



# Astrodienst Ephemeris Tables for the year 1714

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 1714

## geocentric

JANUARY 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 40 57	10°31'8"46	12°56' 1	14°R41	15°38'38	10°25'25	9°22'22	11°R14	16°R29	4°R15	6°R16	17°R50	16°35'35	26°02' 3	17°33'32	M 1
T 2	6 44 53	11°19'54	24°12' 2	13°32'24	16°53' 8	11°12' 9	9°33'33	11°R13	16°R28	4°R14	6°R15	17°R47	16°32'26	26° 9' 9	17°36'36	T 2
W 3	6 48 50	12°21'03	6°02'15	12° 4' 4	18° 8' 8	11°59' 9	9°44'44	11°12' 1	16°27' 4	4°14' 6	6°14' 17	17°43' 16	16°29'26	26°16'16	17°39'39	W 3
T 4	6 52 47	13°22'12	18°12' 2	10°43' 19	23°12'46	9°55' 11	10°10' 16	16°27' 4	14°14' 6	17°39' 16	26°26' 26	26°23' 17	17°43' 17	17°43' 17	17°43' 17	T 4
F 5	6 56 43	14°23'21	0°17' 4	9°25' 20	38°13'34	10° 6' 11	9°16'26	4°13' 6	13°6'13	17°34' 16	23°26'29	17°47' 17	17°47' 17	17°47' 17	17°47' 17	F 5
S 6	7 0 40	15°24'29	11°55' 8	11° 21	53°14'21	10°17' 11	7°16'25	4°13' 6	12°6'12	17°29' 16	20°26°36	17°51' 17	17°51' 17	17°51' 17	17°51' 17	S 6
S 7	7 4 36	16°25'38	23°49' 7	4° 23	8°15° 8	10°28' 11	6°16°24	4°13' 6	11°6°11	17°26' 16	16°16°26	17°55' 17	17°55' 17	17°55' 17	17°55' 17	S 7
M 8	7 8 33	17°26'46	5°42'48	6° 5	24°23' 15	56°10°40	11° 4	16°23' 4	12°6°10	17°24' 16	13°16°30	17°59' 17	17°59' 17	17°59' 17	17°59' 17	M 8
T 9	7 12 29	18°27'55	17°58' 5	14°25'38	16°43' 10	51°10°51	11° 2	16°23' 4	12°6°9	17°D23' 16	10°16°56	18° 3	18° 3	18° 3	18° 3	T 9
W10	7 16 26	19°29'03	0°18'23	4°33' 26	53°17°30	11° 3	11° 0	16°22' 4	12°6°8	17°24' 16	7°27° 3	18° 7	18° 7	18° 7	18° 7	W10
T 11	7 20 22	20°30'11	13° 7	4° 2	28° 8	18°17' 11	14°10°58	16°20' 4	12°6°7	17°25' 16	4°27°10	18°11' 18	18°11' 18	18°11' 18	18°11' 18	T 11
F 12	7 24 19	21°31'19	26°16' 3	41°29°23	19° 5	11°26' 10	56°16°19	4°12' 6	6°6°17	27°16' 16	0°27°16	18°15' 18	18°15' 18	18°15' 18	18°15' 18	F 12
S 13	7 28 16	22°32'27	9°51' 3	29° 0	38°19°52	11°38' 10	53°16°18	4°12' 6	5°6°17	28°15°57	27°23' 18	18°19' 18	18°19' 18	18°19' 18	18°19' 18	S 13
S 14	7 32 12	23°33'34	23°54' 3	D25°1°53	20°39' 11	50°10°51	16°17' 4	D12°6°4	17°R28' 15	54°15°32	28°17' 18	18°52' 18	18°52' 18	18°52' 18	18°52' 18	S 14
M15	7 36 9	24°34'41	8°32'30	3° 8	21°27' 12	2°10°48	16°16' 4	12°6°3	17°26' 15	51°15°51	27°37' 18	18°27' 18	18°27' 18	18°27' 18	18°27' 18	M15
T 16	7 40 5	25°35'48	23°13' 3	43°4°23	22°14' 12	14°10°46	16°14' 4	12°6°2	17°23' 15	48°27°43	18°31' 18	18°31' 18	18°31' 18	18°31' 18	18°31' 18	T 16
W17	7 44 2	26°36'54	8°17' 4	3° 5	38°23° 1	12°26' 10	43°16°13	4°12' 6	1°17°18	15°45' 27	50°18°35	18°35' 18	18°35' 18	18°35' 18	18°35' 18	W17
T 18	7 47 58	27°37'59	23°24' 4	29°6°53	23°49' 12	39°10°40	16°12' 4	12°6°0	17°11' 15	41°15°41	27°57' 18	18°39' 18	18°39' 18	18°39' 18	18°39' 18	T 18
F 19	7 51 55	28°39'03	8°26' 5	1° 8	8°24°36	12°51' 10	37°16°10	4°12' 5	59°17° 5	15°38' 28	3°18°44	19° 9	19° 9	19° 9	19° 9	F 19
S 20	7 55 52	29°40'06	23°14' 5	38°9°23	25°23' 13	3°10°34	16° 9	4°12' 5	58°16°59	15°35' 28	10°18°48	18°48' 18	18°48' 18	18°48' 18	18°48' 18	S 20
S 21	7 59 48	0°41'08	7°40' 6	20°10°38	26°11' 13	16°10°31	16° 7	4°12' 5	56°16°55	15°32' 28	17°18°52	18°52' 18	18°52' 18	18°52' 18	18°52' 18	S 21
M22	8 3 45	1°42'09	21°42' 7	7° 11	53°26°58	13°29' 10	28°16° 5	4°13' 5	55°16°53	15°29' 28	24°18°56	18°56' 18	18°56' 18	18°56' 18	18°56' 18	M22
T 23	8 7 41	2°43'09	5°32'20	7°57' 13	8°27°45	13°41' 10	25°16° 4	4°13' 5	54°16°D52	15°26' 28	30°19° 0	19° 0	19° 0	19° 0	19° 0	T 23
W24	8 11 38	3°44'08	18°35' 8	51°14°23	28°32' 13	54°10°22	16° 2	4°13' 5	53°16°53	15°22' 28	37°19° 5	19° 5	19° 5	19° 5	19° 5	W24
T 25	8 15 34	4°45'05	1°11'30	9°49' 15	38°29°20	14° 7	10°18' 16	0°4°14	52°16°54	15°19' 28	44°19° 9	19° 9	19° 9	19° 9	19° 9	T 25
F 26	8 19 31	5°46'02	14° 8	10°49' 16	53°0°7	14°20' 10	15°15°59	4°14' 5	50°16°R55	15°16' 28	50°19°13	19°13' 19	19°13' 19	19°13' 19	19°13' 19	F 26
S 27	8 23 27	6°46'57	26°33' 11	52°18° 8	0°54' 14	33°10°11	15°57' 4	14'4°14	49°16°55	15°13' 28	57°19°18	19°18' 19	19°18' 19	19°18' 19	19°18' 19	S 27
S 28	8 27 24	7°47'51	8°48'48	12°57' 19	23°1°41	46°14°46	10° 8	15°55' 4	15°48' 16	52°15°10	29° 4	19°22' 19	19°22' 19	19°22' 19	19°22' 19	S 28
M29	8 31 21	8°48'43	20°54' 14	5°20°38	2°29' 14	59°10°4	15°53' 4	15°46' 16	47°15° 6	29°11' 19	26°19°26	19°26' 19	19°26' 19	19°26' 19	19°26' 19	M29
T 30	8 35 17	9°49'35	22°55' 15	15°21°53	3°16' 15	12°10°0	15°51' 4	16°5°45	16°40' 15	3°29°17	19°31' 19	19°31' 19	19°31' 19	19°31' 19	19°31' 19	T 30
W31	8 39 14	10°50'25	14°02'52	16°32'27	23°38' 4	25°15°15	25'9°15	15°48' 15	49°16°55	15°13' 28	57°19°18	19°18' 19	19°18' 19	19°18' 19	19°18' 19	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
M 1	23s 4	20n47	2s 9	20s24	2n17	21s48	0n54	18s46	1s10	9s 8	1s 9	9n 5	1n52	6n 4	0n47	M 1
T 2	23 0	18 15	3 7	20 16	2 33	21 58	0 51	18 33	1 9	9 4	1 9	9 6	1 52	6 5	0 47	T 2
W 3	22 54	14 56	3 55	20 9	2 47	22 8	0 49	18 20	1 9	9 0	1 9	9 7	1 52	6 5	0 47	W 3
T 4	22 48	11 4	4 33	20 4	2 59	22 17	0 46	18 6	1 9	8 55	1 9	9 7	1 53	6 5	0 48	T 4
F 5	22 42	6 48	4 59	20 1	3 8	22 25	0 44	17 52	1 8	8 51	1 9	9 8	1 53	6 6	0 48	F 5
S 6	22 35	2 18	5 11	19 58	3 15	22 32	0 41	17 38	1 8	8 47	1 8	9 9	1 53	6 6	0 48	S 6
S 7	22 28	2s18	5 11	19 58	3 20	22 39	0 39	17 24	1 8	8 42	1 8	9 10	1 53	6 6	0 48	S 7
M 8	22 20	6 51	4 57	19 59	3 22	22 45	0 36	17 9	1 7	8 38	1 8	9 11	1 54	6 7	0 48	M 8
T 9	22 12	11 12	4 30	20 1	3 22	22 51	0 34	16 55	1 7	8 33	1 8	9 12	1 54	6 7	0 48	T 9
W10	22 4	15 12	3 49	20 5	3 19	22 55	0 31	16 40	1 7	8 29	1 8	9 13	1 54	6 7	0 48	W10
T 11	21 55	18 36	2 57	20 9	3 16	22 59	0 28	16 25	1 6	8 24	1 8	9 14	1 54	6 8	0 48	T 11
F 12	21 45	21 11	1 53	20 15	3 10	23 3	0 26	16 10	1 6	8 20	1 8	9 15	1 55	6 8	0 48	F 12
S 13	21 35	22 39	0 41	20 22	3 4	23 5	0 23	15 55	1 6	8 15	1 8	9 16	1 55	6 9	0 48	S 13
S 14	21 25	22 45	0n35	20 30	2 56	23 7	0 20	15 39	1 5	8 10	1 7	9 17	1 55	6 9	0 48	S 14
M15	21 14	21 21	1 51	20 38	2 48	23 9	0 18	15 24	1 5	8 6	1 7	9 18	1 55	6 10	0 48	M15
T 16	21 3	18 29	3 2	20 46	2 39	23 9	0 15	15 8	1 4	8 1	1 7	9 19	1 56	6 10	0 48	T 16
W17	20 52	14 21	4 1	20 55	2 30	23 9	0 12	14 52	1 4	7 56	1 7	9 21	1 56	6 11	0 48	W17
T 18	20 40	9 16	4 43	21 4	2 20	23 8	0 10	14 36	1 4	7 51	1 7	9 22	1 56	6 12	0 48	T 18
F 19	20 28	3 41	5 6	21 13	2 10	23 6	0 7	14 20	1 3	7 47	1 7	9 23	1 56	6 12	0 48	F 19
S 20	20 15	2n 1	5 8	21 22	2 0	23 4	0 5	14 4	1 3	7 42	1 7	9 25	1 56	6 13	0 48	S 20
S 21	20 2	7 29	4 49	21 30	1 49	23 1	0 2	13 47	1 2	7 37	1 7	9 26	1 57	6 13	0 48	S 21
M22	19 49	12 24	4 14	21 38	1 39	22 57	0s 1	13 31	1 2	7 32	1 7	9 27	1 57	6 14	0 48	M22
T 23	19 35	16 33	3 26	21 46	1 29	22 53	0 3	13 14	1 1	7 27	1 7	9 29	1 57	6 15	0 48	T 23
W24	19 21	19 44	2 27	21 53	1 18	22 48	0 6	12 57	1 1	7 22	1 6	9 30	1 57	6 15	0 48	W24
T 25	19 6	21 50	1 22	21 59	1 8	22 42	0 8	12 40	1 1	7 17	1 6	9 32	1 57	6 16	0 48	T 25
F 26	18 52	22 47	0 15	22 4	0 58	22 35	0 11	12 23	1 0	7 12	1 6	9 33	1 58	6 17	0 48	F 26
S 27	18 36	22 34	0s52	22 9	0 48	22 28	0 14	12 6	1 0	7 7	1 6	9 35	1 58	6 18	0 48	S 27
S 28	18 21	21 16	1 55	22 12	0 38	22 20	0 16	11 49	0 59	7 2	1 6	9 36	1 58	6 18	0 48	S 28
M29	18 5	19 1	2 52	22 15	0 29	22 12	0 19	11 31	0 59	6 56	1 6	9 38	1 58	6 19	0 48	M29
T 30	17 49	15 57	3 41	22 17	0 20	22 2	0 21	11 14	0 58	6 51	1 6	9 39	1 58	6 20	0 48	T 30
W31	17s32	12n15	4s20	22s17	0n10	21s53	0s23	10s56	0s58	6s46	1s 6	9n41	1n59	6n21	0n48	W31

Julian Day Number = 2347085.5, Delta T = 10.91 sec  
 Ecliptic obliquity = 23°28'33", Nutation = 0°00'17", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 20°44'52", Lahiri = 19°51'52Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

FEBRUARY 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 10	11°51'14	26°46	17°34	24°23	4°50	15°38	9°R52	15°R47	4°17	5°R42	16°R19	14°57	29°23	19°39	T 1
F 2	8 47 7	12°52'02	8°38	18°55	25°38	5°37	15°52	9°49	15°45	4°18	5°41	16°7	14°54	29°37	19°44	F 2
S 3	8 51 3	13°52'49	20°30	20°12	26°53	6°24	16°5	9°45	15°43	4°18	5°39	15°56	14°51	29°44	19°48	S 3
S 4	8 55 0	14°53'35	2°25	21°30	28°8	7°11	16°19	9°40	15°41	4°19	5°38	15°47	14°47	29°51	19°52	S 4
M 5	8 58 56	15°54'19	14°25	22°49	29°22	7°59	16°32	9°36	15°39	4°20	5°37	15°40	14°44	29°58	19°57	M 5
T 6	9 2 53	16°55'03	26°33	24°10	0°37	8°46	16°46	9°32	15°37	4°20	5°35	15°35	14°41	0°4	20°1	T 6
W 7	9 6 50	17°55'45	8°54	25°32	1°52	9°33	16°59	9°28	15°35	4°21	5°34	15°33	14°38	0°11	20°6	W 7
T 8	9 10 46	18°56'27	21°33	26°55	3°7	10°20	17°13	9°23	15°32	4°22	5°32	15°D32	14°35	0°18	20°10	T 8
F 9	9 14 43	19°57'07	4°33	28°19	4°22	11°7	17°27	9°19	15°30	4°23	5°31	15°33	14°32	0°24	20°14	F 9
S 10	9 18 39	20°57'46	17°59	29°45	5°37	11°54	17°40	9°15	15°28	4°24	5°29	15°R33	14°28	0°31	20°19	S 10
S 11	9 22 36	21°58'25	1°54	1°11	6°52	12°41	17°54	9°10	15°25	4°25	5°28	15°32	14°25	0°38	20°23	S 11
M 12	9 26 32	22°59'01	16°18	2°39	8°7	13°28	18°8	9°6	15°23	4°26	5°26	15°29	14°22	0°45	20°27	M 12
T 13	9 30 29	23°59'37	1°8	4°7	9°22	14°15	18°22	9°1	15°21	4°27	5°25	15°22	14°19	0°51	20°32	T 13
W 14	9 34 25	25°0'11	16°19	5°37	10°37	15°1	18°36	8°57	15°18	4°28	5°23	15°14	14°16	0°58	20°36	W 14
T 15	9 38 22	26°0'44	1°39	7°7	11°52	15°48	18°50	8°52	15°16	4°29	5°22	15°3	14°12	1°5	20°41	T 15
F 16	9 42 19	27°1'15	16°58	8°39	13°7	16°35	19°4	8°47	15°14	4°30	5°20	14°53	14°9	1°12	20°45	F 16
S 17	9 46 15	28°1'44	2°4	10°11	14°22	17°22	19°18	8°43	15°11	4°31	5°19	14°43	14°6	1°18	20°49	S 17
S 18	9 50 12	29°2'11	16°47	11°44	15°37	18°9	19°32	8°38	15°9	4°32	5°17	14°35	14°3	1°25	20°54	S 18
M 19	9 54 8	0°236	1°4	13°19	16°52	18°55	19°46	8°33	15°6	4°33	5°15	14°29	14°0	1°32	20°58	M 19
T 20	9 58 5	1°3'00	14°51	14°54	18°7	19°42	20°0	8°29	15°4	4°34	5°14	14°26	13°57	1°38	21°2	T 20
W 21	10 2 1	2°3'22	28°9	16°30	19°22	20°29	20°14	8°24	15°1	4°36	5°12	14°D25	13°53	1°45	21°7	W 21
T 22	10 5 58	3°3'41	11°3	18°8	20°37	21°16	20°29	8°19	14°59	4°37	5°11	14°R25	13°50	1°52	21°11	T 22
F 23	10 9 54	4°3'59	23°36	19°46	21°51	22°2	20°43	8°14	14°56	4°38	5°9	14°25	13°47	1°59	21°15	F 23
S 24	10 13 51	5°4'15	5°53	21°25	23°6	22°49	20°57	8°9	14°53	4°40	5°8	14°23	13°44	2°5	21°20	S 24
S 25	10 17 48	6°4'28	17°59	23°5	24°21	23°35	21°12	8°5	14°51	4°41	5°6	14°19	13°41	2°12	21°24	S 25
M 26	10 21 44	7°4'40	29°57	24°47	25°36	24°22	21°26	8°0	14°48	4°42	5°5	14°12	13°37	2°19	21°28	M 26
T 27	10 25 41	8°4'49	11°51	26°29	26°51	25°8	21°40	7°55	14°46	4°44	5°3	14°2	13°34	2°25	21°32	T 27
W 28	10 29 37	9°4'57	23°43	28°12	28°6	25°55	21°55	7°50	14°43	4°45	5°1	13°50	13°31	2°32	21°37	W 28

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	17s16	8n 7	4s47	22s17	0n 2	21s42	0s26	10s39	0s57	6s41	1s 6	9n43	1n59	6n21	0n49	11n17	1s47	21n50	13n23	22s46	22s37	7n 1	9s 9	6n 6			
F 2	16 59	3 41	5 2	22 15	0s 7	21 31	0 28	10 21	0 57	6 36	1 6	9 44	1 59	6 22	0 49	11 17	1 47	21 50	13 23	22 45	22 37	6 58	9 8	6 6			
S 3	16 41	0s53	5 3	22 13	0 16	21 19	0 31	10 3	0 56	6 30	1 6	9 46	1 59	6 23	0 49	11 18	1 47	21 51	13 24	22 44	22 37	6 56	9 6	6 6			
S 4	16 24	5 25	4 52	22 9	0 24	21 6	0 33	9 45	0 56	6 25	1 6	9 48	1 59	6 24	0 49	11 18	1 47	21 52	13 24	22 43	22 36	6 53	9 5	6 6			
M 5	16 6	9 47	4 27	22 4	0 32	20 53	0 35	9 27	0 55	6 20	1 6	9 49	2 0	6 25	0 49	11 18	1 47	21 53	13 24	22 42	22 36	6 50	9 4	6 6			
T 6	15 47	13 50	3 50	21 58	0 39	20 39	0 37	9 9	0 55	6 14	1 5	9 51	2 0	6 26	0 49	11 18	1 47	21 53	13 24	22 42	22 36	6 48	9 2	6 6			
W 7	15 29	17 22	3 2	21 50	0 47	20 25	0 40	8 51	0 54	6 9	1 5	9 53	2 0	6 27	0 49	11 19	1 47	21 54	13 25	22 41	22 35	6 45	9 1	6 6			
T 8	15 10	20 11	2 4	21 41	0 54	20 10	0 42	8 32	0 54	6 4	1 5	9 55	2 0	6 27	0 49	11 19	1 47	21 55	13 25	22 41	22 35	6 43	9 0	6 6			
F 9	14 51	22 2	0 58	21 31	1 1	19 54	0 44	8 14	0 53	5 58	1 5	9 57	2 0	6 28	0 49	11 19	1 47	21 56	13 25	22 41	22 35	6 40	8 59	6 5			
S 10	14 32	22 43	0n13	21 20	1 7	19 38	0 46	7 56	0 53	5 53	1 5	9 58	2 0	6 29	0 49	11 20	1 47	21 56	13 25	22 41	22 34	6 38	8 57	6 5			
S 11	14 12	22 2	1 26	21 7	1 14	19 22	0 48	7 37	0 52	5 47	1 5	10 0	2 0	6 30	0 49	11 20	1 47	21 57	13 25	22 41	22 34	6 35	8 56	6 5			
M 12	13 53	19 54	2 36	20 53	1 20	19 4	0 50	7 19	0 52	5 42	1 5	10 2	2 1	6 31	0 49	11 21	1 47	21 58	13 25	22 41	22 34	6 33	8 55	6 5			
T 13	13 33	16 24	3 37	20 38	1 25	18 46	0 52	7 0	0 51	5 36	1 5	10 4	2 1	6 32	0 49	11 21	1 47	21 59	13 26	22 40	22 33	6 30	8 53	6 5			
W 14	13 12	11 46	4 25	20 22	1 31	18 28	0 54	6 41	0 51	5 31	1 5	10 6	2 1	6 33	0 49	11 21	1 47	21 59	13 26	22 39	22 33	6 28	8 52	6 5			
T 15	12 52	6 20	4 54	20 4	1 36	18 9	0 56	6 23	0 50	5 25	1 5	10 8	2 1	6 34	0 49	11 22	1 46	22 0	13 26	22 38	22 32	6 25	8 51	6 5			
F 16	12 31	0 32	5 1	19 45	1 40	17 50	0 58	6 4	0 50	5 20	1 5	10 9	2 1	6 35	0 49	11 22	1 46	22 1	13 26	22 37	22 32	6 23	8 49	6 5			
S 17	12 11	5n13	4 48	19 24	1 45	17 30	1 0	5 45	0 49	5 14	1 5	10 11	2 1	6 36	0 49	11 23	1 46	22 1	13 26	22 36	22 32	6 20	8 48	6 5			
S 18	11 50	10 32	4 16	19 2	1 49	17 9	1 1	5 26	0 49	5 9	1 5	10 13	2 1	6 37	0 49	11 23	1 46	22 2	13 26	22 35	22 31	6 17	8 47	6 5			
M 19	11 28	15 7	3 28	18 39	1 53	16 48	1 3	5 7	0 48	5 3	1 5	10 15	2 2	6 38	0 49	11 23	1 46	22 3	13 26	22 34	22 31	6 15	8 45	6 5			
T 20	11 7	18 42	2 30	18 14	1 56	16 27	1 5	4 49	0 47	4 57	1 5	10 17	2 2	6 39	0 49	11 24	1 46	22 3	13 26	22 34	22 31	6 12	8 44	6 5			
W 21	10 46	21 10	1 25	17 48	1 59	16 5	1 6	4 30	0 47	4 52	1 5	10 19	2 2	6 40	0 49	11 24	1 46	22 4	13 27	22 34	22 30	6 10	8 42	6 5			
T 22	10 24	22 26	0 18	17 21	2 2	15 43	1 8	4 11	0 46	4 46	1 5	10 21	2 2	6 41	0 49	11 25	1 46	22 5	13 27	22 34	22 30	6 7	8 41	6 5			
F 23	10 2	22 31	0s48	16 52	2 4	15 20	1 9	3 52	0 46	4 41	1 5	10 23	2 2	6 42	0 49	11 25	1 46	22 5	13 27	22 34	22 29	6 5	8 40	6 5			
S 24	9 40	21 30	1 51	16 22	2 6	14 57	1 11	3 33	0 45	4 35	1 5	10 25	2 2	6 43	0 49	11 26	1 46	22 6	13 27	22 34	22 29	6 2	8 38	6 6			
S 25	9 18	19 30	2 47	15 51	2 7	14 33	1 12	3 14	0 45	4 29	1 5	10 26	2 2	6 44	0 49	11 26	1 46	22 7	13 27	22 33	22 29	6 0	8 37	6 6			
M 26	8 56	16 41	3 36	15 18	2 8	14 9	1 13	2 55	0 44	4 24	1 5	10 28	2 2	6 45	0 49	11 27	1 46	22 7	13 27	22 32	22 28	5 57	8 36	6 6			
T 27	8 33	13 11	4 14	14 43	2 9	13 45	1 15	2 36	0 43	4 18	1 5	10 30	2 2	6 46	0 49	11 27	1 46	22 8	13 27	22 31	22 28	5 55	8 34	6 6			
W 28	8s11	9n12	4s41	14s 8	2s 9	13s20	1s16	2s17	0s43	4s12	1s 5	10n32	2n 2	6n47	0n49	11n28	1s46	22n 9	13n27	22s30	22s27	5n52	8s33	6n 6			

Julian Day Number = 2347116.5, Delta T = 10.90 sec

Ecliptic obliquity = 23°28'33", Nutation = 0°00'18", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°44'56", Lahiri = 19°51'57"Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

MARCH 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 33 34	10 <sup>h</sup> 5'03	5 <sup>m</sup> 36	29 <sup>s</sup> 57	29 <sup>s</sup> 20	26 <sup>h</sup> 41	22 <sup>h</sup> 9	7 <sup>h</sup> R45	14 <sup>h</sup> R40	4 <sup>h</sup> 47	5 <sup>h</sup> R 0	13 <sup>h</sup> R36	13 <sup>h</sup> 28	2 <sup>h</sup> 39	21 <sup>h</sup> 41	T 1
F 2	10 37 30	11 <sup>h</sup> 5'06	17 <sup>m</sup> 29	1 <sup>h</sup> 42	0 <sup>h</sup> 35	27 <sup>h</sup> 28	22 <sup>h</sup> 23	7 <sup>h</sup> 41	14 <sup>h</sup> 38	4 <sup>h</sup> 48	4 <sup>h</sup> 58	13 <sup>h</sup> 21	13 <sup>h</sup> 25	2 <sup>h</sup> 46	21 <sup>h</sup> 45	F 2
S 3	10 41 27	12 <sup>h</sup> 5'08	29 <sup>m</sup> 25	3 <sup>h</sup> 29	1 <sup>h</sup> 50	28 <sup>h</sup> 14	22 <sup>h</sup> 38	7 <sup>h</sup> 36	14 <sup>h</sup> 35	4 <sup>h</sup> 49	4 <sup>h</sup> 57	13 <sup>h</sup> 6	13 <sup>h</sup> 22	2 <sup>h</sup> 52	21 <sup>h</sup> 49	S 3
S 4	10 45 23	13 <sup>h</sup> 5'08	11 <sup>h</sup> 26	5 <sup>h</sup> 17	3 <sup>h</sup> 5	29 <sup>h</sup> 0	22 <sup>h</sup> 52	7 <sup>h</sup> 31	14 <sup>h</sup> 33	4 <sup>h</sup> 51	4 <sup>h</sup> 55	12 <sup>h</sup> 54	13 <sup>h</sup> 18	2 <sup>h</sup> 59	21 <sup>h</sup> 53	S 4
M 5	10 49 20	14 <sup>h</sup> 5'07	23 <sup>m</sup> 31	7 <sup>h</sup> 6	4 <sup>h</sup> 20	29 <sup>h</sup> 47	23 <sup>h</sup> 7	7 <sup>h</sup> 26	14 <sup>h</sup> 30	4 <sup>h</sup> 53	4 <sup>h</sup> 54	12 <sup>h</sup> 44	13 <sup>h</sup> 15	3 <sup>h</sup> 6	21 <sup>h</sup> 57	M 5
T 6	10 53 16	15 <sup>h</sup> 5'03	5 <sup>m</sup> 45	8 <sup>h</sup> 56	5 <sup>h</sup> 34	0 <sup>h</sup> 33	23 <sup>h</sup> 21	7 <sup>h</sup> 21	14 <sup>h</sup> 27	4 <sup>h</sup> 54	4 <sup>h</sup> 52	12 <sup>h</sup> 37	13 <sup>h</sup> 12	3 <sup>h</sup> 13	22 <sup>h</sup> 1	T 6
W 7	10 57 13	16 <sup>h</sup> 4'58	18 <sup>m</sup> 10	10 <sup>h</sup> 47	6 <sup>h</sup> 49	1 <sup>h</sup> 19	23 <sup>h</sup> 36	7 <sup>h</sup> 17	14 <sup>h</sup> 25	4 <sup>h</sup> 56	4 <sup>h</sup> 51	12 <sup>h</sup> 33	13 <sup>h</sup> 9	3 <sup>h</sup> 19	22 <sup>h</sup> 6	W 7
T 8	11 1 10	17 <sup>h</sup> 4'51	0 <sup>h</sup> 48	12 <sup>h</sup> 39	8 <sup>h</sup> 4	2 <sup>h</sup> 5	23 <sup>h</sup> 50	7 <sup>h</sup> 12	14 <sup>h</sup> 22	4 <sup>h</sup> 57	4 <sup>h</sup> 49	12 <sup>h</sup> 31	13 <sup>h</sup> 6	3 <sup>h</sup> 26	22 <sup>h</sup> 10	T 8
F 9	11 5 6	18 <sup>h</sup> 4'43	13 <sup>m</sup> 45	14 <sup>h</sup> 32	9 <sup>h</sup> 19	2 <sup>h</sup> 51	24 <sup>h</sup> 5	7 <sup>h</sup> 7	14 <sup>h</sup> 20	4 <sup>h</sup> 59	4 <sup>h</sup> 48	12 <sup>h</sup> 31	13 <sup>h</sup> 3	3 <sup>h</sup> 33	22 <sup>h</sup> 14	F 9
S 10	11 9 3	19 <sup>h</sup> 4'33	27 <sup>m</sup> 4	16 <sup>h</sup> 27	10 <sup>h</sup> 33	3 <sup>h</sup> 37	24 <sup>h</sup> 19	7 <sup>h</sup> 3	14 <sup>h</sup> 17	5 <sup>h</sup> 1	4 <sup>h</sup> 46	12 <sup>h</sup> 31	12 <sup>h</sup> 59	3 <sup>h</sup> 39	22 <sup>h</sup> 18	S 10
S 11	11 12 59	20 <sup>h</sup> 4'21	10 <sup>h</sup> 38	18 <sup>m</sup> 22	11 <sup>h</sup> 48	4 <sup>h</sup> 23	24 <sup>h</sup> 34	6 <sup>h</sup> 58	14 <sup>h</sup> 14	5 <sup>h</sup> 2	4 <sup>h</sup> 45	12 <sup>h</sup> 29	12 <sup>h</sup> 56	3 <sup>h</sup> 46	22 <sup>h</sup> 22	S 11
M 12	11 16 56	21 <sup>h</sup> 4'08	24 <sup>m</sup> 59	20 <sup>m</sup> 19	13 <sup>h</sup> 3	5 <sup>h</sup> 9	24 <sup>h</sup> 48	6 <sup>h</sup> 53	14 <sup>h</sup> 12	5 <sup>h</sup> 4	4 <sup>h</sup> 43	12 <sup>h</sup> 26	12 <sup>h</sup> 53	3 <sup>h</sup> 53	22 <sup>h</sup> 26	M 12
T 13	11 20 52	22 <sup>h</sup> 3'53	9 <sup>m</sup> 36	22 <sup>m</sup> 16	14 <sup>h</sup> 17	5 <sup>h</sup> 55	25 <sup>h</sup> 3	6 <sup>h</sup> 49	14 <sup>h</sup> 9	5 <sup>h</sup> 6	4 <sup>h</sup> 42	12 <sup>h</sup> 20	12 <sup>h</sup> 50	4 <sup>h</sup> 0	22 <sup>h</sup> 30	T 13
W 14	11 24 49	23 <sup>h</sup> 3'36	24 <sup>m</sup> 34	24 <sup>m</sup> 15	15 <sup>h</sup> 32	6 <sup>h</sup> 41	25 <sup>h</sup> 17	6 <sup>h</sup> 44	14 <sup>h</sup> 7	5 <sup>h</sup> 8	4 <sup>h</sup> 40	12 <sup>h</sup> 11	12 <sup>h</sup> 47	4 <sup>h</sup> 6	22 <sup>h</sup> 34	W 14
T 15	11 28 45	24 <sup>h</sup> 3'17	9 <sup>m</sup> 47	26 <sup>m</sup> 14	16 <sup>h</sup> 47	7 <sup>h</sup> 27	25 <sup>h</sup> 32	6 <sup>h</sup> 40	14 <sup>h</sup> 4	5 <sup>h</sup> 9	4 <sup>h</sup> 39	12 <sup>h</sup> 1	12 <sup>h</sup> 43	4 <sup>h</sup> 13	22 <sup>h</sup> 37	T 15
F 16	11 32 42	25 <sup>h</sup> 2'56	25 <sup>m</sup> 4	28 <sup>m</sup> 14	18 <sup>h</sup> 1	8 <sup>h</sup> 13	25 <sup>h</sup> 46	6 <sup>h</sup> 35	14 <sup>h</sup> 1	5 <sup>h</sup> 11	4 <sup>h</sup> 37	11 <sup>h</sup> 50	12 <sup>h</sup> 40	4 <sup>h</sup> 20	22 <sup>h</sup> 41	F 16
S 17	11 36 39	26 <sup>h</sup> 2'33	10 <sup>h</sup> 12	0 <sup>h</sup> 14	19 <sup>h</sup> 16	8 <sup>h</sup> 59	26 <sup>h</sup> 1	6 <sup>h</sup> 31	13 <sup>h</sup> 59	5 <sup>h</sup> 13	4 <sup>h</sup> 36	11 <sup>h</sup> 39	12 <sup>h</sup> 37	4 <sup>h</sup> 26	22 <sup>h</sup> 45	S 17
S 18	11 40 35	27 <sup>h</sup> 2'08	25 <sup>m</sup> 3	2 <sup>h</sup> 15	20 <sup>h</sup> 31	9 <sup>h</sup> 45	26 <sup>h</sup> 15	6 <sup>h</sup> 27	13 <sup>h</sup> 56	5 <sup>h</sup> 15	4 <sup>h</sup> 34	11 <sup>h</sup> 31	12 <sup>h</sup> 34	4 <sup>h</sup> 33	22 <sup>h</sup> 49	S 18
M 19	11 44 32	28 <sup>h</sup> 1'41	9 <sup>m</sup> 39	4 <sup>h</sup> 16	21 <sup>h</sup> 45	10 <sup>h</sup> 30	26 <sup>h</sup> 30	6 <sup>h</sup> 22	13 <sup>h</sup> 54	5 <sup>h</sup> 17	4 <sup>h</sup> 33	11 <sup>h</sup> 25	12 <sup>h</sup> 31	4 <sup>h</sup> 40	22 <sup>h</sup> 53	M 19
T 20	11 48 28	29 <sup>h</sup> 1'12	23 <sup>m</sup> 25	6 <sup>h</sup> 17	23 <sup>h</sup> 0	11 <sup>h</sup> 16	26 <sup>h</sup> 45	6 <sup>h</sup> 18	13 <sup>h</sup> 51	5 <sup>h</sup> 19	4 <sup>h</sup> 32	11 <sup>h</sup> 21	12 <sup>h</sup> 28	4 <sup>h</sup> 47	22 <sup>h</sup> 56	T 20
W 21	11 52 25	0 <sup>h</sup> 1'40	6 <sup>m</sup> 12	8 <sup>h</sup> 17	24 <sup>h</sup> 14	12 <sup>h</sup> 2	26 <sup>h</sup> 59	6 <sup>h</sup> 14	13 <sup>h</sup> 49	5 <sup>h</sup> 21	4 <sup>h</sup> 30	11 <sup>h</sup> D20	12 <sup>h</sup> 24	4 <sup>h</sup> 53	23 <sup>h</sup> 0	W 21
T 22	11 56 21	1 <sup>h</sup> 0'06	19 <sup>m</sup> 51	10 <sup>h</sup> 18	25 <sup>h</sup> 29	12 <sup>h</sup> 47	27 <sup>h</sup> 14	6 <sup>h</sup> 10	13 <sup>h</sup> 46	5 <sup>h</sup> 23	4 <sup>h</sup> 29	11 <sup>h</sup> 20	12 <sup>h</sup> 21	5 <sup>h</sup> 0	23 <sup>h</sup> 4	T 22
F 23	12 0 18	1 <sup>h</sup> 59'30	2 <sup>h</sup> 28	12 <sup>h</sup> 17	26 <sup>h</sup> 44	13 <sup>h</sup> 33	27 <sup>h</sup> 28	6 <sup>h</sup> 6	13 <sup>h</sup> 44	5 <sup>h</sup> 24	4 <sup>h</sup> 28	11 <sup>h</sup> R20	12 <sup>h</sup> 18	5 <sup>h</sup> 7	23 <sup>h</sup> 7	F 23
S 24	12 4 14	2 <sup>h</sup> 58'51	14 <sup>m</sup> 46	14 <sup>h</sup> 15	27 <sup>h</sup> 58	14 <sup>h</sup> 18	27 <sup>h</sup> 43	6 <sup>h</sup> 2	13 <sup>h</sup> 41	5 <sup>h</sup> 26	4 <sup>h</sup> 26	11 <sup>h</sup> 20	12 <sup>h</sup> 15	5 <sup>h</sup> 13	23 <sup>h</sup> 11	S 24
S 25	12 8 11	3 <sup>h</sup> 58'10	26 <sup>m</sup> 50	16 <sup>h</sup> 11	29 <sup>h</sup> 13	15 <sup>h</sup> 4	27 <sup>h</sup> 57	5 <sup>h</sup> 58	13 <sup>h</sup> 39	5 <sup>h</sup> 28	4 <sup>h</sup> 25	11 <sup>h</sup> 17	12 <sup>h</sup> 12	5 <sup>h</sup> 20	23 <sup>h</sup> 15	S 25
M 26	12 12 8	4 <sup>h</sup> 57'27	8 <sup>m</sup> 46	18 <sup>h</sup> 5	0 <sup>h</sup> 27	15 <sup>h</sup> 49	28 <sup>h</sup> 12	5 <sup>h</sup> 54	13 <sup>h</sup> 37	5 <sup>h</sup> 30	4 <sup>h</sup> 24	11 <sup>h</sup> 12	12 <sup>h</sup> 9	5 <sup>h</sup> 27	23 <sup>h</sup> 18	M 26
T 27	12 16 4	5 <sup>h</sup> 56'41	20 <sup>m</sup> 38	19 <sup>h</sup> 57	1 <sup>h</sup> 42	16 <sup>h</sup> 34	28 <sup>h</sup> 26	5 <sup>h</sup> 50	13 <sup>h</sup> 34	5 <sup>h</sup> 32	4 <sup>h</sup> 22	11 <sup>h</sup> 4	12 <sup>h</sup> 5	5 <sup>h</sup> 34	23 <sup>h</sup> 22	T 27
W 28	12 20 1	6 <sup>h</sup> 55'53	2 <sup>h</sup> 29	21 <sup>m</sup> 46	2 <sup>h</sup> 56	17 <sup>h</sup> 20	28 <sup>h</sup> 41	5 <sup>h</sup> 46	13 <sup>h</sup> 32	5 <sup>h</sup> 34	4 <sup>h</sup> 21	10 <sup>h</sup> 55	12 <sup>h</sup> 2	5 <sup>h</sup> 40	23 <sup>h</sup> 25	W 28
T 29	12 23 57	7 <sup>h</sup> 55'03	14 <sup>m</sup> 22	23 <sup>m</sup> 32	4 <sup>h</sup> 11	18 <sup>h</sup> 5	28 <sup>h</sup> 55	5 <sup>h</sup> 42	13 <sup>h</sup> 30	5 <sup>h</sup> 36	4 <sup>h</sup> 20	10 <sup>h</sup> 43	11 <sup>h</sup> 59	5 <sup>h</sup> 47	23 <sup>h</sup> 28	T 29
F 30	12 27 54	8 <sup>h</sup> 54'11	26 <sup>m</sup> 19	25 <sup>m</sup> 14	5 <sup>h</sup> 25	18 <sup>h</sup> 50	29 <sup>h</sup> 9	5 <sup>h</sup> 39	13 <sup>h</sup> 27	5 <sup>h</sup> 39	4 <sup>h</sup> 19	10 <sup>h</sup> 31	11 <sup>h</sup> 56	5 <sup>h</sup> 54	23 <sup>h</sup> 32	F 30
S 31	12 31 50	9 <sup>h</sup> 53'17	8 <sup>m</sup> 22	26 <sup>m</sup> 53	6 <sup>h</sup> 39	19 <sup>h</sup> 35	29 <sup>h</sup> 24	5 <sup>h</sup> 35	13 <sup>h</sup> 25	5 <sup>h</sup> 41	4 <sup>h</sup> 17	10 <sup>h</sup> 29	11 <sup>h</sup> 53	6 <sup>h</sup> 1	23 <sup>h</sup> 35	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	decl	lat
T 1	7s48	4n53	4s56	13s31	2s 9	12s55	1s17	1s58	0s42	4s 6	1s 5	10n34	2n 2	6n48	0n49	11n28	1s46	22n 9	13n27	22s28	22s27	5n50	8s31	6n 6									
F 2	7 25	0 22	4 58	12 53	2 8	12 30	1 18	1 39	0 42	4 1	1 5	10 36	2 2	6 49	0 49	11 29	1 46	22 10	13 27	22 26	22 27	5 47	8 30	6 6									
S 3	7 2	4s10	4 47	12 13	2 7	12 4	1 19	1 20	0 41	3 55	1 5	10 38	2 3	6 50	0 49	11 29	1 46	22 11	13 27	22 24	22 26	5 44	8 29	6 6									
S 4	6 39	8 34	4 24	11 32	2 5	11 38	1 20	1 1	0 41	3 49	1 5	10 39	2 3	6 51	0 49	11 30	1 46	22 11	13 27	22 23	22 26	5 42	8 27	6 6									
M 5	6 16	12 40	3 48	10 50	2 3	11 12	1 21	0 42	0 40	3 44	1 5	10 41	2 3	6 52	0 49	11 31	1 46	22 12	13 27	22 22	22 25	5 39	8 26	6 6									
T 6	5 53	16 18	3 1	10 6	2 1	10 45	1 22	0 23	0 39	3 38	1 5	10 43	2 3	6 53	0 49	11 31	1 45	22 12	13 27	22 21	22 25	5 37	8 24	6 6									
W 7	5 30	19 16	2 5	9 21	1 58	10 18	1 22	0 4	0 39	3 32	1 4	10 45	2 3	6 54	0 49	11 32	1 45	22 13	13 27	22 20	22 25	5 34	8 23	6 6									
T 8	5 7	21 21	1 1	8 35	1 54	9 51	1 23	0n15	0 38	3 26	1 4	10 47	2 3	6 55	0 49	11 32	1 45	22 13	13 27	22 20	22 24	5 32	8 22	6 6									
F 9	4 43	22 23	0n 7	7 47	1 50	9 23	1 24	0 34	0 38	3 21	1 4	10 48	2 3	6 56	0 49	11 33	1 45	22 14	13 27	22 20	22 24	5 29	8 20	6 7									
S 10	4 20	22 10	1 16	6 58	1 45	8 55	1 24	0 53	0 37	3 15	1 4	10 50	2 3	6 57	0 49	11 33	1 45	22 15	13 27	22 20	22 23	5 27	8 19	6 7									
S 11	3 56	20 39	2 24	6 8	1 40	8 27	1 25	1 12	0 36	3 9	1 5	10 52	2 3	6 58	0 49	11 34	1 45	22 15	13 27	22 20	22 23	5 24	8 17	6 7									
M 12	3 33	17 49	3 24	5 17	1 34	7 59	1 25	1 30	0 36	3 3	1 5	10 54	2 3	6 59	0 49	11 35	1 45	22 16	13 27	22 19	22 23	5 22	8 16	6 7									
T 13	3 9	13 48	4 14	4 25	1 28	7 31	1 26	1 49	0 35	2 58	1 5	10 55	2 3	7 0	0 49	11 35	1 45	22 16	13 27	22 18	22 22	5 19	8 15	6 7									
W 14	2 46	8 50	4 47	3 32	1 21	7 2	1 26	2 8	0 34	2 52	1 5	10 57	2 3	7 1	0 49	11 36	1 45	22 17	13 27	22 17	22 22	5 17	8 13	6 7									
T 15	2 22	3 16	5 0	2 38	1 14	6 33	1 26	2 27	0 34	2 46	1 5	10 59	2 3	7 2	0 49	11 37	1 45	22 17	13 27	22 16	22 21	5 14	8 12	6 7									
F 16	1 58	2n31	4 53	1 43	1 6	6 4	1 26	2 45	0 33	2 40	1 5	11 0	2 3	7 3	0 49	11 37	1 45	22 18	13 27	22 14	22 21	5 12	8 11	6 8									
S 17	1 35	8 6	4 25	0 47	0 57	5 35	1 26	3 4	0 33	2 34	1 5	11 2	2 3	7 4	0 49	11 38	1 45	22 18	13 27	22 13	22 21	5 9	8 9	6 8									
S 18	1 11	13 6	3 39	0n10	0 48	5 5	1 27	3 23	0 32	2 29	1 5	11 4	2 3	7 5	0 49	11 39	1 45	22 19	13 27	22 12	22 20	5 6	8 8	6 8									
M 19	0 47	17 12	2 40	1 6	0 39	4 36	1 27	3 41	0 31	2 23	1 5	11 5	2 3	7 6	0 49	11 39	1 45	22 19	13 27	22 11	22 20	5 4	8 6	6 8									
T 20	0 23	20 10	1 34	2 4	0 29	4 6	1 26	4 0	0 31	2 17	1 5	11 7	2 3	7 7	0 49	11 40	1 45	22 19	13 26	22 11	22 19	5 1	8 5	6 8									
W 21	0n 0	21 53	0 24	3 1	0 18	3 37	1 26	4 18	0 30	2 11	1 5	11 8	2 3	7 8	0 49	11 41	1 45	22 20	13 26	22 10	22 19	4 59	8 4	6 8									
T 22	0 24	22 20	0s45	3 58	0 7	3 7	1 26	4 36	0 29	2 6	1 5	11 10	2 3	7 9	0 49	11 41	1 45	22 20	13 26	22 10	22 19	4 56	8 2	6 9									
F 23	0 48	21 37	1 50	4 55	0n 4	2 37	1 26	4 55	0 29	2 0	1 5	11 11	2 3	7 10	0 49	11 42	1 45	22 21	13 26	22 10	22 18	4 54	8 1	6 9									
S 24	1 11	19 53	2 48	5 52	0 15	2 7	1 26	5 13	0 28	1 54	1 5	11 13	2 3	7 10	0 49	11 43	1 45	22 21	13 26	22 10	22 18	4 51	8 0	6 9									
S 25	1 35	17 16	3 37	6 47	0 27	1 37	1 25	5 31	0 28	1 48	1 5	11 14	2 3	7 11	0 49	11 43	1 45	22 21	13 26	22 10	22 17	4 49	7 58	6 9									
M 26	1 58	13 58	4 16	7 42	0 39	1 7	1 25	5 49	0 27	1 43	1 5	11 16	2 3	7 12	0 49	11 44	1 45	22 22	13 26	22 9	22 17	4 46	7 57	6 9									
T 27	2 22	10 9	4 44	8 36	0 51	0 37	1 24	6 7	0 26	1 37	1 5	11 17	2 3	7 13	0 49	11 45	1 45	22 22	13 26	22 8	22 17	4 44	7 56	6 10									
W 28	2 45	5 57	4 59	9 28	1 3	0 7	1 24	6 25	0 26	1 31	1 5	11 18	2 2	7 14	0 49	11 45	1 45	22 22	13 25	22 7	22 16	4 41	7 54	6 10									
T 29	3 9	1 31	5 2	10 18	1 14	0n24	1 23	6 43	0 25	1 25	1 5	11 20	2 2	7 15	0 49	11 46	1 45	22 23	13 25	22 5	22 16	4 39	7 53	6 10									
F 30	3 32	3s 0	4 51	11 7	1 16	0 54	1 22	7 1	0 24	1 20	1 5	11 21	2 2	7 16	0 49	11 47	1 45	22 23	13 25	22 4	22 15	4 36	7 52	6 10									
S 31	3n55	7s25	4s28	11n53	1n37	1n24	1s22	7n19	0s24	1s14	1s 5	11n22	2n 2	7n17	0n49	11n47	1s45	22n23	13n25	22s 2	22s15	4n34	7s50	6n11									

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

APRIL 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 35 47	10°52'20	20°31	28°27	7°54	20°20	29°38	5°R32	13°R23	5°43	4°R16	10°R 9	11°49	6°7	23°38	S 1
M 2	12 39 43	11°51'22	21°49	29°56	9° 8	21° 6	29°53	5°28	13°20	5°45	4°15	10°1	11°46	6°14	23°42	M 2
T 3	12 43 40	12°50'21	15°15	1°21	10°23	21°51	0°7	5°25	13°18	5°47	4°14	9°56	11°43	6°21	23°45	T 3
W 4	12 47 36	13°49'19	27°51	2°40	11°37	22°35	0°21	5°22	13°16	5°49	4°13	9°53	11°40	6°27	23°48	W 4
T 5	12 51 33	14°48'15	10°40	3°54	12°51	23°20	0°36	5°19	13°14	5°51	4°12	9°D52	11°37	6°34	23°51	T 5
F 6	12 55 30	15°47'09	23°44	5° 2	14° 6	24° 5	0°50	5°15	13°12	5°53	4°10	9°53	11°34	6°41	23°54	F 6
S 7	12 59 26	16°46'02	7°3	6° 5	15°20	24°50	1° 4	5°12	13°10	5°55	4° 9	9°54	11°30	6°48	23°57	S 7
S 8	13 3 23	17°44'53	20°45	7° 1	16°34	25°35	1°19	5°10	13° 8	5°58	4° 8	9°R54	11°27	6°54	24° 0	S 8
M 9	13 7 19	18°43'42	4°45	7°52	17°49	26°20	1°33	5° 7	13° 6	6° 0	4° 7	9°53	11°24	7° 1	24° 3	M 9
T 10	13 11 16	19°42'29	19° 7	8°36	19° 3	27° 4	1°47	5° 4	13° 4	6° 2	4° 6	9°50	11°21	7° 8	24° 6	T 10
W11	13 15 12	20°41'15	3°46	9°14	20°17	27°49	2° 1	5° 1	13° 2	6° 4	4° 5	9°45	11°18	7°15	24° 9	W11
T 12	13 19 9	21°39'58	18°37	9°46	21°31	28°33	2°15	4°59	13° 0	6° 6	4° 4	9°38	11°14	7°21	24°12	T 12
F 13	13 23 5	22°38'40	3°34	10°12	22°46	29°18	2°29	4°56	12°58	6° 8	4° 3	9°31	11°11	7°28	24°15	F 13
S 14	13 27 2	23°37'20	18°27	10°32	24° 0	0°8	3	2°43	12°56	6°11	4° 2	9°24	11° 8	7°35	24°17	S 14
S 15	13 30 59	24°35'58	3°8	10°45	25°14	0°47	2°57	4°52	12°55	6°13	4° 2	9°18	11° 5	7°41	24°20	S 15
M16	13 34 55	25°34'35	17°29	10°52	26°28	1°31	3°11	4°50	12°53	6°15	4° 1	9°14	11° 2	7°48	24°23	M16
T 17	13 38 52	26°33'09	1°25	10°R53	27°43	2°16	3°25	4°47	12°51	6°17	4° 0	9°12	10°59	7°55	24°25	T 17
W18	13 42 48	27°31'41	14°56	10°49	28°57	3° 0	3°39	4°45	12°50	6°20	3°59	9°D12	10°55	8° 2	24°28	W18
T 19	13 46 45	28°30'11	28° 0	10°38	0°11	3°44	3°53	4°44	12°48	6°22	3°58	9°13	10°52	8° 8	24°30	T 19
F 20	13 50 41	29°28'39	10°42	10°23	1°25	4°28	4° 7	4°42	12°47	6°24	3°58	9°15	10°49	8°15	24°32	F 20
S 21	13 54 38	0°27'05	23° 4	10° 3	2°39	5°13	4°21	4°40	12°45	6°26	3°57	9°16	10°46	8°22	24°35	S 21
S 22	13 58 34	1°25'28	5°12	9°38	3°53	5°57	4°34	4°39	12°44	6°29	3°56	9°R16	10°43	8°28	24°37	S 22
M23	14 2 31	2°23'50	17° 9	9° 9	5° 7	6°41	4°48	4°37	12°42	6°31	3°55	9°15	10°40	8°35	24°39	M23
T 24	14 6 28	3°22'09	29° 2	8°38	6°21	7°25	5° 2	4°36	12°41	6°33	3°55	9°12	10°36	8°42	24°42	T 24
W25	14 10 24	4°20'26	10°54	8° 3	7°35	8° 8	5°15	4°34	12°39	6°35	3°54	9° 8	10°33	8°49	24°44	W25
T 26	14 14 21	5°18'41	22°50	7°26	8°49	8°52	5°29	4°33	12°38	6°38	3°54	9° 2	10°30	8°55	24°46	T 26
F 27	14 18 17	6°16'55	4°51	6°48	10° 3	9°36	5°42	4°32	12°37	6°40	3°53	8°56	10°27	9° 2	24°48	F 27
S 28	14 22 14	7°15'06	17° 1	6° 9	11°17	10°20	5°56	4°31	12°36	6°42	3°53	8°51	10°24	9° 9	24°50	S 28
S 29	14 26 10	8°13'15	29°21	5°31	12°31	11° 4	6° 9	4°30	12°35	6°44	3°52	8°46	10°20	9°16	24°52	S 29
M30	14 30 7	9°11'23	11°53	4°53	13°45	11°47	6°23	4°29	12°34	6°47	3°52	8°42	10°17	9°22	24°54	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	4n19	11s36	3s52	12n37	1n48	1n54	1s21	7n36	0s23	1s 8	1s 5	11n24	2n 2	7n18	0n49	11n48
M 2	4 42	15 21	3 5	13 19	1 59	2 24	1 20	7 54	0 22	1 3	1 5	11 25	2 2	7 18	0 49	11 49
T 3	5 5	18 28	2 8	13 58	2 9	2 54	1 19	8 11	0 22	0 57	1 5	11 26	2 2	7 19	0 49	11 50
W 4	5 28	20 45	1 4	14 35	2 18	3 24	1 18	8 29	0 21	0 51	1 5	11 27	2 2	7 20	0 49	11 50
T 5	5 51	22 1	0n 4	15 8	2 27	3 54	1 17	8 46	0 21	0 46	1 5	11 28	2 2	7 21	0 49	11 51
F 6	6 13	22 6	1 14	15 39	2 35	4 24	1 16	9 3	0 20	0 40	1 5	11 29	2 2	7 22	0 49	11 52
S 7	6 36	20 57	2 21	16 6	2 42	4 54	1 15	9 20	0 19	0 34	1 5	11 30	2 2	7 22	0 49	11 52
S 8	6 58	18 33	3 21	16 31	2 48	5 24	1 13	9 37	0 19	0 29	1 5	11 31	2 2	7 23	0 49	11 53
M 9	7 21	15 2	4 12	16 52	2 53	5 53	1 12	9 54	0 18	0 23	1 6	11 32	2 2	7 24	0 48	11 54
T 10	7 43	10 34	4 47	17 11	2 57	6 23	1 11	10 11	0 17	0 18	1 6	11 33	2 1	7 25	0 48	11 55
W11	8 5	5 24	5 5	17 26	3 0	6 52	1 9	10 27	0 17	0 12	1 6	11 34	2 1	7 25	0 48	11 55
T 12	8 27	0n 9	5 3	17 38	3 1	7 21	1 8	10 44	0 16	0 6	1 6	11 35	2 1	7 26	0 48	11 56
F 13	8 49	5 43	4 41	17 47	3 2	7 50	1 6	11 0	0 15	0 1	1 6	11 36	2 1	7 27	0 48	11 57
S 14	9 11	10 56	3 59	17 52	3 1	8 19	1 5	11 16	0 15	0n 5	1 6	11 36	2 1	7 27	0 48	11 58
S 15	9 33	15 26	3 2	17 54	2 59	8 48	1 3	11 33	0 14	0 10	1 6	11 37	2 1	7 28	0 48	11 58
M16	9 54	18 55	1 55	17 53	2 56	9 16	1 2	11 49	0 13	0 16	1 6	11 38	2 1	7 29	0 48	11 59
T 17	10 15	21 10	0 42	17 49	2 51	9 44	1 0	12 5	0 13	0 21	1 6	11 38	2 1	7 29	0 48	12 0
W18	10 37	22 7	0s31	17 42	2 45	10 12	0 58	12 20	0 12	0 27	1 6	11 39	2 1	7 30	0 48	12 1
T 19	10 58	21 47	1 40	17 31	2 37	10 40	0 57	12 36	0 11	0 32	1 6	11 40	2 1	7 30	0 48	12 1
F 20	11 18	20 21	2 43	17 18	2 28	11 8	0 55	12 52	0 11	0 37	1 6	11 40	2 0	7 31	0 48	12 2
S 21	11 39	17 57	3 36	17 2	2 18	11 35	0 53	13 7	0 10	0 43	1 6	11 41	2 0	7 31	0 48	12 3
S 22	11 59	14 50	4 18	16 43	2 7	12 2	0 51	13 22	0 10	0 48	1 7	11 41	2 0	7 32	0 48	12 4
M23	12 19	11 8	4 48	16 22	1 54	12 29	0 49	13 38	0 9	0 54	1 7	11 42	2 0	7 33	0 48	12 4
T 24	12 39	7 2	5 6	15 59	1 40	12 55	0 47	13 53	0 8	0 59	1 7	11 42	2 0	7 33	0 48	12 5
W25	12 59	2 42	5 11	15 34	1 25	13 21	0 45	14 7	0 8	1 4	1 7	11 42	2 0	7 33	0 48	12 6
T 26	13 19	1s46	5 2	15 7	1 10	13 47	0 43	14 22	0 7	1 9	1 7	11 43	2 0	7 34	0 48	12 6
F 27	13 38	6 13	4 40	14 39	0 54	14 12	0 41	14 37	0 6	1 15	1 7	11 43	2 0	7 34	0 48	12 7
S 28	13 57	10 28	4 5	14 10	0 37	14 37	0 39	14 51	0 6	1 20	1 7	11 43	1 59	7 35	0 48	12 8
S 29	14 16	14 21	3 18	13 41	0 20	15 2	0 37	15 5	0 5	1 25	1 7	11 43	1 59	7 35	0 48	12 9
M30	14n35	17s40	2s21	13n12	0n 2	15n26	0s35	15n19	0s 4	1n30	1s 7	11n44	1n59	7n36	0n48	12n 9

Julian Day Number = 2347175.5, Delta T = 10.88 sec  
 Ecliptic obliquity = 23°28'33", Nutation = 0°00'16", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 20°45'04", Lahiri = 19°52'05"Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

MAY 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 34 3	10♈ 9'29	24♐36	4°R16	14♌59	12♈31	6♊36	4°R29	12°R32	6♈49	3°R51	8°R40	10♈14	9♐29	24♌55	T 1
W 2	14 38 0	11° 7'34	7♈32	3♈41	16°13	13°14	6°49	4♐28	12♐32	6°51	3♐51	8°D39	10°11	9°36	24°57	W 2
T 3	14 41 57	12° 5'37	20♈1	3° 9	17°27	13°58	7° 2	4°28	12°31	6°53	3°50	8♈40	10° 8	9°42	24°59	T 3
F 4	14 45 53	13° 3'38	4♈2	2°40	18°41	14°41	7°15	4°27	12°30	6°56	3°50	8°41	10° 5	9°49	25° 0	F 4
S 5	14 49 50	14° 1'38	17°36	2°14	19°55	15°25	7°29	4°27	12°29	6°58	3°50	8°42	10° 1	9°56	25° 2	S 5
S 6	14 53 46	14°59'37	1♈24	1°52	21° 9	16° 8	7°42	4°27	12°28	7° 0	3°49	8°44	10° 3	25° 4	S 6	
M 7	14 57 43	15°57'35	15°25	1°34	22°23	16°51	7°54	4°D27	12°27	7° 2	3°49	8°R44	10° 9	25° 5	M 7	
T 8	15 1 39	16°55'31	29°37	1°21	23°37	17°35	8° 7	4°27	12°27	7° 5	3°49	8°44	10°16	25° 6	T 8	
W 9	15 5 36	17°53'25	13♈59	1°12	24°51	18°18	8°20	4°27	12°26	7° 7	3°49	8°42	10°23	25° 8	W 9	
T 10	15 9 32	18°51'19	28°28	1°D 7	26° 4	19° 1	8°33	4°28	12°25	7° 9	3°48	8°40	10°29	25° 9	T 10	
F 11	15 13 29	19°49'11	12♊58	1° 7	27°18	19°44	8°46	4°28	12°25	7°11	3°48	8°38	10°36	25°10	F 11	
S 12	15 17 26	20°47'02	27°24	1°12	28°32	20°27	8°58	4°28	12°24	7°14	3°48	8°35	10°43	25°11	S 12	
S 13	15 21 22	21°44'52	11♈41	1°21	29°46	21°10	9°11	4°29	12°24	7°16	3°48	8°33	10°50	25°12	S 13	
M14	15 25 19	22°42'40	25°44	1°35	1♐1	21°53	9°23	4°30	12°24	7°18	3°48	8°32	10°56	25°13	M14	
T 15	15 29 15	23°40'27	9♐28	1°53	2°13	22°36	9°36	4°31	12°23	7°20	3°48	8°D32	10°30	11° 3	T 15	
W16	15 33 12	24°38'13	22°52	2°16	3°27	23°19	9°48	4°31	12°23	7°22	3°D48	8°32	10°26	11°10	W16	
T 17	15 37 8	25°35'57	5♈54	2°43	4°41	24° 2	10° 0	4°32	12°23	7°25	3°48	8°33	10°23	11°17	T 17	
F 18	15 41 5	26°33'40	18°36	3°14	5°55	24°44	10°12	4°34	12°23	7°27	3°48	8°34	10°20	11°23	F 18	
S 19	15 45 1	27°31'20	1♐0	3°49	7° 8	25°27	10°24	4°35	12°22	7°29	3°48	8°35	10°17	11°30	S 19	
S 20	15 48 58	28°29'00	13°11	4°28	8°22	26°10	10°36	4°36	12°22	7°31	3°48	8°36	10°14	11°37	S 20	
M21	15 52 55	29°26'38	25°11	5°11	9°36	26°52	10°48	4°38	12°D22	7°33	3°48	8°R37	10°11	11°43	M21	
T 22	15 56 51	0♐24'14	7♐5	5°58	10°49	27°35	11° 0	4°39	12°22	7°35	3°49	8°37	10° 7	11°50	T 22	
W23	16 0 48	1°21'49	18°58	6°48	12° 3	28°17	11°12	4°41	12°23	7°37	3°49	8°36	10° 4	11°57	W23	
T 24	16 4 44	2°19'22	0♐55	7°41	13°17	29° 0	11°23	4°42	12°23	7°39	3°49	8°36	10° 1	12° 4	T 24	
F 25	16 8 41	3°16'54	13° 0	8°38	14°30	29°42	11°35	4°44	12°23	7°42	3°49	8°35	10°58	12°10	F 25	
S 26	16 12 37	4°14'25	25°15	9°39	15°44	0♐24	11°46	4°46	12°23	7°44	3°50	8°34	10°55	12°17	S 26	
S 27	16 16 34	5°11'54	7♐44	10°42	16°58	1° 7	11°58	4°48	12°24	7°46	3°50	8°34	10°51	12°24	S 27	
M28	16 20 30	6° 9'23	20°29	11°49	18°11	1°49	12° 9	4°50	12°24	7°48	3°50	8°34	10°48	12°31	M28	
T 29	16 24 27	7° 6'50	3♐31	12°59	19°25	2°31	12°20	4°53	12°24	7°50	3°51	8°D33	10°45	12°37	T 29	
W30	16 28 24	8° 4'16	16°49	14°11	20°38	3°13	12°31	4°55	12°25	7°52	3°51	8°33	10°42	12°44	W30	
T 31	16 32 20	9♐1	0♐22	15♐27	21♐52	3♐55	12°V42	4♐57	12♐25	7♐54	3♐52	8°R33	10°39	12♐51	T 31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
T 1	14n53	20s11	1s16	12n44	0s15	15n50	0s32	15n33	0s 4	1n35	1s 7	11n44	1n59	7n36	0n48	12n10
W 2	15 11	21 42	0 6	12 16	0 32	16 14	0 30	15 47	0 3	1 41	1 8	11 44	1 59	7 36	0 48	12 11
T 3	15 29	22 3	1n 6	11 49	0 49	16 37	0 28	16 1	0 2	1 46	1 8	11 44	1 59	7 37	0 48	12 12
F 4	15 47	21 10	2 15	11 24	1 5	17 0	0 26	16 14	0 2	1 51	1 8	11 44	1 59	7 37	0 48	12 12
S 5	16 4	19 3	3 18	11 0	1 21	17 22	0 23	16 28	0 1	1 56	1 8	11 44	1 58	7 37	0 48	12 13
S 6	16 22	15 48	4 10	10 38	1 36	17 44	0 21	16 41	0 0	2 1	1 8	11 44	1 58	7 37	0 48	12 14
M 7	16 38	11 38	4 49	10 19	1 50	18 5	0 19	16 54	0n 0	2 6	1 8	11 44	1 58	7 38	0 48	12 15
T 8	16 55	6 46	5 11	10 1	2 4	18 26	0 17	17 7	0 1	2 11	1 8	11 43	1 58	7 38	0 47	12 15
W 9	17 11	1 29	5 13	9 46	2 17	18 47	0 14	17 20	0 1	2 16	1 8	11 43	1 58	7 38	0 47	12 16
T 10	17 27	3n55	4 56	9 34	2 28	19 7	0 12	17 32	0 2	2 21	1 9	11 43	1 58	7 38	0 47	12 17
F 11	17 43	9 7	4 20	9 24	2 39	19 26	0 9	17 44	0 3	2 26	1 9	11 43	1 58	7 39	0 47	12 17
S 12	17 59	13 48	3 28	9 16	2 49	19 45	0 7	17 57	0 3	2 30	1 9	11 42	1 57	7 39	0 47	12 18
S 13	18 14	17 38	2 23	9 11	2 57	20 3	0 5	18 9	0 4	2 35	1 9	11 42	1 57	7 39	0 47	12 19
M14	18 29	20 21	1 10	9 9	3 5	20 21	0 2	18 20	0 5	2 40	1 9	11 42	1 57	7 39	0 47	12 20
T 15	18 43	21 49	0s 5	9 9	3 12	20 38	0n 0	18 32	0 5	2 45	1 9	11 41	1 57	7 39	0 47	12 20
W16	18 57	21 59	1 18	9 11	3 18	20 55	0 3	18 43	0 6	2 49	1 9	11 41	1 57	7 39	0 47	12 21
T 17	19 11	20 55	2 26	9 16	3 22	21 11	0 5	18 55	0 6	2 54	1 10	11 40	1 57	7 39	0 47	12 22
F 18	19 25	18 49	3 24	9 23	3 26	21 27	0 8	19 6	0 7	2 59	1 10	11 40	1 57	7 39	0 47	12 22
S 19	19 38	15 53	4 11	9 32	3 29	21 42	0 10	19 17	0 8	3 3	1 10	11 39	1 56	7 39	0 47	12 23
S 20	19 51	12 19	4 46	9 43	3 31	21 56	0 12	19 27	0 8	3 8	1 10	11 38	1 56	7 39	0 47	12 24
M21	20 4	8 19	5 8	9 56	3 32	22 10	0 15	19 38	0 9	3 12	1 10	11 38	1 56	7 39	0 47	12 24
T 22	20 16	4 1	5 16	10 11	3 33	22 23	0 17	19 48	0 10	3 17	1 10	11 37	1 56	7 39	0 47	12 25
W23	20 28	0s24	5 11	10 27	3 32	22 36	0 20	19 58	0 10	3 21	1 10	11 36	1 56	7 39	0 47	12 26
T 24	20 39	4 51	4 53	10 46	3 31	22 47	0 22	20 8	0 11	3 26	1 11	11 36	1 56	7 39	0 47	12 26
F 25	20 51	9 9	4 21	11 6	3 29	22 59	0 24	20 18	0 11	3 30	1 11	11 35	1 56	7 39	0 47	12 27
S 26	21 1	13 9	3 38	11 27	3 27	23 9	0 27	20 28	0 12	3 34	1 11	11 34	1 55	7 39	0 47	12 28
S 27	21 12	16 40	2 43	11 50	3 23	23 19	0 29	20 37	0 13	3 39	1 11	11 33	1 55	7 38	0 47	12 28
M28	21 22	19 29	1 39	12 14	3 19	23 28	0 32	20 46	0 13	3 43	1 11	11 32	1 55	7 38	0 47	12 29
T 29	21 32	21 21	0 28	12 40	3 14	23 37	0 34	20 55	0 14	3 47	1 11	11 31	1 55	7 38	0 47	12 29
W30	21 41	22 4	0n46	13 7	3 9	23 45	0 36	21 4	0 15	3 51	1 12	11 30	1 55	7 38	0 47	12 30
T 31	21n50	21s31	1n58	13n34	3s 3	23n52	0n38	21n13	0n15	3n56	1s12	11n29	1n55	7n38	0n46	12n31

Julian Day Number = 2347205.5, Delta T = 10.87 sec  
 Ecliptic obliquity = 23°28'32", Nutation = 0°00'15", out-of-bounds declination in red  
 Ayanamsha: Fagan/Bradley = 20°45'09, Lahiri = 19°52'09Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

JUNE 1714

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 36 17	9II59'06	14☾ 9	16☾46	23II 5	4II37	12☾53	5☾ 0	12☾26	7☾56	3☾52	8°R33	8☾36	12☾57	25°R21	F 1
S 2	16 40 13	10°56'29	28° 7	18° 7	24°19	5°19	13° 4	5° 2	12°27	7°58	3°53	8☾33	8°32	13° 4	25☾21	S 2
S 3	16 44 10	11°53'52	12☾13	19°32	25°32	6° 1	13°15	5° 5	12°27	8° 0	3°53	8°33	8°29	13°11	25°21	S 3
M 4	16 48 6	12°51'15	26°25	20°59	26°46	6°43	13°25	5° 8	12°28	8° 2	3°54	8°33	8°26	13°18	25°21	M 4
T 5	16 52 3	13°48'36	10☾39	22°29	27°59	7°25	13°36	5°11	12°29	8° 4	3°54	8°D32	8°23	13°24	25°20	T 5
W 6	16 55 59	14°45'58	24°54	24° 1	29°13	8° 6	13°46	5°14	12°30	8° 5	3°55	8°33	8°20	13°31	25°20	W 6
T 7	16 59 56	15°43'18	9☾ 5	25°37	0☾26	8°48	13°57	5°17	12°30	8° 7	3°56	8°33	8°17	13°38	25°20	T 7
F 8	17 3 53	16°40'39	23°12	27°15	1°40	9°30	14° 7	5°20	12°31	8° 9	3°56	8°33	8°13	13°44	25°19	F 8
S 9	17 7 49	17°37'59	7☾11	28°56	2°53	10°11	14°17	5°23	12°32	8°11	3°57	8°34	8°10	13°51	25°19	S 9
S 10	17 11 46	18°35'18	21° 0	0II40	4° 7	10°53	14°27	5°27	12°33	8°13	3°58	8°35	8° 7	13°58	25°18	S 10
M 11	17 15 42	19°32'37	4II37	2°26	5°20	11°35	14°37	5°30	12°35	8°15	3°58	8°R35	8° 4	14° 5	25°17	M 11
T 12	17 19 39	20°29'55	18° 0	4°15	6°33	12°16	14°46	5°34	12°36	8°16	3°59	8°35	8° 1	14°11	25°16	T 12
W 13	17 23 35	21°27'13	1☾ 8	6° 7	7°47	12°58	14°56	5°37	12°37	8°18	4° 0	8°34	7°57	14°18	25°16	W 13
T 14	17 27 32	22°24'31	14° 0	8° 1	9° 0	13°39	15° 5	5°41	12°38	8°20	4° 1	8°33	7°54	14°25	25°15	T 14
F 15	17 31 28	23°21'47	26°36	9°57	10°14	14°20	15°15	5°45	12°40	8°22	4° 2	8°31	7°51	14°32	25°14	F 15
S 16	17 35 25	24°19'03	8☾57	11°56	11°27	15° 2	15°24	5°49	12°41	8°23	4° 3	8°29	7°48	14°38	25°13	S 16
S 17	17 39 22	25°16'18	21° 6	13°57	12°40	15°43	15°33	5°53	12°42	8°25	4° 4	8°27	7°45	14°45	25°12	S 17
M 18	17 43 18	26°13'33	3☾ 6	16° 0	13°54	16°24	15°42	5°57	12°44	8°27	4° 5	8°25	7°42	14°52	25°11	M 18
T 19	17 47 15	27°10'47	15° 1	18° 5	15° 7	17° 5	15°51	6° 1	12°45	8°28	4° 6	8°23	7°38	14°58	25° 9	T 19
W 20	17 51 11	28° 8'00	26°54	20°12	16°20	17°46	16° 0	6° 5	12°47	8°30	4° 7	8°D23	7°35	15° 5	25° 8	W 20
T 21	17 55 8	29° 5'13	8☾50	22°20	17°34	18°27	16° 8	6° 9	12°48	8°32	4° 8	8°23	7°32	15°12	25° 7	T 21
F 22	17 59 4	0☾ 2'25	20°55	24°29	18°47	19° 8	16°17	6°14	12°50	8°33	4° 9	8°24	7°29	15°19	25° 6	F 22
S 23	18 3 1	0°59'36	3II12	26°39	20° 0	19°49	16°25	6°18	12°52	8°35	4°10	8°26	7°26	15°25	25° 4	S 23
S 24	18 6 57	1°56'47	15°46	28°49	21°13	20°30	16°33	6°23	12°54	8°36	4°11	8°27	7°23	15°32	25° 3	S 24
M 25	18 10 54	2°53'58	28°39	1☾ 0	22°27	21°11	16°41	6°27	12°55	8°38	4°12	8°28	7°19	15°39	25° 1	M 25
T 26	18 14 51	3°51'09	11☾53	3°11	23°40	21°52	16°49	6°32	12°57	8°39	4°13	8°R29	7°16	15°46	25° 0	T 26
W 27	18 18 47	4°48'19	25°30	5°22	24°53	22°33	16°57	6°37	12°59	8°41	4°15	8°28	7°13	15°52	24°58	W 27
T 28	18 22 44	5°45'29	9☾27	7°32	26° 6	23°13	17° 5	6°41	13° 1	8°42	4°16	8°26	7°10	15°59	24°56	T 28
F 29	18 26 40	6°42'39	23°41	9°42	27°19	23°54	17°12	6°46	13° 3	8°44	4°17	8°22	7° 7	16° 6	24°55	F 29
S 30	18 30 37	7☾39'49	8☾ 7	11☾50	28☾32	24II35	17°Y20	6☾51	13☾ 5	8☾45	4☾18	8☾18	7☾ 3	16☾12	24☾53	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
F 1	21n59	19s40	3n 5	14n 3	2s57	23n58	0n41	21n21	0n16	4n 0	1s12	11n28	1n55	7n37	0n46	12n31	1s45	22n17	13n 7	21s46	21s46	1n58	6s57	6n31			
S 2	22 7	16 38	4 1	14 32	2 50	24 4	0 43	21 29	0 16	4 4	1 12	11 27	1 54	7 37	0 46	12 32	1 45	22 16	13 7	21 46	21 46	1 55	6 56	6 31			
S 3	22 15	12 37	4 44	15 2	2 42	24 9	0 45	21 37	0 17	4 8	1 12	11 26	1 54	7 37	0 46	12 33	1 45	22 16	13 6	21 46	21 45	1 53	6 56	6 32			
M 4	22 22	7 52	5 10	15 33	2 34	24 13	0 47	21 45	0 18	4 12	1 12	11 25	1 54	7 36	0 46	12 33	1 45	22 15	13 6	21 46	21 45	1 50	6 56	6 32			
T 5	22 30	2 42	5 17	16 4	2 25	24 17	0 50	21 53	0 18	4 15	1 13	11 24	1 54	7 36	0 46	12 34	1 45	22 14	13 6	21 46	21 44	1 48	6 56	6 32			
W 6	22 36	2n37	5 4	16 36	2 16	24 20	0 52	22 0	0 19	4 19	1 13	11 22	1 54	7 36	0 46	12 34	1 45	22 14	13 5	21 46	21 44	1 45	6 55	6 33			
T 7	22 43	7 47	4 33	17 8	2 7	24 22	0 54	22 7	0 19	4 23	1 13	11 21	1 54	7 35	0 46	12 35	1 45	22 13	13 5	21 46	21 43	1 43	6 55	6 33			
F 8	22 48	12 31	3 46	17 40	1 57	24 24	0 56	22 14	0 20	4 27	1 13	11 20	1 54	7 35	0 46	12 35	1 45	22 13	13 5	21 46	21 43	1 40	6 55	6 33			
S 9	22 54	16 32	2 45	18 13	1 47	24 24	0 58	22 21	0 21	4 31	1 13	11 18	1 53	7 34	0 46	12 36	1 45	22 12	13 4	21 46	21 42	1 38	6 55	6 34			
S 10	22 59	19 34	1 36	18 45	1 36	24 25	1 0	22 28	0 21	4 34	1 14	11 17	1 53	7 34	0 46	12 37	1 45	22 12	13 4	21 46	21 42	1 35	6 55	6 34			
M11	23 4	21 27	0 22	19 17	1 26	24 24	1 2	22 34	0 22	4 38	1 14	11 16	1 53	7 34	0 46	12 37	1 45	22 11	13 4	21 46	21 41	1 33	6 55	6 35			
T 12	23 8	22 4	0s52	19 48	1 15	24 22	1 4	22 40	0 22	4 42	1 14	11 14	1 53	7 33	0 46	12 38	1 45	22 11	13 4	21 46	21 41	1 30	6 55	6 35			
W13	23 12	21 27	2 1	20 19	1 4	24 20	1 6	22 46	0 23	4 45	1 14	11 13	1 53	7 33	0 46	12 38	1 45	22 10	13 3	21 46	21 40	1 28	6 55	6 35			
T 14	23 15	19 42	3 3	20 49	0 52	24 17	1 7	22 52	0 24	4 49	1 14	11 11	1 53	7 32	0 46	12 39	1 45	22 9	13 3	21 46	21 40	1 26	6 54	6 36			
F 15	23 19	17 1	3 55	21 18	0 41	24 14	1 9	22 57	0 24	4 52	1 15	11 10	1 53	7 31	0 46	12 39	1 45	22 9	13 3	21 45	21 39	1 23	6 54	6 36			
S 16	23 21	13 38	4 34	21 46	0 30	24 10	1 11	23 3	0 25	4 55	1 15	11 8	1 53	7 31	0 46	12 40	1 45	22 8	13 2	21 45	21 39	1 21	6 54	6 36			
S 17	23 23	9 44	5 1	22 12	0 18	24 5	1 13	23 8	0 25	4 59	1 15	11 7	1 52	7 30	0 46	12 40	1 45	22 7	13 2	21 45	21 38	1 18	6 55	6 37			
M18	23 25	5 30	5 14	22 37	0 7	23 59	1 14	23 13	0 26	5 2	1 15	11 5	1 52	7 30	0 46	12 41	1 45	22 7	13 2	21 44	21 38	1 16	6 55	6 37			
T 19	23 27	1 6	5 13	23 0	0n 4	23 52	1 16	23 17	0 26	5 5	1 16	11 3	1 52	7 29	0 46	12 41	1 45	22 6	13 1	21 44	21 37	1 13	6 55	6 37			
W20	23 28	3s20	4 59	23 22	0 15	23 45	1 17	23 22	0 27	5 8	1 16	11 2	1 52	7 29	0 46	12 42	1 45	22 5	13 1	21 44	21 37	1 11	6 55	6 38			
T 21	23 28	7 40	4 32	23 40	0 25	23 38	1 19	23 26	0 28	5 11	1 16	11 0	1 52	7 28	0 46	12 42	1 45	22 5	13 1	21 44	21 36	1 8	6 55	6 38			
F 22	23 29	11 46	3 53	23 57	0 35	23 29	1 20	23 30	0 28	5 14	1 16	10 58	1 52	7 27	0 46	12 43	1 46	22 4	13 1	21 44	21 35	1 6	6 55	6 38			
S 23	23 28	15 27	3 2	24 11	0 45	23 20	1 22	23 34	0 29	5 17	1 16	10 57	1 52	7 26	0 46	12 43	1 46	22 3	13 0	21 45	21 35	1 3	6 55	6 38			
S 24	23 28	18 31	2 2	24 22	0 54	23 10	1 23	23 37	0 29	5 20	1 17	10 55	1 52	7 26	0 45	12 43	1 46	22 3	13 0	21 45	21 34	1 1	6 55	6 39			
M25	23 27	20 46	0 54	24 31	1 3	22 59	1 24	23 41	0 30	5 23	1 17	10 53	1 51	7 25	0 45	12 44	1 46	22 2	13 0	21 45	21 34	0 58	6 56	6 39			
T 26	23 25	21 56	0n19	24 37	1 11	22 48	1 26	23 44	0 30	5 26	1 17	10 51	1 51	7 24	0 45	12 44	1 46	22 1	12 59	21 45	21 33	0 56	6 56	6 39			
W27	23 23	21 52	1 32	24 40	1 18	22 36	1 27	23 47	0 31	5 29	1 17	10 49	1 51	7 24	0 45	12 45	1 46	22 1	12 59	21 45	21 33	0 53	6 56	6 40			
T 28	23 21	20 27	2 42	24 40	1 25	22 24	1 28	23 50	0 32	5 31	1 18	10 47	1 51	7 23	0 45	12 45	1 46	22 0	12 59	21 45	21 32	0 51	6 56	6 40			
F 29	23 18	17 44	3 43	24 38	1 31	22 11	1 29	23 52	0 32	5 34	1 18	10 45	1 51	7 22	0 45	12 46	1 46	21 59	12 59	21 44	21 32	0 48	6 57	6 40			
S 30	23n15	13s55	4n30	24n32	1n36	21n57	1n30	23n55	0n33	5n37	1s18	10n43	1n51	7n21	0n45	12n46	1s46	21n59	12n58	21s43	21s31	0n46	6s57	6n41			

ASTRODIENST EPHEMERIS for the year 1714  
geocentric

JULY 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 34 33	8°36'59	22°39	13°58	29°45	25°15	17°27	6°56	13°7	8°46	4°20	8°14	7°0	16°19	24°R51	S 1
M 2	18 38 30	9°34'10	7°11	16° 4	0°59	25°56	17°34	7° 2	13° 9	8°48	4°21	8°10	6°57	16°26	24°49	M 2
T 3	18 42 27	10°31'20	21°38	18° 9	2°12	26°36	17°41	7° 7	13°11	8°49	4°22	8° 8	6°54	16°33	24°47	T 3
W 4	18 46 23	11°28'31	5°55	20°12	3°25	27°17	17°47	7°12	13°14	8°50	4°24	8°D 7	6°51	16°39	24°45	W 4
T 5	18 50 20	12°25'43	20° 0	22°13	4°38	27°57	17°54	7°17	13°16	8°51	4°25	8° 7	6°48	16°46	24°43	T 5
F 6	18 54 16	13°22'55	3°52	24°13	5°51	28°37	18° 0	7°23	13°18	8°53	4°26	8° 8	6°44	16°53	24°41	F 6
S 7	18 58 13	14°20'07	17°31	26°11	7° 4	29°18	18° 7	7°28	13°20	8°54	4°28	8° 9	6°41	16°59	24°39	S 7
S 8	19 2 9	15°17'20	0°56	28° 8	8°17	29°58	18°13	7°34	13°23	8°55	4°29	8°10	6°38	17° 6	24°37	S 8
M 9	19 6 6	16°14'34	14° 8	0°52	9°30	0°38	18°19	7°39	13°25	8°56	4°31	8°R10	6°35	17°13	24°35	M 9
T 10	19 10 2	17°11'48	27° 9	1°55	10°43	1°19	18°25	7°45	13°28	8°57	4°32	8° 9	6°32	17°20	24°33	T 10
W 11	19 13 59	18° 9'02	9°57	3°45	11°56	1°59	18°30	7°51	13°30	8°58	4°34	8° 5	6°29	17°26	24°30	W 11
T 12	19 17 56	19° 6'17	22°33	5°34	13° 9	2°39	18°36	7°56	13°33	8°59	4°35	8° 0	6°25	17°33	24°28	T 12
F 13	19 21 52	20° 3'32	4°58	7°21	14°22	3°19	18°41	8° 2	13°35	9° 0	4°37	7°53	6°22	17°40	24°26	F 13
S 14	19 25 49	21° 0'47	17°12	9° 6	15°35	3°59	18°46	8° 8	13°38	9° 1	4°39	7°45	6°19	17°47	24°23	S 14
S 15	19 29 45	21°58'02	29°17	10°49	16°48	4°39	18°51	8°14	13°40	9° 2	4°40	7°38	6°16	17°53	24°21	S 15
M 16	19 33 42	22°55'18	11°14	12°31	18° 0	5°19	18°56	8°20	13°43	9° 3	4°42	7°30	6°13	18° 0	24°18	M 16
T 17	19 37 38	23°52'34	23° 6	14°10	19°13	5°59	19° 0	8°26	13°46	9° 4	4°43	7°25	6° 9	18° 7	24°16	T 17
W 18	19 41 35	24°49'51	4°58	15°48	20°26	6°39	19° 5	8°32	13°49	9° 5	4°45	7°20	6° 6	18°13	24°13	W 18
T 19	19 45 31	25°47'08	16°53	17°23	21°39	7°18	19° 9	8°38	13°51	9° 6	4°47	7°18	6° 3	18°20	24°11	T 19
F 20	19 49 28	26°44'25	28°55	18°57	22°52	7°58	19°13	8°44	13°54	9° 6	4°48	7°D18	6° 0	18°27	24° 8	F 20
S 21	19 53 25	27°41'42	11°10	20°29	24° 5	8°38	19°17	8°51	13°57	9° 7	4°50	7°19	5°57	18°34	24° 5	S 21
S 22	19 57 21	28°39'00	23°42	21°59	25°17	9°17	19°21	8°57	14° 0	9° 8	4°52	7°20	5°54	18°40	24° 3	S 22
M 23	20 1 18	29°36'19	6°17	23°27	26°30	9°57	19°24	9° 3	14° 3	9° 9	4°54	7°R20	5°50	18°47	24° 0	M 23
T 24	20 5 14	0°33'57	19°57	24°54	27°43	10°37	19°28	9°10	14° 6	9° 9	4°55	7°20	5°47	18°54	23°57	T 24
W 25	20 9 11	1°30'58	3°44	26°18	28°55	11°16	19°31	9°16	14° 9	9°10	4°57	7°17	5°44	19° 0	23°54	W 25
T 26	20 13 7	2°28'18	17°56	27°40	0°8	11°56	19°34	9°23	14°12	9°10	4°59	7°12	5°41	19° 7	23°52	T 26
F 27	20 17 4	3°25'38	2°31	29° 1	1°21	12°35	19°37	9°29	14°15	9°11	5° 1	7° 5	5°38	19°14	23°49	F 27
S 28	20 21 0	4°23'00	17°22	0°19	2°33	13°15	19°39	9°36	14°18	9°12	5° 3	6°57	5°35	19°21	23°46	S 28
S 29	20 24 57	5°20'23	2°10	1°35	3°46	13°54	19°42	9°43	14°21	9°12	5° 4	6°48	5°31	19°27	23°43	S 29
M 30	20 28 54	6°17'46	17°15	2°49	4°58	14°33	19°44	9°49	14°24	9°13	5° 6	6°40	5°28	19°34	23°40	M 30
T 31	20 32 50	7°15'11	2°1	4°1	6°11	15°13	19°46	9°56	14°27	9°13	5° 8	6°13	5°25	19°41	23°37	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	23n12	9s14	5n 1	24n24	1n40	21n43	1n31	23n57	0n33	5n39	1s18	10n41	1n51	7n20	0n45	12n46
M 2	23 8	4 3	5 12	24 14	1 44	21 28	1 32	23 59	0 34	5 42	1 18	10 39	1 51	7 19	0 45	12 47
T 3	23 3	1n20	5 4	24 1	1 47	21 12	1 32	24 0	0 34	5 44	1 19	10 37	1 51	7 19	0 45	12 47
W 4	22 59	6 35	4 36	23 45	1 49	20 56	1 33	24 2	0 35	5 46	1 19	10 35	1 51	7 18	0 45	12 47
T 5	22 54	11 25	3 53	23 27	1 51	20 39	1 34	24 3	0 36	5 49	1 19	10 33	1 50	7 17	0 45	12 48
F 6	22 48	15 25	2 56	23 8	1 51	20 22	1 34	24 4	0 36	5 51	1 19	10 31	1 50	7 16	0 45	12 48
S 7	22 42	18 51	1 50	22 46	1 51	20 4	1 35	24 5	0 37	5 53	1 20	10 29	1 50	7 15	0 45	12 48
S 8	22 36	21 1	0 39	22 23	1 51	19 45	1 35	24 6	0 37	5 55	1 20	10 27	1 50	7 14	0 45	12 49
M 9	22 29	22 0	0s32	21 57	1 50	19 26	1 36	24 6	0 38	5 57	1 20	10 25	1 50	7 13	0 45	12 49
T 10	22 22	21 45	1 41	21 31	1 48	19 7	1 36	24 6	0 38	5 59	1 20	10 23	1 50	7 12	0 45	12 49
W 11	22 15	20 23	2 44	21 3	1 45	18 47	1 36	24 6	0 39	6 1	1 21	10 20	1 50	7 11	0 45	12 50
T 12	22 7	18 1	3 37	20 33	1 42	18 26	1 36	24 6	0 39	6 3	1 21	10 18	1 50	7 10	0 45	12 50
F 13	21 58	14 52	4 19	20 3	1 39	18 5	1 36	24 6	0 40	6 5	1 21	10 16	1 50	7 9	0 45	12 50
S 14	21 50	11 7	4 49	19 31	1 34	17 43	1 36	24 5	0 40	6 6	1 22	10 14	1 50	7 8	0 45	12 50
S 15	21 41	6 59	5 5	18 59	1 30	17 21	1 36	24 5	0 41	6 8	1 22	10 11	1 50	7 7	0 45	12 51
M 16	21 31	2 37	5 7	18 26	1 25	16 59	1 36	24 4	0 41	6 10	1 22	10 9	1 50	7 6	0 45	12 51
T 17	21 22	1s48	4 57	17 52	1 19	16 36	1 36	24 2	0 42	6 11	1 22	10 7	1 49	7 5	0 45	12 51
W 18	21 12	6 9	4 33	17 17	1 13	16 13	1 36	24 1	0 43	6 13	1 23	10 4	1 49	7 4	0 45	12 51
T 19	21 1	10 18	3 58	16 42	1 6	15 49	1 35	23 59	0 43	6 14	1 23	10 2	1 49	7 3	0 45	12 52
F 20	20 50	14 5	3 12	16 6	0 59	15 25	1 35	23 58	0 44	6 15	1 23	10 0	1 49	7 2	0 45	12 52
S 21	20 39	17 21	2 16	15 30	0 52	15 0	1 34	23 56	0 44	6 16	1 23	9 57	1 49	7 0	0 45	12 52
S 22	20 28	19 54	1 13	14 54	0 44	14 35	1 34	23 54	0 45	6 18	1 24	9 55	1 49	6 59	0 45	12 52
M 23	20 16	21 31	0 4	14 18	0 36	14 10	1 33	23 51	0 45	6 19	1 24	9 52	1 49	6 58	0 45	12 52
T 24	20 4	21 59	1n 7	13 41	0 28	13 44	1 32	23 49	0 46	6 20	1 24	9 50	1 49	6 57	0 44	12 52
W 25	19 51	21 9	2 17	13 4	0 19	13 18	1 32	23 46	0 46	6 21	1 24	9 47	1 49	6 56	0 44	12 53
T 26	19 38	18 58	3 20	12 28	0 10	12 51	1 31	23 43	0 47	6 21	1 25	9 45	1 49	6 55	0 44	12 53
F 27	19 25	15 33	4 11	11 51	0 1	12 25	1 30	23 40	0 47	6 22	1 25	9 42	1 49	6 53	0 44	12 53
S 28	19 12	11 5	4 47	11 15	0s 8	11 57	1 29	23 36	0 48	6 23	1 25	9 40	1 49	6 52	0 44	12 53
S 29	18 58	5 56	5 4	10 39	0 18	11 30	1 27	23 33	0 48	6 24	1 26	9 37	1 49	6 51	0 44	12 53
M 30	18 44	0 27	4 59	10 3	0 28	11 2	1 26	23 29	0 49	6 24	1 26	9 35	1 49	6 50	0 44	12 53
T 31	18n29	5n 1	4n35	9n27	0s38	10n35	1n25	23n25	0n49	6n25	1s26	9n32	1n49	6n49	0n44	12n53

Julian Day Number = 2347266.5, Delta T = 10.85 sec  
Ecliptic obliquity = 23°28'31", Nutation = 0°00'17", out-of-bounds declination in red  
Ayanamsha: Fagan/Bradley = 20°45'17, Lahiri = 19°52'17Greg. Calendar



# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

AUGUST 1714

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
W 1	20 36 47	8♌12'37	16♋30	5♊10	7♍23	15♄52	19♋48	10♎3	14♏31	9♏13	5♊10	6♒30	5♊22	19♏47	23♒34	W 1
T 2	20 40 43	9°10'04	0♋39	6°18	8°36	16°31	19°49	10°10	14°34	9°14	5°12	6♊28	5°19	19°54	23♋31	T 2
F 3	20 44 40	10° 7'33	14°27	7°22	9°48	17°10	19°51	10°16	14°37	9°14	5°14	6♒28	5°15	20° 1	23°28	F 3
S 4	20 48 36	11° 5'03	27°56	8°24	11° 0	17°49	19°52	10°23	14°40	9°14	5°16	6°28	5°12	20° 8	23°25	S 4
S 5	20 52 33	12° 2'34	11♋6	9°24	12°13	18°29	19°53	10°30	14°44	9°15	5°18	6♒29	5° 9	20°14	23°22	S 5
M 6	20 56 29	13° 0'07	24° 0	10°21	13°25	19° 8	19°54	10°37	14°47	9°15	5°20	6°27	5° 6	20°21	23°19	M 6
T 7	21 0 26	13°57'41	6♋42	11°14	14°37	19°47	19°55	10°44	14°50	9°15	5°22	6°24	5° 3	20°28	23°16	T 7
W 8	21 4 23	14°55'17	19°12	12° 5	15°50	20°26	19°55	10°51	14°54	9°15	5°24	6°17	5° 0	20°35	23°13	W 8
T 9	21 8 19	15°52'53	1♌33	12°52	17° 2	21° 5	19°55	10°58	14°57	9°15	5°26	6° 8	4°56	20°41	23°10	T 9
F 10	21 12 16	16°50'31	13°46	13°36	18°14	21°44	19°55	11° 5	15° 1	9°16	5°27	5°57	4°53	20°48	23° 7	F 10
S 11	21 16 12	17°48'11	25°51	14°17	19°26	22°22	19°55	11°12	15° 4	9°16	5°29	5°44	4°50	20°55	23° 4	S 11
S 12	21 20 9	18°45'51	7♊49	14°53	20°38	23° 1	19°55	11°19	15° 7	9°16	5°31	5°31	4°47	21° 1	23° 1	S 12
M13	21 24 5	19°43'33	19°43	15°26	21°51	23°40	19°54	11°27	15°11	9♒16	5°33	5°19	4°44	21° 8	22°58	M13
T 14	21 28 2	20°41'15	1♌34	15°54	23° 3	24°19	19°54	11°34	15°14	9°16	5°35	5° 8	4°41	21°15	22°55	T 14
W15	21 31 58	21°38'59	13°24	16°18	24°15	24°58	19°53	11°41	15°18	9°16	5°38	5° 0	4°37	21°22	22°52	W15
T 16	21 35 55	22°36'44	25°17	16°37	25°27	25°36	19°51	11°48	15°22	9°16	5°40	4°55	4°34	21°28	22°49	T 16
F 17	21 39 52	23°34'31	7♊17	16°52	26°39	26°15	19°50	11°56	15°25	9°15	5°42	4°52	4°31	21°35	22°46	F 17
S 18	21 43 48	24°32'18	19°29	17° 1	27°51	26°54	19°49	12° 3	15°29	9°15	5°44	4°51	4°28	21°42	22°42	S 18
S 19	21 47 45	25°30'07	1♊58	17°R 4	29° 3	27°32	19°47	12°10	15°32	9°15	5°46	4°51	4°25	21°48	22°39	S 19
M20	21 51 41	26°27'57	14°49	17° 3	0♌14	28°11	19°45	12°18	15°36	9°15	5°48	4°51	4°21	21°55	22°36	M20
T 21	21 55 38	27°25'48	28° 6	16°55	1°26	28°49	19°43	12°25	15°40	9°15	5°50	4°49	4°18	22° 2	22°33	T 21
W22	21 59 34	28°23'41	11♋52	16°41	2°38	29°27	19°40	12°32	15°43	9°14	5°52	4°46	4°15	22° 9	22°30	W22
T 23	22 3 31	29°21'34	26° 8	16°22	3°50	0♌6	19°38	12°40	15°47	9°14	5°54	4°39	4°12	22°15	22°27	T 23
F 24	22 7 27	0♎19'29	10♋51	15°56	5° 1	0°44	19°35	12°47	15°50	9°14	5°56	4°31	4° 9	22°22	22°24	F 24
S 25	22 11 24	1°17'26	25°54	15°25	6°13	1°23	19°32	12°55	15°54	9°13	5°58	4°20	4° 6	22°29	22°21	S 25
S 26	22 15 21	2°15'24	11♋9	14°47	7°25	2° 1	19°29	13° 2	15°58	9°13	6° 0	4° 9	4° 2	22°35	22°18	S 26
M27	22 19 17	3°13'23	26°24	14° 5	8°36	2°39	19°26	13° 9	16° 2	9°12	6° 2	3°59	3°59	22°42	22°15	M27
T 28	22 23 14	4°11'25	11♋28	13°18	9°48	3°17	19°22	13°17	16° 5	9°12	6° 4	3°51	3°56	22°49	22°12	T 28
W29	22 27 10	5° 9'28	26°13	12°26	10°59	3°55	19°19	13°24	16° 9	9°11	6° 6	3°45	3°53	22°56	22° 9	W29
T 30	22 31 7	6° 7'33	10♋34	11°32	12°11	4°34	19°15	13°32	16°13	9°11	6° 8	3°42	3°50	23° 2	22° 6	T 30
F 31	22 35 3	7♊5'41	24♋28	10♎35	13♌22	5♌12	19♋11	13♎39	16♏16	9♏10	6♊10	3♊40	3♊47	23♎9	22♋3	F 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
W 1	18n14	10n 5	3n54	8n52	0s49	10n 6	1n24	23n21	0n50	6n25	1s26	9n29	1n49	6n47	0n44	12n53	1s48	21n33	12n52	21s26	21s14	0s32	7s17	6n46	
T 2	17 59	14 30	2 59	8 18	1 0	9 38	1 22	23 17	0 50	6 26	1 27	9 27	1 49	6 46	0 44	12 53	1 48	21 33	12 52	21 25	21 13	0 35	7 18	6 46	
F 3	17 44	18 1	1 55	7 44	1 10	9 9	1 21	23 13	0 51	6 26	1 27	9 24	1 49	6 45	0 44	12 53	1 48	21 32	12 52	21 25	21 13	0 37	7 19	6 47	
S 4	17 28	20 28	0 45	7 10	1 21	8 40	1 19	23 8	0 51	6 26	1 27	9 21	1 49	6 43	0 44	12 53	1 48	21 31	12 52	21 25	21 12	0 39	7 19	6 47	
S 5	17 12	21 44	0s25	6 38	1 32	8 11	1 17	23 3	0 52	6 26	1 27	9 19	1 48	6 42	0 44	12 53	1 48	21 30	12 52	21 25	21 11	0 42	7 20	6 47	
M 6	16 56	21 49	1 32	6 6	1 43	7 42	1 16	22 58	0 52	6 26	1 28	9 16	1 48	6 41	0 44	12 53	1 48	21 29	12 52	21 25	21 11	0 44	7 21	6 47	
T 7	16 40	20 45	2 33	5 36	1 54	7 12	1 14	22 53	0 53	6 26	1 28	9 13	1 48	6 39	0 44	12 53	1 48	21 28	12 52	21 25	21 10	0 47	7 22	6 47	
W 8	16 23	18 42	3 26	5 6	2 6	6 42	1 12	22 48	0 53	6 26	1 28	9 11	1 48	6 38	0 44	12 53	1 48	21 28	12 52	21 23	21 10	0 49	7 23	6 47	
T 9	16 6	15 48	4 9	4 38	2 17	6 12	1 10	22 42	0 54	6 26	1 29	9 8	1 48	6 37	0 44	12 53	1 48	21 27	12 52	21 22	21 9	0 51	7 24	6 47	
F 10	15 49	12 16	4 39	4 11	2 28	5 42	1 8	22 37	0 54	6 26	1 29	9 5	1 48	6 35	0 44	12 53	1 48	21 26	12 52	21 20	21 9	0 54	7 25	6 47	
S 11	15 31	8 16	4 56	3 45	2 39	5 12	1 6	22 31	0 55	6 26	1 29	9 3	1 48	6 34	0 44	12 53	1 48	21 25	12 51	21 18	21 8	0 56	7 26	6 47	
S 12	15 13	4 0	5 1	3 21	2 50	4 42	1 4	22 25	0 55	6 25	1 29	9 0	1 48	6 33	0 44	12 53	1 48	21 24	12 51	21 15	21 7	0 59	7 27	6 47	
M13	14 55	0s24	4 52	2 58	3 1	4 11	1 2	22 19	0 56	6 25	1 30	8 57	1 48	6 31	0 44	12 53	1 48	21 24	12 51	21 13	21 7	1 1	7 28	6 47	
T 14	14 37	4 45	4 30	2 37	3 12	3 40	0 59	22 13	0 56	6 24	1 30	8 54	1 48	6 30	0 44	12 53	1 49	21 23	12 51	21 11	21 6	1 4	7 29	6 47	
W15	14 19	8 56	3 57	2 19	3 22	3 10	0 57	22 6	0 57	6 24	1 30	8 52	1 48	6 29	0 44	12 53	1 49	21 22	12 51	21 10	21 6	1 6	7 30	6 47	
T 16	14 0	12 47	3 13	2 2	3 32	2 39	0 55	21 59	0 57	6 23	1 30	8 49	1 48	6 27	0 44	12 53	1 49	21 21	12 51	21 9	21 5	1 8	7 31	6 47	
F 17	13 41	16 11	2 20	1 48	3 42	2 8	0 52	21 53	0 58	6 22	1 31	8 46	1 48	6 26	0 44	12 53	1 49	21 20	12 51	21 8	21 5	1 11	7 32	6 46	
S 18	13 22	18 55	1 20	1 36	3 51	1 37	0 50	21 46	0 58	6 21	1 31	8 43	1 48	6 24	0 44	12 53	1 49	21 20	12 51	21 8	21 4	1 13	7 33	6 46	
S 19	13 2	20 50	0 15	1 27	3 59	1 6	0 47	21 39	0 59	6 20	1 31	8 40	1 48	6 23	0 44	12 53	1 49	21 19	12 51	21 8	21 3	1 16	7 34	6 46	
M20	12 43	21 44	0n52	1 20	4 7	0 35	0 44	21 31	0 59	6 19	1 31	8 38	1 48	6 22	0 44	12 53	1 49	21 18	12 51	21 8	21 3	1 18	7 35	6 46	
T 21	12 23	21 28	2 0	1 17	4 14	0 4	0 42	21 24	1 0	6 18	1 32	8 35	1 48	6 20	0 44	12 52	1 49	21 17	12 51	21 8	21 2	1 20	7 36	6 46	
W22	12 3	19 55	3 2	1 17	4 20	0s27	0 39	21 17	1 0	6 17	1 32	8 32	1 48	6 19	0 44	12 52	1 49	21 17	12 51	21 7	21 2	1 23	7 38	6 46	
T 23	11 43	17 6	3 56	1 20	4 24	0 58	0 36	21 9	1 1	6 16	1 32	8 29	1 48	6 17	0 44	12 52	1 49	21 16	12 51	21 6	21 1	1 25	7 39	6 46	
F 24	11 22	13 7	4 35	1 26	4 28	1 29	0 33	21 1	1 1	6 15	1 32	8 26	1 48	6 16	0 44	12 52	1 49	21 15	12 51	21 4	21 0	1 27	7 40	6 46	
S 25	11 2	8 14	4 57	1 36	4 30	2 1	0 30	20 53	1 2	6 14	1 33	8 23	1 48	6 15	0 44	12 52	1 49	21 14	12 51	21 3	21 0	1 30	7 41	6 46	
S 26	10 41	2 48	4 58	1 50	4 31	2 32	0 27	20 45	1 2	6 12	1 33	8 21	1 48	6 13	0 44	12 52	1 49	21 14	12 51	21 1	20 59	1 32	7 42	6 46	
M27	10 20	2n49	4 38	2 7	4 30	3 3	0 24	20 37	1 2	6 11	1 33	8 18	1 48	6 12	0 44	12 51	1 49	21 13	12 51	20 59	20 59	1 35	7 43	6 46	
T 28	9 59	8 12	3 59	2 28	4 27	3 34	0 21	20 28	1 3	6 9	1 33	8 15	1 48	6 10	0 44	12 51	1 49	21 12	12 51	20 57	20 58	1 37	7 44	6 45	
W29	9 38	12 59	3 4	2 51	4 23	4 5	0 18	20 20	1 3	6 8	1 34	8 12	1 48	6 9	0 44	12 51	1 49	21 11	12 52	20 56	20 57	1 39	7 45	6 45	
T 30	9 17	16 54	1 59	3 18	4 16	4 36	0 15	20 11	1 4	6 6	1 34	8 9	1 48	6 7	0 44	12 51	1 49	21 11	12 52	20 55	20 57	1 42	7 46	6 45	
F 31	8n55	19n42	0n49	3n48	4s 8	5s 6	0n11	20n 2	1n 4	6n 4	1s34	8n 6	1n49	6n 6	0n44	12n51	1s50	21n10	12n52	20s55	20s56	1s44	7s47	6n45	

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

SEPTEMBER 1714

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 39 0	8 <sup>h</sup> 3'50	7 <sup>h</sup> 56	9 <sup>h</sup> R36	14 <sup>h</sup> 33	5 <sup>h</sup> 50	19 <sup>h</sup> R 7	13 <sup>h</sup> 47	16 <sup>h</sup> 20	9 <sup>h</sup> R10	6 <sup>h</sup> 13	3 <sup>h</sup> R40	3 <sup>h</sup> 43	23 <sup>h</sup> 16	22 <sup>h</sup> R 0	S 1
S 2	22 42 56	9° 2'02	21° 2	8 <sup>h</sup> 38	15° 45	6° 28	19 <sup>h</sup> 2	13° 54	16° 24	9 <sup>h</sup> 8	6° 15	3 <sup>h</sup> 40	3° 40	23° 22	21° 57	S 2
M 3	22 46 53	10° 0'15	3 <sup>h</sup> 48	7° 41	16° 56	7° 6	18° 58	14° 2	16° 28	9° 8	6° 17	3° 38	3° 37	23° 29	21° 54	M 3
T 4	22 50 49	10° 58'31	16° 19	6° 47	18° 7	7° 44	18° 53	14° 9	16° 31	9° 8	6° 19	3° 34	3° 34	23° 36	21° 51	T 4
W 5	22 54 46	11° 56'48	28° 37	5° 56	19° 18	8° 22	18° 48	14° 17	16° 35	9° 7	6° 21	3° 27	3° 31	23° 43	21° 49	W 5
T 6	22 58 43	12° 55'08	10 <sup>h</sup> 47	5° 11	20° 29	9° 0	18° 43	14° 24	16° 39	9° 6	6° 23	3° 18	3° 27	23° 49	21° 46	T 6
F 7	23 2 39	13° 53'29	22° 49	4° 31	21° 40	9° 37	18° 38	14° 32	16° 43	9° 6	6° 25	3° 6	3° 24	23° 56	21° 43	F 7
S 8	23 6 36	14° 51'52	4 <sup>h</sup> 46	3° 59	22° 51	10° 15	18° 32	14° 39	16° 47	9° 5	6° 27	2° 52	3° 21	24° 3	21° 40	S 8
S 9	23 10 32	15° 50'17	16° 40	3° 35	24° 2	10° 53	18° 27	14° 47	16° 50	9° 4	6° 29	2° 38	3° 18	24° 9	21° 37	S 9
M10	23 14 29	16° 48'44	28° 31	3° 20	25° 13	11° 31	18° 21	14° 55	16° 54	9° 3	6° 31	2° 25	3° 15	24° 16	21° 35	M10
T 11	23 18 25	17° 47'13	10 <sup>h</sup> 22	3° D13	26° 24	12° 8	18° 15	15° 2	16° 58	9° 2	6° 33	2° 14	3° 12	24° 23	21° 32	T 11
W12	23 22 22	18° 45'44	22° 14	3° 16	27° 35	12° 46	18° 9	15° 10	17° 2	9° 1	6° 35	2° 5	3° 8	24° 30	21° 29	W12
T 13	23 26 18	19° 44'16	4 <sup>h</sup> 9	3° 29	28° 46	13° 24	18° 3	15° 17	17° 5	9° 0	6° 37	1° 59	3° 5	24° 36	21° 27	T 13
F 14	23 30 15	20° 42'50	16° 11	3° 51	29° 56	14° 1	17° 57	15° 25	17° 9	8° 59	6° 39	1° 56	3° 2	24° 43	21° 24	F 14
S 15	23 34 12	21° 41'26	28° 23	4° 22	1 <sup>h</sup> 7	14° 39	17° 50	15° 32	17° 13	8° 58	6° 41	1° D54	2° 59	24° 50	21° 22	S 15
S 16	23 38 8	22° 40'04	10 <sup>h</sup> 50	5° 2	2° 18	15° 16	17° 44	15° 40	17° 17	8° 57	6° 43	1° 55	2° 56	24° 56	21° 19	S 16
M17	23 42 5	23° 38'44	23° 37	5° 50	3° 28	15° 53	17° 37	15° 47	17° 21	8° 56	6° 45	1° R55	2° 52	25° 3	21° 17	M17
T 18	23 46 1	24° 37'25	6 <sup>h</sup> 48	6° 47	4° 39	16° 31	17° 30	15° 55	17° 24	8° 55	6° 47	1° 54	2° 49	25° 10	21° 14	T 18
W19	23 49 58	25° 36'07	20° 27	7° 50	5° 49	17° 8	17° 23	16° 2	17° 28	8° 54	6° 49	1° 52	2° 46	25° 17	21° 12	W19
T 20	23 53 54	26° 34'52	4 <sup>h</sup> 35	9° 1	6° 59	17° 46	17° 16	16° 10	17° 32	8° 53	6° 51	1° 47	2° 43	25° 23	21° 10	T 20
F 21	23 57 51	27° 33'38	19° 11	10° 17	8° 9	18° 23	17° 9	16° 17	17° 36	8° 52	6° 53	1° 40	2° 40	25° 30	21° 7	F 21
S 22	0 1 47	28° 32'26	4 <sup>h</sup> 11	11° 39	9° 20	19° 0	17° 2	16° 24	17° 39	8° 51	6° 55	1° 31	2° 37	25° 37	21° 5	S 22
S 23	0 5 44	29° 31'16	19° 26	13° 6	10° 30	19° 37	16° 55	16° 32	17° 43	8° 49	6° 57	1° 22	2° 33	25° 43	21° 3	S 23
M24	0 9 41	0 <sup>h</sup> 30'07	4 <sup>h</sup> 46	14° 37	11° 40	20° 14	16° 47	16° 39	17° 47	8° 48	6° 59	1° 13	2° 30	25° 50	21° 1	M24
T 25	0 13 37	1° 29'01	20° 0	16° 11	12° 50	20° 51	16° 40	16° 47	17° 50	8° 47	7° 1	1° 6	2° 27	25° 57	20° 59	T 25
W26	0 17 34	2° 27'57	4 <sup>h</sup> 56	17° 49	13° 59	21° 29	16° 32	16° 54	17° 54	8° 46	7° 3	1° 1	2° 24	26° 4	20° 57	W26
T 27	0 21 30	3° 26'55	19° 29	19° 28	15° 9	22° 6	16° 25	17° 1	17° 58	8° 44	7° 5	0° 58	2° 21	26° 10	20° 55	T 27
F 28	0 25 27	4° 25'56	3 <sup>h</sup> 34	21° 10	16° 19	22° 43	16° 17	17° 9	18° 1	8° 43	7° 7	0° D58	2° 18	26° 17	20° 53	F 28
S 29	0 29 23	5° 24'59	17° 10	22° 53	17° 29	23° 19	16° 9	17° 16	18° 5	8° 42	7° 9	0° 58	2° 14	26° 24	20° 51	S 29
S 30	0 33 20	6 <sup>h</sup> 24'04	0 <sup>h</sup> 20	24 <sup>h</sup> 38	18 <sup>h</sup> 38	23 <sup>h</sup> 56	16 <sup>h</sup> 1	17 <sup>h</sup> 23	18 <sup>h</sup> 9	8 <sup>h</sup> 40	7 <sup>h</sup> 11	0° R59	2 <sup>h</sup> 11	26 <sup>h</sup> 30	20° 49	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	8n33	21n18	0s23	4n19	3s57	5s37	0n 8	19n53	1n 5	6n 2	1s34	8n 3	1n49	6n 4	0n44	12n50	1s50	21n 9	12n52	20s55	20s56	1s47	7s48	6n45			
S 2	8 12	21 40	1 30	4 52	3 45	6 8	0 5	19 44	1 5	6 1	1 34	8 1	1 49	6 3	0 44	12 50	1 50	21 8	12 52	20 55	20 55	1 49	7 49	6 45			
M 3	7 50	20 53	2 32	5 26	3 31	6 38	0 2	19 35	1 6	5 59	1 35	7 58	1 49	6 1	0 44	12 50	1 50	21 8	12 52	20 55	20 54	1 51	7 51	6 44			
T 4	7 28	19 5	3 25	6 1	3 15	7 9	0s 2	19 26	1 6	5 57	1 35	7 55	1 49	6 0	0 44	12 50	1 50	21 7	12 52	20 54	20 54	1 54	7 52	6 44			
W 5	7 5	16 26	4 7	6 35	2 59	7 39	0 5	19 16	1 7	5 55	1 35	7 52	1 49	5 58	0 44	12 49	1 50	21 6	12 52	20 53	20 53	1 56	7 53	6 44			
T 6	6 43	13 6	4 38	7 8	2 41	8 9	0 9	19 7	1 7	5 53	1 35	7 49	1 49	5 57	0 44	12 49	1 50	21 6	12 52	20 51	20 53	1 58	7 54	6 44			
F 7	6 21	9 16	4 55	7 40	2 22	8 39	0 12	18 57	1 8	5 50	1 36	7 46	1 49	5 56	0 44	12 49	1 50	21 5	12 52	20 48	20 52	2 1	7 55	6 44			
S 8	5 58	5 7	5 0	8 9	2 3	9 9	0 16	18 47	1 8	5 48	1 36	7 43	1 49	5 54	0 44	12 48	1 50	21 4	12 52	20 46	20 51	2 3	7 56	6 43			
S 9	5 36	0 48	4 51	8 36	1 43	9 38	0 19	18 38	1 8	5 46	1 36	7 40	1 49	5 53	0 44	12 48	1 50	21 4	12 53	20 43	20 51	2 6	7 57	6 43			
M10	5 13	3s33	4 30	9 0	1 24	10 8	0 23	18 28	1 9	5 44	1 36	7 38	1 49	5 51	0 44	12 48	1 50	21 3	12 53	20 41	20 50	2 8	7 58	6 43			
T 11	4 50	7 45	3 57	9 20	1 4	10 37	0 27	18 17	1 9	5 41	1 36	7 35	1 49	5 50	0 44	12 47	1 50	21 2	12 53	20 38	20 50	2 10	7 59	6 43			
W12	4 27	11 40	3 14	9 37	0 45	11 6	0 30	18 7	1 10	5 39	1 36	7 32	1 49	5 48	0 44	12 47	1 50	21 2	12 53	20 37	20 49	2 13	8 0	6 42			
T 13	4 4	15 9	2 22	9 49	0 27	11 35	0 34	17 57	1 10	5 36	1 37	7 29	1 49	5 47	0 44	12 47	1 50	21 1	12 53	20 35	20 48	2 15	8 1	6 42			
F 14	3 41	18 1	1 23	9 57	0 10	12 3	0 38	17 46	1 11	5 34	1 37	7 26	1 49	5 45	0 44	12 46	1 50	21 0	12 53	20 35	20 48	2 17	8 2	6 42			
S 15	3 18	20 8	0 19	10 1	0n 6	12 32	0 41	17 36	1 11	5 31	1 37	7 23	1 49	5 44	0 44	12 46	1 50	21 0	12 53	20 34	20 47	2 20	8 3	6 41			
S 16	2 55	21 19	0n47	10 1	0 22	13 0	0 45	17 25	1 12	5 28	1 37	7 20	1 49	5 42	0 44	12 46	1 50	20 59	12 54	20 35	20 47	2 22	8 4	6 41			
M17	2 32	21 27	1 53	9 57	0 36	13 27	0 49	17 15	1 12	5 26	1 37	7 18	1 49	5 41	0 44	12 45	1 50	20 58	12 54	20 35	20 46	2 24	8 5	6 41			
T 18	2 8	20 24	2 55	9 48	0 49	13 55	0 53	17 4	1 13	5 23	1 37	7 15	1 49	5 39	0 44	12 45	1 50	20 58	12 54	20 34	20 45	2 27	8 7	6 41			
W19	1 45	18 9	3 48	9 35	1 1	14 22	0 56	16 53	1 13	5 20	1 37	7 12	1 50	5 38	0 44	12 44	1 50	20 57	12 54	20 34	20 45	2 29	8 8	6 40			
T 20	1 22	14 46	4 30	9 18	1 11	14 49	1 0	16 42	1 13	5 18	1 37	7 9	1 50	5 36	0 44	12 44	1 51	20 57	12 54	20 33	20 44	2 31	8 9	6 40			
F 21	0 58	10 24	4 57	8 58	1 21	15 15	1 4	16 31	1 14	5 15	1 38	7 6	1 50	5 35	0 44	12 44	1 51	20 56	12 54	20 32	20 43	2 34	8 10	6 40			
S 22	0 35	5 17	5 3	8 34	1 29	15 41	1 8	16 20	1 14	5 12	1 38	7 3	1 50	5 33	0 44	12 43	1 51	20 56	12 55	20 30	20 43	2 36	8 11	6 39			
S 23	0 11	0n15	4 49	8 7	1 36	16 7	1 11	16 8	1 15	5 9	1 38	7 1	1 50	5 32	0 44	12 43	1 51	20 55	12 55	20 28	20 42	2 38	8 12	6 39			
M24	0s12	5 47	4 14	7 37	1 41	16 33	1 15	15 57	1 15	5 6	1 38	6 58	1 50	5 31	0 44	12 42	1 51	20 54	12 55	20 26	20 42	2 41	8 13	6 39			
T 25	0 35	10 55	3 21	7 5	1 46	16 58	1 19	15 45	1 16	5 3	1 38	6 55	1 50	5 29	0 44	12 42	1 51	20 54	12 55	20 25	20 41	2 43	8 14	6 38			
W26	0 59	15 18	2 15	6 30	1 49	17 22	1 23	15 34	1 16	5 0	1 38	6 52	1 50	5 28	0 44	12 42	1 51	20 53	12 56	20 24	20 40	2 45	8 15	6 38			
T 27	1 22	18 36	1 1	5 53	1 52	17 47	1 26	15 22	1 16	4 57	1 38	6 50	1 50	5 26	0 44	12 41	1 51	20 53	12 56	20 23	20 40	2 48	8 15	6 38			
F 28	1 46	20 40	0s14	5 15	1 53	18 11	1 30	15 11	1 17	4 54	1 38	6 47	1 50	5 25	0 44	12 41	1 51	20 52	12 56	20 23	20 39	2 50	8 16	6 37			
S 29	2 9	21 26	1 26	4 34	1 54	18 34	1 34	14 59	1 17	4 51	1 38	6 44	1 51	5 23	0 44	12 40	1 51	20 52	12 56	20 23	20 38	2 52	8 17	6 37			
S 30	2s33	20n58	2s31	3n53	1n54	18s57	1s37	14n47	1n18	4n48	1s38	6n41	1n51	5n22	0n44	12n40	1s51	20n51	12n57	20s23	20s38	2s55	8s18	6n37			

## ASTRODIENST EPHEMERIS for the year 1714

geocentric

OCTOBER 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 37 16	7♂23'11	13♂7	26♂23	19♂48	24♂33	15°R53	17♂30	18♂12	8°R39	7♂12	0°R59	2♂8	26♂37	20°R47	M 1
T 2	0 41 13	8°22'21	25°35	28°9	20°57	25°10	15°Y45	17°38	18°16	8♂38	7°14	0♂58	2°5	26°44	20°45	T 2
W 3	0 45 10	9°21'33	7♂49	29°56	22°6	25°47	15°37	17°45	18°20	8°36	7°16	0°54	2°2	26°51	20°43	W 3
T 4	0 49 6	10°20'48	19°52	1♂42	23°15	26°24	15°29	17°52	18°23	8°35	7°18	0°48	1°58	26°57	20°42	T 4
F 5	0 53 3	11°20'04	1♂49	3°29	24°24	27°0	15°21	17°59	18°27	8°33	7°20	0°40	1°55	27°4	20°40	F 5
S 6	0 56 59	12°19'23	13°42	5°15	25°33	27°37	15°13	18°6	18°30	8°32	7°22	0°31	1°52	27°11	20°39	S 6
S 7	1 0 56	13°18'44	25°33	7°1	26°42	28°14	15°5	18°13	18°34	8°30	7°23	0°21	1°49	27°17	20°37	S 7
M 8	1 4 52	14°18'07	7♂24	8°47	27°51	28°50	14°57	18°20	18°37	8°29	7°25	0°12	1°46	27°24	20°36	M 8
T 9	1 8 49	15°17'32	19°18	10°32	29°0	29°27	14°49	18°27	18°41	8°27	7°27	0°5	1°43	27°31	20°34	T 9
W10	1 12 45	16°17'00	1♂16	12°16	0♂8	0♂3	14°41	18°34	18°44	8°26	7°29	29♂59	1°39	27°37	20°33	W10
T 11	1 16 42	17°16'29	13°18	14°0	1°17	0°40	14°33	18°41	18°48	8°24	7°30	29°55	1°36	27°44	20°32	T 11
F 12	1 20 38	18°16'00	25°29	15°44	2°25	1°16	14°25	18°48	18°51	8°23	7°32	29°D54	1°33	27°51	20°30	F 12
S 13	1 24 35	19°15'33	7♂49	17°27	3°34	1°52	14°16	18°55	18°55	8°21	7°34	29°54	1°30	27°58	20°29	S 13
S 14	1 28 32	20°15'08	20°22	19°9	4°42	2°29	14°8	19°2	18°58	8°20	7°35	29°55	1°27	28°4	20°28	S 14
M15	1 32 28	21°14'45	3♂11	20°51	5°50	3°5	14°0	19°9	19°1	8°18	7°37	29°57	1°23	28°11	20°27	M15
T 16	1 36 25	22°14'24	16°21	22°32	6°58	3°41	13°52	19°16	19°5	8°16	7°38	29°R58	1°20	28°18	20°26	T 16
W17	1 40 21	23°14'04	29°53	24°12	8°6	4°17	13°45	19°22	19°8	8°15	7°40	29°58	1°17	28°24	20°25	W17
T 18	1 44 18	24°13'46	13♂49	25°52	9°13	4°53	13°37	19°29	19°11	8°13	7°42	29°56	1°14	28°31	20°24	T 18
F 19	1 48 14	25°13'29	28°10	27°32	10°21	5°29	13°29	19°36	19°15	8°11	7°43	29°53	1°11	28°38	20°24	F 19
S 20	1 52 11	26°13'15	12♂52	29°10	11°28	6°5	13°21	19°42	19°18	8°10	7°45	29°49	1°8	28°45	20°23	S 20
S 21	1 56 7	27°13'02	27°51	0♂48	12°35	6°41	13°14	19°49	19°21	8°8	7°46	29°44	1°4	28°51	20°22	S 21
M22	2 0 4	28°12'50	12°Y58	2°26	13°42	7°17	13°6	19°55	19°24	8°7	7°48	29°39	1°1	28°58	20°22	M22
T 23	2 4 1	29°12'41	28°4	4°3	14°49	7°53	12°59	20°1	19°27	8°5	7°49	29°35	0°58	29°5	20°21	T 23
W24	2 7 57	0♂12'34	12♂59	5°39	15°56	8°28	12°51	20°8	19°30	8°3	7°50	29°33	0°55	29°11	20°21	W24
T 25	2 11 54	1°12'29	27°35	7°15	17°2	9°4	12°44	20°14	19°33	8°2	7°52	29°D32	0°52	29°18	20°20	T 25
F 26	2 15 50	2°12'25	11♂47	8°50	18°9	9°40	12°37	20°20	19°36	8°0	7°53	29°33	0°49	29°25	20°20	F 26
S 27	2 19 47	3°12'25	25°32	10°25	19°15	10°15	12°30	20°27	19°39	7°58	7°55	29°34	0°45	29°31	20°20	S 27
S 28	2 23 43	4°12'26	8♂49	12°0	20°21	10°51	12°23	20°33	19°42	7°56	7°56	29°36	0°42	29°38	20°19	S 28
M29	2 27 40	5°12'29	21°43	13°34	21°26	11°27	12°16	20°39	19°45	7°55	7°57	29°37	0°39	29°45	20°19	M29
T 30	2 31 36	6°12'34	4♂15	15°7	22°32	12°2	12°9	20°45	19°48	7°53	7°58	29°R38	0°36	29°52	20°19	T 30
W31	2 35 33	7♂12'42	16♂30	16♂40	23♂37	12♂37	12°Y2	20♂51	19♂51	7♂51	8♂0	29♂37	0♂33	29♂58	20°D19	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
M 1	2s56	19n24	3s26	3n10	1n53	19s20	1s41	14n35	1n18	4n45	1s38	6n38	1n51	5n21	0n44	12n39
T 2	3 20	16 57	4 11	2 27	1 52	19 42	1 45	14 23	1 19	4 42	1 38	6 36	1 51	5 19	0 44	12 39
W 3	3 43	13 47	4 42	1 42	1 50	20 4	1 48	14 11	1 19	4 39	1 38	6 33	1 51	5 18	0 44	12 38
T 4	4 6	10 6	5 1	0 58	1 47	20 25	1 52	13 59	1 19	4 36	1 38	6 30	1 51	5 16	0 44	12 38
F 5	4 29	6 4	5 7	0 12	1 44	20 46	1 55	13 47	1 20	4 33	1 38	6 28	1 51	5 15	0 44	12 37
S 6	4 53	1 49	4 59	0s33	1 40	21 6	1 59	13 35	1 20	4 29	1 38	6 25	1 51	5 14	0 44	12 37
S 7	5 16	2s29	4 38	1 19	1 36	21 26	2 2	13 22	1 21	4 26	1 38	6 22	1 51	5 12	0 44	12 36
M 8	5 39	6 42	4 5	2 5	1 32	21 45	2 6	13 10	1 21	4 23	1 38	6 20	1 52	5 11	0 44	12 36
T 9	6 2	10 40	3 22	2 50	1 27	22 4	2 9	12 57	1 22	4 20	1 38	6 17	1 52	5 10	0 44	12 35
W10	6 25	14 15	2 29	3 36	1 22	22 22	2 13	12 45	1 22	4 17	1 38	6 14	1 52	5 8	0 44	12 35
T 11	6 48	17 16	1 29	4 21	1 17	22 40	2 16	12 32	1 22	4 14	1 38	6 12	1 52	5 7	0 44	12 34
F 12	7 10	19 33	0 24	5 6	1 11	22 57	2 19	12 20	1 23	4 11	1 38	6 9	1 52	5 6	0 44	12 34
S 13	7 33	20 56	0n43	5 51	1 5	23 13	2 22	12 7	1 23	4 8	1 38	6 7	1 52	5 4	0 44	12 33
S 14	7 56	21 19	1 49	6 36	0 59	23 29	2 25	11 55	1 24	4 5	1 38	6 4	1 52	5 3	0 44	12 33
M15	8 18	20 35	2 51	7 20	0 53	23 45	2 28	11 42	1 24	4 2	1 38	6 2	1 53	5 2	0 44	12 32
T 16	8 40	18 44	3 46	8 3	0 47	24 0	2 31	11 29	1 25	3 59	1 38	5 59	1 53	5 0	0 44	12 32
W17	9 2	15 48	4 30	8 46	0 40	24 14	2 34	11 16	1 25	3 56	1 38	5 57	1 53	4 59	0 44	12 31
T 18	9 25	11 55	5 0	9 29	0 34	24 27	2 37	11 4	1 25	3 53	1 38	5 54	1 53	4 58	0 44	12 31
F 19	9 46	7 15	5 12	10 11	0 27	24 40	2 40	10 51	1 26	3 50	1 38	5 52	1 53	4 57	0 44	12 30
S 20	10 8	2 3	5 4	10 52	0 21	24 53	2 43	10 38	1 26	3 47	1 37	5 49	1 53	4 55	0 44	12 30
S 21	10 30	3n21	4 35	11 33	0 14	25 4	2 45	10 25	1 27	3 44	1 37	5 47	1 53	4 54	0 44	12 29
M22	10 51	8 37	3 48	12 13	0 7	25 15	2 48	10 12	1 27	3 41	1 37	5 44	1 54	4 53	0 44	12 28
T 23	11 13	13 21	2 44	12 53	0 1	25 26	2 51	9 59	1 28	3 38	1 37	5 42	1 54	4 52	0 44	12 28
W24	11 34	17 11	1 30	13 31	0s6	25 36	2 53	9 46	1 28	3 36	1 37	5 40	1 54	4 50	0 44	12 27
T 25	11 55	19 49	0 11	14 9	0 13	25 45	2 55	9 33	1 28	3 33	1 37	5 37	1 54	4 49	0 44	12 27
F 26	12 15	21 8	1s7	14 47	0 20	25 53	2 57	9 20	1 29	3 30	1 37	5 35	1 54	4 48	0 44	12 26
S 27	12 36	21 6	2 18	15 23	0 26	26 1	3 0	9 7	1 29	3 28	1 36	5 33	1 55	4 47	0 44	12 26
S 28	12 56	19 52	3 19	15 59	0 33	26 9	3 2	8 53	1 30	3 25	1 36	5 30	1 55	4 46	0 44	12 25
M29	13 17	17 38	4 9	16 34	0 40	26 15	3 4	8 40	1 30	3 23	1 36	5 28	1 55	4 45	0 44	12 25
T 30	13 37	14 37	4 45	17 8	0 46	26 21	3 5	8 27	1 30	3 20	1 36	5 26	1 55	4 44	0 45	12 24
W31	13s56	11n2	5s7	17s41	0s53	26s26	3s7	8n14	1n31	3n18	1s36	5n24	1n55	4n42	0n45	12n24

Julian Day Number = 2347358.5, Delta T = 10.82 sec

Ecliptic obliquity = 23°28'31", Nutation = 0°00'15", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°45'30", Lahiri = 19°52'30"Greg. Calendar

# ASTRODIENST EPHEMERIS for the year 1714

## geocentric

NOVEMBER 1714

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 39 30	8♈12°51	28♈32	18♈13	24♈43	13♈13	11°R56	20♈57	19♈54	7°R50	8♈1	29°R36	0♈29	0♈5	20°19	T 1
F 2	2 43 26	9°13'03	10♈27	19°45	25°48	13°48	11°Y50	21° 3	19°57	7♈48	8° 2	29♈34	0°26	0°12	20°19	F 2
S 3	2 47 23	10°13'16	22°18	21°17	26°52	14°23	11°43	21° 9	20° 0	7°46	8° 3	29°31	0°23	0°18	20°19	S 3
S 4	2 51 19	11°13'32	4♈ 9	22°49	27°57	14°58	11°37	21°14	20° 2	7°45	8° 4	29°27	0°20	0°25	20°20	S 4
M 5	2 55 16	12°13'49	16° 3	24°20	29° 1	15°34	11°31	21°20	20° 5	7°43	8° 6	29°25	0°17	0°32	20°20	M 5
T 6	2 59 12	13°14'09	28° 2	25°51	0♈ 5	16° 9	11°26	21°26	20° 8	7°41	8° 7	29°22	0°14	0°39	20°20	T 6
W 7	3 3 9	14°14'30	10♈ 8	27°21	1° 9	16°44	11°20	21°31	20°10	7°40	8° 8	29°20	0°10	0°45	20°21	W 7
T 8	3 7 5	15°14'53	22°24	28°51	2°12	17°19	11°14	21°37	20°13	7°38	8° 9	29°20	0° 7	0°52	20°21	T 8
F 9	3 11 2	16°15'18	4♈49	0♈21	3°16	17°53	11° 9	21°42	20°15	7°36	8°10	29°D19	0° 4	0°59	20°22	F 9
S 10	3 14 59	17°15'44	17°26	1°50	4°19	18°28	11° 4	21°47	20°18	7°35	8°11	29°20	0° 1	1° 5	20°22	S 10
S 11	3 18 55	18°16'12	0♈15	3°19	5°21	19° 3	10°59	21°53	20°20	7°33	8°12	29°21	29♈58	1°12	20°23	S 11
M12	3 22 52	19°16'41	13°18	4°48	6°24	19°38	10°54	21°58	20°23	7°31	8°13	29°22	29°55	1°19	20°24	M12
T 13	3 26 48	20°17'11	26°36	6°16	7°26	20°12	10°50	22° 3	20°25	7°30	8°14	29°23	29°51	1°25	20°24	T 13
W14	3 30 45	21°17'43	10♈10	7°43	8°27	20°47	10°45	22° 8	20°27	7°28	8°14	29°23	29°48	1°32	20°25	W14
T 15	3 34 41	22°18'16	24° 1	9°10	9°29	21°21	10°41	22°13	20°29	7°26	8°15	29°R24	29°45	1°39	20°26	T 15
F 16	3 38 38	23°18'50	8♈ 9	10°37	10°29	21°55	10°37	22°18	20°32	7°25	8°16	29°23	29°42	1°46	20°27	F 16
S 17	3 42 34	24°19'26	22°31	12° 2	11°30	22°30	10°33	22°23	20°34	7°23	8°17	29°23	29°39	1°52	20°28	S 17
S 18	3 46 31	25°20'02	7♈ 5	13°27	12°30	23° 4	10°29	22°27	20°36	7°22	8°18	29°22	29°35	1°59	20°29	S 18
M19	3 50 28	26°20'40	21°46	14°52	13°30	23°38	10°26	22°32	20°38	7°20	8°18	29°22	29°32	2° 6	20°31	M19
T 20	3 54 24	27°21'19	6♈28	16°15	14°29	24°12	10°23	22°37	20°40	7°18	8°19	29°22	29°29	2°12	20°32	T 20
W21	3 58 21	28°21'59	21° 4	17°37	15°28	24°46	10°20	22°41	20°42	7°17	8°20	29°22	29°26	2°19	20°33	W21
T 22	4 2 17	29°22'41	5♈28	18°58	16°27	25°20	10°17	22°45	20°44	7°15	8°20	29°22	29°23	2°26	20°35	T 22
F 23	4 6 14	0♈23'24	19°35	20°18	17°25	25°54	10°14	22°50	20°46	7°14	8°21	29°22	29°20	2°32	20°36	F 23
S 24	4 10 10	1°24'08	3♈20	21°36	18°22	26°28	10°12	22°54	20°48	7°12	8°21	29°22	29°16	2°39	20°37	S 24
S 25	4 14 7	2°24'54	16°41	22°53	19°19	27° 1	10° 9	22°58	20°49	7°11	8°22	29°21	29°13	2°46	20°39	S 25
M26	4 18 3	3°25'42	29°40	24° 7	20°15	27°35	10° 7	23° 2	20°51	7° 9	8°22	29°21	29°10	2°53	20°41	M26
T 27	4 22 0	4°26'30	12♈17	25°19	21°11	28° 8	10° 5	23° 6	20°53	7° 8	8°23	29°20	29° 7	2°59	20°42	T 27
W28	4 25 57	5°27'20	24°36	26°29	22° 7	28°42	10° 4	23°10	20°54	7° 6	8°23	29°20	29° 4	3° 6	20°44	W28
T 29	4 29 53	6°28'12	6♈41	27°36	23° 1	29°15	10° 2	23°14	20°56	7° 5	8°24	29°D20	29° 1	3°13	20°46	T 29
F 30	4 33 50	7♈29'05	18♈36	28♈39	23♈55	29♈49	10°Y 1	23♈17	20♈58	7♈ 4	8♈24	29♈20	28♈57	3♈19	20°48	F 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
T 1	14s16	7n 4	5s15	18s13	0s59	26s31	3s 9	8n 1	1n31	3n15	1s36	5n22	1n55	4n41	0n45	12n23
F 2	14 35	2 53	5 9	18 45	1 5	26 35	3 10	7 47	1 32	3 13	1 35	5 20	1 56	4 40	0 45	12 22
S 3	14 54	1s23	4 51	19 15	1 11	26 38	3 12	7 34	1 32	3 11	1 35	5 17	1 56	4 39	0 45	12 22
S 4	15 13	5 37	4 19	19 45	1 17	26 40	3 13	7 21	1 33	3 9	1 35	5 15	1 56	4 38	0 45	12 21
M 5	15 32	9 39	3 37	20 14	1 23	26 42	3 14	7 8	1 33	3 7	1 35	5 13	1 56	4 37	0 45	12 21
T 6	15 50	13 21	2 45	20 41	1 29	26 43	3 15	6 54	1 33	3 5	1 35	5 11	1 56	4 36	0 45	12 20
W 7	16 8	16 32	1 44	21 8	1 34	26 44	3 16	6 41	1 34	3 3	1 34	5 9	1 57	4 35	0 45	12 20
T 8	16 26	19 1	0 38	21 33	1 40	26 44	3 16	6 28	1 34	3 1	1 34	5 7	1 57	4 34	0 45	12 19
F 9	16 43	20 38	0n30	21 58	1 45	26 43	3 17	6 15	1 35	2 59	1 34	5 5	1 57	4 33	0 45	12 19
S 10	17 1	21 15	1 39	22 21	1 50	26 42	3 18	6 1	1 35	2 57	1 34	5 3	1 57	4 32	0 45	12 18
S 11	17 18	20 45	2 43	22 44	1 55	26 40	3 18	5 48	1 35	2 55	1 33	5 1	1 57	4 31	0 45	12 18
M12	17 34	19 9	3 40	23 5	1 59	26 37	3 18	5 35	1 36	2 54	1 33	5 0	1 58	4 30	0 45	12 17
T 13	17 51	16 30	4 27	23 25	2 4	26 34	3 18	5 22	1 36	2 52	1 33	4 58	1 58	4 30	0 45	12 17
W14	18 7	12 54	5 0	23 44	2 8	26 30	3 18	5 8	1 37	2 51	1 33	4 56	1 58	4 29	0 45	12 16
T 15	18 22	8 34	5 16	24 1	2 11	26 25	3 18	4 55	1 37	2 49	1 32	4 54	1 58	4 28	0 45	12 16
F 16	18 38	3 41	5 14	24 18	2 15	26 20	3 17	4 42	1 38	2 48	1 32	4 53	1 59	4 27	0 45	12 15
S 17	18 53	1n30	4 52	24 33	2 18	26 14	3 16	4 29	1 38	2 47	1 32	4 51	1 59	4 26	0 45	12 15
S 18	19 8	6 40	4 11	24 47	2 21	26 8	3 16	4 16	1 38	2 45	1 32	4 49	1 59	4 25	0 45	12 14
M19	19 22	11 29	3 14	24 59	2 23	26 1	3 15	4 3	1 39	2 44	1 31	4 48	1 59	4 25	0 45	12 14
T 20	19 36	15 39	2 4	25 10	2 25	25 54	3 14	3 49	1 39	2 43	1 31	4 46	1 59	4 24	0 45	12 13
W21	19 50	18 47	0 46	25 20	2 27	25 45	3 12	3 36	1 40	2 42	1 31	4 44	2 0	4 23	0 45	12 13
T 22	20 3	20 42	0s34	25 28	2 28	25 37	3 11	3 23	1 40	2 41	1 30	4 43	2 0	4 22	0 45	12 12
F 23	20 16	21 14	1 50	25 35	2 28	25 28	3 9	3 10	1 40	2 41	1 30	4 41	2 0	4 22	0 45	12 12
S 24	20 28	20 28	2 58	25 40	2 28	25 18	3 7	2 57	1 41	2 40	1 30	4 40	2 0	4 21	0 45	12 11
S 25	20 41	18 34	3 54	25 44	2 28	25 8	3 5	2 44	1 41	2 39	1 30	4 39	2 1	4 20	0 45	12 11
M26	20 52	15 45	4 36	25 47	2 26	24 57	3 3	2 31	1 42	2 39	1 29	4 37	2 1	4 20	0 45	12 10
T 27	21 4	12 17	5 3	25 48	2 24	24 46	3 0	2 18	1 42	2 38	1 29	4 36	2 1	4 19	0 45	12 10
W28	21 15	8 22	5 16	25 47	2 22	24 35	2 57	2 5	1 42	2 38	1 29	4 34	2 1	4 18	0 46	12 9
T 29	21 25	4 12	5 15	25 45	2 18	24 22	2 55	1 52	1 43	2 38	1 28	4 33	2 1	4 18	0 46	12 9
F 30	21s35	0s 5	5s 0	25s42	2s14	24s10	2s51	1n39	1n43	2n37	1s28	4n32	2n 2	4n17	0n46	12n 9

Julian Day Number = 2347389.5, Delta T = 10.81 sec

Ecliptic obliquity = 23°28'31", Nutation = 0°00'14", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 20°45'34", Lahiri = 19°52'34"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1714  
geocentric

DECEMBER 1714

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	4 37 46	8°29'59	0°27	29°38	24°49	0°22	10°R 0	23°21	20°59	7°R 2	8°24	29°21	28°54	3°26	20°50	S 1
S 2	4 41 43	9°30'54	12°19	0°32	25°42	0°55	9°V59	23°25	21° 0	7°R 1	8°25	29°22	28°51	3°33	20°51	S 2
M 3	4 45 39	10°31'51	24°14	1°21	26°34	1°28	9°59	23°28	21° 2	6°59	8°25	29°23	28°48	3°39	20°53	M 3
T 4	4 49 36	11°32'49	6°18	2° 5	27°25	2° 1	9°58	23°31	21° 3	6°58	8°25	29°24	28°45	3°46	20°56	T 4
W 5	4 53 32	12°33'48	18°33	2°41	28°16	2°33	9°D58	23°35	21° 4	6°57	8°26	29°25	28°41	3°53	20°58	W 5
T 6	4 57 29	13°34'49	1° 2	3°11	29° 6	3° 6	9°58	23°38	21° 6	6°56	8°26	29°R25	28°38	4° 0	21° 0	T 6
F 7	5 1 26	14°35'50	13°45	3°31	29°55	3°39	9°58	23°41	21° 7	6°54	8°26	29°24	28°35	4° 6	21° 2	F 7
S 8	5 5 22	15°36'52	26°44	3°43	0°43	4°11	9°59	23°44	21° 8	6°53	8°26	29°23	28°32	4°13	21° 4	S 8
S 9	5 9 19	16°37'55	9°35	3°R44	1°30	4°44	9°59	23°46	21° 9	6°52	8°26	29°21	28°29	4°20	21° 7	S 9
M10	5 13 15	17°38'58	23°25	3°35	2°17	5°16	10° 0	23°49	21°10	6°51	8°26	29°18	28°26	4°26	21° 9	M10
T 11	5 17 12	18°40'02	7° 4	3°14	3° 2	5°48	10° 1	23°52	21°11	6°49	8°R26	29°15	28°22	4°33	21°12	T 11
W12	5 21 8	19°41'07	20°54	2°42	3°47	6°20	10° 2	23°54	21°12	6°48	8°26	29°13	28°19	4°40	21°14	W12
T 13	5 25 5	20°42'12	4°53	1°58	4°30	6°52	10° 4	23°57	21°13	6°47	8°26	29°11	28°16	4°46	21°17	T 13
F 14	5 29 1	21°43'17	18°58	1° 3	5°12	7°24	10° 5	23°59	21°13	6°46	8°26	29°D10	28°13	4°53	21°19	F 14
S 15	5 32 58	22°44'22	3°V 8	29°59	5°53	7°56	10° 7	24° 1	21°14	6°45	8°26	29°11	28°10	5° 0	21°22	S 15
S 16	5 36 55	23°45'28	17°21	28°46	6°33	8°27	10° 9	24° 3	21°15	6°44	8°26	29°12	28° 7	5° 7	21°25	S 16
M17	5 40 51	24°46'34	1°35	27°27	7°12	8°59	10°12	24° 5	21°15	6°43	8°26	29°13	28° 3	5°13	21°27	M17
T 18	5 44 48	25°47'40	15°47	26° 5	7°49	9°30	10°14	24° 7	21°16	6°42	8°25	29°15	28° 0	5°20	21°30	T 18
W19	5 48 44	26°48'46	29°54	24°43	8°26	10° 1	10°17	24° 9	21°16	6°41	8°25	29°R15	27°57	5°27	21°33	W19
T 20	5 52 41	27°49'53	13°II54	23°22	9° 0	10°32	10°20	24°11	21°17	6°40	8°25	29°15	27°54	5°33	21°36	T 20
F 21	5 56 37	28°51'00	27°41	22° 6	9°33	11° 3	10°23	24°12	21°17	6°39	8°25	29°12	27°51	5°40	21°39	F 21
S 22	6 0 34	29°52'08	11°III13	20°57	10° 5	11°34	10°26	24°14	21°17	6°38	8°24	29° 8	27°47	5°47	21°42	S 22
S 23	6 4 30	0°35'16	24°28	19°57	10°35	12° 5	10°30	24°15	21°18	6°37	8°24	29° 3	27°44	5°53	21°45	S 23
M24	6 8 27	1°54'24	7°II24	19° 6	11° 4	12°35	10°33	24°17	21°18	6°37	8°23	28°57	27°41	6° 0	21°48	M24
T25	6 12 24	2°55'32	20° 1	18°26	11°31	13° 6	10°37	24°18	21°18	6°36	8°23	28°52	27°38	6° 7	21°51	T25
W26	6 16 20	3°56'41	2°II22	17°56	11°56	13°36	10°41	24°19	21°18	6°35	8°23	28°46	27°35	6°13	21°54	W26
T 27	6 20 17	4°57'50	14°29	17°37	12°19	14° 6	10°46	24°20	21°R18	6°34	8°22	28°43	27°32	6°20	21°57	T 27
F 28	6 24 13	5°59'00	26°25	17°D28	12°40	14°36	10°50	24°20	21°18	6°34	8°22	28°40	27°28	6°27	22° 1	F 28
S 29	6 28 10	7° 0'10	8°II16	17°28	13° 0	15° 6	10°55	24°21	21°18	6°33	8°21	28°D40	27°25	6°34	22° 4	S 29
S 30	6 32 6	8° 1'20	20° 7	17°37	13°17	15°36	10°59	24°22	21°18	6°32	8°20	28°41	27°22	6°40	22° 7	S 30
M31	6 36 3	9° 2'31	2°II 2	17°54	13°32	16° 5	11°V 4	24°II22	21°II18	6°32	8°20	28°II42	27°II19	6°47	22°11	M31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	decl	decl	decl	decl	decl	decl	decl	decl	decl	lat
S 1	21s45	4s20	4s32	25s37	2s 9	23s57	2s48	1n26	1n44	2n37	1s28	4n31	2n 2	4n17	0n46	12n 8	1s51	20n45	13n21	20s 2	19s57	5s16	8s43	6n10										
S 2	21 55	8 26	3 53	25 31	2 2	23 44	2 44	1 14	1 44	2 37	1 27	4 30	2 2	4 16	0 46	12 8	1 51	20 46	13 21	20 3	19 56	5 18	8 43	6 10										
M 3	22 4	12 15	3 3	25 23	1 55	23 30	2 41	1 1	1 45	2 37	1 27	4 29	2 3	4 16	0 46	12 7	1 51	20 46	13 22	20 3	19 55	5 20	8 43	6 9										
T 4	22 12	15 36	2 5	25 14	1 46	23 16	2 36	0 48	1 45	2 37	1 27	4 27	2 3	4 15	0 46	12 7	1 51	20 46	13 22	20 3	19 55	5 22	8 43	6 9										
W 5	22 20	18 20	1 0	25 3	1 37	23 1	2 32	0 36	1 45	2 38	1 27	4 26	2 3	4 15	0 46	12 7	1 51	20 47	13 23	20 3	19 54	5 24	8 42	6 8										
T 6	22 28	20 15	0n 9	24 52	1 26	22 47	2 28	0 23	1 46	2 38	1 26	4 25	2 4	4 14	0 46	12 6	1 51	20 47	13 23	20 3	19 53	5 27	8 42	6 8										
F 7	22 35	21 11	1 19	24 39	1 13	22 31	2 23	0 10	1 46	2 38	1 26	4 24	2 4	4 14	0 46	12 6	1 51	20 47	13 24	20 3	19 52	5 29	8 42	6 8										
S 8	22 42	21 1	2 25	24 25	1 0	22 16	2 18	0s 2	1 47	2 39	1 26	4 24	2 4	4 13	0 46	12 5	1 51	20 48	13 24	20 3	19 52	5 31	8 41	6 7										
S 9	22 48	19 41	3 26	24 10	0 44	22 0	2 12	0 15	1 47	2 39	1 25	4 23	2 4	4 13	0 46	12 5	1 51	20 48	13 25	20 2	19 51	5 33	8 41	6 7										
M10	22 54	17 14	4 16	23 54	0 28	21 44	2 7	0 27	1 47	2 40	1 25	4 22	2 5	4 13	0 46	12 5	1 51	20 49	13 25	20 2	19 50	5 35	8 41	6 6										
T 11	22 59	13 49	4 52	23 37	0 10	21 28	2 1	0 39	1 48	2 41	1 25	4 21	2 5	4 12	0 46	12 4	1 51	20 49	13 26	20 1	19 50	5 37	8 40	6 6										
W12	23 4	9 37	5 12	23 19	0n 8	21 11	1 55	0 52	1 48	2 41	1 24	4 20	2 5	4 12	0 46	12 4	1 50	20 50	13 26	20 1	19 49	5 40	8 40	6 6										
T 13	23 9	4 52	5 13	23 0	0 28	20 55	1 48	1 4	1 49	2 42	1 24	4 20	2 5	4 12	0 46	12 4	1 50	20 50	13 27	20 0	19 48	5 42	8 39	6 5										
F 14	23 13	0n10	4 57	22 41	0 48	20 38	1 41	1 16	1 49	2 43	1 24	4 19	2 6	4 12	0 46	12 3	1 50	20 50	13 27	20 0	19 48	5 44	8 39	6 5										
S 15	23 17	5 15	4 22	22 21	1 8	20 21	1 34	1 28	1 50	2 44	1 23	4 18	2 6	4 11	0 46	12 3	1 50	20 51	13 28	20 0	19 47	5 46	8 38	6 5										
S 16	23 20	10 3	3 30	22 1	1 28	20 4	1 27	1 40	1 50	2 45	1 23	4 18	2 6	4 11	0 46	12 3	1 50	20 51	13 28	20 0	19 46	5 48	8 38	6 4										
M17	23 22	14 20	2 26	21 41	1 46	19 47	1 19	1 52	1 50	2 46	1 23	4 17	2 7	4 11	0 46	12 2	1 50	20 52	13 28	20 1	19 45	5 51	8 37	6 4										
T 18	23 24	17 46	1 13	21 21	2 4	19 29	1 11	2 4	1 51	2 48	1 22	4 17	2 7	4 11	0 46	12 2	1 50	20 52	13 29	20 1	19 45	5 53	8 37	6 3										
W19	23 26	20 6	0s 4	21 2	2 20	19 12	1 3	2 16	1 51	2 49	1 22	4 16	2 7	4 11	0 46	12 2	1 50	20 53	13 29	20 1	19 44	5 55	8 36	6 3										
T 20	23 27	21 11	1 19	20 45	2 34	18 54	0 54	2 28	1 52	2 50	1 22	4 16	2 7	4 10	0 46	12 2	1 50	20 53	13 30	20 1	19 43	5 57	8 36	6 3										
F 21	23 28	20 58	2 30	20 30	2 45	18 37	0 45	2 40	1 52	2 52	1 22	4 15	2 8	4 10	0 46	12 1	1 50	20 54	13 30	20 1	19 43	5 59	8 35	6 2										
S 22	23 28	19 31	3 30	20 16	2 54	18 19	0 36	2 51	1 52	2 54	1 21	4 15	2 8	4 10	0 47	12 1	1 50	20 55	13 31	20 0	19 42	6 1	8 34	6 2										
S 23	23 28	17 2	4 17	20 6	3 0	18 2	0 27	3 3	1 53	2 55	1 21	4 15	2 8	4 10	0 47	12 1	1 50	20 55	13 31	19 59	19 41	6 4	8 34	6 2										
M24	23 28	13 46	4 50	19 58	3 5	17 45	0 17	3 15	1 53	2 57	1 21	4 15	2 8	4 10	0 47	12 1	1 50	20 56	13 32	19 57	19 40	6 6	8 33	6 1										
T25	23 27	9 57	5 8	19 52	3 7	17 27	0 6	3 26	1 54	2 59	1 20	4 14	2 9	4 10	0 47	12 1	1 50	20 56	13 32	19 56	19 40	6 8	8 33	6 1										
W26	23 25	5 48	5 11	19 50	3 7	17 10	0n 4	3 37	1 54	3 1	1 20	4 14	2 9	4 10	0 47	12 0	1 50	20 57	13 33	19 55	19 39	6 10	8 32	6 1										
T 27	23 23	1 30	5 0	19 50	3 5	16 53	0 15	3 49	1 54	3 3	1 20	4 14	2 9	4 10	0 47	12 0	1 50	20 57	13 33	19 54	19 38	6 12	8 31	6 0										
F 28	23 20	2s48	4 36	19 52	3 2	16 36	0 27	4 0	1 55	3 5	1 19	4 14	2 10	4 10	0 47	12 0	1 50	20 58	13 34	19 54	19 37	6 14	8 30	6 0										
S 29	23 17	6 58	4 0	19 56	2 57	16 20	0 38	4 11	1 55	3 7	1 19	4 14	2 10	4 10	0 47	12 0	1 50	20 59	13 34	19 53	19 37	6 16	8 30	6 0										
S 30	23 14	10 53	3 15	20 3	2 52	16 3	0 50	4 22	1 56	3 9	1 19	4 14	2 10	4 10	0 47	12 0	1 50	20 59	13 34	19 54	19 36	6 19	8 29	6 0										
M31	23s10	14s23	2s20	20s11	2n46	15s47	1n 3	4s33	1n56	3n11	1s19	4n14	2n10	4n11	0n47	12n 0	1s49	21n 0	13n35	19s54	19s35	6s21	8s28	5n59										