	0 52	20 35	0 30	22 43	0 46	15 45	0 45	22 22
F 27	17 22	24 31	3 45	20 38	0 58	17 34	5 52	11 44	0 53	20 35	0 30	22 43	0 46	15 46	0 45	22 22
S 28	17 6	25 35	2 53	20 41	0 43	17 37	5 48	11 58	0 53	20 35	0 30	22 43	0 46	15 47	0 45	22 22
S 29	16 49	25 21	1 51	20 43	0 28	17 40	5 44	12 12	0 54	20 36	0 30	22 42	0 46	15 48	0 45	22 22
M30	16 33	23 44	0 41	20 42	0 13	17 44	5 40	12 25	0 55	20 36	0 30	22 42	0 46	15 48	0 45	22 22
T 31	16n16	20s46	0n32	20n39	0n 0	17n47	5s35	12s39	0s56	20s36	0n29	22n42	0s46	15s49	0s45	22n22

Julian Day Number = 2237702.5, Delta T = 07m30s

Ecliptic obliquity = 23°30'58, Nutation = 0°00'17, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'21, Lahiri = 15°41'21 Julian Calendar 1 July 1414 == Greg. Calendar 10 July 1414



ASTRODIENST EPHEMERIS for the year 1414  
geocentric

AUGUST 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	21 10 58	16♌23°27	8♋17	29♊26	6♊50	1♉22	4♌24	3♊44	19°R11	9♊43	20♉20	18°R40	17♌15	23♌41	18♌23	W 1
T 2	21 14 54	17°21'09	22°23	1♌1	7°20	1°59	4°26	3°51	19°8	9°45	20°21	18°37	17°11	23°48	18°25	T 2
F 3	21 18 51	18°18'52	6♋46	2°40	7°51	2°36	4°28	3°57	19°6	9°47	20°22	18°34	17°8	23°54	18°27	F 3
S 4	21 22 47	19°16'37	21°19	4°22	8°24	3°13	4°30	4°4	19°4	9°49	20°23	18°29	17°5	24°1	18°29	S 4
S 5	21 26 44	20°14'24	5♈55	6°9	8°58	3°50	4°32	4°10	19°1	9°50	20°24	18°25	17°2	24°8	18°32	S 5
M 6	21 30 40	21°12'13	20°30	7°58	9°34	4°28	4°34	4°16	18°59	9°52	20°25	18°21	16°59	24°14	18°34	M 6
T 7	21 34 37	22°10'03	4♌56	9°49	10°10	5°5	4°37	4°22	18°56	9°54	20°25	18°19	16°56	24°21	18°37	T 7
W 8	21 38 34	23°7'55	19°10	11°43	10°48	5°43	4°39	4°28	18°54	9°56	20°26	18°D18	16°52	24°28	18°40	W 8
T 9	21 42 30	24°5'49	3♉11	13°38	11°27	6°21	4°42	4°34	18°52	9°57	20°27	18°18	16°49	24°35	18°42	T 9
F 10	21 46 27	25°3'45	16°57	15°35	12°7	6°59	4°45	4°40	18°49	9°59	20°28	18°19	16°46	24°41	18°45	F 10
S 11	21 50 23	26°1'43	0♊28	17°32	12°49	7°37	4°49	4°46	18°47	10°1	20°28	18°20	16°43	24°48	18°48	S 11
S 12	21 54 20	26°59'42	13°46	19°30	13°31	8°15	4°52	4°52	18°45	10°2	20°29	18°R21	16°40	24°55	18°51	S 12
M13	21 58 16	27°57'44	26°51	21°28	14°14	8°54	4°56	4°58	18°42	10°4	20°30	18°21	16°37	25°1	18°54	M13
T14	22 2 13	28°55'47	9♌43	23°27	14°58	9°32	4°59	5°4	18°40	10°6	20°30	18°19	16°33	25°8	18°58	T14
W15	22 6 9	29°53'52	22°24	25°25	15°44	10°11	5°3	5°9	18°37	10°7	20°31	18°15	16°30	25°15	19°1	W15
T16	22 10 6	0♉51'58	4♉54	27°22	16°30	10°50	5°7	5°15	18°35	10°9	20°32	18°9	16°27	25°22	19°4	T16
F17	22 14 3	1°50'07	17°13	29°20	17°16	11°29	5°12	5°20	18°33	10°10	20°32	18°2	16°24	25°28	19°8	F17
S18	22 17 59	2°48'17	29°23	1♉16	18°4	12°8	5°16	5°26	18°31	10°12	20°33	17°53	16°21	25°35	19°11	S18
S19	22 21 56	3°46'28	11♌24	3°12	18°53	12°47	5°21	5°31	18°28	10°13	20°33	17°45	16°17	25°42	19°15	S19
M20	22 25 52	4°44'41	23°18	5°6	19°42	13°26	5°25	5°36	18°26	10°15	20°34	17°37	16°14	25°48	19°19	M20
T21	22 29 49	5°42'56	5♉10	7°0	20°32	14°6	5°30	5°42	18°24	10°16	20°34	17°31	16°11	25°55	19°23	T21
W22	22 33 45	6°41'12	17°1	8°53	21°23	14°46	5°36	5°47	18°21	10°18	20°35	17°27	16°8	26°2	19°27	W22
T23	22 37 42	7°39'30	28°57	10°45	22°14	15°25	5°41	5°52	18°19	10°19	20°35	17°25	16°5	26°9	19°31	T23
F24	22 41 38	8°37'50	11♌2	12°35	23°6	16°5	5°46	5°57	18°17	10°20	20°36	17°D24	16°2	26°15	19°35	F24
S25	22 45 35	9°36'11	23°22	14°25	23°59	16°45	5°52	6°2	18°15	10°22	20°36	17°25	15°58	26°22	19°39	S25
S26	22 49 32	10°34'34	6♌0	16°13	24°52	17°25	5°58	6°6	18°13	10°23	20°36	17°26	15°55	26°29	19°43	S26
M27	22 53 28	11°32'59	19°2	18°0	25°46	18°6	6°3	6°11	18°11	10°24	20°37	17°R27	15°52	26°36	19°48	M27
T28	22 57 25	12°31'25	2♌30	19°46	26°41	18°46	6°10	6°16	18°8	10°26	20°37	17°26	15°49	26°42	19°52	T28
W29	23 1 21	13°29'52	16°26	21°32	27°36	19°26	6°16	6°20	18°6	10°27	20°37	17°22	15°46	26°49	19°57	W29
T30	23 5 18	14°28'22	0♈48	23°16	28°31	20°7	6°22	6°25	18°4	10°28	20°38	17°17	15°42	26°56	20°1	T30
F31	23 9 14	15°16'53	15♌31	24°16	29°28	20°14	6°29	6°32	18°4	10°29	20°38	17°17	15°42	26°56	20°1	F31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
W 1	15n58	16s33	1n45	20n33	0n14	17n51	5s30	12s52	0s57	20s37	0n29	22n42	0s46	15s50	0s45	22n22
T 2	15 41	11 21	2 54	20 25	0 26	17 54	5 25	13 6	0 57	20 37	0 29	22 42	0 46	15 51	0 45	22 21
F 3	15 23	5 27	3 53	20 14	0 37	17 57	5 20	13 19	0 58	20 38	0 29	22 42	0 46	15 51	0 45	22 21
S 4	15 5	0n48	4 38	20 0	0 48	18 0	5 15	13 33	0 59	20 38	0 28	22 42	0 46	15 52	0 45	22 21
S 5	14 47	7 1	5 4	19 44	0 58	18 3	5 10	13 46	0 59	20 39	0 28	22 41	0 46	15 53	0 45	22 21
M 6	14 29	12 50	5 11	19 25	1 7	18 6	5 4	14 0	1 0	20 40	0 28	22 41	0 46	15 54	0 45	22 21
T 7	14 10	17 53	4 59	19 3	1 15	18 9	4 59	14 13	1 1	20 40	0 28	22 41	0 46	15 55	0 45	22 21
W 8	13 51	21 52	4 28	18 38	1 22	18 12	4 53	14 26	1 2	20 41	0 28	22 41	0 46	15 55	0 45	22 21
T 9	13 32	24 29	3 41	18 11	1 28	18 15	4 48	14 39	1 2	20 42	0 27	22 41	0 46	15 56	0 45	22 20
F 10	13 13	25 34	2 43	17 42	1 33	18 17	4 42	14 53	1 3	20 42	0 27	22 41	0 46	15 57	0 45	22 20
S 11	12 53	25 7	1 56	17 11	1 38	18 19	4 36	15 6	1 4	20 43	0 27	22 40	0 45	15 57	0 45	22 20
S 12	12 33	23 13	0 25	16 37	1 41	18 21	4 30	15 19	1 4	20 44	0 27	22 40	0 45	15 58	0 45	22 20
M13	12 13	20 6	0s46	16 2	1 44	18 22	4 24	15 32	1 5	20 45	0 27	22 40	0 45	15 59	0 45	22 20
T14	11 53	16 3	1 53	15 24	1 45	18 24	4 18	15 45	1 5	20 46	0 27	22 40	0 45	16 0	0 45	22 20
W15	11 33	11 21	2 54	14 46	1 47	18 25	4 12	15 58	1 6	20 47	0 26	22 40	0 45	16 0	0 45	22 20
T16	11 12	6 15	3 45	14 6	1 47	18 25	4 6	16 11	1 7	20 48	0 26	22 39	0 45	16 1	0 45	22 20
F17	10 51	1 0	4 25	13 24	1 47	18 26	4 0	16 23	1 7	20 49	0 26	22 39	0 45	16 2	0 45	22 19
S18	10 30	4s12	4 52	12 42	1 46	18 26	3 54	16 36	1 8	20 50	0 26	22 39	0 45	16 3	0 45	22 19
S19	10 9	9 12	5 5	11 59	1 44	18 25	3 48	16 49	1 8	20 51	0 26	22 39	0 45	16 3	0 45	22 19
M20	9 48	13 49	5 6	11 15	1 42	18 25	3 42	17 1	1 9	20 52	0 25	22 39	0 45	16 4	0 45	22 19
T21	9 27	17 53	4 53	10 30	1 39	18 23	3 35	17 14	1 9	20 53	0 25	22 38	0 45	16 5	0 45	22 19
W22	9 5	21 15	4 28	9 45	1 36	18 22	3 29	17 26	1 10	20 54	0 25	22 38	0 45	16 5	0 45	22 19
T23	8 43	23 44	3 51	8 59	1 33	18 20	3 23	17 38	1 11	20 55	0 25	22 38	0 45	16 6	0 45	22 19
F24	8 22	25 11	3 3	8 13	1 29	18 18	3 17	17 50	1 11	20 56	0 25	22 38	0 45	16 7	0 45	22 19
S25	8 0	25 26	2 6	7 27	1 24	18 15	3 11	18 2	1 12	20 57	0 24	22 38	0 45	16 7	0 45	22 18
S26	7 38	24 24	1 1	6 41	1 20	18 12	3 4	18 14	1 12	20 58	0 24	22 37	0 45	16 8	0 45	22 18
M27	7 15	22 1	0n8	5 54	1 14	18 9	2 58	18 26	1 13	21 0	0 24	22 37	0 45	16 9	0 45	22 18
T28	6 53	18 22	1 20	5 7	1 9	18 5	2 52	18 38	1 13	21 1	0 24	22 37	0 45	16 9	0 45	22 18
W29	6 30	13 36	2 29	4 21	1 4	18 0	2 46	18 49	1 13	21 2	0 24	22 37	0 45	16 10	0 45	22 18
T30	6 8	7 57	3 30	3 34	0 58	17 55	2 39	19 1	1 14	21 3	0 24	22 37	0 45	16 11	0 45	22 18
F31	5n45	1s44	4n19	2n48	0n52	17n50	2s33	19s12	1s14	21s5	0n23	22n36	0s45	16s11	0s45	22n18

Julian Day Number = 2237733.5, Delta T = 07m30s  
Ecliptic obliquity = 23°30'58", Nutation = 0°00'18", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 16°34'25", Lahiri = 15°41'26" Julian Calendar 1 Aug. 1414 == Greg. Calendar 10 Aug. 1414

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

SEPTEMBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	23 13 11	16 <sup>h</sup> 25'26"	0 <sup>h</sup> Y29	26 <sup>h</sup> 40	0 <sup>h</sup> 24	21 <sup>h</sup> 29	6 <sup>h</sup> 35	6 <sup>h</sup> 33	18°R 0	10 <sup>h</sup> 30	20 <sup>h</sup> 38	17°R 1	15 <sup>h</sup> 36	27 <sup>h</sup> 9	20 <sup>h</sup> 10	S 1
S 2	23 17 7	17°24'02"	15°32'	28°21'	1°22'	22° 9'	6°42'	6°38'	17°58'	10°32'	20°39'	16°35'	15°33'	27°16'	20°15'	S 2
M 3	23 21 4	18°22'39"	0 <sup>h</sup> 30	0 <sup>h</sup> 1	2°19'	22°50'	6°49'	6°42'	17°56'	10°33'	20°39'	16°43'	15°30'	27°23'	20°20'	M 3
T 4	23 25 0	19°21'19"	15°14'	1°40'	3°17'	23°32'	6°56'	6°46'	17°54'	10°34'	20°39'	16°37'	15°27'	27°29'	20°25'	T 4
W 5	23 28 57	20°20'01"	29°40'	3°18'	4°16'	24°13'	7° 3'	6°50'	17°52'	10°35'	20°39'	16°33'	15°23'	27°36'	20°30'	W 5
T 6	23 32 54	21°18'45"	13 <sup>h</sup> II44	4°54'	5°15'	24°54'	7°11'	6°54'	17°51'	10°36'	20°39'	16°31'	15°20'	27°43'	20°35'	T 6
F 7	23 36 50	22°17'32"	27°26'	6°30'	6°15'	25°36'	7°18'	6°57'	17°49'	10°37'	20°39'	16°D31	15°17'	27°49'	20°40'	F 7
S 8	23 40 47	23°16'21"	10 <sup>h</sup> 347	8° 5'	7°15'	26°17'	7°26'	7° 1'	17°47'	10°38'	20°40'	16°R32	15°14'	27°56'	20°46'	S 8
S 9	23 44 43	24°15'12"	23°50'	9°39'	8°15'	26°59'	7°34'	7° 5'	17°45'	10°38'	20°40'	16°32'	15°11'	28° 3'	20°51'	S 9
M10	23 48 40	25°14'06"	6 <sup>h</sup> 237	11°12'	9°16'	27°41'	7°42'	7° 8'	17°43'	10°39'	20°40'	16°30'	15° 8'	28°10'	20°56'	M10
T 11	23 52 36	26°13'02"	19°12'	12°45'	10°17'	28°23'	7°50'	7°12'	17°42'	10°40'	20°40'	16°25'	15° 4'	28°16'	21° 2'	T 11
W12	23 56 33	27°12'00"	1 <sup>h</sup> 36	14°16'	11°19'	29° 5'	7°58'	7°15'	17°40'	10°41'	20°R40	16°18'	15° 1'	28°23'	21° 7'	W12
T 13	0 0 29	28°11'00"	13°52'	15°46'	12°21'	29°47'	8° 6'	7°18'	17°38'	10°42'	20°40'	16° 8'	14°58'	28°30'	21°13'	T 13
F 14	0 4 26	29°10'02"	26° 0'	17°16'	13°23'	0 <sup>h</sup> 29	8°14'	7°21'	17°37'	10°42'	20°40'	15°56'	14°55'	28°37'	21°18'	F 14
S 15	0 8 23	0 <sup>h</sup> 9'06"	8 <sup>h</sup> 1	18°45'	14°25'	1°11'	8°23'	7°24'	17°35'	10°43'	20°40'	15°43'	14°52'	28°43'	21°24'	S 15
S 16	0 12 19	1° 8'12"	19°57'	20°12'	15°28'	1°54'	8°32'	7°27'	17°34'	10°44'	20°40'	15°29'	14°48'	28°50'	21°30'	S 16
M17	0 16 16	2° 7'21"	1 <sup>h</sup> 49	21°39'	16°31'	2°36'	8°41'	7°30'	17°32'	10°45'	20°40'	15°16'	14°45'	28°57'	21°36'	M17
T 18	0 20 12	3° 6'31"	13°40'	23° 5'	17°35'	3°19'	8°49'	7°32'	17°31'	10°45'	20°39'	15° 5'	14°42'	29° 3'	21°41'	T 18
W19	0 24 9	4° 5'43"	25°30'	24°30'	18°39'	4° 2'	8°59'	7°35'	17°29'	10°46'	20°39'	14°57'	14°39'	29°10'	21°47'	W19
T 20	0 28 5	5° 4'57"	7 <sup>h</sup> 25	25°54'	19°43'	4°44'	9° 8'	7°38'	17°28'	10°46'	20°39'	14°51'	14°36'	29°17'	21°53'	T 20
F 21	0 32 2	6° 4'13"	19°27'	27°17'	20°47'	5°27'	9°17'	7°40'	17°26'	10°47'	20°39'	14°49'	14°33'	29°24'	21°59'	F 21
S 22	0 35 58	7° 3'31"	1 <sup>h</sup> 343	28°39'	21°52'	6°10'	9°26'	7°42'	17°25'	10°47'	20°39'	14°48'	14°29'	29°30'	22° 6'	S 22
S 23	0 39 55	8° 2'51"	14°16'	29°59'	22°57'	6°53'	9°36'	7°44'	17°24'	10°48'	20°38'	14°48'	14°26'	29°37'	22°12'	S 23
M24	0 43 52	9° 2'12"	27°12'	1 <sup>h</sup> 19	24° 2'	7°36'	9°46'	7°46'	17°23'	10°48'	20°38'	14°47'	14°23'	29°44'	22°18'	M24
T 25	0 47 48	10° 1'36"	10 <sup>h</sup> 35	2°37'	25° 8'	8°20'	9°55'	7°48'	17°22'	10°48'	20°38'	14°45'	14°20'	29°50'	22°24'	T 25
W26	0 51 45	11° 1'01"	24°28'	3°55'	26°14'	9° 3'	10° 5'	7°50'	17°20'	10°49'	20°38'	14°41'	14°17'	29°57'	22°30'	W26
T 27	0 55 41	12° 0'27"	8 <sup>h</sup> 52	5°11'	27°20'	9°46'	10°15'	7°52'	17°19'	10°49'	20°37'	14°34'	14°14'	0 <sup>h</sup> 4	22°37'	T 27
F 28	0 59 38	12°59'56"	23°41'	6°25'	28°26'	10°30'	10°25'	7°54'	17°18'	10°49'	20°37'	14°25'	14°10'	0°11'	22°43'	F 28
S 29	1 3 34	13°59'27"	8 <sup>h</sup> Y51	7°38'	29°32'	11°14'	10°35'	7°55'	17°17'	10°50'	20°37'	14°14'	14° 7'	0°17'	22°50'	S 29
S 30	1 7 31	14 <sup>h</sup> 58'59"	24 <sup>h</sup> Y10	8 <sup>h</sup> 49	0 <sup>h</sup> 39	11 <sup>h</sup> 57	10 <sup>h</sup> 46	7 <sup>h</sup> 56	17 <sup>h</sup> 16	10 <sup>h</sup> 50	20 <sup>h</sup> 36	14 <sup>h</sup> 3	14 <sup>h</sup> 3	0 <sup>h</sup> 24	22 <sup>h</sup> 56	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	5n22	4n39	4n51	2n 1	0n45	17n44	2s27	19s24	1s15	21s 6	0n23	22n36	0s45	16s12	0s45	22n18	0s48	16n19	6s53	22s26	22s36	15s11	14s36	3n22			
S 2	5 0	10 48	5 4	1 15	0 39	17 38	2 21	19 35	1 15	21 7	0 23	22 36	0 45	16 12	0 45	22 18	0 48	16 19	6 54	22 27	22 36	15 14	14 37	3 22			
M 3	4 37	16 17	4 55	0 29	0 32	17 31	2 15	19 46	1 16	21 9	0 23	22 36	0 45	16 13	0 45	22 18	0 48	16 18	6 54	22 28	22 37	15 16	14 39	3 22			
T 4	4 14	20 43	4 27	0s16	0 26	17 24	2 9	19 57	1 16	21 10	0 23	22 36	0 45	16 14	0 45	22 17	0 48	16 18	6 54	22 29	22 37	15 18	14 40	3 22			
W 5	3 50	23 46	3 42	1 2	0 19	17 16	2 3	20 7	1 16	21 11	0 23	22 35	0 45	16 14	0 45	22 17	0 48	16 18	6 54	22 29	22 38	15 20	14 41	3 22			
T 6	3 27	25 15	2 45	1 47	0 12	17 8	1 57	20 18	1 17	21 13	0 22	22 35	0 45	16 15	0 45	22 17	0 48	16 18	6 54	22 29	22 38	15 23	14 43	3 22			
F 7	3 4	25 9	1 40	2 31	0 5	16 59	1 51	20 28	1 17	21 14	0 22	22 35	0 45	16 15	0 45	22 17	0 48	16 18	6 54	22 29	22 38	15 25	14 44	3 22			
S 8	2 41	23 35	0 31	3 15	0s 3	16 50	1 45	20 39	1 18	21 15	0 22	22 35	0 45	16 16	0 45	22 17	0 48	16 18	6 54	22 29	22 39	15 27	14 46	3 22			
S 9	2 17	20 46	0s39	3 59	0 10	16 40	1 39	20 49	1 18	21 17	0 22	22 35	0 45	16 16	0 45	22 17	0 49	16 18	6 54	22 29	22 39	15 29	14 47	3 21			
M10	1 54	16 59	1 45	4 43	0 17	16 30	1 33	20 59	1 18	21 18	0 22	22 35	0 45	16 17	0 45	22 17	0 49	16 18	6 54	22 30	22 39	15 32	14 49	3 21			
T 11	1 31	12 31	2 44	5 25	0 24	16 19	1 27	21 8	1 19	21 20	0 22	22 34	0 45	16 17	0 45	22 17	0 49	16 18	6 55	22 30	22 40	15 34	14 50	3 21			
W12	1 7	7 36	3 35	6 8	0 32	16 8	1 22	21 18	1 19	21 21	0 21	22 34	0 45	16 18	0 45	22 17	0 49	16 18	6 55	22 31	22 40	15 36	14 51	3 21			
T 13	0 43	2 27	4 15	6 50	0 39	15 56	1 16	21 28	1 19	21 23	0 21	22 34	0 45	16 18	0 45	22 17	0 49	16 17	6 55	22 32	22 40	15 38	14 53	3 21			
F 14	0 20	2s43	4 43	7 31	0 46	15 44	1 10	21 37	1 20	21 24	0 21	22 34	0 45	16 19	0 45	22 17	0 49	16 17	6 55	22 34	22 41	15 41	14 54	3 21			
S 15	0s 4	7 45	4 58	8 12	0 54	15 32	1 5	21 46	1 20	21 26	0 21	22 34	0 45	16 19	0 45	22 16	0 49	16 17	6 55	22 35	22 41	15 43	14 56	3 21			
S 16	0 27	12 26	4 59	8 52	1 1	15 19	0 59	21 55	1 20	21 27	0 21	22 34	0 45	16 20	0 45	22 16	0 49	16 17	6 55	22 37	22 41	15 45	14 57	3 21			
M17	0 51	16 39	4 48	9 31	1 8	15 5	0 54	22 4	1 21	21 29	0 21	22 33	0 45	16 20	0 45	22 16	0 49	16 17	6 55	22 38	22 42	15 47	14 59	3 21			
T 18	1 14	20 11	4 24	10 10	1 15	14 51	0 48	22 13	1 21	21 30	0 20	22 33	0 45	16 21	0 45	22 16	0 49	16 17	6 55	22 40	22 42	15 50	15 0	3 21			
W19	1 38	22 54	3 49	10 48	1 23	14 36	0 43	22 21	1 21	21 32	0 20	22 33	0 45	16 21	0 45	22 16	0 49	16 17	6 55	22 41	22 42	15 52	15 2	3 21			
T 20	2 2	24 38	3 4	11 26	1 30	14 21	0 38	22 29	1 21	21 34	0 20	22 33	0 45	16 21	0 45	22 16	0 49	16 17	6 55	22 41	22 43	15 54	15 4	3 21			
F 21	2 25	25 15	2 10	12 2	1 37	14 6	0 32	22 37	1 22	21 35	0 20	22 33	0 45	16 22	0 44	22 16	0 49	16 17	6 56	22 41	22 43	15 56	15 5	3 21			
S 22	2 49	24 39	1 9	12 38	1 43	13 50	0 27	22 45	1 22	21 37	0 20	22 33	0 45	16 22	0 44	22 16	0 49	16 16	6 56	22 42	22 44	15 58	15 7	3 21			
S 23	3 12	22 48	0 3	13 13	1 50	13 34	0 22	22 53	1 22	21 38	0 20	22 33	0 45	16 22	0 44	22 16	0 49	16 16	6 56	22 42	22 44	16 1	15 8	3 21			
M24	3 36	19 43	1n 5	13 47	1 57	13 17	0 17	23 0	1 22	21 40	0 20	22 33	0 45	16 23	0 44	22 16	0 49	16 16	6 56	22 42	22 44	16 3	15 10	3 21			
T 25	3 59	15 32	2 12	14 21	2 3	13 0	0 12	23 7	1 23	21 41	0 19	22 32	0 45	16 23	0 44	22 16	0 49	16 16	6 56	22 42	22 45	16 5	15 11	3 21			
W26	4 22	10 22	3 13	14 53	2 9	12 42	0 7	23 14	1 23	21 43	0 19	22 32	0 45	16 23	0 44	22 16	0 49	16 16	6 56	22 42	22 45	16 7	15 13	3 21			
T 27	4 46	4 30	4 4	15 25	2 15	12 24	0 2	23 21	1 23	21 45	0 19	22 32	0 45	16 24	0 44	22 16	0 49	16 16	6 56	22 43	22 45	16 9	15 15	3 21			
F 28	5 9	1n47	4 41	15 55	2 21	12 6	0n 2	23 28	1 23	21 46	0 19	22 32	0 45	16 24	0 44	22 16	0 49	16 16	6 56	22 44	22 46	16 12	15 16	3 21			
S 29	5 32	8 5	4 59	16 25	2 27	11 47	0 7	23 34	1 23	21 48	0 19	22 32	0 45	16 24	0 44	22 16	0 49	16 16	6 56	22 45	22 46	16 14	15 18	3 21			
S 30	5s55	13n58	4n55	16s53	2s32	11n27	0n11	23s40	1s24	21s49	0n19	22n32	0s45	16s25	0s44	22n16	0s49	16n15	6s56	22s46	22s46	16s16	15s19	3n21			



# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

NOVEMBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	3 13 41	17°14'	2°08'	6°R20	7°15'	5°53'	17°17'	7°R43	17°12'	10°R39	20°R14	10°R51	12°22'	3°15'	26°42'	T 1
F 2	3 17 37	18° 2'49	16° 8'	5°13'	9° 2'	6°38'	17°12'	7°54'	17°13'	10°53'	20°11'	10°D51	12°19'	4° 6'	26°50'	F 2
S 3	3 21 34	19° 3'25	29°39'	5° 6'	10°14'	7°24'	17°25'	7°38'	17°13'	10°37'	20°12'	10°52'	12°16'	4°12'	26°57'	S 3
S 4	3 25 30	20° 4'03	12°24'	4°46'	11°26'	8°10'	17°38'	7°35'	17°14'	10°36'	20°11'	10°53'	12°13'	4°19'	27° 5'	S 4
M 5	3 29 27	21° 4'42	25°26'	4°D37	12°38'	8°56'	17°51'	7°33'	17°15'	10°35'	20°10'	10°R53	12°10'	4°26'	27°12'	M 5
T 6	3 33 23	22° 5'23	7°10'	4°40'	13°50'	9°42'	18° 4'	7°30'	17°16'	10°34'	20° 9'	10°52'	12° 6'	4°32'	27°19'	T 6
W 7	3 37 20	23° 6'06	20° 0'	4°54'	15° 3'	10°28'	18°17'	7°28'	17°17'	10°33'	20° 8'	10°48'	12° 3'	4°39'	27°27'	W 7
T 8	3 41 16	24° 6'51	2°15'	5°16'	16°15'	11°15'	18°30'	7°25'	17°18'	10°32'	20° 7'	10°42'	12° 0'	4°46'	27°34'	T 8
F 9	3 45 13	25° 7'37	13°54'	5°48'	17°28'	12° 1'	18°43'	7°22'	17°19'	10°31'	20° 6'	10°35'	11°57'	4°53'	27°42'	F 9
S 10	3 49 10	26° 8'25	25°45'	6°27'	18°41'	12°47'	18°57'	7°19'	17°20'	10°30'	20° 5'	10°26'	11°54'	4°59'	27°49'	S 10
S 11	3 53 6	27° 9'14	7°13'	7°14'	19°54'	13°33'	19°10'	7°16'	17°21'	10°29'	20° 4'	10°17'	11°51'	5° 6'	27°57'	S 11
M12	3 57 3	28°10'04	19°29'	8° 6'	21° 6'	14°20'	19°23'	7°12'	17°22'	10°28'	20° 3'	10° 9'	11°47'	5°13'	28° 4'	M12
T 13	4 0 59	29°10'56	1°12'	9° 4'	22°19'	15° 6'	19°37'	7° 9'	17°24'	10°27'	20° 1'	10° 2'	11°44'	5°19'	28°12'	T 13
W14	4 4 56	0°11'49	13°26'	10° 7'	23°32'	15°52'	19°50'	7° 6'	17°25'	10°25'	20° 0'	9°56'	11°41'	5°26'	28°19'	W14
T 15	4 8 52	1°12'43	25°33'	11°14'	24°45'	16°39'	20° 3'	7° 2'	17°26'	10°24'	19°59'	9°53'	11°38'	5°33'	28°27'	T 15
F 16	4 12 49	2°13'38	7°34'	12°24'	25°58'	17°25'	20°17'	6°59'	17°28'	10°23'	19°58'	9°D52	11°35'	5°40'	28°34'	F 16
S 17	4 16 46	3°14'34	20°14'	13°37'	27°12'	18°12'	20°30'	6°55'	17°29'	10°22'	19°57'	9°53'	11°31'	5°46'	28°42'	S 17
S 18	4 20 42	4°15'31	2°15'	14°53'	28°25'	18°58'	20°44'	6°51'	17°31'	10°20'	19°56'	9°54'	11°28'	5°53'	28°49'	S 18
M19	4 24 39	5°16'29	15°48'	16°11'	29°38'	19°45'	20°57'	6°48'	17°32'	10°19'	19°55'	9°56'	11°25'	6° 0'	28°57'	M19
T 20	4 28 35	6°17'27	29° 2'	17°31'	0°15'	20°31'	21°11'	6°44'	17°34'	10°18'	19°54'	9°57'	11°22'	6° 6'	29° 4'	T 20
W21	4 32 32	7°18'26	12°37'	18°53'	2° 5'	21°18'	21°24'	6°40'	17°35'	10°16'	19°52'	9°R57	11°19'	6°13'	29°11'	W21
T 22	4 36 28	8°19'26	26°36'	20°16'	3°19'	22° 5'	21°38'	6°36'	17°37'	10°15'	19°51'	9°56'	11°16'	6°20'	29°19'	T 22
F 23	4 40 25	9°20'26	10°57'	21°41'	4°32'	22°51'	21°52'	6°32'	17°39'	10°14'	19°50'	9°53'	11°12'	6°27'	29°26'	F 23
S 24	4 44 21	10°21'27	25°39'	23° 6'	5°46'	23°38'	22° 5'	6°27'	17°40'	10°12'	19°49'	9°49'	11° 9'	6°33'	29°34'	S 24
S 25	4 48 18	11°22'28	10°35'	24°32'	6°59'	24°25'	22°19'	6°23'	17°42'	10°11'	19°48'	9°45'	11° 6'	6°40'	29°41'	S 25
M26	4 52 15	12°23'30	25°39'	26° 0'	8°13'	25°11'	22°33'	6°19'	17°44'	10° 9'	19°47'	9°41'	11° 3'	6°47'	29°48'	M26
T 27	4 56 11	13°24'33	10°14'	27°27'	9°27'	25°58'	22°46'	6°15'	17°46'	10° 8'	19°45'	9°38'	11° 0'	6°53'	29°56'	T 27
W28	5 0 8	14°25'37	25°30'	28°56'	10°41'	26°45'	23° 0'	6°10'	17°48'	10° 6'	19°44'	9°36'	10°57'	7° 0'	0°10'	W28
T 29	5 4 4	15°26'41	10°50'	0°12'	11°54'	27°32'	23°14'	6° 6'	17°50'	10° 5'	19°43'	9°D35	10°53'	7° 7'	0°10'	T 29
F 30	5 8 1	16°27'46	24°57'	1°15'	13°18'	28°39'	23°12'	6°51'	17°52'	10°53'	19°42'	9°36'	10°50'	7°14'	0°17'	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	
T 1	16s59	24n17	0n47	12s12	1n34	1s28	1n48	24s47	1s24	22s38	0n15	22n34	0s44	16s25	0s43	22n16
F 2	17 16 22	4 0s28	11 45 1	47 1 55	1 49 24	45 1 24	22 40 0	14 22 34	0 44 16	25 0 43	22 16 0	49 16 11	6 59 23	4 22 57	17 25 16	12 3 24
S 3	17 32 18	40 1 39	11 23 1	59 2 22	1 51 24	42 1 24	22 41 0	14 22 34	0 44 16	24 0 43	22 16 0	49 16 11	6 59 23	4 22 57	17 27 16	14 3 24
S 4	17 49 14	26 2 43	11 8 2	9 2 49	1 52 24	39 1 24	22 42 0	14 22 34	0 44 16	24 0 43	22 16 0	49 16 11	6 59 23	4 22 57	17 29 16	16 3 24
M 5	18 5 9	41 3 36	10 58 2	16 3 16	1 53 24	36 1 24	22 44 0	14 22 34	0 44 16	24 0 43	22 16 0	49 16 11	6 59 23	4 22 57	17 31 16	17 3 24
T 6	18 21 4	40 4 18	10 53 2	22 3 44	1 54 24	33 1 23	22 45 0	14 22 34	0 44 16	24 0 43	22 16 0	49 16 11	6 59 23	4 22 58	17 33 16	19 3 24
W 7	18 36 0	26 4 48	10 54 2	26 4 11	1 55 24	29 1 23	22 46 0	14 22 35	0 44 16	23 0 43	22 16 0	49 16 11	6 59 23	4 22 58	17 35 16	20 3 24
T 8	18 52 5	27 5 4	10 59 2	29 4 38	1 56 24	25 1 23	22 47 0	14 22 35	0 44 16	23 0 43	22 16 0	49 16 11	6 59 23	5 22 58	17 37 16	22 3 25
F 9	19 6 10	13 5 7	11 8 2	30 5 5	1 56 24	21 1 23	22 49 0	14 22 35	0 44 16	23 0 43	22 17 0	49 16 11	6 59 23	6 22 59	17 39 16	23 3 25
S 10	19 21 14	35 4 57	11 21 2	30 5 32	1 57 24	16 1 23	22 50 0	14 22 35	0 44 16	22 0 43	22 17 0	49 16 11	6 59 23	6 22 59	17 41 16	24 3 25
S 11	19 35 18	24 4 34	11 38 2	29 5 59	1 57 24	11 1 23	22 51 0	13 22 35	0 44 16	22 0 43	22 17 0	49 16 11	6 59 23	7 22 59	17 43 16	26 3 25
M12	19 49 21	29 3 59	11 57 2	27 6 26	1 58 24	6 1 22	22 52 0	13 22 36	0 44 16	21 0 43	22 17 0	49 16 11	6 59 23	8 22 59	17 45 16	27 3 25
T 13	20 2 23	40 3 13	12 18 2	23 6 53	1 58 24	1 1 22	22 53 0	13 22 36	0 43 16	21 0 43	22 17 0	50 16 10	6 59 23	8 23 0	17 47 16	29 3 26
W14	20 15 24	47 2 19	12 41 2	20 7 20	1 58 23	55 1 22	22 54 0	13 22 36	0 43 16	21 0 43	22 17 0	50 16 10	6 59 23	9 23 0	17 49 16	30 3 26
T 15	20 28 24	44 1 17	13 6 2	15 7 47	1 59 23	50 1 22	22 56 0	13 22 36	0 43 16	20 0 43	22 17 0	50 16 10	6 59 23	9 23 0	17 51 16	32 3 26
F 16	20 40 23	28 0 11	13 32 2	10 8 13	1 59 23	43 1 21	22 57 0	13 22 37	0 43 16	20 0 43	22 17 0	50 16 10	6 59 23	9 23 1	17 53 16	33 3 26
S 17	20 52 21	3 0n56	14 0 2	5 8 40	1 59 23	37 1 21	22 58 0	13 22 37	0 43 16	19 0 43	22 17 0	50 16 10	6 59 23	9 23 1	17 54 16	35 3 26
S 18	21 4 17	36 2 2	14 28 1	59 9 6	1 58 23	30 1 21	22 59 0	13 22 37	0 43 16	19 0 43	22 17 0	50 16 10	6 59 23	9 23 1	17 56 16	36 3 27
M19	21 15 13	14 3 4	14 56 1	52 9 32	1 58 23	23 1 21	23 0 0	13 22 37	0 43 16	18 0 43	22 17 0	50 16 10	6 59 23	9 23 1	17 58 16	37 3 27
T 20	21 26 8	9 3 57	15 25 1	46 9 58	1 58 23	16 1 20	23 1 0	12 22 38	0 43 16	18 0 43	22 17 0	50 16 10	6 59 23	8 23 2	18 0 16	39 3 27
W21	21 36 2	34 4 38	15 54 1	39 10 24	1 57 23	9 1 20	23 2 0	12 22 38	0 43 16	17 0 43	22 18 0	50 16 10	6 59 23	8 23 2	18 2 16	40 3 27
T 22	21 46 3n18	5 4 16	23 1 32	10 49 1	57 23 1	1 20	23 3 0	12 22 38	0 43 16	17 0 42	22 18 0	50 16 10	6 59 23	9 23 2	18 4 16	41 3 28
F 23	21 55 9	8 5 13	16 52 1	25 11 15	1 56 22	53 1 20	23 4 0	12 22 38	0 43 16	16 0 42	22 18 0	50 16 10	6 59 23	9 23 2	18 6 16	43 3 28
S 24	22 4 14	37 5 1	17 21 1	18 11 40	1 56 22	44 1 19	23 5 0	12 22 39	0 43 16	15 0 42	22 18 0	50 16 10	6 59 23	9 23 3	18 8 16	44 3 28
S 25	22 13 19	18 4 29	17 49 1	11 12 5	1 55 22	36 1 19	23 6 0	12 22 39	0 43 16	15 0 42	22 18 0	50 16 10	6 59 23	9 23 3	18 10 16	45 3 28
M26	22 21 22	46 3 38	18 17 1	3 12 29	1 54 22	27 1 19	23 6 0	12 22 39	0 43 16	14 0 42	22 18 0	50 16 9	6 59 23	10 23 3	18 12 16	47 3 29
T 27	22 29 24	38 2 32	18 45 0	56 12 54	1 53 22	18 1 18	23 7 0	12 22 40	0 43 16	14 0 42	22 18 0	50 16 9	6 59 23	10 23 4	18 14 16	48 3 29
W28	22 36 24	43 1 17	19 12 0	48 13 18	1 52 22	9 1 18	23 8 0	12 22 40	0 43 16	13 0 42	22 18 0	50 16 9	6 59 23	10 23 4	18 15 16	49 3 29
T 29	22 43 23	6 0s 2	19 38 0	41 13 42	1 51 21	59 1 18	23 9 0	12 22 40	0 42 16	12 0 42	22 18 0	50 16 9	6 59 23	10 23 4	18 17 16	50 3 29
F 30	22s49	20n 3	1s19	20s 4	0n34	14s 5	1n50	21s50	1s17	23s10	0n11	22n40	0s42	16s12	0s42	22n19

Julian Day Number = 2237825.5, Delta T = 07m29s

Ecliptic obliquity = 23°30'57, Nutation = 0°00'15, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'38, Lahiri = 15°41'38 Julian Calendar 1 Nov. 1414 == Greg. Calendar 10 Nov. 1414

# ASTRODIENST EPHEMERIS for the year 1414

## geocentric

DECEMBER 1414 JC

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	5 11 57	17♂28'52	7♂47	3♂24	14♂22	29♂5	23♂41	5°R57	17♂54	10°R 2	19°R41	9♂37	10♂47	7♂20	0♂25	S 1
S 2	5 15 54	18°29'59	21° 0	4°54	15°36	29°52	23°55	5♂52	17°56	10♂0	19♂39	9°39	10°44	7°27	0°32	S 2
M 3	5 19 50	19°31'06	3♂49	6°25	16°50	0♂39	24° 9	5°47	17°58	9°59	19°38	9°40	10°41	7°34	0°39	M 3
T 4	5 23 47	20°32'14	16°18	7°56	18° 4	1°26	24°23	5°43	18° 1	9°57	19°37	9°R41	10°37	7°40	0°46	T 4
W 5	5 27 44	21°33'23	28°30	9°27	19°18	2°13	24°36	5°38	18° 3	9°56	19°36	9°41	10°34	7°47	0°53	W 5
T 6	5 31 40	22°34'33	10♂31	10°59	20°33	3° 0	24°50	5°33	18° 5	9°54	19°35	9°40	10°31	7°54	1° 1	T 6
F 7	5 35 37	23°35'43	22°24	12°30	21°47	3°47	25° 4	5°29	18° 7	9°52	19°34	9°38	10°28	8° 1	1° 8	F 7
S 8	5 39 33	24°36'54	4♂15	14° 2	23° 1	4°34	25°18	5°24	18°10	9°51	19°32	9°36	10°25	8° 7	1°15	S 8
S 9	5 43 30	25°38'05	16° 6	15°35	24°15	5°21	25°32	5°19	18°12	9°49	19°31	9°33	10°22	8°14	1°22	S 9
M10	5 47 26	26°39'17	28° 2	17° 7	25°29	6° 8	25°46	5°14	18°15	9°48	19°30	9°31	10°18	8°21	1°29	M10
T 11	5 51 23	27°40'29	10♂4	18°40	26°44	6°55	25°59	5° 9	18°17	9°46	19°29	9°29	10°15	8°27	1°36	T 11
W12	5 55 19	28°41'42	22°15	20°13	27°58	7°42	26°13	5° 4	18°19	9°44	19°28	9°28	10°12	8°34	1°43	W12
T 13	5 59 16	29°42'54	4♂36	21°47	29°12	8°29	26°27	4°59	18°22	9°43	19°26	9°D28	10° 9	8°41	1°49	T 13
F 14	6 3 13	0♂44'07	17° 8	23°20	0♂27	9°16	26°41	4°54	18°25	9°41	19°25	9°28	10° 6	8°47	1°56	F 14
S 15	6 7 9	1°45'20	29°52	24°54	1°41	10° 3	26°55	4°49	18°27	9°39	19°24	9°28	10° 3	8°54	2° 3	S 15
S 16	6 11 6	2°46'33	12♂50	26°28	2°56	10°50	27° 9	4°44	18°30	9°38	19°23	9°29	9°59	9° 1	2°10	S 16
M17	6 15 2	3°47'45	26° 0	28° 3	4°10	11°37	27°22	4°39	18°33	9°36	19°22	9°30	9°56	9° 8	2°17	M17
T 18	6 18 59	4°48'57	9♂25	29°38	5°25	12°24	27°36	4°34	18°35	9°34	19°21	9°30	9°53	9°14	2°23	T 18
W19	6 22 55	5°50'09	23° 5	1♂13	6°39	13°11	27°50	4°29	18°38	9°32	19°20	9°31	9°50	9°21	2°30	W19
T 20	6 26 52	6°51'20	6♂59	2°49	7°54	13°58	28° 4	4°24	18°41	9°31	19°18	9°R31	9°47	9°28	2°36	T 20
F 21	6 30 48	7°52'31	21° 7	4°25	9° 8	14°45	28°18	4°19	18°44	9°29	19°17	9°31	9°43	9°34	2°43	F 21
S 22	6 34 45	8°53'42	5♂27	6° 2	10°23	15°32	28°31	4°14	18°46	9°27	19°16	9°30	9°40	9°41	2°49	S 22
S 23	6 38 42	9°54'52	19°57	7°38	11°37	16°20	28°45	4° 9	18°49	9°26	19°15	9°D30	9°37	9°48	2°56	S 23
M24	6 42 38	10°56'01	4♂32	9°16	12°52	17° 7	28°59	4° 5	18°52	9°24	19°14	9°31	9°34	9°55	3° 2	M24
T 25	6 46 35	11°57'10	19° 7	10°54	14° 6	17°54	29°12	4° 0	18°55	9°22	19°13	9°31	9°31	10° 1	3° 9	T 25
W26	6 50 31	12°58'19	3♂35	12°32	15°21	18°41	29°26	3°55	18°58	9°21	19°12	9°R31	9°28	10° 8	3°15	W26
T 27	6 54 28	13°59'27	17°51	14°10	16°35	19°28	29°40	3°50	19° 1	9°19	19°11	9°31	9°24	10°15	3°21	T 27
F 28	6 58 24	15° 0'35	1♂50	15°50	17°50	20°15	29°53	3°45	19° 4	9°17	19°10	9°31	9°21	10°21	3°27	F 28
S 29	7 2 21	16° 1'42	15°28	17°29	19° 5	21° 2	0♂ 7	3°40	19° 7	9°15	19° 9	9°30	9°18	10°28	3°34	S 29
S 30	7 6 18	17° 2'49	28°44	19° 9	20°19	21°49	0°21	3°35	19°10	9°14	19° 8	9°29	9°15	10°35	3°40	S 30
M31	7 10 14	18♂3'55	11♂38	20♂50	21♂34	22♂36	0♂34	3♂31	19♂13	9♂12	19♂7	9♂28	9♂12	10♂41	3♂46	M31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	22s55	15n59	2s29	20s28	0n26	14s28	1n49	21s40	1s17	23s11	0n11	22n41	0s42	16s11	0s42	22n19	0s50
S 2	23 1	11 15	3 29	20 52	0 19	14 51	1 47	21 29	1 17	23 11	0 11	22 41	0 42	16 10	0 42	22 19	0 50
M 3	23 6	6 9	4 16	21 16	0 12	15 13	1 46	21 19	1 16	23 12	0 11	22 41	0 42	16 10	0 42	22 19	0 50
T 4	23 11	0 58	4 50	21 38	0 4	15 36	1 45	21 8	1 16	23 13	0 11	22 41	0 42	16 9	0 42	22 19	0 50
W 5	23 15	4s 8	5 10	21 59	0s 3	15 57	1 43	20 57	1 15	23 13	0 11	22 42	0 42	16 8	0 42	22 19	0 50
T 6	23 18	9 0	5 16	22 19	0 10	16 19	1 42	20 46	1 15	23 14	0 11	22 42	0 42	16 8	0 42	22 19	0 50
F 7	23 22	13 30	5 8	22 38	0 17	16 39	1 40	20 35	1 15	23 15	0 11	22 42	0 42	16 7	0 42	22 19	0 50
S 8	23 24	17 28	4 47	22 57	0 23	17 0	1 38	20 23	1 14	23 15	0 11	22 43	0 42	16 6	0 42	22 19	0 50
S 9	23 27	20 45	4 14	23 14	0 30	17 20	1 37	20 11	1 14	23 16	0 11	22 43	0 42	16 5	0 42	22 20	0 50
M10	23 28	23 11	3 30	23 30	0 36	17 40	1 35	19 59	1 13	23 16	0 10	22 43	0 42	16 5	0 42	22 20	0 50
T 11	23 30	24 36	2 36	23 44	0 43	17 59	1 33	19 47	1 13	23 17	0 10	22 43	0 41	16 4	0 42	22 20	0 50
W12	23 31	24 51	1 34	23 58	0 49	18 18	1 31	19 34	1 13	23 17	0 10	22 44	0 41	16 3	0 42	22 20	0 50
T 13	23 31	23 53	0 27	24 10	0 55	18 36	1 29	19 22	1 12	23 18	0 10	22 44	0 41	16 2	0 42	22 20	0 50
F 14	23 31	21 43	0n42	24 22	1 1	18 54	1 27	19 9	1 12	23 18	0 10	22 44	0 41	16 1	0 42	22 20	0 50
S 15	23 30	18 26	1 51	24 32	1 7	19 11	1 25	18 56	1 11	23 19	0 10	22 45	0 41	16 0	0 42	22 20	0 50
S 16	23 29	14 13	2 55	24 40	1 12	19 27	1 23	18 42	1 11	23 19	0 10	22 45	0 41	16 0	0 42	22 20	0 50
M17	23 28	9 16	3 51	24 47	1 17	19 44	1 21	18 29	1 10	23 20	0 10	22 45	0 41	15 59	0 42	22 21	0 50
T 18	23 26	3 49	4 35	24 53	1 22	19 59	1 18	18 15	1 10	23 20	0 10	22 45	0 41	15 58	0 42	22 21	0 50
W19	23 23	1n54	5 5	24 58	1 27	20 14	1 16	18 1	1 9	23 20	0 10	22 46	0 41	15 57	0 42	22 21	0 50
T 20	23 20	7 38	5 17	25 1	1 32	20 29	1 14	17 47	1 9	23 21	0 10	22 46	0 40	15 56	0 42	22 21	0 50
F 21	23 17	13 4	5 11	25 3	1 36	20 43	1 11	17 33	1 9	23 21	0 9	22 46	0 40	15 55	0 42	22 21	0 49
S 22	23 13	17 52	4 46	25 3	1 40	20 56	1 9	17 19	1 8	23 21	0 9	22 47	0 40	15 54	0 42	22 21	0 49
S 23	23 9	21 40	4 2	25 2	1 44	21 9	1 7	17 4	1 8	23 21	0 9	22 47	0 40	15 53	0 42	22 21	0 49
M24	23 4	24 6	3 2	24 59	1 48	21 21	1 4	16 49	1 7	23 22	0 9	22 47	0 40	15 53	0 42	22 22	0 49
T 25	22 59	24 55	1 51	24 55	1 51	21 33	1 2	16 34	1 7	23 22	0 9	22 47	0 40	15 52	0 42	22 22	0 49
W26	22 53	24 1	0 33	24 49	1 54	21 44	0 59	16 19	1 6	23 22	0 9	22 48	0 40	15 51	0 42	22 22	0 49
T 27	22 47	21 34	0s46	24 41	1 57	21 54	0 57	16 4	1 6	23 22	0 9	22 48	0 40	15 50	0 42	22 22	0 49
F 28	22 40	17 51	2 1	24 33	1 59	22 4	0 54	15 49	1 5	23 22	0 9	22 48	0 40	15 49	0 42	22 22	0 49
S 29	22 33	13 17	3 7	24 22	2 1	22 13	0 51	15 33	1 5	23 22	0 9	22 48	0 39	15 48	0 42	22 22	0 49
S 30	22 25	8 11	4 0	24 10	2 3	22 21	0 49	15 17	1 4	23 22	0 9	22 49	0 39	15 47	0 42	22 22	0 49
M31	22s18	2n54	4s40	23s56	2s 4	22s29	0n46	15s 2	1s 3	23s22	0n 9	22n49	0s39	15s46	0s42	22n22	0s49

Julian Day Number = 2237855.5, Delta T = 07m29s

Ecliptic obliquity = 23°30'56, Nutation = 0°00'16, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 16°34'42, Lahiri = 15°41'42 Julian Calendar 1 Dec. 1414 == Greg. Calendar 10 Dec. 1414