



Astrodienst Ephemeris Tables for the year 1715

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 1715
geocentric

JANUARY 1715

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	6 39 59	10♌3'41	14♍7	18♎19	13♏46	16♐35	11♑10	24♒23	21♓17	6♈31	8♉19	28♊44	27♋16	6♌54	22♍14	T 1
W 2	6 43 56	11° 4'52	26°27	18°50	13°57	17° 4	11°15	24°23	21♑17	6♈31	8♉18	28♊45	27°13	7° 0	22°17	W 2
T 3	6 47 53	12° 6'03	9♊4	19°28	14° 5	17°33	11°20	24°23	21°17	6°30	8°18	28°44	27° 9	7° 7	22°21	T 3
F 4	6 51 49	13° 7'14	22° 2	20°10	14°12	18° 2	11°26	24°R23	21°16	6°30	8°17	28°42	27° 6	7°14	22°24	F 4
S 5	6 55 46	14° 8'25	5♋20	20°58	14°16	18°31	11°32	24°23	21°16	6°29	8°16	28°37	27° 3	7°20	22°28	S 5
S 6	6 59 42	15° 9'36	18°59	21°50	14°R18	18°59	11°38	24°23	21°15	6°29	8°16	28°30	27° 0	7°27	22°32	S 6
M 7	7 3 39	16°10'47	2♏55	22°45	14°17	19°28	11°44	24°23	21°15	6°29	8°15	28°22	26°57	7°34	22°35	M 7
T 8	7 7 35	17°11'57	17° 4	23°45	14°14	19°56	11°51	24°22	21°14	6°28	8°14	28°14	26°53	7°40	22°39	T 8
W 9	7 11 32	18°13'06	1♋21	24°47	14° 8	20°24	11°57	24°22	21°13	6°28	8°13	28° 6	26°50	7°47	22°43	W 9
T 10	7 15 29	19°14'15	15°40	25°52	14° 0	20°51	12° 4	24°21	21°13	6°28	8°12	28° 0	26°47	7°54	22°46	T 10
F 11	7 19 25	20°15'23	29°57	26°59	13°49	21°19	12°11	24°21	21°12	6°27	8°11	27°55	26°44	8° 1	22°50	F 11
S 12	7 23 22	21°16'31	14°♑10	28° 9	13°36	21°46	12°18	24°20	21°11	6°27	8°10	27°54	26°41	8° 7	22°54	S 12
S 13	7 27 18	22°17'37	28°15	29°20	13°20	22°13	12°25	24°19	21°10	6°27	8° 9	27°D53	26°38	8°14	22°58	S 13
M14	7 31 15	23°18'43	12♌12	0♋34	13° 1	22°40	12°33	24°18	21° 9	6°27	8° 8	27°54	26°34	8°21	23° 1	M14
T 15	7 35 11	24°19'48	26° 1	1°49	12°41	23° 7	12°40	24°17	21° 8	6°27	8° 7	27°R55	26°31	8°27	23° 5	T 15
W16	7 39 8	25°20'52	9♊42	3° 6	12°18	23°34	12°48	24°15	21° 7	6°27	8° 6	27°54	26°28	8°34	23° 9	W16
T 17	7 43 4	26°21'56	23°14	4°24	11°53	24° 0	12°56	24°14	21° 6	6°D27	8° 5	27°52	26°25	8°41	23°13	T 17
F 18	7 47 1	27°22'58	6♌35	5°43	11°25	24°26	13° 4	24°13	21° 5	6°27	8° 4	27°46	26°22	8°47	23°17	F 18
S 19	7 50 58	28°24'00	19°46	7° 4	10°56	24°52	13°12	24°11	21° 4	6°27	8° 3	27°38	26°19	8°54	23°21	S 19
S 20	7 54 54	29°25'01	2♊44	8°26	10°25	25°17	13°20	24° 9	21° 2	6°27	8° 2	27°27	26°15	9° 1	23°25	S 20
M21	7 58 51	0♏26'01	15°28	9°48	9°53	25°43	13°29	24° 8	21° 1	6°27	8° 1	27°15	26°12	9° 7	23°29	M21
T 22	8 2 47	1°27'00	27°58	11°12	9°19	26° 8	13°37	24° 6	21° 0	6°27	8° 0	27° 3	26° 9	9°14	23°33	T 22
W23	8 6 44	2°27'58	10♑15	12°37	8°44	26°33	13°46	24° 4	20°58	6°27	7°58	26°52	26° 6	9°21	23°37	W23
T 24	8 10 40	3°28'56	22°20	14° 2	8° 8	26°57	13°55	24° 2	20°57	6°28	7°57	26°42	26° 3	9°27	23°41	T 24
F 25	8 14 37	4°29'53	4♌15	15°29	7°31	27°22	14° 4	23°59	20°55	6°28	7°56	26°35	25°59	9°34	23°45	F 25
S 26	8 18 33	5°30'49	16° 5	16°56	6°54	27°46	14°13	23°57	20°54	6°28	7°55	26°31	25°56	9°41	23°49	S 26
S 27	8 22 30	6°31'45	27°55	18°24	6°17	28° 9	14°22	23°55	20°52	6°29	7°53	26°29	25°53	9°48	23°53	S 27
M28	8 26 27	7°32'40	9♊48	19°53	5°40	28°33	14°32	23°52	20°50	6°29	7°52	26°D29	25°50	9°54	23°57	M28
T 29	8 30 23	8°33'34	21°51	21°23	5° 3	28°56	14°41	23°50	20°49	6°29	7°51	26°R29	25°47	10° 1	24° 1	T 29
W30	8 34 20	9°34'27	4♊10	22°54	4°27	29°19	14°51	23°47	20°47	6°30	7°50	26°29	25°44	10° 8	24° 5	W30
T 31	8 38 16	10°35'20	16♊48	24♋25	3♏52	29♐42	15°♑1	23♒44	20♓45	6♈30	7♉48	26♊27	25♋40	10♌14	24°≈10	T 31

Day	☉	☽		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat
T 1	23s 6	17s21	1s19	20s20	2n38	15s31	1n16	4s44	1n57	3n13	1s18	4n14	2n11	4n11	0n47	11n59	1s49	21n 1	13n35	19s54	19s35	6s23	8s27	5n59
W 2	23 1	19 35	0 12	20 30	2 31	15 15	1 29	4 55	1 57	3 16	1 18	4 14	2 11	4 11	0 47	11 59	1 49	21 1	13 36	19 55	19 34	6 25	8 26	5 59
T 3	22 55	20 56	0n56	20 41	2 23	15 0	1 42	5 6	1 57	3 18	1 18	4 15	2 11	4 11	0 47	11 59	1 49	21 2	13 36	19 54	19 33	6 27	8 26	5 58
F 4	22 50	21 12	2 3	20 53	2 14	14 45	1 56	5 16	1 58	3 21	1 17	4 15	2 12	4 11	0 47	11 59	1 49	21 3	13 37	19 54	19 32	6 29	8 25	5 58
S 5	22 43	20 18	3 5	21 5	2 5	14 30	2 9	5 27	1 58	3 23	1 17	4 15	2 12	4 11	0 47	11 59	1 49	21 3	13 37	19 53	19 32	6 31	8 24	5 58
S 6	22 37	18 12	3 58	21 17	1 56	14 16	2 24	5 37	1 59	3 26	1 17	4 15	2 12	4 12	0 47	11 59	1 49	21 4	13 37	19 51	19 31	6 34	8 23	5 58
M 7	22 30	15 2	4 38	21 30	1 47	14 3	2 38	5 47	1 59	3 28	1 17	4 16	2 12	4 12	0 47	11 59	1 49	21 5	13 38	19 50	19 30	6 36	8 22	5 57
T 8	22 22	10 57	5 1	21 42	1 38	13 50	2 53	5 58	1 59	3 31	1 16	4 16	2 13	4 12	0 47	11 59	1 49	21 5	13 38	19 48	19 29	6 38	8 21	5 57
W 9	22 14	6 14	5 6	21 54	1 29	13 37	3 8	6 8	2 0	3 34	1 16	4 17	2 13	4 13	0 47	11 59	1 49	21 6	13 39	19 46	19 29	6 40	8 20	5 57
T 10	22 6	1 10	4 53	22 5	1 19	13 25	3 23	6 18	2 0	3 37	1 16	4 17	2 13	4 13	0 47	11 59	1 49	21 7	13 39	19 45	19 28	6 42	8 19	5 57
F 11	21 57	3n58	4 21	22 16	1 10	13 14	3 38	6 28	2 1	3 40	1 15	4 18	2 14	4 13	0 47	11 59	1 49	21 7	13 39	19 44	19 27	6 44	8 18	5 56
S 12	21 47	8 51	3 33	22 27	1 1	13 3	3 53	6 38	2 1	3 43	1 15	4 18	2 14	4 14	0 47	11 59	1 49	21 8	13 40	19 43	19 27	6 46	8 17	5 56
S 13	21 38	13 14	2 32	22 36	0 52	12 53	4 8	6 47	2 1	3 46	1 15	4 19	2 14	4 14	0 47	11 59	1 49	21 9	13 40	19 43	19 26	6 48	8 16	5 56
M14	21 28	16 51	1 23	22 45	0 43	12 43	4 23	6 57	2 2	3 49	1 15	4 19	2 14	4 14	0 47	11 59	1 49	21 10	13 40	19 43	19 25	6 51	8 15	5 56
T 15	21 17	19 27	0 10	22 53	0 34	12 34	4 38	7 6	2 2	3 52	1 14	4 20	2 15	4 15	0 48	11 59	1 49	21 10	13 41	19 44	19 24	6 53	8 14	5 55
W16	21 6	20 54	1s 3	23 1	0 26	12 26	4 53	7 16	2 3	3 56	1 14	4 21	2 15	4 15	0 48	11 59	1 49	21 11	13 41	19 43	19 24	6 55	8 13	5 55
T 17	20 55	21 7	2 11	23 7	0 17	12 19	5 8	7 25	2 3	3 59	1 14	4 22	2 15	4 16	0 48	11 59	1 48	21 12	13 42	19 43	19 23	6 57	8 12	5 55
F 18	20 43	20 8	3 11	23 12	0 9	12 12	5 23	7 34	2 3	4 2	1 14	4 23	2 15	4 16	0 48	11 59	1 48	21 13	13 42	19 41	19 22	6 59	8 11	5 55
S 19	20 31	18 3	4 0	23 17	0 0	12 6	5 37	7 43	2 4	4 6	1 13	4 23	2 16	4 17	0 48	11 59	1 48	21 13	13 42	19 40	19 21	7 1	8 10	5 55
S 20	20 18	15 6	4 36	23 20	0s 8	12 1	5 51	7 52	2 4	4 9	1 13	4 24	2 16	4 17	0 48	11 59	1 48	21 14	13 43	19 37	19 21	7 3	8 9	5 54
M21	20 5	11 30	4 57	23 22	0 15	11 57	6 4	8 1	2 4	4 13	1 13	4 25	2 16	4 18	0 48	11 59	1 48	21 15	13 43	19 35	19 20	7 5	8 8	5 54
T 22	19 52	7 27	5 3	23 23	0 23	11 53	6 17	8 10	2 5	4 16	1 13	4 26	2 17	4 18	0 48	11 59	1 48	21 16	13 43	19 32	19 19	7 7	8 7	5 54
W23	19 38	3 11	4 55	23 23	0 30	11 50	6 29	8 18	2 5	4 20	1 12	4 27	2 17	4 19	0 48	11 59	1 48	21 16	13 44	19 29	19 18	7 9	8 6	5 54
T 24	19 24	1s 8	4 34	23 21	0 38	11 48	6 41	8 27	2 6	4 23	1 12	4 28	2 17	4 20	0 48	12 0	1 48	21 17	13 44	19 27	19 18	7 11	8 5	5 54
F 25	19 10	5 22	4 1	23 19	0 45	11 47	6 52	8 35	2 6	4 27	1 12	4 29	2 17	4 20	0 48	12 0	1 48	21 18	13 44	19 25	19 17	7 14	8 3	5 54
S 26	18 55	9 22	3 17	23 15	0 51	11 46	7 2	8 44	2 6	4 31	1 12	4 31	2 18	4 21	0 48	12 0	1 48	21 19	13 45	19 24	19 16	7 16	8 2	5 53
S 27	18 40	13 1	2 26	23 10	0 58	11 46	7 11	8 52	2 7	4 35	1 11	4 32	2 18	4 22	0 48	12 0	1 48	21 19	13 45	19 24	19 15	7 18	8 1	5 53
M28	18 25	16 9	1 28	23 3	1 4	11 46	7 20	9 0	2 7	4 39	1 11	4 33	2 18	4 22	0 48	12 0	1 48	21 20	13 45	19 24	19 15	7 20	8 0	5 53
T 29	18 9	18 39	0 25	22 56	1 10	11 47	7 27	9 8	2 7	4 42	1 11	4 34	2 18	4 23	0 48	12 0	1 48	21 21	13 45	19 24	19 14	7 22	7 59	5 53
W30	17 53	20 21	0n41	22 47	1 16	11 49	7 34	9 15	2 8	4 46	1 11	4 35	2 19	4 24	0 48	12 1	1 48	21 22	13 46	19 24	19 13	7 24	7 57	5 53
T 31	17s36	21s 4	1n46	22s36	1s21	11s52	7n40	9s23	2n 8	4n50	1s10	4n37	2n19	4n24	0n48	12n 1	1s48	21n22	13n46	19s23	19s12	7s26	7s56	5n53

ASTRODIENST EPHEMERIS for the year 1715

geocentric

FEBRUARY 1715

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 42 13	11 ³⁶ 11	29 ⁵¹ 51	25 ⁵⁷ 57	3°R18	0 ⁴ 4	15 ¹¹ 11	23°R42	20°R44	6 ³¹ 31	7°R47	26°R23	25 ³⁷ 37	10 ²¹ 21	24 ¹⁴ 14	F 1
S 2	8 46 9	12°37'02	13 ²⁰ 20	27°30	2 ⁴⁵ 45	0°26	15°21	23 ³⁹ 39	20 ⁴² 42	6°31	7 ⁴⁶ 46	26 ¹⁶ 16	25°34	10°28	24°18	S 2
S 3	8 50 6	13°37'51	27°14	29° 4	2°14	0°48	15°31	23°36	20°40	6°32	7°44	26° 7	25°31	10°34	24°22	S 3
M 4	8 54 2	14°38'40	11 ³³ 33	0 ³⁸ 38	1°44	1° 9	15°41	23°33	20°38	6°32	7°43	25°55	25°28	10°41	24°26	M 4
T 5	8 57 59	15°39'27	26° 8	2°13	1°16	1°30	15°51	23°29	20°36	6°33	7°41	25°43	25°24	10°48	24°31	T 5
W 6	9 1 56	16°40'12	10 ⁵³ 53	3°49	0°50	1°50	16° 2	23°26	20°34	6°34	7°40	25°32	25°21	10°54	24°35	W 6
T 7	9 5 52	17°40'57	25°40	5°26	0°27	2°11	16°13	23°23	20°32	6°35	7°38	25°22	25°18	11° 1	24°39	T 7
F 8	9 9 49	18°41'39	10 ⁵⁰ 50	7° 3	0° 5	2°31	16°23	23°19	20°30	6°35	7°37	25°15	25°15	11° 8	24°43	F 8
S 9	9 13 45	19°42'20	24°49	8°42	29 ³⁶ 36	2°50	16°34	23°16	20°28	6°36	7°36	25°11	25°12	11°14	24°47	S 9
S 10	9 17 42	20°42'59	9 ⁸ 1	10°21	29°29	3° 9	16°45	23°12	20°26	6°37	7°34	25° 9	25° 9	11°21	24°52	S 10
M11	9 21 38	21°43'37	22°57	12° 1	29°15	3°28	16°56	23° 9	20°23	6°38	7°33	25° 9	25° 5	11°28	24°56	M11
T 12	9 25 35	22°44'13	6 ³⁷ 37	13°42	29° 3	3°46	17° 7	23° 5	20°21	6°39	7°31	25° 9	25° 2	11°34	25° 0	T 12
W13	9 29 31	23°44'47	20° 2	15°24	28°53	4° 4	17°18	23° 1	20°19	6°39	7°30	25° 7	24°59	11°41	25° 4	W13
T 14	9 33 28	24°45'19	3 ¹⁴ 14	17° 6	28°46	4°22	17°30	22°57	20°17	6°40	7°28	25° 4	24°56	11°48	25° 9	T 14
F 15	9 37 25	25°45'50	16°13	18°50	28°42	4°39	17°41	22°53	20°14	6°41	7°27	24°57	24°53	11°55	25°13	F 15
S 16	9 41 21	26°46'18	29° 2	20°35	28°D40	4°56	17°53	22°50	20°12	6°42	7°25	24°47	24°50	12° 1	25°17	S 16
S 17	9 45 18	27°46'45	11 ⁴⁰ 40	22°20	28°40	5°12	18° 4	22°45	20°10	6°43	7°23	24°34	24°46	12° 8	25°21	S 17
M18	9 49 14	28°47'10	24° 8	24° 6	28°43	5°28	18°16	22°41	20° 7	6°44	7°22	24°20	24°43	12°15	25°26	M18
T 19	9 53 11	29°47'34	6 ³⁶ 36	25°54	28°48	5°43	18°28	22°37	20° 5	6°46	7°20	24° 6	24°40	12°21	25°30	T 19
W20	9 57 7	0 ⁴⁷ 56	18°34	27°42	28°55	5°58	18°40	22°33	20° 3	6°47	7°19	23°52	24°37	12°28	25°34	W20
T 21	10 1 4	1°48'16	0 ³³ 33	29°31	29° 5	6°12	18°52	22°29	20° 0	6°48	7°17	23°41	24°34	12°35	25°38	T 21
F 22	10 5 0	2°48'35	12°26	1 ²¹ 21	29°17	6°26	19° 4	22°25	19°58	6°49	7°16	23°32	24°30	12°41	25°42	F 22
S 23	10 8 57	3°48'52	24°15	3°12	29°31	6°40	19°16	22°20	19°55	6°50	7°14	23°26	24°27	12°48	25°47	S 23
S 24	10 12 53	4°49'08	6 ³ 3	5° 4	29°47	6°52	19°28	22°16	19°53	6°51	7°13	23°22	24°24	12°55	25°51	S 24
M25	10 16 50	5°49'22	17°55	6°57	0 ⁴⁵ 5	7° 5	19°40	22°11	19°50	6°53	7°11	23°21	24°21	13° 1	25°55	M25
T 26	10 20 47	6°49'34	29°56	8°51	0°25	7°17	19°53	22° 7	19°48	6°54	7° 9	23°D21	24°18	13° 8	25°59	T 26
W27	10 24 43	7°49'46	12 ¹¹ 11	10°45	0°47	7°28	20° 5	22° 2	19°45	6°55	7° 8	23°R21	24°15	13°15	26° 3	W27
T 28	10 28 40	8 ⁴⁹ 55	24 ⁴⁶ 46	12 ⁴¹ 41	1 ¹¹ 11	7 ³⁹ 39	20 ¹⁸ 18	21 ⁵⁸ 58	19 ⁴³ 43	6 ⁵⁷ 57	7 ⁶ 6	23 ²⁰ 20	24 ¹¹ 11	13 ²¹ 21	26 ⁸ 8	T 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
F 1	17s20	20s41	2n47	22s24	1s27	11s54	7n45	9s30	2n 8	4n54	1s10	4n38	2n19	4n25	0n48	12n 1	1s48	21n23	13n46	19s22	19s12	7s28	7s55	5n53	
S 2	17 3	19 8	3 41	22 11	1 32	11 58	7 49	9 38	2 9	4 58	1 10	4 39	2 19	4 26	0 48	12 1	1 47	21 24	13 47	19 21	19 11	7 30	7 54	5 52	
S 3	16 45	16 26	4 24	21 57	1 36	12 1	7 52	9 45	2 9	5 3	1 10	4 41	2 19	4 27	0 48	12 2	1 47	21 25	13 47	19 19	19 10	7 32	7 52	5 52	
M 4	16 28	12 41	4 51	21 41	1 41	12 6	7 54	9 52	2 9	5 7	1 10	4 42	2 20	4 27	0 48	12 2	1 47	21 25	13 47	19 16	19 9	7 34	7 51	5 52	
T 5	16 10	8 6	5 1	21 24	1 45	12 10	7 55	9 59	2 10	5 11	1 9	4 44	2 20	4 28	0 48	12 2	1 47	21 26	13 47	19 13	19 9	7 36	7 50	5 52	
W 6	15 52	3 1	4 50	21 5	1 48	12 15	7 56	10 6	2 10	5 15	1 9	4 45	2 20	4 29	0 48	12 2	1 47	21 27	13 47	19 10	19 8	7 38	7 49	5 52	
T 7	15 33	2n15	4 20	20 45	1 52	12 20	7 56	10 12	2 10	5 19	1 9	4 47	2 20	4 30	0 48	12 3	1 47	21 28	13 48	19 8	19 7	7 40	7 47	5 52	
F 8	15 15	7 22	3 33	20 23	1 55	12 25	7 55	10 19	2 11	5 24	1 9	4 48	2 21	4 31	0 48	12 3	1 47	21 28	13 48	19 6	19 6	7 42	7 46	5 52	
S 9	14 56	12 0	2 33	20 0	1 58	12 31	7 53	10 25	2 11	5 28	1 8	4 50	2 21	4 31	0 48	12 3	1 47	21 29	13 48	19 5	19 6	7 45	7 45	5 52	
S 10	14 37	15 51	1 24	19 36	2 0	12 37	7 51	10 31	2 11	5 32	1 8	4 51	2 21	4 32	0 48	12 4	1 47	21 30	13 48	19 5	19 5	7 47	7 43	5 52	
M11	14 17	18 44	0 12	19 10	2 2	12 42	7 48	10 38	2 12	5 37	1 8	4 53	2 21	4 33	0 48	12 4	1 47	21 31	13 49	19 5	19 4	7 49	7 42	5 52	
T 12	13 57	20 27	1s 0	18 43	2 3	12 48	7 44	10 43	2 12	5 41	1 8	4 55	2 21	4 34	0 48	12 4	1 47	21 31	13 49	19 5	19 3	7 51	7 41	5 52	
W13	13 38	20 59	2 7	18 14	2 5	12 54	7 40	10 49	2 12	5 46	1 8	4 56	2 22	4 35	0 48	12 5	1 47	21 32	13 49	19 4	19 2	7 53	7 39	5 52	
T 14	13 17	20 20	3 7	17 43	2 6	13 0	7 35	10 55	2 12	5 50	1 8	4 58	2 22	4 36	0 48	12 5	1 47	21 33	13 49	19 4	19 2	7 55	7 38	5 51	
F 15	12 57	18 36	3 55	17 12	2 6	13 6	7 30	11 0	2 13	5 55	1 7	5 0	2 22	4 37	0 48	12 5	1 47	21 34	13 49	19 2	19 1	7 57	7 37	5 51	
S 16	12 37	15 58	4 31	16 39	2 6	13 12	7 24	11 6	2 13	5 59	1 7	5 2	2 22	4 38	0 48	12 6	1 47	21 34	13 49	19 0	19 0	7 59	7 35	5 51	
S 17	12 16	12 38	4 52	16 4	2 6	13 18	7 18	11 11	2 13	6 4	1 7	5 3	2 22	4 39	0 48	12 6	1 47	21 35	13 50	18 56	18 59	8 1	7 34	5 51	
M18	11 55	8 47	5 0	15 28	2 5	13 24	7 12	11 16	2 13	6 9	1 7	5 5	2 22	4 40	0 48	12 7	1 46	21 36	13 50	18 53	18 59	8 3	7 33	5 51	
T 19	11 34	4 38	4 53	14 50	2 3	13 29	7 5	11 21	2 14	6 13	1 7	5 7	2 23	4 41	0 49	12 7	1 46	21 37	13 50	18 50	18 58	8 5	7 31	5 51	
W20	11 12	0 21	4 33	14 11	2 1	13 35	6 58	11 25	2 14	6 18	1 6	5 9	2 23	4 42	0 49	12 7	1 46	21 37	13 50	18 46	18 57	8 7	7 30	5 51	
T 21	10 51	3s54	4 1	13 31	1 59	13 40	6 51	11 30	2 14	6 23	1 6	5 11	2 23	4 43	0 49	12 8	1 46	21 38	13 50	18 43	18 56	8 9	7 29	5 51	
F 22	10 29	7 58	3 19	12 49	1 56	13 45	6 44	11 34	2 14	6 27	1 6	5 12	2 23	4 43	0 49	12 8	1 46	21 39	13 50	18 41	18 56	8 11	7 27	5 51	
S 23	10 7	11 42	2 28	12 6	1 53	13 50	6 36	11 39	2 14	6 32	1 6	5 14	2 23	4 44	0 49	12 9	1 46	21 39	13 50	18 39	18 55	8 13	7 26	5 51	
S 24	9 45	14 59	1 30	11 21	1 49	13 54	6 28	11 43	2 14	6 37	1 6	5 16	2 23	4 45	0 49	12 9	1 46	21 40	13 50	18 39	18 54	8 15	7 24	5 51	
M25	9 23	17 39	0 29	10 35	1 45	13 58	6 20	11 47	2 15	6 42	1 6	5 18	2 23	4 46	0 49	12 10	1 46	21 41	13 50	18 38	18 53	8 17	7 23	5 51	
T 26	9 1	19 36	0n35	9 48	1 40	14 2	6 12	11 50	2 15	6 47	1 5	5 20	2 24	4 47	0 49	12 10	1 46	21 41	13 51	18 38	18 52	8 19	7 22	5 51	
W27	8 39	20 40	1 38	9 0	1 34	14 6	6 4	11 54	2 15	6 51	1 5	5 22	2 24	4 48	0 49	12 11	1 46	21 42	13 51	18 38	18 52	8 21	7 20	5 51	
T 28	8s16	20s44	2n39	8s10	1s28	14s 9	5n55	11s57	2n15	6n56	1s 5	5n24	2n24	4n49	0n49	12n11	1s46	21n43	13n51	18s38	18s51	8s23	7s19	5n51	

Julian Day Number = 2347481.5, Delta T = 10.78 sec
 Ecliptic obliquity = 23°28'29", Nutation = 0°00'16", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°45'46", Lahiri

ASTRODIENST EPHEMERIS for the year 1715

geocentric

MARCH 1715

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 32 36	9 ^h 50'03	7 ^h 34'46	14 ^h 36'36	1 ^h 36'36	7 ^h 49'49	20 ^h 30'30	21 ^h 50'53	19 ^h 40'40	6 ^h 58'58	7 ^h 00'50	23 ^h 00'17	24 ^h 00'08	13 ^h 28'28	26 ^h 26'12	F 1
S 2	10 36 33	10 ^h 50'10	21 ^h 01'13	16 ^h 32'32	2 ^h 00'30	7 ^h 58'58	20 ^h 40'40	21 ^h 00'49	19 ^h 00'38	7 ^h 00'00	7 ^h 00'30	23 ^h 00'11	24 ^h 00'05	13 ^h 35'35	26 ^h 16'16	S 2
S 3	10 40 29	11 ^h 50'15	5 ^h 33'11	18 ^h 29'29	2 ^h 32'32	8 ^h 00'00	20 ^h 56'56	21 ^h 00'44	19 ^h 35'35	7 ^h 00'01	7 ^h 00'02	23 ^h 00'03	24 ^h 00'02	13 ^h 41'41	26 ^h 20'20	S 3
M 4	10 44 26	12 ^h 50'18	19 ^h 36'36	20 ^h 25'25	3 ^h 00'00	8 ^h 16'16	21 ^h 00'09	21 ^h 00'39	19 ^h 32'32	7 ^h 00'02	7 ^h 00'00	22 ^h 50'53	23 ^h 50'59	13 ^h 48'48	26 ^h 24'24	M 4
T 5	10 48 22	13 ^h 50'19	4 ^h 36'24	22 ^h 22'22	3 ^h 34'34	8 ^h 23'23	21 ^h 00'21	21 ^h 00'35	19 ^h 30'30	7 ^h 00'04	6 ^h 59'59	22 ^h 40'43	23 ^h 56'56	13 ^h 55'55	26 ^h 28'28	T 5
W 6	10 52 19	14 ^h 50'19	19 ^h 28'28	24 ^h 18'18	4 ^h 00'00	8 ^h 31'31	21 ^h 00'34	21 ^h 00'30	19 ^h 27'27	7 ^h 00'05	6 ^h 57'57	22 ^h 32'32	23 ^h 52'52	14 ^h 00'01	26 ^h 32'32	W 6
T 7	10 56 16	15 ^h 50'16	4 ^h 36'36	26 ^h 13'13	4 ^h 42'42	8 ^h 37'37	21 ^h 00'47	21 ^h 00'25	19 ^h 25'25	7 ^h 00'07	6 ^h 55'55	22 ^h 24'24	23 ^h 49'49	14 ^h 00'08	26 ^h 36'36	T 7
F 8	11 00 12	16 ^h 50'12	19 ^h 30'30	28 ^h 00'00	5 ^h 18'18	8 ^h 43'43	22 ^h 00'00	21 ^h 00'21	19 ^h 22'22	7 ^h 00'09	6 ^h 54'54	22 ^h 17'17	23 ^h 46'46	14 ^h 15'15	26 ^h 40'40	F 8
S 9	11 04 09	17 ^h 50'05	4 ^h 36'29	0 ^h 00'00	5 ^h 55'55	8 ^h 48'48	22 ^h 00'13	21 ^h 00'16	19 ^h 19'19	7 ^h 00'10	6 ^h 52'52	22 ^h 14'14	23 ^h 43'43	14 ^h 21'21	26 ^h 44'44	S 9
S 10	11 08 05	18 ^h 49'56	18 ^h 59'59	1 ^h 53'53	6 ^h 33'33	8 ^h 52'52	22 ^h 27'27	21 ^h 00'11	19 ^h 17'17	7 ^h 00'12	6 ^h 51'51	22 ^h 00'12	23 ^h 40'40	14 ^h 28'28	26 ^h 48'48	S 10
M 11	11 12 02	19 ^h 49'45	3 ^h 33'06	3 ^h 42'42	7 ^h 13'13	8 ^h 56'56	22 ^h 40'40	21 ^h 00'06	19 ^h 14'14	7 ^h 00'13	6 ^h 49'49	22 ^h 00'13	23 ^h 36'36	14 ^h 35'35	26 ^h 52'52	M 11
T 12	11 15 58	20 ^h 49'32	16 ^h 50'50	5 ^h 29'29	7 ^h 53'53	8 ^h 59'59	22 ^h 53'53	21 ^h 00'02	19 ^h 12'12	7 ^h 00'15	6 ^h 48'48	22 ^h 00'13	23 ^h 33'33	14 ^h 41'41	26 ^h 56'56	T 12
W 13	11 19 55	21 ^h 49'16	0 ^h 33'13	7 ^h 13'13	8 ^h 35'35	9 ^h 00'00	23 ^h 00'00	20 ^h 57'57	19 ^h 00'09	7 ^h 00'17	6 ^h 46'46	22 ^h 00'13	23 ^h 30'30	14 ^h 48'48	27 ^h 00'00	W 13
T 14	11 23 51	22 ^h 48'59	13 ^h 01'17	8 ^h 53'53	9 ^h 18'18	9 ^h 00'00	23 ^h 20'20	20 ^h 52'52	19 ^h 00'06	7 ^h 00'18	6 ^h 45'45	22 ^h 00'11	23 ^h 27'27	14 ^h 55'55	27 ^h 00'04	T 14
F 15	11 27 48	23 ^h 48'38	26 ^h 00'04	10 ^h 00'00	2 ^h 00'00	9 ^h 00'00	23 ^h 33'33	20 ^h 47'47	19 ^h 00'04	7 ^h 00'20	6 ^h 43'43	22 ^h 00'06	23 ^h 24'24	15 ^h 00'02	27 ^h 00'08	F 15
S 16	11 31 45	24 ^h 48'16	8 ^h 33'38	12 ^h 00'00	10 ^h 46'46	9 ^h 00'00	23 ^h 47'47	20 ^h 43'43	19 ^h 00'01	7 ^h 00'22	6 ^h 42'42	22 ^h 00'00	23 ^h 21'21	15 ^h 00'08	27 ^h 12'12	S 16
S 17	11 35 41	25 ^h 47'51	21 ^h 00'01	13 ^h 29'29	11 ^h 32'32	9 ^h 00'00	24 ^h 00'00	20 ^h 38'38	18 ^h 58'58	7 ^h 00'24	6 ^h 40'40	21 ^h 51'51	23 ^h 17'17	15 ^h 15'15	27 ^h 16'16	S 17
M 18	11 39 38	26 ^h 47'24	3 ^h 33'14	14 ^h 50'50	12 ^h 19'19	9 ^h 00'00	24 ^h 14'14	20 ^h 33'33	18 ^h 56'56	7 ^h 00'26	6 ^h 39'39	21 ^h 40'40	23 ^h 14'14	15 ^h 22'22	27 ^h 20'20	M 18
T 19	11 43 34	27 ^h 46'55	15 ^h 19'19	16 ^h 00'00	13 ^h 00'00	9 ^h 00'00	24 ^h 28'28	20 ^h 28'28	18 ^h 53'53	7 ^h 00'27	6 ^h 37'37	21 ^h 30'30	23 ^h 11'11	15 ^h 28'28	27 ^h 23'23	T 19
W 20	11 47 31	28 ^h 46'24	27 ^h 18'18	17 ^h 16'16	13 ^h 54'54	8 ^h 59'59	24 ^h 41'41	20 ^h 24'24	18 ^h 51'51	7 ^h 00'29	6 ^h 36'36	21 ^h 20'20	23 ^h 00'00	15 ^h 35'35	27 ^h 27'27	W 20
T 21	11 51 27	29 ^h 45'51	9 ^h 21'11	18 ^h 19'19	14 ^h 43'43	8 ^h 55'55	24 ^h 55'55	20 ^h 19'19	18 ^h 48'48	7 ^h 00'31	6 ^h 35'35	21 ^h 11'11	23 ^h 00'05	15 ^h 42'42	27 ^h 31'31	T 21
F 22	11 55 24	0 ^h 45'16	21 ^h 00'01	19 ^h 16'16	15 ^h 33'33	8 ^h 51'51	25 ^h 00'00	20 ^h 14'14	18 ^h 46'46	7 ^h 00'33	6 ^h 33'33	21 ^h 00'04	23 ^h 00'01	15 ^h 48'48	27 ^h 35'35	F 22
S 23	11 59 20	1 ^h 44'39	2 ^h 33'49	20 ^h 00'00	16 ^h 23'23	8 ^h 46'46	25 ^h 23'23	20 ^h 10'10	18 ^h 43'43	7 ^h 00'35	6 ^h 32'32	21 ^h 00'00	22 ^h 58'58	15 ^h 55'55	27 ^h 38'38	S 23
S 24	12 03 17	2 ^h 44'00	14 ^h 39'39	20 ^h 48'48	17 ^h 14'14	8 ^h 40'40	25 ^h 36'36	20 ^h 00'00	18 ^h 41'41	7 ^h 00'37	6 ^h 30'30	20 ^h 58'58	22 ^h 55'55	16 ^h 00'02	27 ^h 42'42	S 24
M 25	12 07 14	3 ^h 43'19	26 ^h 33'33	21 ^h 23'23	18 ^h 00'00	8 ^h 34'34	25 ^h 50'50	20 ^h 00'00	18 ^h 38'38	7 ^h 00'39	6 ^h 29'29	20 ^h 58'58	22 ^h 52'52	16 ^h 00'08	27 ^h 45'45	M 25
T 26	12 11 10	4 ^h 42'36	8 ^h 33'35	21 ^h 51'51	18 ^h 59'59	8 ^h 27'27	26 ^h 00'00	19 ^h 56'56	18 ^h 36'36	7 ^h 00'41	6 ^h 28'28	20 ^h 59'59	22 ^h 49'49	16 ^h 15'15	27 ^h 49'49	T 26
W 27	12 15 07	5 ^h 41'52	20 ^h 50'50	22 ^h 11'11	19 ^h 52'52	8 ^h 19'19	26 ^h 18'18	19 ^h 52'52	18 ^h 33'33	7 ^h 00'43	6 ^h 26'26	21 ^h 00'01	22 ^h 46'46	16 ^h 22'22	27 ^h 53'53	W 27
T 28	12 19 03	6 ^h 41'06	3 ^h 33'23	22 ^h 24'24	20 ^h 46'46	8 ^h 10'10	26 ^h 32'32	19 ^h 47'47	18 ^h 31'31	7 ^h 00'45	6 ^h 25'25	21 ^h 00'02	22 ^h 42'42	16 ^h 28'28	27 ^h 56'56	T 28
F 29	12 23 00	7 ^h 40'18	16 ^h 18'18	22 ^h 29'29	21 ^h 40'40	8 ^h 00'00	26 ^h 46'46	19 ^h 43'43	18 ^h 28'28	7 ^h 00'47	6 ^h 24'24	21 ^h 00'01	22 ^h 39'39	16 ^h 35'35	28 ^h 00'00	F 29
S 30	12 26 56	8 ^h 39'28	29 ^h 40'40	22 ^h 28'28	22 ^h 35'35	7 ^h 50'50	27 ^h 00'00	19 ^h 38'38	18 ^h 26'26	7 ^h 00'49	6 ^h 22'22	20 ^h 59'59	22 ^h 36'36	16 ^h 42'42	28 ^h 00'03	S 30
S 31	12 30 53	9 ^h 38'36	13 ^h 33'30	22 ^h 19'19	23 ^h 33'30	7 ^h 43'43	27 ^h 14'14	19 ^h 34'34	18 ^h 23'23	7 ^h 00'51	6 ^h 21'21	20 ^h 56'56	22 ^h 33'33	16 ^h 48'48	28 ^h 00'06	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
F 1	7s54	19s42	3n33	7s19	1s21	14s12	5n47	12s 0	2n15	7n 1	1s 5	5n26	2n24	4n50	0n49	12n12	1s46	21n43	13n51	18s37	18s50	8s25	7s17	5n51	
S 2	7 31	17 34	4 17	6 27	1 14	14 14	5 38	12 4	2 15	7 6	1 5	5 28	2 24	4 52	0 49	12 12	1 46	21 44	13 51	18 36	18 49	8 27	7 16	5 51	
S 3	7 8	14 21	4 48	5 34	1 6	14 16	5 30	12 6	2 15	7 11	1 5	5 29	2 24	4 53	0 49	12 13	1 46	21 45	13 51	18 34	18 48	8 29	7 15	5 51	
M 4	6 45	10 11	5 2	4 41	0 57	14 18	5 21	12 9	2 15	7 16	1 4	5 31	2 24	4 54	0 49	12 13	1 46	21 45	13 51	18 31	18 48	8 31	7 13	5 52	
T 5	6 22	5 19	4 56	3 46	0 48	14 19	5 13	12 12	2 15	7 21	1 4	5 33	2 24	4 55	0 49	12 14	1 46	21 46	13 51	18 29	18 47	8 33	7 12	5 52	
W 6	5 59	0 2	4 30	2 51	0 38	14 20	5 4	12 14	2 15	7 26	1 4	5 35	2 24	4 56	0 49	12 14	1 46	21 47	13 51	18 26	18 46	8 35	7 10	5 52	
T 7	5 36	5n16	3 45	1 56	0 28	14 20	4 55	12 16	2 15	7 31	1 4	5 37	2 25	4 57	0 49	12 15	1 46	21 47	13 51	18 24	18 45	8 37	7 9	5 52	
F 8	5 12	10 14	2 44	1 1	0 17	14 20	4 47	12 18	2 15	7 36	1 4	5 39	2 25	4 58	0 49	12 15	1 46	21 48	13 51	18 22	18 45	8 39	7 7	5 52	
S 9	4 49	14 30	1 33	0 5	0 6	14 20	4 38	12 20	2 15	7 41	1 4	5 41	2 25	4 59	0 49	12 16	1 46	21 48	13 51	18 21	18 44	8 41	7 6	5 52	
S 10	4 25	17 46	0 17	0n50	0n 5	14 19	4 29	12 21	2 14	7 46	1 4	5 43	2 25	5 0	0 49	12 16	1 45	21 49	13 51	18 21	18 43	8 43	7 5	5 52	
M 11	4 2	19 52	0s58	1 45	0 18	14 17	4 21	12 23	2 14	7 51	1 3	5 45	2 25	5 1	0 49	12 17	1 45	21 49	13 51	18 21	18 42	8 45	7 3	5 52	
T 12	3 38	20 42	2 8	2 38	0 30	14 16	4 12	12 24	2 14	7 56	1 3	5 47	2 25	5 2	0 49	12 18	1 45	21 50	13 51	18 21	18 41	8 47	7 2	5 52	
W 13	3 15	20 20	3 9	3 31	0 42	14 13	4 4	12 25	2 14	8 1	1 3	5 49	2 25	5 3	0 49	12 18	1 45	21 51	13 51	18 21	18 41	8 49	7 0	5 52	
T 14	2 51	18 52	3 58	4 23	0 55	14 10	3 55	12 26	2 14	8 6	1 3	5 51	2 25	5 4	0 49	12 19	1 45	21 51	13 51	18 20	18 40	8 51	6 59	5 52	
F 15	2 28	16 28	4 34	5 12	1 8	14 7	3 47	12 26	2 13	8 11	1 3	5 53	2 25	5 5	0 49	12 19	1 45	21 52	13 51	18 19	18 39	8 53	6 58	5 52	
S 16	2 4	13 21	4 57	6 0	1 21	14 3	3 38	12 27	2 13	8 16	1 3	5 55	2 25	5 6	0 49	12 20	1 45	21 52	13 51	18 18	18 38	8 55	6 56	5 53	
S 17	1 40	9 42	5 5	6 46	1 34	13 59	3 30	12 27	2 13	8 21	1 3	5 56	2 25	5 7	0 49	12 21	1 45	21 53	13 51	18 15	18 37	8 56	6 55	5 53	
M 18	1 17	5 41	4 59	7 29	1 46	13 54	3 22	12 27	2 12	8 26	1 3	5 58	2 25	5 8	0 49	12 21	1 45	21 53	13 50	18 13	18 37	8 58	6 53	5 53	
T 19	0 53	1 30	4 39	8 10	1 58	13 49	3 14	12 27	2 12	8 32	1 2	6 0	2 25	5 9	0 49	12 22	1 45	21 54	13 50	18 10	18 36	9 0	6 52	5 53	
W 20	0 29	2s43	4 8	8 47	2 10	13 43	3 6	12 26	2 11	8 37	1 2	6 2	2 25	5 10	0 49	12 22	1 45	21 54	13 50	18 7	18 35	9 2	6 51	5 53	
T 21	0 6	6 48	3 25	9 22	2 21	13 37	2 57	12 26	2 11	8 42	1 2	6 4	2 25	5 11	0 49	12 23	1 45	21 54	13 50	18 5	18 34	9 4	6 49	5 53	
F 22	0n18	10 36	2 34	9 53	2 32	13 30	2 49	12 25	2 10	8 47	1 2	6 6	2 25	5 12	0 49	12 24	1 45	21 55	13 50	18 3	18 33	9 6	6 48	5 53	
S 23	0 42	13 59	1 36	10 21	2 42	13 23	2 42	12 24	2 9	8 52	1 2	6 8	2 25	5 13	0 49	12 24	1 45	21 55	13 50	18 2	18 33	9 8	6 46	5 53	
S 24	1 5	16 48	0 34	10 45	2 50	13 15	2 34	12 23	2 9	8 57	1 2	6 9	2 25	5 14	0 49	12 25	1 45	21 56	13 50	18 2	18 32	9 10	6 45	5 54	
M 25	1 29	18 55	0n30	11 6	2 58	13 7	2 26	12 21	2 8	9 2	1 2	6 11	2 25	5 15	0 49	12 26	1 45	21 56	13 50	18 2	18 31	9 12	6 44	5 54	
T 26	1 52	20 13	1 34	11 23	3 5	12 58	2 18	12 20	2 7	9 8	1 2	6 13	2 25	5 16	0 49	12 26	1 45	21 57	13 50	18 2	18 30	9 14	6 42	5 54	
W 27	2 16	20 35	2 35	11 35	3 10	12 48	2 11	12 18	2 7	9 13	1 2	6 15	2 25	5 17	0 49	12 27	1 45	21 57	13 49	18 2	18 29	9 16	6 41	5 54	
T 28	2 39	19 56	3 30	11 44	3 15	12 39	2 3	12 16	2 6	9 18	1 1	6 16	2 25	5 18	0 49	12 28	1 45	21 57	13 49	18 2	18 29	9 18	6 40	5 54	
F 29	3 3	18 15	4 15	11 49	3 18	12 28	1 56	12 14	2 5	9 23	1 1	6 18	2 25	5 19	0 49	12 28	1 45	21 58	13 49	18 2	18 28	9 20	6 38	5 54	
S 30	3 26	15 32	4 49	11 50	3 19	12 18	1 49	12 11	2 4	9 28	1 1	6 20	2 25	5 20	0 48	12 29	1 45	21 58	13 49	18 2	18 27	9 22	6 37	5 55	
S 31	3n50	11s53	5n 8	11n47	3n19	12s 6	1n42	12s 9	2n 3	9n33	1s 1	6n22	2n25	5n20	0n48	12n30	1s45	21n58	13n49	18s 1	18s26	9s24	6s36	5n55	

ASTRODIENST EPHEMERIS for the year 1715

geocentric

MAY 1715

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 33 6	9♂55'16	6♂6	14♂28	25♂10	27♂R41	4♂37	17♂R53	17♂R25	8♂58	5♂R53	20♂R 8	20♂M54	20♂A15	29♂A31	W 1
T 2	14 37 3	10°53'24	21° 9	15°11	26°15	27♂A20	4°52	17♂M51	17♂M24	9° 1	5♂M53	20♂M 7	20°51	20°22	29°33	T 2
F 3	14 40 59	11°51'30	6♂16	15°57	27°20	26°59	5° 6	17°49	17°23	9° 3	5°52	20° 7	20°48	20°28	29°35	F 3
S 4	14 44 56	12°49'35	21°20	16°46	28°26	26°38	5°20	17°47	17°21	9° 5	5°52	20°D 6	20°45	20°35	29°37	S 4
S 5	14 48 52	13°47'38	6♂10	17°39	29°32	26°18	5°35	17°46	17°20	9° 7	5°51	20° 7	20°42	20°42	29°39	S 5
M 6	14 52 49	14°45'39	20°41	18°35	0♂Y38	25°58	5°49	17°44	17°19	9°10	5°51	20° 7	20°38	20°48	29°41	M 6
T 7	14 56 45	15°43'39	4♂A47	19°34	1°44	25°39	6° 3	17°43	17°18	9°12	5°51	20° 8	20°35	20°55	29°42	T 7
W 8	15 0 42	16°41'36	18°26	20°36	2°51	25°21	6°17	17°41	17°17	9°14	5°50	20° 8	20°32	21° 2	29°44	W 8
T 9	15 4 38	17°39'32	1♂A40	21°41	3°57	25° 2	6°32	17°40	17°16	9°16	5°50	20° 8	20°29	21° 8	29°45	T 9
F 10	15 8 35	18°37'26	14°29	22°48	5° 4	24°45	6°46	17°39	17°16	9°19	5°50	20°R 8	20°26	21°15	29°47	F 10
S 11	15 12 32	19°35'18	26°59	23°59	6°10	24°28	7° 0	17°38	17°15	9°21	5°50	20°D 8	20°23	21°22	29°48	S 11
S 12	15 16 28	20°33'08	9♂M12	25°12	7°17	24°12	7°14	17°37	17°14	9°23	5°49	20° 8	20°19	21°28	29°50	S 12
M13	15 20 25	21°30'57	21°12	26°27	8°24	23°56	7°28	17°36	17°13	9°25	5°49	20° 8	20°16	21°35	29°51	M13
T 14	15 24 21	22°28'44	3♂A 5	27°46	9°31	23°42	7°42	17°35	17°13	9°28	5°49	20° 8	20°13	21°42	29°52	T 14
W15	15 28 18	23°26'29	14°55	29° 6	10°38	23°28	7°56	17°35	17°12	9°30	5°49	20° 9	20°10	21°48	29°54	W15
T 16	15 32 14	24°24'13	26°43	0♂B29	11°46	23°14	8°10	17°34	17°12	9°32	5°49	20° 9	20° 7	21°55	29°55	T 16
F 17	15 36 11	25°21'55	8♂M34	1°55	12°53	23° 2	8°25	17°34	17°11	9°34	5°49	20°10	20° 4	22° 2	29°56	F 17
S 18	15 40 7	26°19'36	20°31	3°23	14° 1	22°50	8°39	17°33	17°11	9°36	5°D49	20°R10	20° 0	22° 8	29°57	S 18
S 19	15 44 4	27°17'16	2♂A34	4°53	15° 8	22°39	8°52	17°33	17°10	9°39	5°49	20° 9	19°57	22°15	29°58	S 19
M20	15 48 1	28°14'54	14°47	6°26	16°16	22°28	9° 6	17°33	17°10	9°41	5°49	20° 9	19°54	22°22	29°59	M20
T 21	15 51 57	29°12'31	27°11	8° 1	17°24	22°19	9°20	17°D33	17°10	9°43	5°49	20° 8	19°51	22°28	29°59	T 21
W22	15 55 54	0♂M10'07	9♂B47	9°38	18°32	22°10	9°34	17°33	17°10	9°45	5°49	20° 7	19°48	22°35	0♂A 1	W22
T 23	15 59 50	1° 7'42	22°38	11°17	19°40	22° 2	9°48	17°33	17° 9	9°47	5°49	20° 5	19°44	22°42	0° 1	T 23
F 24	16 3 47	2° 5'17	5♂A43	12°59	20°49	21°55	10° 2	17°33	17° 9	9°49	5°49	20° 4	19°41	22°48	0° 2	F 24
S 25	16 7 43	3° 2'50	19° 5	14°43	21°57	21°49	10°16	17°34	17° 9	9°51	5°50	20° 3	19°38	22°55	0° 3	S 25
S 26	16 11 40	4° 0'22	2♂A45	16°30	23° 5	21°43	10°29	17°34	17°D 9	9°53	5°50	20°D 3	19°35	23° 2	0° 3	S 26
M27	16 15 36	4°57'53	16°42	18°19	24°14	21°39	10°43	17°35	17° 9	9°56	5°50	20° 3	19°32	23° 8	0° 4	M27
T 28	16 19 33	5°55'24	0♂Y57	20°10	25°23	21°35	10°57	17°36	17° 9	9°58	5°50	20° 4	19°29	23°15	0° 4	T 28
W29	16 23 30	6°52'54	15°27	22° 3	26°31	21°32	11°10	17°36	17° 9	10° 0	5°51	20° 5	19°25	23°22	0° 5	W29
T 30	16 27 26	7°50'23	0♂A 9	23°59	27°40	21°29	11°24	17°37	17°10	10° 2	5°51	20° 6	19°22	23°28	0° 5	T 30
F 31	16 31 23	8♂M47'51	14♂B57	25♂B56	28♂Y49	21♂A28	11♂B37	17♂M38	17♂M10	10♂B 4	5♂M51	20°R 7	19♂M19	23♂A35	0♂A 5	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	14n49	5n48	3n41	3n12	2s44	2s58	1s 8	9s41	1n 3	12n 9	0s59	6n58	2n22	5n43	0n48	12n52
T 2	15 7	10 38	2 34	3 22	2 50	2 35	1 11	9 36	1 0	12 14	0 59	6 59	2 21	5 43	0 48	12 52
F 3	15 25	14 50	1 16	3 35	2 55	2 12	1 15	9 31	0 57	12 19	0 59	6 59	2 21	5 43	0 48	12 53
S 4	15 43	18 1	0s 7	3 50	2 59	1 49	1 18	9 26	0 55	12 24	0 59	7 0	2 21	5 44	0 47	12 54
S 5	16 0	19 55	1 28	4 7	3 3	1 26	1 22	9 21	0 52	12 28	0 59	7 0	2 21	5 44	0 47	12 55
M 6	16 17	20 27	2 42	4 26	3 6	1 3	1 25	9 17	0 49	12 33	0 59	7 1	2 21	5 45	0 47	12 55
T 7	16 34	19 40	3 44	4 46	3 8	0 39	1 28	9 12	0 47	12 38	0 59	7 1	2 21	5 45	0 47	12 56
W 8	16 51	17 44	4 31	5 8	3 9	0 15	1 31	9 8	0 44	12 43	0 59	7 2	2 20	5 45	0 47	12 57
T 9	17 7	14 55	5 1	5 32	3 10	0n 8	1 34	9 4	0 41	12 47	0 59	7 2	2 20	5 46	0 47	12 57
F 10	17 24	11 28	5 16	5 57	3 10	0 32	1 36	9 0	0 38	12 52	0 59	7 2	2 20	5 46	0 47	12 58
S 11	17 39	7 35	5 16	6 23	3 9	0 56	1 39	8 57	0 36	12 57	0 59	7 3	2 20	5 46	0 47	12 59
S 12	17 55	3 29	5 0	6 51	3 8	1 21	1 41	8 53	0 33	13 1	0 59	7 3	2 20	5 46	0 47	13 0
M13	18 10	0s41	4 32	7 20	3 6	1 45	1 44	8 50	0 30	13 6	0 59	7 3	2 20	5 47	0 47	13 0
T 14	18 25	4 47	3 53	7 50	3 3	2 9	1 46	8 47	0 28	13 10	0 59	7 3	2 19	5 47	0 47	13 1
W15	18 40	8 42	3 4	8 22	3 0	2 34	1 48	8 44	0 25	13 15	0 59	7 3	2 19	5 47	0 47	13 2
T 16	18 54	12 17	2 7	8 55	2 56	2 58	1 50	8 42	0 22	13 19	0 59	7 3	2 19	5 47	0 47	13 2
F 17	19 8	15 23	1 4	9 28	2 52	3 23	1 52	8 39	0 20	13 24	0 59	7 3	2 19	5 47	0 47	13 3
S 18	19 22	17 52	0n 2	10 3	2 47	3 47	1 54	8 38	0 17	13 28	0 59	7 3	2 19	5 47	0 47	13 4
S 19	19 35	19 35	1 8	10 38	2 41	4 12	1 55	8 36	0 15	13 33	0 59	7 3	2 18	5 48	0 47	13 4
M20	19 48	20 25	2 13	11 14	2 35	4 36	1 57	8 34	0 12	13 37	0 59	7 3	2 18	5 48	0 47	13 5
T 21	20 1	20 15	3 11	11 51	2 29	5 1	1 59	8 33	0 9	13 42	0 59	7 3	2 18	5 48	0 47	13 6
W22	20 13	19 6	4 2	12 29	2 22	5 26	2 0	8 32	0 7	13 46	0 59	7 2	2 18	5 48	0 47	13 6
T 23	20 25	16 57	4 41	13 7	2 14	5 50	2 1	8 32	0 4	13 51	0 59	7 2	2 18	5 48	0 47	13 7
F 24	20 37	13 54	5 7	13 45	2 6	6 15	2 2	8 31	0 2	13 55	0 59	7 2	2 17	5 48	0 47	13 8
S 25	20 48	10 6	5 17	14 24	1 58	6 39	2 3	8 31	0s 0	13 59	0 59	7 2	2 17	5 48	0 47	13 8
S 26	20 59	5 42	5 9	15 3	1 49	7 4	2 4	8 31	0 3	14 3	0 59	7 1	2 17	5 48	0 47	13 9
M27	21 9	0 54	4 43	15 43	1 40	7 28	2 5	8 32	0 5	14 8	0 59	7 1	2 17	5 48	0 47	13 10
T 28	21 20	4n 3	4 0	16 22	1 30	7 53	2 6	8 32	0 8	14 12	0 59	7 0	2 17	5 48	0 46	13 10
W29	21 29	8 52	3 0	17 1	1 20	8 17	2 6	8 33	0 10	14 16	0 59	7 0	2 17	5 48	0 46	13 11
T 30	21 39	13 14	1 48	17 40	1 10	8 41	2 7	8 35	0 12	14 20	0 59	6 59	2 16	5 47	0 46	13 11
F 31	21n48	16n48	0n29	18n18	1s 0	9n 5	2s 7	8s36	0s14	14n24	0s59	6n59	2n16	5n47	0n46	13n12

Julian Day Number = 2347570.5, Delta T = 10.75 sec
 Ecliptic obliquity = 23°28'29", Nutation = 0°00'12", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°45'59", Lahiri = 19°52'59"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1715

geocentric

JULY 1715

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 33 36	8°23'28	7°51'17	28°50'50	4°11'58	26°43'39	18°8'8	18°11'58	17°11'44	10°8'58	6°11'18	19°9'9	17°11'41	27°11'1	29°9'44	M 1
T 2	18 37 32	9°20'41	21°10'10	0°11'28	6°9'9	26°59'18	18°19'19	19°2'2	17°45'10	10°59'6	6°19'19	19°11'2	17°37'27	27°8'8	29°43'43	T 2
W 3	18 41 29	10°17'54	4°11'44	2°4'4	7°20'27	27°19'18	18°30'19	6'17	17°47'11	1°1'6	6°20'18	18°53'17	17°34'27	27°15'29	29°41'41	W 3
T 4	18 45 26	11°15'06	17°58'33	3°38'8	8°31'27	27°39'18	18°42'19	10'17	17°49'11	2°6	6°22'18	18°45'17	17°31'27	27°21'29	29°39'39	T 4
F 5	18 49 22	12°12'19	0°11'50	5°10'9	9°42'28	28°1'18	18°53'19	14'17	17°51'11	3°6	6°23'18	18°37'17	17°28'27	27°28'29	29°37'37	F 5
S 6	18 53 19	13°9'32	13°22'6	6°39'10	10°53'28	28°22'19	4°19	19°19'17	5°11	5°6	6°25'18	18°32'17	17°25'27	27°35'29	29°36'36	S 6
S 7	18 57 15	14°6'44	25°36'8	7°12'5	12°5'28	28°44'19	15°19	23°19	17°56'11	6°6	6°26'18	18°28'17	17°22'27	27°41'29	29°34'34	S 7
M 8	19 1 12	15°3'57	7°11'37	9°32'13	13°16'29	29°7'19	26°19	27°19	17°58'11	7°6	6°27'18	18°26'17	17°18'27	27°48'29	29°32'32	M 8
T 9	19 5 8	16°1'09	19°30'10	10°55'14	14°27'29	29°30'19	36°19	32°19	18°0'11	8°6	6°29'18	18°25'17	17°15'27	27°54'29	29°30'30	T 9
W10	19 9 5	16°58'22	1°11'19	12°15'15	15°39'29	29°53'19	47°19	37°19	18°2'11	9°6	6°30'18	18°26'17	17°12'28	28°1'29	29°28'28	W10
T 11	19 13 1	17°55'34	13°10'13	13°33'16	16°50'0	11°17	19°58	19°41	18°4'11	11°6	6°32'18	18°27'17	17°9'28	28°8'29	29°26'26	T 11
F 12	19 16 58	18°52'47	25°8'14	14°49'18	1°0'41	20°8'19	46°18	7°11	18°7'11	12°6	6°33'18	18°27'17	17°6'28	28°14'29	29°24'24	F 12
S 13	19 20 55	19°50'00	7°11'17	16°3'19	1°5'19	20°18'19	51°18	9°11	18°9'11	13°6	6°35'18	18°25'17	17°2'28	28°21'29	29°22'22	S 13
S 14	19 24 51	20°47'13	19°42'17	17°14'20	2°13'1	20°29'19	56°18	12°11	18°12'11	14°6	6°36'18	18°21'16	16°59'28	28°28'29	29°20'20	S 14
M15	19 28 48	21°44'26	2°11'24	18°22'21	1°36'1	20°39'20	1°18	14°11	18°15'11	15°6	6°38'18	18°15'16	16°56'28	28°34'29	29°18'18	M15
T 16	19 32 44	22°41'40	15°24'19	19°28'22	2°48'2	20°49'20	6°18	16°11	18°16'11	16°6	6°40'18	18°6'16	16°53'28	28°41'29	29°15'15	T 16
W17	19 36 41	23°38'54	28°43'20	31°23	2°59'2	20°59'20	11°18	19°11	18°19'11	17°6	6°41'17	17°56'16	16°50'28	28°48'29	29°13'13	W17
T 18	19 40 37	24°36'09	12°11'21	1°31'25	1°11'3	21°9'20	16°18	22°11	18°22'11	18°6	6°43'17	17°45'16	16°47'28	28°54'29	29°11'11	T 18
F 19	19 44 34	25°33'24	26°8'22	2°28'26	1°23'3	21°18'20	21°18	24°18	18°24'11	19°6	6°44'17	17°35'16	16°43'29	29°1'29	29°8'8	F 19
S 20	19 48 30	26°30'40	10°11'7	23°22'27	3°5'4	21°28'20	27°18	27°11	18°27'11	20°6	6°46'17	17°27'16	16°40'29	29°8'29	29°6'6	S 20
S 21	19 52 27	27°27'57	24°11'24	13°28	4°35'21	21°37'20	32°18	29°11	18°29'11	20°6	6°48'17	17°21'16	16°37'29	29°14'29	29°4'4	S 21
M22	19 56 24	28°25'15	8°11'19	25°1'29	5°3'21	21°47'20	38°18	32°11	18°32'11	21°6	6°50'17	17°17'16	16°34'29	29°21'29	29°1'1	M22
T 23	20 0 20	29°22'34	22°28'25	4°45'1	5°31'21	21°56'20	43°18	35°11	18°35'11	22°6	6°51'17	17°16'16	16°31'29	29°28'28	28°59'59	T 23
W24	20 4 17	0°11'53	6°11'36	26°26'2	2°23'6	22°5'20	49°18	38°11	18°38'11	23°6	6°53'17	17°15'16	16°27'29	29°34'28	28°56'56	W24
T 25	20 8 13	1°17'14	20°43'27	3°3'3	3°35'6	22°14'20	54°18	40°11	18°40'11	23°6	6°55'17	17°16'16	16°24'29	29°41'28	28°53'53	T 25
F 26	20 12 10	2°14'36	4°11'46	27°35'4	4°47'6	22°23'21	0°18	43°11	18°43'11	24°6	6°57'17	17°15'16	16°21'29	29°48'28	28°51'51	F 26
S 27	20 16 6	3°11'59	18°45'28	4°5'59	7°27'22	22°32'21	6°18	46°11	18°46'11	25°6	6°58'17	17°12'16	16°18'29	29°54'28	28°48'48	S 27
S 28	20 20 3	4°9'23	2°11'38	28°29'7	12°7'57	22°40'21	12°18	49°11	18°49'11	25°0	7°0'17	17°6'16	16°15'0	28°46'1	28°46'1	S 28
M29	20 23 59	5°6'49	16°22'28	8°4'8	8°27'22	22°49'21	17°18	52°11	18°52'11	26°7	7°2'16	16°57'16	16°12'0	28°43'1	28°43'1	M29
T 30	20 27 56	6°4'15	29°54'29	4°9'36	8°57'22	22°57'21	23°18	55°11	18°55'11	27°4	7°4'16	16°46'16	16°8'0	28°40'1	28°40'1	T 30
W31	20 31 53	7°11'42	13°11'12	29°14'10	9°49'10	23°5'21	29°18	58°11	18°58'11	27°6	7°6'16	16°34'16	16°5'0	28°37'1	28°37'1	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	decl	lat
M 1	23n12	19n28	3s49	22n 3	1n40	19n34	1s37	11s20	1s 7	16n17	1s 0	6n22	2n10	5n33	0n45	13n28	1s46	21n34	13n21	17s32	17s 8	12s 7	5s37	6n22					
T 2	23 9	17 20	4 32	21 38	1 35	19 48	1 35	11 29	1 9	16 20	1 0	6 21	2 10	5 32	0 45	13 28	1 46	21 33	13 21	17 30	17 7	12 9	5 37	6 22					
W 3	23 4	14 17	4 58	21 11	1 30	20 2	1 33	11 37	1 10	16 23	1 0	6 19	2 10	5 31	0 45	13 28	1 46	21 32	13 20	17 28	17 6	12 11	5 37	6 23					
T 4	23 0	10 36	5 7	20 44	1 24	20 15	1 31	11 46	1 11	16 26	1 1	6 17	2 10	5 31	0 45	13 29	1 46	21 32	13 20	17 26	17 5	12 12	5 38	6 23					
F 5	22 55	6 31	5 0	20 16	1 18	20 28	1 29	11 54	1 12	16 29	1 1	6 15	2 10	5 30	0 45	13 29	1 46	21 31	13 20	17 24	17 4	12 14	5 38	6 23					
S 6	22 49	2 15	4 39	19 47	1 11	20 41	1 27	12 3	1 13	16 32	1 1	6 13	2 10	5 29	0 45	13 30	1 46	21 30	13 20	17 22	17 3	12 16	5 38	6 23					
S 7	22 44	2s 0	4 5	19 17	1 4	20 53	1 24	12 12	1 14	16 35	1 1	6 12	2 9	5 28	0 45	13 30	1 46	21 29	13 19	17 21	17 2	12 17	5 39	6 24					
M 8	22 37	6 6	3 21	18 47	0 56	21 4	1 22	12 21	1 16	16 38	1 1	6 10	2 9	5 27	0 45	13 30	1 46	21 29	13 19	17 20	17 1	12 19	5 39	6 24					
T 9	22 31	9 56	2 29	18 17	0 47	21 15	1 20	12 30	1 17	16 41	1 1	6 8	2 9	5 26	0 45	13 31	1 46	21 28	13 19	17 20	17 1	12 20	5 40	6 24					
W10	22 24	13 22	1 31	17 46	0 39	21 25	1 17	12 39	1 18	16 44	1 1	6 6	2 9	5 25	0 45	13 31	1 46	21 27	13 19	17 20	17 0	12 22	5 40	6 24					
T 11	22 16	16 16	0 28	17 15	0 30	21 35	1 15	12 49	1 19	16 47	1 1	6 4	2 9	5 24	0 45	13 31	1 46	21 26	13 18	17 21	16 59	12 24	5 41	6 25					
F 12	22 9	18 30	0n36	16 44	0 20	21 44	1 12	12 58	1 20	16 49	1 1	6 2	2 9	5 23	0 45	13 31	1 46	21 25	13 18	17 21	16 58	12 25	5 41	6 25					
S 13	22 0	19 56	1 39	16 13	0 10	21 53	1 10	13 8	1 21	16 52	1 1	6 0	2 8	5 23	0 45	13 32	1 46	21 25	13 18	17 20	16 57	12 27	5 42	6 25					
S 14	21 52	20 26	2 39	15 42	0s 0	22 1	1 7	13 17	1 22	16 55	1 1	5 58	2 8	5 22	0 45	13 32	1 47	21 24	13 18	17 19	16 56	12 28	5 42	6 25					
M15	21 43	19 55	3 32	15 11	0 11	22 8	1 4	13 27	1 23	16 57	1 1	5 56	2 8	5 21	0 45	13 32	1 47	21 23	13 17	17 17	16 55	12 30	5 43	6 25					
T 16	21 34	18 21	4 16	14 40	0 22	22 15	1 2	13 37	1 23	17 0	1 2	5 53	2 8	5 20	0 44	13 32	1 47	21 22	13 17	17 15	16 54	12 32	5 43	6 26					
W17	21 24	15 46	4 46	14 9	0 33	22 21	0 59	13 47	1 24	17 2	1 2	5 51	2 8	5 19	0 44	13 33	1 47	21 21	13 17	17 12	16 53	12 33	5 44	6 26					
T 18	21 14	12 18	5 2	13 39	0 44	22 27	0 56	13 57	1 25	17 5	1 2	5 49	2 8	5 17	0 44	13 33	1 47	21 21	13 17	17 9	16 52	12 35	5 44	6 26					
F 19	21 4	8 8	5 0	13 9	0 56	22 32	0 54	14 7	1 26	17 7	1 2	5 47	2 8	5 16	0 44	13 33	1 47	21 20	13 17	17 6	16 52	12 36	5 45	6 26					
S 20	20 53	3 28	4 40	12 40	1 8	22 36	0 51	14 17	1 27	17 10	1 2	5 45	2 8	5 15	0 44	13 33	1 47	21 19	13 16	17 4	16 51	12 38	5 46	6 26					
S 21	20 42	1n24	4 3	12 12	1 21	22 40	0 48	14 27	1 28	17 12	1 2	5 42	2 7	5 14	0 44	13 34	1 47	21 18	13 16	17 2	16 50	12 40	5 46	6 27					
M22	20 30	6 14	3 11	11 45	1 33	22 43	0 45	14 37	1 29	17 14	1 2	5 40	2 7	5 13	0 44	13 34	1 47	21 17	13 16	17 1	16 49	12 41	5 47	6 27					
T 23	20 19	10 44	2 8	11 18	1 46	22 45	0 43	14 47	1 29	17 17	1 2	5 38	2 7	5 12	0 44	13 34	1 47	21 16	13 16	17 1	16 48	12 43	5 48	6 27					
W24	20 7	14 38	0 56	10 52	1 58	22 47	0 40	14 57	1 30	17 19	1 2	5 36	2 7	5 11	0 44	13 34	1 47	21 16	13 16	17 1	16 47	12 44	5 49	6 27					
T 25	19 54	17 40	0s18	10 28	2 11	22 48	0 37	15 8	1 31	17 21	1 2	5 33	2 7	5 10	0 44	13 34	1 47	21 15	13 15	17 1	16 46	12 46	5 49	6 27					
F 26	19 41	19 37	1 32	10 5	2 24	22 49	0 34	15 18	1 32	17 23	1 3	5 31	2 7	5 9	0 44	13 34	1 47	21 14	13 15	17 0	16 45	12 47	5 50	6 27					
S 27	19 28	20 22	2 39	9 43	2 37	22 49	0 32	15 28	1 32	17 25	1 3	5 28	2 7	5 8	0 44	13 35	1 47	21 13	13 15	17 0	16 44	12 49	5 51	6 27					
S 28	19 15	19 51	3 36	9 22	2 49	22 48	0 29	15 39	1 33	17 27	1 3	5 26	2 7	5 6	0 44	13 35	1 47	21 12	13 15	16 58	16 43	12 51	5 52	6 28					
M29	19 1	18 10	4 20	9 4	3 2	22 47	0 26	15 49	1 34	17 29	1 3	5 24	2 6	5 5	0 44	13 35	1 47	21 11	13 15	16 55	16 42	12 52	5 52	6 28					
T 30	18 47	15 30	4 48	8 47	3 14	22 45	0 23	16 0	1 35	17 31	1 3	5 21	2 6	5 4	0 44	13 35	1 47	21 11	13 15	16 52	16 41	12 54	5 53	6 28					
W31	18n33	12n 5	5s 0	8n32	3s26	22n42	0s20	16s10	1s35	17n33	1s 3	5n19	2n 6	5n 3	0n44	13n35	1s48	21n10	13n15	16s49	16s41	12s55	5s54	6n28					

ASTRODIENST EPHEMERIS for the year 1715

geocentric

AUGUST 1715

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 35 49	7♏59°09	26♏13	29♏19	12♏1	9♏59	23♏13	21♏35	19♏1	11♏28	7♏7	16♏R22	16♏2	0♏27	28°R35	T 1
F 2	20 39 46	8°56'38	8♏56	29°R20	13°14	10°30	23°21	21°41	19°4	11°28	7°9	16♏10	15°59	0°34	28°32	F 2
S 3	20 43 42	9°54'08	21°23	29°14	14°26	11°2	23°29	21°48	19°7	11°28	7°11	16°1	15°56	0°41	28°29	S 3
S 4	20 47 39	10°51'38	3♏34	29°4	15°39	11°33	23°37	21°54	19°10	11°29	7°13	15°54	15°53	0°47	28°26	S 4
M 5	20 51 35	11°49'09	15°33	28°48	16°51	12°5	23°44	22°0	19°14	11°29	7°15	15°50	15°49	0°54	28°23	M 5
T 6	20 55 32	12°46'41	27°24	28°27	18°4	12°38	23°52	22°6	19°17	11°29	7°17	15°47	15°46	1°1	28°20	T 6
W 7	20 59 28	13°44'14	9♏12	28°1	19°17	13°10	23°59	22°13	19°20	11°30	7°19	15°47	15°43	1°7	28°18	W 7
T 8	21 3 25	14°41'48	21°3	27°30	20°30	13°43	24°6	22°19	19°23	11°30	7°21	15°47	15°40	1°14	28°15	T 8
F 9	21 7 22	15°39'23	3♏2	26°54	21°42	14°16	24°13	22°26	19°27	11°30	7°23	15°46	15°37	1°21	28°12	F 9
S 10	21 11 18	16°36'59	15°13	26°13	22°55	14°49	24°20	22°32	19°30	11°30	7°25	15°44	15°33	1°27	28°9	S 10
S 11	21 15 15	17°34'36	27°43	25°29	24°8	15°23	24°26	22°39	19°33	11°31	7°27	15°40	15°30	1°34	28°6	S 11
M12	21 19 11	18°32'14	10♏34	24°42	25°21	15°57	24°33	22°45	19°37	11°31	7°29	15°33	15°27	1°41	28°3	M12
T 13	21 23 8	19°29'53	23°48	23°53	26°34	16°31	24°39	22°52	19°40	11°31	7°31	15°23	15°24	1°47	28°0	T 13
W14	21 27 4	20°27'33	7♏25	23°2	27°47	17°5	24°45	22°58	19°43	11°31	7°33	15°12	15°21	1°54	27°57	W14
T 15	21 31 1	21°25'14	21°22	22°10	29°0	17°39	24°51	23°5	19°47	11°R31	7°35	15°0	15°18	2°1	27°54	T 15
F 16	21 34 57	22°22'57	5♏37	21°19	0♏14	18°14	24°57	23°12	19°50	11°31	7°37	14°49	15°14	2°7	27°51	F 16
S 17	21 38 54	23°20'41	20°2	20°30	1°27	18°49	25°2	23°19	19°54	11°31	7°39	14°39	15°11	2°14	27°48	S 17
S 18	21 42 51	24°18'26	4♏31	19°43	2°40	19°24	25°8	23°25	19°57	11°31	7°41	14°32	15°8	2°20	27°45	S 18
M19	21 46 47	25°16'14	18°58	18°59	3°53	19°59	25°13	23°32	20°1	11°31	7°43	14°28	15°5	2°27	27°42	M19
T 20	21 50 44	26°14'03	3♏20	18°20	5°7	20°35	25°18	23°39	20°4	11°31	7°45	14°26	15°2	2°34	27°39	T 20
W21	21 54 40	27°11'53	17°34	17°46	6°20	21°11	25°23	23°46	20°8	11°30	7°47	14°D26	14°59	2°40	27°36	W21
T 22	21 58 37	28°9'46	1♏37	17°18	7°33	21°46	25°28	23°53	20°11	11°30	7°49	14°R26	14°55	2°47	27°33	T 22
F 23	22 2 33	29°7'41	15°30	16°57	8°47	22°23	25°33	24°0	20°15	11°30	7°51	14°25	14°52	2°54	27°30	F 23
S 24	22 6 30	0♏5'37	29°12	16°44	10°0	22°59	25°37	24°7	20°18	11°30	7°53	14°22	14°49	3°0	27°27	S 24
S 25	22 10 26	1°3'35	12♏43	16°D38	11°14	23°35	25°42	24°14	20°22	11°29	7°55	14°17	14°46	3°7	27°24	S 25
M26	22 14 23	2°1'35	26°4	16°41	12°28	24°12	25°46	24°21	20°26	11°29	7°58	14°9	14°43	3°14	27°21	M26
T 27	22 18 20	2°59'37	9♏13	16°51	13°41	24°49	25°50	24°28	20°29	11°29	8°0	13°58	14°39	3°20	27°18	T 27
W28	22 22 16	3°57'40	22°9	17°10	14°55	25°26	25°53	24°35	20°33	11°28	8°2	13°47	14°36	3°27	27°15	W28
T 29	22 26 13	4°55'46	4♏53	17°37	16°9	26°3	25°57	24°42	20°37	11°28	8°4	13°35	14°33	3°34	27°12	T 29
F 30	22 30 9	5°53'52	17°22	18°13	17°22	26°41	26°0	24°50	20°40	11°27	8°6	13°23	14°30	3°40	27°9	F 30
S 31	22 34 6	6♏52°01	29♏39	18♏56	18♏36	27♏18	26♏3	24♏57	20♏44	11♏27	8♏8	13♏14	14♏27	3♏47	27°36	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
T 1	18n18	8n 9	4s57	8n19	3s38	22n38	0s17	16s21	1s36	17n35	1s 3	5n16	2n 6	5n 2	0n44	13n35	1s48	21n 9	13n14	16s45	16s40	12s57	5s55	6n28			
F 2	18 3	3 56	4 38	8 9	3 49	22 34	0 15	16 31	1 36	17 37	1 3	5 14	2 6	5 0	0 44	13 35	1 48	21 8	13 14	16 42	16 39	12 58	5 56	6 28			
S 3	17 48	0s21	4 6	8 0	4 0	22 30	0 12	16 42	1 37	17 39	1 3	5 11	2 6	4 59	0 44	13 35	1 48	21 7	13 14	16 39	16 38	13 0	5 57	6 28			
S 4	17 32	4 32	3 24	7 55	4 10	22 24	0 9	16 52	1 38	17 41	1 4	5 9	2 6	4 58	0 44	13 35	1 48	21 6	13 14	16 37	16 37	13 1	5 58	6 28			
M 5	17 16	8 29	2 33	7 52	4 19	22 18	0 6	17 3	1 38	17 42	1 4	5 6	2 6	4 57	0 44	13 35	1 48	21 6	13 14	16 36	16 36	13 3	5 58	6 28			
T 6	17 0	12 3	1 36	7 51	4 27	22 12	0 4	17 13	1 39	17 44	1 4	5 4	2 6	4 55	0 44	13 35	1 48	21 5	13 14	16 35	16 35	13 4	5 59	6 28			
W 7	16 44	15 8	0 35	7 54	4 34	22 4	0 1	17 24	1 39	17 46	1 4	5 1	2 6	4 54	0 44	13 36	1 48	21 4	13 14	16 35	16 34	13 6	6 0	6 28			
T 8	16 27	17 36	0n28	7 59	4 39	21 56	0n 2	17 34	1 40	17 47	1 4	4 58	2 5	4 53	0 44	13 36	1 48	21 3	13 14	16 35	16 33	13 7	6 1	6 28			
F 9	16 10	19 19	1 30	8 7	4 44	21 48	0 5	17 44	1 40	17 49	1 4	4 56	2 5	4 51	0 44	13 36	1 48	21 2	13 14	16 35	16 32	13 9	6 2	6 28			
S 10	15 53	20 11	2 29	8 18	4 47	21 39	0 7	17 55	1 41	17 51	1 4	4 53	2 5	4 50	0 44	13 36	1 48	21 1	13 13	16 34	16 31	13 11	6 3	6 29			
S 11	15 35	20 5	3 23	8 31	4 48	21 29	0 10	18 5	1 41	17 52	1 4	4 50	2 5	4 49	0 44	13 36	1 48	21 1	13 13	16 33	16 30	13 12	6 4	6 29			
M12	15 18	18 57	4 7	8 48	4 47	21 18	0 13	18 16	1 42	17 53	1 4	4 48	2 5	4 47	0 44	13 36	1 48	21 0	13 13	16 31	16 30	13 14	6 5	6 29			
T 13	15 0	16 47	4 40	9 6	4 44	21 7	0 15	18 26	1 42	17 55	1 5	4 45	2 5	4 46	0 44	13 35	1 48	20 59	13 13	16 28	16 29	13 15	6 6	6 29			
W14	14 41	13 38	4 58	9 27	4 40	20 56	0 18	18 36	1 43	17 56	1 5	4 42	2 5	4 45	0 44	13 35	1 48	20 58	13 13	16 25	16 28	13 17	6 7	6 29			
T 15	14 23	9 40	4 59	9 49	4 34	20 43	0 20	18 46	1 43	17 58	1 5	4 40	2 5	4 43	0 44	13 35	1 48	20 57	13 13	16 22	16 27	13 18	6 8	6 29			
F 16	14 4	5 6	4 42	10 13	4 26	20 30	0 23	18 57	1 44	17 59	1 5	4 37	2 5	4 42	0 44	13 35	1 48	20 56	13 13	16 18	16 26	13 20	6 9	6 29			
S 17	13 45	0 11	4 6	10 38	4 16	20 17	0 26	19 7	1 44	18 0	1 5	4 34	2 5	4 41	0 44	13 35	1 49	20 56	13 13	16 16	16 25	13 21	6 10	6 29			
S 18	13 26	4n46	3 15	11 4	4 4	20 3	0 28	19 17	1 44	18 1	1 5	4 31	2 5	4 39	0 44	13 35	1 49	20 55	13 13	16 13	16 24	13 23	6 11	6 29			
M19	13 7	9 27	2 11	11 30	3 51	19 48	0 30	19 27	1 45	18 2	1 5	4 29	2 5	4 38	0 44	13 35	1 49	20 54	13 13	16 12	16 23	13 24	6 12	6 28			
T 20	12 47	13 34	0 59	11 55	3 36	19 33	0 33	19 37	1 45	18 3	1 6	4 26	2 5	4 36	0 44	13 35	1 49	20 53	13 13	16 12	16 22	13 26	6 13	6 28			
W21	12 28	16 50	0s17	12 21	3 21	19 17	0 35	19 46	1 45	18 5	1 6	4 23	2 5	4 35	0 44	13 35	1 49	20 52	13 13	16 12	16 21	13 27	6 14	6 28			
T 22	12 8	19 3	1 30	12 45	3 4	19 1	0 38	19 56	1 46	18 6	1 6	4 20	2 5	4 34	0 44	13 35	1 49	20 52	13 13	16 12	16 20	13 28	6 16	6 28			
F 23	11 48	20 5	2 37	13 8	2 46	18 44	0 40	20 6	1 46	18 7	1 6	4 17	2 4	4 32	0 44	13 35	1 49	20 51	13 13	16 11	16 19	13 30	6 17	6 28			
S 24	11 27	19 54	3 34	13 29	2 28	18 26	0 42	20 16	1 46	18 7	1 6	4 15	2 4	4 31	0 44	13 35	1 49	20 50	13 13	16 11	16 18	13 31	6 18	6 28			
S 25	11 7	18 35	4 18	13 48	2 10	18 9	0 44	20 25	1 47	18 8	1 6	4 12	2 4	4 29	0 44	13 34	1 49	20 49	13 13	16 9	16 17	13 33	6 19	6 28			
M26	10 46	16 16	4 47	14 5	1 52	17 50	0 47	20 35	1 47	18 9	1 6	4 9	2 4	4 28	0 44	13 34	1 49	20 48	13 13	16 6	16 16	13 34	6 20	6 28			
T 27	10 25	13 8	5 1	14 20	1 33	17 31	0 49	20 44	1 47	18 10	1 6	4 6	2 4	4 26	0 43	13 34	1 49	20 48	13 13	16 3	16 16	13 36	6 21	6 28			
W28	10 4	9 26	4 59	14 31	1 15	17 12	0 51	20 53	1 48	18 11	1 7	4 3	2 4	4 25	0 43	13 34	1 49	20 47	13 13	16 0	16 15	13 37	6 22	6 28			
T 29	9 43	5 22	4 42	14 40	0 57	16 52	0 53	21 2	1 48	18 11	1 7	4 0	2 4	4 23	0 43	13 34	1 49	20 46	13 13	15 56	16 14	13 39	6 23	6 28			
F 30	9 22	1 8	4 11	14 46	0 40	16 31	0 55	21 12	1 48	18 12	1 7	3 57	2 4	4 22	0 43	13 33	1 49	20 45	13 13	15 53	16 13	13 40	6 24	6 28			
S 31	9n 0	3s 4	3s30	14n48	0s23	16n10	0n57	21s21	1s48	18n13	1s 7	3n55	2n 4	4n21	0n43	13n33	1s49	20n45	13n13	15s50	16s12	13s42	6s25	6n27			

ASTRODIENST EPHEMERIS for the year 1715

geocentric

SEPTEMBER 1715

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 38 2	7 ^h 50'11"	11 ^h 43	19 ^h 47	19 ^h 50	27 ^h 56	26 ^h 8 6	25 ^h 4 20	20 ^h 48	11 ^h R26	8 ^h 10	13 ^h R 7	14 ^h 24	3 ^h 54	27 ^h R 3	S 1
M 2	22 41 59	8°48'22"	23°38	20°46	21° 4	28°34	26° 9	25°11	20°51	11 ^h 826	8°12	13 ^h 3	14°20	4° 0	27 ^h ∞ 0	M 2
T 3	22 45 55	9°46'35"	5 ^h 127	21°52	22°18	29°12	26°12	25°19	20°55	11°25	8°14	13° 1	14°17	4° 7	26°57	T 3
W 4	22 49 52	10°44'50"	17°14	23° 4	23°32	29°51	26°14	25°26	20°59	11°25	8°16	13°D 1	14°14	4°13	26°54	W 4
T 5	22 53 49	11°43'07"	29° 3	24°22	24°46	0 ^h 29	26°16	25°33	21° 3	11°24	8°19	13° 1	14°11	4°20	26°51	T 5
F 6	22 57 45	12°41'24"	11 ^h 27 0	25°46	26° 0	1° 8	26°18	25°40	21° 6	11°23	8°21	13°R 2	14° 8	4°27	26°48	F 6
S 7	23 1 42	13°39'44"	23°11	27°15	27°14	1°46	26°20	25°48	21°10	11°23	8°23	13° 1	14° 5	4°33	26°45	S 7
S 8	23 5 38	14°38'05"	5 ^h 340	28°48	28°28	2°25	26°22	25°55	21°14	11°22	8°25	12°59	14° 1	4°40	26°42	S 8
M 9	23 9 35	15°36'28"	18°32	0 ^h 26	29°42	3° 4	26°23	26° 2	21°18	11°21	8°27	12°55	13°58	4°47	26°40	M 9
T 10	23 13 31	16°34'52"	1 ^h 350	2° 6	0 ^h 56	3°44	26°25	26°10	21°21	11°20	8°29	12°48	13°55	4°53	26°37	T 10
W11	23 17 28	17°33'18"	15°35	3°50	2°11	4°23	26°26	26°17	21°25	11°20	8°31	12°40	13°52	5° 0	26°34	W11
T 12	23 21 24	18°31'45"	29°45	5°35	3°25	5° 3	26°27	26°25	21°29	11°19	8°33	12°32	13°49	5° 7	26°31	T 12
F 13	23 25 21	19°30'14"	14 ^h 17	7°23	4°39	5°42	26°27	26°32	21°33	11°18	8°35	12°23	13°45	5°13	26°28	F 13
S 14	23 29 17	20°28'46"	29° 4	9°12	5°53	6°22	26°28	26°39	21°37	11°17	8°37	12°16	13°42	5°20	26°26	S 14
S 15	23 33 14	21°27'19"	13 ^h 57	11° 2	7° 8	7° 2	26°28	26°47	21°40	11°16	8°39	12°11	13°39	5°27	26°23	S 15
M16	23 37 11	22°25'54"	28°48	12°53	8°22	7°42	26°R28	26°54	21°44	11°15	8°41	12° 8	13°36	5°33	26°21	M16
T 17	23 41 7	23°24'31"	13 ^h 31	14°44	9°37	8°23	26°28	27° 2	21°48	11°14	8°43	12°D 8	13°33	5°40	26°18	T 17
W18	23 45 4	24°23'11"	28° 0	16°35	10°51	9° 3	26°27	27° 9	21°52	11°13	8°45	12° 8	13°30	5°47	26°15	W18
T 19	23 49 0	25°21'53"	12 ^h 12	18°27	12° 6	9°43	26°27	27°17	21°55	11°12	8°47	12° 9	13°26	5°53	26°13	T 19
F 20	23 52 57	26°20'37"	26° 6	20°18	13°20	10°24	26°26	27°24	21°59	11°11	8°50	12°R10	13°23	6° 0	26°10	F 20
S 21	23 56 53	27°19'24"	9 ^h 342	22° 9	14°35	11° 5	26°25	27°32	22° 3	11°10	8°52	12° 9	13°20	6° 6	26° 8	S 21
S 22	0 0 50	28°18'13"	23° 1	24° 0	15°49	11°46	26°24	27°39	22° 7	11° 9	8°54	12° 7	13°17	6°13	26° 5	S 22
M23	0 4 46	29°17'04"	6 ^h 49 5	25°50	17° 4	12°27	26°23	27°46	22°11	11° 8	8°56	12° 2	13°14	6°20	26° 3	M23
T 24	0 8 43	0 ^h 15'57"	18°55	27°39	18°18	13° 8	26°21	27°54	22°14	11° 6	8°58	11°56	13°10	6°26	26° 1	T 24
W25	0 12 40	1°14'53"	1 ^h 32	29°28	19°33	13°49	26°19	28° 1	22°18	11° 5	9° 0	11°49	13° 7	6°33	25°58	W25
T 26	0 16 36	2°13'50"	13°57	1 ^h 15	20°48	14°31	26°17	28° 9	22°22	11° 4	9° 1	11°41	13° 4	6°40	25°56	T 26
F 27	0 20 33	3°12'50"	26°11	3° 2	22° 3	15°12	26°15	28°16	22°26	11° 3	9° 3	11°35	13° 1	6°46	25°54	F 27
S 28	0 24 29	4°11'52"	8 ^h 16	4°49	23°17	15°54	26°13	28°24	22°29	11° 1	9° 5	11°29	12°58	6°53	25°52	S 28
S 29	0 28 26	5°10'56"	20°13	6°34	24°32	16°36	26°10	28°31	22°33	11° 0	9° 7	11°25	12°55	7° 0	25°50	S 29
M30	0 32 22	6 ^h 10'01"	2 ^h 3	8 ^h 19	25 ^h 47	17 ^h 27	26 ^h 8 8	28 ^h 38	22 ^h 37	10 ^h 859	9 ^h 9	11 ^h 23	12 ^h 51	7 ^h 6	25 ^h 48	M30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	8n39	7s 5	2s39	14n47	0s 7	15n49	0n59	21s29	1s48	18n13	1s 7	3n52	2n 4	4n19	0n43	13n33	1s49
M 2	8 17	10 46	1 42	14 43	0n 8	15 27	1 0	21 38	1 49	18 14	1 7	3 49	2 4	4 18	0 43	13 33	1 49
T 3	7 55	14 0	0 40	14 35	0 22	15 5	1 2	21 47	1 49	18 14	1 7	3 46	2 4	4 16	0 43	13 33	1 50
W 4	7 33	16 38	0n23	14 24	0 35	14 42	1 4	21 55	1 49	18 15	1 8	3 43	2 4	4 15	0 43	13 32	1 50
T 5	7 11	18 36	1 25	14 9	0 47	14 19	1 6	22 4	1 49	18 15	1 8	3 40	2 4	4 13	0 43	13 32	1 50
F 6	6 48	19 45	2 24	13 51	0 58	13 55	1 7	22 12	1 49	18 15	1 8	3 37	2 4	4 12	0 43	13 32	1 50
S 7	6 26	20 0	3 18	13 30	1 8	13 32	1 9	22 20	1 49	18 16	1 8	3 34	2 4	4 10	0 43	13 32	1 50
S 8	6 4	19 17	4 4	13 6	1 17	13 7	1 10	22 28	1 50	18 16	1 8	3 31	2 4	4 9	0 43	13 31	1 50
M 9	5 41	17 35	4 39	12 39	1 24	12 43	1 12	22 36	1 50	18 16	1 8	3 28	2 4	4 7	0 43	13 31	1 50
T 10	5 18	14 54	5 1	12 9	1 31	12 18	1 13	22 43	1 50	18 16	1 8	3 25	2 4	4 6	0 43	13 31	1 50
W11	4 55	11 19	5 6	11 37	1 36	11 52	1 14	22 51	1 50	18 16	1 8	3 23	2 4	4 4	0 43	13 30	1 50
T 12	4 33	7 0	4 53	11 2	1 41	11 27	1 16	22 58	1 50	18 16	1 9	3 20	2 4	4 3	0 43	13 30	1 50
F 13	4 10	2 11	4 21	10 26	1 45	11 1	1 17	23 6	1 50	18 17	1 9	3 17	2 4	4 1	0 43	13 30	1 50
S 14	3 47	2n51	3 31	9 47	1 47	10 34	1 18	23 13	1 50	18 16	1 9	3 14	2 4	4 0	0 43	13 29	1 50
S 15	3 24	7 45	2 26	9 7	1 49	10 8	1 19	23 20	1 50	18 16	1 9	3 11	2 4	3 58	0 43	13 29	1 50
M16	3 0	12 11	1 11	8 26	1 50	9 41	1 20	23 26	1 50	18 16	1 9	3 8	2 4	3 57	0 43	13 29	1 50
T 17	2 37	15 48	0s 8	7 43	1 50	9 14	1 21	23 33	1 50	18 16	1 9	3 5	2 4	3 55	0 43	13 28	1 50
W18	2 14	18 22	1 25	6 59	1 50	8 46	1 22	23 39	1 50	18 16	1 9	3 2	2 4	3 54	0 43	13 28	1 50
T 19	1 51	19 43	2 35	6 14	1 48	8 18	1 23	23 45	1 50	18 16	1 10	2 59	2 4	3 52	0 43	13 28	1 50
F 20	1 27	19 50	3 35	5 29	1 47	7 50	1 23	23 51	1 50	18 15	1 10	2 56	2 4	3 51	0 43	13 27	1 50
S 21	1 4	18 46	4 22	4 43	1 44	7 22	1 24	23 57	1 50	18 15	1 10	2 53	2 4	3 49	0 43	13 27	1 50
S 22	0 41	16 42	4 53	3 56	1 41	6 54	1 25	24 3	1 50	18 15	1 10	2 50	2 4	3 48	0 43	13 27	1 50
M23	0 17	13 48	5 8	3 10	1 38	6 25	1 25	24 8	1 50	18 14	1 10	2 47	2 4	3 46	0 43	13 26	1 51
T 24	0s 6	10 18	5 7	2 23	1 34	5 57	1 26	24 14	1 50	18 14	1 10	2 44	2 4	3 45	0 43	13 26	1 51
W25	0 30	6 24	4 52	1 36	1 30	5 28	1 26	24 19	1 50	18 13	1 10	2 41	2 4	3 43	0 43	13 25	1 51
T 26	0 53	2 17	4 22	0 48	1 26	4 58	1 26	24 24	1 50	18 13	1 10	2 39	2 5	3 42	0 43	13 25	1 51
F 27	1 17	1s52	3 41	0 1	1 21	4 29	1 27	24 28	1 50	18 12	1 10	2 36	2 5	3 40	0 43	13 25	1 51
S 28	1 40	5 54	2 51	0s46	1 15	4 0	1 27	24 33	1 50	18 11	1 11	2 33	2 5	3 39	0 43	13 24	1 51
S 29	2 4	9 39	1 53	1 32	1 10	3 30	1 27	24 37	1 50	18 11	1 11	2 30	2 5	3 37	0 43	13 24	1 51
M30	2s27	13s 0	0s51	2s19	1n 4	3n 1	1n27	24s41	1s50	18n10	1s11	2n27	2n 5	3n36	0n43	13n23	1s51

Julian Day Number = 2347693.5, Delta T = 10.72 sec
 Ecliptic obliquity = 23°28'28", Nutation = 0°00'13", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 20°46'16", Lahiri = 19°53'16"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1715
geocentric

OCTOBER 1715

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 36 19	7♌ 9'09	13♌50	10♌ 2	27♍ 2	18♌ 0	26°R 5	28♍46	22♍40	10°R58	9♍11	11°D22	12♌48	7♌13	25°R45	T 1
W 2	0 40 15	8° 8'19	25°36	11°45	28°17	18°42	26♌ 1	28°53	22°44	10♌56	9°13	11♌23	12°45	7°20	25°R43	W 2
T 3	0 44 12	9° 7'31	7♌25	13°27	29°31	19°24	25°58	29° 1	22°48	10°55	9°15	11°25	12°42	7°26	25°42	T 3
F 4	0 48 9	10° 6'44	19°22	15° 9	0♌46	20° 6	25°55	29° 8	22°51	10°53	9°17	11°27	12°39	7°33	25°40	F 4
S 5	0 52 5	11° 5'59	1♌31	16°49	2° 1	20°49	25°51	29°15	22°55	10°52	9°19	11°28	12°36	7°39	25°38	S 5
S 6	0 56 2	12° 5'16	13°57	18°29	3°16	21°31	25°47	29°23	22°59	10°51	9°21	11°R28	12°32	7°46	25°36	S 6
M 7	0 59 58	13° 4'35	26°44	20° 8	4°31	22°14	25°43	29°30	23° 2	10°49	9°22	11°28	12°29	7°53	25°34	M 7
T 8	1 3 55	14° 3'56	9♌57	21°46	5°46	22°57	25°39	29°37	23° 6	10°48	9°24	11°26	12°26	7°59	25°33	T 8
W 9	1 7 51	15° 3'18	23°38	23°24	7° 1	23°40	25°34	29°45	23°10	10°46	9°26	11°23	12°23	8° 6	25°31	W 9
T 10	1 11 48	16° 2'42	7♌48	25° 0	8°16	24°22	25°30	29°52	23°13	10°45	9°28	11°19	12°20	8°13	25°29	T 10
F 11	1 15 44	17° 2'08	22°22	26°37	9°31	25° 5	25°25	29°59	23°17	10°43	9°29	11°15	12°16	8°19	25°28	F 11
S 12	1 19 41	18° 1'36	7♍17	28°12	10°46	25°49	25°20	0♌ 6	23°20	10°42	9°31	11°12	12°13	8°26	25°26	S 12
S 13	1 23 37	19° 1'06	22°25	29°47	12° 1	26°32	25°15	0°14	23°24	10°40	9°33	11°10	12°10	8°33	25°25	S 13
M14	1 27 34	20° 0'38	7♌35	1♌21	13°16	27°15	25° 9	0°21	23°27	10°39	9°35	11°D10	12° 7	8°39	25°23	M14
T 15	1 31 31	21° 0'12	22°38	2°54	14°31	27°59	25° 4	0°28	23°31	10°37	9°36	11°10	12° 4	8°46	25°22	T 15
W16	1 35 27	21°59'48	7♌27	4°27	15°47	28°42	24°58	0°35	23°34	10°36	9°38	11°11	12° 1	8°53	25°21	W16
T 17	1 39 24	22°59'27	21°56	5°59	17° 2	29°26	24°52	0°42	23°38	10°34	9°40	11°12	11°57	8°59	25°20	T 17
F 18	1 43 20	23°59'08	6♌ 1	7°31	18°17	0♌ 9	24°46	0°49	23°41	10°32	9°41	11°13	11°54	9° 6	25°18	F 18
S 19	1 47 17	24°58'51	19°43	9° 2	19°32	0°53	24°40	0°56	23°44	10°31	9°43	11°R14	11°51	9°13	25°17	S 19
S 20	1 51 13	25°58'37	3♌ 0	10°32	20°47	1°37	24°34	1° 3	23°48	10°29	9°44	11°14	11°48	9°19	25°16	S 20
M21	1 55 10	26°58'24	15°57	12° 2	22° 2	2°21	24°28	1°10	23°51	10°28	9°46	11°13	11°45	9°26	25°15	M21
T 22	1 59 6	27°58'14	28°36	13°31	23°18	3° 5	24°21	1°17	23°54	10°26	9°48	11°12	11°41	9°32	25°14	T 22
W23	2 3 3	28°58'06	11♍ 0	15° 0	24°33	3°49	24°15	1°24	23°58	10°24	9°49	11°10	11°38	9°39	25°14	W23
T 24	2 7 0	29°58'01	23°11	16°28	25°48	4°33	24° 8	1°31	24° 1	10°23	9°51	11° 8	11°35	9°46	25°13	T 24
F 25	2 10 56	0♌57'57	5♌13	17°56	27° 3	5°17	24° 1	1°38	24° 4	10°21	9°52	11° 7	11°32	9°52	25°12	F 25
S 26	2 14 53	1°57'55	17° 8	19°23	28°19	6° 2	23°54	1°45	24° 7	10°19	9°53	11° 6	11°29	9°59	25°11	S 26
S 27	2 18 49	2°57'56	28°58	20°49	29°34	6°46	23°47	1°51	24°11	10°18	9°55	11° 5	11°26	10° 6	25°11	S 27
M28	2 22 46	3°57'58	10♌45	22°14	0♌49	7°30	23°40	1°58	24°14	10°16	9°56	11°D 5	11°22	10°12	25°10	M28
T 29	2 26 42	4°58'03	22°32	23°39	2° 4	8°15	23°32	2° 5	24°17	10°14	9°58	11° 5	11°19	10°19	25°10	T 29
W30	2 30 39	5°58'09	4♌21	25° 3	3°20	9° 0	23°25	2°11	24°20	10°13	9°59	11° 5	11°16	10°26	25° 9	W30
T 31	2 34 35	6♌58'16	16♌14	26♌26	4♌35	9♌44	23♌17	2♌18	24♍23	10♌11	10♍ 0	11♌ 6	11♌13	10♌32	25°R 9	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
T 1	2s51	15s48	0n13	3s 5	0n59	2n31	1n27	24s45	1s49	18n 9	1s11	2n24	2n 5	3n35	0n43	13n23
W 2	3 14	17 56	1 17	3 51	0 53	2 1	1 27	24 48	1 49	18 8	1 11	2 21	2 5	3 33	0 43	13 22
T 3	3 37	19 19	2 18	4 37	0 46	1 31	1 27	24 52	1 49	18 7	1 11	2 18	2 5	3 32	0 43	13 22
F 4	4 1	19 50	3 14	5 22	0 40	1 1	1 27	24 55	1 49	18 7	1 11	2 15	2 5	3 30	0 43	13 21
S 5	4 24	19 27	4 1	6 6	0 33	0 31	1 26	24 58	1 49	18 6	1 11	2 12	2 5	3 29	0 43	13 21
S 6	4 47	18 7	4 39	6 50	0 27	0 1	1 26	25 1	1 49	18 5	1 11	2 10	2 5	3 27	0 43	13 21
M 7	5 10	15 52	5 4	7 34	0 20	0s29	1 26	25 3	1 48	18 4	1 11	2 7	2 5	3 26	0 43	13 20
T 8	5 33	12 44	5 14	8 17	0 13	0 59	1 25	25 5	1 48	18 2	1 11	2 4	2 5	3 25	0 43	13 20
W 9	5 56	8 49	5 7	9 0	0 7	1 30	1 25	25 7	1 48	18 1	1 12	2 1	2 5	3 23	0 44	13 19
T 10	6 19	4 18	4 42	9 42	0s 0	2 0	1 24	25 9	1 48	18 0	1 12	1 58	2 5	3 22	0 44	13 19
F 11	6 42	0n36	3 58	10 23	0 7	2 30	1 23	25 11	1 48	17 59	1 12	1 56	2 6	3 20	0 44	13 18
S 12	7 5	5 36	2 56	11 4	0 14	3 0	1 23	25 12	1 47	17 58	1 12	1 53	2 6	3 19	0 44	13 18
S 13	7 28	10 18	1 42	11 44	0 21	3 30	1 22	25 13	1 47	17 56	1 12	1 50	2 6	3 18	0 44	13 17
M14	7 50	14 22	0 20	12 24	0 28	4 0	1 21	25 14	1 47	17 55	1 12	1 47	2 6	3 16	0 44	13 17
T 15	8 13	17 26	1s 3	13 2	0 35	4 30	1 20	25 14	1 47	17 54	1 12	1 44	2 6	3 15	0 44	13 16
W16	8 35	19 17	2 20	13 40	0 41	5 0	1 19	25 14	1 46	17 52	1 12	1 42	2 6	3 13	0 44	13 16
T 17	8 57	19 47	3 27	14 18	0 48	5 30	1 18	25 14	1 46	17 51	1 12	1 39	2 6	3 12	0 44	13 15
F 18	9 19	19 1	4 19	14 54	0 55	5 59	1 17	25 14	1 46	17 49	1 12	1 36	2 6	3 11	0 44	13 15
S 19	9 41	17 10	4 55	15 30	1 2	6 29	1 16	25 14	1 45	17 48	1 12	1 34	2 6	3 9	0 44	13 14
S 20	10 3	14 25	5 14	16 5	1 8	6 58	1 15	25 13	1 45	17 46	1 12	1 31	2 7	3 8	0 44	13 14
M21	10 25	11 3	5 16	16 39	1 15	7 27	1 14	25 12	1 45	17 45	1 12	1 28	2 7	3 7	0 44	13 13
T 22	10 46	7 15	5 2	17 13	1 21	7 57	1 12	25 11	1 44	17 43	1 12	1 26	2 7	3 6	0 44	13 13
W23	11 7	3 12	4 35	17 45	1 27	8 25	1 11	25 9	1 44	17 42	1 12	1 23	2 7	3 4	0 44	13 12
T 24	11 29	0s54	3 56	18 17	1 33	8 54	1 10	25 7	1 44	17 40	1 12	1 20	2 7	3 3	0 44	13 11
F 25	11 50	4 56	3 6	18 47	1 39	9 23	1 8	25 5	1 43	17 38	1 12	1 18	2 7	3 2	0 44	13 11
S 26	12 10	8 44	2 9	19 17	1 45	9 51	1 7	25 3	1 43	17 37	1 12	1 15	2 7	3 0	0 44	13 10
S 27	12 31	12 10	1 7	19 46	1 51	10 19	1 5	25 1	1 43	17 35	1 12	1 13	2 7	2 59	0 44	13 10
M28	12 52	15 6	0 2	20 13	1 56	10 47	1 4	24 58	1 42	17 33	1 12	1 10	2 8	2 58	0 44	13 9
T 29	13 12	17 25	1n 3	20 40	2 1	11 15	1 2	24 55	1 42	17 31	1 12	1 8	2 8	2 57	0 44	13 9
W30	13 32	18 59	2 6	21 6	2 6	11 42	1 0	24 51	1 41	17 29	1 12	1 5	2 8	2 56	0 44	13 8
T 31	13s52	19s43	3n 4	21s30	2s11	12s 9	0n58	24s48	1s41	17n28	1s12	1n 3	2n 8	2n54	0n44	13n 8

Julian Day Number = 2347723.5, Delta T = 10.71 sec
Ecliptic obliquity = 23°28'28", Nutation = 0°00'11", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°46'20", Lahiri = 19°53'20"Greg. Calendar

ASTRODIENST EPHEMERIS for the year 1715
geocentric

NOVEMBER 1715

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 38 32	7♌58'26	28♊15	27♌49	5♌50	10♌29	23°R10	2♌24	24♌26	10°R 9	10♌2	11♌6	11♌10	10♌39	25°R 9	F 1
S 2	2 42 29	8°58'37	10♌26	29°10	7° 6	11°14	23♌2	2°31	24°29	10♌8	10° 3	11° 7	11° 7	10°46	25°R 8	S 2
S 3	2 46 25	9°58'50	22°52	0♌30	8°21	11°59	22°54	2°37	24°32	10° 6	10° 4	11° 7	11° 3	10°52	25° 8	S 3
M 4	2 50 22	10°59'04	5♌36	1°50	9°36	12°44	22°46	2°44	24°35	10° 4	10° 5	11° 7	11° 0	10°59	25° 8	M 4
T 5	2 54 18	11°59'20	18°42	3° 8	10°52	13°29	22°38	2°50	24°38	10° 2	10° 7	11° 7	10°57	11° 5	25°D 8	T 5
W 6	2 58 15	12°59'37	2♌13	4°24	12° 7	14°14	22°31	2°56	24°40	10° 1	10° 8	11° 7	10°54	11°12	25° 8	W 6
T 7	3 2 11	13°59'56	16° 9	5°40	13°22	14°59	22°22	3° 3	24°43	9°59	10° 9	11° 7	10°51	11°19	25° 8	T 7
F 8	3 6 8	15° 0'15	0♌32	6°53	14°38	15°44	22°14	3° 9	24°46	9°57	10°10	11° 7	10°47	11°25	25° 8	F 8
S 9	3 10 4	16° 0'37	15°18	8° 4	15°53	16°29	22° 6	3°15	24°49	9°56	10°11	11° 8	10°44	11°32	25° 8	S 9
S 10	3 14 1	17° 1'00	0♌22	9°14	17° 8	17°15	21°58	3°21	24°51	9°54	10°12	11° 8	10°41	11°39	25° 9	S 10
M 11	3 17 58	18° 1'24	15°35	10°21	18°24	18° 0	21°50	3°27	24°54	9°52	10°13	11°R 8	10°38	11°45	25° 9	M 11
T 12	3 21 54	19° 1'51	0♌48	11°25	19°39	18°45	21°42	3°33	24°57	9°51	10°14	11° 8	10°35	11°52	25° 9	T 12
W 13	3 25 51	20° 2'19	15°51	12°26	20°55	19°31	21°34	3°39	24°59	9°49	10°15	11° 7	10°32	11°59	25°10	W 13
T 14	3 29 47	21° 2'48	0♌36	13°24	22°10	20°16	21°26	3°45	25° 2	9°47	10°16	11° 6	10°28	12° 5	25°10	T 14
F 15	3 33 44	22° 3'20	14°56	14°18	23°25	21° 2	21°17	3°51	25° 4	9°46	10°17	11° 5	10°25	12°12	25°11	F 15
S 16	3 37 40	23° 3'53	28°50	15° 7	24°41	21°47	21° 9	3°56	25° 7	9°44	10°18	11° 3	10°22	12°19	25°11	S 16
S 17	3 41 37	24° 4'28	12♌15	15°52	25°56	22°33	21° 1	4° 2	25° 9	9°42	10°19	11° 2	10°19	12°25	25°12	S 17
M 18	3 45 33	25° 5'05	25°14	16°30	27°12	23°18	20°53	4° 8	25°11	9°41	10°20	11°D 2	10°16	12°32	25°13	M 18
T 19	3 49 30	26° 5'43	7♌51	17° 3	28°27	24° 4	20°45	4°13	25°14	9°39	10°20	11° 3	10°13	12°38	25°14	T 19
W 20	3 53 27	27° 6'23	20°10	17°28	29°42	24°50	20°37	4°19	25°16	9°38	10°21	11° 4	10° 9	12°45	25°15	W 20
T 21	3 57 23	28° 7'05	2♌14	17°46	0♌58	25°36	20°29	4°24	25°18	9°36	10°22	11° 5	10° 6	12°52	25°15	T 21
F 22	4 1 20	29° 7'48	14° 9	17°R54	2°13	26°22	20°21	4°29	25°20	9°34	10°23	11° 7	10° 3	12°58	25°16	F 22
S 23	4 5 16	0♌8'33	25°57	17°54	3°29	27° 7	20°13	4°35	25°22	9°33	10°23	11° 8	10° 0	13° 5	25°18	S 23
S 24	4 9 13	1° 9'19	7♌44	17°43	4°44	27°53	20° 5	4°40	25°24	9°31	10°24	11°R 9	9°57	13°12	25°19	S 24
M 25	4 13 9	2°10'07	19°31	17°22	5°59	28°39	19°57	4°45	25°27	9°30	10°24	11° 8	9°53	13°18	25°20	M 25
T 26	4 17 6	3°10'56	1♌21	16°50	7°15	29°25	19°49	4°50	25°29	9°28	10°25	11° 7	9°50	13°25	25°21	T 26
W 27	4 21 2	4°11'46	13°17	16° 7	8°30	0♌11	19°41	4°55	25°30	9°27	10°26	11° 4	9°47	13°32	25°22	W 27
T 28	4 24 59	5°12'38	25°20	15°13	9°46	0°57	19°34	5° 0	25°32	9°25	10°26	11° 1	9°44	13°38	25°24	T 28
F 29	4 28 56	6°13'30	7♌31	14° 9	11° 1	1°43	19°26	5° 5	25°34	9°24	10°27	10°56	9°41	13°45	25°25	F 29
S 30	4 32 52	7♌14'24	19♌53	12♌58	12♌17	2♌29	19♌19	5♌10	25♌36	9♌22	10♌27	10♌52	9♌38	13♌52	25♌27	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	14s11	19s34	3n54	21s54	2s15	12s36	0n57	24s44	1s41	17n26	1s12	1n 0	2n 8	2n53	0n44	13n 7	1s51	20n15	13n28	15s11	15s12	15s 5	7s22	6n 8			
S 2	14 31	18 31	4 34	22 16	2 20	13 2	0 55	24 40	1 40	17 24	1 12	0 58	2 8	2 52	0 44	13 7	1 51	20 15	13 29	15 11	15 11	15 6	7 23	6 8			
S 3	14 50	16 34	5 2	22 37	2 23	13 28	0 53	24 35	1 40	17 22	1 12	0 55	2 8	2 51	0 44	13 6	1 51	20 14	13 29	15 11	15 10	15 7	7 23	6 7			
M 4	15 9	13 46	5 17	22 57	2 27	13 54	0 51	24 31	1 39	17 20	1 12	0 53	2 9	2 50	0 44	13 6	1 51	20 14	13 30	15 11	15 9	15 9	7 24	6 7			
T 5	15 27	10 14	5 16	23 16	2 30	14 20	0 49	24 26	1 39	17 18	1 12	0 50	2 9	2 49	0 44	13 5	1 51	20 14	13 30	15 11	15 8	15 10	7 24	6 7			
W 6	15 46	6 5	4 57	23 34	2 33	14 45	0 47	24 21	1 38	17 16	1 12	0 48	2 9	2 48	0 44	13 5	1 51	20 14	13 30	15 11	15 7	15 11	7 24	6 6			
T 7	16 4	1 28	4 21	23 50	2 35	15 10	0 45	24 15	1 38	17 14	1 12	0 46	2 9	2 47	0 44	13 4	1 51	20 14	13 31	15 11	15 6	15 12	7 25	6 6			
F 8	16 22	3n23	3 27	24 4	2 37	15 34	0 43	24 10	1 38	17 12	1 12	0 43	2 9	2 45	0 44	13 4	1 51	20 14	13 31	15 11	15 5	15 14	7 25	6 5			
S 9	16 39	8 10	2 19	24 18	2 39	15 58	0 41	24 4	1 37	17 10	1 12	0 41	2 10	2 44	0 44	13 3	1 51	20 14	13 32	15 11	15 4	15 15	7 26	6 5			
S 10	16 57	12 33	1 0	24 30	2 39	16 21	0 39	23 57	1 37	17 8	1 12	0 39	2 10	2 43	0 44	13 3	1 51	20 14	13 32	15 11	15 3	15 16	7 26	6 4			
M11	17 14	16 8	0s25	24 40	2 40	16 44	0 37	23 51	1 36	17 6	1 11	0 37	2 10	2 42	0 44	13 2	1 51	20 14	13 33	15 11	15 2	15 17	7 26	6 4			
T 12	17 30	18 36	1 47	24 49	2 39	17 7	0 35	23 44	1 36	17 4	1 11	0 34	2 10	2 41	0 44	13 1	1 51	20 14	13 33	15 11	15 1	15 18	7 26	6 4			
W13	17 47	19 43	3 1	24 56	2 38	17 29	0 32	23 37	1 35	17 2	1 11	0 32	2 10	2 40	0 44	13 1	1 51	20 14	13 34	15 11	15 0	15 20	7 27	6 3			
T 14	18 3	19 27	4 2	25 1	2 36	17 51	0 30	23 30	1 35	17 0	1 11	0 30	2 10	2 39	0 44	13 0	1 51	20 14	13 34	15 11	14 59	15 21	7 27	6 3			
F 15	18 19	17 55	4 45	25 5	2 33	18 12	0 28	23 22	1 34	16 58	1 11	0 28	2 11	2 38	0 44	13 0	1 51	20 14	13 34	15 10	14 58	15 22	7 27	6 2			
S 16	18 34	15 22	5 10	25 7	2 30	18 33	0 26	23 15	1 33	16 56	1 11	0 26	2 11	2 38	0 44	12 59	1 51	20 14	13 35	15 10	14 57	15 23	7 27	6 2			
S 17	18 49	12 4	5 17	25 8	2 25	18 53	0 23	23 7	1 33	16 54	1 11	0 24	2 11	2 37	0 44	12 59	1 51	20 14	13 35	15 10	14 56	15 24	7 28	6 1			
M18	19 4	8 17	5 8	25 6	2 20	19 13	0 21	22 59	1 32	16 52	1 11	0 22	2 11	2 36	0 44	12 58	1 51	20 15	13 36	15 10	14 55	15 26	7 28	6 1			
T 19	19 18	4 15	4 43	25 3	2 13	19 32	0 19	22 50	1 32	16 50	1 11	0 20	2 11	2 35	0 45	12 58	1 51	20 15	13 36	15 10	14 54	15 27	7 28	6 1			
W20	19 32	0 7	4 7	24 57	2 5	19 51	0 16	22 41	1 31	16 48	1 10	0 18	2 12	2 34	0 45	12 58	1 51	20 15	13 37	15 10	14 53	15 28	7 28	6 0			
T 21	19 46	3s56	3 19	24 49	1 55	20 9	0 14	22 32	1 31	16 46	1 10	0 16	2 12	2 33	0 45	12 57	1 51	20 15	13 37	15 10	14 52	15 29	7 28	6 0			
F 22	20 0	7 48	2 24	24 39	1 44	20 27	0 12	22 23	1 30	16 44	1 10	0 14	2 12	2 32	0 45	12 57	1 51	20 15	13 38	15 11	14 51	15 30	7 28	5 59			
S 23	20 13	11 20	1 23	24 27	1 32	20 44	0 9	22 14	1 30	16 42	1 10	0 12	2 12	2 31	0 45	12 56	1 51	20 15	13 38	15 11	14 50	15 31	7 28	5 59			
S 24	20 25	14 24	0 19	24 12	1 18	21 0	0 7	22 4	1 29	16 40	1 10	0 10	2 12	2 31	0 45	12 56	1 51	20 15	13 39	15 12	14 49	15 33	7 28	5 58			
M25	20 38	16 54	0n46	23 55	1 3	21 16	0 4	21 54	1 28	16 38	1 10	0 8	2 13	2 30	0 45	12 55	1 51	20 16	13 39	15 12	14 48	15 34	7 28	5 58			
T 26	20 49	18 41	1 49	23 35	0 46	21 31	0 2	21 44	1 28	16 36	1 9	0 7	2 13	2 29	0 45	12 55	1 51	20 16	13 40	15 11	14 47	15 35	7 28	5 58			
W27	21 1	19 39	2 48	23 13	0 28	21 46	0s 0	21 33	1 27	16 34	1 9	0 5	2 13	2 28	0 45	12 54	1 51	20 16	13 40	15 10	14 46	15 36	7 28	5 57			
T 28	21 12	19 44	3 40	22 48	0 9	22 0	0 3	21 23	1 27	16 32	1 9	0 3	2 13	2 28	0 45	12 54	1 51	20 16	13 41	15 9	14 45	15 37	7 28	5 57			
F 29	21 23	18 54	4 22	22 21	0n11	22 13	0 5	21 12	1 26	16 31	1 9	0 1	2 14	2 27	0 45	12 53	1 51	20 17	13 41	15 8	14 44	15 38	7 28	5 56			
S 30	21s33	17s10	4n53	21s52	0n32	22s25	0s 8	21s 1	1s25	16n29	1s 9	0s 0	2n14	2n26	0n45	12n53	1s51	20n17	13n42	15s 6	14s43	15s40	7s28	5n56			

ASTRODIENST EPHEMERIS for the year 1715
geocentric

DECEMBER 1715

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
S 1	4 36 49	8♌15'19	2♋26	11°R40	13♊32	3♌16	19°R12	5♎14	25♏38	9°R21	10♐27	10°R48	9♑34	13♒58	25♓28	S 1
M 2	4 40 45	9°16'14	15°15	10♊18	14°47	4° 2	19♋4	5°19	25°39	9♌19	10°28	10♌44	9°31	14° 5	25°30	M 2
T 3	4 44 42	10°17'10	28°19	8°55	16° 3	4°48	18°57	5°23	25°41	9°18	10°28	10°42	9°28	14°12	25°31	T 3
W 4	4 48 38	11°18'07	11♋42	7°34	17°18	5°34	18°50	5°28	25°43	9°17	10°29	10°D42	9°25	14°18	25°33	W 4
T 5	4 52 35	12°19'04	25°26	6°17	18°34	6°20	18°43	5°32	25°44	9°15	10°29	10°42	9°22	14°25	25°35	T 5
F 6	4 56 31	13°20'02	9°Y32	5° 7	19°49	7° 7	18°36	5°36	25°46	9°14	10°29	10°44	9°19	14°31	25°37	F 6
S 7	5 0 28	14°21'00	23°58	4° 5	21° 5	7°53	18°30	5°40	25°47	9°13	10°29	10°45	9°15	14°38	25°39	S 7
S 8	5 4 25	15°22'00	8♌42	3°14	22°20	8°39	18°23	5°45	25°48	9°11	10°30	10°R46	9°12	14°45	25°41	S 8
M 9	5 8 21	16°23'00	23°40	2°34	23°35	9°26	18°17	5°48	25°50	9°10	10°30	10°45	9° 9	14°51	25°43	M 9
T 10	5 12 18	17°24'00	8♌43	2° 5	24°51	10°12	18°11	5°52	25°51	9° 9	10°30	10°43	9° 6	14°58	25°45	T 10
W11	5 16 14	18°25'02	23°43	1°47	26° 6	10°58	18° 5	5°56	25°52	9° 8	10°30	10°39	9° 3	15° 5	25°47	W11
T 12	5 20 11	19°26'04	8♌31	1°D39	27°22	11°45	17°59	6° 0	25°53	9° 6	10°30	10°33	8°59	15°11	25°49	T 12
F 13	5 24 7	20°27'07	22°59	1°42	28°37	12°31	17°53	6° 4	25°54	9° 5	10°R30	10°26	8°56	15°18	25°51	F 13
S 14	5 28 4	21°28'10	7♎2	1°54	29°52	13°17	17°47	6° 7	25°55	9° 4	10°30	10°20	8°53	15°25	25°53	S 14
S 15	5 32 1	22°29'15	20°36	2°15	1♌8	14° 4	17°42	6°11	25°56	9° 3	10°30	10°15	8°50	15°31	25°56	S 15
M16	5 35 57	23°30'20	3♏43	2°44	2°23	14°50	17°37	6°14	25°57	9° 2	10°30	10°11	8°47	15°38	25°58	M16
T 17	5 39 54	24°31'26	16°24	3°20	3°39	15°36	17°32	6°17	25°58	9° 1	10°30	10° 8	8°44	15°45	26° 1	T 17
W18	5 43 50	25°32'33	28°44	4° 2	4°54	16°23	17°27	6°20	25°59	9° 0	10°30	10°D 8	8°40	15°51	26° 3	W18
T 19	5 47 47	26°33'41	10♌48	4°50	6° 9	17° 9	17°22	6°23	26° 0	8°59	10°29	10° 9	8°37	15°58	26° 6	T 19
F 20	5 51 43	27°34'49	22°40	5°42	7°25	17°56	17°17	6°26	26° 1	8°58	10°29	10°10	8°34	16° 4	26° 8	F 20
S 21	5 55 40	28°35'58	4♎27	6°39	8°40	18°42	17°13	6°29	26° 1	8°57	10°29	10°R12	8°31	16°11	26°11	S 21
S 22	5 59 36	29°37'07	16°13	7°39	9°55	19°29	17° 9	6°32	26° 2	8°56	10°29	10°12	8°28	16°18	26°13	S 22
M23	6 3 33	0♌38'17	28° 3	8°43	11°11	20°15	17° 5	6°35	26° 2	8°55	10°29	10°10	8°25	16°24	26°16	M23
T 24	6 7 29	1°39'28	9♊58	9°50	12°26	21° 2	17° 1	6°37	26° 3	8°54	10°28	10° 5	8°21	16°31	26°19	T 24
W25	6 11 26	2°40'39	22° 3	11° 0	13°42	21°48	16°57	6°40	26° 3	8°53	10°28	9°59	8°18	16°38	26°22	W25
T 26	6 15 23	3°41'50	4♌19	12°12	14°57	22°34	16°54	6°42	26° 4	8°52	10°27	9°50	8°15	16°44	26°24	T 26
F 27	6 19 19	4°43'01	16°46	13°26	16°12	23°21	16°50	6°44	26° 4	8°51	10°27	9°39	8°12	16°51	26°27	F 27
S 28	6 23 16	5°44'13	29°26	14°42	17°28	24° 7	16°47	6°47	26° 4	8°51	10°27	9°28	8° 9	16°58	26°30	S 28
S 29	6 27 12	6°45'24	12♌17	15°59	18°43	24°54	16°44	6°49	26° 4	8°50	10°26	9°18	8° 5	17° 4	26°33	S 29
M30	6 31 9	7°46'35	25°20	17°18	19°58	25°40	16°42	6°51	26° 5	8°49	10°26	9° 9	8° 2	17°11	26°36	M30
T 31	6 35 5	8♌47'46	8♊35	18♊38	21♌14	26♌27	16♎39	6♎52	26♏5	8♏49	10♐25	9♑2	7♒59	17♓18	26♓39	T 31

Day	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	21s43	14s36	5n10	21s21	0n52	22s37	0s10	20s50	1s25	16n27	1s 8	0s 2	2n14	2n26
M 2	21 52	11 18	5 13	20 50	1 12	22 49	0 12	20 38	1 24	16 25	1 8	0 4	2 14	2 25
T 3	22 1	7 24	4 59	20 20	1 31	22 59	0 15	20 26	1 23	16 23	1 8	0 5	2 15	2 24
W 4	22 10	3 2	4 29	19 50	1 48	23 9	0 17	20 14	1 23	16 22	1 8	0 7	2 15	2 24
T 5	22 18	1n36	3 40	19 22	2 4	23 18	0 19	20 2	1 22	16 20	1 8	0 8	2 15	2 23
F 6	22 26	6 16	2 43	18 56	2 17	23 27	0 22	19 50	1 21	16 18	1 7	0 10	2 15	2 23
S 7	22 33	10 43	1 31	18 34	2 28	23 35	0 24	19 37	1 21	16 17	1 7	0 11	2 16	2 22
S 8	22 40	14 36	0 11	18 16	2 37	23 42	0 27	19 25	1 20	16 15	1 7	0 12	2 16	2 22
M 9	22 47	17 35	1s10	18 2	2 44	23 48	0 29	19 12	1 19	16 14	1 7	0 14	2 16	2 21
T 10	22 53	19 22	2 27	17 52	2 48	23 54	0 31	18 59	1 19	16 12	1 7	0 15	2 16	2 21
W11	22 58	19 47	3 33	17 46	2 51	23 58	0 33	18 45	1 18	16 11	1 6	0 16	2 17	2 20
T 12	23 3	18 49	4 24	17 44	2 51	24 3	0 36	18 32	1 17	16 9	1 6	0 18	2 17	2 20
F 13	23 8	16 38	4 56	17 45	2 50	24 6	0 38	18 18	1 17	16 8	1 6	0 19	2 17	2 19
S 14	23 12	13 32	5 10	17 49	2 48	24 9	0 40	18 4	1 16	16 7	1 6	0 20	2 17	2 19
S 15	23 16	9 49	5 5	17 57	2 45	24 10	0 42	17 50	1 15	16 5	1 5	0 21	2 18	2 19
M16	23 19	5 44	4 45	18 7	2 41	24 12	0 44	17 36	1 15	16 4	1 5	0 22	2 18	2 18
T 17	23 22	1 31	4 11	18 18	2 35	24 12	0 47	17 21	1 14	16 3	1 5	0 23	2 18	2 18
W18	23 24	2s38	3 26	18 32	2 30	24 12	0 49	17 7	1 13	16 2	1 5	0 24	2 18	2 18
T 19	23 26	6 37	2 33	18 47	2 23	24 11	0 51	16 52	1 12	16 1	1 4	0 25	2 19	2 18
F 20	23 27	10 17	1 34	19 3	2 16	24 9	0 53	16 37	1 12	16 0	1 4	0 26	2 19	2 17
S 21	23 28	13 31	0 31	19 20	2 9	24 6	0 55	16 22	1 11	15 59	1 4	0 27	2 19	2 17
S 22	23 28	16 12	0n33	19 37	2 1	24 3	0 57	16 7	1 10	15 58	1 3	0 28	2 19	2 17
M23	23 28	18 13	1 35	19 55	1 53	23 59	0 59	15 51	1 10	15 57	1 3	0 29	2 20	2 17
T 24	23 28	19 27	2 33	20 13	1 45	23 54	1 0	15 36	1 9	15 56	1 3	0 29	2 20	2 17
W25	23 27	19 49	3 26	20 31	1 37	23 48	1 2	15 20	1 8	15 55	1 3	0 30	2 20	2 16
T 26	23 25	19 15	4 9	20 49	1 29	23 42	1 4	15 4	1 7	15 55	1 2	0 31	2 21	2 16
F 27	23 23	17 46	4 41	21 7	1 21	23 35	1 6	14 48	1 7	15 54	1 2	0 31	2 21	2 16
S 28	23 21	15 24	5 0	21 24	1 12	23 27	1 8	14 32	1 6	15 53	1 2	0 32	2 21	2 16
S 29	23 18	12 16	5 5	21 41	1 4	23 18	1 9	14 16	1 5	15 53	1 2	0 33	2 21	2 16
M30	23 15	8 29	4 53	21 57	0 56	23 9	1 11	13 59	1 4	15 52	1 1	0 33	2 22	2 16
T 31	23s11	4s15	4n26	22s12	0n47	22s59	1s12	13s43	1s 4	15n52	1s 1	0s34	2n22	2n16

Julian Day Number = 2347784.5, Delta T = 10.70 sec
Ecliptic obliquity = 23°28'27", Nutation = 0°00'10", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 20°46'28", Lahiri = 19°53'29"Greg. Calendar