



Astrodienst Ephemeris Tables for the year 1816

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 1816

geocentric

JANUARY 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 38 8	9°31'39	25°14	3°5	22°53	27°39	5°48	10°43	9°3	20°22	21°1	24°R44	23°II50	6°19	10°1	M 1
T 2	6 42 5	10°32'51	7°25	4°40	23°57	28°4	5°56	10°49	9°7	20°25	21°2	24°II42	23°47	6°26	10°3	T 2
W 3	6 46 1	11°34'02	19°27	6°15	25°1	28°29	6°5	10°56	9°10	20°27	21°2	24°39	23°44	6°33	10°5	W 3
T 4	6 49 58	12°35'13	1°22	7°50	26°6	28°54	6°13	11°3	9°13	20°29	21°3	24°37	23°40	6°39	10°8	T 4
F 5	6 53 54	13°36'23	13°13	9°26	27°11	29°19	6°22	11°9	9°16	20°31	21°4	24°34	23°37	6°46	10°10	F 5
S 6	6 57 51	14°37'34	25°5	11°2	28°16	29°45	6°30	11°16	9°19	20°33	21°5	24°32	23°34	6°53	10°13	S 6
S 7	7 1 47	15°38'43	7°0	12°38	29°22	0°11	6°38	11°23	9°23	20°35	21°5	24°30	23°31	6°59	10°15	S 7
M 8	7 5 44	16°39'52	19°5	14°15	0°28	0°38	6°46	11°29	9°26	20°37	21°6	24°D30	23°28	7°6	10°18	M 8
T 9	7 9 41	17°41'01	18°22	15°52	1°34	1°4	6°54	11°36	9°29	20°39	21°7	24°31	23°24	7°13	10°20	T 9
W10	7 13 37	18°42'09	13°58	17°30	2°40	1°31	7°2	11°43	9°32	20°41	21°8	24°32	23°21	7°20	10°23	W10
T 11	7 17 34	19°43'17	26°56	19°8	3°46	1°58	7°9	11°50	9°35	20°43	21°9	24°34	23°18	7°26	10°26	T 11
F 12	7 21 30	20°44'24	10°II18	20°47	4°53	2°26	7°17	11°57	9°38	20°45	21°9	24°35	23°15	7°33	10°28	F 12
S 13	7 25 27	21°45'30	24°7	22°26	6°0	2°53	7°24	12°4	9°41	20°47	21°10	24°R36	23°12	7°40	10°31	S 13
S 14	7 29 23	22°46'36	8°22	24°6	7°7	3°21	7°31	12°10	9°44	20°49	21°11	24°35	23°9	7°46	10°34	S 14
M15	7 33 20	23°47'42	22°57	25°46	8°14	3°49	7°38	12°17	9°47	20°51	21°12	24°33	23°5	7°53	10°37	M15
T 16	7 37 17	24°48'47	7°248	27°27	9°22	4°18	7°45	12°24	9°50	20°53	21°13	24°30	23°2	8°0	10°40	T 16
W17	7 41 13	25°49'51	22°46	29°8	10°29	4°46	7°52	12°31	9°53	20°55	21°14	24°25	22°59	8°7	10°43	W17
T 18	7 45 10	26°50'55	7°242	0°50	11°37	5°15	7°59	12°38	9°55	20°57	21°15	24°20	22°56	8°13	10°46	T 18
F 19	7 49 6	27°51'58	2°32	12°45	5°44	8°5	8°5	12°45	9°58	20°59	21°16	24°16	22°53	8°20	10°49	F 19
S 20	7 53 3	28°53'01	6°258	4°15	13°54	6°13	8°12	12°52	10°1	21°1	21°17	24°12	22°50	8°27	10°52	S 20
S 21	7 56 59	29°54'03	21°7	5°58	15°2	6°42	8°18	12°59	10°4	21°3	21°18	24°10	22°46	8°33	10°55	S 21
M22	8 0 56	0°55'05	4°255	7°41	16°11	7°12	8°24	13°7	10°6	21°5	21°19	24°D10	22°43	8°40	10°58	M22
T 23	8 4 52	1°56'07	18°22	9°25	17°19	7°42	8°30	13°14	10°9	21°7	21°20	24°11	22°40	8°47	11°1	T 23
W24	8 8 49	2°57'08	1°230	11°9	18°28	8°11	8°35	13°21	10°12	21°9	21°21	24°13	22°37	8°54	11°4	W24
T 25	8 12 46	3°58'08	14°22	12°54	19°37	8°42	8°41	13°28	10°14	21°10	21°22	24°14	22°34	9°0	11°7	T 25
F 26	8 16 42	4°59'08	27°0	14°38	20°46	9°12	8°46	13°35	10°17	21°12	21°23	24°R15	22°30	9°7	11°11	F 26
S 27	8 20 39	6°0'08	9°26	16°23	21°56	9°42	8°52	13°42	10°19	21°14	21°25	24°13	22°27	9°14	11°14	S 27
S 28	8 24 35	7°1'06	21°43	18°7	23°5	10°13	8°57	13°49	10°22	21°16	21°26	24°10	22°24	9°21	11°17	S 28
M29	8 28 32	8°2'03	3°252	19°51	24°14	10°43	9°2	13°57	10°24	21°17	21°27	24°4	22°21	9°27	11°21	M29
T 30	8 32 28	9°3'00	15°54	21°34	25°24	11°14	9°6	14°4	10°26	21°19	21°28	23°56	22°18	9°34	11°24	T 30
W31	8 36 25	10°3'55	27°51	23°17	26°34	11°45	9°11	14°11	10°29	21°21	21°29	23°II47	22°II15	9°41	11°27	W31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23s 7	23s44	2s40	24s41	1s15	15s27	3n10	11n32	0n57	12s22	1n10	18s23	0s51	21s46	0n 4	21s47	1n20	17s43	15s27	23n22	23n19	13s45	3s19	4n51			
T 2	23 3	21 53	3 34	24 43	1 20	15 43	3 9	11 42	0 58	12 24	1 10	18 21	0 51	21 46	0 4	21 47	1 20	17 43	15 27	23 21	23 19	13 43	3 19	4 51			
W 3	22 58	19 5	4 18	24 44	1 25	15 59	3 9	11 52	0 59	12 27	1 11	18 19	0 51	21 47	0 4	21 48	1 20	17 42	15 27	23 21	23 19	13 41	3 18	4 51			
T 4	22 52	15 30	4 50	24 44	1 30	16 15	3 8	12 2	1 0	12 30	1 11	18 17	0 51	21 47	0 4	21 48	1 20	17 42	15 26	23 21	23 19	13 39	3 18	4 50			
F 5	22 46	11 21	5 9	24 42	1 35	16 30	3 8	12 12	1 1	12 32	1 11	18 16	0 51	21 48	0 4	21 48	1 20	17 41	15 26	23 21	23 19	13 36	3 17	4 50			
S 6	22 40	6 46	5 15	24 39	1 39	16 46	3 7	12 22	1 2	12 35	1 11	18 14	0 51	21 48	0 4	21 48	1 20	17 41	15 26	23 21	23 18	13 34	3 16	4 50			
S 7	22 33	1 55	5 8	24 34	1 43	17 1	3 6	12 32	1 3	12 37	1 11	18 12	0 51	21 49	0 4	21 48	1 20	17 40	15 26	23 21	23 18	13 32	3 16	4 50			
M 8	22 25	3n 3	4 47	24 28	1 46	17 15	3 5	12 42	1 4	12 40	1 11	18 10	0 51	21 49	0 4	21 48	1 20	17 39	15 25	23 21	23 18	13 30	3 15	4 49			
T 9	22 18	8 1	4 12	24 20	1 50	17 30	3 3	12 53	1 5	12 42	1 12	18 8	0 51	21 49	0 4	21 48	1 20	17 39	15 25	23 21	23 18	13 27	3 14	4 49			
W10	22 9	12 47	3 25	24 11	1 53	17 44	3 2	13 3	1 6	12 45	1 12	18 7	0 51	21 50	0 4	21 49	1 20	17 38	15 25	23 21	23 18	13 25	3 13	4 49			
T 11	22 1	17 7	2 26	24 0	1 56	17 58	3 1	13 13	1 7	12 47	1 12	18 5	0 51	21 50	0 4	21 49	1 20	17 38	15 24	23 21	23 18	13 23	3 13	4 49			
F 12	21 52	20 44	1 18	23 48	1 58	18 12	2 59	13 23	1 8	12 49	1 12	18 3	0 51	21 51	0 4	21 49	1 20	17 37	15 24	23 21	23 17	13 20	3 12	4 48			
S 13	21 42	23 17	0 3	23 34	2 0	18 25	2 57	13 34	1 9	12 51	1 12	18 1	0 51	21 51	0 4	21 49	1 20	17 36	15 24	23 21	23 17	13 18	3 11	4 48			
S 14	21 32	24 27	1n15	23 19	2 2	18 38	2 55	13 44	1 9	12 54	1 12	17 59	0 51	21 52	0 4	21 49	1 20	17 36	15 24	23 21	23 17	13 16	3 10	4 48			
M15	21 22	23 57	2 29	23 2	2 4	18 51	2 53	13 54	1 10	12 56	1 13	17 57	0 51	21 52	0 4	21 49	1 20	17 35	15 23	23 21	23 17	13 13	3 9	4 47			
T 16	21 11	21 47	3 35	22 44	2 5	19 3	2 51	14 5	1 11	12 58	1 13	17 55	0 51	21 53	0 4	21 49	1 20	17 35	15 23	23 21	23 17	13 11	3 9	4 47			
W17	21 0	18 7	4 26	22 24	2 5	19 15	2 49	14 15	1 12	13 0	1 13	17 53	0 51	21 53	0 4	21 49	1 20	17 34	15 23	23 21	23 17	13 9	3 8	4 47			
T 18	20 48	13 18	4 59	22 2	2 5	19 26	2 47	14 25	1 12	13 2	1 13	17 51	0 51	21 53	0 4	21 50	1 20	17 33	15 22	23 21	23 16	13 6	3 7	4 47			
F 19	20 37	7 45	5 12	21 39	2 5	19 38	2 45	14 36	1 13	13 4	1 13	17 49	0 51	21 54	0 4	21 50	1 20	17 33	15 22	23 20	23 16	13 4	3 6	4 46			
S 20	20 24	1 53	5 4	21 14	2 5	19 48	2 42	14 46	1 14	13 6	1 13	17 47	0 52	21 54	0 4	21 50	1 20	17 32	15 22	23 20	23 16	13 2	3 5	4 46			
S 21	20 11	3s57	4 38	20 48	2 3	19 58	2 40	14 56	1 14	13 7	1 14	17 45	0 52	21 55	0 4	21 50	1 20	17 31	15 22	23 20	23 16	12 59	3 4	4 46			
M22	19 58	9 28	3 56	20 20	2 2	20 8	2 37	15 7	1 15	13 9	1 14	17 43	0 52	21 55	0 4	21 50	1 20	17 31	15 21	23 20	23 16	12 57	3 3	4 46			
T 23	19 45	14 23	3 3	19 50	2 0	20 17	2 35	15 17	1 16	13 11	1 14	17 41	0 52	21 56	0 4	21 50	1 20	17 30	15 21	23 20	23 16	12 55	3 2	4 46			
W24	19 31	18 31	2 0	19 19	1 57	20 26	2 32	15 27	1 16	13 13	1 14	17 39	0 52	21 56	0 4	21 50	1 20	17 29	15 21	23 20	23 15	12 52	3 1	4 45			
T 25	19 17	21 40	0 53	18 46	1 54	20 35	2 29	15 37	1 17	13 14	1 14	17 37	0 52	21 56	0 4	21 50	1 20	17 29	15 21	23 20	23 15	12 50	3 0	4 45			
F 26	19 2	23 41	0s15	18 12	1 50	20 43	2 26	15 48	1 17	13 16	1 14	17 35	0 52	21 57	0 4	21 50	1 20	17 28	15 20	23 20	23 15	12 48	2 59	4 45			
S 27	18 47	24 29	1 21	17 37	1 45	20 50	2 23	15 58	1 18	13 17	1 15	17 33	0 52	21 57	0 4	21 50	1 20	17 27	15 20	23 20	23 15	12 45	2 58	4 45			
S 28	18 32	24 4	2 23	17 0	1 40	20 57	2 20	16 8	1 18	13 19	1 15	17 31	0 52	21 57	0 4	21 51	1 20	17 27	15 20	23 20	23 15	12 43	2 57	4 44			
M29	18 17	22 30	3 18	16 22	1 34	21 3	2 17	16 18	1 19	13 20	1 15	17 29	0 52	21 58	0 4	21 51	1 20	17 26	15 20	23 20	23 15	12 40	2 56	4 44			
T 30	18 1	19 56	4 2	15 43	1 28	21 9	2 14	16 28	1 19	13 21	1 15	17 27	0 52	21 58	0 4	21 51	1 20	17 25	15 20	23 19	23 14	12 38	2 55	4 44			
W31	17s44	16s33	4s36	15s 2	1s20	21s14	2n11	16n39	1n20	13s23	1n15	17s25	0s52	21s58	0n 4	21s51	1n20	17s25	15s19	23n19	23n14	12s36	2s54	4n44			

ASTRODIENST EPHEMERIS for the year 1816

FEBRUARY 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 40 21	11≈ 4'49	9✠45	24≈59	27≈44	12✠17	9♂15	14≈18	10≈31	21≈22	21✠30	23°R38	22Ⅱ11	9✠47	11✠31	T 1	
F 2	8 44 18	12° 5'42	21°36	26°39	28°54	12°48	9°19	14°25	10°33	21°24	21°32	23Ⅱ28	22° 8	9°54	11°34	F 2	
S 3	8 48 15	13° 6'33	3Ⅴ27	28°18	0✠ 4	13°19	9°24	14°32	10°35	21°25	21°33	23°20	22° 5	10° 1	11°38	S 3	
S 4	8 52 11	14° 7'24	15°22	29°54	1°14	13°51	9°27	14°40	10°37	21°27	21°34	23°14	22° 2	10° 8	11°41	S 4	
M 5	8 56 8	15° 8'12	27°24	1✠28	2°24	14°23	9°31	14°47	10°39	21°29	21°35	23°10	21°59	10°14	11°45	M 5	
T 6	9 0 4	16° 8'59	9✠38	2°58	3°34	14°55	9°35	14°54	10°41	21°30	21°37	23° 8	21°56	10°21	11°48	T 6	
W 7	9 4 1	17° 9'45	22° 7	4°25	4°45	15°27	9°38	15° 1	10°43	21°32	21°38	23°D 8	21°52	10°28	11°52	W 7	
T 8	9 7 57	18°10'29	4Ⅱ57	5°47	5°55	15°59	9°41	15° 8	10°45	21°33	21°39	23° 8	21°49	10°34	11°55	T 8	
F 9	9 11 54	19°11'12	18°13	7° 5	7° 6	16°31	9°44	15°16	10°47	21°34	21°41	23°R 9	21°46	10°41	11°59	F 9	
S 10	9 15 50	20°11'53	1✠57	8°16	8°17	17° 3	9°47	15°23	10°49	21°36	21°42	23° 9	21°43	10°48	12° 2	S 10	
S 11	9 19 47	21°12'32	16°10	9°21	9°28	17°36	9°50	15°30	10°51	21°37	21°43	23° 7	21°40	10°55	12° 6	S 11	
M12	9 23 44	22°13'10	0♂50	10°19	10°38	18° 8	9°52	15°37	10°53	21°39	21°45	23° 2	21°36	11° 1	12°10	M12	
T 13	9 27 40	23°13'46	15°53	11° 8	11°49	18°41	9°55	15°44	10°54	21°40	21°46	22°55	21°33	11° 8	12°13	T 13	
W14	9 31 37	24°14'21	1Ⅱ9	11°49	13° 0	19°14	9°57	15°51	10°56	21°41	21°48	22°46	21°30	11°15	12°17	W14	
T 15	9 35 33	25°14'54	16°27	12°21	14°11	19°47	9°59	15°59	10°58	21°42	21°49	22°36	21°27	11°21	12°21	T 15	
F 16	9 39 30	26°15'26	1✠35	12°43	15°23	20°19	10° 0	16° 6	10°59	21°44	21°50	22°27	21°24	11°28	12°24	F 16	
S 17	9 43 26	27°15'56	16°25	12°55	16°34	20°53	10° 2	16°13	11° 1	21°45	21°52	22°19	21°21	11°35	12°28	S 17	
S 18	9 47 23	28°16'25	0♂50	12°R56	17°45	21°26	10° 3	16°20	11° 2	21°46	21°53	22°14	21°17	11°42	12°32	S 18	
M19	9 51 19	29°16'53	14°48	12°48	18°56	21°59	10° 5	16°27	11° 4	21°47	21°55	22°11	21°14	11°48	12°36	M19	
T 20	9 55 16	0✠17'20	28°17	12°29	20° 8	22°32	10° 6	16°34	11° 5	21°48	21°56	22°D10	21°11	11°55	12°39	T 20	
W21	9 59 13	1°17'45	11≈22	12° 1	21°19	23° 6	10° 6	16°41	11° 6	21°49	21°58	22°10	21° 8	12° 2	12°43	W21	
T 22	10 3 9	2°18'09	24° 6	11°25	22°31	23°39	10° 7	16°48	11° 8	21°50	21°59	22°R10	21° 5	12° 9	12°47	T 22	
F 23	10 7 6	3°18'31	✠633	10°40	23°43	24°13	10° 8	16°55	11° 9	21°51	22° 0	22° 9	21° 1	12°15	12°51	F 23	
S 24	10 11 2	4°18'52	18°47	9°49	24°54	24°46	10° 8	17° 2	11°10	21°52	22° 2	22° 6	20°58	12°22	12°54	S 24	
S 25	10 14 59	5°19'12	0≈52	8°52	26° 6	25°20	10°R 8	17° 9	11°11	21°53	22° 3	22° 0	20°55	12°29	12°58	S 25	
M26	10 18 55	6°19'29	12°51	7°51	27°18	25°54	10° 8	17°16	11°12	21°54	22° 5	21°51	20°52	12°35	13° 2	M26	
T 27	10 22 52	7°19'46	24°46	6°48	28°30	26°28	10° 7	17°23	11°13	21°55	22° 6	21°40	20°49	12°42	13° 6	T 27	
W28	10 26 48	8°20'00	6♂39	5°45	29°41	27° 2	10° 7	17°30	11°14	21°56	22° 8	21°26	20°46	12°49	13°10	W28	
T 29	10 30 45	9✠20'12	18✠31	4✠42	0≈53	27✠36	10♂ 6	17≈37	11≈15	21≈57	22✠ 9	21Ⅱ11	20Ⅱ42	12✠56	13✠13	T 29	

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
T 1	17s28	12s31	4s58	14s21	1s12	21s19	2n 8	16n49	1n20	13s24	1n16	17s23	0s52	21s59	0n 4	21s51	1n20	17s24	15s19	23n19	23n14	12s33	2s53	4n44	
F 2	17 11	8 1	5 6	13 38	1 4	21 23	2 5	16 59	1 21	13 25	1 16	17 21	0 52	21 59	0 4	21 51	1 20	17 23	15 19	23 18	23 14	12 31	2 52	4 44	
S 3	16 54	3 14	5 2	12 56	0 54	21 27	2 1	17 9	1 21	13 26	1 16	17 19	0 52	21 59	0 4	21 51	1 20	17 23	15 19	23 18	23 14	12 29	2 50	4 43	
S 4	16 36	1n41	4 44	12 12	0 44	21 30	1 58	17 19	1 22	13 27	1 16	17 17	0 52	22 0	0 4	21 51	1 20	17 22	15 19	23 17	23 13	12 26	2 49	4 43	
M 5	16 19	6 36	4 14	11 29	0 33	21 32	1 55	17 29	1 22	13 28	1 16	17 15	0 52	22 0	0 4	21 51	1 20	17 21	15 18	23 17	23 13	12 24	2 48	4 43	
T 6	16 1	11 22	3 32	10 45	0 21	21 34	1 51	17 38	1 22	13 29	1 17	17 13	0 53	22 0	0 4	21 51	1 20	17 21	15 18	23 17	23 13	12 21	2 47	4 43	
W 7	15 42	15 46	2 39	10 2	0 8	21 35	1 48	17 48	1 23	13 30	1 17	17 11	0 53	22 1	0 4	21 51	1 20	17 20	15 18	23 17	23 13	12 19	2 46	4 43	
T 8	15 24	19 34	1 36	9 19	0n 5	21 36	1 44	17 58	1 23	13 31	1 17	17 9	0 53	22 1	0 4	21 51	1 20	17 19	15 18	23 17	23 13	12 17	2 45	4 42	
F 9	15 5	22 30	0 26	8 38	0 19	21 36	1 41	18 8	1 24	13 32	1 17	17 7	0 53	22 1	0 4	21 51	1 20	17 19	15 18	23 17	23 12	12 14	2 43	4 42	
S 10	14 46	24 14	0n47	7 58	0 33	21 35	1 37	18 17	1 24	13 32	1 17	17 5	0 53	22 1	0 4	21 51	1 20	17 18	15 17	23 17	23 12	12 12	2 42	4 42	
S 11	14 27	24 28	2 0	7 19	0 49	21 34	1 33	18 27	1 24	13 33	1 18	17 3	0 53	22 2	0 4	21 52	1 21	17 17	15 17	23 17	23 12	12 9	2 41	4 42	
M 12	14 7	23 2	3 7	6 43	1 4	21 33	1 30	18 36	1 25	13 33	1 18	17 1	0 53	22 2	0 4	21 52	1 21	17 17	15 17	23 17	23 12	12 7	2 40	4 42	
T 13	13 47	19 57	4 3	6 10	1 20	21 30	1 26	18 46	1 25	13 34	1 18	16 59	0 53	22 2	0 4	21 52	1 21	17 16	15 17	23 16	23 12	12 4	2 38	4 42	
W 14	13 27	15 28	4 42	5 40	1 36	21 28	1 22	18 55	1 25	13 35	1 18	16 57	0 53	22 2	0 4	21 52	1 21	17 15	15 17	23 16	23 11	12 2	2 37	4 42	
T 15	13 7	9 59	5 2	5 13	1 52	21 24	1 19	19 4	1 26	13 35	1 18	16 55	0 53	22 3	0 4	21 52	1 21	17 14	15 17	23 15	23 11	12 0	2 36	4 41	
F 16	12 47	3 57	4 59	4 50	2 8	21 20	1 15	19 13	1 26	13 35	1 19	16 53	0 53	22 3	0 4	21 52	1 21	17 14	15 17	23 15	23 11	11 57	2 35	4 41	
S 17	12 26	2s12	4 37	4 31	2 23	21 15	1 11	19 23	1 26	13 36	1 19	16 50	0 53	22 3	0 4	21 52	1 21	17 13	15 16	23 14	23 11	11 55	2 33	4 41	
S 18	12 5	8 4	3 58	4 17	2 37	21 10	1 8	19 32	1 26	13 36	1 19	16 48	0 53	22 3	0 4	21 52	1 21	17 12	15 16	23 14	23 11	11 52	2 32	4 41	
M 19	11 44	13 21	3 5	4 7	2 51	21 4	1 4	19 40	1 27	13 36	1 19	16 46	0 54	22 3	0 4	21 52	1 21	17 12	15 16	23 14	23 10	11 50	2 31	4 41	
T 20	11 23	17 48	2 3	4 3	3 4	20 58	1 0	19 49	1 27	13 36	1 19	16 44	0 54	22 4	0 4	21 52	1 21	17 11	15 16	23 14	23 10	11 47	2 29	4 41	
W 21	11 1	21 13	0 57	4 3	3 15	20 50	0 57	19 58	1 27	13 36	1 20	16 42	0 54	22 4	0 4	21 52	1 21	17 10	15 16	23 14	23 10	11 45	2 28	4 41	
T 22	10 40	23 30	0s10	4 8	3 25	20 43	0 53	20 7	1 27	13 36	1 20	16 40	0 54	22 4	0 4	21 52	1 21	17 10	15 16	23 14	23 10	11 42	2 27	4 41	
F 23	10 18	24 34	1 16	4 18	3 33	20 34	0 49	20 15	1 27	13 36	1 20	16 38	0 54	22 4	0 4	21 52	1 21	17 9	15 16	23 14	23 10	11 40	2 25	4 41	
S 24	9 56	24 24	2 16	4 32	3 38	20 25	0 46	20 24	1 28	13 36	1 20	16 36	0 54	22 4	0 4	21 52	1 21	17 8	15 16	23 14	23 9	11 37	2 24	4 40	
S 25	9 34	23 4	3 10	4 49	3 42	20 16	0 42	20 32	1 28	13 36	1 20	16 34	0 54	22 5	0 4	21 52	1 21	17 8	15 16	23 13	23 9	11 35	2 23	4 40	
M 26	9 12	20 43	3 54	5 10	3 44	20 6	0 38	20 41	1 28	13 36	1 21	16 32	0 54	22 5	0 4	21 52	1 21	17 7	15 16	23 13	23 9	11 32	2 21	4 40	
T 27	8 50	17 29	4 28	5 34	3 43	19 55	0 35	20 49	1 28	13 35	1 21	16 30	0 54	22 5	0 4	21 52	1 21	17 6	15 15	23 12	23 9	11 30	2 20	4 40	
W 28	8 27	13 34	4 50	6 0	3 40	19 44	0 31	20 57	1 28	13 35	1 21	16 28	0 54	22 5	0 4	21 52	1 21	17 6	15 15	23 11	23 8	11 28	2 19	4 40	
T 29	8s 5	9s 8	4s59	6s28	3n35	19s32	0n27	21n 5	1n29	13s35	1n21	16s26	0s54	22s 5	0n 4	21s52	1n21	17s 5	15s15	23n10	23n 8	11s25	2s17	4n40	

Julian Day Number = 2384370.5. Delta T = 16.38 sec

Ecliptic obliquity = $23^{\circ}27'49''$, Nutation = $-0^{\circ}00'15''$, out-of-bounds declination in red

Avanamsha: Fagan/Bradley = 22°10'20. Lahiri = 21°17'21

ASTRODIENST EPHEMERIS for the year 1816

geocentric

MARCH 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 34 41	10 ^h 20'23	0 ^h 23	3 ^h 41	2 ^h 55	28 ^h 10	10 ^h R 5	17 ^h 44	11 ^h 16	21 ^h 58	22 ^h 11	20 ^h R57	20 ^h 39	13 ^h 17	13 ^h 17	F 1
S 2	10 38 38	11 ^h 20'32	12 ^h 18	2 ^h 44	3 ^h 17	28 ^h 44	10 ^h M 4	17 ^h 51	11 ^h 17	21 ^h 58	22 ^h 12	20 ^h 44	20 ^h 36	13 ^h 9	13 ^h 21	S 2
S 3	10 42 35	12 ^h 20'39	24 ^h 16	1 ^h 51	4 ^h 29	29 ^h 18	10 ^h 3	17 ^h 57	11 ^h 17	21 ^h 59	22 ^h 14	20 ^h 34	20 ^h 33	13 ^h 16	13 ^h 25	S 3
M 4	10 46 31	13 ^h 20'43	6 ^h 20	1 ^h 4	5 ^h 41	29 ^h 53	10 ^h 2	18 ^h 4	11 ^h 18	22 ^h 0	22 ^h 15	20 ^h 26	20 ^h 30	13 ^h 22	13 ^h 29	M 4
T 5	10 50 28	14 ^h 20'46	18 ^h 35	0 ^h 22	6 ^h 53	0 ^h 27	10 ^h 0	18 ^h 11	11 ^h 19	22 ^h 1	22 ^h 17	20 ^h 21	20 ^h 27	13 ^h 29	13 ^h 33	T 5
W 6	10 54 24	15 ^h 20'47	1 ^h 2	29 ^h 46	8 ^h 5	1 ^h 2	9 ^h 58	18 ^h 18	11 ^h 19	22 ^h 1	22 ^h 19	20 ^h 19	20 ^h 23	13 ^h 36	13 ^h 36	W 6
T 7	10 58 21	16 ^h 20'45	13 ^h 48	29 ^h 18	9 ^h 18	1 ^h 36	9 ^h 56	18 ^h 24	11 ^h 20	22 ^h 2	22 ^h 20	20 ^h 19	20 ^h 20	13 ^h 43	13 ^h 40	T 7
F 8	11 2 17	17 ^h 20'42	26 ^h 56	28 ^h 55	10 ^h 30	2 ^h 11	9 ^h 54	18 ^h 31	11 ^h 20	22 ^h 2	22 ^h 22	20 ^h 19	20 ^h 17	13 ^h 49	13 ^h 44	F 8
S 9	11 6 14	18 ^h 20'36	10 ^h 29	28 ^h 40	11 ^h 42	2 ^h 45	9 ^h 52	18 ^h 37	11 ^h 21	22 ^h 3	22 ^h 23	20 ^h 18	20 ^h 14	13 ^h 56	13 ^h 48	S 9
S 10	11 10 10	19 ^h 20'28	24 ^h 32	28 ^h 31	12 ^h 54	3 ^h 20	9 ^h 49	18 ^h 44	11 ^h 21	22 ^h 3	22 ^h 25	20 ^h 15	20 ^h 11	14 ^h 3	13 ^h 52	S 10
M 11	11 14 7	20 ^h 20'17	9 ^h 2	28 ^h D28	14 ^h 7	3 ^h 55	9 ^h 46	18 ^h 50	11 ^h 21	22 ^h 4	22 ^h 26	20 ^h 9	20 ^h 7	14 ^h 10	13 ^h 55	M 11
T 12	11 18 4	21 ^h 20'05	23 ^h 58	28 ^h 31	15 ^h 19	4 ^h 29	9 ^h 43	18 ^h 57	11 ^h 22	22 ^h 4	22 ^h 28	20 ^h 1	20 ^h 4	14 ^h 16	13 ^h 59	T 12
W 13	11 22 0	22 ^h 19'50	9 ^h 12	28 ^h 41	16 ^h 31	5 ^h 4	9 ^h 40	19 ^h 3	11 ^h 22	22 ^h 5	22 ^h 29	19 ^h 51	20 ^h 1	14 ^h 23	14 ^h 3	W 13
T 14	11 25 57	23 ^h 19'33	24 ^h 34	28 ^h 55	17 ^h 44	5 ^h 39	9 ^h 37	19 ^h 10	11 ^h 22	22 ^h 5	22 ^h 31	19 ^h 40	19 ^h 58	14 ^h 30	14 ^h 7	T 14
F 15	11 29 53	24 ^h 19'14	9 ^h 51	29 ^h 16	18 ^h 56	6 ^h 14	9 ^h 34	19 ^h 16	11 ^h 22	22 ^h 5	22 ^h 32	19 ^h 29	19 ^h 55	14 ^h 36	14 ^h 11	F 15
S 16	11 33 50	25 ^h 18'53	24 ^h 53	29 ^h 41	20 ^h 9	6 ^h 49	9 ^h 30	19 ^h 22	11 ^h R22	22 ^h 6	22 ^h 34	19 ^h 19	19 ^h 52	14 ^h 43	14 ^h 14	S 16
S 17	11 37 46	26 ^h 18'30	9 ^h 31	0 ^h 10	21 ^h 21	7 ^h 24	9 ^h 26	19 ^h 29	11 ^h 22	22 ^h 6	22 ^h 35	19 ^h 12	19 ^h 48	14 ^h 50	14 ^h 18	S 17
M 18	11 41 43	27 ^h 18'06	23 ^h 41	0 ^h 45	22 ^h 33	7 ^h 59	9 ^h 22	19 ^h 35	11 ^h 22	22 ^h 6	22 ^h 37	19 ^h 8	19 ^h 45	14 ^h 57	14 ^h 22	M 18
T 19	11 45 39	28 ^h 17'40	7 ^h 20	1 ^h 23	23 ^h 46	8 ^h 34	9 ^h 18	19 ^h 41	11 ^h 22	22 ^h 6	22 ^h 39	19 ^h 6	19 ^h 42	15 ^h 3	14 ^h 26	T 19
W 20	11 49 36	29 ^h 17'12	20 ^h 31	2 ^h 5	24 ^h 59	9 ^h 9	9 ^h 14	19 ^h 47	11 ^h 22	22 ^h 7	22 ^h 40	19 ^h D 6	19 ^h 39	15 ^h 10	14 ^h 29	W 20
T 21	11 53 33	0 ^h 16'42	3 ^h 17	2 ^h 51	26 ^h 11	9 ^h 44	9 ^h 9	19 ^h 53	11 ^h 22	22 ^h 7	22 ^h 42	19 ^h R 6	19 ^h 36	15 ^h 17	14 ^h 33	T 21
F 22	11 57 29	1 ^h 16'11	15 ^h 43	3 ^h 41	27 ^h 24	10 ^h 20	9 ^h 5	19 ^h 59	11 ^h 21	22 ^h 7	22 ^h 43	19 ^h 5	19 ^h 33	15 ^h 23	14 ^h 37	F 22
S 23	12 1 26	2 ^h 15'38	27 ^h 54	4 ^h 33	28 ^h 36	10 ^h 55	9 ^h 0	20 ^h 5	11 ^h 21	22 ^h 7	22 ^h 45	19 ^h 2	19 ^h 29	15 ^h 30	14 ^h 40	S 23
S 24	12 5 22	3 ^h 15'03	9 ^h 54	5 ^h 29	29 ^h 49	11 ^h 30	8 ^h 55	20 ^h 11	11 ^h 21	22 ^h R 7	22 ^h 46	18 ^h 57	19 ^h 26	15 ^h 37	14 ^h 44	S 24
M 25	12 9 19	4 ^h 14'26	21 ^h 49	6 ^h 28	1 ^h 18	12 ^h 5	8 ^h 50	20 ^h 17	11 ^h 20	22 ^h 7	22 ^h 48	18 ^h 49	19 ^h 23	15 ^h 44	14 ^h 48	M 25
T 26	12 13 15	5 ^h 13'47	3 ^h 40	7 ^h 29	2 ^h 14	12 ^h 41	8 ^h 45	20 ^h 23	11 ^h 20	22 ^h 7	22 ^h 49	18 ^h 38	19 ^h 20	15 ^h 50	14 ^h 51	T 26
W 27	12 17 12	6 ^h 13'07	15 ^h 31	8 ^h 33	3 ^h 27	13 ^h 16	8 ^h 40	20 ^h 29	11 ^h 19	22 ^h 7	22 ^h 51	18 ^h 26	19 ^h 17	15 ^h 57	14 ^h 55	W 27
T 28	12 21 8	7 ^h 12'24	27 ^h 24	9 ^h 39	4 ^h 40	13 ^h 52	8 ^h 34	20 ^h 34	11 ^h 19	22 ^h 7	22 ^h 52	18 ^h 12	19 ^h 13	16 ^h 4	14 ^h 59	T 28
F 29	12 25 5	8 ^h 11'39	9 ^h 20	10 ^h 48	5 ^h 53	14 ^h 27	8 ^h 29	20 ^h 40	11 ^h 18	22 ^h 7	22 ^h 54	17 ^h 59	19 ^h 10	16 ^h 11	15 ^h 2	F 29
S 30	12 29 2	9 ^h 10'53	21 ^h 20	11 ^h 59	7 ^h 5	15 ^h 3	8 ^h 23	20 ^h 46	11 ^h 17	22 ^h 6	22 ^h 55	17 ^h 47	19 ^h 7	16 ^h 17	15 ^h 6	S 30
S 31	12 32 58	10 ^h 10'04	3 ^h 27	13 ^h 12	8 ^h 18	15 ^h 38	8 ^h 17	20 ^h 51	11 ^h 17	22 ^h 6	22 ^h 57	17 ^h 37	19 ^h 4	16 ^h 24	15 ^h 9	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	7s42	4s22	4s56	6s56	3n28	19s20	0n24	21n13	1n29	13s34	1n21	16s24	0s55	22s 5	0n 4	F 1
S 2	7 19	0n35	4 39	7 24	3 20	19 7	0 20	21 21	1 29	13 34	1 22	16 22	0 55	22 5	0 4	S 2
S 3	6 56	5 32	4 10	7 52	3 10	18 54	0 17	21 28	1 29	13 33	1 22	16 20	0 55	22 5	0 4	S 3
M 4	6 33	10 21	3 30	8 20	2 58	18 40	0 13	21 36	1 29	13 33	1 22	16 18	0 55	22 6	0 4	M 4
T 5	6 10	14 49	2 39	8 46	2 46	18 25	0 10	21 43	1 29	13 32	1 22	16 16	0 55	22 6	0 4	T 5
W 6	5 47	18 45	1 40	9 11	2 33	18 10	0 6	21 51	1 29	13 31	1 22	16 14	0 55	22 6	0 4	W 6
T 7	5 24	21 55	0 34	9 34	2 19	17 54	0 3	21 58	1 29	13 30	1 22	16 12	0 55	22 6	0 4	T 7
F 8	5 0	24 1	0n35	9 54	2 5	17 38	0s 1	22 5	1 30	13 29	1 23	16 10	0 55	22 6	0 4	F 8
S 9	4 37	24 47	1 44	10 13	1 51	17 22	0 4	22 12	1 30	13 29	1 23	16 8	0 55	22 6	0 4	S 9
S 10	4 13	24 2	2 50	10 30	1 36	17 5	0 7	22 19	1 30	13 28	1 23	16 6	0 56	22 6	0 4	S 10
M 11	3 50	21 40	3 47	10 44	1 22	16 47	0 11	22 25	1 30	13 27	1 23	16 4	0 56	22 6	0 4	M 11
T 12	3 26	17 47	4 30	10 57	1 8	16 29	0 14	22 32	1 30	13 25	1 23	16 2	0 56	22 6	0 4	T 12
W 13	3 3	12 41	4 55	11 7	0 53	16 10	0 17	22 38	1 30	13 24	1 23	16 1	0 56	22 6	0 4	W 13
T 14	2 39	6 44	4 55	11 14	0 40	15 52	0 20	22 45	1 30	13 23	1 24	15 59	0 56	22 6	0 4	T 14
F 15	2 15	0 25	4 41	11 20	0 26	15 32	0 23	22 51	1 30	13 22	1 24	15 57	0 56	22 6	0 4	F 15
S 16	1 52	5s51	4 5	11 23	0 13	15 12	0 27	22 57	1 30	13 21	1 24	15 55	0 56	22 6	0 4	S 16
S 17	1 28	11 38	3 13	11 25	0 1	14 52	0 30	23 3	1 30	13 19	1 24	15 53	0 56	22 6	0 4	S 17
M 18	1 4	16 37	2 10	11 24	0s12	14 31	0 33	23 9	1 30	13 18	1 24	15 51	0 56	22 6	0 4	M 18
T 19	0 41	20 32	1 2	11 21	0 23	14 10	0 35	23 14	1 30	13 16	1 24	15 49	0 57	22 6	0 4	T 19
W 20	0 17	23 15	0s 8	11 17	0 34	13 49	0 38	23 20	1 30	13 15	1 25	15 48	0 57	22 6	0 4	W 20
T 21	0n 7	24 40	1 14	11 10	0 45	13 27	0 41	23 25	1 30	13 13	1 25	15 46	0 57	22 6	0 4	T 21
F 22	0 30	24 47	2 16	11 2	0 55	13 4	0 44	23 31	1 30	13 12	1 25	15 44	0 57	22 6	0 4	F 22
S 23	0 54	23 42	3 10	10 52	1 5	12 42	0 47	23 36	1 30	13 10	1 25	15 42	0 57	22 6	0 4	S 23
S 24	1 18	21 33	3 55	10 40	1 14	12 19	0 49	23 41	1 30	13 9	1 25	15 40	0 57	22 6	0 4	S 24
M 25	1 41	18 29	4 28	10 26	1 23	11 56	0 52	23 45	1 30	13 7	1 25	15 39	0 57	22 6	0 4	M 25

ASTRODIENST EPHEMERIS for the year 1816
geocentric

APRIL 1816

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
M 1	12 36 55	11° 9' 13	15° 8' 40	14° 27	9° 31	16° 11	8° 11	20° 57	11° 16	22° 6	22° 58	17° 30	19° 11	16° 31	15° 13	M 1
T 2	12 40 51	12° 8' 20	28° 3	15° 44	10° 44	16° 49	8° 15	21° 2	11° 15	22° 6	23° 0	17° 26	18° 58	16° 37	15° 16	T 2
W 3	12 44 48	13° 7' 25	10° 38	17° 3	11° 56	17° 25	7° 59	21° 7	11° 14	22° 5	23° 1	17° 24	18° 54	16° 44	15° 20	W 3
T 4	12 48 44	14° 6' 27	23° 27	18° 24	13° 9	18° 1	7° 52	21° 13	11° 13	22° 5	23° 3	17° 24	18° 51	16° 51	15° 23	T 4
F 5	12 52 41	15° 5' 27	6° 35	19° 47	14° 22	18° 36	7° 46	21° 18	11° 12	22° 5	23° 4	17° 24	18° 48	16° 58	15° 27	F 5
S 6	12 56 37	16° 4' 25	20° 3	21° 11	15° 35	19° 12	7° 39	21° 23	11° 11	22° 4	23° 6	17° 24	18° 45	17° 4	15° 30	S 6
S 7	13 0 34	17° 3' 21	3° 56	22° 38	16° 48	19° 48	7° 32	21° 28	11° 10	22° 4	23° 7	17° 23	18° 42	17° 11	15° 33	S 7
M 8	13 4 31	18° 2' 14	18° 12	24° 5	18° 1	20° 24	7° 26	21° 33	11° 9	22° 3	23° 8	17° 20	18° 38	17° 18	15° 37	M 8
T 9	13 8 27	19° 1' 04	2° 51	25° 35	19° 13	21° 0	7° 19	21° 38	11° 8	22° 3	23° 10	17° 14	18° 35	17° 25	15° 40	T 9
W 10	13 12 24	19° 59' 53	17° 48	27° 6	20° 26	21° 35	7° 12	21° 43	11° 7	22° 2	23° 11	17° 7	18° 32	17° 31	15° 43	W 10
T 11	13 16 20	20° 58' 39	2° 54	28° 39	21° 39	22° 11	7° 5	21° 48	11° 5	22° 2	23° 13	16° 58	18° 29	17° 38	15° 47	T 11
F 12	13 20 17	21° 57' 23	18° 1	0° 14	22° 52	22° 47	6° 58	21° 52	11° 4	22° 1	23° 14	16° 50	18° 26	17° 45	15° 50	F 12
S 13	13 24 13	22° 56' 06	2° 58	1° 50	24° 5	23° 23	6° 51	21° 57	11° 3	22° 1	23° 15	16° 43	18° 23	17° 51	15° 53	S 13
S 14	13 28 10	23° 54' 46	17° 36	3° 28	25° 18	23° 59	6° 43	22° 2	11° 1	22° 0	23° 17	16° 37	18° 19	17° 58	15° 56	S 14
M 15	13 32 6	24° 53' 24	1° 49	5° 7	26° 31	24° 35	6° 36	22° 6	11° 0	21° 59	23° 18	16° 34	18° 16	18° 5	15° 59	M 15
T 16	13 36 3	25° 52' 01	15° 35	6° 48	27° 44	25° 11	6° 29	22° 11	10° 59	21° 59	23° 19	16° 33	18° 13	18° 12	16° 3	T 16
W 17	13 39 59	26° 50' 36	28° 53	8° 31	28° 57	25° 47	6° 21	22° 15	10° 57	21° 58	23° 21	16° 34	18° 10	18° 18	16° 6	W 17
T 18	13 43 56	27° 49' 10	11° 34	10° 16	0° 10	26° 23	6° 14	22° 19	10° 55	21° 57	23° 22	16° 35	18° 7	18° 25	16° 9	T 18
F 19	13 47 53	28° 47' 42	24° 16	12° 2	1° 23	26° 59	6° 6	22° 24	10° 54	21° 56	23° 23	16° 36	18° 4	18° 32	16° 12	F 19
S 20	13 51 49	29° 46' 12	6° 30	13° 49	2° 36	27° 35	5° 59	22° 28	10° 52	21° 56	23° 25	16° 36	18° 0	18° 38	16° 15	S 20
S 21	13 55 46	0° 44' 40	18° 31	15° 39	3° 49	28° 11	5° 51	22° 32	10° 51	21° 55	23° 26	16° 34	17° 57	18° 45	16° 18	S 21
M 22	13 59 42	1° 43' 07	0° 25	17° 30	5° 2	28° 47	5° 43	22° 36	10° 49	21° 54	23° 27	16° 30	17° 54	18° 52	16° 21	M 22
T 23	14 3 39	2° 41' 32	12° 17	19° 22	6° 15	29° 23	5° 36	22° 40	10° 47	21° 53	23° 28	16° 24	17° 51	18° 59	16° 24	T 23
W 24	14 7 35	3° 39' 56	24° 9	21° 17	7° 28	29° 59	5° 28	22° 44	10° 45	21° 52	23° 30	16° 18	17° 48	19° 5	16° 26	W 24
T 25	14 11 32	4° 38' 17	6° 4	23° 13	8° 41	0° 35	5° 21	22° 47	10° 44	21° 51	23° 31	16° 10	17° 44	19° 12	16° 29	T 25
F 26	14 15 28	5° 36' 38	18° 5	25° 10	9° 54	1° 12	5° 13	22° 51	10° 42	21° 50	23° 32	16° 2	17° 41	19° 19	16° 32	F 26
S 27	14 19 25	6° 34' 56	0° 15	27° 9	11° 7	1° 48	5° 5	22° 55	10° 40	21° 49	23° 33	15° 55	17° 38	19° 26	16° 35	S 27
S 28	14 23 22	7° 33' 13	12° 33	29° 10	12° 20	2° 24	4° 58	22° 58	10° 38	21° 48	23° 35	15° 50	17° 35	19° 32	16° 37	S 28
M 29	14 27 18	8° 31' 27	25° 1	1° 13	13° 33	3° 0	4° 50	23° 2	10° 36	21° 47	23° 36	15° 46	17° 32	19° 39	16° 40	M 29
T 30	14 31 15	9° 29' 40	7° 40	3° 17	14° 46	3° 37	4° 42	23° 5	10° 34	21° 46	23° 37	15° 44	17° 29	19° 46	16° 43	T 30

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
M 1	4n25	14n 0	2s40	8s 7	2s 9	9s 3	1s 8	24n15	1n30	12s54	1n26	15s27	0s58	22s 5	0n 4	21s51	1n22	16s47	15s16	22n53	23n 1	10s 4	1s32	4n40
T 2	4 48	18 6	1 41	7 41	2 14	8 38	1 10	24 18	1 30	12 52	1 26	15 25	0 58	22 5	0 4	21 51	1 22	16 46	15 16	22 52	23 0	10 1	1 31	4 40
W 3	5 11	21 28	0 36	7 14	2 18	8 12	1 12	24 22	1 30	12 49	1 26	15 24	0 59	22 5	0 4	21 51	1 22	16 46	15 17	22 52	23 0	9 58	1 29	4 40
T 4	5 34	23 50	0n32	6 46	2 22	7 46	1 14	24 25	1 30	12 47	1 26	15 22	0 59	22 5	0 4	21 51	1 22	16 45	15 17	22 52	23 0	9 56	1 28	4 40
F 5	5 57	24 58	1 41	6 16	2 25	7 19	1 16	24 28	1 30	12 45	1 26	15 21	0 59	22 5	0 4	21 51	1 23	16 45	15 17	22 52	22 59	9 53	1 26	4 40
S 6	6 20	24 41	2 45	5 45	2 27	6 53	1 17	24 31	1 30	12 43	1 26	15 19	0 59	22 5	0 4	21 51	1 23	16 44	15 17	22 52	22 59	9 51	1 25	4 40
S 7	6 42	22 53	3 42	5 13	2 29	6 26	1 19	24 34	1 30	12 41	1 26	15 18	0 59	22 5	0 4	21 51	1 23	16 44	15 17	22 52	22 59	9 48	1 24	4 40
M 8	7 5	19 37	4 27	4 40	2 31	5 59	1 21	24 37	1 30	12 39	1 26	15 16	0 59	22 5	0 4	21 51	1 23	16 43	15 17	22 52	22 59	9 45	1 22	4 40
T 9	7 27	15 3	4 55	4 5	2 32	5 32	1 22	24 39	1 30	12 36	1 26	15 15	0 59	22 4	0 4	21 51	1 23	16 43	15 17	22 51	22 58	9 43	1 21	4 40
W10	7 50	9 30	5 5	3 29	2 32	5 5	1 24	24 41	1 30	12 34	1 27	15 13	1 0	22 4	0 4	21 51	1 23	16 43	15 18	22 50	22 58	9 40	1 20	4 40
T 11	8 12	3 20	4 53	2 52	2 32	4 37	1 25	24 43	1 30	12 32	1 27	15 12	1 0	22 4	0 4	21 51	1 23	16 42	15 18	22 50	22 58	9 37	1 18	4 40
F 12	8 34	3s 3	4 21	2 14	2 32	4 9	1 26	24 45	1 30	12 29	1 27	15 10	1 0	22 4	0 4	21 51	1 23	16 42	15 18	22 49	22 58	9 35	1 17	4 41
S 13	8 56	9 12	3 32	1 35	2 31	3 42	1 28	24 47	1 29	12 27	1 27	15 9	1 0	22 4	0 4	21 51	1 23	16 41	15 18	22 48	22 57	9 32	1 16	4 41
S 14	9 17	14 43	2 29	0 54	2 29	3 14	1 29	24 49	1 29	12 25	1 27	15 8	1 0	22 4	0 4	21 51	1 23	16 41	15 18	22 47	22 57	9 30	1 14	4 41
M15	9 39	19 16	1 18	0 13	2 27	2 46	1 30	24 50	1 29	12 22	1 27	15 6	1 0	22 3	0 4	21 51	1 23	16 41	15 19	22 47	22 57	9 27	1 13	4 41
T 16	10 0	22 36	0 5	0n29	2 25	2 18	1 31	24 52	1 29	12 20	1 27	15 5	1 0	22 3	0 4	21 50	1 23	16 40	15 19	22 47	22 56	9 24	1 12	4 41
W17	10 21	24 33	1s 6	1 13	2 22	1 50	1 32	24 53	1 29	12 17	1 27	15 4	1 1	22 3	0 4	21 50	1 23	16 40	15 19	22 47	22 56	9 22	1 10	4 41
T 18	10 43	25 8	2 11	1 57	2 18	1 21	1 33	24 54	1 29	12 15	1 27	15 3	1 1	22 3	0 4	21 50	1 23	16 40	15 19	22 47	22 56	9 19	1 9	4 41
F 19	11 3	24 23	3 9	2 42	2 14	0 53	1 34	24 55	1 29	12 12	1 27	15 1	1 1	22 3	0 4	21 50	1 23	16 39	15 19	22 47	22 56	9 16	1 8	4 41
S 20	11 24	22 29	3 56	3 28	2 9	0 25	1 34	24 55	1 29	12 10	1 27	15 0	1 1	22 2	0 4	21 50	1 23	16 39	15 20	22 47	22 55	9 14	1 7	4 41
S 21	11 45	19 36	4 32	4 15	2 4	0n 4	1 35	24 56	1 29	12 7	1 27	14 59	1 1	22 2	0 4	21 50	1 23	16 39	15 20	22 47	22 55	9 11	1 5	4 42
M22	12 5	15 57	4 56	5 3	1 59	0 32	1 36	24 56	1 29	12 5	1 27	14 58	1 1	22 2	0 4	21 50	1 23	16 38	15 20	22 47	22 55	9 8	1 4	4 42
T 23	12 25	11 41	5 7	5 51	1 52	1 1	1 36	24 56	1 28	12 2	1 27	14 57	1 2	22 2	0 4	21 50	1 23	16 38	15 20	22 46	22 54	9 6	1 3	4 42
W24	12 45	7 0	5 5	6 40	1 46	1 29	1 37	24 56	1 28	12 0	1 27	14 56	1 2	22 1	0 4	21 50	1 23	16 38	15 21	22 45	22 54	9 3	1 2	4 42
T 25	13 5	2 2	4 50	7 30	1 39	1 57	1 37	24 56	1 28	11 57	1 26	14 55	1 2	22 1	0 4	21 50	1 23	16 38	15 21	22 45	22 54	9 0	1 0	4 42
F 26	13 24	3n 4	4 22	8 20	1 31	2 26	1 37	24 56	1 28	11 55	1 26	14 53	1 2	22 1	0 4	21 50	1 23	16 37	15 21	22 44	22 54	8 58	0 59	4 42
S 27	13 44	8 7	3 41	9 11	1 23	2 54	1 38	24 55	1 28	11 52	1 26	14 52	1 2	22 1	0 4	21 50	1 23	16 37	15 21	22 43	22 53	8 55	0 58	4 42
S 28	14 3	12 55	2 50	10 2	1 15	3 23	1 38	24 54	1 28	11 50	1 26	14 51	1 2	22 0	0 4	21 49	1 23	16 37	15 21	22 43	22 53	8 52	0 57	4 42
M29	14 22	17 15	1 50	10 53	1 16	3 51	1 38	24 53	1 28	11 47	1 26	14 51	1 3	22 0	0 4	21 49	1 23	16 37	15 22	22 42	22 53	8 50	0 56	4 43
T 30	14n40	20n53	0s44	11n44	0s57	4n19	1s38	24n52	1n28	11s45	1n26	14s50	1s 3	22s 0	0n 3	21s49	1n23	16s36	15s22	22n42	22n52	8s47	0s54	4n43

ASTRODIENST EPHEMERIS for the year 1816

geocentric

MAY 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 35 11	10 ⁸ 27'52	20 ^{II} 30	5 ⁸ 22	15 ^V 59	4 ⁵ 13	4 ^R 35	23 ⁸ 8	10 ^R 32	21 ^R 45	23 ⁸ 38	15 ^D 44	17 ^{II} 25	19 ⁸ 52	16 ⁸ 45	W 1
T 2	14 39 8	11 ⁰ 26'01	3 ⁵ 34	7 ⁰ 28	17 ¹²	4 ⁴⁹	4 ^{II} 27	23 ¹¹	10 ⁸ 30	21 ⁸ 44	23 ³⁹	15 ^{II} 45	17 ²²	19 ⁵⁹	16 ⁴⁸	T 2
F 3	14 43 4	12 ⁰ 24'09	16 ⁵³	9 ³⁶	18 ²⁵	5 ²⁵	4 ²⁰	23 ¹⁴	10 ²⁸	21 ⁴³	23 ⁴⁰	15 ⁴⁶	17 ¹⁹	20 ⁶	16 ⁵⁰	F 3
S 4	14 47 1	13 ⁰ 22'14	0 ² 27	11 ⁴⁵	19 ³⁸	6 ²	4 ¹²	23 ¹⁷	10 ²⁶	21 ⁴²	23 ⁴¹	15 ⁴⁸	17 ¹⁶	20 ¹³	16 ⁵³	S 4
S 5	14 50 57	14 ⁰ 20'18	14 ¹⁸	13 ⁵⁴	20 ⁵¹	6 ³⁸	4 ⁵	23 ²⁰	10 ²⁴	21 ⁴⁰	23 ⁴²	15 ^R 48	17 ¹³	20 ¹⁹	16 ⁵⁵	S 5
M 6	14 54 54	15 ⁰ 18'19	28 ²⁵	16 ⁴	22 ⁴	7 ¹⁴	3 ⁵⁷	23 ²³	10 ²²	21 ³⁹	23 ⁴³	15 ⁴⁷	17 ¹⁰	20 ²⁶	16 ⁵⁸	M 6
T 7	14 58 51	16 ⁰ 16'19	12 ^{II} 48	18 ¹⁵	23 ¹⁷	7 ⁵¹	3 ⁵⁰	23 ²⁶	10 ¹⁹	21 ³⁸	23 ⁴⁴	15 ⁴⁶	17 ⁶	20 ³³	17 ⁰	T 7
W 8	15 2 47	17 ⁰ 14'16	27 ²³	20 ²⁵	24 ³⁰	8 ²⁷	3 ⁴³	23 ²⁸	10 ¹⁷	21 ³⁷	23 ⁴⁵	15 ⁴²	17 ³	20 ⁴⁰	17 ²	W 8
T 9	15 6 44	18 ⁰ 12'12	12 ^{II} 5	22 ³⁶	25 ⁴³	9 ⁴	3 ³⁵	23 ³¹	10 ¹⁵	21 ³⁵	23 ⁴⁶	15 ³⁹	17 ⁰	20 ⁴⁶	17 ⁴	T 9
F 10	15 10 40	19 ⁰ 10'06	26 ⁴⁷	24 ⁴⁶	26 ⁵⁶	9 ⁴⁰	3 ²⁸	23 ³³	10 ¹³	21 ³⁴	23 ⁴⁷	15 ³⁵	16 ⁵⁷	20 ⁵³	17 ⁷	F 10
S 11	15 14 37	20 ⁰ 7'58	11 ^{II} 23	26 ⁵⁵	28 ⁹	10 ¹⁶	3 ²¹	23 ³⁶	10 ¹¹	21 ³³	23 ⁴⁸	15 ³²	16 ⁵⁴	21 ⁰	17 ⁹	S 11
S 12	15 18 33	21 ⁰ 5'49	25 ⁴⁶	29 ³	29 ²²	10 ⁵³	3 ¹⁴	23 ³⁸	10 ⁸	21 ³²	23 ⁴⁹	15 ³⁰	16 ⁵⁰	21 ⁶	17 ¹¹	S 12
M13	15 22 30	22 ⁰ 3'39	9 ⁸ 50	1 ^{II} 10	0 ⁸ 36	11 ²⁹	3 ⁷	23 ⁴⁰	10 ⁶	21 ³⁰	23 ⁵⁰	15 ^D 29	16 ⁴⁷	21 ¹³	17 ¹³	M13
T 14	15 26 26	23 ⁰ 1'27	23 ³¹	3 ¹⁵	1 ⁴⁹	12 ⁶	3 ⁰	23 ⁴²	10 ⁴	21 ²⁹	23 ⁵¹	15 ²⁹	16 ⁴⁴	21 ²⁰	17 ¹⁵	T 14
W15	15 30 23	23 ⁰ 59'14	6 ⁸ 49	5 ¹⁹	3 ²	12 ⁴²	2 ⁵³	23 ⁴⁴	10 ¹	21 ²⁷	23 ⁵²	15 ³⁰	16 ⁴¹	21 ²⁷	17 ¹⁷	W15
T 16	15 34 20	24 ⁰ 56'59	19 ⁴⁴	7 ²⁰	4 ¹⁵	13 ¹⁹	2 ⁴⁷	23 ⁴⁶	9 ⁵⁹	21 ²⁶	23 ⁵³	15 ³¹	16 ³⁸	21 ³³	17 ¹⁹	T 16
F 17	15 38 16	25 ⁰ 54'44	2 ⁸ 19	9 ²⁰	5 ²⁸	13 ⁵⁵	2 ⁴⁰	23 ⁴⁸	9 ⁵⁷	21 ²⁵	23 ⁵⁴	15 ³²	16 ³⁵	21 ⁴⁰	17 ²¹	F 17
S 18	15 42 13	26 ⁰ 52'27	14 ³⁶	11 ¹⁷	6 ⁴¹	14 ³²	2 ³⁴	23 ⁵⁰	9 ⁵⁴	21 ²³	23 ⁵⁵	15 ³⁴	16 ³¹	21 ⁴⁷	17 ²³	S 18
S 19	15 46 9	27 ⁰ 50'09	26 ⁴¹	13 ¹¹	7 ⁵⁴	15 ⁸	2 ²⁷	23 ⁵¹	9 ⁵²	21 ²²	23 ⁵⁵	15 ^R 34	16 ²⁸	21 ⁵³	17 ²⁴	S 19
M20	15 50 6	28 ⁰ 47'50	8 ⁸ 37	15 ³	9 ⁷	15 ⁴⁵	2 ²¹	23 ⁵³	9 ⁴⁹	21 ²⁰	23 ⁵⁶	15 ³⁴	16 ²⁵	22 ⁰	17 ²⁶	M20
T 21	15 54 2	29 ⁰ 45'30	20 ³⁰	16 ⁵²	10 ²⁰	16 ²¹	2 ¹⁵	23 ⁵⁴	9 ⁴⁷	21 ¹⁹	23 ⁵⁷	15 ³³	16 ²²	22 ⁷	17 ²⁸	T 21
W22	15 57 59	0 ^{II} 43'09	2 ^V 24	18 ³⁸	11 ³⁴	16 ⁵⁸	2 ⁹	23 ⁵⁵	9 ⁴⁵	21 ¹⁷	23 ⁵⁸	15 ³¹	16 ¹⁹	22 ¹⁴	17 ²⁹	W22
T 23	16 1 55	1 ⁴⁰ 47	14 ²²	20 ²¹	12 ⁴⁷	17 ³⁴	2 ³	23 ⁵⁷	9 ⁴²	21 ¹⁶	23 ⁵⁸	15 ²⁹	16 ¹⁶	22 ²⁰	17 ³¹	T 23
F 24	16 5 52	2 ³⁸ 24	26 ²⁹	22 ²	14 ⁰	18 ¹¹	1 ⁵⁷	23 ⁵⁸	9 ⁴⁰	21 ¹⁴	23 ⁵⁹	15 ²⁷	16 ¹²	22 ²⁷	17 ³³	F 24
S 25	16 9 49	3 ³⁶ 00	8 ⁸ 46	23 ³⁹	15 ¹³	18 ⁴⁸	1 ⁵²	23 ⁵⁹	9 ³⁷	21 ¹³	24 ⁰	15 ²⁶	16 ⁹	22 ³⁴	17 ³⁴	S 25
S 26	16 13 45	4 ⁰ 33'35	21 ¹⁶	25 ¹³	16 ²⁶	19 ²⁴	1 ⁴⁶	24 ⁰	9 ³⁵	21 ¹¹	24 ¹	15 ²⁴	16 ⁶	22 ⁴¹	17 ³⁵	S 26
M27	16 17 42	5 ⁰ 31'09	4 ^{II} 1	26 ⁴⁴	17 ⁴⁰	20 ¹	1 ⁴¹	24 ⁰	9 ³²	21 ¹⁰	24 ¹	15 ²⁴	16 ³	22 ⁴⁷	17 ³⁷	M27
T 28	16 21 38	6 ⁰ 28'41	16 ⁵⁹	28 ¹²	18 ⁵³	20 ³⁸	1 ³⁶	24 ¹	9 ³⁰	21 ⁸	24 ²	15 ^D 23	16 ⁰	22 ⁵⁴	17 ³⁸	T 28
W29	16 25 35	7 ²⁶ 13	0 ⁵ 13	29 ³⁷	20 ⁶	21 ¹⁴	1 ³⁰	24 ²	9 ²⁷	21 ⁷	24 ²	15 ²⁴	15 ⁵⁶	23 ¹	17 ³⁹	W29
T 30	16 29 31	8 ⁰ 23'44	13 ³⁹	0 ⁵ 59	21 ¹⁹	21 ⁵¹	1 ²⁶	24 ²	9 ²⁵	21 ⁵	24 ³	15 ²⁴	15 ⁵³	23 ⁷	17 ⁴¹	T 30
F 31	16 33 28	9 ^{II} 21'13	27 ⁵ 19	2 ⁵ 18	22 ⁸ 32	22 ⁵ 28	1 ^{II} 21	24 ⁸ 3	9 ⁸ 22	21 ⁸ 4	24 ⁸ 4	15 ^{II} 25	15 ^{II} 50	23 ⁸ 14	17 ⁸ 42	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	decl	lat
W 1	14n59	23n33	0n26	12n35	0s47	4n47	1s38	24n51	1n27	11s43	1n26	14s49	1s3	22s0	0n3	21s49	1n23	16s36	15s22	22n42	22n52	8s44	0s53	4n43			
T 2	15 17	25 1	1 36	13 26	0 37	5 16	1 37	24 50	1 27	11 40	1 26	14 48	1 3	21 59	0 3	21 49	1 23	16 36	15 23	22 42	22 52	8 42	0 52	4 43			
F 3	15 34	25 4	2 42	14 16	0 27	5 44	1 37	24 48	1 27	11 38	1 26	14 47	1 3	21 59	0 3	21 49	1 23	16 36	15 23	22 42	22 52	8 39	0 51	4 43			
S 4	15 52	23 39	3 40	15 6	0 17	6 11	1 37	24 46	1 27	11 35	1 26	14 46	1 3	21 59	0 3	21 49	1 23	16 36	15 23	22 42	22 51	8 36	0 50	4 43			
S 5	16 9	20 49	4 27	15 56	0 6	6 39	1 37	24 45	1 27	11 33	1 26	14 45	1 4	21 58	0 3	21 49	1 23	16 35	15 23	22 42	22 51	8 33	0 49	4 44			
M 6	16 27	16 42	4 58	16 44	0n4	7 7	1 36	24 42	1 27	11 30	1 26	14 45	1 4	21 58	0 3	21 49	1 23	16 35	15 24	22 42	22 51	8 31	0 48	4 44			
T 7	16 43	11 34	5 12	17 31	0 15	7 34	1 36	24 40	1 26	11 28	1 25	14 44	1 4	21 58	0 3	21 49	1 23	16 35	15 24	22 42	22 50	8 28	0 47	4 44			
W 8	17 0	5 43	5 6	18 17	0 25	8 2	1 35	24 38	1 26	11 26	1 25	14 43	1 4	21 57	0 3	21 49	1 23	16 35	15 24	22 42	22 50	8 25	0 46	4 44			
T 9	17 16	0s29	4 40	19 1	0 36	8 29	1 34	24 35	1 26	11 23	1 25	14 42	1 4	21 57	0 3	21 48	1 24	16 35	15 25	22 41	22 50	8 23	0 45	4 44			
F 10	17 32	6 40	3 56	19 43	0 46	8 56	1 34	24 32	1 26	11 21	1 25	14 42	1 5	21 57	0 3	21 48	1 24	16 35	15 25	22 41	22 49	8 20	0 44	4 44			
S 11	17 48	12 28	2 56	20 24	0 56	9 23	1 33	24 30	1 26	11 19	1 25	14 41	1 5	21 57	0 3	21 48	1 24	16 35	15 25	22 41	22 49	8 17	0 43	4 45			
S 12	18 3	17 30	1 46	21 2	1 5	9 50	1 32	24 26	1 26	11 17	1 25	14 41	1 5	21 56	0 3	21 48	1 24	16 35	15 25	22 40	22 49	8 15	0 42	4 45			
M13	18 18	21 26	0 31	21 38	1 15	10 16	1 31	24 23	1 25	11 14	1 25	14 40	1 5	21 56	0 3	21 48	1 24	16 34	15 26	22 40	22 48	8 12	0 41	4 45			
T 14	18 33	24 2	0s44	22 11	1 23	10 42	1 30	24 20	1 25	11 12	1 24	14 40	1 5	21 56	0 3	21 48	1 24	16 34	15 26	22 40	22 48	8 9	0 40	4 45			
W15	18 47	25 12	1 55	22 42	1 31	11 8	1 29	24 16	1 25	11 10	1 24	14 39	1 5	21 55	0 3	21 48	1 24	16 34	15 26	22 40	22 48	8 6	0 39	4 45			
T 16	19 1	24 56	2 58	23 11	1 39	11 34	1 28	24 12	1 25	11 8	1 24	14 39	1 6	21 55	0 3	21 48	1 24	16 34	15 27	22 41	22 47	8 4	0 38	4 45			
F 17	19 15	23 24	3 50	23 37	1 46	11 59	1 27	24 8	1 25	11 6	1 24	14 38	1 6	21 55	0 3	21 48	1 24	16 34	15 27	22 41	22 47	8 1	0 37	4 46			
S 18	19 29	20 47	4 31	24 0	1 52	12 25	1 26	24 4	1 25	11 4	1 24	14 38	1 6	21 54	0 3	21 48	1 24	16 34	15 27	22 41	22 47	7 58	0 36	4 46			
S 19	19 42	17 18	4 58	24 21	1 58	12 49	1 25	24 0	1 24	11 2	1 24	14 37	1 6	21 54	0 3	21 47	1 24	16 34	15 28	22 41	22 47	7 55	0 35	4 46			
M20	19 55	13 11	5 13	24 39	2 2	13 14	1 23	23 56	1 24	11 0	1 23	14 37	1 6	21 53	0 3	21 47	1 24	16 34	15 28	22 41	22 46	7 53	0 34	4 46			
T 21	20 7	8 35	5 14	24 55	2 6	13 38	1 22	23 51	1 24	10 58	1 23	14 37	1 7	21 53	0 3	21 47	1 24	16 34	15 28	22 41	22 46	7 50	0 34	4 46			
W22	20 19	3 40	5 2	25 8	2 10	14 2	1 20	23 46	1 24	10 56	1 23	14 37	1 7	21 53	0 3	21 47	1 24	16 34	15 29	22 41	22 46	7 47	0 33	4 47			
T 23	20 31	1n25	4 36	25 18	2 12	14 26	1 19	23 41	1 24	10 54	1 23	14 36	1 7	21 52	0 3	21 47	1 24	16 34	15 29	22 40	22 45	7 44	0 32	4 47			
F 24	20 43	6 31	3 58	25 27	2 14	14 49	1 17	23 36	1 23	10 52	1 23	14 36	1 7	21 52	0 3	21 47	1 24	16 34	15 29	22 40	22 45	7 42	0 31	4 47			
S 25	20 54	11 27	3 9	25 33	2 14	15 12	1 16	23 31	1 23	10 51	1 22	14 36	1 7	21 52	0 3	21 47	1 24	16 34	15 30	22 40	22 45	7 39	0 30	4 47			
S 26	21 4	16 1	2 9	25 37	2 14	15 35	1 14	23 26	1 23	10 49	1 22	14 36	1 8	21 51	0 3	21 47	1 24	16 34	15 30	22 40	22 44	7 36	0 30	4 47			
M27	21 15	19 57	1 3	25 39	2 14	15 57	1 13	23 20	1 23	10 47	1 22	14 36	1 8	21 51	0 3	21 47	1 24	16 34	15 30	22 40	22 44	7 33	0 29	4 48			
T 28	21 25	22 58	0n9	25 39	2 12	16 19	1 11	23 14	1 23	10 46	1 22	14 36	1 8	21 51	0 3	21 46	1 24	16 34	15 31	22 40	22 44	7 31	0 28	4 48			
W29	21 34	24 49	1 21	25 37	2 9	16 41	1 9	23 8	1 22	10 44	1 22	14 36	1 8	21 50	0 3	21 46	1 24	16 34	15 31	22 40	22 43	7 28	0 28	4 48			
T 30	21 44	25 15	2 30	25 34	2 6	17 2	1 7	23 2	1 22	10 43	1 21	14 36	1 8	21 50	0 3	21 46	1 24	16 35	15 32	22 40	22 43	7 25	0 27	4 48			
F 31	21n53	24n11	3n32	25n29	2n2	17n22	1s5	22n56	1n22	10s41	1n21	14s36	1s8	21s50	0n3	21s46	1n24	16s35	15s32	22n40	22n43	7s22	0s26	4n49			

ASTRODIENST EPHEMERIS for the year 1816
geocentric

JUNE 1816

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 37 25	10II18'41	11II10	3♂33	23♂46	23♂ 4	1°R16	24♂ 3	9°R20	21°R 2	24♂ 4	15II25	15II47	23♂21	17♂43	S 1
S 2	16 41 21	11°16'08	25°11	4°45	24°59	23°41	1II12	24° 3	9♂17	21♂ 0	24° 5	15°26	15°44	23°28	17°44	S 2
M 3	16 45 18	12°13'33	9II19	5°53	26°12	24°18	1° 7	24° 3	9°15	20°59	24° 5	15°R26	15°41	23°34	17°45	M 3
T 4	16 49 14	13°10'58	23°34	6°58	27°25	24°55	1° 3	24°R 3	9°12	20°57	24° 6	15°26	15°37	23°41	17°46	T 4
W 5	16 53 11	14° 8'21	7♂52	8° 0	28°39	25°31	0°59	24° 3	9°10	20°56	24° 6	15°26	15°34	23°48	17°47	W 5
T 6	16 57 7	15° 5'43	22°10	8°58	29°52	26° 8	0°55	24° 3	9° 8	20°54	24° 6	15°D25	15°31	23°54	17°48	T 6
F 7	17 1 4	16° 3'03	6II26	9°52	1II 5	26°45	0°52	24° 3	9° 5	20°52	24° 7	15°25	15°28	24° 1	17°49	F 7
S 8	17 5 0	17° 0'23	20°34	10°43	2°18	27°22	0°48	24° 3	9° 3	20°51	24° 7	15°26	15°25	24° 8	17°49	S 8
S 9	17 8 57	17°57'43	4♂31	11°29	3°32	27°59	0°45	24° 2	9° 0	20°49	24° 8	15°26	15°22	24°15	17°50	S 9
M10	17 12 54	18°55'01	18°14	12°12	4°45	28°36	0°42	24° 2	8°58	20°48	24° 8	15°R26	15°18	24°21	17°51	M10
T 11	17 16 50	19°52'18	1♂41	12°51	5°58	29°12	0°39	24° 1	8°55	20°46	24° 8	15°26	15°15	24°28	17°51	T 11
W12	17 20 47	20°49'36	14°49	13°26	7°11	29°49	0°36	24° 0	8°53	20°44	24° 9	15°25	15°12	24°35	17°52	W12
T 13	17 24 43	21°46'52	27°40	13°56	8°25	0II26	0°33	23°59	8°51	20°43	24° 9	15°25	15° 9	24°42	17°52	T 13
F 14	17 28 40	22°44'08	10♂13	14°22	9°38	1° 3	0°31	23°58	8°48	20°41	24° 9	15°24	15° 6	24°48	17°53	F 14
S 15	17 32 36	23°41'24	22°31	14°44	10°51	1°40	0°28	23°57	8°46	20°39	24° 9	15°23	15° 2	24°55	17°53	S 15
S 16	17 36 33	24°38'39	4♂37	15° 1	12° 5	2°17	0°26	23°56	8°43	20°38	24° 9	15°22	14°59	25° 2	17°53	S 16
M17	17 40 29	25°35'54	16°34	15°14	13°18	2°54	0°24	23°55	8°41	20°36	24°10	15°21	14°56	25° 8	17°53	M17
T 18	17 44 26	26°33'09	28°28	15°22	14°32	3°31	0°22	23°54	8°39	20°35	24°10	15°D21	14°53	25°15	17°54	T 18
W19	17 48 23	27°30'23	10°V22	15°R26	15°45	4° 8	0°21	23°52	8°37	20°33	24°10	15°21	14°50	25°22	17°54	W19
T 20	17 52 19	28°27'37	22°21	15°25	16°58	4°45	0°19	23°51	8°34	20°31	24°10	15°22	14°47	25°29	17°54	T 20
F 21	17 56 16	29°24'52	4♂31	15°19	18°12	5°22	0°18	23°49	8°32	20°30	24°10	15°23	14°43	25°35	17°R54	F 21
S 22	18 0 12	0♂22'06	16°53	15° 9	19°25	5°59	0°17	23°48	8°30	20°28	24°10	15°25	14°40	25°42	17°54	S 22
S 23	18 4 9	1°19'20	29°32	14°55	20°39	6°36	0°16	23°46	8°27	20°27	24°10	15°26	14°37	25°49	17°54	S 23
M24	18 8 5	2°16'34	12II30	14°37	21°52	7°13	0°15	23°44	8°25	20°25	24°R10	15°R26	14°34	25°55	17°54	M24
T 25	18 12 2	3°13'48	25°48	14°15	23° 6	7°50	0°15	23°42	8°23	20°24	24°10	15°26	14°31	26° 2	17°53	T 25
W26	18 15 58	4°11'01	9♂24	13°50	24°19	8°27	0°15	23°40	8°21	20°22	24°10	15°25	14°28	26° 9	17°53	W26
T 27	18 19 55	5° 8'15	23°17	13°21	25°33	9° 4	0°D14	23°38	8°19	20°20	24°10	15°23	14°24	26°16	17°53	T 27
F 28	18 23 52	6° 5'28	7II24	12°50	26°46	9°41	0°14	23°36	8°17	20°19	24°10	15°20	14°21	26°22	17°52	F 28
S 29	18 27 48	7° 2'41	21°40	12°16	28° 0	10°18	0°15	23°33	8°15	20°17	24°10	15°17	14°18	26°29	17°52	S 29
S 30	18 31 45	7♂59'53	6II 1	11♂41	29II13	10II55	0II15	23♂31	8♂13	20♂16	24♂10	15II15	14II15	26♂36	17♂51	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	22n 1	21n38	4n22	25n22	1n57	17n42	1 s 4	22n50	1n22	10s40	1n21	14s36	1 s 9	21s49	0n 3	21s46	1n24	16s35	15s32	22n40	22n42	7s20	0s26	4n49			
S 2	22 9	17 48	4 57	25 14	1 52	18 2	1 2	22 43	1 22	10 38	1 21	14 36	1 9	21 49	0 3	21 46	1 24	16 35	15 33	22 40	22 42	7 17	0 25	4 49			
M 3	22 17	12 56	5 15	25 5	1 45	18 21	1 0	22 37	1 21	10 37	1 20	14 36	1 9	21 48	0 3	21 46	1 24	16 35	15 33	22 40	22 42	7 14	0 24	4 49			
T 4	22 24	7 21	5 14	24 55	1 38	18 40	0 58	22 30	1 21	10 36	1 20	14 36	1 9	21 48	0 3	21 46	1 24	16 35	15 33	22 40	22 41	7 11	0 24	4 49			
W 5	22 31	1 22	4 53	24 43	1 30	18 58	0 56	22 23	1 21	10 35	1 20	14 36	1 9	21 48	0 3	21 46	1 24	16 35	15 34	22 40	22 41	7 8	0 23	4 50			
T 6	22 38	4s43	4 14	24 31	1 21	19 16	0 53	22 16	1 21	10 34	1 20	14 37	1 10	21 47	0 3	21 45	1 24	16 36	15 34	22 40	22 41	7 6	0 23	4 50			
F 7	22 44	10 32	3 20	24 17	1 12	19 34	0 51	22 9	1 20	10 33	1 20	14 37	1 10	21 47	0 3	21 45	1 24	16 36	15 34	22 40	22 40	7 3	0 22	4 50			
S 8	22 50	15 46	2 14	24 3	1 2	19 50	0 49	22 1	1 20	10 32	1 19	14 37	1 10	21 47	0 3	21 45	1 24	16 36	15 35	22 40	22 40	7 0	0 22	4 50			
S 9	22 55	20 5	1 0	23 48	0 51	20 7	0 47	21 54	1 20	10 31	1 19	14 38	1 10	21 46	0 3	21 45	1 24	16 36	15 35	22 40	22 40	6 57	0 21	4 50			
M10	23 0	23 12	0s16	23 33	0 39	20 22	0 45	21 46	1 20	10 30	1 19	14 38	1 10	21 46	0 3	21 45	1 24	16 36	15 36	22 40	22 39	6 54	0 21	4 51			
T 11	23 5	24 56	1 29	23 17	0 27	20 38	0 43	21 38	1 19	10 29	1 19	14 38	1 11	21 46	0 3	21 45	1 24	16 36	15 36	22 40	22 39	6 52	0 20	4 51			
W12	23 9	25 13	2 36	23 1	0 14	20 52	0 40	21 30	1 19	10 28	1 18	14 39	1 11	21 45	0 3	21 45	1 24	16 37	15 36	22 40	22 38	6 49	0 20	4 51			
T 13	23 12	24 8	3 33	22 44	0 0	21 6	0 38	21 22	1 19	10 28	1 18	14 39	1 11	21 45	0 3	21 45	1 24	16 37	15 37	22 40	22 38	6 46	0 20	4 51			
F 14	23 16	21 51	4 19	22 27	0s14	21 20	0 36	21 14	1 19	10 27	1 18	14 40	1 11	21 44	0 3	21 45	1 24	16 37	15 37	22 40	22 38	6 43	0 19	4 52			
S 15	23 19	18 37	4 52	22 11	0 29	21 33	0 33	21 5	1 18	10 26	1 17	14 40	1 11	21 44	0 3	21 45	1 24	16 37	15 37	22 40	22 37	6 40	0 19	4 52			
S 16	23 21	14 39	5 11	21 54	0 44	21 45	0 31	20 57	1 18	10 26	1 17	14 41	1 11	21 44	0 3	21 44	1 24	16 38	15 38	22 40	22 37	6 38	0 19	4 52			
M17	23 23	10 9	5 16	21 37	0 59	21 57	0 29	20 48	1 18	10 25	1 17	14 41	1 12	21 43	0 3	21 44	1 24	16 38	15 38	22 39	22 37	6 35	0 18	4 52			
T 18	23 25	5 19	5 8	21 20	1 15	22 8	0 26	20 39	1 18	10 25	1 17	14 42	1 12	21 43	0 3	21 44	1 24	16 38	15 38	22 39	22 36	6 32	0 18	4 52			
W19	23 26	0 17	4 47	21 4	1 31	22 18	0 24	20 30	1 17	10 25	1 16	14 43	1 12	21 43	0 3	21 44	1 24	16 39	15 39	22 40	22 36	6 29	0 18	4 53			
T 20	23 27	4n48	4 13	20 47	1 48	22 28	0 22	20 21	1 17	10 24	1 16	14 43	1 12	21 42	0 3	21 44	1 24	16 39	15 39	22 40	22 36	6 26	0 18	4 53			
F 21	23 28	9 47	3 27	20 32	2 4	22 37	0 19	20 12	1 17	10 24	1 16	14 44	1 12	21 42	0 3	21 44	1 24	16 39	15 40	22 40	22 35	6 23	0 17	4 53			
S 22	23 28	14 29	2 31	20 17	2 20	22 46	0 17	20 2	1 17	10 24	1 16	14 45	1 13	21 42	0 3	21 44	1 24	16 39	15 40	22 40	22 35	6 21	0 17	4 53			
S 23	23 27	18 40	1 27	20 2	2 36	22 54	0 14	19 53	1 16	10 24	1 15	14 45	1 13	21 41	0 3	21 44	1 24	16 40	15 40	22 40	22 35	6 18	0 17	4 54			
M24	23 27	22 3	0 16	19 48	2 52	23 1	0 12	19 43	1 16	10 24	1 15	14 46	1 13	21 41	0 3	21 44	1 24	16 40	15 41	22 40	22 34	6 15	0 17	4 54			
T 25	23 25	24 21	0n57	19 35	3 8	23 8	0 9	19 33	1 16	10 24	1 15	14 47	1 13	21 41	0 3	21 44	1 24	16 40	15 41	22 40	22 34	6 12	0 17	4 54			
W26	23 24	25 16	2 8	19 23	3 23	23 13	0 7	19 23	1 16	10 24	1 15	14 48	1 13	21 40	0 3	21 43	1 24	16 41	15 41	22 40	22 33	6 9	0 17	4 54			
T 27	23 22	24 38	3 14	19 12	3 37	23 19	0 5	19 13	1 15	10 25	1 14	14 49	1 13	21 40	0 3	21 43	1 24	16 41	15 42	22 40	22 33	6 6	0 17	4 54			
F 28	23 19	22 26	4 8	19 2	3 50	23 23	0 2	19 3	1 15	10 25	1 14	14 50	1 14	21 40	0 3	21 43	1 24	16 42	15 42	22 39	22 33	6 4	0 17	4 55			
S 29	23 17	18 50	4 48	18 53	4 2	23 27	0n 0	18 53	1 15	10 25	1 14	14 51	1 14	21 39	0 3	21 43	1 24	16 42	15 43	22 39	22 32	6 1	0 17	4 55			
S 30	23n13	14n 7	5n10	18n45	4s13	23n30	0n 3	18n42	1n15	10s26	1n13	14s52	1s14	21s39	0n 3	21s43	1n23	16s42	15s43	22n39	22n32	5s58	0s17	4n55			

ASTRODIENST EPHEMERIS for the year 1816

geocentric

JULY 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 35 41	8°57'05	20°21	11°R 5	0°527	11°1232	0°116	23°R28	8°R11	20°R14	24°R10	15°R13	14°12	26°43	17°R51	M 1	
T 2	18 39 38	9°54'17	4°39	10°28	1°40	12°10	0°16	23°26	8°9	20°13	24°10	15°D12	14°8	26°49	17°50	T 2	
W 3	18 43 34	10°51'28	18°50	9°51	2°54	12°47	0°17	23°23	8°7	20°11	24°9	15°12	14°5	26°56	17°50	W 3	
T 4	18 47 31	11°48'39	2°52	9°15	4°7	13°24	0°18	23°20	8°5	20°10	24°9	15°13	14°2	27°3	17°49	T 4	
F 5	18 51 27	12°45'50	16°45	8°40	5°21	14°1	0°20	23°18	8°3	20°8	24°9	15°14	13°59	27°9	17°48	F 5	
S 6	18 55 24	13°43'01	0°27	8°7	6°35	14°38	0°21	23°15	8°1	20°7	24°9	15°16	13°56	27°16	17°47	S 6	
S 7	18 59 21	14°40'12	13°58	7°37	7°48	15°16	0°23	23°12	7°59	20°5	24°8	15°R16	13°53	27°23	17°47	S 7	
M 8	19 3 17	15°37'23	27°17	7°10	9°2	15°53	0°24	23°9	7°57	20°4	24°8	15°16	13°49	27°30	17°46	M 8	
T 9	19 7 14	16°34'34	10°22	6°47	10°16	16°30	0°26	23°6	7°56	20°3	24°8	15°14	13°46	27°36	17°45	T 9	
W10	19 11 10	17°31'45	23°15	6°28	11°29	17°7	0°29	23°3	7°54	20°1	24°8	15°10	13°43	27°43	17°44	W10	
T 11	19 15 7	18°28'57	5°54	6°13	12°43	17°45	0°31	22°59	7°52	20°0	24°7	15°5	13°40	27°50	17°43	T 11	
F 12	19 19 3	19°26'09	18°20	6°3	13°57	18°22	0°33	22°56	7°51	19°58	24°7	15°0	13°37	27°56	17°42	F 12	
S 13	19 23 0	20°23'21	0°33	5°D58	15°10	18°59	0°36	22°53	7°49	19°57	24°6	14°54	13°34	28°3	17°40	S 13	
S 14	19 26 56	21°20'34	12°37	5°58	16°24	19°37	0°39	22°49	7°47	19°56	24°6	14°48	13°30	28°10	17°39	S 14	
M15	19 30 53	22°17'47	24°33	6°3	17°38	20°14	0°42	22°46	7°46	19°54	24°5	14°44	13°27	28°17	17°38	M15	
T 16	19 34 50	23°15'01	6°26	6°14	18°52	20°52	0°45	22°42	7°44	19°53	24°5	14°40	13°24	28°23	17°37	T 16	
W17	19 38 46	24°12'15	18°19	6°31	20°5	21°29	0°48	22°39	7°43	19°52	24°5	14°39	13°21	28°30	17°35	W17	
T 18	19 42 43	25°9'31	0°8	6°54	21°19	22°6	0°52	22°35	7°41	19°51	24°4	14°D39	13°18	28°37	17°34	T 18	
F 19	19 46 39	26°6'47	12°26	7°22	22°33	22°44	0°56	22°31	7°40	19°49	24°3	14°40	13°14	28°44	17°32	F 19	
S 20	19 50 36	27°4'04	24°49	7°55	23°47	23°21	0°59	22°27	7°39	19°48	24°3	14°41	13°11	28°50	17°31	S 20	
S 21	19 54 32	28°1'22	7°31	8°35	25°1	23°59	1°3	22°23	7°37	19°47	24°2	14°42	13°8	28°57	17°29	S 21	
M22	19 58 29	28°58'41	20°36	9°20	26°15	24°36	1°8	22°20	7°36	19°46	24°2	14°R42	13°5	29°4	17°28	M22	
T 23	20 2 25	29°56'00	4°5	10°10	27°29	25°14	1°12	22°16	7°35	19°45	24°1	14°41	13°2	29°10	17°26	T 23	
W24	20 6 22	0°53'21	17°59	11°6	28°42	25°52	1°16	22°12	7°34	19°44	24°1	14°37	12°59	29°17	17°24	W24	
T 25	20 10 19	1°50'42	2°16	12°8	29°56	26°29	1°21	22°8	7°33	19°42	24°0	14°32	12°55	29°24	17°23	T 25	
F 26	20 14 15	2°48'04	16°49	13°15	1°10	27°7	1°26	22°4	7°32	19°41	23°59	14°25	12°52	29°31	17°21	F 26	
S 27	20 18 12	3°45'26	1°32	14°27	2°24	27°44	1°31	21°59	7°31	19°40	23°59	14°17	12°49	29°37	17°19	S 27	
S 28	20 22 8	4°42'49	16°17	15°44	3°38	28°22	1°36	21°55	7°30	19°39	23°58	14°10	12°46	29°44	17°17	S 28	
M29	20 26 5	5°40'13	0°58	17°6	4°52	29°0	1°41	21°51	7°29	19°38	23°57	14°4	12°43	29°51	17°15	M29	
T 30	20 30 1	6°37'37	15°27	18°33	6°6	29°37	1°47	21°47	7°28	19°37	23°56	14°1	12°40	29°57	17°13	T 30	
W31	20 33 58	7°13'50	29°41	20°5	7°12	0°15	1°52	21°42	7°27	19°36	23°56	13°59	12°36	0°4	17°11	W31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n10	8n37	5n13	18n38	4s23	23n33	0n5	18n32	1n14	10s26	1n13	14s53	1s14	21s39	0n3	21s43	1n23
T 2	23 6	2 41	4 56	18 33	4 31	23 35	0 7	18 21	1 14	10 26	1 13	14 54	1 14	21 38	0 3	21 43	1 23
W 3	23 1	3s21	4 22	18 29	4 38	23 36	0 10	18 10	1 14	10 27	1 13	14 55	1 14	21 38	0 3	21 43	1 23
T 4	22 56	9 10	3 32	18 26	4 43	23 36	0 12	17 59	1 13	10 28	1 12	14 56	1 15	21 38	0 3	21 43	1 23
F 5	22 51	14 28	2 30	18 24	4 47	23 36	0 15	17 48	1 13	10 28	1 12	14 57	1 15	21 38	0 3	21 43	1 23
S 6	22 45	18 57	1 20	18 24	4 49	23 35	0 17	17 37	1 13	10 29	1 12	14 58	1 15	21 37	0 3	21 43	1 23
S 7	22 39	22 23	0 7	18 25	4 50	23 33	0 19	17 26	1 13	10 30	1 12	14 59	1 15	21 37	0 3	21 43	1 23
M 8	22 33	24 31	1s5	18 28	4 49	23 31	0 22	17 15	1 12	10 31	1 11	15 0	1 15	21 37	0 3	21 42	1 23
T 9	22 26	25 16	2 13	18 32	4 46	23 28	0 24	17 3	1 12	10 32	1 11	15 1	1 15	21 36	0 3	21 42	1 23
W10	22 19	24 37	3 12	18 37	4 42	23 24	0 26	16 51	1 12	10 33	1 11	15 2	1 16	21 36	0 3	21 42	1 23
T 11	22 11	22 43	4 1	18 43	4 37	23 20	0 28	16 40	1 11	10 34	1 10	15 4	1 16	21 36	0 3	21 42	1 23
F 12	22 3	19 45	4 38	18 50	4 30	23 14	0 31	16 28	1 11	10 35	1 10	15 5	1 16	21 36	0 3	21 42	1 23
S 13	21 55	15 58	5 1	18 58	4 22	23 9	0 33	16 16	1 11	10 36	1 10	15 6	1 16	21 35	0 3	21 42	1 23
S 14	21 46	11 36	5 10	19 7	4 13	23 2	0 35	16 4	1 11	10 37	1 10	15 7	1 16	21 35	0 3	21 42	1 23
M15	21 37	6 50	5 6	19 17	4 3	22 55	0 37	15 52	1 10	10 39	1 9	15 9	1 16	21 35	0 3	21 42	1 23
T 16	21 28	1 51	4 48	19 28	3 52	22 47	0 39	15 40	1 10	10 40	1 9	15 10	1 17	21 35	0 3	21 42	1 23
W17	21 18	3n12	4 19	19 39	3 40	22 38	0 41	15 27	1 10	10 41	1 9	15 11	1 17	21 34	0 3	21 42	1 23
T 18	21 7	8 11	3 37	19 50	3 27	22 29	0 43	15 15	1 9	10 43	1 9	15 13	1 17	21 34	0 3	21 42	1 23
F 19	20 57	12 57	2 46	20 2	3 14	22 19	0 45	15 2	1 9	10 44	1 8	15 14	1 17	21 34	0 3	21 42	1 23
S 20	20 46	17 17	1 46	20 14	3 0	22 9	0 47	14 50	1 9	10 46	1 8	15 15	1 17	21 34	0 3	21 42	1 23
S 21	20 35	20 57	0 39	20 25	2 46	21 58	0 49	14 37	1 8	10 48	1 8	15 17	1 17	21 34	0 3	21 42	1 23
M22	20 23	23 40	0n32	20 37	2 32	21 46	0 51	14 24	1 8	10 49	1 8	15 18	1 17	21 33	0 3	21 42	1 23
T 23	20 11	25 7	1 43	20 48	2 17	21 33	0 53	14 11	1 8	10 51	1 7	15 20	1 18	21 33	0 3	21 41	1 23
W24	19 59	25 3	2 50	20 58	2 2	21 20	0 55	13 58	1 7	10 53	1 7	15 21	1 18	21 33	0 3	21 41	1 23
T 25	19 46	23 22	3 48	21 8	1 47	21 7	0 57	13 45	1 7	10 55	1 7	15 23	1 18	21 33	0 3	21 41	1 23
F 26	19 33	20 8	4 32	21 16	1 32	20 52	0 59	13 32	1 7	10 57	1 6	15 24	1 18	21 33	0 3	21 41	1 23
S 27	19 20	15 36	4 59	21 24	1 18	20 37	1 0	13 19	1 6	10 59	1 6	15 25	1 18	21 33	0 3	21 41	1 23
S 28	19 6	10 7	5 6	21 30	1 3	20 22	1 2	13 5	1 6	11 1	1 6	15 27	1 18	21 32	0 3	21 41	1 23
M29	18 52	4 6	4 53	21 34	0 49	20 6	1 3	12 52	1 6	11 3	1 6	15 28	1 18	21 32	0 3	21 41	1 23
T 30	18 38	2s4	4 22	21 37	0 34	19 49	1 5	12 38	1 6	11 5	1 5	15 30	1 18	21 32	0 3	21 41	1 23
W31	18n24	8s2	3n35	21n37	0s21	19n32	1n6	12n25	1n5	11s7	1n5	15s31	1s19	21s32	0n3	21s41	1n22

Julian Day Number = 2384521.5, Delta T = 16.46 sec
 Ecliptic obliquity = 23°27'49, Nutation = - 0°00'16, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°10'41, Lahiri = 21°17'41

ASTRODIENST EPHEMERIS for the year 1816
geocentric

AUGUST 1816

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	20 37 54	8♌32°28	13♋39	21♊40	8♌34	0♍53	1♎58	21°R38	7°R26	19°R35	23°R55	13°D59	12♋33	0°Y11	17°R 9	T 1
F 2	20 41 51	9°29'54	27°19	23°20	9°48	1°31	2° 4	21°34	7°26	19°34	23°54	13°59	12°30	0°18	17° 7	F 2
S 3	20 45 48	10°27'21	10°44	25° 3	11° 2	2° 8	2°10	21°29	7°25	19°34	23°53	14°R 0	12°27	0°24	17° 5	S 3
S 4	20 49 44	11°24'49	23°54	26°50	12°16	2°46	2°16	21°25	7°24	19°33	23°52	14° 0	12°24	0°31	17° 3	S 4
M 5	20 53 41	12°22'17	6♊51	28°40	13°31	3°24	2°22	21°21	7°24	19°32	23°52	13°57	12°20	0°38	17° 1	M 5
T 6	20 57 37	13°19'47	19°36	0♌33	14°45	4° 2	2°29	21°16	7°23	19°31	23°51	13°53	12°17	0°44	16°59	T 6
W 7	21 1 34	14°17'17	2°11	2°29	15°59	4°40	2°35	21°12	7°23	19°30	23°50	13°45	12°14	0°51	16°56	W 7
T 8	21 5 30	15°14'49	14°36	4°26	17°13	5°17	2°42	21° 7	7°22	19°30	23°49	13°36	12°11	0°58	16°54	T 8
F 9	21 9 27	16°12'21	26°51	6°26	18°27	5°55	2°49	21° 3	7°22	19°29	23°48	13°25	12° 8	1° 5	16°52	F 9
S 10	21 13 24	17° 9'55	8♋57	8°26	19°41	6°33	2°56	20°58	7°21	19°28	23°47	13°13	12° 5	1°11	16°49	S 10
S 11	21 17 20	18° 7'30	20°56	10°27	20°55	7°11	3° 3	20°54	7°21	19°28	23°46	13° 2	12° 1	1°18	16°47	S 11
M12	21 21 17	19° 5'06	2°Y50	12°29	22° 9	7°49	3°10	20°49	7°21	19°27	23°45	12°52	11°58	1°25	16°45	M12
T 13	21 25 13	20° 2'44	14°41	14°32	23°24	8°27	3°17	20°45	7°21	19°26	23°44	12°44	11°55	1°31	16°42	T 13
W14	21 29 10	21° 0'23	26°32	16°34	24°38	9° 5	3°25	20°40	7°21	19°26	23°43	12°39	11°52	1°38	16°40	W14
T 15	21 33 6	21°58'04	8♊28	18°36	25°52	9°43	3°33	20°36	7°20	19°25	23°42	12°36	11°49	1°45	16°37	T 15
F 16	21 37 3	22°55'46	20°34	20°38	27° 6	10°21	3°40	20°31	7°D20	19°25	23°41	12°D36	11°45	1°52	16°35	F 16
S 17	21 40 59	23°53'30	2♋54	22°39	28°20	10°59	3°48	20°27	7°20	19°24	23°40	12°36	11°42	1°58	16°32	S 17
S 18	21 44 56	24°51'16	15°34	24°39	29°35	11°37	3°56	20°22	7°20	19°24	23°39	12°R36	11°39	2° 5	16°30	S 18
M19	21 48 52	25°49'04	28°38	26°38	0♍49	12°16	4° 4	20°18	7°21	19°23	23°38	12°35	11°36	2°12	16°27	M19
T 20	21 52 49	26°46'53	12♊10	28°37	2° 3	12°54	4°13	20°13	7°21	19°23	23°37	12°32	11°33	2°18	16°24	T 20
W21	21 56 46	27°44'44	26°11	0♍34	3°18	13°32	4°21	20° 9	7°21	19°23	23°36	12°27	11°30	2°25	16°22	W21
T 22	22 0 42	28°42'36	10♌39	2°30	4°32	14°10	4°29	20° 5	7°21	19°22	23°35	12°19	11°26	2°32	16°19	T 22
F 23	22 4 39	29°40'30	25°29	4°25	5°46	14°49	4°38	20° 0	7°22	19°22	23°34	12° 9	11°23	2°39	16°16	F 23
S 24	22 8 35	0♍38'26	10♍33	6°19	7° 1	15°27	4°47	19°56	7°22	19°22	23°33	11°58	11°20	2°45	16°14	S 24
S 25	22 12 32	1°36'23	25°41	8°11	8°15	16° 5	4°56	19°51	7°22	19°21	23°32	11°47	11°17	2°52	16°11	S 25
M26	22 16 28	2°34'21	10♌43	10° 2	9°29	16°43	5° 4	19°47	7°23	19°21	23°31	11°38	11°14	2°59	16° 8	M26
T 27	22 20 25	3°32'21	25°30	11°52	10°44	17°22	5°13	19°43	7°23	19°21	23°30	11°32	11°11	3° 5	16° 6	T 27
W28	22 24 21	4°30'22	9♋56	13°41	11°58	18° 0	5°23	19°38	7°24	19°21	23°28	11°28	11° 7	3°12	16° 3	W28
T 29	22 28 18	5°28'24	23°59	15°28	13°12	18°39	5°32	19°34	7°25	19°21	23°27	11°27	11° 4	3°19	16° 0	T 29
F 30	22 32 15	6°26'28	7♊38	17°14	14°27	19°17	5°41	19°30	7°25	19°21	23°26	11°26	11° 1	3°26	15°57	F 30
S 31	22 36 11	7♍24'34	20♊55	18♍59	15♍41	19♍56	5♋51	19°26	7♊26	19♊21	23°25	11°26	10°58	3°Y32	15°54	S 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	18n 9	13s29		2n35	21n36	0s 7	19n14	1n 8	12n11	1n 5	11s 9	1n 5	15s33	1s19	21s32	0n 3	21s41	1n22	16s58	15s54	22n30	22n19	4s26	0s28	5n 1
F 2	17 54	18 9	1 28	21 32	0n 5	18 55	1 9	11 57	1 5	11 11	1 5	15 34	1 19	21 32	0 2	21 41	1 22	16 59	15 54	22 30	22 19	4 23	0 28	5 1	
S 3	17 38	21 47	0 18	21 26	0 18	18 37	1 11	11 43	1 4	11 14	1 5	15 36	1 19	21 32	0 2	21 41	1 22	16 59	15 54	22 30	22 19	4 20	0 29	5 1	
S 4	17 22	24 12	0s53	21 17	0 29	18 17	1 12	11 29	1 4	11 16	1 4	15 37	1 19	21 32	0 2	21 41	1 22	17 0	15 54	22 30	22 18	4 17	0 30	5 1	
M 5	17 6	25 16	1 59	21 6	0 40	17 57	1 13	11 15	1 3	11 18	1 4	15 39	1 19	21 32	0 2	21 41	1 22	17 0	15 55	22 30	22 18	4 14	0 31	5 1	
T 6	16 50	24 58	2 58	20 52	0 50	17 37	1 14	11 1	1 3	11 21	1 4	15 40	1 19	21 31	0 2	21 41	1 22	17 1	15 55	22 29	22 17	4 11	0 31	5 1	
W 7	16 34	23 23	3 47	20 35	0 59	17 16	1 16	10 47	1 3	11 23	1 4	15 42	1 19	21 31	0 2	21 41	1 22	17 1	15 55	22 28	22 17	4 8	0 32	5 1	
T 8	16 17	20 42	4 25	20 16	1 8	16 54	1 17	10 33	1 2	11 26	1 3	15 44	1 19	21 31	0 2	21 41	1 22	17 2	15 55	22 27	22 17	4 5	0 33	5 1	
F 9	16 0	17 7	4 50	19 54	1 15	16 33	1 18	10 19	1 2	11 28	1 3	15 45	1 19	21 31	0 2	21 41	1 22	17 3	15 56	22 26	22 16	4 2	0 34	5 1	
S 10	15 42	12 53	5 2	19 30	1 22	16 10	1 19	10 4	1 2	11 31	1 3	15 47	1 20	21 31	0 2	21 41	1 22	17 3	15 56	22 25	22 16	3 59	0 35	5 1	
S 11	15 25	8 11	5 0	19 3	1 28	15 47	1 19	9 50	1 1	11 34	1 3	15 48	1 20	21 31	0 2	21 41	1 22	17 4	15 56	22 23	22 15	3 56	0 35	5 2	
M12	15 7	3 13	4 45	18 34	1 33	15 24	1 20	9 35	1 1	11 36	1 2	15 50	1 20	21 31	0 2	21 41	1 22	17 4	15 56	22 22	22 15	3 53	0 36	5 2	
T 13	14 49	1n50	4 17	18 2	1 37	15 1	1 21	9 21	1 1	11 39	1 2	15 51	1 20	21 31	0 2	21 41	1 22	17 5	15 57	22 21	22 14	3 50	0 37	5 2	
W14	14 31	6 51	3 39	17 29	1 40	14 37	1 22	9 6	1 0	11 42	1 2	15 53	1 20	21 31	0 2	21 41	1 22	17 6	15 57	22 20	22 14	3 47	0 38	5 2	
T 15	14 12	11 39	2 51	16 54	1 43	14 12	1 22	8 52	1 0	11 44	1 2	15 54	1 20	21 31	0 2	21 41	1 22	17 6	15 57	22 20	22 14	3 45	0 39	5 2	
F 16	13 53	16 4	1 54	16 17	1 45	13 47	1 23	8 37	1 0	11 47	1 2	15 56	1 20	21 31	0 2	21 41	1 22	17 7	15 57	22 20	22 13	3 42	0 40	5 2	
S 17	13 34	19 55	0 51	15 39	1 46	13 22	1 24	8 22	0 59	11 50	1 1	15 57	1 20	21 31	0 2	21 41	1 22	17 7	15 57	22 20	22 13	3 39	0 41	5 2	
S 18	13 15	22 57	0n16	14 59	1 46	12 57	1 24	8 7	0 59	11 53	1 1	15 59	1 20	21 31	0 2	21 41	1 22	17 8	15 58	22 20	22 12	3 36	0 42	5 2	
M19	12 56	24 51	1 24	14 18	1 46	12 31	1 24	7 52	0 59	11 56	1 1	16 0	1 20	21 31	0 2	21 41	1 22	17 8	15 58	22 20	22 12	3 33	0 43	5 2	
T 20	12 36	25 24	2 30	13 36	1 45	12 4	1 25	7 37	0 58	11 59	1 1	16 2	1 20	21 31	0 2	21 41	1 22	17 9	15 58	22 19	22 11	3 30	0 44	5 2	
W21	12 16	24 21	3 29	12 53	1 43	11 38	1 25	7 22	0 58	12 2	1 0	16 3	1 20	21 31	0 2	21 41	1 21	17 10	15 58	22 19	22 11	3 27	0 45	5 2	
T 22	11 56	21 42	4 17	12 10	1 41	11 11	1 25	7 7	0 57	12 5	1 0	16 5	1 20	21 31	0 2	21 41	1 21	17 10	15 58	22 18	22 11	3 24	0 46	5 2	
F 23	11 36	17 33	4 48	11 25	1 38	10 44	1 25	6 52	0 57	12 8	1 0	16 6	1 20	21 31	0 2	21 41	1 21	17 11	15 59	22 16	22 10	3 21	0 47	5 2	
S 24	11 15	12 15	5 1	10 40	1 35	10 16	1 25	6 37	0 57	12 11	1 0	16 8	1 21	21 32	0 2	21 41	1 21	17 11	15 59	22 15	22 10	3 18	0 48	5 2	
S 25	10 55	6 11	4 52	9 55	1 31	9 48	1 25	6 22	0 56	12 14	1 0	16 9	1 21	21 32	0 2	21 41	1 21	17 12	15 59	22 13	22 9	3 15	0 49	5 2	
M26	10 34	0s13	4 23	9 9	1 27	9 20	1 25	6 6	0 56	12 18	0 59	16 10	1 21	21 32	0 2	21 41	1 21	17 13	15 59	22 12	22 8	3 12	0 50	5 2	
T 27	10 13	6 30	3 37	8 23	1 23	8 52	1 25	5 51	0 56	12 21	0 59	16 12	1 21	21 32	0 2	21 41	1 21	17 13	15 59	22 11	22 8	3 9	0 51	5 2	
W28	9 52	12 18	2 38	7 37	1 18	8 23	1 25	5 36	0 55	12 24	0 59	16 13	1 21	21 32	0 2	21 41	1 21	17 14	15 59	22 11	22 8	3 6	0 52	5 2	
T 29	9 31	17 19	1 31	6 51	1 13	7 55	1 25	5 20	0 55	12 27	0 59	16 15	1 21	21 32	0 2	21 41	1 21	17 14	15 59	22 11	22 8	3 3	0 53	5 2	
F 30	9 9	21 16	0 20	6 5	1 7	7 26	1 24	5 5	0 54	12 31	0 59	16 16	1 21	21 32	0 2	21 41	1 21	17 15	16 0	22 11	22 7	3 0	0 54	5 2	
S 31	8n48	23s59	0s50	5n18	1n 1	6n56	1n24	4n49	0n54	12s34	0n58	16s17	1s21	21s32	0n 2	21s41	1n21	17s15	16s 0	22n11	22n 7	2s57	0s55	5n 2	

ASTRODIENST EPHEMERIS for the year 1816
geocentric

SEPTEMBER 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 40 8	8♍22'40	3♌54	20♍42	16♍55	20♍34	6♍0	19°R22	7♌27	19°D21	23°R24	11°R25	10♍55	3♍39	15°R52	S 1
M 2	22 44 4	9°20'48	16°37	22°24	18°10	21°13	6°10	19°17	7°28	19°21	23°23	11°22	10°51	3°46	15°49	M 2
T 3	22 48 1	10°18'58	29° 7	24° 6	19°24	21°51	6°20	19°13	7°28	19°21	23°21	11°15	10°48	3°52	15°46	T 3
W 4	22 51 57	11°17'09	11°27	25°45	20°39	22°30	6°30	19° 9	7°29	19°21	23°20	11° 6	10°45	3°59	15°43	W 4
T 5	22 55 54	12°15'22	23°39	27°24	21°53	23° 8	6°40	19° 5	7°30	19°21	23°19	10°55	10°42	4° 6	15°40	T 5
F 6	22 59 50	13°13'37	5♌43	29° 2	23° 7	23°47	6°50	19° 2	7°31	19°21	23°18	10°41	10°39	4°13	15°37	F 6
S 7	23 3 47	14°11'53	17°42	0♌38	24°22	24°26	7° 0	18°58	7°33	19°21	23°17	10°27	10°36	4°19	15°35	S 7
S 8	23 7 44	15°10'11	29°37	2°13	25°36	25° 4	7°10	18°54	7°34	19°22	23°16	10°13	10°32	4°26	15°32	S 8
M 9	23 11 40	16° 8'31	11°29	3°47	26°51	25°43	7°20	18°50	7°35	19°22	23°14	10° 1	10°29	4°33	15°29	M 9
T 10	23 15 37	17° 6'52	23°19	5°20	28° 5	26°22	7°31	18°46	7°36	19°22	23°13	9°52	10°26	4°39	15°26	T 10
W11	23 19 33	18° 5'16	5♌10	6°52	29°19	27° 0	7°41	18°43	7°37	19°22	23°12	9°45	10°23	4°46	15°23	W11
T 12	23 23 30	19° 3'42	17° 7	8°23	0♌34	27°39	7°52	18°39	7°39	19°23	23°11	9°40	10°20	4°53	15°20	T 12
F 13	23 27 26	20° 2'10	29°11	9°52	1°48	28°18	8° 2	18°36	7°40	19°23	23°10	9°39	10°17	5° 0	15°18	F 13
S 14	23 31 23	21° 0'41	11°29	11°21	3° 3	28°57	8°13	18°32	7°41	19°24	23° 8	9°D38	10°13	5° 6	15°15	S 14
S 15	23 35 19	21°59'13	24° 6	12°48	4°17	29°36	8°24	18°29	7°43	19°24	23° 7	9°R38	10°10	5°13	15°12	S 15
M16	23 39 16	22°57'48	7♌5	14°15	5°32	0♌15	8°35	18°26	7°44	19°25	23° 6	9°38	10° 7	5°20	15° 9	M16
T 17	23 43 13	23°56'25	20°32	15°40	6°46	0°54	8°46	18°22	7°46	19°25	23° 5	9°35	10° 4	5°26	15° 6	T 17
W18	23 47 9	24°55'04	4♌28	17° 4	8° 1	1°33	8°57	18°19	7°48	19°26	23° 3	9°30	10° 1	5°33	15° 4	W18
T 19	23 51 6	25°53'46	18°54	18°26	9°15	2°12	9° 8	18°16	7°49	19°26	23° 2	9°23	9°57	5°40	15° 1	T 19
F 20	23 55 2	26°52'29	3♍45	19°48	10°30	2°51	9°19	18°13	7°51	19°27	23° 1	9°14	9°54	5°46	14°58	F 20
S 21	23 58 59	27°51'15	18°56	21° 8	11°44	3°30	9°31	18°10	7°53	19°27	23° 0	9° 3	9°51	5°53	14°55	S 21
S 22	0 2 55	28°50'02	4♌15	22°27	12°58	4° 9	9°42	18° 7	7°55	19°28	22°59	8°53	9°48	6° 0	14°53	S 22
M23	0 6 52	29°48'52	19°30	23°45	14°13	4°48	9°54	18° 4	7°57	19°29	22°57	8°44	9°45	6° 7	14°50	M23
T 24	0 10 48	0♌47'43	4♍32	25° 1	15°27	5°27	10° 5	18° 2	7°58	19°30	22°56	8°38	9°42	6°13	14°47	T 24
W25	0 14 45	1°46'37	19°13	26°16	16°42	6° 7	10°17	17°59	8° 0	19°30	22°55	8°34	9°38	6°20	14°44	W25
T 26	0 18 42	2°45'32	3♌27	27°29	17°56	6°46	10°28	17°57	8° 2	19°31	22°54	8°D33	9°35	6°27	14°42	T 26
F 27	0 22 38	3°44'29	17°13	28°40	19°11	7°25	10°40	17°54	8° 4	19°32	22°53	8°33	9°32	6°33	14°39	F 27
S 28	0 26 35	4°43'27	0♌34	29°50	20°25	8° 5	10°52	17°52	8° 6	19°33	22°51	8°R34	9°29	6°40	14°36	S 28
S 29	0 30 31	5°42'28	13°31	0♍57	21°40	8°44	11° 4	17°49	8° 9	19°34	22°50	8°33	9°26	6°47	14°34	S 29
M30	0 34 28	6♌41'30	26♌9	2♍3	22°54	9°23	11♍15	17°47	8°11	19°35	22°49	8♍31	9♍22	6°54	14°31	M30

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
S 1	8n26	25s20	1s56	4n32	0n55	6n27	1n24	4n34	0n54	12s37	0n58	16s19	1s21	21s32	0n 2	21s42	1n21	17s16	16s 0	22n10	22n 6	2s54	0s56	5n 2	
M 2	8 4	25 19	2 54	3 46	0 49	5 58	1 23	4 18	0 53	12 41	0 58	16 20	1 21	21 33	0 2	21 42	1 21	17 17	16 0	22 10	22 6	2 51	0 57	5 2	
T 3	7 42	24 0	3 43	3 0	0 43	5 28	1 23	4 3	0 53	12 44	0 58	16 21	1 21	21 33	0 2	21 42	1 21	17 17	16 0	22 9	22 5	2 48	0 58	5 2	
W 4	7 20	21 32	4 21	2 14	0 36	4 58	1 22	3 47	0 52	12 47	0 58	16 22	1 21	21 33	0 2	21 42	1 21	17 18	16 0	22 8	22 5	2 45	1 0	5 2	
T 5	6 58	18 9	4 46	1 29	0 29	4 28	1 21	3 31	0 52	12 51	0 58	16 24	1 21	21 33	0 2	21 42	1 21	17 18	16 0	22 6	22 4	2 42	1 1	5 2	
F 6	6 36	14 2	4 58	0 43	0 22	3 58	1 20	3 16	0 52	12 54	0 57	16 25	1 21	21 33	0 2	21 42	1 21	17 19	16 0	22 4	22 4	2 39	1 2	5 2	
S 7	6 13	9 25	4 57	0s 2	0 15	3 28	1 20	3 0	0 51	12 58	0 57	16 26	1 21	21 33	0 2	21 42	1 21	17 19	16 0	22 2	22 4	2 36	1 3	5 2	
S 8	5 51	4 28	4 43	0 46	0 7	2 57	1 19	2 44	0 51	13 1	0 57	16 27	1 21	21 34	0 2	21 42	1 21	17 20	16 1	22 0	22 3	2 33	1 4	5 2	
M 9	5 28	0n37	4 16	1 30	0s 0	2 27	1 18	2 29	0 50	13 5	0 57	16 29	1 21	21 34	0 2	21 42	1 20	17 20	16 1	21 59	22 3	2 30	1 5	5 2	
T 10	5 6	5 41	3 39	2 14	0 8	1 56	1 17	2 13	0 50	13 8	0 57	16 30	1 21	21 34	0 2	21 42	1 20	17 21	16 1	21 57	22 2	2 27	1 6	5 2	
W11	4 43	10 34	2 51	2 58	0 15	1 25	1 16	1 57	0 50	13 12	0 56	16 31	1 21	21 34	0 2	21 42	1 20	17 21	16 1	21 56	22 2	2 24	1 8	5 2	
T 12	4 20	15 6	1 56	3 41	0 23	0 55	1 14	1 41	0 49	13 15	0 56	16 32	1 21	21 34	0 2	21 42	1 20	17 22	16 1	21 55	22 1	2 21	1 9	5 2	
F 13	3 57	19 6	0 55	4 23	0 31	0 24	1 13	1 25	0 49	13 19	0 56	16 33	1 21	21 35	0 2	21 42	1 20	17 23	16 1	21 55	22 1	2 18	1 10	5 1	
S 14	3 34	22 21	0n10	5 5	0 38	0s 7	1 12	1 10	0 48	13 23	0 56	16 34	1 21	21 35	0 2	21 42	1 20	17 23	16 1	21 55	22 0	2 15	1 11	5 1	
S 15	3 11	24 36	1 16	5 46	0 46	0 37	1 11	0 54	0 48	13 26	0 56	16 35	1 21	21 35	0 2	21 43	1 20	17 24	16 1	21 55	22 0	2 12	1 12	5 1	
M16	2 48	25 36	2 20	6 27	0 54	1 8	1 9	0 38	0 48	13 30	0 56	16 36	1 21	21 35	0 2	21 43	1 20	17 24	16 1	21 55	21 59	2 9	1 13	5 1	
T 17	2 25	25 10	3 19	7 7	1 2	1 39	1 8	0 22	0 47	13 34	0 56	16 37	1 21	21 36	0 2	21 43	1 20	17 25	16 1	21 55	21 59	2 6	1 15	5 1	
W18	2 1	23 10	4 8	7 47	1 10	2 10	1 6	0 6	0 47	13 37	0 55	16 38	1 21	21 36	0 2	21 43	1 20	17 25	16 1	21 54	21 58	2 3	1 16	5 1	
T 19	1 38	19 39	4 43	8 26	1 18	2 41	1 5	0s10	0 46	13 41	0 55	16 39	1 21	21 36	0 2	21 43	1 20	17 26	16 1	21 53	21 58	2 0	1 17	5 1	
F 20	1 15	14 48	5 0	9 4	1 25	3 11	1 3	0 26	0 46	13 45	0 55	16 40	1 21	21 37	0 2	21 43	1 20	17 26	16 1	21 51	21 58	1 57	1 18	5 1	
S 21	0 51	8 56	4 57	9 41	1 33	3 42	1 2	0 42	0 45	13 48	0 55	16 41	1 21	21 37	0 2	21 43	1 20	17 26	16 1	21 50	21 57	1 54	1 19	5 1	
S 22	0 28	2 29	4 33	10 18	1 41	4 13	1 0	0 58	0 45	13 52	0 55	16 42	1 21	21 37	0 2	21 43	1 20	17 27	16 1	21 48	21 57	1 51	1 21	5 0	
M23	0 4	4s 6	3 49	10 54	1 48	4 43	0 58	1 14	0 45	13 56	0 55	16 43	1 21	21 37	0 2	21 43	1 20	17 27	16 1	21 47	21 56	1 48	1 22	5 0	
T 24	0s19	10 22	2 50	11 29	1 56	5 14	0 56	1 30	0 44	14 0	0 54	16 44	1 21	21 38	0 2	21 43	1 20	17 28	16 1	21 46	21 56	1 45	1 23	5 0	
W25	0 42	15 56	1 41	12 3	2 3	5 44	0 54	1 46	0 44	14 3	0 54	16 44	1 21	21 38	0 2	21 44	1 20	17 28	16 1	21 45	21 55	1 42	1 24	5 0	
T 26	1 6	20 25	0 27	12 36	2 10	6 14	0 53	2 2	0 43	14 7	0 54	16 45	1 21	21 38	0 2	21 44	1 20	17 29	16 1	21 45	21 55	1 39	1 25	5 0	
F 27	1 29	23 37	0s46	13 9	2 17	6 44	0 51	2 17	0 43	14 11	0 54	16 46	1 21	21 39	0 2	21 44	1 20	17 29	16 1	21 45	21 54	1 36	1 26	5 0	
S 28	1 53	25 22	1 55	13 40	2 24	7 14	0 49	2 33	0 42	14 15	0 54	16 46	1 21	21 39	0 2	21 44	1 20	17 30	16 1	21 45	21 54	1 33	1 28	5 0	
S 29	2 16	25 41	2 55	14 10	2 30	7 44	0 47	2 49	0 42	14 19	0 54	16 47	1 21	21 39	0 2	21 44	1 19	17 30	16 1	21 45	21 53	1 30	1 29	4 59	
M30	2s40	24s38	3s45	14s39	2s37	8s14	0n44	3s 5	0n42	14s22	0n54	16s48	1s21	21s40	0n 2	21s44	1n19	17s30	16s 1	21n45	21n53	1s27	1s30	4n59	

ASTRODIENST EPHEMERIS for the year 1816
geocentric

OCTOBER 1816

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 38 24	7♏40'34	8♏32	3♏6	24♏9	10♏3	11♏27	17°R45	8♏13	19♏36	22°R48	8°R27	9♏19	7°Y0	14°R29	T 1
W 2	0 42 21	8°39'40	20°43	4°7	25°23	10°42	11°39	17♏43	8°15	19°37	22°R47	8♏20	9°16	7°7	14°R26	W 2
T 3	0 46 17	9°38'47	2♏46	5°6	26°38	11°22	11°52	17°41	8°18	19°38	22°46	8°11	9°13	7°14	14°24	T 3
F 4	0 50 14	10°37'57	14°43	6°2	27°52	12°1	12°4	17°39	8°20	19°39	22°44	8°1	9°10	7°20	14°21	F 4
S 5	0 54 11	11°37'08	26°37	6°54	29°7	12°41	12°16	17°38	8°22	19°40	22°43	7°50	9°7	7°27	14°19	S 5
S 6	0 58 7	12°36'21	8°Y29	7°44	0♏21	13°20	12°28	17°36	8°25	19°41	22°42	7°39	9°3	7°34	14°16	S 6
M 7	1 2 4	13°35'37	20°20	8°29	1°35	14°0	12°40	17°34	8°27	19°42	22°41	7°29	9°0	7°41	14°14	M 7
T 8	1 6 0	14°34'54	2♏13	9°11	2°50	14°40	12°53	17°33	8°30	19°43	22°40	7°22	8°57	7°47	14°12	T 8
W 9	1 9 57	15°34'14	14°9	9°48	4°4	15°19	13°5	17°32	8°32	19°45	22°39	7°17	8°54	7°54	14°9	W 9
T 10	1 13 53	16°33'36	26°11	10°21	5°19	15°59	13°17	17°30	8°35	19°46	22°38	7°14	8°51	8°1	14°7	T 10
F 11	1 17 50	17°33'00	8♏21	10°48	6°33	16°39	13°30	17°29	8°37	19°47	22°37	7°D13	8°48	8°7	14°5	F 11
S 12	1 21 46	18°32'26	20°42	11°10	7°48	17°19	13°42	17°28	8°40	19°48	22°36	7°14	8°44	8°14	14°3	S 12
S 13	1 25 43	19°31'55	3♏20	11°25	9°2	17°58	13°55	17°27	8°43	19°50	22°35	7°15	8°41	8°21	14°0	S 13
M14	1 29 39	20°31'26	16°17	11°34	10°17	18°38	14°8	17°26	8°45	19°51	22°33	7°R16	8°38	8°27	13°58	M14
T 15	1 33 36	21°31'00	29°37	11°R35	11°31	19°18	14°20	17°26	8°48	19°52	22°32	7°16	8°35	8°34	13°56	T 15
W16	1 37 33	22°30'35	13♏23	11°29	12°45	19°58	14°33	17°25	8°51	19°54	22°31	7°14	8°32	8°41	13°54	W16
T 17	1 41 29	23°30'13	27°37	11°14	14°0	20°38	14°46	17°24	8°54	19°55	22°30	7°10	8°28	8°48	13°52	T 17
F 18	1 45 26	24°29'53	12♏16	10°51	15°14	21°18	14°58	17°24	8°57	19°57	22°29	7°5	8°25	8°54	13°50	F 18
S 19	1 49 22	25°29'36	27°15	10°19	16°29	21°58	15°11	17°23	8°59	19°58	22°28	6°58	8°22	9°1	13°48	S 19
S 20	1 53 19	26°29'20	12♏26	9°39	17°43	22°38	15°24	17°23	9°2	20°0	22°27	6°52	8°19	9°8	13°46	S 20
M21	1 57 15	27°29'07	27°40	8°49	18°58	23°18	15°37	17°23	9°5	20°1	22°26	6°47	8°16	9°14	13°45	M21
T 22	2 1 12	28°28'56	12♏45	7°52	20°12	23°59	15°50	17°D23	9°8	20°3	22°26	6°43	8°13	9°21	13°43	T 22
W23	2 5 8	29°28'46	27°33	6°47	21°26	24°39	16°3	17°23	9°11	20°4	22°25	6°41	8°9	9°28	13°41	W23
T 24	2 9 5	0♏28'39	11♏57	5°37	22°41	25°19	16°16	17°23	9°14	20°6	22°24	6°D41	8°6	9°34	13°39	T 24
F 25	2 13 2	1°28'33	25°53	4°22	23°55	25°59	16°29	17°23	9°17	20°7	22°23	6°42	8°3	9°41	13°38	F 25
S 26	2 16 58	2°28'29	9♏22	3°6	25°10	26°40	16°42	17°24	9°20	20°9	22°22	6°43	8°0	9°48	13°36	S 26
S 27	2 20 55	3°28'27	22°25	1°49	26°24	27°20	16°55	17°24	9°24	20°11	22°21	6°45	7°57	9°55	13°34	S 27
M28	2 24 51	4°28'26	5♏6	0°35	27°38	28°0	17°8	17°25	9°27	20°12	22°20	6°R45	7°54	10°1	13°33	M28
T 29	2 28 48	5°28'27	17°29	29♏26	28°53	28°41	17°21	17°25	9°30	20°14	22°19	6°44	7°50	10°8	13°31	T 29
W30	2 32 44	6°28'29	29°38	28°24	0♏7	29°21	17°34	17°26	9°33	20°16	22°19	6°42	7°47	10°15	13°30	W30
T 31	2 36 41	7♏28'33	11♏37	27♏31	1♏21	0♏2	17♏47	17♏27	9♏36	20♏18	22♏18	6♏39	7♏44	10°Y21	13♏29	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
T 1	3s 3	22s24	4s24	15s 6	2s43	8s43	0n42	3s21	0n41	14s26	0n53	16s48	1s21	21s40	0n 2	21s44	1n19	17s31	16s 0	21n44	21n52	1s24	1s31	4n59					
W 2	3 26	19 11	4 50	15 33	2 48	9 12	0 40	3 37	0 41	14 30	0 53	16 49	1 21	21 41	0 2	21 44	1 19	17 31	16 0	21 43	21 52	1 21	1 32	4 59					
T 3	3 50	15 12	5 3	15 58	2 54	9 41	0 38	3 53	0 40	14 34	0 53	16 50	1 21	21 41	0 2	21 44	1 19	17 32	16 0	21 42	21 51	1 18	1 33	4 59					
F 4	4 13	10 40	5 2	16 21	2 59	10 10	0 36	4 9	0 40	14 38	0 53	16 50	1 21	21 41	0 2	21 45	1 19	17 32	16 0	21 40	21 51	1 15	1 34	4 58					
S 5	4 36	5 45	4 48	16 43	3 4	10 39	0 33	4 25	0 39	14 42	0 53	16 51	1 20	21 42	0 2	21 45	1 19	17 32	16 0	21 38	21 50	1 12	1 36	4 58					
S 6	4 59	0 39	4 22	17 4	3 8	11 7	0 31	4 40	0 39	14 45	0 53	16 51	1 20	21 42	0 2	21 45	1 19	17 33	16 0	21 36	21 50	1 9	1 37	4 58					
M 7	5 22	4n30	3 44	17 22	3 11	11 35	0 29	4 56	0 38	14 49	0 53	16 51	1 20	21 42	0 2	21 45	1 19	17 33	16 0	21 35	21 49	1 6	1 38	4 58					
T 8	5 45	9 30	2 57	17 38	3 15	12 3	0 26	5 12	0 38	14 53	0 53	16 52	1 20	21 43	0 2	21 45	1 19	17 33	16 0	21 34	21 49	1 3	1 39	4 58					
W 9	6 8	14 11	2 1	17 53	3 17	12 31	0 24	5 28	0 37	14 57	0 52	16 52	1 20	21 43	0 2	21 45	1 19	17 34	16 0	21 33	21 48	1 0	1 40	4 57					
T 10	6 31	18 22	0 59	18 5	3 19	12 58	0 22	5 44	0 37	15 1	0 52	16 53	1 20	21 44	0 2	21 45	1 19	17 34	15 59	21 32	21 48	0 57	1 41	4 57					
F 11	6 54	21 49	0n 6	18 14	3 20	13 25	0 19	5 59	0 36	15 5	0 52	16 53	1 20	21 44	0 2	21 46	1 19	17 34	15 59	21 32	21 47	0 54	1 42	4 57					
S 12	7 16	24 20	1 12	18 21	3 20	13 52	0 17	6 15	0 36	15 8	0 52	16 53	1 20	21 45	0 2	21 46	1 19	17 35	15 59	21 32	21 47	0 51	1 43	4 57					
S 13	7 39	25 42	2 16	18 25	3 19	14 18	0 14	6 31	0 36	15 12	0 52	16 53	1 20	21 45	0 2	21 46	1 19	17 35	15 59	21 33	21 46	0 48	1 44	4 56					
M14	8 1	25 42	3 15	18 26	3 16	14 44	0 12	6 46	0 35	15 16	0 52	16 54	1 20	21 45	0 2	21 46	1 19	17 35	15 59	21 33	21 46	0 45	1 45	4 56					
T 15	8 24	24 15	4 5	18 23	3 13	15 10	0 9	7 2	0 35	15 20	0 52	16 54	1 20	21 46	0 2	21 46	1 19	17 35	15 59	21 33	21 45	0 42	1 46	4 56					
W16	8 46	21 20	4 43	18 17	3 8	15 35	0 6	7 17	0 34	15 24	0 52	16 54	1 20	21 46	0 2	21 46	1 19	17 36	15 59	21 32	21 45	0 39	1 47	4 56					
T 17	9 8	17 5	5 5	18 6	3 2	16 0	0 4	7 33	0 34	15 28	0 52	16 54	1 20	21 47	0 2	21 46	1 19	17 36	15 58	21 32	21 44	0 36	1 48	4 55					
F 18	9 30	11 42	5 8	17 51	2 54	16 24	0 1	7 48	0 33	15 31	0 52	16 54	1 20	21 47	0 2	21 47	1 19	17 36	15 58	21 31	21 44	0 33	1 49	4 55					
S 19	9 52	5 32	4 50	17 32	2 45	16 48	0s 1	8 4	0 33	15 35	0 51	16 54	1 20	21 48	0 2	21 47	1 19	17 36	15 58	21 30	21 43	0 30	1 50	4 55					
S 20	10 14	1s 3	4 12	17 9	2 34	17 12	0 4	8 19	0 32	15 39	0 51	16 54	1 20	21 48	0 2	21 47	1 18	17 37	15 58	21 29	21 43	0 27	1 51	4 55					
M21	10 35	7 36	3 16	16 41	2 21	17 35	0 7	8 34	0 32	15 43	0 51	16 54	1 20	21 49	0 2	21 47	1 18	17 37	15 58	21 28	21 42	0 24	1 52	4 54					
T 22	10 57	13 40	2 6	16 8	2 6	17 58	0 9	8 50	0 31	15 47	0 51	16 54	1 20	21 49	0 2	21 47	1 18	17 37	15 57	21 27	21 42	0 21	1 53	4 54					
W23	11 18	18 50	0 50	15 31	1 50	18 20	0 12	9 5	0 31	15 51	0 51	16 54	1 20	21 50	0 2	21 47	1 18	17 37	15 57	21 27	21 41	0 18	1 54	4 54					
T 24	11 39	22 43	0s29	14 51	1 32	18 42	0 15	9 20	0 30	15 54	0 51	16 54	1 19	21 50	0 2	21 48	1 18	17 37	15 57	21 27	21 41	0 14	1 55	4 54					
F 25	12 0	25 7	1 43	14 8	1 12	19 3	0 17	9 35	0 30	15 58	0 51	16 54	1 19	21 50	0 2	21 48	1 18	17 38	15 57	21 27	21 40	0 11	1 56	4 53					
S 26	12 21	25 56	2 49	13 23	0 52	19 24	0 20	9 50	0 29	16 2	0 51	16 54	1 19	21 51	0 2	21 48	1 18	17 38	15 57	21 27	21 40	0 8	1 57	4 53					
S 27	12 41	25 17	3 44	12 37	0 32	19 44	0 23	10 5	0 29	16 6	0 51	16 54	1 19	21 51	0 2	21 48	1 18	17 38	15 56	21 27	21 39	0 5	1 57	4 53					
M28	13 2	23 19	4 26	11 52	0 11	20 4	0 25	10 20	0 28	16 10	0 51	16 53	1 19	21 52	0 2	21 48	1 18	17 38	15 56	21 28	21 39	0 2	1 58	4 52					
T 29	13 22	20 18	4 55	11 8	0n 9	20 23	0 28	10 35	0 28	16 13	0 50	16 53	1 19	21 52	0 2	21 48	1 18	17 38	15 56	21 27	21 38	0n 1	1 59	4 52					
W30	13 42	16 27	5 10	10 28	0 29	20 42	0 31	10 50	0 27	16 17	0 50	16 53	1 19	21 53	0 2	21 49	1 18	17 38	15 56	21 27	21 38	0 4	2 0	4 52					
T 31	14s 1	12s 1	5s11	9s52	0n47	21s 0	0s33	11s 5	0n27	16s21	0n50	16s52	1s19	21s53	0n 1	21s49	1n18	17s38	15s55	21n26	21n37	0n 7	2s 1	4n52					

ASTRODIENST EPHEMERIS for the year 1816
geocentric

NOVEMBER 1816

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
F 1	2 40 37	8♌28'39	23♋30	26°R47	2♊36	0♌42	18♍0	17♎28	9♏40	20♐19	22°R17	6°R34	7♑41	10♒28	13°R27	F 1
S 2	2 44 34	9°28'46	5♈21	26♊15	3°50	1°23	18°14	17°29	9°43	20°21	22♋16	6♌29	7°38	10°35	13♍26	S 2
S 3	2 48 31	10°28'55	17°13	25°55	5° 4	2° 4	18°27	17°30	9°46	20°23	22°15	6°24	7°34	10°41	13°25	S 3
M 4	2 52 27	11°29'06	29° 7	25°D46	6°19	2°44	18°40	17°32	9°50	20°25	22°15	6°20	7°31	10°48	13°24	M 4
T 5	2 56 24	12°29'18	11♊6	25°49	7°33	3°25	18°53	17°33	9°53	20°27	22°14	6°17	7°28	10°55	13°23	T 5
W 6	3 0 20	13°29'32	23°12	26° 2	8°47	4° 6	19° 6	17°34	9°56	20°29	22°13	6°15	7°25	11° 2	13°21	W 6
T 7	3 4 17	14°29'49	5♑25	26°25	10° 2	4°46	19°20	17°36	10° 0	20°31	22°13	6°D15	7°22	11° 8	13°20	T 7
F 8	3 8 13	15°30'06	17°48	26°58	11°16	5°27	19°33	17°38	10° 3	20°33	22°12	6°15	7°19	11°15	13°20	F 8
S 9	3 12 10	16°30'26	0♉22	27°39	12°30	6° 8	19°46	17°40	10° 7	20°34	22°11	6°16	7°15	11°22	13°19	S 9
S 10	3 16 6	17°30'48	13°10	28°28	13°45	6°49	19°59	17°41	10°10	20°36	22°11	6°18	7°12	11°28	13°18	S 10
M 11	3 20 3	18°31'12	26°13	29°24	14°59	7°30	20°13	17°43	10°13	20°38	22°10	6°19	7° 9	11°35	13°17	M 11
T 12	3 24 0	19°31'37	9♌35	0♌25	16°13	8°11	20°26	17°46	10°17	20°40	22°10	6°20	7° 6	11°42	13°16	T 12
W 13	3 27 56	20°32'05	23°16	1°31	17°27	8°52	20°39	17°48	10°20	20°42	22° 9	6°R20	7° 3	11°48	13°16	W 13
T 14	3 31 53	21°32'34	7♎17	2°42	18°42	9°33	20°52	17°50	10°24	20°44	22° 8	6°20	7° 0	11°55	13°15	T 14
F 15	3 35 49	22°33'05	21°37	3°56	19°56	10°14	21° 6	17°52	10°27	20°47	22° 8	6°19	6°56	12° 2	13°14	F 15
S 16	3 39 46	23°33'38	6♊14	5°14	21°10	10°55	21°19	17°55	10°31	20°49	22° 7	6°17	6°53	12° 9	13°14	S 16
S 17	3 43 42	24°34'13	21° 3	6°34	22°24	11°36	21°32	17°57	10°35	20°51	22° 7	6°15	6°50	12°15	13°14	S 17
M 18	3 47 39	25°34'50	5♍57	7°57	23°38	12°17	21°46	18° 0	10°38	20°53	22° 7	6°14	6°47	12°22	13°13	M 18
T 19	3 51 35	26°35'28	20°48	9°21	24°53	12°59	21°59	18° 3	10°42	20°55	22° 6	6°13	6°44	12°29	13°13	T 19
W 20	3 55 32	27°36'07	5♊27	10°47	26° 7	13°40	22°12	18° 6	10°45	20°57	22° 6	6°D13	6°40	12°35	13°13	W 20
T 21	3 59 29	28°36'49	19°50	12°15	27°21	14°21	22°25	18° 9	10°49	20°59	22° 5	6°13	6°37	12°42	13°12	T 21
F 22	4 3 25	29°37'31	3♊50	13°43	28°35	15° 3	22°39	18°12	10°53	21° 1	22° 5	6°14	6°34	12°49	13°12	F 22
S 23	4 7 22	0♊38'15	17°25	15°13	29°49	15°44	22°52	18°15	10°56	21° 3	22° 5	6°14	6°31	12°55	13°12	S 23
S 24	4 11 18	1°39'00	0♋35	16°43	1♊3	16°26	23° 5	18°18	11° 0	21° 5	22° 4	6°15	6°28	13° 2	13°D12	S 24
M 25	4 15 15	2°39'45	13°21	18°14	2°18	17° 7	23°18	18°21	11° 3	21° 8	22° 4	6°15	6°25	13° 9	13°12	M 25
T 26	4 19 11	3°40'32	25°48	19°46	3°32	17°49	23°31	18°25	11° 7	21°10	22° 4	6°15	6°21	13°16	13°12	T 26
W 27	4 23 8	4°41'20	7♋59	21°18	4°46	18°30	23°45	18°28	11°11	21°12	22° 4	6°R15	6°18	13°22	13°12	W 27
T 28	4 27 5	5°42'08	19°58	22°50	6° 0	19°12	23°58	18°32	11°14	21°14	22° 3	6°D15	6°15	13°29	13°13	T 28
F 29	4 31 1	6°42'58	1♈51	24°22	7°14	19°53	24°11	18°36	11°18	21°16	22° 3	6°15	6°12	13°36	13°13	F 29
S 30	4 34 58	7♊43'48	13♈42	25♌55	8♊28	20♌35	24♌24	18♋39	11♊22	21♊19	22♋3	6♌16	6♑9	13♈42	13♋13	S 30

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	decl	decl	decl	decl	decl	decl	decl	decl	decl	lat
F 1	14s21	7s10	4s59	9s20	1n 4	21s17	0s36	11s19	0n26	16s25	0n50	16s52	1s19	21s54	0n 1	21s49	1n18	17s38	15s55	21n26	21n37	0n10	2s 2	4n51										
S 2	14 40	2 4	4 34	8 55	1 20	21 34	0 39	11 34	0 26	16 28	0 50	16 52	1 19	21 54	0 1	21 49	1 18	17 38	15 55	21 25	21 36	0 13	2 2	4 51										
S 3	14 59	3n 7	3 57	8 35	1 33	21 50	0 41	11 49	0 25	16 32	0 50	16 51	1 19	21 55	0 1	21 49	1 18	17 39	15 55	21 24	21 36	0 16	2 3	4 51										
M 4	15 18	8 13	3 10	8 21	1 45	22 6	0 44	12 3	0 25	16 36	0 50	16 51	1 19	21 55	0 1	21 49	1 18	17 39	15 54	21 23	21 35	0 19	2 4	4 50										
T 5	15 36	13 3	2 14	8 12	1 54	22 21	0 46	12 17	0 24	16 39	0 50	16 50	1 19	21 56	0 1	21 50	1 18	17 39	15 54	21 23	21 35	0 22	2 4	4 50										
W 6	15 54	17 26	1 11	8 10	2 2	22 36	0 49	12 32	0 23	16 43	0 50	16 50	1 19	21 56	0 1	21 50	1 18	17 39	15 54	21 22	21 34	0 25	2 5	4 50										
T 7	16 12	21 9	0 5	8 12	2 9	22 49	0 51	12 46	0 23	16 47	0 50	16 49	1 19	21 57	0 1	21 50	1 18	17 39	15 54	21 22	21 34	0 28	2 6	4 49										
F 8	16 30	23 57	1n 3	8 20	2 13	23 3	0 54	13 0	0 22	16 50	0 50	16 49	1 18	21 57	0 1	21 50	1 18	17 39	15 53	21 22	21 33	0 31	2 6	4 49										
S 9	16 47	25 37	2 9	8 31	2 17	23 15	0 56	13 14	0 22	16 54	0 50	16 48	1 18	21 58	0 1	21 50	1 18	17 39	15 53	21 23	21 33	0 34	2 7	4 49										
S 10	17 5	25 58	3 10	8 47	2 19	23 27	0 59	13 28	0 21	16 58	0 50	16 47	1 18	21 58	0 1	21 50	1 18	17 39	15 53	21 23	21 32	0 37	2 8	4 49										
M11	17 21	24 53	4 2	9 6	2 19	23 38	1 1	13 42	0 21	17 1	0 50	16 47	1 18	21 59	0 1	21 51	1 18	17 39	15 53	21 23	21 32	0 41	2 8	4 48										
T 12	17 38	22 24	4 43	9 28	2 19	23 48	1 4	13 56	0 20	17 5	0 49	16 46	1 18	21 59	0 1	21 51	1 18	17 39	15 52	21 23	21 31	0 44	2 9	4 48										
W13	17 54	18 37	5 8	9 52	2 17	23 58	1 6	14 9	0 20	17 8	0 49	16 45	1 18	22 0	0 1	21 51	1 18	17 39	15 52	21 23	21 31	0 47	2 9	4 48										
T 14	18 10	13 44	5 16	10 18	2 15	24 7	1 8	14 23	0 19	17 12	0 49	16 45	1 18	22 0	0 1	21 51	1 18	17 39	15 52	21 23	21 30	0 50	2 10	4 47										
F 15	18 26	8 0	5 5	10 46	2 12	24 15	1 11	14 37	0 19	17 15	0 49	16 44	1 18	22 1	0 1	21 51	1 18	17 38	15 51	21 23	21 29	0 53	2 10	4 47										
S 16	18 41	1 43	4 34	11 16	2 8	24 23	1 13	14 50	0 18	17 19	0 49	16 43	1 18	22 2	0 1	21 51	1 18	17 38	15 51	21 23	21 29	0 56	2 11	4 47										
S 17	18 56	4s45	3 45	11 46	2 4	24 30	1 15	15 3	0 18	17 22	0 49	16 42	1 18	22 2	0 1	21 52	1 18	17 38	15 51	21 23	21 28	0 59	2 11	4 46										
M18	19 11	11 0	2 40	12 17	2 0	24 36	1 17	15 16	0 17	17 26	0 49	16 41	1 18	22 3	0 1	21 52	1 17	17 38	15 50	21 22	21 28	1 2	2 12	4 46										
T 19	19 25	16 37	1 25	12 49	1 54	24 41	1 19	15 29	0 16	17 29	0 49	16 40	1 18	22 3	0 1	21 52	1 17	17 38	15 50	21 22	21 27	1 5	2 12	4 46										
W20	19 39	21 10	0 4	13 21	1 49	24 46	1 22	15 42	0 16	17 33	0 49	16 39	1 18	22 4	0 1	21 52	1 17	17 38	15 50	21 22	21 27	1 8	2 13	4 45										
T 21	19 52	24 19	1s15	13 54	1 43	24 50	1 24	15 55	0 15	17 36	0 49	16 38	1 18	22 4	0 1	21 52	1 17	17 38	15 49	21 22	21 26	1 11	2 13	4 45										
F 22	20 5	25 52	2 27	14 26	1 37	24 53	1 26	16 8	0 15	17 40	0 49	16 37	1 18	22 5	0 1	21 52	1 17	17 38	15 49	21 22	21 26	1 14	2 13	4 45										
S 23	20 18	25 47	3 29	14 59	1 30	24 55	1 28	16 21	0 14	17 43	0 49	16 36	1 18	22 5	0 1	21 53	1 17	17 37	15 49	21 22	21 25	1 17	2 14	4 44										
S 24	20 31	24 15	4 18	15 31	1 24	24 57	1 29	16 33	0 14	17 46	0 49	16 35	1 17	22 6	0 1	21 53	1 17	17 37	15 49	21 22	21 25	1 21	2 14	4 44										
M25	20 43	21 30	4 53	16 3	1 17	24 58	1 31	16 45	0 13	17 50	0 49	16 34	1 17	22 6	0 1	21 53	1 17	17 37	15 48	21 22	21 24	1 24	2 14	4 44										
T 26	20 55	17 49	5 12	16 34	1 10	24 58	1 33	16 58	0 12	17 53	0 49	16 33	1 17	22 7	0 1	21 53	1 17	17 37	15 48	21 23	21 24	1 27	2 15	4 43										
W27	21 6	13 29	5 17	17 5	1 3	24 57	1 35	17 10	0 12	17 56	0 49	16 32	1 17	22 7	0 1	21 53	1 17	17 37	15 48	21 23	21 23	1 30	2 15	4 43										
T 28	21 17	8 42	5 8	17 36	0 56	24 56	1 36	17 22	0 11	18 0	0 49	16 31	1 17	22 8	0 1	21 53	1 17	17 37	15 47	21 23	21 22	1 33	2 15	4 43										
F 29	21 27	3 38	4 46	18 5	0 49	24 54	1 38	17 34	0 11	18 3	0 49	16 30	1 17	22 8	0 1	21 54	1 17	17 36	15 47	21 23	21 22	1 36	2 15	4 42										
S 30	21s37	1n32	4s12	18s34	0n42	24s51	1s40	17s45	0n10	18s 6	0n49	16s28	1s17	22s 9	0n 1	21s54	1n17	17s36	15s47	21n23	21n21	1n39	2s16	4n42										

ASTRODIENST EPHEMERIS for the year 1816

geocentric

DECEMBER 1816

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 54	8°44'40	25°34	27°28	9°42	21°17	24°37	18°43	11°25	21°21	22°R 3	6°16	6°II 6	13°Y49	13°X13	S 1
M 2	4 42 51	9°45'32	7°32	29° 1	10°56	21°59	24°50	18°47	11°29	21°23	22°R 3	6°16	6° 2	13°56	13°14	M 2
T 3	4 46 47	10°46'25	19°38	0°34	12°10	22°40	25° 3	18°51	11°33	21°25	22° 3	6°17	5°59	14° 2	13°14	T 3
W 4	4 50 44	11°47'20	11°55	2° 7	13°24	23°22	25°16	18°55	11°36	21°28	22° 3	6°R17	5°56	14° 9	13°15	W 4
T 5	4 54 40	12°48'15	14°23	3°40	14°38	24° 4	25°29	18°59	11°40	21°30	22° 3	6°17	5°53	14°16	13°16	T 5
F 6	4 58 37	13°49'11	27° 6	5°14	15°51	24°46	25°42	19° 4	11°44	21°32	22°D 3	6°16	5°50	14°22	13°16	F 6
S 7	5 2 34	14°50'09	10°5 1	6°47	17° 5	25°28	25°55	19° 8	11°47	21°34	22° 3	6°15	5°46	14°29	13°17	S 7
S 8	5 6 30	15°51'07	23°10	8°21	18°19	26°10	26° 8	19°12	11°51	21°37	22° 3	6°14	5°43	14°36	13°18	S 8
M 9	5 10 27	16°52'06	6°32	9°54	19°33	26°52	26°21	19°17	11°55	21°39	22° 3	6°13	5°40	14°43	13°19	M 9
T 10	5 14 23	17°53'07	20° 7	11°28	20°47	27°34	26°34	19°21	11°59	21°41	22° 3	6°11	5°37	14°49	13°19	T 10
W11	5 18 20	18°54'08	3°54	13° 1	22° 0	28°16	26°47	19°26	12° 2	21°43	22° 3	6°10	5°34	14°56	13°20	W11
T 12	5 22 16	19°55'11	17°52	14°35	23°14	28°58	27° 0	19°31	12° 6	21°46	22° 3	6°D10	5°31	15° 3	13°21	T 12
F 13	5 26 13	20°56'14	2° 0	16° 9	24°28	29°41	27°12	19°36	12° 9	21°48	22° 3	6°10	5°27	15° 9	13°22	F 13
S 14	5 30 9	21°57'19	16°17	17°43	25°41	0°23	27°25	19°41	12°13	21°50	22° 3	6°11	5°24	15°16	13°24	S 14
S 15	5 34 6	22°58'24	0°39	19°17	26°55	1° 5	27°38	19°45	12°17	21°52	22° 4	6°12	5°21	15°23	13°25	S 15
M16	5 38 3	23°59'30	15° 4	20°51	28° 9	1°47	27°50	19°50	12°20	21°55	22° 4	6°14	5°18	15°29	13°26	M16
T 17	5 41 59	25° 0'38	29°28	22°26	29°22	2°30	28° 3	19°56	12°24	21°57	22° 4	6°R14	5°15	15°36	13°27	T 17
W18	5 45 56	26° 1'46	13°44	24° 0	0°36	3°12	28°16	20° 1	12°28	21°59	22° 4	6°14	5°12	15°43	13°29	W18
T 19	5 49 52	27° 2'54	27°50	25°35	1°49	3°55	28°28	20° 6	12°31	22° 2	22° 5	6°13	5° 8	15°49	13°30	T 19
F 20	5 53 49	28° 4'03	11°39	27°10	3° 3	4°37	28°40	20°11	12°35	22° 4	22° 5	6°11	5° 5	15°56	13°31	F 20
S 21	5 57 45	29° 5'13	25°10	28°45	4°16	5°20	28°53	20°17	12°38	22° 6	22° 5	6° 8	5° 2	16° 3	13°33	S 21
S 22	6 1 42	0°3 6'22	8°20	0°320	5°29	6° 2	29° 5	20°22	12°42	22° 8	22° 6	6° 4	4°59	16°10	13°34	S 22
M23	6 5 38	1° 7'32	21° 9	1°56	6°43	6°45	29°18	20°28	12°45	22°11	22° 6	6° 0	4°56	16°16	13°36	M23
T 24	6 9 35	2° 8'42	3°39	3°32	7°56	7°28	29°30	20°33	12°49	22°13	22° 6	5°56	4°52	16°23	13°38	T 24
W25	6 13 32	3° 9'52	15°52	5° 8	9° 9	8°10	29°42	20°39	12°52	22°15	22° 7	5°54	4°49	16°30	13°39	W25
T 26	6 17 28	4°11'01	27°53	6°44	10°23	8°53	29°54	20°44	12°56	22°17	22° 7	5°52	4°46	16°36	13°41	T 26
F 27	6 21 25	5°12'11	9°47	8°21	11°36	9°36	0°2 6	20°50	12°59	22°19	22° 8	5°D52	4°43	16°43	13°43	F 27
S 28	6 25 21	6°13'21	21°37	9°57	12°49	10°18	0°18	20°56	13° 3	22°22	22° 8	5°53	4°40	16°50	13°45	S 28
S 29	6 29 18	7°14'30	3°29	11°35	14° 2	11° 1	0°30	21° 2	13° 6	22°24	22° 9	5°55	4°37	16°56	13°47	S 29
M30	6 33 14	8°15'40	15°28	13°12	15°15	11°44	0°42	21° 8	13°10	22°26	22° 9	5°57	4°33	17° 3	13°49	M30
T 31	6 37 11	9°16'49	27°39	14°30	16°28	12°27	0°254	21°14	13°13	22°28	22°10	5°II58	4°II30	17°Y10	13°X51	T 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
S 1	21s47	6n41	3s27	19s 3	0n35	24s47	1s41	17s57	0n 9	18s 9	0n49	16s27	1s17	22s 9	0n 1	21s54
M 2	21 56	11 38	2 33	19 30	0 28	24 43	1 43	18 8	0 9	18 13	0 49	16 26	1 17	22 10	0 1	21 54
T 3	22 5	16 12	1 31	19 57	0 21	24 38	1 44	18 20	0 8	18 16	0 49	16 25	1 17	22 10	0 1	21 54
W 4	22 13	20 10	0 24	20 23	0 14	24 32	1 45	18 31	0 8	18 19	0 49	16 23	1 17	22 11	0 1	21 54
T 5	22 21	23 18	0n45	20 48	0 7	24 25	1 46	18 42	0 7	18 22	0 48	16 22	1 17	22 11	0 1	21 54
F 6	22 29	25 19	1 53	21 12	0s 0	24 18	1 48	18 52	0 6	18 25	0 48	16 20	1 17	22 12	0 1	21 55
S 7	22 36	26 1	2 56	21 35	0 7	24 10	1 49	19 3	0 6	18 28	0 48	16 19	1 17	22 12	0 1	21 55
S 8	22 43	25 17	3 52	21 57	0 14	24 1	1 50	19 14	0 5	18 31	0 48	16 18	1 17	22 13	0 1	21 55
M 9	22 49	23 6	4 35	22 18	0 21	23 52	1 51	19 24	0 5	18 34	0 48	16 16	1 17	22 13	0 1	21 55
T 10	22 55	19 36	5 4	22 38	0 27	23 42	1 51	19 34	0 4	18 37	0 48	16 15	1 17	22 14	0 1	21 55
W11	23 0	14 59	5 16	22 57	0 34	23 31	1 52	19 44	0 3	18 40	0 48	16 13	1 17	22 14	0 1	21 55
T 12	23 5	9 33	5 10	23 14	0 40	23 19	1 53	19 54	0 3	18 43	0 48	16 12	1 17	22 15	0 1	21 56
F 13	23 9	3 33	4 45	23 31	0 46	23 7	1 54	20 4	0 2	18 46	0 48	16 10	1 17	22 15	0 1	21 56
S 14	23 13	2s41	4 2	23 46	0 52	22 54	1 54	20 14	0 2	18 49	0 48	16 8	1 16	22 16	0 1	21 56
S 15	23 17	8 50	3 4	24 0	0 58	22 40	1 55	20 23	0 1	18 52	0 48	16 7	1 16	22 16	0 1	21 56
M16	23 20	14 33	1 54	24 13	1 4	22 26	1 55	20 32	0 0	18 55	0 48	16 5	1 16	22 17	0 1	21 56
T 17	23 22	19 27	0 37	24 24	1 10	22 11	1 55	20 41	0s 0	18 58	0 48	16 4	1 16	22 17	0 1	21 56
W18	23 24	23 9	0s41	24 35	1 15	21 55	1 55	20 50	0 1	19 0	0 48	16 2	1 16	22 18	0 1	21 56
T 19	23 26	25 23	1 56	24 44	1 20	21 39	1 56	20 59	0 2	19 3	0 48	16 0	1 16	22 18	0 1	21 57
F 20	23 27	25 59	3 3	24 51	1 25	21 22	1 56	21 7	0 2	19 6	0 48	15 59	1 16	22 19	0 1	21 57
S 21	23 28	25 1	3 58	24 58	1 30	21 5	1 56	21 16	0 3	19 9	0 48	15 57	1 16	22 19	0 1	21 57
S 22	23 28	22 40	4 38	25 2	1 35	20 47	1 55	21 24	0 4	19 11	0 48	15 55	1 16	22 20	0 1	21 57
M23	23 28	19 15	5 3	25 6	1 39	20 28	1 55	21 32	0 4	19 14	0 48	15 53	1 16	22 20	0 1	21 57
T 24	23 27	15 3	5 14	25 8	1 43	20 9	1 55	21 39	0 5	19 17	0 48	15 51	1 16	22 21	0 1	21 57
W25	23 26	10 19	5 9	25 9	1 47	19 49	1 55	21 47	0 5	19 19	0 48	15 50	1 16	22 21	0 1	21 57
T 26	23 24	5 17	4 51	25 8	1 50	19 29	1 54	21 54	0 6	19 22	0 48	15 48	1 16	22 21	0 1	21 57
F 27	23 22	0 7	4 21	25 6	1 54	19 8	1 53	22 1	0 7	19 24	0 48	15 46	1 16	22 22	0 1	21 58
S 28	23 19	5n 2	3 39	25 2	1 57	18 47	1 53	22 8	0 7	19 27	0 48	15 44	1 16	22 22	0 1	21 58
S 29	23 16	10 3	2 48	24 56	1 59	18 25	1 52	22 15	0 8	19 29	0 48	15 42	1 16	22 23	0 1	21 58
M30	23 12	14 44	1 50	24 50	2 2	18 3	1 51	22 22	0 9	19 32	0 48	15 40	1 16	22 23	0 1	21 58
T 31	23s 8	18n55	0s45	24s41	2s 4	17s40	1s50	22s28	0s 9	19s34	0n48	15s38	1s16	22s24	0n 1	21s58

Julian Day Number = 2384674.5, Delta T = 16.54 sec
 Ecliptic obliquity = 23°27'51, Nutation = - 0°00'17, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°11'02, Lahiri = 21°18'02