



Astrodienst Ephemeris Tables for the year 2016

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 2016

geocentric

JANUARY 2016

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	6 40 22	9°38'56"	26°42'	29°17'	2°31'	28°33'	23°11'	11°15'	16°35'	7°34'	15°3'	24°D53	25°37'	14°16'	17°28'	F 1
S 2	6 44 18	11° 0'05"	8°32'	29°57'	3°16'	29° 7'	23°11'	11°15'	16°35'	7°34'	15° 5'	24°R53	25°33'	14°23'	17°30'	S 2
S 3	6 48 15	12° 1'15"	20°20'	0°28'	4°29'	29°40'	23°12'	11°22'	16°35'	7°36'	15° 7'	24°53	25°30'	14°29'	17°32'	S 3
M 4	6 52 11	13° 2'24"	21°11'	0°49'	5°42'	0°13'	23°13'	11°28'	16°36'	7°37'	15° 9'	24°51	25°27'	14°36'	17°34'	M 4
T 5	6 56 8	14° 3'34"	14°11'	1° 1'	6°55'	0°46'	23°13'	11°34'	16°36'	7°39'	15°11'	24°47	25°24'	14°43'	17°36'	T 5
W 6	7 0 5	15° 4'45"	26°25'	1°R 1	8° 8'	1°19'	23°14'	11°41'	16°37'	7°40'	15°13'	24°40	25°21'	14°49'	17°38'	W 6
T 7	7 4 1	16° 5'55"	8°56'	0°50'	9°21'	1°52'	23°14'	11°47'	16°37'	7°42'	15°15'	24°31	25°17'	14°56'	17°40'	T 7
F 8	7 7 58	17° 7'05"	21°45'	0°27'	10°35'	2°25'	23°R14	11°53'	16°38'	7°43'	15°17'	24°19	25°14'	15° 3'	17°42'	F 8
S 9	7 11 54	18° 8'16"	4°54'	29°53'	11°48'	2°57'	23°14'	12° 0'	16°38'	7°45'	15°20'	24° 7'	25°11'	15° 9'	17°44'	S 9
S 10	7 15 51	19° 9'26"	18°22'	29° 7'	13° 1'	3°30'	23°14'	12° 6'	16°39'	7°47'	15°22'	23°56	25° 8'	15°16'	17°47'	S 10
M 11	7 19 47	20°10'36"	2°5'	28°10'	14°14'	4° 2'	23°14'	12°12'	16°40'	7°48'	15°24'	23°45	25° 5'	15°23'	17°49'	M 11
T 12	7 23 44	21°11'46"	16° 1'	27° 5'	15°28'	4°35'	23°13'	12°18'	16°41'	7°50'	15°26'	23°37	25° 2'	15°29'	17°51'	T 12
W 13	7 27 40	22°12'55"	0°4'	25°53'	16°41'	5° 7'	23°12'	12°24'	16°42'	7°52'	15°28'	23°32	24°58'	15°36'	17°54'	W 13
T 14	7 31 37	23°14'04"	14°12'	24°36'	17°55'	5°39'	23°11'	12°30'	16°43'	7°53'	15°30'	23°30	24°55'	15°43'	17°56'	T 14
F 15	7 35 34	24°15'12"	28°21'	23°17'	19° 8'	6°11'	23°10'	12°36'	16°44'	7°55'	15°32'	23°D30	24°52'	15°49'	17°58'	F 15
S 16	7 39 30	25°16'20"	12°29'	21°58'	20°22'	6°43'	23° 8'	12°42'	16°45'	7°57'	15°34'	23°31	24°49'	15°56'	18° 1'	S 16
S 17	7 43 27	26°17'26"	26°36'	20°42'	21°35'	7°15'	23° 7'	12°48'	16°46'	7°59'	15°36'	23°R31	24°46'	16° 3'	18° 3'	S 17
M 18	7 47 23	27°18'32"	10°39'	19°31'	22°49'	7°47'	23° 5'	12°53'	16°47'	8° 0'	15°38'	23°30	24°43'	16° 9'	18° 6'	M 18
T 19	7 51 20	28°19'37"	24°39'	18°26'	24° 2'	8°18'	23° 3'	12°59'	16°48'	8° 2'	15°40'	23°27	24°39'	16°16'	18° 9'	T 19
W 20	7 55 16	29°20'41"	8°33'	17°28'	25°16'	8°50'	23° 1'	13° 5'	16°49'	8° 4'	15°42'	23°22	24°36'	16°23'	18°11'	W 20
T 21	7 59 13	0°21'45"	22°20'	16°40'	26°30'	9°21'	22°58'	13°10'	16°51'	8° 6'	15°44'	23°14	24°33'	16°29'	18°14'	T 21
F 22	8 3 9	1°22'47"	5°57'	16° 1'	27°43'	9°52'	22°56'	13°16'	16°52'	8° 8'	15°46'	23° 5'	24°30'	16°36'	18°17'	F 22
S 23	8 7 6	2°23'49"	19°22'	15°31'	28°57'	10°24'	22°53'	13°21'	16°53'	8°10'	15°48'	22°56	24°27'	16°43'	18°19'	S 23
S 24	8 11 3	3°24'50"	2°32'	15°10'	0°31'	10°55'	22°50'	13°27'	16°55'	8°12'	15°50'	22°47	24°23'	16°49'	18°22'	S 24
M 25	8 14 59	4°25'51"	15°26'	14°58'	1°24'	11°25'	22°47'	13°32'	16°56'	8°14'	15°52'	22°40	24°20'	16°56'	18°25'	M 25
T 26	8 18 56	5°26'50"	28° 3'	14°D55	2°38'	11°56'	22°44'	13°37'	16°58'	8°16'	15°54'	22°35	24°17'	17° 3'	18°28'	T 26
W 27	8 22 52	6°27'49"	10°24'	14°59'	3°52'	12°27'	22°40'	13°43'	16°59'	8°18'	15°56'	22°32	24°14'	17° 9'	18°31'	W 27
T 28	8 26 49	7°28'47"	22°31'	15°11'	5° 6'	12°57'	22°37'	13°48'	17° 1'	8°20'	15°58'	22°D31	24°11'	17°16'	18°34'	T 28
F 29	8 30 45	8°29'44"	4°28'	15°30'	6°20'	13°28'	22°33'	13°53'	17° 3'	8°22'	16° 0'	22°31	24° 8'	17°22'	18°37'	F 29
S 30	8 34 42	9°30'41"	16°18'	15°55'	7°34'	13°58'	22°29'	13°58'	17° 4'	8°24'	16° 2'	22°33	24° 4'	17°29'	18°40'	S 30
S 31	8 38 38	10°31'37"	28°27'	16°32'	8°34'	14°28'	22°25'	14°3'	17°6'	8°26'	16°3'	22°35	24°1'	17°36'	18°43'	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	23s 4	1n28	0n10	21s 3	0s46	18s37	2n 0	9s34	1n30	3n51	1n14	20s30	1n38	5n56	0s38	F 1
S 2	22s 59	2s17	1 12	20 41	0 32	18 53	1 58	9 45	1 30	3 51	1 15	20 30	1 38	5 56	0 38	S 2
S 3	22s 53	5 55	2 11	20 20	0 17	19 8	1 56	9 57	1 30	3 51	1 15	20 31	1 38	5 56	0 38	S 3
M 4	22s 48	9 20	3 5	19 59	0 1	19 23	1 54	10 9	1 30	3 51	1 15	20 32	1 38	5 56	0 38	M 4
T 5	22s 42	12 25	3 51	19 40	0n16	19 37	1 52	10 20	1 30	3 51	1 16	20 33	1 38	5 56	0 38	T 5
W 6	22s 35	15 1	4 27	19 23	0 34	19 51	1 50	10 31	1 30	3 51	1 16	20 34	1 38	5 57	0 38	W 6
T 7	22s 28	16 59	4 52	19 7	0 52	20 4	1 48	10 43	1 30	3 51	1 16	20 35	1 38	5 57	0 38	T 7
F 8	22s 20	18 9	5 2	18 53	1 11	20 17	1 46	10 54	1 30	3 51	1 16	20 36	1 38	5 57	0 38	F 8
S 9	22s 12	18 23	4 57	18 42	1 31	20 29	1 44	11 5	1 30	3 51	1 17	20 36	1 38	5 57	0 38	S 9
S 10	22 4	17 37	4 36	18 33	1 50	20 41	1 41	11 16	1 30	3 52	1 17	20 37	1 38	5 58	0 38	S 10
M 11	21s 55	15 49	3 58	18 26	2 8	20 52	1 39	11 27	1 30	3 52	1 17	20 38	1 38	5 58	0 38	M 11
T 12	21s 46	13 4	3 6	18 22	2 25	21 2	1 37	11 38	1 30	3 53	1 17	20 38	1 38	5 59	0 38	T 12
W 13	21s 36	9 33	2 2	18 20	2 41	21 12	1 34	11 49	1 30	3 53	1 18	20 39	1 38	5 59	0 38	W 13
T 14	21s 26	5 27	0 50	18 20	2 54	21 22	1 32	12 0	1 30	3 54	1 18	20 40	1 38	5 59	0 38	T 14
F 15	21s 16	1 3	0s26	18 22	3 6	21 31	1 29	12 10	1 30	3 55	1 18	20 41	1 38	6 0	0 38	F 15
S 16	21 5	3n24	1 40	18 26	3 15	21 39	1 27	12 21	1 30	3 56	1 19	20 41	1 38	6 0	0 38	S 16
S 17	20s 53	7 39	2 48	18 31	3 22	21 46	1 24	12 31	1 30	3 56	1 19	20 42	1 38	6 1	0 37	S 17
M 18	20s 42	11 27	3 45	18 37	3 26	21 53	1 21	12 41	1 30	3 57	1 19	20 43	1 39	6 1	0 37	M 18
T 19	20s 30	14 35	4 29	18 44	3 28	22 0	1 19	12 52	1 29	3 58	1 19	20 43	1 39	6 2	0 37	T 19
W 20	20s 17	16 51	4 56	18 52	3 27	22 5	1 16	13 2	1 29	4 0	1 20	20 44	1 39	6 2	0 37	W 20
T 21	20 4	18 7	5 6	19 1	3 24	22 10	1 13	13 12	1 29	4 1	1 20	20 45	1 39	6 3	0 37	T 21
F 22	19s 51	18 20	4 59	19 10	3 20	22 15	1 10	13 22	1 29	4 2	1 20	20 45	1 39	6 3	0 37	F 22
S 23	19s 37	17 30	4 35	19 19	3 14	22 18	1 7	13 31	1 29	4 3	1 20	20 46	1 39	6 4	0 37	S 23
S 24	19s 23	15 45	3 56	19 29	3 7	22 21	1 5	13 41	1 29	4 5	1 21	20 46	1 39	6 4	0 37	S 24
M 25	19 9	13 14	3 7	19 38	2 58	22 24	1 2	13 51	1 29	4 6	1 21	20 47	1 39	6 5	0 37	M 25
T 26	18s 54	10 8	2 8	19 48	2 49	22 26	0 59	14 0	1 29	4 8	1 21	20 48	1 39	6 6	0 37	T 26
W 27	18s 39	6 40	1 5	19 57	2 40	22 27	0 56	14 10	1 29	4 9	1 22	20 48	1 39	6 6	0 37	W 27
T 28	18s 24	2 58	0n 0	20 6	2 30	22 27	0 53	14 19	1 29	4 11	1 22	20 49	1 39	6 7	0 37	T 28
F 29	18 8	0s47	1 4	20 14	2 19	22 27	0 50	14 28	1 28	4 13	1 22	20 49	1 39	6 7	0 37	F 29
S 30	17s 52	4 29	2 6	20 22	2 8	22 26	0 47	14 37	1 28	4 15	1 22	20 50	1 39	6 8	0 37	S 30
S 31	17s36	7s59	3n 1	20s29	1n57	22s24	0n44	14s46	1n28	4n16	1n23	20s50	1n39	6n 9	0s37	S 31

Julian Day Number = 2457388.5, Delta T = 68.10 sec
 Ecliptic obliquity = 23°26'04", Nutation = - 0°00'01", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°57'50", Lahiri = 24°04'50"

ASTRODIENST EPHEMERIS for the year 2016

geocentric

FEBRUARY 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	8 42 35	11°32'32	9°58'	17°28'	10°28'	14°58'	22°R20	14°58'	17°58'	8°28'	16°36'	22°R35	23°58'	17°42'	18°46'	M 1
T 2	8 46 32	12°33'27	21°58'	17°43'	11°16'	15°28'	22°R16	14°12'	17°10'	8°30'	16°8'	22°R35	23°55'	17°49'	18°49'	T 2
W 3	8 50 28	13°34'21	4°12'	18°28'	12°30'	15°57'	22°11'	14°17'	17°12'	8°32'	16°10'	22°33'	23°52'	17°56'	18°52'	W 3
T 4	8 54 25	14°35'14	16°43'	19°18'	13°44'	16°27'	22°6'	14°22'	17°14'	8°34'	16°12'	22°29'	23°49'	18°2'	18°55'	T 4
F 5	8 58 21	15°36'06	29°36'	20°10'	14°58'	16°56'	22°1'	14°26'	17°16'	8°36'	16°13'	22°23'	23°45'	18°9'	18°58'	F 5
S 6	9 2 18	16°36'57	12°52'	21°6'	16°12'	17°25'	21°56'	14°31'	17°18'	8°38'	16°15'	22°17'	23°42'	18°16'	19°2'	S 6
S 7	9 6 14	17°37'47	26°32'	22°5'	17°26'	17°54'	21°51'	14°35'	17°20'	8°41'	16°17'	22°11'	23°39'	18°22'	19°5'	S 7
M 8	9 10 11	18°38'36	10°33'	23°7'	18°40'	18°23'	21°46'	14°40'	17°22'	8°43'	16°19'	22°6'	23°36'	18°29'	19°8'	M 8
T 9	9 14 7	19°39'24	24°52'	24°11'	19°54'	18°51'	21°40'	14°44'	17°24'	8°45'	16°21'	22°2'	23°33'	18°36'	19°11'	T 9
W10	9 18 4	20°40'11	9°22'	25°18'	21°8'	19°20'	21°34'	14°48'	17°26'	8°47'	16°23'	22°0'	23°29'	18°42'	19°15'	W10
T 11	9 22 1	21°40'56	23°58'	26°27'	22°22'	19°48'	21°28'	14°52'	17°28'	8°49'	16°24'	21°D59	23°26'	18°49'	19°18'	T 11
F 12	9 25 57	22°41'40	8°34'	27°37'	23°36'	20°16'	21°22'	14°56'	17°31'	8°52'	16°26'	22°0'	23°23'	18°56'	19°21'	F 12
S 13	9 29 54	23°42'22	23°3'	28°50'	24°50'	20°44'	21°16'	15°0'	17°33'	8°54'	16°28'	22°2'	23°20'	19°2'	19°25'	S 13
S 14	9 33 50	24°43'02	7°23'	0°44'	26°4'	21°11'	21°10'	15°4'	17°35'	8°56'	16°30'	22°3'	23°17'	19°9'	19°28'	S 14
M15	9 37 47	25°43'41	21°31'	1°20'	27°18'	21°39'	21°4'	15°8'	17°38'	8°58'	16°31'	22°R4'	23°14'	19°16'	19°32'	M15
T 16	9 41 43	26°44'18	5°26'	2°37'	28°33'	22°6'	20°57'	15°12'	17°40'	9°0'	16°33'	22°4'	23°10'	19°22'	19°35'	T 16
W17	9 45 40	27°44'53	19°7'	3°56'	29°47'	22°33'	20°50'	15°15'	17°43'	9°3'	16°35'	22°2'	23°7'	19°29'	19°39'	W17
T 18	9 49 36	28°45'27	2°34'	5°16'	1°41'	23°0'	20°44'	15°19'	17°45'	9°5'	16°36'	22°0'	23°4'	19°36'	19°42'	T 18
F 19	9 53 33	29°45'59	15°47'	6°38'	2°15'	23°26'	20°37'	15°22'	17°48'	9°7'	16°38'	21°57'	23°1'	19°42'	19°45'	F 19
S 20	9 57 30	0°46'29	28°46'	8°1'	3°29'	23°53'	20°30'	15°26'	17°50'	9°9'	16°40'	21°53'	22°58'	19°49'	19°49'	S 20
S 21	10 1 26	1°46'57	11°23'	9°25'	4°43'	24°19'	20°23'	15°29'	17°53'	9°12'	16°41'	21°50'	22°55'	19°56'	19°53'	S 21
M22	10 5 23	2°47'23	24°6'	10°50'	5°58'	24°45'	20°16'	15°32'	17°55'	9°14'	16°43'	21°47'	22°51'	20°2'	19°56'	M22
T 23	10 9 19	3°47'48	6°28'	12°16'	7°12'	25°10'	20°9'	15°35'	17°58'	9°16'	16°44'	21°46'	22°48'	20°9'	20°0'	T 23
W24	10 13 16	4°48'12	18°38'	13°44'	8°26'	25°36'	20°1'	15°38'	18°1'	9°19'	16°46'	21°D45	22°45'	20°16'	20°3'	W24
T 25	10 17 12	5°48'33	0°39'	15°12'	9°40'	26°1'	19°54'	15°41'	18°3'	9°21'	16°47'	21°45'	22°42'	20°22'	20°7'	T 25
F 26	10 21 9	6°48'53	12°33'	16°42'	10°54'	26°26'	19°47'	15°44'	18°6'	9°23'	16°49'	21°46'	22°39'	20°29'	20°10'	F 26
S 27	10 25 5	7°49'12	24°22'	18°13'	12°9'	26°51'	19°39'	15°47'	18°9'	9°25'	16°50'	21°47'	22°35'	20°36'	20°14'	S 27
S 28	10 29 2	8°49'29	6°11'	19°44'	13°23'	27°15'	19°32'	15°50'	18°12'	9°28'	16°52'	21°49'	22°32'	20°42'	20°18'	S 28
M29	10 32 59	9°49'45	18°13'	21°17'	14°37'	27°13'	19°24'	15°52'	18°15'	9°30'	16°53'	21°50'	22°29'	20°49'	20°21'	M29

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	17s19	11s10	3n49	20s35	1n46	22s22	0n41	14s55	1n28	4n18	1n23	20s51	1n39	6n10	0s37	9s 8	0s47	20s56	1n33	2n56	2n24	5s 2	0s35	4n11			
T 2	17 2	13 56	4 28	20 41	1 35	22 19	0 38	15 4	1 28	4 20	1 23	20 51	1 40	6 10	0 37	9 7	0 47	20 56	1 32	2 57	2 25	5 3	0 34	4 11			
W 3	16 45	16 8	4 56	20 46	1 25	22 16	0 35	15 13	1 28	4 22	1 23	20 52	1 40	6 11	0 37	9 6	0 47	20 56	1 32	2 58	2 26	5 5	0 33	4 11			
T 4	16 27	17 38	5 10	20 50	1 14	22 12	0 32	15 21	1 28	4 25	1 23	20 52	1 40	6 12	0 37	9 5	0 47	20 56	1 32	2 59	2 27	5 7	0 32	4 11			
F 5	16 9	18 17	5 9	20 53	1 3	22 7	0 29	15 30	1 27	4 27	1 24	20 53	1 40	6 13	0 37	9 4	0 47	20 55	1 32	3 1	2 29	5 9	0 31	4 11			
S 6	15 51	17 58	4 52	20 55	0 53	22 1	0 26	15 38	1 27	4 29	1 24	20 53	1 40	6 13	0 37	9 4	0 47	20 55	1 32	3 4	2 30	5 11	0 30	4 10			
S 7	15 33	16 38	4 18	20 56	0 42	21 55	0 23	15 46	1 27	4 31	1 24	20 53	1 40	6 14	0 37	9 3	0 47	20 55	1 32	3 6	2 31	5 12	0 29	4 10			
M 8	15 14	14 16	3 27	20 56	0 32	21 48	0 20	15 54	1 27	4 34	1 24	20 54	1 40	6 15	0 37	9 2	0 47	20 55	1 32	3 8	2 33	5 14	0 28	4 10			
T 9	14 55	10 59	2 23	20 54	0 22	21 40	0 17	16 2	1 26	4 36	1 25	20 54	1 40	6 16	0 37	9 1	0 47	20 55	1 32	3 10	2 34	5 16	0 27	4 10			
W10	14 36	7 0	1 9	20 52	0 13	21 32	0 14	16 10	1 26	4 38	1 25	20 55	1 40	6 17	0 37	9 0	0 47	20 55	1 32	3 10	2 35	5 18	0 26	4 10			
T 11	14 17	2 34	0s11	20 48	0 3	21 23	0 11	16 18	1 26	4 41	1 25	20 55	1 40	6 18	0 37	9 0	0 47	20 54	1 32	3 11	2 36	5 19	0 24	4 10			
F 12	13 57	2n 1	1 30	20 44	0s 6	21 14	0 8	16 26	1 26	4 44	1 25	20 55	1 40	6 19	0 37	8 59	0 47	20 54	1 32	3 10	2 38	5 21	0 23	4 9			
S 13	13 37	6 27	2 42	20 38	0 15	21 4	0 6	16 33	1 25	4 46	1 25	20 56	1 41	6 19	0 37	8 58	0 47	20 54	1 32	3 10	2 39	5 23	0 22	4 9			
S 14	13 17	10 26	3 44	20 31	0 23	20 53	0 3	16 41	1 25	4 49	1 26	20 56	1 41	6 20	0 37	8 57	0 47	20 54	1 32	3 9	2 40	5 25	0 21	4 9			
M15	12 57	13 46	4 31	20 22	0 32	20 42	0s 0	16 48	1 25	4 51	1 26	20 56	1 41	6 21	0 36	8 56	0 47	20 54	1 32	3 9	2 41	5 27	0 20	4 9			
T 16	12 36	16 15	5 2	20 13	0 40	20 30	0 3	16 56	1 25	4 54	1 26	20 57	1 41	6 22	0 36	8 55	0 47	20 54	1 31	3 9	2 43	5 28	0 18	4 9			
W17	12 15	17 46	5 14	20 2	0 47	20 17	0 6	17 3	1 24	4 57	1 26	20 57	1 41	6 23	0 36	8 55	0 47	20 54	1 31	3 9	2 44	5 30	0 17	4 9			
T 18	11 54	18 15	5 9	19 50	0 55	20 4	0 9	17 10	1 24	5 0	1 26	20 57	1 41	6 24	0 36	8 54	0 47	20 53	1 31	3 10	2 45	5 32	0 16	4 8			
F 19	11 33	17 44	4 48	19 37	1 2	19 51	0 12	17 17	1 24	5 3	1 26	20 57	1 41	6 25	0 36	8 53	0 47	20 53	1 31	3 12	2 46	5 34	0 15	4 8			
S 20	11 12	16 17	4 12	19 22	1 9	19 36	0 14	17 24	1 23	5 5	1 27	20 58	1 41	6 26	0 36	8 52	0 47	20 53	1 31	3 13	2 48	5 35	0 14	4 8			
S 21	10 50	14 3	3 24	19 6	1 15	19 21	0 17	17 30	1 23	5 8	1 27	20 58	1 41	6 27	0 36	8 51	0 47	20 53	1 31	3 14	2 49	5 37	0 12	4 8			
M22	10 29	11 10	2 27	18 49	1 21	19 6	0 20	17 37	1 23	5 11	1 27	20 58	1 41	6 28	0 36	8 50	0 47	20 53	1 31	3 15	2 50	5 39	0 11	4 8			
T 23	10 7	7 51	1 24	18 31	1 27	18 50	0 23	17 43	1 22	5 14	1 27	20 58	1 42	6 29	0 36	8 50	0 47	20 53	1 31	3 16	2 51	5 41	0 10	4 8			
W24	9 45	4 14	0 17	18 11	1 33	18 33	0 25	17 50	1 22	5 17	1 27	20 59	1 42	6 30	0 36	8 49	0 47	20 53	1 31	3 16	2 53	5 43	0 8	4 8			
T 25	9 23	0 30	0n49	17 50	1 38	18 16	0 28	17 56	1 21	5 20	1 27	20 59	1 42	6 31	0 36	8 48	0 47	20 53	1 31	3 16	2 54	5 44	0 7	4 8			
F 26	9 1	3s14	1 53	17 28	1 43	17 59	0 30	18 2	1 21	5 23	1 27	20 59	1 42	6 32	0 36	8 47	0 47	20 52	1 31	3 16	2 55	5 46	0 6	4 8			
S 27	8 38	6 47	2 51	17 4	1 47	17 41	0 33	18 9	1 20	5 26	1 28	20 59	1 42	6 34	0 36	8 46	0 47	20 52	1 31	3 15	2 56	5 48	0 5	4 7			
S 28	8 16	10 5	3 42	16 39	1 51	17 22	0 35	18 15	1 20	5 29	1 28	20 59	1 42	6 35	0 36	8 45	0 47	20 52	1 31	3 15	2 58	5 50	0 3	4 7			
M29	7s53	12s58	4n24	16s13	1s55	17s 3	0s38	18s20	1n20	5n33	1n28	20s59	1n42	6n36	0s36	8s44	0s47	20s52	1n31	3n14	2n59	5s51	0s 2	4n 7			

Julian Day Number = 245

ASTRODIENST EPHEMERIS for the year 2016

geocentric

MARCH 2016

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	10 36 55	10 ^h 49'59"	0 ^h 2	22 ^h 51	15 ^h 51	28 ^h 3	19 ^h 16	15 ^h 55	18 ^h 17	9 ^h 32	16 ^h 54	21 ^h 50	22 ^h 26	20 ^h 56	20 ^h 25	T 1
W 2	10 40 52	11 ^h 50'11"	12 ^h 13	24 ^h 26	17 ^h 5	28 ^h 26	19 ^h 9	15 ^h 57	18 ^h 20	9 ^h 34	16 ^h 56	21 ^h 51	22 ^h 23	21 ^h 2	20 ^h 28	W 2
T 3	10 44 48	12 ^h 50'22"	24 ^h 42	26 ^h 2	18 ^h 20	28 ^h 50	19 ^h 1	15 ^h 59	18 ^h 23	9 ^h 37	16 ^h 57	21 ^h 51	22 ^h 20	21 ^h 9	20 ^h 32	T 3
F 4	10 48 45	13 ^h 50'32"	7 ^h 31	27 ^h 39	19 ^h 34	29 ^h 13	18 ^h 53	16 ^h 1	18 ^h 26	9 ^h 39	16 ^h 59	21 ^h 50	22 ^h 16	21 ^h 16	20 ^h 36	F 4
S 5	10 52 41	14 ^h 50'40"	20 ^h 44	29 ^h 17	20 ^h 48	29 ^h 35	18 ^h 45	16 ^h 3	18 ^h 29	9 ^h 41	17 ^h 0	21 ^h 49	22 ^h 13	21 ^h 22	20 ^h 39	S 5
S 6	10 56 38	15 ^h 50'46"	4 ^h 23	0 ^h 56	22 ^h 2	29 ^h 58	18 ^h 38	16 ^h 5	18 ^h 32	9 ^h 44	17 ^h 1	21 ^h 48	22 ^h 10	21 ^h 29	20 ^h 43	S 6
M 7	11 0 34	16 ^h 50'51"	18 ^h 29	2 ^h 37	23 ^h 17	0 ^h 20	18 ^h 30	16 ^h 7	18 ^h 35	9 ^h 46	17 ^h 2	21 ^h 48	22 ^h 7	21 ^h 36	20 ^h 47	M 7
T 8	11 4 31	17 ^h 50'54"	2 ^h 58	4 ^h 18	24 ^h 31	0 ^h 41	18 ^h 22	16 ^h 9	18 ^h 38	9 ^h 48	17 ^h 4	21 ^h 47	22 ^h 4	21 ^h 42	20 ^h 50	T 8
W 9	11 8 27	18 ^h 50'55"	17 ^h 45	6 ^h 1	25 ^h 45	1 ^h 3	18 ^h 14	16 ^h 11	18 ^h 41	9 ^h 50	17 ^h 5	21 ^h 47	22 ^h 0	21 ^h 49	20 ^h 54	W 9
T 10	11 12 24	19 ^h 50'55"	2 ^h 43	7 ^h 44	26 ^h 59	1 ^h 24	18 ^h 6	16 ^h 12	18 ^h 44	9 ^h 53	17 ^h 6	21 ^h 47	21 ^h 57	21 ^h 56	20 ^h 58	T 10
F 11	11 16 21	20 ^h 50'52"	17 ^h 43	9 ^h 29	28 ^h 14	1 ^h 44	17 ^h 58	16 ^h 14	18 ^h 48	9 ^h 55	17 ^h 7	21 ^h 47	21 ^h 54	22 ^h 2	21 ^h 1	F 11
S 12	11 20 17	21 ^h 50'47"	2 ^h 39	11 ^h 15	29 ^h 28	2 ^h 5	17 ^h 51	16 ^h 15	18 ^h 51	9 ^h 57	17 ^h 8	21 ^h 47	21 ^h 51	22 ^h 9	21 ^h 5	S 12
S 13	11 24 10	22 ^h 50'40"	17 ^h 21	13 ^h 2	0 ^h 42	2 ^h 25	17 ^h 43	16 ^h 17	18 ^h 54	9 ^h 59	17 ^h 9	21 ^h 47	21 ^h 48	22 ^h 16	21 ^h 9	S 13
M14	11 28 10	23 ^h 50'31"	1 ^h 45	14 ^h 50	1 ^h 56	2 ^h 44	17 ^h 35	16 ^h 18	18 ^h 57	10 ^h 2	17 ^h 10	21 ^h 47	21 ^h 45	22 ^h 22	21 ^h 12	M14
T 15	11 32 7	24 ^h 50'20"	15 ^h 48	16 ^h 40	3 ^h 11	3 ^h 3	17 ^h 27	16 ^h 19	19 ^h 0	10 ^h 4	17 ^h 11	21 ^h 47	21 ^h 41	22 ^h 29	21 ^h 16	T 15
W16	11 36 3	25 ^h 50'06"	29 ^h 28	18 ^h 30	4 ^h 25	3 ^h 22	17 ^h 20	16 ^h 20	19 ^h 3	10 ^h 6	17 ^h 12	21 ^h 47	21 ^h 38	22 ^h 36	21 ^h 20	W16
T 17	11 40 0	26 ^h 49'50"	12 ^h 54	20 ^h 22	5 ^h 39	3 ^h 40	17 ^h 12	16 ^h 21	19 ^h 7	10 ^h 8	17 ^h 13	21 ^h 47	21 ^h 35	22 ^h 42	21 ^h 23	T 17
F 18	11 43 56	27 ^h 49'32"	25 ^h 47	22 ^h 15	6 ^h 53	3 ^h 58	17 ^h 4	16 ^h 22	19 ^h 10	10 ^h 10	17 ^h 14	21 ^h 48	21 ^h 32	22 ^h 49	21 ^h 27	F 18
S 19	11 47 53	28 ^h 49'12"	8 ^h 30	24 ^h 9	8 ^h 7	4 ^h 16	16 ^h 57	16 ^h 22	19 ^h 13	10 ^h 13	17 ^h 15	21 ^h 48	21 ^h 29	22 ^h 56	21 ^h 31	S 19
S 20	11 51 50	29 ^h 48'49"	20 ^h 58	26 ^h 4	9 ^h 22	4 ^h 33	16 ^h 49	16 ^h 23	19 ^h 16	10 ^h 15	17 ^h 16	21 ^h 49	21 ^h 26	23 ^h 2	21 ^h 34	S 20
M21	11 55 46	0 ^h 48'24"	3 ^h 14	28 ^h 1	10 ^h 36	4 ^h 49	16 ^h 42	16 ^h 23	19 ^h 20	10 ^h 17	17 ^h 17	21 ^h 50	21 ^h 22	23 ^h 9	21 ^h 38	M21
T 22	11 59 43	1 ^h 47'57"	15 ^h 20	29 ^h 58	11 ^h 50	5 ^h 6	16 ^h 34	16 ^h 24	19 ^h 23	10 ^h 19	17 ^h 18	21 ^h 50	21 ^h 19	23 ^h 16	21 ^h 41	T 22
W23	12 3 39	2 ^h 47'28"	27 ^h 19	1 ^h 57	13 ^h 4	5 ^h 21	16 ^h 27	16 ^h 24	19 ^h 26	10 ^h 21	17 ^h 19	21 ^h 50	21 ^h 16	23 ^h 22	21 ^h 45	W23
T 24	12 7 36	3 ^h 46'57"	9 ^h 13	3 ^h 57	14 ^h 18	5 ^h 37	16 ^h 20	16 ^h 24	19 ^h 30	10 ^h 23	17 ^h 19	21 ^h 50	21 ^h 13	23 ^h 29	21 ^h 49	T 24
F 25	12 11 32	4 ^h 46'23"	2 ^h 4	5 ^h 57	15 ^h 32	5 ^h 51	16 ^h 13	16 ^h 24	19 ^h 33	10 ^h 26	17 ^h 20	21 ^h 48	21 ^h 10	23 ^h 36	21 ^h 52	F 25
S 26	12 15 29	5 ^h 45'48"	2 ^h 53	7 ^h 58	16 ^h 47	6 ^h 6	16 ^h 6	16 ^h 24	19 ^h 36	10 ^h 28	17 ^h 21	21 ^h 47	21 ^h 6	23 ^h 42	21 ^h 56	S 26
S 27	12 19 25	6 ^h 45'11"	14 ^h 43	10 ^h 0	18 ^h 1	6 ^h 20	15 ^h 59	16 ^h 24	19 ^h 40	10 ^h 30	17 ^h 22	21 ^h 44	21 ^h 3	23 ^h 49	21 ^h 59	S 27
M28	12 23 22	7 ^h 44'32"	26 ^h 37	12 ^h 2	19 ^h 15	6 ^h 33	15 ^h 52	16 ^h 24	19 ^h 43	10 ^h 32	17 ^h 22	21 ^h 42	21 ^h 0	23 ^h 56	22 ^h 3	M28
T 29	12 27 19	8 ^h 43'52"	8 ^h 39	14 ^h 5	20 ^h 29	6 ^h 46	15 ^h 45	16 ^h 24	19 ^h 46	10 ^h 34	17 ^h 23	21 ^h 40	20 ^h 57	24 ^h 2	22 ^h 7	T 29
W30	12 31 15	9 ^h 43'09"	20 ^h 50	16 ^h 8	21 ^h 43	6 ^h 58	15 ^h 39	16 ^h 23	19 ^h 50	10 ^h 36	17 ^h 23	21 ^h 38	20 ^h 54	24 ^h 9	22 ^h 10	W30
T 31	12 35 12	10 ^h 42'25"	3 ^h 16	18 ^h 10	22 ^h 57	7 ^h 10	15 ^h 32	16 ^h 23	19 ^h 53	10 ^h 38	17 ^h 24	21 ^h 37	20 ^h 51	24 ^h 16	22 ^h 14	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	decl	lat
T 1	7s30	15s21	4n55	15s46	1s59	16s43	0s40	18s26	1n19	5n36	1n28	21s 0	1n42	6n37	0s36	8s44	0s48	20s52	1n31	3n14	3n 0	5s53	0s 1	4n 7									
W 2	7 7	17 5	5 13	15 17	2 2	16 23	0 43	18 32	1 19	5 39	1 28	21 0	1 42	6 38	0 36	8 43	0 48	20 52	1 31	3 14	3 1	5 55	0n 1	4 7									
T 3	6 44	18 3	5 17	14 47	2 4	16 3	0 45	18 38	1 18	5 42	1 28	21 0	1 43	6 39	0 36	8 42	0 48	20 52	1 31	3 14	3 3	5 57	0 2	4 7									
F 4	6 21	18 8	5 6	14 16	2 6	15 42	0 47	18 43	1 17	5 45	1 28	21 0	1 43	6 40	0 36	8 41	0 48	20 52	1 30	3 14	3 4	5 58	0 3	4 7									
S 5	5 58	17 15	4 38	13 13	2 8	15 20	0 49	18 48	1 17	5 48	1 28	21 0	1 43	6 41	0 36	8 40	0 48	20 52	1 30	3 15	3 5	6 0	0 5	4 7									
S 6	5 35	15 22	3 54	13 10	2 10	14 58	0 52	18 54	1 16	5 51	1 28	21 0	1 43	6 43	0 36	8 39	0 48	20 51	1 30	3 15	3 6	6 2	0 6	4 7									
M 7	5 12	12 31	2 55	12 34	2 11	14 36	0 54	18 59	1 16	5 54	1 28	21 0	1 43	6 44	0 36	8 38	0 48	20 51	1 30	3 15	3 8	6 4	0 8	4 7									
T 8	4 48	8 49	1 43	11 58	2 11	14 13	0 56	19 4	1 15	5 57	1 28	21 0	1 43	6 45	0 36	8 38	0 48	20 51	1 30	3 15	3 9	6 5	0 9	4 7									
W 9	4 25	4 30	0 22	11 21	2 12	13 50	0 58	19 9	1 14	6 1	1 29	21 0	1 43	6 46	0 36	8 37	0 48	20 51	1 30	3 15	3 10	6 7	0 10	4 6									
T 10	4 1	0n 9	1s 0	10 42	2 11	13 27	1 0	19 14	1 14	6 4	1 29	21 0	1 43	6 47	0 36	8 36	0 48	20 51	1 30	3 15	3 11	6 9	0 12	4 6									
F 11	3 38	4 48	2 19	10 2	2 11	13 3	1 2	19 19	1 13	6 7	1 29	21 0	1 43	6 48	0 36	8 35	0 48	20 51	1 30	3 15	3 13	6 11	0 13	4 6									
S 12	3 14	9 7	3 28	9 20	2 9	12 39	1 4	19 23	1 12	6 10	1 29	21 0	1 44	6 50	0 36	8 34	0 48	20 51	1 30	3 15	3 14	6 12	0 14	4 6									
S 13	2 50	12 48	4 22	8 38	2 8	12 14	1 5	19 28	1 12	6 13	1 29	21 0	1 44	6 51	0 36	8 33	0 48	20 51	1 30	3 15	3 15	6 14	0 16	4 6									
M14	2 27	15 38	4 59	7 54	2 6	11 50	1 7	19 33	1 11	6 16	1 29	21 0	1 44	6 52	0 36	8 33	0 48	20 51	1 30	3 15	3 16	6 16	0 17	4 6									
T 15	2 3	17 26	5 16	7 9	2 3	11 24	1 9	19 37	1 10	6 19	1 29	21 0	1 44	6 53	0 36	8 32	0 48	20 51	1 30	3 16	3 18	6 18	0 19	4 6									
W16	1 39	18 11	5 15	6 23	2 0	10 59	1 10	19 41	1 9	6 22	1 29	21 0	1 44	6 55	0 36	8 31	0 48	20 51	1 30	3 16	3 19	6 20	0 20	4 6									
T 17	1 16	17 54	4 57	5 36	1 56	10 33	1 12	19 46	1 9	6 25	1 29	21 0	1 44	6 56	0 36	8 30	0 48	20 51	1 30	3 15	3 20	6 21	0 21	4 6									
F 18	0 52	16 40	4 24	4 47	1 52	10 7	1 13	19 50	1 8	6 28	1 29	21 0	1 44	6 57	0 36	8 29	0 48	20 50	1 30	3 15	3 21	6 23	0 23	4 6									
S 19	0 28	14 37	3 38	3 58	1 47	9 41	1 15	19 54	1 7	6 31	1 29	21 0	1 44	6 58	0 36	8 29	0 48	20 50	1 30	3 15	3 23	6 25	0 24	4 6									
S 20	0 4	11 56	2 43	3 7	1 42	9 14	1 16	19 58	1 6	6 34	1 29	21 0	1 45	7 0	0 36	8 28	0 48	20 50	1 30	3 15	3 24	6 27	0 26	4 6									
M21	0n19	8 44	1 42	2 16	1 37	8 47	1 18	20 2	1 5	6 37	1 29	21 0	1 45	7 1	0 36	8 27	0 48	20 50	1 30	3 14	3 25	6 28	0 27	4 6									
T 22	0 43	5 13	0 36	1 24	1 30	8 20	1 19	20 6	1 4	6 40	1 29	21 0	1 45	7 2	0 36	8 26	0 48	20 50	1 29	3 14	3 26	6 30	0 28	4 6									
W23	1 7	1 32	0n30	0 30	1 24	7 53	1 20	20 9	1 3	6 42	1 29	21 0	1 45	7 3	0 36	8 25	0 48	20 50	1 29	3 14	3 28	6 32	0 30	4 6									
T 24	1 30	2s12	1 35	0n24	1 16	7 25	1 21	20 13	1 2	6 45	1 29	21 0	1 45	7 5	0 36	8 25	0 48	20 50	1 29	3 14	3 29	6 34	0 31	4 6									
F 25	1 54	5 49	2 35	1 19	8	6 58	1 22	20 17	1 1	6 48	1 29	21 0	1 45	7 6	0 36	8 24	0 48	20 50	1 29	3 15	3 30	6 35	0 33	4 6									
S 26	2 17	9 12	3 28	2 14	1 0	6 30	1 23	20 20	1 0	6 51	1 28	21 0	1 45	7 7	0 36	8 23	0 48	20 50	1 29	3 16	3 31	6 37	0 34	4 6									
S 27	2 41	12 13	4 13	3 11	0 51	6 2	1 24	20 24	0 59	6 53	1 28	21 0	1 45	7 8	0 36	8 22	0 48	20 50	1 29	3 17	3 33	6 39	0 35	4 6									
M28	3 4	14 45	4 46	4 7	0 42	5 33	1 25	20 27	0 58	6 56	1 28	20 59	1 45	7 10	0 36	8 21	0 48	20 50	1 29	3 18	3 34	6 41	0 37	4 6									
T 29	3 28	16 40	5 8	5 4	0 32	5 5	1 26	20 30	0 56	6 58	1 28	20 59	1 46	7 11	0 36	8 21	0 48	20 50	1 29	3 18	3 35	6 42	0 38	4 6									
W30	3 51	17 52	5 16	6 0	0 32	4 36	1 26	20 34	0 55	7 1	1 28	20 59	1 46	7 12	0 36	8 20	0 48	20 50	1 29	3 19	3 36	6 44	0 40	4 6									
T 31	4n14	18s14	5n 9	6n57	0s11	4s 8	1s27	20s37	0n54	7n 3	1n28	20s59	1n46	7n14	0s36	8s19	0s48	20s50	1n29	3n20	3n38	6s46	0n41	4n 6									

ASTRODIENST EPHEMERIS for the year 2016

geocentric

APRIL 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	12 39 8	11°41'39	16°30'0	20°12'11	24°11'11	7°21'21	15°R26	16°R22	19°V57	10°H40	17°B25	21°D37	20°M47	24°A22	22°K17	F 1
S 2	12 43 5	12°40'51	29°0'6	22°14'22	25°26'25	7°31'7	15°M19	16°A21	20°0'0	10°42'10	17°25'17	21°M37	20°44'20	24°29'24	22°21'22	S 2
S 3	12 47 1	13°40'01	12°37'37	24°14'24	26°40'26	7°41'7	15°13'15	16°21'16	20°3'20	10°44'10	17°26'17	21°39'21	20°41'20	24°36'24	22°24'22	S 3
M 4	12 50 58	14°39'10	26°35'26	26°12'27	27°54'27	7°51'7	15°7'15	16°20'16	20°7'20	10°46'10	17°26'17	21°40'21	20°38'20	24°42'24	22°27'22	M 4
T 5	12 54 54	15°38'16	10°H59	28°9'29	29°8'8	8°0'0	15°1'16	16°19'16	20°10'20	10°48'10	17°26'17	21°41'21	20°35'20	24°49'24	22°31'22	T 5
W 6	12 58 51	16°37'21	25°46'08	4'00	0°V22	8°8'8	14°55'14	16°18'16	20°14'20	10°50'10	17°27'17	21°R41	20°31'20	24°56'24	22°34'22	W 6
T 7	13 2 47	17°36'24	10°V51	1°56'1	1°36'1	8°15'8	14°50'14	16°16'16	20°17'20	10°52'10	17°27'17	21°40'21	20°28'20	25°2'2	22°38'22	T 7
F 8	13 6 44	18°35'25	26°5'3	3°45'3	2°50'2	8°22'8	14°44'14	16°15'16	20°21'20	10°54'10	17°27'17	21°38'21	20°25'20	25°9'2	22°41'22	F 8
S 9	13 10 41	19°34'24	11°B17	5°31'4	4°4'4	8°28'8	14°39'14	16°14'16	20°24'20	10°56'10	17°28'17	21°35'21	20°22'20	25°16'2	22°44'22	S 9
S 10	13 14 37	20°33'21	26°18'26	7°13'7	5°18'5	8°34'8	14°34'14	16°12'16	20°27'20	10°57'10	17°28'17	21°31'21	20°19'20	25°22'2	22°48'22	S 10
M 11	13 18 34	21°32'16	11°II0	8°51'8	6°33'6	8°39'8	14°29'14	16°11'16	20°31'20	10°59'10	17°28'17	21°27'21	20°16'20	25°29'2	22°51'22	M 11
T 12	13 22 30	22°31'08	25°17'25	10°25'10	7°47'7	8°43'8	14°24'14	16°9'16	20°34'20	11°1'11	17°28'17	21°23'21	20°12'20	25°36'2	22°54'22	T 12
W 13	13 26 27	23°29'58	9°B6	11°55'11	9°1'9	8°47'8	14°19'14	16°7'16	20°38'20	11°3'11	17°29'17	21°21'21	20°9'20	25°42'2	22°58'22	W 13
T 14	13 30 23	24°28'46	22°28'22	13°19'13	10°15'10	8°50'8	14°14'14	16°6'16	20°41'20	11°5'11	17°29'17	21°D20	20°6'20	25°49'2	23°1'2	T 14
F 15	13 34 20	25°27'32	5°A25	14°39'14	11°29'11	8°52'8	14°10'14	16°4'16	20°45'20	11°6'11	17°29'17	21°20'21	20°3'20	25°56'2	23°4'2	F 15
S 16	13 38 16	26°26'15	18°0'0	15°54'15	12°43'12	8°53'8	14°6'14	16°2'16	20°48'20	11°8'11	17°29'17	21°22'21	20°0'20	26°2'2	23°7'2	S 16
S 17	13 42 13	27°24'56	0°M19	17°3'13	13°57'13	8°54'8	14°1'14	15°59'15	20°51'20	11°10'11	17°29'17	21°23'21	19°57'19	26°9'2	23°11'2	S 17
M 18	13 46 10	28°23'35	12°25'12	18°7'15	15°11'15	8°R54	13°58'13	15°57'15	20°55'20	11°12'11	17°R29	21°25'21	19°53'19	26°16'2	23°14'2	M 18
T 19	13 50 6	29°22'11	24°22'19	19°6'16	16°25'16	8°53'8	13°54'13	15°55'15	20°58'20	11°13'11	17°29'17	21°R25	19°50'19	26°22'2	23°17'2	T 19
W 20	13 54 3	0°B20'46	6°A13	19°59'19	17°39'17	8°52'8	13°50'13	15°53'15	21°2'21	11°15'11	17°29'17	21°24'21	19°47'19	26°29'2	23°20'2	W 20
T 21	13 57 59	1°19'18	18°2'2	20°46'20	18°53'18	8°50'8	13°47'13	15°50'15	21°5'21	11°17'11	17°29'17	21°21'21	19°44'19	26°36'2	23°23'2	T 21
F 22	14 1 56	2°17'49	29°51'21	21°28'20	20°7'7	8°47'8	13°43'13	15°48'15	21°8'21	11°18'11	17°29'17	21°16'21	19°41'19	26°42'2	23°26'2	F 22
S 23	14 5 52	3°16'18	11°M43	22°3'21	21°21'21	8°43'8	13°40'13	15°45'15	21°12'21	11°20'11	17°29'17	21°9'21	19°37'19	26°49'2	23°29'2	S 23
S 24	14 9 49	4°14'44	23°37'22	22°33'22	22°35'22	8°38'8	13°37'13	15°42'15	21°15'21	11°21'11	17°29'17	21°1'21	19°34'19	26°56'2	23°32'2	S 24
M 25	14 13 45	5°13'10	5°A38	22°57'22	23°49'23	8°33'8	13°35'13	15°40'15	21°19'21	11°23'11	17°28'17	20°53'20	19°31'19	27°2'2	23°35'2	M 25
T 26	14 17 42	6°11'33	17°46'6	23°15'23	25°2'2	8°27'8	13°32'13	15°37'15	21°22'21	11°24'11	17°28'17	20°45'20	19°28'19	27°9'2	23°38'2	T 26
W 27	14 21 39	7°9'55	0°B3	23°28'23	26°16'26	8°20'8	13°30'13	15°34'15	21°25'21	11°26'11	17°28'17	20°38'20	19°25'19	27°16'2	23°41'2	W 27
T 28	14 25 35	8°8'15	12°32'23	23°35'23	27°30'27	8°13'8	13°28'13	15°31'15	21°29'21	11°27'11	17°28'17	20°33'20	19°22'19	27°22'2	23°43'2	T 28
F 29	14 29 32	9°6'33	25°16'23	23°R36	28°44'28	8°5'8	13°26'13	15°28'15	21°32'21	11°29'11	17°27'17	20°30'20	19°18'19	27°29'2	23°46'2	F 29
S 30	14 33 28	10°B4'51	8°A18	23°B32	29°V58	7°56'7	13°M24	15°A25	21°V35	11°H30	17°B27	20°D29	19°M15	27°A36	23°H49	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	decl	lat
F 1	4n37	17s43	4n48	7n53	0s 0	3s39	1s28	20s40	0n53	7n 6	1n28	20s59	1n46	7n15	0s36	8s18	0s48	20s50	1n29	3n20	3n39	6s47	0n42	4n 6					
S 2	5 1	16 14	4 11	8 49	0n11	3 10	1 28	20 43	0 51	7 8	1 28	20 59	1 46	7 16	0 36	8 18	0 48	20 50	1 29	3 19	3 40	6 49	0 44	4 6					
S 3	5 24	13 50	3 19	9 44	0 22	2 41	1 29	20 46	0 50	7 10	1 28	20 59	1 46	7 17	0 36	8 17	0 48	20 50	1 29	3 19	3 41	6 51	0 45	4 6					
M 4	5 46	10 33	2 14	10 38	0 34	2 12	1 29	20 49	0 49	7 13	1 28	20 58	1 46	7 19	0 36	8 16	0 48	20 50	1 29	3 18	3 43	6 53	0 46	4 6					
T 5	6 9	6 32	0 59	11 31	0 45	1 43	1 29	20 52	0 47	7 15	1 28	20 58	1 46	7 20	0 36	8 15	0 48	20 50	1 29	3 18	3 44	6 54	0 48	4 6					
W 6	6 32	2 1	0s22	12 23	0 57	1 13	1 30	20 54	0 46	7 17	1 28	20 58	1 46	7 21	0 36	8 15	0 48	20 50	1 29	3 18	3 45	6 56	0 49	4 6					
T 7	6 55	2n42	1 44	13 12	1 8	0 44	1 30	20 57	0 44	7 19	1 27	20 58	1 47	7 23	0 36	8 14	0 48	20 50	1 29	3 18	3 46	6 58	0 51	4 6					
F 8	7 17	7 18	2 58	14 1	1 19	0 15	1 30	21 0	0 43	7 21	1 27	20 57	1 47	7 24	0 36	8 13	0 48	20 50	1 29	3 19	3 48	7 0	0 52	4 6					
S 9	7 39	11 25	4 0	14 47	1 30	0n15	1 30	21 2	0 41	7 23	1 27	20 57	1 47	7 25	0 36	8 13	0 48	20 50	1 29	3 20	3 49	7 1	0 53	4 6					
S 10	8 2	14 43	4 44	15 30	1 41	0 44	1 30	21 5	0 39	7 25	1 27	20 57	1 47	7 26	0 36	8 12	0 48	20 50	1 29	3 22	3 50	7 3	0 55	4 6					
M11	8 24	17 0	5 8	16 12	1 51	1 13	1 30	21 7	0 38	7 27	1 27	20 57	1 47	7 28	0 36	8 11	0 48	20 50	1 28	3 24	3 51	7 5	0 56	4 6					
T 12	8 46	18 9	5 13	16 51	2 1	1 43	1 30	21 9	0 36	7 29	1 27	20 56	1 47	7 29	0 36	8 11	0 48	20 50	1 28	3 25	3 53	7 7	0 57	4 6					
W13	9 7	18 10	4 59	17 28	2 10	2 12	1 30	21 12	0 34	7 30	1 27	20 56	1 47	7 30	0 36	8 10	0 48	20 50	1 28	3 26	3 54	7 8	0 59	4 6					
T 14	9 29	17 9	4 28	18 2	2 18	2 41	1 29	21 14	0 33	7 32	1 26	20 56	1 47	7 32	0 35	8 9	0 48	20 50	1 28	3 26	3 55	7 10	1 0	4 6					
F 15	9 51	15 16	3 45	18 33	2 25	3 11	1 29	21 16	0 31	7 33	1 26	20 56	1 47	7 33	0 35	8 9	0 48	20 50	1 28	3 26	3 56	7 12	1 1	4 6					
S 16	10 12	12 42	2 53	19 1	2 32	3 40	1 28	21 18	0 29	7 35	1 26	20 55	1 47	7 34	0 35	8 8	0 48	20 50	1 28	3 25	3 58	7 14	1 3	4 6					
S 17	10 33	9 36	1 53	19 27	2 38	4 9	1 28	21 20	0 27	7 36	1 26	20 55	1 47	7 36	0 35	8 7	0 48	20 50	1 28	3 25	3 59	7 15	1 4	4 7					
M18	10 54	6 9	0 49	19 50	2 43	4 38	1 27	21 22	0 25	7 38	1 26	20 55	1 48	7 37	0 35	8 7	0 48	20 50	1 28	3 24	4 0	7 17	1 5	4 7					
T 19	11 15	2 29	0n16	20 10	2 47	5 7	1 27	21 24	0 23	7 39	1 26	20 54	1 48	7 38	0 35	8 6	0 48	20 50	1 28	3 24	4 1	7 19	1 7	4 7					
W20	11 35	1s15	1 20	20 28	2 50	5 36	1 26	21 26	0 21	7 40	1 26	20 54	1 48	7 39	0 35	8 6	0 49	20 50	1 28	3 25	4 3	7 20	1 8	4 7					
T 21	11 56	4 55	2 20	20 42	2 52	6 5	1 25	21 28	0 19	7 42	1 25	20 54	1 48	7 41	0 35	8 5	0 49	20 50	1 28	3 26	4 4	7 22	1 9	4 7					
F 22	12 16	8 24	3 14	20 54	2 53	6 33	1 25	21 30	0 16	7 43	1 25	20 53	1 48	7 42	0 35	8 4	0 49	20 50	1 28	3 28	4 5	7 24	1 10	4 7					
S 23	12 36	11 33	3 59	21 3	2 52	7 2	1 24	21 31	0 14	7 44	1 25	20 53	1 48	7 43	0 35	8 4	0 49	20 50	1 28	3 30	4 6	7 26	1 12	4 7					
S 24	12 56	14 15	4 34	21 9	2 51	7 30	1 23	21 33	0 12	7 45	1 25	20 53	1 48	7 44	0 35	8 3	0 49	20 51	1 28	3 34	4 8	7 27	1 13	4 7					
M25	13 16	16 21	4 58	21 13	2 48	7 58	1 22	21 34	0 9	7 46	1 25	20 52	1 48	7 46	0 35	8 3	0 49	20 51	1 28	3 37	4 9	7 29	1 14	4 7					
T 26	13 35	17 46	5 8	21 13	2 44	8 26	1 21	21 36	0 7	7 46	1 24	20 52	1 48	7 47	0 35	8 2	0 49	20 51	1 28	3 40	4 10	7 31	1 15	4 7					
W27	13 54	18 22	5 4	21 11	2 38	8 54	1 20	21 37	0 5	7 47	1 24	20 52	1 48	7 48	0 35	8 2	0 49	20 51	1 28	3 43	4 11	7 33	1 17	4 7					
T 28	14 13	18 6	4 46	21 7	2 32	9 22	1 19	21 38	0 2	7 48	1 24	20 51	1 48	7 49	0 35	8 1	0 49	20 51	1 28	3 45	4 13	7 34	1 18	4 7					
F 29	14 32	16 55	4 14	20 59	2 24	9 49	1 17	21 39	0s0	7 48	1 24	20 51	1 48	7 51	0 35	8 1	0 49	20 51	1 28	3 46	4 14	7 36	1 19	4 8					
S 30	14n50	14s51	3n28	20n49	2n15	10n16	1s16	21s41	0s 3	7n49	1n24	20s50	1n48	7n52	0s35	8s 0	0s49	20s51	1n27	3n46	4n15	7s38	1n20	4n 8					

Julian Day Number = 2457479.5, Delta T = 68.23 sec

Ecliptic obliquity = 23°26'05, Nutation = - 0°00'03, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°58'02, Lahiri = 24°05'03

ASTRODIENST EPHEMERIS for the year 2016

geocentric

JUNE 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	16 39 38	10 ^{II} 56'09	13 ^V 39	17 ^{III} 38	9 ^{II} 20	28°R29	14 ^{III} 0	13°R17	23 ^V 10	12 ^{II} 0	17°R 3	18°R 1	17 ^{III} 34	1 ^{III} 9	24 ^{II} 56	W 1
T 2	16 43 35	11°53'39	28°18	18°20	10°34	28 ^{III} 9	14° 4	13 ^{II} 13	23°13	12° 0	17 ^{II} 2	17 ^{III} 57	17°30	1°16	24°58	T 2
F 3	16 47 31	12°51'09	13 ^{II} 8	19° 7	11°47	27°49	14° 8	13° 8	23°15	12° 0	17° 0	17°51	17°27	1°23	24°59	F 3
S 4	16 51 28	13°48'38	28° 7	19°57	13° 1	27°30	14°13	13° 4	23°18	12° 1	16°59	17°42	17°24	1°29	25° 0	S 4
S 5	16 55 24	14°46'06	13 ^{II} 2	20°51	14°15	27°12	14°17	12°59	23°20	12° 1	16°58	17°31	17°21	1°36	25° 2	S 5
M 6	16 59 21	15°43'33	27°46	21°48	15°29	26°53	14°22	12°55	23°23	12° 1	16°57	17°20	17°18	1°43	25° 3	M 6
T 7	17 3 17	16°40'59	12 ^{II} 10	22°49	16°42	26°35	14°27	12°50	23°25	12° 2	16°56	17° 9	17°14	1°49	25° 4	T 7
W 8	17 7 14	17°38'24	26° 8	23°53	17°56	26°18	14°32	12°46	23°27	12° 2	16°54	17° 0	17°11	1°56	25° 5	W 8
T 9	17 11 10	18°35'48	9 ^{II} 39	25° 0	19°10	26° 2	14°37	12°42	23°30	12° 2	16°53	16°54	17° 8	2° 3	25° 6	T 9
F 10	17 15 7	19°33'11	22°42	26°11	20°24	25°46	14°42	12°37	23°32	12° 2	16°52	16°51	17° 5	2°10	25° 7	F 10
S 11	17 19 4	20°30'33	5 ^{III} 21	27°25	21°37	25°30	14°47	12°33	23°34	12° 2	16°51	16°49	17° 2	2°16	25° 8	S 11
S 12	17 23 0	21°27'54	17°40	28°42	22°51	25°16	14°53	12°28	23°36	12° 2	16°49	16°49	16°59	2°23	25° 9	S 12
M13	17 26 57	22°25'14	29°43	0 ^{II} 2	24° 5	25° 2	14°59	12°24	23°39	12° 2	16°48	16°49	16°55	2°30	25° 9	M13
T 14	17 30 53	23°22'33	11 ^{II} 37	1°25	25°19	24°48	15° 5	12°20	23°41	12°R 2	16°47	16°48	16°52	2°36	25°10	T 14
W15	17 34 50	24°19'51	23°27	2°52	26°32	24°36	15°11	12°15	23°43	12° 2	16°45	16°45	16°49	2°43	25°11	W15
T 16	17 38 46	25°17'09	5 ^{III} 17	4°21	27°46	24°24	15°17	12°11	23°45	12° 2	16°44	16°40	16°46	2°50	25°11	T 16
F 17	17 42 43	26°14'25	17°11	5°53	29° 0	24°13	15°23	12° 7	23°47	12° 2	16°43	16°32	16°43	2°56	25°12	F 17
S 18	17 46 39	27°11'41	29°13	7°28	0 ^{II} 13	24° 3	15°29	12° 3	23°49	12° 2	16°41	16°21	16°40	3° 3	25°13	S 18
S 19	17 50 36	28° 8'56	11 ^{II} 24	9° 6	1°27	23°53	15°36	11°59	23°51	12° 2	16°40	16° 9	16°36	3°10	25°13	S 19
M20	17 54 33	29° 6'11	23°47	10°48	2°41	23°45	15°43	11°54	23°53	12° 2	16°39	15°56	16°33	3°16	25°14	M20
T 21	17 58 29	0 ^{II} 3'25	6 ^{II} 22	12°31	3°54	23°37	15°49	11°50	23°54	12° 2	16°37	15°44	16°30	3°23	25°14	T 21
W22	18 2 26	1° 0'38	19° 8	14°18	5° 8	23°30	15°56	11°46	23°56	12° 1	16°36	15°33	16°27	3°30	25°14	W22
T 23	18 6 22	1°57'52	2 ^{II} 6	16° 8	6°22	23°24	16° 3	11°42	23°58	12° 1	16°34	15°25	16°24	3°36	25°14	T 23
F 24	18 10 19	2°55'05	15°15	18° 0	7°36	23°18	16°11	11°38	24° 0	12° 1	16°33	15°19	16°20	3°43	25°15	F 24
S 25	18 14 15	3°52'18	28°36	19°55	8°49	23°14	16°18	11°34	24° 1	12° 0	16°31	15°16	16°17	3°50	25°15	S 25
S 26	18 18 12	4°49'30	12 ^{II} 8	21°52	10° 3	23°10	16°25	11°30	24° 3	12° 0	16°30	15°D15	16°14	3°57	25°15	S 26
M27	18 22 8	5°46'43	25°53	23°52	11°17	23° 7	16°33	11°26	24° 4	12° 0	16°29	15°15	16°11	4° 3	25°R15	M27
T 28	18 26 5	6°43'56	9 ^{II} 50	25°54	12°30	23° 5	16°41	11°23	24° 6	11°59	16°27	15°R15	16° 8	4°10	25°15	T 28
W29	18 30 2	7°41'09	24° 0	27°58	13°44	23° 4	16°48	11°19	24° 7	11°59	16°26	15°14	16° 5	4°17	25°15	W29
T 30	18 33 58	8°38'22	8 ^{II} 22	0 ^{II} 3	14°58	23°D 3	16 ^{III} 56	11 ^{II} 15	24 ^V 9	11 ^{II} 58	16°24	15 ^{III} 11	16 ^{III} 1	4 ^{III} 23	25 ^{II} 15	T 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
W 1	22n 5	3n22	2s11	13n28	3s46	21n37	0s14	21s25	1s38	7n29	1n17	20s36	1n48	8n27	0s36	7s50	0s50	20s56	1n25	4n44	4n55	8s32	1n51	4n12			
T 2	22 13	7 49	3 16	13 41	3 45	21 50	0 12	21 23	1 41	7 27	1 17	20 35	1 48	8 28	0 36	7 50	0 50	20 56	1 25	4 46	4 56	8 34	1 51	4 12			
F 3	22 20	11 50	4 8	13 55	3 43	22 2	0 10	21 21	1 44	7 25	1 17	20 35	1 48	8 29	0 36	7 50	0 50	20 57	1 25	4 48	4 57	8 36	1 52	4 12			
S 4	22 27	15 8	4 43	14 12	3 40	22 14	0 7	21 20	1 46	7 23	1 17	20 34	1 48	8 30	0 36	7 50	0 50	20 57	1 25	4 52	4 59	8 37	1 53	4 12			
S 5	22 34	17 24	5 0	14 29	3 36	22 25	0 5	21 18	1 49	7 22	1 17	20 34	1 48	8 31	0 36	7 49	0 50	20 57	1 25	4 56	5 0	8 39	1 53	4 13			
M 6	22 40	18 29	4 56	14 48	3 32	22 36	0 3	21 16	1 52	7 20	1 16	20 33	1 48	8 31	0 36	7 49	0 50	20 57	1 25	5 0	5 1	8 41	1 54	4 13			
T 7	22 46	18 21	4 33	15 8	3 27	22 46	0 0	21 14	1 54	7 18	1 16	20 33	1 48	8 32	0 36	7 49	0 50	20 57	1 25	5 4	5 2	8 43	1 55	4 13			
W 8	22 52	17 5	3 54	15 29	3 21	22 55	0n 2	21 13	1 57	7 15	1 16	20 32	1 48	8 33	0 36	7 49	0 50	20 58	1 25	5 8	5 4	8 44	1 55	4 13			
T 9	22 57	14 53	3 3	15 52	3 15	23 4	0 5	21 11	1 59	7 13	1 16	20 32	1 48	8 34	0 36	7 49	0 50	20 58	1 25	5 10	5 5	8 46	1 56	4 13			
F 10	23 1	11 59	2 4	16 15	3 8	23 12	0 7	21 10	2 2	7 11	1 16	20 32	1 48	8 35	0 36	7 49	0 50	20 58	1 25	5 12	5 6	8 48	1 56	4 14			
S 11	23 6	8 37	1 0	16 39	3 0	23 20	0 9	21 8	2 4	7 9	1 15	20 31	1 48	8 36	0 36	7 49	0 50	20 58	1 25	5 12	5 7	8 49	1 57	4 14			
S 12	23 10	4 57	0n 4	17 4	2 52	23 26	0 12	21 7	2 6	7 7	1 15	20 31	1 47	8 36	0 36	7 49	0 50	20 59	1 25	5 12	5 9	8 51	1 57	4 14			
M13	23 13	1 9	1 8	17 29	2 44	23 32	0 14	21 6	2 8	7 4	1 15	20 30	1 47	8 37	0 36	7 49	0 50	20 59	1 25	5 12	5 10	8 53	1 58	4 14			
T 14	23 16	2s38	2 7	17 55	2 35	23 38	0 16	21 4	2 10	7 2	1 15	20 30	1 47	8 38	0 36	7 49	0 50	20 59	1 24	5 13	5 11	8 54	1 58	4 14			
W15	23 19	6 18	3 1	18 21	2 25	23 42	0 19	21 3	2 12	6 59	1 15	20 29	1 47	8 39	0 36	7 49	0 51	20 59	1 24	5 14	5 12	8 56	1 59	4 14			
T 16	23 21	9 43	3 47	18 47	2 15	23 46	0 21	21 2	2 14	6 57	1 14	20 29	1 47	8 39	0 36	7 49	0 51	21 0	1 24	5 16	5 13	8 58	1 59	4 15			
F 17	23 23	12 45	4 23	19 14	2 5	23 49	0 23	21 1	2 16	6 54	1 14	20 28	1 47	8 40	0 36	7 49	0 51	21 0	1 24	5 19	5 15	8 59	1 59	4 15			
S 18	23 24	15 18	4 48	19 40	1 55	23 52	0 26	21 1	2 18	6 51	1 14	20 28	1 47	8 41	0 36	7 50	0 51	21 0	1 24	5 23	5 16	9 1	2 0	4 15			
S 19	23 25	17 12	5 0	20 6	1 44	23 54	0 28	21 0	2 20	6 49	1 14	20 27	1 47	8 41	0 36	7 50	0 51	21 0	1 24	5 28	5 17	9 3	2 0	4 15			
M20	23 26	18 20	4 58	20 32	1 33	23 55	0 30	21 0	2 22	6 46	1 14	20 27	1 47	8 42	0 36	7 50	0 51	21 1	1 24	5 33	5 18	9 4	2 1	4 15			
T 21	23 26	18 35	4 42	20 57	1 21	23 55	0 32	20 59	2 24	6 43	1 14	20 27	1 46	8 43	0 36	7 50	0 51	21 1	1 24	5 37	5 20	9 6	2 1	4 15			
W22	23 26	17 55	4 11	21 22	1 10	23 55	0 35	20 59	2 25	6 40	1 13	20 26	1 46	8 43	0 36	7 50	0 51	21 1	1 24	5 42	5 21	9 8	2 1	4 16			
T 23	23 25	16 19	3 28	21 45	0 58	23 54	0 37	20 59	2 27	6 37	1 13	20 26	1 46	8 44	0 36	7 50	0 51	21 1	1 24	5 45	5 22	9 9	2 1	4 16			
F 24	23 24	13 50	2 32	22 7	0 46	23 52	0 39	20 59	2 28	6 34	1 13	20 25	1 46	8 45	0 36	7 50	0 51	21 2	1 24	5 47	5 23	9 11	2 2	4 16			
S 25	23 23	10 36	1 27	22 29	0 35	23 50	0 41	20 59	2 30	6 31	1 13	20 25	1 46	8 45	0 36	7 50	0 51	21 2	1 24	5 48	5 25	9 13	2 2	4 16			
S 26	23 21	6 45	0 17	22 48	0 23	23 46	0 43	21 0	2 31	6 28	1 13	20 25	1 46	8 46	0 36	7 51	0 51	21 2	1 23	5 49	5 26	9 14	2 2	4 16			
M27	23 19	2 30	0s56	23 6	0 11	23 43	0 45	21 0	2 32	6 25	1 13	20 24	1 46	8 46	0 36	7 51	0 51	21 2	1 23	5 49	5 27	9 16	2 2	4 16			
T 28	23 16	1n57	2 7	23 22	0 0	23 38	0 47	21 1	2 34	6 22	1 12	20 24	1 46	8 47	0 36	7 51	0 51	21 3	1 23	5 49	5 28	9 18	2 2	4 17			
W29	23 13	6 21	3 11	23 36	0n11	23 33	0 49	21 2	2 35	6 19	1 12	20 24	1 45	8 47	0 36	7 51	0 51	21 3	1 23	5 49	5 29	9 19	2 3	4 17			
T 30	23n 9	10n27	4s 4	23n48	0n22	23n27	0n51	21s 3	2s36	6n16	1n12	20s23	1n45	8n48	0s36	7s51	0s51	21s 3	1n23	5n50	5n31	9s21	2n 3	4n17			

ASTRODIENST EPHEMERIS for the year 2016

geocentric

JULY 2016

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	18 37 55	9°35'35	22°52	2°50	16°12	23°4	17°4	11°R12	24°Y10	11°R58	16°R23	15°R 6	15°58	4°30	25°R15	F 1	
S 2	18 41 51	10°32'49	7°12	4°19	17°25	23° 5	17°13	11°8	24°12	11°57	16°21	14°58	15°55	4°37	25°14	S 2	
S 3	18 45 48	11°30'02	21°59	6°28	18°39	23° 7	17°21	11° 4	24°13	11°57	16°20	14°49	15°52	4°43	25°14	S 3	
M 4	18 49 44	12°27'16	6°22	8°38	19°53	23°10	17°29	11° 1	24°14	11°56	16°18	14°39	15°49	4°50	25°14	M 4	
T 5	18 53 41	13°24'29	20°30	10°48	21° 7	23°14	17°38	10°58	24°15	11°55	16°17	14°30	15°46	4°57	25°13	T 5	
W 6	18 57 37	14°21'43	4°17	12°58	22°20	23°18	17°46	10°54	24°17	11°55	16°15	14°23	15°42	5° 3	25°13	W 6	
T 7	19 1 34	15°18'56	17°42	15° 9	23°34	23°24	17°55	10°51	24°18	11°54	16°14	14°17	15°39	5°10	25°13	T 7	
F 8	19 5 31	16°16'10	0°42	17°18	24°48	23°30	18° 4	10°48	24°19	11°53	16°12	14°14	15°36	5°17	25°12	F 8	
S 9	19 9 27	17°13'23	13°21	19°27	26° 2	23°37	18°13	10°45	24°20	11°52	16°11	14°D13	15°33	5°23	25°11	S 9	
S 10	19 13 24	18°10'36	25°41	21°36	27°15	23°44	18°22	10°41	24°21	11°52	16° 9	14°14	15°30	5°30	25°11	S 10	
M11	19 17 20	19° 7'49	7°46	23°43	28°29	23°53	18°31	10°38	24°22	11°51	16° 8	14°15	15°26	5°37	25°10	M11	
T 12	19 21 17	20° 5'02	19°41	25°49	29°43	24° 2	18°40	10°36	24°23	11°50	16° 6	14°R15	15°23	5°44	25° 9	T 12	
W13	19 25 13	21° 2'15	1°33	27°53	0°57	24°12	18°50	10°33	24°24	11°49	16° 5	14°15	15°20	5°50	25° 9	W13	
T 14	19 29 10	21°59'28	13°25	29°56	2°10	24°22	18°59	10°30	24°24	11°48	16° 3	14°12	15°17	5°57	25° 8	T 14	
F 15	19 33 6	22°56'41	25°22	1°57	3°24	24°33	19° 9	10°27	24°25	11°47	16° 2	14° 8	15°14	6° 4	25° 7	F 15	
S 16	19 37 3	23°53'54	7°28	3°57	4°38	24°45	19°18	10°25	24°26	11°46	16° 1	14° 1	15°11	6°10	25° 6	S 16	
S 17	19 41 0	24°51'07	19°47	5°55	5°52	24°58	19°28	10°22	24°26	11°45	15°59	13°54	15° 7	6°17	25° 5	S 17	
M18	19 44 56	25°48'21	2°21	7°52	7° 5	25°11	19°38	10°20	24°27	11°44	15°58	13°45	15° 4	6°24	25° 4	M18	
T 19	19 48 53	26°45'35	15°10	9°46	8°19	25°25	19°48	10°17	24°28	11°43	15°56	13°37	15° 1	6°30	25° 3	T 19	
W20	19 52 49	27°42'49	28°15	11°39	9°33	25°40	19°58	10°15	24°28	11°42	15°55	13°30	14°58	6°37	25° 2	W20	
T 21	19 56 46	28°40'04	11°34	13°30	10°47	25°55	20° 8	10°13	24°29	11°41	15°53	13°24	14°55	6°44	25° 0	T 21	
F 22	20 0 42	29°37'19	25° 7	15°19	12° 0	26°11	20°18	10°11	24°29	11°40	15°52	13°21	14°52	6°50	24°59	F 22	
S 23	20 4 39	0°34'35	8°50	17° 6	13°14	26°28	20°28	10° 9	24°29	11°39	15°50	13°D20	14°48	6°57	24°58	S 23	
S 24	20 8 35	1°31'52	22°42	18°52	14°28	26°45	20°39	10° 7	24°30	11°38	15°49	13°20	14°45	7° 4	24°57	S 24	
M25	20 12 32	2°29'10	6°47	20°36	15°41	27° 2	20°49	10° 5	24°30	11°37	15°48	13°21	14°42	7°11	24°55	M25	
T 26	20 16 29	3°26'28	20°47	22°18	16°55	27°20	21° 0	10° 3	24°30	11°36	15°46	13°22	14°39	7°17	24°54	T 26	
W27	20 20 25	4°23'48	4°57	23°58	18° 9	27°39	21°10	10° 1	24°30	11°34	15°45	13°R23	14°36	7°24	24°52	W27	
T 28	20 24 22	5°21'08	19°10	25°37	19°23	27°59	21°21	10° 0	24°30	11°33	15°43	13°22	14°32	7°31	24°51	T 28	
F 29	20 28 18	6°18'30	3°12	27°14	20°36	28°18	21°32	9°58	24°30	11°32	15°42	13°20	14°29	7°37	24°49	F 29	
S 30	20 32 15	7°15'53	17°35	28°49	21°50	28°39	21°42	9°57	24°R30	11°31	15°41	13°16	14°26	7°44	24°48	S 30	
S 31	20 36 11	8°13'17	1°40	0°42	23°4	29°4	21°53	9°55	24°Y30	11°29	15°39	13°11	14°23	7°51	24°46	S 31	

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	23n 5	13n57	4s41	23n57	0n32	23n20	0n53	21s 4	2s37	6n12	1n12	20s23	1n45	8n48	0s36	7s52	F 1
S 2	23 1	16 36	5 1	24 4	0 42	23 13	0 55	21 6	2 38	6 9	1 12	20 23	1 45	8 49	0 36	7 52	S 2
S 3	22 56	18 11	5 1	24 8	0 51	23 5	0 57	21 7	2 39	6 6	1 12	20 22	1 45	8 49	0 36	7 52	S 3
M 4	22 51	18 35	4 42	24 9	1 0	22 56	0 59	21 9	2 40	6 2	1 11	20 22	1 45	8 50	0 37	7 52	M 4
T 5	22 46	17 49	4 6	24 8	1 8	22 47	1 1	21 11	2 41	5 59	1 11	20 22	1 44	8 50	0 37	7 53	T 5
W 6	22 40	16 0	3 17	24 3	1 15	22 37	1 2	21 13	2 42	5 55	1 11	20 21	1 44	8 51	0 37	7 53	W 6
T 7	22 33	13 21	2 17	23 56	1 22	22 26	1 4	21 15	2 43	5 52	1 11	20 21	1 44	8 51	0 37	7 53	T 7
F 8	22 27	10 6	1 12	23 46	1 28	22 14	1 6	21 17	2 44	5 48	1 11	20 21	1 44	8 51	0 37	7 54	F 8
S 9	22 20	6 28	0 5	23 34	1 34	22 2	1 7	21 20	2 45	5 45	1 11	20 20	1 44	8 52	0 37	7 54	S 9
S 10	22 12	2 39	1n 1	23 19	1 38	21 50	1 9	21 22	2 45	5 41	1 11	20 20	1 44	8 52	0 37	7 54	S 10
M 11	22 4	1s12	2 3	23 1	1 42	21 37	1 10	21 25	2 46	5 37	1 10	20 20	1 43	8 52	0 37	7 55	M 11
T 12	21 56	4 57	2 59	22 42	1 45	21 23	1 12	21 28	2 46	5 33	1 10	20 20	1 43	8 53	0 37	7 55	T 12
W 13	21 47	8 28	3 46	22 20	1 47	21 8	1 13	21 31	2 47	5 30	1 10	20 19	1 43	8 53	0 37	7 55	W 13
T 14	21 38	11 39	4 24	21 56	1 49	20 53	1 15	21 34	2 48	5 26	1 10	20 19	1 43	8 53	0 37	7 56	T 14
F 15	21 29	14 23	4 51	21 30	1 49	20 37	1 16	21 37	2 48	5 22	1 10	20 19	1 43	8 54	0 37	7 56	F 15
S 16	21 19	16 32	5 5	21 2	1 49	20 21	1 17	21 41	2 49	5 18	1 10	20 19	1 42	8 54	0 37	7 56	S 16
S 17	21 9	17 58	5 5	20 33	1 49	20 4	1 18	21 44	2 49	5 14	1 10	20 19	1 42	8 54	0 37	7 57	S 17
M 18	20 59	18 34	4 51	20 2	1 48	19 47	1 19	21 48	2 49	5 10	1 10	20 19	1 42	8 54	0 37	7 57	M 18
T 19	20 48	18 14	4 22	19 30	1 46	19 29	1 21	21 52	2 50	5 6	1 9	20 18	1 42	8 54	0 37	7 58	T 19
W 20	20 37	16 56	3 39	18 57	1 43	19 10	1 22	21 56	2 50	5 2	1 9	20 18	1 42	8 55	0 37	7 58	W 20
T 21	20 25	14 42	2 43	18 22	1 40	18 51	1 23	21 59	2 50	4 58	1 9	20 18	1 41	8 55	0 37	7 59	T 21
F 22	20 14	11 37	1 37	17 47	1 37	18 31	1 23	22 4	2 51	4 54	1 9	20 18	1 41	8 55	0 37	7 59	F 22
S 23	20 1	7 53	0 24	17 11	1 33	18 11	1 24	22 8	2 51	4 50	1 9	20 18	1 41	8 55	0 37	7 59	S 23
S 24	19 49	3 40	0s51	16 34	1 28	17 51	1 25	22 12	2 51	4 46	1 9	20 18	1 41	8 55	0 37	8 0	S 24
M 25	19 36	0n46	2 3	15 56	1 23	17 30	1 26	22 16	2 51	4 41	1 9	20 18	1 41	8 55	0 37	8 0	M 25
T 26	19 23	5 11	3 9	15 18	1 18	17 8	1 26	22 21	2 52	4 37	1 9	20 18	1 40	8 55	0 37	8 1	T 26
W 27	19 9	9 20	4 4	14 39	1 12	16 46	1 27	22 25	2 52	4 33	1 8	20 18	1 40	8 55	0 37	8 1	W 27
T 28	18 56	12 57	4 44	14 0	1 6	16 23	1 27	22 30	2 52	4 29	1 8	20 18	1 40	8 55	0 37	8 2	T 28
F 29	18 42	15 49	5 6	13 21	0 59	16 0	1 28	22 34	2 52	4 24	1 8	20 18	1 40	8 55	0 37	8 2	F 29
S 30	18 27	17 42	5 10	12 42	0 52	15 37	1 28	22 39	2 52	4 20	1 8	20 18	1 40	8 55	0 37	8 3	S 30
S 31	18n12	18n30	4s55	12n 2	0n44	15n13	1n29	22s44	2s52	4n16	1n 8	20s18	1n39	8n55	0s37	8s 3	S 31

Julian Day Number = 2457570.5, Delta T = 68.35 sec
 Ecliptic obliquity = 23°26'04, Nutation = -0°00'04, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°58'15, Lahiri = 24°05'15

ASTRODIENST EPHEMERIS for the year 2016
geocentric

AUGUST 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	20 40 8	9♏10'42	15♊36	1♊54	24♏18	29♏21	22♊4	9°R54	24°R30	11°R28	15°R38	13°R 6	14♊20	7♏57	24°R44	M 1	
T 2	20 44 4	10° 8'07	29°19	3°23	25°31	29°43	22°15	9°R53	24°Y30	11°R27	15°R37	13♊1	14°17	8° 4	24°R43	T 2	
W 3	20 48 1	11° 5'34	12♏46	4°51	26°45	0°R 6	22°26	9°52	24°30	11°25	15°35	12°57	14°13	8°11	24°41	W 3	
T 4	20 51 58	12° 3'02	25°55	6°17	27°59	0°29	22°38	9°51	24°30	11°24	15°34	12°54	14°10	8°18	24°39	T 4	
F 5	20 55 54	13° 0'30	8♊46	7°42	29°13	0°52	22°49	9°50	24°30	11°23	15°33	12°D53	14° 7	8°24	24°37	F 5	
S 6	20 59 51	13°57'59	21°18	9° 4	0♊26	1°16	23° 0	9°49	24°29	11°21	15°31	12°53	14° 4	8°31	24°35	S 6	
S 7	21 3 47	14°55'29	3♊35	10°25	1°40	1°41	23°11	9°49	24°29	11°20	15°30	12°54	14° 1	8°38	24°33	S 7	
M 8	21 7 44	15°53'00	15°40	11°43	2°54	2° 6	23°23	9°48	24°28	11°18	15°29	12°56	13°58	8°44	24°31	M 8	
T 9	21 11 40	16°50'32	27°36	13° 0	4° 7	2°31	23°34	9°48	24°28	11°17	15°28	12°58	13°54	8°51	24°29	T 9	
W10	21 15 37	17°48'04	9♏28	14°15	5°21	2°57	23°46	9°47	24°27	11°15	15°27	12°59	13°51	8°58	24°27	W10	
T 11	21 19 33	18°45'38	21°20	15°27	6°35	3°23	23°58	9°47	24°27	11°14	15°25	12°R59	13°48	9° 4	24°25	T 11	
F 12	21 23 30	19°43'12	3♊18	16°38	7°49	3°49	24° 9	9°47	24°26	11°12	15°24	12°58	13°45	9°11	24°23	F 12	
S 13	21 27 27	20°40'47	15°26	17°46	9° 2	4°16	24°21	9°D47	24°26	11°11	15°23	12°56	13°42	9°18	24°21	S 13	
S 14	21 31 23	21°38'24	27°49	18°51	10°16	4°44	24°33	9°47	24°25	11° 9	15°22	12°54	13°38	9°24	24°19	S 14	
M15	21 35 20	22°36'01	10♊28	19°55	11°30	5°12	24°45	9°47	24°24	11° 8	15°21	12°51	13°35	9°31	24°17	M15	
T 16	21 39 16	23°33'39	23°27	20°55	12°43	5°40	24°56	9°47	24°23	11° 6	15°20	12°48	13°32	9°38	24°14	T 16	
W17	21 43 13	24°31'19	6♊46	21°53	13°57	6° 8	25° 8	9°47	24°23	11° 5	15°19	12°46	13°29	9°45	24°12	W17	
T 18	21 47 9	25°28'59	20°25	22°49	15°10	6°37	25°20	9°48	24°22	11° 3	15°18	12°44	13°26	9°51	24°10	T 18	
F 19	21 51 6	26°26'41	4♊20	23°41	16°24	7° 6	25°32	9°48	24°21	11° 2	15°17	12°43	13°23	9°58	24° 7	F 19	
S 20	21 55 2	27°24'25	18°30	24°30	17°38	7°36	25°44	9°49	24°20	11° 0	15°16	12°D43	13°19	10° 5	24° 5	S 20	
S 21	21 58 59	28°22'09	2°Y48	25°16	18°51	8° 6	25°57	9°50	24°19	10°58	15°15	12°43	13°16	10°11	24° 3	S 21	
M22	22 2 56	29°19'56	17°12	25°58	20° 5	8°36	26° 9	9°50	24°18	10°57	15°14	12°44	13°13	10°18	24° 0	M22	
T 23	22 6 52	0♊17'44	1♊36	26°37	21°19	9° 7	26°21	9°51	24°16	10°55	15°13	12°45	13°10	10°25	23°58	T 23	
W24	22 10 49	1°15'33	15°57	27°12	22°32	9°38	26°33	9°52	24°15	10°54	15°12	12°46	13° 7	10°31	23°55	W24	
T 25	22 14 45	2°13'25	0♊12	27°42	23°46	10° 9	26°45	9°53	24°14	10°52	15°11	12°R46	13° 3	10°38	23°53	T 25	
F 26	22 18 42	3°11'18	14°18	28° 8	24°59	10°41	26°58	9°54	24°13	10°50	15°10	12°46	13° 0	10°45	23°50	F 26	
S 27	22 22 38	4° 9'13	28°13	28°30	26°13	11°12	27°10	9°56	24°12	10°49	15° 9	12°46	12°57	10°52	23°48	S 27	
S 28	22 26 35	5° 7'11	11♊56	28°46	27°26	11°45	27°23	9°57	24°10	10°47	15° 8	12°45	12°54	10°58	23°45	S 28	
M29	22 30 31	6° 5'09	25°27	28°58	28°40	12°17	27°35	9°58	24° 9	10°45	15° 7	12°44	12°51	11° 5	23°42	M29	
T 30	22 34 28	7° 3'10	8♏43	29° 4	29°54	12°50	27°47	10° 0	24° 8	10°44	15° 7	12°43	12°48	11°12	23°40	T 30	
W31	22 38 25	8♊1'12	21♏46	29°R 4	1♊ 7	13°R23	28♊0	10°R 2	24°Y 6	10°R42	15°R 6	12♊43	12♊44	11♏18	23°R37	W31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	17n57	18n10	4s23	11n22	0n37	14n49	1n29	22s48	2s52	4n11	1n 8	20s18	1n39	8s55	0s37	8s 4	0s52
T 2	17 42	16 46	3 36	10 42	0 29	14 24	1 29	22 53	2 52	4 7	1 8	20 18	1 39	8 55	0 37	8 4	0 52
W 3	17 26	14 28	2 37	10 3	0 20	13 59	1 29	22 58	2 52	4 2	1 8	20 18	1 39	8 55	0 37	8 5	0 52
T 4	17 11	11 26	1 32	9 23	0 12	13 34	1 29	23 3	2 52	3 58	1 8	20 18	1 39	8 55	0 37	8 6	0 52
F 5	16 54	7 56	0 23	8 43	0 3	13 8	1 29	23 8	2 52	3 53	1 8	20 18	1 38	8 55	0 37	8 6	0 52
S 6	16 38	4 9	0n46	8 4	0s 6	12 42	1 29	23 13	2 52	3 49	1 7	20 18	1 38	8 55	0 37	8 7	0 52
S 7	16 21	0 17	1 51	7 25	0 16	12 16	1 29	23 18	2 52	3 44	1 7	20 18	1 38	8 54	0 37	8 7	0 52
M 8	16 4	3s33	2 50	6 47	0 25	11 49	1 29	23 23	2 52	3 39	1 7	20 18	1 38	8 54	0 37	8 8	0 52
T 9	15 47	7 10	3 41	6 8	0 35	11 22	1 28	23 28	2 51	3 35	1 7	20 19	1 37	8 54	0 37	8 8	0 52
W10	15 30	10 29	4 23	5 31	0 45	10 55	1 28	23 33	2 51	3 30	1 7	20 19	1 37	8 54	0 37	8 9	0 52
T 11	15 12	13 23	4 43	5 53	0 55	10 27	1 28	23 38	2 51	3 26	1 7	20 19	1 37	8 54	0 37	8 10	0 52
F 12	14 54	15 44	5 10	4 17	1 5	9 59	1 27	23 42	2 51	3 21	1 7	20 19	1 37	8 53	0 37	8 10	0 52
S 13	14 36	17 26	5 14	3 41	1 15	9 31	1 27	23 47	2 51	3 16	1 7	20 19	1 37	8 53	0 38	8 11	0 52
S 14	14 17	18 21	5 4	3 6	1 26	9 3	1 26	23 52	2 50	3 11	1 7	20 19	1 36	8 53	0 38	8 11	0 52
M15	13 59	18 23	4 39	2 31	1 36	8 34	1 25	23 57	2 50	3 7	1 7	20 20	1 36	8 52	0 38	8 12	0 52
T 16	13 40	17 28	3 59	1 58	1 47	8 5	1 24	24 2	2 50	3 2	1 7	20 20	1 36	8 52	0 38	8 12	0 52
W17	13 21	15 35	3 6	1 25	1 57	7 36	1 24	24 7	2 50	2 57	1 7	20 20	1 36	8 52	0 38	8 13	0 52
T 18	13 1	12 47	2 0	0 54	2 8	7 7	1 23	24 12	2 49	2 52	1 7	20 20	1 35	8 51	0 38	8 14	0 52
F 19	12 42	9 12	0 46	0 23	2 18	6 37	1 22	24 16	2 49	2 47	1 7	20 21	1 35	8 51	0 38	8 14	0 52
S 20	12 22	5 2	0s32	0s 6	2 29	6 8	1 21	24 21	2 49	2 43	1 6	20 21	1 35	8 51	0 38	8 15	0 52
S 21	12 2	0 33	1 49	0 33	2 39	5 38	1 20	24 26	2 48	2 38	1 6	20 21	1 35	8 50	0 38	8 16	0 53
M22	11 42	3n59	2 59	0 59	2 49	5 8	1 18	24 30	2 48	2 33	1 6	20 22	1 35	8 50	0 38	8 16	0 53
T 23	11 22	8 18	3 59	1 24	2 59	4 38	1 17	24 35	2 48	2 28	1 6	20 22	1 34	8 50	0 38	8 17	0 53
W24	11 1	12 6	4 43	1 47	3 9	4 7	1 16	24 39	2 47	2 23	1 6	20 22	1 34	8 49	0 38	8 17	0 53
T 25	10 41	15 9	5 9	2 8	3 19	3 37	1 14	24 43	2 47	2 18	1 6	20 23	1 34	8 49	0 38	8 18	0 53
F 26	10 20	17 16	5 17	2 27	3 28	3 6	1 13	24 47	2 47	2 13	1 6	20 23	1 34	8 48	0 38	8 19	0 53
S 27	9 59	18 20	5 5	2 43	3 37	2 36	1 11	24 52	2 46	2 8	1 6	20 24	1 33	8 48	0 38	8 19	0 53
S 28	9 38	18 18	4 37	2 57	3 45	2 5	1 10	24 56	2 46	2 3	1 6	20 24	1 33	8 47	0 38	8 20	0 53
M29	9 17	17 14	3 53	3 9	3 53	1 34	1 8	25 0	2 45	1 58	1 6	20 24	1 33	8 47	0 38	8 21	0 53
T 30	8 55	15 13	2 58	3 18	4 0	1 4	1 7	25 3	2 45	1 53	1 6	20 25	1 33	8 46	0 38	8 21	0 53
W31	8n34	12n27	1s54	3s24	4s 6	0n33	1n 5	25s 7	2s44	1n48	1n 6	20s25	1n33	8n46	0s38	8s22	0s53

Julian Day Number = 2457601.5, Delta T = 68.39 sec
Ecliptic obliquity = 23°26'05, Nutation = - 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°58'19, Lahiri = 24°05'19

ASTRODIENST EPHEMERIS for the year 2016

geocentric

SEPTEMBER 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	22 42 21	8♍59°16	4♍35	28°R58	2♎21	13♌56	28♍13	10♌3	24°R 5	10°R40	15°R 5	12°R43	12♍41	11♍25	23°R35	T 1	
F 2	22 46 18	9°57'22	17°10	28♍47	3°34	14°30	28°25	10° 5	24°Y 3	10°K39	15°Z 4	12°D43	12°38	11°32	23°K32	F 2	
S 3	22 50 14	10°55'29	29°32	28°29	4°48	15° 4	28°38	10° 7	24° 2	10°37	15° 4	12♍43	12°35	11°38	23°29	S 3	
S 4	22 54 11	11°53'38	11♎42	28° 4	6° 1	15°38	28°50	10° 9	24° 0	10°35	15° 3	12°43	12°32	11°45	23°27	S 4	
M 5	22 58 7	12°51'48	23°43	27°34	7°15	16°13	29° 3	10°11	23°58	10°34	15° 2	12°R43	12°29	11°52	23°24	M 5	
T 6	23 2 4	13°50'00	5♍38	26°57	8°28	16°47	29°16	10°14	23°57	10°32	15° 2	12°43	12°25	11°59	23°21	T 6	
W 7	23 6 0	14°48'14	17°29	26°15	9°42	17°22	29°28	10°16	23°55	10°31	15° 1	12°43	12°22	12° 5	23°18	W 7	
T 8	23 9 57	15°46'29	29°21	25°27	10°55	17°57	29°41	10°18	23°53	10°29	15° 1	12°42	12°19	12°12	23°16	T 8	
F 9	23 13 53	16°44'45	11♌17	24°34	12° 8	18°33	29°54	10°21	23°51	10°27	15° 0	12°D42	12°16	12°19	23°13	F 9	
S 10	23 17 50	17°43'03	23°24	23°38	13°22	19° 8	0♎7	10°23	23°50	10°26	15° 0	12°42	12°13	12°25	23°10	S 10	
S 11	23 21 47	18°41'23	5♎44	22°39	14°35	19°44	0°20	10°26	23°48	10°24	14°59	12°42	12° 9	12°32	23° 8	S 11	
M12	23 25 43	19°39'44	18°23	21°38	15°49	20°21	0°32	10°29	23°46	10°22	14°59	12°43	12° 6	12°39	23° 5	M12	
T 13	23 29 40	20°38'07	1♎23	20°36	17° 2	20°57	0°45	10°32	23°44	10°21	14°58	12°44	12° 3	12°46	23° 2	T 13	
W14	23 33 36	21°36'32	14°48	19°36	18°15	21°33	0°58	10°34	23°42	10°19	14°58	12°44	12° 0	12°52	22°59	W14	
T 15	23 37 33	22°34'58	28°36	18°38	19°29	22°10	1°11	10°37	23°40	10°18	14°58	12°45	11°57	12°59	22°57	T 15	
F 16	23 41 29	23°33'26	12♌48	17°45	20°42	22°47	1°24	10°41	23°38	10°16	14°57	12°R45	11°54	13° 6	22°54	F 16	
S 17	23 45 26	24°31'55	27°20	16°56	21°55	23°24	1°37	10°44	23°36	10°14	14°57	12°45	11°50	13°12	22°51	S 17	
S 18	23 49 22	25°30'27	12°Y 4	16°14	23° 9	24° 2	1°50	10°47	23°34	10°13	14°57	12°44	11°47	13°19	22°48	S 18	
M19	23 53 19	26°29'00	26°56	15°40	24°22	24°39	2° 3	10°50	23°32	10°11	14°56	12°43	11°44	13°26	22°45	M19	
T 20	23 57 16	27°27'36	11♎45	15°14	25°35	25°17	2°16	10°54	23°30	10°10	14°56	12°41	11°41	13°32	22°43	T 20	
W21	0 1 12	28°26'14	26°26	14°57	26°48	25°55	2°28	10°57	23°28	10° 8	14°56	12°39	11°38	13°39	22°40	W21	
T 22	0 5 9	29°24'54	10♎53	14°D50	28° 2	26°33	2°41	11° 1	23°26	10° 7	14°56	12°38	11°34	13°46	22°37	T 22	
F 23	0 9 5	0♎23'36	25° 2	14°52	29°15	27°12	2°54	11° 5	23°23	10° 5	14°56	12°D37	11°31	13°53	22°35	F 23	
S 24	0 13 2	1°22'21	8♎52	15° 5	0♎28	27°50	3° 7	11° 8	23°21	10° 3	14°56	12°37	11°28	13°59	22°32	S 24	
S 25	0 16 58	2°21'08	22°22	15°27	1°41	28°29	3°20	11°12	23°19	10° 2	14°56	12°38	11°25	14° 6	22°29	S 25	
M26	0 20 55	3°19'57	5♎35	15°59	2°54	29° 8	3°33	11°16	23°17	10° 0	14°56	12°39	11°22	14°13	22°26	M26	
T 27	0 24 51	4°18'49	18°30	16°40	4° 7	29°47	3°46	11°20	23°14	9°59	14°D56	12°41	11°19	14°19	22°24	T 27	
W28	0 28 48	5°17'42	1♎12	17°29	5°21	0♎26	3°59	11°24	23°12	9°58	14°56	12°42	11°15	14°26	22°21	W28	
T 29	0 32 45	6°16'38	13°41	18°26	6°34	1° 5	4°12	11°28	23°10	9°56	14°56	12°R42	11°12	14°33	22°18	T 29	
F 30	0 36 41	7♎15'36	26°Y 0	19°31	7♎47	1♎45	4°25	11°33	23°Y 8	9°K55	14°Z56	12°Y42	11°Y 9	14♎40	22°K16	F 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
T 1	8n12	9n 8	0s45	3s27	4s12	0n 2	1n 3	25s11	2s44	1n43	1n 6	20s26	1n32	8n45	0s38	8s23	0s53	21s20	1n16	6n47	6n48	11s 4	1n29	4n24	
F 2	7 50	5 27	0n25	3 26	4 16	0s29	1 1	25 14	2 43	1 38	1 6	20 26	1 32	8 44	0 38	8 23	0 53	21 20	1 16	6 47	6 49	11 5	1 28	4 24	
S 3	7 28	1 36	1 32	3 22	4 20	1 0	0 59	25 18	2 43	1 33	1 6	20 27	1 32	8 44	0 38	8 24	0 53	21 20	1 16	6 47	6 50	11 7	1 27	4 24	
S 4	7 6	2s16	2 34	3 14	4 22	1 31	0 57	25 21	2 42	1 28	1 6	20 27	1 32	8 43	0 38	8 24	0 53	21 20	1 15	6 47	6 51	11 9	1 26	4 24	
M 5	6 44	5 58	3 28	3 3	4 22	2 2	0 55	25 24	2 42	1 23	1 6	20 28	1 32	8 43	0 38	8 25	0 53	21 20	1 15	6 47	6 53	11 10	1 25	4 24	
T 6	6 21	9 25	4 13	2 47	4 21	2 33	0 53	25 27	2 41	1 18	1 6	20 28	1 31	8 42	0 38	8 26	0 53	21 21	1 15	6 47	6 54	11 12	1 24	4 24	
W 7	5 59	12 27	4 47	2 28	4 19	3 3	0 51	25 30	2 41	1 13	1 6	20 29	1 31	8 41	0 38	8 26	0 53	21 21	1 15	6 47	6 55	11 13	1 23	4 24	
T 8	5 37	14 59	5 9	2 5	4 14	3 34	0 49	25 33	2 40	1 8	1 6	20 29	1 31	8 41	0 38	8 27	0 53	21 21	1 15	6 47	6 56	11 15	1 22	4 24	
F 9	5 14	16 54	5 17	1 38	4 8	4 5	0 47	25 35	2 39	1 3	1 6	20 30	1 31	8 40	0 38	8 28	0 53	21 21	1 15	6 47	6 58	11 17	1 21	4 24	
S 10	4 51	18 5	5 12	1 8	4 0	4 36	0 44	25 38	2 39	0 57	1 6	20 31	1 31	8 39	0 38	8 28	0 53	21 21	1 15	6 47	6 59	11 18	1 19	4 24	
S 11	4 28	18 27	4 52	0 36	3 49	5 6	0 42	25 40	2 38	0 52	1 6	20 31	1 30	8 39	0 38	8 29	0 53	21 21	1 15	6 47	7 0	11 20	1 18	4 23	
M12	4 6	17 55	4 18	0 1	3 37	5 37	0 39	25 42	2 38	0 47	1 6	20 32	1 30	8 38	0 38	8 29	0 53	21 22	1 14	6 47	7 1	11 21	1 17	4 23	
T 13	3 43	16 26	3 30	0n36	3 23	6 7	0 37	25 44	2 37	0 42	1 6	20 32	1 30	8 37	0 38	8 30	0 53	21 22	1 14	6 47	7 2	11 23	1 16	4 23	
W14	3 20	14 1	2 29	1 14	3 8	6 37	0 35	25 46	2 36	0 37	1 6	20 33	1 30	8 37	0 38	8 31	0 53	21 22	1 14	6 47	7 4	11 24	1 15	4 23	
T 15	2 57	10 45	1 18	1 52	2 51	7 8	0 32	25 48	2 36	0 32	1 6	20 34	1 29	8 36	0 38	8 31	0 53	21 22	1 14	6 46	7 5	11 26	1 14	4 23	
F 16	2 33	6 45	0s 0	2 30	2 33	7 38	0 29	25 49	2 35	0 27	1 6	20 34	1 29	8 35	0 38	8 32	0 53	21 22	1 14	6 46	7 6	11 28	1 13	4 23	
S 17	2 10	2 17	1 20	3 6	2 14	8 7	0 27	25 51	2 34	0 22	1 6	20 35	1 29	8 34	0 38	8 33	0 53	21 23	1 14	6 46	7 7	11 29	1 12	4 23	
S 18	1 47	2n23	2 35	3 41	1 54	8 37	0 24	25 52	2 34	0 16	1 6	20 35	1 29	8 34	0 38	8 33	0 53	21 23	1 14	6 47	7 8	11 31	1 10	4 23	
M19	1 24	6 56	3 41	4 12	1 34	9 7	0 21	25 53	2 33	0 11	1 6	20 36	1 29	8 33	0 38	8 34	0 53	21 23	1 13	6 47	7 10	11 32	1 9	4 23	
T 20	1 1	11 3	4 31	4 41	1 14	9 36	0 19	25 53	2 32	0 6	1 6	20 37	1 28	8 32	0 38	8 34	0 53	21 23	1 13	6 48	7 11	11 34	1 8	4 23	
W21	0 37	14 26	5 3	5 5	0 55	10 5	0 16	25 54	2 32	0 1	1 6	20 38	1 28	8 31	0 38	8 35	0 53	21 23	1 13	6 49	7 12	11 35	1 7	4 23	
T 22	0 14	16 52	5 16	5 26	0 36	10 34	0 13	25 54	2 31	0s 4	1 6	20 38	1 28	8 30	0 38	8 35	0 53	21 23	1 13	6 49	7 13	11 37	1 6	4 23	
F 23	0s 9	18 12	5 9	5 42	0 17	11 3	0 10	25 55	2 30	0 9	1 6	20 39	1 28	8 30	0 38	8 36	0 53	21 23	1 13	6 49	7 14	11 39	1 5	4 23	
S 24	0 33	18 25	4 43	5 53	0n 0	11 31	0 8	25 55	2 30	0 14	1 6	20 40	1 28	8 29	0 38	8 37	0 53	21 24	1 13	6 49	7 16	11 40	1 3	4 23	
S 25	0 56	17 35	4 3	5 59	0 17	11 59	0 5	25 54	2 29	0 19	1 6	20 40	1 28	8 28	0 38	8 37	0 53	21 24	1 13	6 49	7 17	11 42	1 2	4 22	
M26	1 19	15 47	3 11	6 1	0 32	12 27	0 2	25 54	2 28	0 25	1 6	20 41	1 27	8 27	0 38	8 38	0 53	21 24	1 13	6 49	7 18	11 43	1 1	4 22	
T 27	1 43	13 13	2 9	5 58	0 46	12 55	0s 1	25 53	2 27	0 30	1 6	20 42	1 27	8 26	0 38	8 38	0 53	21 24	1 12	6 48	7 19	11 45	1 0	4 22	
W28	2 6	10 4	1 3	5 51	0 59	13 22	0 4	25 53	2 27	0 35	1 6	20 43	1 27	8 25	0 38	8 39	0 53	21 24	1 12	6 48	7 21	11 46	0 59	4 22	
T 29	2 30	6 30	0n 5	5 39	1 10	13 49	0 7	25 52	2 26	0 40	1 6	20 43	1 27	8 25	0 38	8 39	0 53	21 24	1 12	6 47	7 22	11 48	0 58	4 22	
F 30	2s53	2n42	1n12	5n23	1n20	14s16	0s10	25s50	2s25	0s45	1n 6	20s44	1n27	8n24	0s38	8s40	0s53	21s24	1n12	6n48	7n23	11s50	0n56	4n22	

ASTRODIENST EPHEMERIS for the year 2016
geocentric

OCTOBER 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 40 38	8♌14'36	8♌ 9	20♍42	9♍ 0	2♌25	4♌38	11♌37	23°R 5	9°R53	14♌56	12°R40	11♍ 6	14♍46	22°R13	S 1
S 2	0 44 34	9°13'38	20°11	21°59	10°13	3° 5	4°51	11°41	23°Y 3	9°X52	14°56	12°36	11° 3	14°53	22°X10	S 2
M 3	0 48 31	10°12'42	21° 8	23°21	11°26	3°45	5° 4	11°46	23° 1	9°50	14°56	12°32	11° 0	15° 0	22° 8	M 3
T 4	0 52 27	11°11'47	14° 0	24°47	12°39	4°25	5°17	11°50	22°58	9°49	14°56	12°27	10°56	15° 6	22° 5	T 4
W 5	0 56 24	12°10'55	25°00	26°18	13°52	5° 5	5°30	11°55	22°56	9°48	14°57	12°22	10°53	15°13	22° 3	W 5
T 6	1 0 20	13°10'05	7♌42	27°51	15° 5	5°46	5°43	12° 0	22°53	9°46	14°57	12°17	10°50	15°20	22° 0	T 6
F 7	1 4 17	14° 9'17	19°37	29°28	16°18	6°26	5°56	12° 4	22°51	9°45	14°57	12°13	10°47	15°26	21°58	F 7
S 8	1 8 13	15° 8'30	1♌41	1♌ 6	17°31	7° 7	6° 9	12° 9	22°49	9°44	14°58	12°11	10°44	15°33	21°55	S 8
S 9	1 12 10	16° 7'45	13°58	2°46	18°44	7°48	6°22	12°14	22°46	9°43	14°58	12°D10	10°40	15°40	21°53	S 9
M10	1 16 7	17° 7'02	26°31	4°28	19°57	8°29	6°35	12°19	22°44	9°41	14°58	12°10	10°37	15°47	21°50	M10
T 11	1 20 3	18° 6'21	9♌26	6°11	21°10	9°10	6°47	12°24	22°41	9°40	14°59	12°11	10°34	15°53	21°48	T 11
W12	1 24 0	19° 5'41	22°45	7°54	22°22	9°51	7° 0	12°29	22°39	9°39	14°59	12°13	10°31	16° 0	21°46	W12
T 13	1 27 56	20° 5'03	6♌32	9°38	23°35	10°33	7°13	12°34	22°36	9°38	15° 0	12°R14	10°28	16° 7	21°43	T 13
F 14	1 31 53	21° 4'27	20°47	11°22	24°48	11°14	7°26	12°40	22°34	9°37	15° 0	12°14	10°25	16°13	21°41	F 14
S 15	1 35 49	22° 3'53	5♍28	13° 6	26° 1	11°56	7°39	12°45	22°32	9°36	15° 1	12°12	10°21	16°20	21°39	S 15
S 16	1 39 46	23° 3'21	20°28	14°51	27°13	12°38	7°51	12°50	22°29	9°34	15° 1	12° 8	10°18	16°27	21°36	S 16
M17	1 43 42	24° 2'51	5♌40	16°35	28°26	13°20	8° 4	12°56	22°27	9°33	15° 2	12° 3	10°15	16°34	21°34	M17
T 18	1 47 39	25° 2'23	20°53	18°19	29°39	14° 1	8°17	13° 1	22°24	9°32	15° 3	11°56	10°12	16°40	21°32	T 18
W19	1 51 36	26° 1'57	5♌56	20° 2	0♌51	14°44	8°30	13° 7	22°22	9°31	15° 3	11°50	10° 9	16°47	21°30	W19
T 20	1 55 32	27° 1'33	20°42	21°45	2° 4	15°26	8°42	13°12	22°19	9°30	15° 4	11°44	10° 6	16°54	21°28	T 20
F 21	1 59 29	28° 1'12	5♌ 3	23°28	3°17	16° 8	8°55	13°18	22°17	9°29	15° 5	11°40	10° 2	17° 0	21°26	F 21
S 22	2 3 25	29° 0'53	18°58	25°10	4°29	16°50	9° 7	13°23	22°14	9°28	15° 5	11°37	9°59	17° 7	21°24	S 22
S 23	2 7 22	0♍ 0'36	2♌28	26°52	5°42	17°33	9°20	13°29	22°12	9°28	15° 6	11°D37	9°56	17°14	21°22	S 23
M24	2 11 18	1° 0'21	15°33	28°33	6°54	18°16	9°32	13°35	22°10	9°27	15° 7	11°38	9°53	17°21	21°20	M24
T 25	2 15 15	2° 0'09	28°17	0♍14	8° 7	18°58	9°45	13°41	22° 7	9°26	15° 8	11°39	9°50	17°27	21°18	T 25
W26	2 19 11	2°59'59	10♍45	1°54	9°19	19°41	9°57	13°47	22° 5	9°25	15° 9	11°R40	9°46	17°34	21°16	W26
T 27	2 23 8	3°59'51	23° 0	3°33	10°32	20°24	10°10	13°53	22° 2	9°24	15°10	11°39	9°43	17°41	21°14	T 27
F 28	2 27 5	4°59'45	5♌ 6	5°12	11°44	21° 7	10°22	13°59	22° 0	9°23	15°10	11°36	9°40	17°47	21°12	F 28
S 29	2 31 1	5°59'41	17° 5	6°51	12°56	21°50	10°35	14° 5	21°58	9°23	15°11	11°31	9°37	17°54	21°10	S 29
S 30	2 34 58	6°59'40	29° 0	8°29	14° 9	22°33	10°47	14°11	21°55	9°22	15°12	11°23	9°34	18° 1	21° 9	S 30
M31	2 38 54	7♍59'40	10♍52	10♍ 6	15♌21	23♌16	10♌59	14♌17	21°Y53	9°X21	15♌13	11♍12	9♍31	18♍ 8	21°X 7	M31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	3s16	1s10	2n15	5n 3	1n29	14s42	0s13	25s49	2s24	0s50	1n 6	20s45	1n26	8n23	0s38	8s40	0s53
S 2	3 39	4 56	3 11	4 39	1 36	15 8	0 16	25 47	2 23	0 55	1 6	20 46	1 26	8 22	0 38	8 41	0 53
M 3	4 3	8 29	3 58	4 12	1 42	15 34	0 19	25 45	2 23	1 1	1 6	20 46	1 26	8 21	0 38	8 41	0 53
T 4	4 26	11 40	4 35	4 43	1 47	15 59	0 22	25 43	2 22	1 6	1 6	20 47	1 26	8 20	0 38	8 42	0 53
W 5	4 49	14 22	4 59	3 10	1 51	16 24	0 25	25 41	2 21	1 11	1 6	20 48	1 26	8 19	0 38	8 42	0 53
T 6	5 12	16 28	5 11	2 36	1 54	16 48	0 28	25 39	2 20	1 16	1 6	20 49	1 25	8 18	0 38	8 43	0 53
F 7	5 35	17 53	5 10	1 59	1 56	17 13	0 31	25 36	2 19	1 21	1 6	20 49	1 25	8 18	0 38	8 43	0 53
S 8	5 58	18 31	4 54	1 21	1 56	17 36	0 34	25 33	2 18	1 26	1 6	20 50	1 25	8 17	0 38	8 44	0 53
S 9	6 21	18 18	4 26	0 41	1 56	18 0	0 37	25 30	2 18	1 31	1 6	20 51	1 25	8 16	0 38	8 44	0 53
M10	6 43	17 11	3 44	0s 0	1 56	18 22	0 41	25 26	2 17	1 36	1 6	20 52	1 25	8 15	0 38	8 45	0 53
T 11	7 6	15 10	2 49	0 42	1 54	18 45	0 44	25 23	2 16	1 41	1 6	20 53	1 25	8 14	0 38	8 45	0 53
W12	7 29	12 17	1 44	1 25	1 52	19 7	0 47	25 19	2 15	1 46	1 6	20 54	1 24	8 13	0 38	8 46	0 53
T 13	7 51	8 38	0 31	2 8	1 49	19 28	0 50	25 15	2 14	1 51	1 6	20 54	1 24	8 12	0 38	8 46	0 53
F 14	8 13	4 22	0s46	2 52	1 46	19 49	0 53	25 10	2 13	1 56	1 6	20 55	1 24	8 11	0 38	8 47	0 53
S 15	8 36	0n17	2 3	3 36	1 43	20 9	0 56	25 6	2 12	2 1	1 6	20 56	1 24	8 10	0 38	8 47	0 53
S 16	8 58	5 1	3 12	4 20	1 38	20 29	0 59	25 1	2 12	2 6	1 6	20 57	1 24	8 9	0 38	8 47	0 53
M17	9 20	9 29	4 9	5 4	1 34	20 49	1 2	24 56	2 11	2 11	1 6	20 58	1 24	8 9	0 38	8 48	0 53
T 18	9 41	13 20	4 48	5 48	1 29	21 8	1 5	24 51	2 10	2 16	1 6	20 59	1 24	8 8	0 38	8 48	0 53
W19	10 3	16 15	5 7	6 32	1 24	21 26	1 8	24 45	2 9	2 21	1 6	20 59	1 23	8 7	0 38	8 49	0 53
T 20	10 25	18 2	5 5	7 16	1 18	21 43	1 11	24 40	2 8	2 26	1 6	21 0	1 23	8 6	0 38	8 49	0 53
F 21	10 46	18 37	4 44	7 59	1 13	22 1	1 14	24 34	2 7	2 31	1 7	21 1	1 23	8 5	0 38	8 49	0 53
S 22	11 7	18 2	4 6	8 42	1 7	22 17	1 16	24 27	2 6	2 36	1 7	21 2	1 23	8 4	0 38	8 50	0 53
S 23	11 28	16 26	3 15	9 24	1 1	22 33	1 19	24 21	2 5	2 41	1 7	21 3	1 23	8 3	0 38	8 50	0 53
M24	11 49	14 0	2 16	10 6	0 55	22 48	1 22	24 14	2 4	2 45	1 7	21 4	1 23	8 2	0 38	8 50	0 53
T 25	12 10	10 57	1 11	10 48	0 48	23 3	1 25	24 7	2 3	2 50	1 7	21 4	1 22	8 1	0 38	8 51	0 52
W26	12 31	7 27	0 5	11 28	0 42	23 17	1 28	24 0	2 2	2 55	1 7	21 5	1 22	8 1	0 38	8 51	0 52
T 27	12 51	3 42	1n 1	12 9	0 35	23 31	1 30	23 53	2 1	3 0	1 7	21 6	1 22	8 0	0 38	8 51	0 52
F 28	13 11	0s 9	2 3	12 48	0 29	23 44	1 33	23 45	2 0	3 5	1 7	21 7	1 22	7 59	0 38	8 51	0 52
S 29	13 31	3 58	2 58	13 27	0 22	23 56	1 36	23 38	1 59	3 9	1 7	21 8	1 22	7 58	0 38	8 52	0 52
S 30	13 51	7 36	3 46	14 5	0 15	24 7	1 38	23 30	1 58	3 14	1 7	21 9	1 22	7 57	0 38	8 52	0 52
M31	14s10	10s55	4n23	14s43	0n 9	24s18	1s41	23s21	1s57	3s19	1n 7	21s 9	1n22	7n56	0s38	8s52	0s52

Julian Day Number = 2457662.5, Delta T = 68.48 sec
Ecliptic obliquity = 23°26'05, Nutation = - 0°00'06, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 24°58'27, Lahiri = 24°05'28

ASTRODIENST EPHEMERIS for the year 2016

geocentric

NOVEMBER 2016

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 42 51	8♉59'42	22♉44	11♉43	16♉33	24♉0	11♉11	14♉23	21♉51	9♉21	15♉14	11♉1	9♉27	18♉14	21♉5	T 1
W 2	2 46 47	9♉59'46	4♉35	13°20	17°45	24°43	11°24	14°29	21°48	9♉20	15°15	10♉49	9°24	18°21	21♉4	W 2
T 3	2 50 44	10°59'51	16°29	14°56	18°58	25°27	11°36	14°36	21°46	9°19	15°17	10°38	9°21	18°28	21°2	T 3
F 4	2 54 40	11°59'59	28°27	16°32	20°10	26°10	11°48	14°42	21°44	9°19	15°18	10°28	9°18	18°34	21°1	F 4
S 5	2 58 37	13° 0'08	10♉32	18° 7	21°22	26°54	12° 0	14°48	21°42	9°18	15°19	10°21	9°15	18°41	20°59	S 5
S 6	3 2 34	14° 0'19	22°47	19°42	22°34	27°38	12°12	14°55	21°39	9°18	15°20	10°16	9°11	18°48	20°58	S 6
M 7	3 6 30	15° 0'31	5♉17	21°16	23°46	28°21	12°24	15° 1	21°37	9°17	15°21	10°14	9° 8	18°55	20°57	M 7
T 8	3 10 27	16° 0'45	18° 5	22°51	24°58	29° 5	12°36	15° 8	21°35	9°17	15°22	10°D13	9° 5	19° 1	20°55	T 8
W 9	3 14 23	17° 1'00	1♉15	24°24	26°10	29°49	12°47	15°14	21°33	9°17	15°24	10°14	9° 2	19° 8	20°54	W 9
T 10	3 18 20	18° 1'16	14°52	25°58	27°22	0♉33	12°59	15°21	21°31	9°16	15°25	10°R14	8°59	19°15	20°53	T 10
F 11	3 22 16	19° 1'34	28°57	27°31	28°34	1°17	13°11	15°27	21°29	9°16	15°26	10°12	8°56	19°21	20°52	F 11
S 12	3 26 13	20° 1'53	13♉31	29° 4	29°45	2° 1	13°22	15°34	21°27	9°16	15°28	10° 9	8°52	19°28	20°51	S 12
S 13	3 30 9	21° 2'14	28°29	0♉36	0♉57	2°46	13°34	15°40	21°25	9°15	15°29	10° 2	8°49	19°35	20°50	S 13
M14	3 34 6	22° 2'37	13♉45	2° 8	2° 9	3°30	13°45	15°47	21°23	9°15	15°30	9°53	8°46	19°42	20°49	M14
T 15	3 38 3	23° 3'01	29° 7	3°40	3°20	4°14	13°57	15°54	21°21	9°15	15°32	9°43	8°43	19°48	20°48	T 15
W16	3 41 59	24° 3'27	14♉24	5°11	4°32	4°58	14° 8	16° 1	21°19	9°15	15°33	9°32	8°40	19°55	20°47	W16
T 17	3 45 56	25° 3'54	29°25	6°43	5°43	5°43	14°19	16° 7	21°17	9°15	15°34	9°22	8°37	20° 2	20°46	T 17
F 18	3 49 52	26° 4'23	14♉6	8°14	6°55	6°27	14°31	16°14	21°15	9°15	15°36	9°14	8°33	20° 8	20°45	F 18
S 19	3 53 49	27° 4'54	28° 8	9°44	8° 6	7°12	14°42	16°21	21°13	9°14	15°37	9° 9	8°30	20°15	20°45	S 19
S 20	3 57 45	28° 5'27	11♉45	11°15	9°17	7°56	14°53	16°28	21°11	9°D14	15°39	9° 6	8°27	20°22	20°44	S 20
M21	4 1 42	29° 6'02	24°53	12°45	10°28	8°41	15° 4	16°35	21° 9	9°14	15°40	9°D 5	8°24	20°29	20°43	M21
T 22	4 5 38	0♉6'38	7♉37	14°15	11°40	9°25	15°15	16°42	21° 8	9°15	15°42	9°R 5	8°21	20°35	20°43	T 22
W23	4 9 35	1° 7'16	20° 1	15°44	12°51	10°10	15°26	16°48	21° 6	9°15	15°44	9° 5	8°17	20°42	20°42	W23
T 24	4 13 32	2° 7'56	2♉10	17°13	14° 2	10°55	15°36	16°55	21° 4	9°15	15°45	9° 3	8°14	20°49	20°42	T 24
F 25	4 17 28	3° 8'37	14° 9	18°42	15°13	11°40	15°47	17° 2	21° 3	9°15	15°47	8°58	8°11	20°55	20°41	F 25
S 26	4 21 25	4° 9'20	26° 2	20°10	16°23	12°24	15°58	17° 9	21° 1	9°15	15°48	8°51	8° 8	21° 2	20°41	S 26
S 27	4 25 21	5°10'04	7♉53	21°38	17°34	13° 9	16° 8	17°16	21° 0	9°15	15°50	8°41	8° 5	21° 9	20°41	S 27
M28	4 29 18	6°10'50	19°44	23° 5	18°45	13°54	16°19	17°23	20°58	9°16	15°52	8°28	8° 2	21°16	20°41	M28
T 29	4 33 14	7°11'37	1♉36	24°32	19°56	14°39	16°29	17°30	20°57	9°16	15°53	8°13	7°58	21°22	20°40	T 29
W30	4 37 11	8♉12'26	13♉32	25♉58	21♉6	15♉24	16♉39	17♉37	20°55	9♉16	15°55	7♉58	7♉55	21♉29	20°40	W30

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	14s30	13s48	4n48	15s19	0n 2	24s28	1s43	23s13	1s56	3s24	1n 7	21s10	1n22	7n55	0s38	8s52	0s52	21s26	1n 8	7n26	8n 1	12s39	0n23	4n16	
W 2	14 49	16 6	5 2	15 55	0s 5	24 38	1 46	23 4	1 55	3 28	1 7	21 11	1 21	7 55	0 38	8 53	0 52	21 26	1 8	7 31	8 3	12 40	0 22	4 15	
T 3	15 7	17 44	5 2	16 30	0 12	24 46	1 48	22 55	1 54	3 33	1 8	21 12	1 21	7 54	0 38	8 53	0 52	21 26	1 8	7 35	8 4	12 42	0 21	4 15	
F 4	15 26	18 37	4 49	17 4	0 18	24 54	1 50	22 46	1 53	3 38	1 8	21 13	1 21	7 53	0 38	8 53	0 52	21 26	1 7	7 38	8 5	12 43	0 21	4 15	
S 5	15 44	18 39	4 23	17 37	0 25	25 2	1 53	22 37	1 52	3 42	1 8	21 14	1 21	7 52	0 38	8 53	0 52	21 26	1 7	7 41	8 6	12 45	0 20	4 15	
S 6	16 2	17 49	3 45	18 10	0 32	25 8	1 55	22 27	1 51	3 47	1 8	21 14	1 21	7 51	0 38	8 53	0 52	21 26	1 7	7 43	8 7	12 46	0 19	4 14	
M 7	16 20	16 7	2 55	18 41	0 38	25 14	1 57	22 17	1 50	3 51	1 8	21 15	1 21	7 50	0 38	8 54	0 52	21 26	1 7	7 44	8 9	12 48	0 18	4 14	
T 8	16 38	13 35	1 55	19 12	0 45	25 19	1 59	22 7	1 49	3 56	1 8	21 16	1 21	7 50	0 38	8 54	0 52	21 26	1 7	7 44	8 10	12 49	0 18	4 14	
W 9	16 55	10 17	0 48	19 42	0 51	25 24	2 1	21 57	1 48	4 0	1 8	21 17	1 21	7 49	0 38	8 54	0 52	21 26	1 7	7 44	8 11	12 51	0 17	4 14	
T 10	17 12	6 20	0s25	20 10	0 57	25 28	2 3	21 46	1 47	4 5	1 8	21 18	1 20	7 48	0 38	8 54	0 52	21 26	1 7	7 44	8 12	12 52	0 16	4 13	
F 11	17 28	1 55	1 38	20 38	1 3	25 31	2 5	21 36	1 46	4 9	1 8	21 19	1 20	7 47	0 38	8 54	0 52	21 26	1 7	7 44	8 13	12 54	0 15	4 13	
S 12	17 45	2n46	2 47	21 4	1 9	25 33	2 7	21 25	1 45	4 14	1 8	21 19	1 20	7 47	0 38	8 54	0 52	21 26	1 6	7 46	8 14	12 55	0 15	4 13	
S 13	18 1	7 24	3 46	21 30	1 15	25 34	2 9	21 14	1 44	4 18	1 9	21 20	1 20	7 46	0 38	8 54	0 52	21 26	1 6	7 48	8 16	12 57	0 14	4 13	
M14	18 17	11 39	4 31	21 55	1 21	25 35	2 10	21 2	1 43	4 22	1 9	21 21	1 20	7 45	0 38	8 54	0 52	21 26	1 6	7 52	8 17	12 58	0 13	4 12	
T 15	18 32	15 8	4 56	22 18	1 27	25 35	2 12	20 51	1 42	4 27	1 9	21 22	1 20	7 44	0 38	8 54	0 52	21 26	1 6	7 55	8 18	12 59	0 13	4 12	
W16	18 47	17 33	5 0	22 40	1 32	25 35	2 13	20 39	1 41	4 31	1 9	21 23	1 20	7 44	0 38	8 54	0 52	21 26	1 6	8 0	8 19	13 1	0 12	4 12	
T 17	19 2	18 43	4 43	23 2	1 37	25 33	2 15	20 27	1 40	4 35	1 9	21 23	1 20	7 43	0 38	8 54	0 52	21 26	1 6	8 3	8 20	13 2	0 12	4 11	
F 18	19 16	18 35	4 8	23 22	1 43	25 31	2 16	20 15	1 39	4 39	1 9	21 24	1 20	7 42	0 38	8 54	0 52	21 26	1 6	8 6	8 22	13 4	0 11	4 11	
S 19	19 30	17 17	3 19	23 41	1 47	25 28	2 17	20 3	1 38	4 44	1 9	21 25	1 19	7 42	0 38	8 54	0 52	21 26	1 6	8 8	8 23	13 5	0 11	4 11	
S 20	19 44	15 2	2 19	23 58	1 52	25 25	2 19	19 50	1 37	4 48	1 9	21 26	1 19	7 41	0 38	8 54	0 52	21 26	1 5	8 9	8 24	13 7	0 10	4 11	
M21	19 57	12 3	1 14	24 15	1 56	25 20	2 20	19 38	1 36	4 52	1 10	21 27	1 19	7 40	0 38	8 54	0 52	21 26	1 5	8 10	8 25	13 8	0 10	4 10	
T 22	20 10	8 36	0 8	24 30	2 1	25 15	2 21	19 25	1 35	4 56	1 10	21 27	1 19	7 40	0 38	8 54	0 52	21 26	1 5	8 10	8 26	13 10	0 9	4 10	
W23	20 23	4 50	0n58	24 44	2 5	25 10	2 22	19 12	1 34	5 0	1 10	21 28	1 19	7 39	0 38	8 54	0 52	21 26	1 5	8 10	8 28	13 11	0 9	4 10	
T 24	20 35	0 57	1 59	24 57	2 8	25 3	2 22	18 59	1 33	5 4	1 10	21 29	1 19	7 38	0 37	8 54	0 52	21 26	1 5	8 11	8 29	13 13	0 8	4 9	
F 25	20 47	2s54	2 54	25 8	2 11	24 56	2 23	18 45	1 32	5 8	1 10	21 30	1 19	7 38	0 37	8 54	0 52	21 26	1 5	8 12	8 30	13 14	0 8	4 9	
S 26	20 58	6 37	3 41	25 18	2 14	24 48	2 24	18 32	1 31	5 12	1 10	21 30	1 19	7 37	0 37	8 54	0 52	21 26	1 5	8 15	8 31	13 16	0 7	4 9	
S 27	21 9	10 4	4 18	25 27	2 17	24 40	2 24	18 18	1 30	5 16	1 10	21 31	1 19	7 37	0 37	8 54	0 52	21 26	1 5	8 19	8 32	13 17	0 7	4 9	
M28	21 20	13 6	4 44	25 34	2 19	24 30	2 24	18 4	1 29	5 20	1 11	21 32	1 19	7 36	0 37	8 54	0 52	21 25	1 5	8 24	8 33	13 19	0 7	4 8	
T 29	21 30	15 37	4 57	25 40	2 21	24 21	2 25	17 50	1 27	5 23	1 11	21 33	1 19	7 36	0 37	8 54	0 52	21 25	1 4	8 29	8 35	13 20	0 6	4 8	
W30	21s40	17s30	4n58	25s45	2s23	24s10	2s25	17s35	1s26	5s27	1n11	21s33	1n18	7n35	0s37	8s54	0s52	21s25	1n 4	8n35	8n36	13s22	0n 6	4n 8	

Julian Day Number = 2457693.5, Delta T = 68.52 sec

Ecliptic obliquity = 23°26'05, Nutation = - 0°00'08, out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 24°58'32, Lahiri = 24°05'32

ASTRODIENST EPHEMERIS for the year 2016

geocentric

DECEMBER 2016

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	4 41 7	9°13'15	25°32	27°22	22°16	16°9	16°49	17°44	20°R54	9°16	15°57	7°R43	7°52	21°36	20°D40	T 1
F 2	4 45 4	10°14'06	7°38	28°46	23°27	16°54	16°59	17°51	20°Y52	9°17	15°59	7°30	7°49	21°42	20°K40	F 2
S 3	4 49 1	11°14'58	19°51	0°3	24°37	17°39	17°9	17°58	20°51	9°17	16°0	7°20	7°46	21°49	20°40	S 3
S 4	4 52 57	12°15'51	2°13	1°31	25°47	18°24	17°19	18°5	20°50	9°18	16°2	7°13	7°43	21°56	20°40	S 4
M 5	4 56 54	13°16'44	14°46	2°51	26°57	19°9	17°29	18°13	20°49	9°18	16°4	7°9	7°39	22°3	20°41	M 5
T 6	5 0 50	14°17'39	27°34	4°9	28°7	19°54	17°39	18°20	20°47	9°19	16°6	7°8	7°36	22°9	20°41	T 6
W 7	5 4 47	15°18'34	10°40	5°25	29°17	20°39	17°48	18°27	20°46	9°19	16°7	7°8	7°33	22°16	20°41	W 7
T 8	5 8 43	16°19'30	24°7	6°39	0°27	21°25	17°58	18°34	20°45	9°20	16°9	7°8	7°30	22°23	20°41	T 8
F 9	5 12 40	17°20'26	8°Y 0	7°50	1°36	22°10	18°7	18°41	20°44	9°21	16°11	7°6	7°27	22°29	20°42	F 9
S 10	5 16 36	18°21'23	22°17	8°58	2°45	22°55	18°16	18°48	20°43	9°21	16°13	7°3	7°23	22°36	20°42	S 10
S 11	5 20 33	19°22'21	6°858	10°3	3°55	23°40	18°25	18°55	20°42	9°22	16°15	6°56	7°20	22°43	20°43	S 11
M12	5 24 30	20°23'20	21°59	11°3	5°4	24°25	18°34	19°2	20°41	9°23	16°17	6°47	7°17	22°50	20°43	M12
T 13	5 28 26	21°24'19	7°II10	11°58	6°13	25°11	18°43	19°9	20°40	9°23	16°19	6°37	7°14	22°56	20°44	T 13
W14	5 32 23	22°25'19	22°22	12°48	7°22	25°56	18°52	19°16	20°40	9°24	16°21	6°25	7°11	23°3	20°45	W14
T 15	5 36 19	23°26'19	7°23	13°32	8°30	26°41	19°1	19°23	20°39	9°25	16°22	6°15	7°8	23°10	20°45	T 15
F 16	5 40 16	24°27'21	22°5	14°8	9°39	27°26	19°9	19°31	20°38	9°26	16°24	6°6	7°4	23°17	20°46	F 16
S 17	5 44 12	25°28'23	6°Q19	14°37	10°47	28°12	19°18	19°38	20°37	9°27	16°26	6°0	7°1	23°23	20°47	S 17
S 18	5 48 9	26°29'26	20°5	14°57	11°55	28°57	19°26	19°45	20°37	9°28	16°28	5°57	6°58	23°30	20°48	S 18
M19	5 52 5	27°30'30	3°P21	15°R 7	13°3	29°42	19°34	19°52	20°36	9°29	16°30	5°D56	6°55	23°37	20°49	M19
T 20	5 56 2	28°31'35	16°11	15°6	14°11	0°K28	19°42	19°59	20°36	9°30	16°32	5°56	6°52	23°43	20°50	T 20
W21	5 59 59	29°32'40	28°38	14°55	15°19	1°13	19°50	20°6	20°35	9°31	16°34	5°R57	6°49	23°50	20°51	W21
T 22	6 3 55	0°33'46	10°Q49	14°31	16°26	1°58	19°58	20°13	20°35	9°32	16°36	5°56	6°45	23°57	20°52	T 22
F 23	6 7 52	1°34'53	22°48	13°56	17°34	2°44	20°6	20°20	20°35	9°33	16°38	5°54	6°42	24°4	20°53	F 23
S 24	6 11 48	2°36'01	4°M40	13°10	18°41	3°29	20°13	20°27	20°34	9°34	16°40	5°49	6°39	24°10	20°54	S 24
S 25	6 15 45	3°37'09	16°30	12°12	19°48	4°14	20°21	20°34	20°34	9°35	16°42	5°41	6°36	24°17	20°56	S 25
M26	6 19 41	4°38'18	28°22	11°6	20°54	4°59	20°28	20°41	20°34	9°36	16°44	5°31	6°33	24°24	20°57	M26
T 27	6 23 38	5°39'28	10°P17	9°52	22°1	5°45	20°35	20°48	20°34	9°38	16°46	5°20	6°29	24°30	20°58	T 27
W28	6 27 34	6°40'37	22°19	8°32	23°7	6°30	20°42	20°55	20°33	9°39	16°48	5°7	6°26	24°37	21°0	W28
T 29	6 31 31	7°41'48	4°38	7°11	24°13	7°15	20°49	21°2	20°D33	9°40	16°50	4°56	6°23	24°44	21°1	T 29
F 30	6 35 28	8°42'58	16°47	5°49	25°19	8°1	20°56	21°8	20°33	9°41	16°52	4°46	6°20	24°51	21°3	F 30
S 31	6 39 24	9°44'09	29°314	4°30	26°24	8°K46	21°Q 2	21°P15	20°Y34	9°K43	16°354	4°P38	6°P17	24°M57	21°K 5	S 31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	21s50	18s37	4n45	25s48	2s24	23s59	2s25	17s21	1s25	5s31	1n11	21s34	1n18	7n35	0s37	8s53
F 2	21 59	18 54	4 20	25 50	2 24	23 47	2 25	17 6	1 24	5 35	1 11	21 35	1 18	7 34	0 37	8 53
S 3	22 7	18 19	3 42	25 50	2 24	23 34	2 25	16 52	1 23	5 38	1 11	21 35	1 18	7 34	0 37	8 53
S 4	22 16	16 51	2 53	25 49	2 24	23 21	2 25	16 37	1 22	5 42	1 12	21 36	1 18	7 33	0 37	8 53
M 5	22 23	14 34	1 55	25 47	2 22	23 7	2 24	16 22	1 21	5 46	1 12	21 37	1 18	7 33	0 37	8 53
T 6	22 31	11 32	0 50	25 43	2 21	22 53	2 24	16 6	1 20	5 49	1 12	21 38	1 18	7 32	0 37	8 52
W 7	22 38	7 51	0s19	25 37	2 18	22 38	2 23	15 51	1 19	5 53	1 12	21 38	1 18	7 32	0 37	8 52
T 8	22 44	3 41	1 29	25 31	2 15	22 22	2 22	15 36	1 18	5 56	1 12	21 39	1 18	7 32	0 37	8 52
F 9	22 50	0n47	2 35	25 23	2 11	22 6	2 22	15 20	1 17	5 59	1 12	21 40	1 18	7 31	0 37	8 52
S 10	22 55	5 21	3 35	25 13	2 6	21 49	2 21	15 4	1 16	6 3	1 13	21 40	1 18	7 31	0 37	8 51
S 11	23 1	9 43	4 21	25 3	2 0	21 32	2 20	14 48	1 15	6 6	1 13	21 41	1 18	7 31	0 37	8 51
M12	23 5	13 34	4 51	24 51	1 53	21 14	2 18	14 32	1 14	6 9	1 13	21 41	1 18	7 30	0 37	8 51
T 13	23 9	16 33	5 1	24 39	1 45	20 56	2 17	14 16	1 13	6 12	1 13	21 42	1 18	7 30	0 37	8 51
W14	23 13	18 24	4 50	24 25	1 36	20 37	2 16	14 0	1 12	6 16	1 13	21 43	1 18	7 30	0 37	8 50
T 15	23 16	18 56	4 18	24 11	1 26	20 17	2 14	13 43	1 10	6 19	1 13	21 43	1 18	7 30	0 37	8 50
F 16	23 19	18 10	3 30	23 55	1 15	19 57	2 12	13 27	1 9	6 22	1 14	21 44	1 17	7 29	0 37	8 50
S 17	23 21	16 16	2 30	23 40	1 2	19 37	2 10	13 10	1 8	6 25	1 14	21 45	1 17	7 29	0 37	8 49
S 18	23 23	13 28	1 23	23 24	0 48	19 16	2 9	12 53	1 7	6 28	1 14	21 45	1 17	7 29	0 37	8 49
M19	23 25	10 4	0 14	23 8	0 33	18 55	2 6	12 36	1 6	6 31	1 14	21 46	1 17	7 29	0 37	8 49
T 20	23 26	6 17	0n54	22 51	0 17	18 33	2 4	12 19	1 5	6 34	1 14	21 46	1 17	7 29	0 37	8 48
W21	23 26	2 21	1 58	22 35	0n 1	18 11	2 2	12 2	1 4	6 36	1 15	21 47	1 17	7 28	0 37	8 48
T 22	23 26	1s36	2 54	22 19	0 20	17 48	1 59	11 45	1 3	6 39	1 15	21 47	1 17	7 28	0 37	8 47
F 23	23 26	5 25	3 42	22 4	0 39	17 25	1 57	11 28	1 2	6 42	1 15	21 48	1 17	7 28	0 37	8 47
S 24	23 25	8 59	4 20	21 49	0 59	17 2	1 54	11 11	1 1	6 44	1 15	21 48	1 17	7 28	0 37	8 46
S 25	23 23	12 11	4 47	21 34	1 18	16 38	1 51	10 53	1 0	6 47	1 15	21 49	1 17	7 28	0 36	8 46
M26	23 21	14 54	5 1	21 21	1 38	16 14	1 48	10 36	0 59	6 50	1 16	21 50	1 17	7 28	0 36	8 46
T 27	23 19	17 0	5 2	21 8	1 56	15 49	1 45	10 18	0 58	6 52	1 16	21 50	1 17	7 28	0 36	8 45
W28	23 16	18 23	4 50	20 56	2 14	15 24	1 41	10 0	0 57	6 54	1 16	21 51	1 17	7 28	0 36	8 45
T 29	23 13	18 57	4 25	20 45	2 29	14 59	1 38	9 42	0 56	6 57	1 16	21 51	1 17	7 28	0 36	8 44
F 30	23 9	18 38	3 47	20 36	2 43	14 34	1 34	9 25	0 55	6 59	1 16	21 51	1 17	7 28	0 36	8 44
S 31	23s 5	17s25	2n57	20s28	2n54	14s 8	1s31	9s 7	0s54	7s 1	1n17	21s52	1n17	7n28	0s36	8s43

Julian Day Number = 2457723.5, Delta T = 68.55 sec
 Ecliptic obliquity = 23°26'04, Nutation = - 0°00'08, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 24°58'36, Lahiri = 24°05'36