



Astrodienst Ephemeris Tables for the year 1867

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 1867
geocentric

JANUARY 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	6 40 42	10°39'21"	15°11'28"	18°27'24"	11°D50	24°R11	6°36'36"	21°11'3	6°R11	10°V 3	13°R19	27°R 8	27°11'25"	11°34'34"	18°41'42"	T 1
W 2	6 44 39	11°10'32"	27°18'	19°38'	11°51'	23°49'	6°49'	21°8'	6°9'	10°4'	13°19'	27°0'	27°21'	11°41'	18°44'	W 2
T 3	6 48 35	12°11'43"	9°8'	20°54'	11°55'	23°26'	7°3'	21°14'	6°6'	10°4'	13°18'	26°49'	27°18'	11°48'	18°46'	T 3
F 4	6 52 32	13°12'54"	21°1'	22°12'	12°1'	23°3'	7°17'	21°19'	6°3'	10°5'	13°18'	26°36'	27°15'	11°54'	18°48'	F 4
S 5	6 56 29	14°14'05"	2°35'8"	23°31'	12°9'	22°39'	7°30'	21°24'	6°1'	10°5'	13°17'	26°22'	27°12'	12°1'	18°50'	S 5
S 6	7 0 25	15°15'16"	15°1'	24°51'	12°20'	22°15'	7°44'	21°29'	5°58'	10°6'	13°17'	26°8'	27°9'	12°8'	18°52'	S 6
M 7	7 4 22	16°16'27"	27°12'	26°12'	12°32'	21°52'	7°58'	21°35'	5°56'	10°6'	13°16'	25°55'	27°6'	12°15'	18°54'	M 7
T 8	7 8 18	17°17'37"	9°29'29"	27°34'	12°47'	21°28'	8°12'	21°40'	5°53'	10°7'	13°16'	25°44'	27°2'	12°21'	18°56'	T 8
W 9	7 12 15	18°18'48"	21°56'	28°58'	13°4'	21°4'	8°25'	21°45'	5°51'	10°7'	13°15'	25°37'	26°59'	12°28'	18°58'	W 9
T 10	7 16 11	19°19'57"	4°32'	0°32'22"	13°23'	20°40'	8°39'	21°50'	5°48'	10°8'	13°15'	25°32'	26°56'	12°35'	19°0'	T 10
F 11	7 20 8	20°21'06"	17°21'	1°47'	13°43'	20°15'	8°53'	21°54'	5°46'	10°9'	13°15'	25°30'	26°53'	12°41'	19°3'	F 11
S 12	7 24 4	21°22'15"	0°V23	3°13'	14°6'	19°52'	9°7'	21°59'	5°43'	10°10'	13°14'	25°D30	26°50'	12°48'	19°5'	S 12
S 13	7 28 1	22°23'23"	13°43'	4°40'	14°31'	19°28'	9°21'	22°4'	5°41'	10°10'	13°14'	25°30'	26°46'	12°55'	19°7'	S 13
M14	7 31 58	23°24'30"	27°21'	6°7'	14°57'	19°4'	9°35'	22°9'	5°38'	10°11'	13°14'	25°R30	26°43'	13°2'	19°10'	M14
T 15	7 35 54	24°25'36"	11°21'	7°35'	15°25'	18°41'	9°49'	22°13'	5°36'	10°12'	13°13'	25°29'	26°40'	13°8'	19°12'	T 15
W16	7 39 51	25°26'42"	25°42'	9°4'	15°54'	18°17'	10°3'	22°18'	5°33'	10°13'	13°13'	25°25'	26°37'	13°15'	19°15'	W16
T 17	7 43 47	26°27'47"	10°11'21"	10°33'	16°25'	17°54'	10°17'	22°22'	5°31'	10°14'	13°13'	25°19'	26°34'	13°22'	19°17'	T 17
F 18	7 47 44	27°28'51"	25°14'	12°3'	16°58'	17°32'	10°31'	22°26'	5°29'	10°15'	13°13'	25°11'	26°31'	13°28'	19°20'	F 18
S 19	7 51 40	28°29'54"	10°13'13"	13°33'	17°32'	17°10'	10°45'	22°31'	5°26'	10°16'	13°13'	25°2'	26°27'	13°35'	19°22'	S 19
S 20	7 55 37	29°30'57"	25°9'	15°4'	18°8'	16°48'	11°0'	22°35'	5°24'	10°17'	13°12'	24°53'	26°24'	13°42'	19°25'	S 20
M21	7 59 33	0°31'59"	9°12'52"	16°36'	18°44'	16°27'	11°14'	22°39'	5°22'	10°18'	13°12'	24°45'	26°21'	13°49'	19°28'	M21
T 22	8 3 30	1°33'00"	24°15'	18°8'	19°22'	16°6'	11°28'	22°43'	5°20'	10°19'	13°12'	24°39'	26°18'	13°55'	19°30'	T 22
W23	8 7 27	2°34'00"	8°11'43"	19°41'	20°2'	15°46'	11°42'	22°47'	5°17'	10°20'	13°12'	24°36'	26°15'	14°2'	19°33'	W23
T 24	8 11 23	3°35'00"	21°43'	21°15'	20°42'	15°26'	11°56'	22°51'	5°15'	10°21'	13°12'	24°D34	26°12'	14°9'	19°36'	T 24
F 25	8 15 20	4°35'59"	4°47'	22°49'	21°24'	15°7'	12°11'	22°54'	5°13'	10°22'	13°12'	24°35'	26°8'	14°15'	19°39'	F 25
S 26	8 19 16	5°36'57"	17°27'	24°24'	22°7'	14°49'	12°25'	22°58'	5°11'	10°23'	13°12'	24°36'	26°5'	14°22'	19°42'	S 26
S 27	8 23 13	6°37'55"	29°47'	25°59'	22°51'	14°31'	12°39'	23°1'	5°9'	10°24'	13°D12	24°37'	26°2'	14°29'	19°45'	S 27
M28	8 27 9	7°38'52"	11°11'52"	27°36'	23°36'	14°14'	12°53'	23°5'	5°7'	10°26'	13°12'	24°R37	25°59'	14°36'	19°48'	M28
T 29	8 31 6	8°39'49"	23°48'	29°12'	24°22'	13°57'	13°8'	23°8'	5°5'	10°27'	13°12'	24°36'	25°56'	14°42'	19°51'	T 29
W30	8 35 2	9°40'45"	5°39'39"	0°50'25"	8'	13°41'	13°22'	23°12'	5°3'	10°28'	13°12'	24°32'	25°52'	14°49'	19°54'	W30
T 31	8 38 59	10°41'40"	17°30'	2°28'	25°56'	13°26'	13°36'	23°15'	5°1'	10°V29	13°12'	24°11'27"	25°49'	14°56'	19°57'	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
T 1	23s 4	12s53	3n46	21s38	1n19	17s41	4n34	25n 8	3n55	19s13	0s36	15s58	2n 8	23n38	0n19	2n33
W 2	22 59	15 19	4 22	21 53	1 10	17 36	4 40	25 14	3 57	19 10	0 36	15 59	2 8	23 38	0 19	2 33
T 3	22 54	17 7	4 47	22 7	1 2	17 31	4 45	25 20	3 58	19 6	0 36	16 0	2 9	23 38	0 19	2 33
F 4	22 48	18 10	4 59	22 20	0 53	17 27	4 50	25 26	4 0	19 3	0 36	16 2	2 9	23 38	0 19	2 33
S 5	22 42	18 27	4 59	22 33	0 45	17 24	4 54	25 31	4 2	18 59	0 36	16 3	2 9	23 38	0 19	2 33
S 6	22 35	17 53	4 45	22 45	0 36	17 22	4 58	25 37	4 3	18 56	0 36	16 4	2 9	23 38	0 19	2 34
M 7	22 28	16 31	4 18	22 56	0 28	17 20	5 1	25 42	4 4	18 52	0 36	16 5	2 9	23 38	0 19	2 34
T 8	22 20	14 22	3 39	23 6	0 20	17 19	5 4	25 47	4 6	18 49	0 36	16 7	2 9	23 39	0 19	2 34
W 9	22 12	11 33	2 48	23 15	0 12	17 19	5 6	25 52	4 7	18 45	0 36	16 8	2 9	23 39	0 19	2 34
T 10	22 4	8 9	1 49	23 23	0 4	17 19	5 8	25 57	4 8	18 42	0 37	16 9	2 10	23 39	0 19	2 35
F 11	21 55	4 20	0 43	23 30	0s 4	17 20	5 10	26 1	4 9	18 38	0 37	16 10	2 10	23 39	0 19	2 35
S 12	21 45	0 15	0s26	23 36	0 11	17 21	5 11	26 6	4 10	18 35	0 37	16 11	2 10	23 39	0 19	2 35
S 13	21 36	3n57	1 36	23 41	0 19	17 23	5 12	26 10	4 10	18 31	0 37	16 12	2 10	23 39	0 19	2 36
M14	21 25	8 2	2 41	23 45	0 26	17 25	5 13	26 14	4 11	18 27	0 37	16 13	2 10	23 39	0 19	2 36
T 15	21 15	11 46	3 39	23 47	0 33	17 28	5 13	26 18	4 11	18 23	0 37	16 14	2 10	23 39	0 19	2 36
W16	21 4	14 54	4 25	23 48	0 40	17 31	5 13	26 22	4 12	18 20	0 37	16 15	2 11	23 39	0 19	2 37
T 17	20 52	17 9	4 54	23 48	0 46	17 35	5 12	26 25	4 12	18 16	0 37	16 16	2 11	23 40	0 19	2 37
F 18	20 41	18 18	5 5	23 47	0 53	17 39	5 12	26 28	4 12	18 12	0 37	16 17	2 11	23 40	0 19	2 38
S 19	20 28	18 10	4 54	23 45	0 59	17 43	5 11	26 31	4 12	18 8	0 37	16 18	2 11	23 40	0 19	2 38
S 20	20 16	16 48	4 24	23 41	1 5	17 47	5 10	26 34	4 12	18 5	0 37	16 19	2 11	23 40	0 19	2 39
M21	20 3	14 19	3 36	23 36	1 11	17 52	5 8	26 37	4 12	18 1	0 37	16 20	2 11	23 40	0 19	2 39
T 22	19 50	11 0	2 35	23 29	1 16	17 56	5 6	26 39	4 12	17 57	0 37	16 20	2 11	23 40	0 19	2 39
W23	19 36	7 9	1 27	23 21	1 22	18 1	5 4	26 41	4 12	17 53	0 37	16 21	2 12	23 40	0 19	2 40
T 24	19 22	3 3	0 15	23 12	1 27	18 6	5 2	26 43	4 11	17 49	0 37	16 22	2 12	23 40	0 19	2 40
F 25	19 7	1s 4	0n55	23 2	1 32	18 11	5 0	26 45	4 11	17 45	0 37	16 23	2 12	23 40	0 19	2 41
S 26	18 53	5 0	2 0	22 50	1 36	18 16	4 57	26 46	4 10	17 41	0 38	16 24	2 12	23 40	0 19	2 41
S 27	18 38	8 37	2 58	22 36	1 40	18 21	4 55	26 48	4 10	17 37	0 38	16 24	2 12	23 40	0 19	2 42
M28	18 22	11 48	3 47	22 21	1 44	18 26	4 52	26 49	4 9	17 33	0 38	16 25	2 13	23 41	0 19	2 42
T 29	18 6	14 27	4 25	22 5	1 48	18 31	4 49	26 50	4 8	17 29	0 38	16 26	2 13	23 41	0 19	2 43
W30	17 50	16 28	4 52	21 47	1 51	18 36	4 46	26 51	4 7	17 25	0 38	16 26	2 13	23 41	0 19	2 43
T 31	17s34	17s47	5n 6	21s28	1s54	18s41	4n42	26n51	4n 6	17s21	0s38	16s27	2n13	23n41	0n19	2n44

Julian Day Number = 2402967.5, Delta T = 6.19 sec
Ecliptic obliquity = 23°27'14", Nutation = - 0°00'00", out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°52'59", Lahiri = 21°59'59"

ASTRODIENST EPHEMERIS for the year 1867

geocentric

FEBRUARY 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	8 42 56	11 ⁴² 43'34"	29 ²⁷ 25	4 ⁴⁴ 7	26 ²⁷ 45	13 ¹⁰ R12	13 ¹⁰ 51	23 ¹¹ 18	4 ¹⁰ R59	10 ¹⁰ Y31	13 ¹⁰ 812	24 ¹⁰ R20	25 ¹⁰ 46	15 ¹⁰ 7 3	20 ¹⁰ 7 0	F 1
S 2	8 46 52	12 ⁴³ 27	11 ²⁸ 27	5 ⁴⁶	27 ³⁴	12 ⁵⁸ 58	14 ⁵	23 ²¹	4 ⁵⁷	10 ³²	13 ¹²	24 ¹⁰ 12	25 ⁴³	15 ⁹	20 ³	S 2
S 3	8 50 49	13 ⁴⁴ 20	23 ³⁸	7 ²⁷	28 ²⁴	12 ⁴⁶	14 ¹⁹	23 ²⁴	4 ⁵⁵	10 ³⁴	13 ¹²	24 ⁴	25 ⁴⁰	15 ¹⁶	20 ⁶	S 3
M 4	8 54 45	14 ⁴⁵ 11	6 ⁴⁴ 0	9 ⁸	29 ¹⁵	12 ³⁴	14 ³⁴	23 ²⁷	4 ⁵³	10 ³⁵	13 ¹²	23 ⁵⁶	25 ³⁷	15 ²³	20 ⁹	M 4
T 5	8 58 42	15 ⁴⁶ 01	18 ³³	10 ⁵⁰	0 ³ 7	12 ²³	14 ⁴⁸	23 ³⁰	4 ⁵¹	10 ³⁶	13 ¹³	23 ⁵⁰	25 ³³	15 ²⁹	20 ¹²	T 5
W 6	9 2 38	16 ⁴⁶ 50	1 ¹¹ 17	12 ³²	0 ⁵⁹	12 ¹²	15 ²	23 ³²	4 ⁴⁹	10 ³⁸	13 ¹³	23 ⁴⁶	25 ³⁰	15 ³⁶	20 ¹⁵	W 6
T 7	9 6 35	17 ⁴⁷ 37	14 ¹⁴	14 ¹⁶	1 ⁵²	12 ³	15 ¹⁶	23 ³⁵	4 ⁴⁸	10 ³⁹	13 ¹³	23 ⁴⁴	25 ²⁷	15 ⁴³	20 ¹⁹	T 7
F 8	9 10 31	18 ⁴⁸ 23	27 ²²	16 ⁰	2 ⁴⁶	11 ⁵⁴	15 ³¹	23 ³⁷	4 ⁴⁶	10 ⁴¹	13 ¹³	23 ⁴⁴	25 ²⁴	15 ⁵⁰	20 ²²	F 8
S 9	9 14 28	19 ⁴⁹ 07	10 ¹⁴ 42	17 ⁴⁵	3 ⁴⁰	11 ⁴⁶	15 ⁴⁵	23 ⁴⁰	4 ⁴⁴	10 ⁴³	13 ¹⁴	23 ⁴⁴	25 ²¹	15 ⁵⁶	20 ²⁵	S 9
S 10	9 18 25	20 ⁴⁹ 50	24 ¹⁴	19 ³¹	4 ³⁵	11 ³⁹	15 ⁵⁹	23 ⁴²	4 ⁴³	10 ⁴⁴	13 ¹⁴	23 ⁴⁶	25 ¹⁷	16 ³	20 ²⁹	S 10
M 11	9 22 21	21 ⁵⁰ 32	7 ¹⁸ 59	21 ¹⁷	5 ³¹	11 ³²	16 ¹⁴	23 ⁴⁴	4 ⁴¹	10 ⁴⁶	13 ¹⁴	23 ⁴⁸	25 ¹⁴	16 ¹⁰	20 ³²	M 11
T 12	9 26 18	22 ⁵¹ 11	21 ⁵⁷	23 ⁵	6 ²⁷	11 ²⁷	16 ²⁸	23 ⁴⁶	4 ⁴⁰	10 ⁴⁷	13 ¹⁵	23 ⁴⁸	25 ¹¹	16 ¹⁶	20 ³⁵	T 12
W 13	9 30 14	23 ⁵¹ 49	6 ¹¹ 6	24 ⁵³	7 ²³	11 ²²	16 ⁴²	23 ⁴⁸	4 ³⁸	10 ⁴⁹	13 ¹⁵	23 ⁴⁸	25 ⁸	16 ²³	20 ³⁹	W 13
T 14	9 34 11	24 ⁵² 25	20 ²⁶	26 ⁴²	8 ²⁰	11 ¹⁸	16 ⁵⁷	23 ⁵⁰	4 ³⁷	10 ⁵¹	13 ¹⁵	23 ⁴⁶	25 ⁵	16 ³⁰	20 ⁴²	T 14
F 15	9 38 7	25 ⁵³ 00	4 ⁵⁴ 54	28 ³²	9 ¹⁸	11 ¹⁵	17 ¹¹	23 ⁵²	4 ³⁶	10 ⁵³	13 ¹⁶	23 ⁴²	25 ²	16 ³⁷	20 ⁴⁶	F 15
S 16	9 42 4	26 ⁵³ 32	19 ²⁴	0 ¹¹ 22	10 ¹⁶	11 ¹³	17 ²⁵	23 ⁵³	4 ³⁴	10 ⁵⁴	13 ¹⁶	23 ³⁹	24 ⁵⁸	16 ⁴³	20 ⁴⁹	S 16
S 17	9 46 0	27 ⁵⁴ 03	3 ¹² 51	2 ¹³	11 ¹⁴	11 ¹¹	17 ³⁹	23 ⁵⁵	4 ³³	10 ⁵⁶	13 ¹⁶	23 ³⁵	24 ⁵⁵	16 ⁵⁰	20 ⁵²	S 17
M 18	9 49 57	28 ⁵⁴ 33	18 ¹⁰	4 ⁵	12 ¹³	11 ¹⁰	17 ⁵³	23 ⁵⁷	4 ³²	10 ⁵⁸	13 ¹⁷	23 ³¹	24 ⁵²	16 ⁵⁷	20 ⁵⁶	M 18
T 19	9 53 54	29 ⁵⁵ 00	2 ¹⁰ 15	5 ⁵⁷	13 ¹²	11 ¹⁰ D10	18 ⁸	23 ⁵⁸	4 ³¹	11 ⁰	13 ¹⁷	23 ²⁹	24 ⁴⁹	17 ⁴	20 ⁵⁹	T 19
W 20	9 57 50	0 ¹¹ 55'26"	16 ¹	7 ⁴⁹	14 ¹²	11 ¹¹	18 ²²	23 ⁵⁹	4 ³⁰	11 ¹	13 ¹⁸	23 ²⁸	24 ⁴⁶	17 ¹⁰	21 ³	W 20
T 21	10 1 47	1 ⁵⁵ 50	29 ²⁶	9 ⁴²	15 ¹²	11 ¹²	18 ³⁶	24 ⁰	4 ²⁸	11 ³	13 ¹⁸	23 ²⁷	24 ⁴³	17 ¹⁷	21 ⁷	T 21
F 22	10 5 43	2 ⁵⁶ 13	12 ¹² 29	11 ³⁴	16 ¹³	11 ¹⁴	18 ⁵⁰	24 ¹	4 ²⁷	11 ⁵	13 ¹⁹	23 ²⁸	24 ³⁹	17 ²⁴	21 ¹⁰	F 22
S 23	10 9 40	3 ⁵⁶ 34	25 ¹¹	13 ²⁷	17 ¹⁴	11 ¹⁷	19 ⁴	24 ²	4 ²⁶	11 ⁷	13 ²⁰	23 ³⁰	24 ³⁶	17 ³⁰	21 ¹⁴	S 23
S 24	10 13 36	4 ⁵⁶ 54	7 ¹¹ 35	15 ¹⁹	18 ¹⁵	11 ²¹	19 ¹⁸	24 ³	4 ²⁶	11 ⁹	13 ²⁰	23 ³¹	24 ³³	17 ³⁷	21 ¹⁷	S 24
M 25	10 17 33	5 ⁵⁷ 13	19 ⁴⁴	17 ¹⁰	19 ¹⁷	11 ²⁵	19 ³²	24 ⁴	4 ²⁵	11 ¹¹	13 ²¹	23 ³³	24 ³⁰	17 ⁴⁴	21 ²¹	M 25
T 26	10 21 29	6 ⁵⁷ 30	1 ¹¹ 43	19 ¹	20 ¹⁹	11 ³⁰	19 ⁴⁶	24 ⁵	4 ²⁴	11 ¹³	13 ²¹	23 ³³	24 ²⁷	17 ⁵¹	21 ²⁴	T 26
W 27	10 25 26	7 ⁵⁷ 45	13 ³⁶	20 ⁵⁰	21 ²¹	11 ³⁵	20 ⁰	24 ⁵	4 ²³	11 ¹⁵	13 ²²	23 ³³	24 ²³	17 ⁵⁷	21 ²⁸	W 27
T 28	10 29 23	8 ¹¹ 57'59"	25 ¹¹ 29	22 ¹¹ 38	22 ¹¹ 24	11 ³⁴ 1	20 ¹¹ 14	24 ¹¹ 6	4 ²²	11 ¹⁷	13 ²³	23 ³³	24 ¹¹ 20	18 ¹¹ 4	21 ¹¹ 32	T 28

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	17s17	18s20	5n 7	21s 8	1s57	18s46	4n39	26n52	4n 5	17s17	0s38	16s28	2n13	23n41	0n19	2n45	1s33	0n58	15s32	2n15	1n41	17s35	0s15	4n 2	17s35	0s15	4n 2
S 2	17 0	18 4	4 55	20 46	1 59	18 51	4 35	26 52	4 4	17 13	0 38	16 28	2 13	23 41	0 19	2 45	1 33	0 59	15 31	2 18	1 42	17 36	0 14	4 2	17 36	0 14	4 2
S 3	16 43	16 58	4 29	20 22	2 1	18 55	4 31	26 52	4 3	17 9	0 38	16 29	2 14	23 41	0 19	2 46	1 33	0 59	15 31	2 22	1 44	17 36	0 13	4 1	17 36	0 13	4 1
M 4	16 25	15 4	3 50	19 57	2 3	19 0	4 28	26 52	4 2	17 5	0 38	16 29	2 14	23 41	0 19	2 46	1 33	0 59	15 31	2 25	1 45	17 37	0 12	4 1	17 37	0 12	4 1
T 5	16 7	12 26	2 59	19 31	2 4	19 4	4 24	26 52	4 0	17 1	0 38	16 30	2 14	23 41	0 19	2 47	1 33	1 0	15 30	2 27	1 46	17 38	0 11	4 1	17 38	0 11	4 1
W 6	15 49	9 10	1 59	19 3	2 5	19 8	4 19	26 52	3 59	16 57	0 38	16 30	2 14	23 41	0 19	2 48	1 33	1 0	15 30	2 29	1 47	17 38	0 10	4 1	17 38	0 10	4 1
T 7	15 31	5 25	0 52	18 33	2 5	19 11	4 15	26 51	3 58	16 53	0 38	16 31	2 14	23 41	0 19	2 48	1 32	1 0	15 30	2 29	1 49	17 39	0 9	4 1	17 39	0 9	4 1
F 8	15 12	1 21	0s20	18 2	2 5	19 15	4 11	26 51	3 56	16 48	0 39	16 31	2 15	23 41	0 19	2 49	1 32	1 1	15 29	2 30	1 50	17 39	0 8	4 1	17 39	0 8	4 1
S 9	14 53	2n50	1 31	17 30	2 5	19 18	4 7	26 50	3 55	16 44	0 39	16 31	2 15	23 41	0 19	2 49	1 32	1 1	15 29	2 29	1 51	17 40	0 7	4 0	17 40	0 7	4 0
S 10	14 34	6 56	2 39	16 56	2 4	19 21	4 2	26 49	3 54	16 40	0 39	16 32	2 15	23 41	0 19	2 50	1 32	1 2	15 29	2 29	1 52	17 40	0 6	4 0	17 40	0 6	4 0
M11	14 14	10 44	3 39	16 21	2 2	19 23	3 57	26 48	3 52	16 36	0 39	16 32	2 15	23 41	0 19	2 51	1 32	1 2	15 28	2 28	1 54	17 41	0 4	4 0	17 41	0 4	4 0
T 12	13 54	13 59	4 26	15 44	2 0	19 25	3 53	26 47	3 51	16 32	0 39	16 32	2 15	23 42	0 19	2 51	1 32	1 3	15 28	2 28	1 55	17 41	0 3	4 0	17 41	0 3	4 0
W13	13 34	16 26	4 58	15 5	1 58	19 27	3 48	26 46	3 49	16 28	0 39	16 33	2 16	23 42	0 19	2 52	1 32	1 3	15 28	2 28	1 56	17 42	0 2	4 0	17 42	0 2	4 0
T 14	13 14	17 55	5 12	14 26	1 55	19 29	3 43	26 45	3 48	16 23	0 39	16 33	2 16	23 42	0 19	2 53	1 32	1 3	15 27	2 29	1 57	17 42	0 1	4 0	17 42	0 1	4 0
F 15	12 54	18 15	5 7	13 44	1 52	19 30	3 39	26 44	3 46	16 19	0 39	16 33	2 16	23 42	0 19	2 54	1 32	1 4	15 27	2 30	1 59	17 43	0n 0	3 59	17 43	0n 0	3 59
S 16	12 33	17 24	4 42	13 2	1 48	19 30	3 34	26 42	3 44	16 15	0 39	16 33	2 16	23 42	0 19	2 54	1 32	1 4	15 27	2 32	2 0	17 43	0 1	3 59	17 43	0 1	3 59
S 17	12 13	15 25	3 59	12 18	1 43	19 31	3 29	26 41	3 43	16 11	0 39	16 34	2 16	23 42	0 19	2 55	1 32	1 5	15 26	2 33	2 1	17 44	0 3	3 59	17 44	0 3	3 59
M18	11 52	12 30	3 2	11 33	1 38	19 31	3 24	26 39	3 41	16 6	0 39	16 34	2 17	23 42	0 19	2 56	1 32	1 5	15 26	2 34	2 2	17 44	0 4	3 59	17 44	0 4	3 59
T 19	11 30	8 54	1 54	10 46	1 33	19 30	3 19	26 38	3 39	16 2	0 40	16 34	2 17	23 42	0 19	2 56	1 32	1 6	15 26	2 35	2 4	17 45	0 5	3 59	17 45	0 5	3 59
W20	11 9	4 54	0 41	9 59	1 26	19 29	3 14	26 36	3 38	15 58	0 40	16 34	2 17	23 42	0 19	2 57	1 32	1 6	15 25	2 36	2 5	17 45	0 6	3 59	17 45	0 6	3 59
T 21	10 48	0 44	0n33	9 10	1 19	19 28	3 8	26 34	3 36	15 53	0 40	16 34	2 17	23 42	0 19	2 58	1 32	1 6	15 25	2 36	2 6	17 46	0 8	3 59	17 46	0 8	3 59
F 22	10 26	3s21	1 43	8 20	1 12	19 26	3 3	26 32	3 34	15 49	0 40	16 34	2 17	23 42	0 19	2 59	1 32	1 7	15 25	2 36	2 7	17 46	0 9	3 58	17 46	0 9	3 58
S 23	10 4	7 10	2 46	7 29	1 4	19 24	2 58	26 30	3 33	15 45	0 40	16 34	2 18	23 42	0 19	2 59	1 32	1 7	15 24	2 35	2 9	17 47	0 10	3 58	17 47	0 10	3 58
S 24	9 42	10 35	3 40	6 38	0 55	19 21	2 53	26 28	3 31	15 41	0 40	16 34	2 18	23 42	0 19	3 0	1 32	1 8	15 24	2 34	2 10	17 47	0 12	3 58	17 47	0 12	3 58
M25	9 20	13 28	4 23	5 46	0 45	19 18	2 48	26 26	3 29	15 36	0 40	16 34	2 18	23 42	0 19	3 1	1 32	1 8	15 24	2 34	2 11	17 48	0 13	3 58	17 48	0 13	3 58
T26	8 58	15 43	4 53	4 53	0 35	19 14	2 43	26 24	3 28	15 32	0 40	16 34	2 18	23 42	0 19	3 2	1 32	1 9	15 23	2 34	2 13	17 48	0 14	3 58	17 48	0 14	3 58
W 27	8 35	15 18	5 11	4 0	0 24	19 10	2 37	26 22	3 26	15 28	0 40	16 34	2 18	23 42	0 19	3 3	1 32	1 9	15 23	2 34	2 14	17 49	0 16	3 58	17 49	0 16	3 58
T 28	8s13	18s 7	5n16	3s 8	0s13	19s 6	2n32	26n20	3n24	15s23	0s41	16s34	2n19	23n42	0n19	3n 3	1s32	1n10	15s23	2n34	2n15	17s49	0n17	3n58	17s49	0n17	3n58

ASTRODIENST EPHEMERIS for the year 1867

geocentric

MARCH 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	10 33 19	9♂58'12	7♂25	24♂23	23♂26	11♂48	20♂28	24♂6	4♂R22	11♂19	13♂23	23♂R31	24♂17	18♂11	21♂35	F 1
S 2	10 37 16	10°58'23	19°30	26° 6	24°30	11°56	20°42	24° 6	4♂21	11°21	13°24	23♂30	24°14	18°17	21°39	S 2
S 3	10 41 12	11°58'32	1♂46	27°46	25°33	12° 4	20°56	24° 6	4°21	11°23	13°25	23°28	24°11	18°24	21°43	S 3
M 4	10 45 9	12°58'40	14°16	29°22	26°37	12°12	21°10	24°R 6	4°20	11°25	13°25	23°26	24° 8	18°31	21°46	M 4
T 5	10 49 5	13°58'45	27° 1	0♂54	27°41	12°22	21°24	24° 6	4°20	11°27	13°26	23°25	24° 4	18°38	21°50	T 5
W 6	10 53 2	14°58'49	10♂4	2°21	28°45	12°32	21°37	24° 6	4°19	11°29	13°27	23°24	24° 1	18°44	21°54	W 6
T 7	10 56 58	15°58'52	23°23	3°43	29°50	12°42	21°51	24° 6	4°19	11°31	13°28	23°D24	23°58	18°51	21°57	T 7
F 8	11 0 55	16°58'52	6♂57	4°59	0♂54	12°53	22° 5	24° 6	4°18	11°33	13°29	23°24	23°55	18°58	22° 1	F 8
S 9	11 4 51	17°58'50	20°44	6° 9	1°59	13° 5	22°18	24° 5	4°18	11°35	13°29	23°25	23°52	19° 5	22° 5	S 9
S 10	11 8 48	18°58'46	4♂41	7°12	3° 4	13°17	22°32	24° 5	4°18	11°37	13°30	23°25	23°49	19°11	22° 9	S 10
M 11	11 12 45	19°58'40	18°46	8° 7	4°10	13°29	22°45	24° 4	4°18	11°39	13°31	23°26	23°45	19°18	22°12	M 11
T 12	11 16 41	20°58'32	2♂56	8°55	5°15	13°42	22°59	24° 3	4°18	11°42	13°32	23°26	23°42	19°25	22°16	T 12
W 13	11 20 38	21°58'21	17° 8	9°35	6°21	13°56	23°12	24° 2	4°D18	11°44	13°33	23°26	23°39	19°31	22°20	W 13
T 14	11 24 34	22°58'09	1♂20	10° 7	7°27	14°10	23°26	24° 1	4°18	11°46	13°34	23°26	23°36	19°38	22°23	T 14
F 15	11 28 31	23°57'54	15°31	10°31	8°33	14°25	23°39	24° 0	4°18	11°48	13°35	23°26	23°33	19°45	22°27	F 15
S 16	11 32 27	24°57'37	29°36	10°46	9°39	14°40	23°53	23°59	4°18	11°50	13°36	23°26	23°29	19°52	22°31	S 16
S 17	11 36 24	25°57'17	13♂34	10°R52	10°46	14°56	24° 6	23°58	4°18	11°52	13°37	23°26	23°26	19°58	22°35	S 17
M 18	11 40 20	26°56'55	27°23	10°51	11°52	15°12	24°19	23°56	4°18	11°55	13°38	23°27	23°23	20° 5	22°38	M 18
T 19	11 44 17	27°56'31	11♂0	10°41	12°59	15°28	24°32	23°55	4°19	11°57	13°39	23°27	23°20	20°12	22°42	T 19
W 20	11 48 14	28°56'05	24°23	10°24	14° 6	15°45	24°45	23°53	4°19	11°59	13°40	23°R27	23°17	20°18	22°46	W 20
T 21	11 52 10	29°55'37	7♂32	10° 0	15°13	16° 2	24°58	23°52	4°20	12° 1	13°41	23°27	23°14	20°25	22°49	T 21
F 22	11 56 7	0♂55'06	20°24	9°29	16°20	16°20	25°11	23°50	4°20	12° 4	13°42	23°26	23°10	20°32	22°53	F 22
S 23	12 0 3	1°54'34	3♂0	8°52	17°28	16°38	25°24	23°48	4°20	12° 6	13°43	23°25	23° 7	20°39	22°57	S 23
S 24	12 4 0	2°54'00	15°22	8°10	18°35	16°56	25°37	23°46	4°21	12° 8	13°44	23°24	23° 4	20°45	23° 0	S 24
M 25	12 7 56	3°53'24	27°32	7°25	19°43	17°15	25°50	23°44	4°22	12°10	13°45	23°22	23° 1	20°52	23° 4	M 25
T 26	12 11 53	4°52'47	9♂32	6°36	20°51	17°35	26° 2	23°42	4°22	12°12	13°46	23°21	22°58	20°59	23° 8	T 26
W 27	12 15 49	5°52'07	21°26	5°46	21°59	17°54	26°15	23°40	4°23	12°15	13°47	23°20	22°54	21° 6	23°11	W 27
T 28	12 19 46	6°51'26	3♂19	4°54	23° 7	18°14	26°28	23°38	4°24	12°17	13°48	23°D20	22°51	21°12	23°15	T 28
F 29	12 23 43	7°50'43	15°16	4° 3	24°15	18°34	26°40	23°35	4°25	12°19	13°49	23°20	22°48	21°19	23°19	F 29
S 30	12 27 39	8°49'58	27°19	3°14	25°23	18°55	26°53	23°33	4°26	12°22	13°50	23°20	22°45	21°26	23°22	S 30
S 31	12 31 36	9♂49'11	9♂36	2♂26	26♂32	19♂16	27♂5	23♂30	4♂26	12♂24	13♂51	23♂22	22♂42	21♂32	23♂26	S 31

Day	☉	☾		♂		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
F 1	7s50	18s 8	5n 7	2s15	0s 1	19s 0	2n27	26n18	3n23	15s19	0s41	16s34	2n19	23n42	0n19	3n 4	1s32	1n10	15s22	2n34	2n16	17s50	0n18	3n58				
S 2	7 27	17 21	4 44	1 23	0n11	18 55	2 21	26 15	3 21	15 15	0 41	16 34	2 19	23 42	0 19	3 5	1 32	1 11	15 22	2 35	2 18	17 50	0 20	3 58				
S 3	7 4	15 45	4 8	0 32	0 24	18 49	2 16	26 13	3 19	15 10	0 41	16 34	2 19	23 42	0 19	3 6	1 32	1 11	15 22	2 36	2 19	17 51	0 21	3 57				
M 4	6 41	13 22	3 20	0n19	0 37	18 42	2 11	26 10	3 18	15 6	0 41	16 34	2 19	23 42	0 19	3 7	1 32	1 12	15 21	2 36	2 20	17 51	0 22	3 57				
T 5	6 18	10 18	2 21	1 8	0 50	18 35	2 6	26 8	3 16	15 2	0 41	16 33	2 20	23 42	0 19	3 7	1 32	1 12	15 21	2 37	2 21	17 52	0 24	3 57				
W 6	5 55	6 40	1 13	1 55	1 4	18 27	2 0	26 5	3 14	14 57	0 41	16 33	2 20	23 42	0 19	3 8	1 32	1 13	15 21	2 37	2 23	17 52	0 25	3 57				
T 7	5 32	2 38	0 0	2 40	1 18	18 19	1 55	26 3	3 13	14 53	0 41	16 33	2 20	23 42	0 19	3 9	1 32	1 13	15 21	2 37	2 24	17 53	0 26	3 57				
F 8	5 9	1n37	1s14	3 23	1 31	18 11	1 50	26 0	3 11	14 49	0 41	16 33	2 20	23 42	0 19	3 10	1 32	1 14	15 20	2 37	2 25	17 53	0 28	3 57				
S 9	4 45	5 51	2 26	4 3	1 45	18 2	1 45	25 57	3 9	14 44	0 42	16 32	2 20	23 42	0 19	3 11	1 32	1 14	15 20	2 37	2 26	17 54	0 29	3 57				
S 10	4 22	9 48	3 29	4 40	1 58	17 52	1 40	25 54	3 8	14 40	0 42	16 32	2 21	23 42	0 19	3 12	1 32	1 15	15 20	2 37	2 28	17 54	0 30	3 57				
M11	3 58	13 14	4 21	5 14	2 11	17 42	1 34	25 51	3 6	14 36	0 42	16 32	2 21	23 42	0 19	3 12	1 32	1 15	15 19	2 37	2 29	17 55	0 32	3 57				
T 12	3 35	15 54	4 57	5 44	2 24	17 31	1 29	25 48	3 4	14 32	0 42	16 31	2 21	23 42	0 19	3 13	1 32	1 16	15 19	2 37	2 30	17 55	0 33	3 57				
W13	3 11	17 36	5 15	6 11	2 36	17 20	1 24	25 45	3 3	14 27	0 42	16 31	2 21	23 42	0 19	3 14	1 32	1 16	15 19	2 37	2 31	17 55	0 35	3 57				
T 14	2 48	18 13	5 14	6 34	2 47	17 9	1 19	25 42	3 1	14 23	0 42	16 30	2 21	23 42	0 19	3 15	1 32	1 17	15 19	2 37	2 33	17 56	0 36	3 57				
F 15	2 24	17 41	4 54	6 52	2 57	16 57	1 14	25 39	3 0	14 19	0 42	16 30	2 21	23 42	0 19	3 16	1 32	1 17	15 18	2 37	2 34	17 56	0 37	3 57				
S 16	2 0	16 4	4 16	7 7	3 6	16 44	1 9	25 36	2 58	14 14	0 43	16 29	2 22	23 42	0 19	3 17	1 32	1 18	15 18	2 37	2 35	17 57	0 39	3 56				
S 17	1 37	13 30	3 24	7 16	3 14	16 31	1 4	25 32	2 57	14 10	0 43	16 29	2 22	23 42	0 19	3 18	1 32	1 18	15 18	2 36	2 36	17 57	0 40	3 56				
M18	1 13	10 12	2 20	7 22	3 20	16 18	0 59	25 29	2 55	14 6	0 43	16 28	2 22	23 42	0 19	3 18	1 32	1 19	15 18	2 36	2 38	17 58	0 42	3 56				
T 19	0 49	6 23	1 9	7 22	3 25	16 4	0 54	25 26	2 53	14 2	0 43	16 28	2 22	23 42	0 19	3 19	1 32	1 19	15 17	2 36	2 39	17 58	0 43	3 56				
W20	0 25	2 19	0n 5	7 19	3 28	15 49	0 49	25 22	2 52	13 57	0 43	16 27	2 22	23 42	0 19	3 20	1 32	1 20	15 17	2 36	2 40	17 58	0 45	3 56				
T 21	0 2	1s48	1 17	7 11	3 30	15 35	0 44	25 19	2 50	13 53	0 43	16 27	2 23	23 42	0 19	3 21	1 32	1 20	15 17	2 36	2 41	17 59	0 46	3 56				
F 22	0n22	5 45	2 24	6 58	3 30	15 19	0 40	25 15	2 49	13 49	0 43	16 26	2 23	23 42	0 19	3 22	1 32	1 21	15 17	2 36	2 43	17 59	0 47	3 56				
S 23	0 46	9 21	3 22	6 42	3 28	15 3	0 35	25 11	2 47	13 45	0 44	16 26	2 23	23 42	0 19	3 23	1 32	1 21	15 16	2 37	2 44	18 0	0 49	3 56				
S 24	1 9	12 28	4 10	6 22	3 24	14 47	0 30	25 7	2 46	13 40	0 44	16 25	2 23	23 42	0 19	3 24	1 32	1 22	15 16	2 37	2 45	18 0	0 50	3 56				
M25	1 33	15 0	4 45	5 59	3 19	14 31	0 26	25 3	2 44	13 36	0 44	16 24	2 23	23 42	0 19	3 25	1 32	1 22	15 16	2 38	2 46	18 1	0 52	3 56				
T 26	1 56	16 50	5 7	5 33	3 12	14 13	0 21	24 59	2 43	13 32	0 44	16 24	2 23	23 42	0 19	3 25	1 32	1 23	15 16	2 38	2 48	18 1	0 53	3 56				
W27	2 20	17 55	5 16	5 5	3 3	13 56	0 16	24 55	2 42	13 28	0 44	16 23	2 24	23 42	0 19	3 26	1 32	1 23	15 16	2 39	2 49	18 1	0 55	3 56				
T 28	2 43	18 13	5 12	4 35	2 52	13 38	0 12	24 51	2 40	13 24	0 44	16 22	2 24	23 42	0 19	3 27	1 32	1 24	15 15	2 39	2 50	18 2	0 56	3 56				
F 29	3 7	17 43	4 54	4 4	2 40	13 20	0 8	24 47	2 39	13 20	0 44	16 22	2 24	23 42	0 19	3 28	1 32	1 24	15 15	2 39	2 52	18 2	0 57	3 56				
S 30	3 30	16 25	4 22	3 32	2 27	13 1	0 3	24 43	2 37	13 16	0 45	16 21	2 24	23 42	0 19	3 29	1 32	1 25	15 15	2 39	2 53	18 3	0 59	3 56				
S 31	3n54	14s20	3n39	3n 0	2n13	12s42	0s 1	24n38	2n36	13s12	0s45	16s20	2n24	23n42	0n19	3n30	1s32	1n25	15s15	2n38	2n54	18s 3	1n 0	3n56				

ASTRODIENST EPHEMERIS for the year 1867

geocentric

APRIL 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	12 35 32	10°48'23	22°28' 9	1°R41	27°28'40	19°28'37	27°28'17	23°R27	4°28'27	12°V26	13°R53	23°M23	22°M39	21°R39	23°K29	M 1
T 2	12 39 29	11°47'33	5°H 1	1°Y 0	28°49	19°59	27°30	23°M25	4°28	12°28	13°54	23°24	22°35	21°46	23°33	T 2
W 3	12 43 25	12°46'40	18°15	0°23	29°58	20°21	27°42	23°22	4°30	12°31	13°55	23°R25	22°32	21°53	23°36	W 3
T 4	12 47 22	13°45'46	1°Y51	29°K50	1°K 6	20°43	27°54	23°19	4°31	12°33	13°56	23°25	22°29	21°59	23°40	T 4
F 5	12 51 18	14°44'50	15°48	29°23	2°15	21° 6	28° 6	23°16	4°32	12°35	13°57	23°24	22°26	22° 6	23°43	F 5
S 6	12 55 15	15°43'52	0°B 2	29° 1	3°24	21°28	28°18	23°13	4°33	12°37	13°59	23°22	22°23	22°13	23°47	S 6
S 7	12 59 11	16°42'51	14°29	28°44	4°33	21°52	28°30	23°10	4°34	12°40	14° 0	23°19	22°20	22°19	23°50	S 7
M 8	13 3 8	17°41'49	29° 2	28°33	5°43	22°15	28°41	23° 7	4°36	12°42	14° 1	23°15	22°16	22°26	23°54	M 8
T 9	13 7 5	18°40'44	13°H34	28°27	6°52	22°39	28°53	23° 4	4°37	12°44	14° 2	23°12	22°13	22°33	23°57	T 9
W10	13 11 1	19°39'38	28° 2	28°D26	8° 1	23° 3	29° 5	23° 0	4°39	12°46	14° 4	23°10	22°10	22°40	24° 1	W10
T 11	13 14 58	20°38'28	12°B20	28°31	9°11	23°27	29°16	22°57	4°40	12°49	14° 5	23° 8	22° 7	22°46	24° 4	T 11
F 12	13 18 54	21°37'17	26°26	28°41	10°20	23°51	29°27	22°53	4°42	12°51	14° 6	23°D 8	22° 4	22°53	24° 8	F 12
S 13	13 22 51	22°36'03	10°Q18	28°56	11°30	24°16	29°39	22°50	4°43	12°53	14° 7	23° 9	22° 0	23° 0	24°11	S 13
S 14	13 26 47	23°34'47	23°56	29°15	12°39	24°41	29°50	22°46	4°45	12°55	14° 9	23°10	21°57	23° 7	24°14	S 14
M15	13 30 44	24°33'28	7°M20	29°40	13°49	25° 6	0°K 1	22°43	4°47	12°58	14°10	23°12	21°54	23°13	24°18	M15
T 16	13 34 40	25°32'08	20°32	0°Y 8	14°59	25°32	0°12	22°39	4°48	13° 0	14°11	23°R13	21°51	23°20	24°21	T 16
W17	13 38 37	26°30'45	3°B31	0°41	16° 9	25°57	0°23	22°35	4°50	13° 2	14°12	23°12	21°48	23°27	24°24	W17
T 18	13 42 34	27°29'20	16°18	1°18	17°19	26°23	0°34	22°31	4°52	13° 4	14°14	23°10	21°45	23°33	24°27	T 18
F 19	13 46 30	28°27'53	28°54	1°59	18°29	26°49	0°45	22°28	4°54	13° 7	14°15	23° 6	21°41	23°40	24°31	F 19
S 20	13 50 27	29°26'25	11°M18	2°43	19°39	27°15	0°55	22°24	4°56	13° 9	14°16	23° 1	21°38	23°47	24°34	S 20
S 21	13 54 23	0°B24'54	23°33	3°31	20°49	27°42	1° 6	22°20	4°58	13°11	14°18	22°54	21°35	23°54	24°37	S 21
M22	13 58 20	1°23'22	5°K38	4°22	21°59	28° 9	1°16	22°16	5° 0	13°13	14°19	22°47	21°32	24° 0	24°40	M22
T 23	14 2 16	2°21'48	17°36	5°17	23° 9	28°36	1°26	22°12	5° 2	13°15	14°20	22°41	21°29	24° 7	24°43	T 23
W24	14 6 13	3°20'12	29°30	6°14	24°20	29° 3	1°37	22° 7	5° 4	13°18	14°22	22°35	21°25	24°14	24°46	W24
T 25	14 10 9	4°18'35	11°B22	7°15	25°30	29°30	1°47	22° 3	5° 6	13°20	14°23	22°30	21°22	24°20	24°49	T 25
F 26	14 14 6	5°16'56	23°17	8°18	26°41	29°57	1°57	21°59	5° 8	13°22	14°24	22°28	21°19	24°27	24°52	F 26
S 27	14 18 3	6°15'15	5°K19	9°24	27°51	0°Q25	2° 7	21°55	5°10	13°24	14°26	22°D27	21°16	24°34	24°55	S 27
S 28	14 21 59	7°13'33	17°33	10°33	29° 2	0°53	2°16	21°51	5°12	13°26	14°27	22°27	21°13	24°41	24°58	S 28
M29	14 25 56	8°11'50	0°K 4	11°44	0°Y12	1°21	2°26	21°46	5°15	13°28	14°28	22°29	21°10	24°47	25° 1	M29
T 30	14 29 52	9°B10'05	12°K55	12°Y57	1°Y23	1°Q49	2°K35	21°M42	5°B17	13°Y30	14°B30	22°M30	21°M 6	24°K54	25°K 4	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
M 1	4n17	11s33	2n44	2n29	1n58	12s22	0s 5	24n34	2n34	13s 7	0s45	16s19	2n24	23n42	0n19	3n31	1s32	1n26	15s15	2n38	2n55	18s 3	1n 2	3n56			
T 2	4 40	8 8	1 40	1 58	1 43	12 2	0 9	24 29	2 33	13 3	0 45	16 18	2 24	23 42	0 19	3 32	1 32	1 26	15 14	2 37	2 57	18 4	1 3	3 56			
W 3	5 3	4 13	0 28	1 29	1 27	11 42	0 13	24 25	2 32	12 59	0 45	16 18	2 25	23 42	0 19	3 32	1 32	1 27	15 14	2 37	2 58	18 4	1 4	3 56			
T 4	5 26	0n 2	0s46	1 1	1 11	11 21	0 17	24 20	2 30	12 55	0 45	16 17	2 25	23 41	0 19	3 33	1 32	1 27	15 14	2 37	2 59	18 5	1 6	3 56			
F 5	5 49	4 22	2 0	0 36	0 55	11 1	0 21	24 15	2 29	12 51	0 46	16 16	2 25	23 41	0 19	3 34	1 32	1 28	15 14	2 37	3 0	18 5	1 7	3 56			
S 6	6 12	8 33	3 8	0 12	0 39	10 39	0 25	24 10	2 28	12 47	0 46	16 15	2 25	23 41	0 19	3 35	1 32	1 28	15 14	2 38	3 2	18 5	1 9	3 56			
S 7	6 34	12 17	4 5	0s 9	0 23	10 18	0 29	24 5	2 26	12 43	0 46	16 14	2 25	23 41	0 19	3 36	1 32	1 29	15 13	2 39	3 3	18 6	1 10	3 56			
M 8	6 57	15 18	4 46	0 28	0 7	9 56	0 33	24 0	2 25	12 39	0 46	16 13	2 25	23 41	0 19	3 37	1 32	1 29	15 13	2 41	3 4	18 6	1 11	3 56			
T 9	7 19	17 20	5 9	0 44	0s 8	9 33	0 36	23 55	2 24	12 36	0 46	16 12	2 25	23 41	0 19	3 38	1 32	1 30	15 13	2 42	3 5	18 6	1 13	3 56			
W10	7 42	18 14	5 13	0 58	0 22	9 11	0 40	23 50	2 22	12 32	0 46	16 11	2 25	23 41	0 19	3 39	1 32	1 30	15 13	2 43	3 7	18 7	1 14	3 56			
T 11	8 4	17 58	4 56	1 9	0 36	8 48	0 43	23 44	2 21	12 28	0 47	16 10	2 25	23 41	0 19	3 39	1 32	1 31	15 13	2 44	3 8	18 7	1 16	3 56			
F 12	8 26	16 35	4 22	1 17	0 50	8 25	0 47	23 39	2 20	12 24	0 47	16 9	2 26	23 41	0 19	3 40	1 32	1 31	15 13	2 44	3 9	18 8	1 17	3 56			
S 13	8 48	14 14	3 34	1 23	1 3	8 2	0 50	23 33	2 19	12 20	0 47	16 8	2 26	23 41	0 19	3 41	1 32	1 32	15 13	2 43	3 10	18 8	1 18	3 56			
S 14	9 10	11 8	2 33	1 26	1 15	7 38	0 53	23 27	2 17	12 16	0 47	16 7	2 26	23 41	0 19	3 42	1 32	1 32	15 12	2 43	3 12	18 8	1 20	3 56			
M15	9 31	7 30	1 26	1 27	1 26	7 14	0 56	23 21	2 16	12 13	0 47	16 6	2 26	23 41	0 19	3 43	1 32	1 33	15 12	2 42	3 13	18 9	1 21	3 56			
T 16	9 53	3 32	0 15	1 26	1 37	6 50	0 59	23 16	2 15	12 9	0 48	16 5	2 26	23 41	0 19	3 44	1 32	1 33	15 12	2 42	3 14	18 9	1 22	3 56			
W17	10 14	0s33	0n56	1 22	1 47	6 25	1 2	23 10	2 14	12 5	0 48	16 4	2 26	23 41	0 19	3 45	1 32	1 34	15 12	2 42	3 15	18 9	1 24	3 57			
T 18	10 35	4 32	2 3	1 16	1 56	6 1	1 5	23 3	2 13	12 2	0 48	16 3	2 26	23 41	0 19	3 45	1 32	1 34	15 12	2 43	3 17	18 10	1 25	3 57			
F 19	10 56	8 15	3 2	1 7	2 5	5 36	1 8	22 57	2 11	11 58	0 48	16 2	2 26	23 41	0 19	3 46	1 32	1 35	15 12	2 44	3 18	18 10	1 26	3 57			
S 20	11 17	11 33	3 52	0 57	2 13	5 11	1 11	22 51	2 10	11 54	0 48	16 1	2 26	23 40	0 19	3 47	1 32	1 35	15 12	2 46	3 19	18 10	1 28	3 57			
S 21	11 37	14 18	4 30	0 44	2 20	4 46	1 13	22 44	2 9	11 51	0 49	16 0	2 26	23 40	0 19	3 48	1 32	1 36	15 12	2 49	3 20	18 11	1 29	3 57			
M22	11 58	16 24	4 56	0 30	2 27	4 21	1 16	22 38	2 8	11 47	0 49	15 59	2 26	23 40	0 19	3 49	1 32	1 36	15 11	2 52	3 22	18 11	1 30	3 57			
T 23	12 18	17 46	5 8	0 14	2 32	3 55	1 18	22 31	2 7	11 44	0 49	15 58	2 26	23 40	0 19	3 50	1 32	1 37	15 11	2 54	3 23	18 11	1 32	3 57			
W24	12 38	18 20	5 7	0n 4	2 38	3 29	1 21	22 25	2 6	11 40	0 49	15 57	2 27	23 40	0 19	3 50	1 32	1 37	15 11	2 57	3 24	18 12	1 33	3 57			
T 25	12 58	18 6	4 53	0 24	2 42	3 3	1 23	22 18	2 4	11 37	0 49	15 56	2 27	23 40	0 19	3 51	1 32	1 37	15 11	2 59	3 25	18 12	1 34	3 57			
F 26	13 17	17 4	4 26	0 45	2 46	2 37	1 25	22 11	2 3	11 34	0 50	15 55	2 27	23 40	0 19	3 52	1 32	1 38	15 11	3 0	3 27	18 12	1 35	3 57			
S 27	13 37	15 16	3 47	1 8	2 49	2 11	1 27	22 4	2 2	11 30	0 50	15 54	2 27	23 40	0 19	3 53	1 32	1 38	15 11	3 0	3 28	18 13	1 37	3 57			
S 28	13 56	12 46	2 58	1 33	2 52	1 45	1 29	21 56	2 1	11 27	0 50	15 53	2 27	23 40	0 19	3 54	1 32	1 39	15 11	3 0	3 29	18 13	1 38	3 57			
M29	14 15	9 37	1 58	1 59	2 54	1 19	1 31	21 49	2 0	11 24	0 50	15 51	2 27	23 40	0 19	3 54	1 32	1 39	15 11	2 59	3 30	18 13	1 39	3 57			
T 30	14n34	5s55	0n52	2n26	2s55	0s52	1s33	21n42	1n59	11s21	0s50	15s50	2n27	23n40	0n19	3n55	1s32	1n40	15s11	2n59	3n32	18s14	1n40	3n57			

ASTRODIENST EPHEMERIS for the year 1867

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MAY 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	14 33 49	10♈ 8'18	26♋ 12	14♊ 13	2♊ 34	2♊ 18	2♋ 45	21°R38	5♉ 19	13♊ 32	14♈ 31	22°R30	21♏ 3	25♌ 1	25♋ 7	W 1
T 2	14 37 45	11° 6'30	9♊ 56	15°31	3°44	2°46	2°54	21♏ 33	5°22	13°34	14°32	22♏ 29	21° 0	25° 8	25°10	T 2
F 3	14 41 42	12° 4'40	24° 5	16°52	4°55	3°15	3° 3	21°29	5°24	13°37	14°34	22°25	20°57	25°14	25°13	F 3
S 4	14 45 38	13° 2'48	8♈ 38	18°14	6° 6	3°44	3°12	21°24	5°27	13°39	14°35	22°20	20°54	25°21	25°15	S 4
S 5	14 49 35	14° 0'55	23°28	19°39	7°17	4°13	3°21	21°20	5°29	13°41	14°37	22°13	20°51	25°28	25°18	S 5
M 6	14 53 32	14°59'01	8♏ 27	21° 6	8°28	4°42	3°30	21°16	5°32	13°43	14°38	22° 5	20°47	25°34	25°21	M 6
T 7	14 57 28	15°57'04	23°25	22°35	9°39	5°11	3°39	21°11	5°34	13°45	14°39	21°57	20°44	25°41	25°23	T 7
W 8	15 1 25	16°55'06	8♉ 14	24° 6	10°50	5°41	3°47	21° 7	5°37	13°47	14°41	21°50	20°41	25°48	25°26	W 8
T 9	15 5 21	17°53'06	22°47	25°40	12° 1	6°10	3°56	21° 2	5°40	13°49	14°42	21°46	20°38	25°55	25°29	T 9
F 10	15 9 18	18°51'04	6♏ 59	27°15	13°12	6°40	4° 4	20°58	5°42	13°50	14°43	21°43	20°35	26° 1	25°31	F 10
S 11	15 13 14	19°49'00	20°50	28°52	14°23	7°10	4°12	20°53	5°45	13°52	14°45	21°D42	20°31	26° 8	25°34	S 11
S 12	15 17 11	20°46'54	4♏ 20	0♈ 32	15°34	7°40	4°20	20°49	5°48	13°54	14°46	21°43	20°28	26°15	25°36	S 12
M13	15 21 7	21°44'47	17°31	2°13	16°45	8°11	4°28	20°44	5°51	13°56	14°47	21°R44	20°25	26°22	25°38	M13
T 14	15 25 4	22°42'37	0♏ 26	3°56	17°56	8°41	4°35	20°40	5°54	13°58	14°49	21°43	20°22	26°28	25°41	T 14
W15	15 29 1	23°40'26	13° 6	5°42	19° 8	9°11	4°43	20°35	5°56	14° 0	14°50	21°41	20°19	26°35	25°43	W15
T 16	15 32 57	24°38'14	25°36	7°29	20°19	9°42	4°50	20°31	5°59	14° 2	14°51	21°37	20°16	26°42	25°45	T 16
F 17	15 36 54	25°35'59	7♏ 55	9°19	21°30	10°13	4°58	20°26	6° 2	14° 4	14°53	21°29	20°12	26°48	25°48	F 17
S 18	15 40 50	26°33'44	20° 7	11°10	22°41	10°44	5° 5	20°22	6° 5	14° 5	14°54	21°20	20° 9	26°55	25°50	S 18
S 19	15 44 47	27°31'26	2♌ 12	13° 4	23°53	11°15	5°12	20°17	6° 8	14° 7	14°55	21° 8	20° 6	27° 2	25°52	S 19
M20	15 48 43	28°29'08	14°11	15° 0	25° 4	11°46	5°19	20°13	6°11	14° 9	14°57	20°56	20° 3	27° 9	25°54	M20
T 21	15 52 40	29°26'48	26° 6	16°57	26°16	12°17	5°25	20° 8	6°14	14°11	14°58	20°44	20° 0	27°15	25°56	T 21
W22	15 56 36	0♏ 24'28	7♉ 58	18°57	27°27	12°48	5°32	20° 4	6°17	14°12	14°59	20°33	19°57	27°22	25°58	W22
T 23	16 0 33	1°22'06	19°50	20°58	28°39	13°20	5°38	20° 0	6°20	14°14	15° 1	20°24	19°53	27°29	26° 0	T 23
F 24	16 4 30	2°19'43	1♏ 45	23° 2	29°50	13°51	5°44	19°55	6°24	14°16	15° 2	20°18	19°50	27°35	26° 2	F 24
S 25	16 8 26	3°17'19	13°46	25° 6	1♈ 2	14°23	5°50	19°51	6°27	14°17	15° 3	20°14	19°47	27°42	26° 4	S 25
S 26	16 12 23	4°14'54	25°57	27°13	2°13	14°55	5°56	19°47	6°30	14°19	15° 5	20°12	19°44	27°49	26° 6	S 26
M27	16 16 19	5°12'28	8♋ 25	29°21	3°25	15°27	6° 2	19°42	6°33	14°21	15° 6	20°D12	19°41	27°56	26° 8	M27
T 28	16 20 16	6°10'01	21°13	1♏ 30	4°37	15°59	6° 8	19°38	6°36	14°22	15° 7	20°R12	19°37	28° 2	26° 9	T 28
W29	16 24 12	7° 7'33	4♊ 26	3°40	5°48	16°31	6°13	19°34	6°40	14°24	15° 8	20°11	19°34	28° 9	26°11	W29
T 30	16 28 9	8° 5'05	18° 7	5°51	7° 0	17° 3	6°18	19°30	6°43	14°25	15°10	20° 9	19°31	28°16	26°13	T 30
F 31	16 32 5	9♏ 2'36	2♈ 18	8♏ 3	8♈ 12	17°Ω35	6♋ 23	19♏ 26	6♉ 46	14♊ 27	15♈ 11	20♏ 4	19♏ 28	28♌ 23	26♋ 14	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	14n52	1s49	0s20	2n55	2s55	0s26	1s35	21n34	1n58	11s17	0s51	15s49	2n27	23n39	0n19	3n56	1s32	1n40	15s11	2n59	3n33	18s14	1n42	3n57			
T 2	15 10	2n31	1 33	3 25	2 56	0n 1	1 36	21 27	1 57	11 14	0 51	15 48	2 27	23 39	0 19	3 57	1 32	1 40	15 11	2 59	3 34	18 14	1 43	3 58			
F 3	15 28	6 51	2 42	3 56	2 55	0 27	1 38	21 19	1 56	11 11	0 51	15 47	2 27	23 39	0 19	3 58	1 32	1 41	15 11	3 1	3 35	18 14	1 44	3 58			
S 4	15 46	10 53	3 42	4 29	2 54	0 54	1 39	21 11	1 54	11 8	0 51	15 46	2 27	23 39	0 19	3 58	1 32	1 41	15 11	3 3	3 37	18 15	1 45	3 58			
S 5	16 3	14 19	4 29	5 2	2 52	1 21	1 41	21 3	1 53	11 5	0 52	15 45	2 27	23 39	0 19	3 59	1 32	1 42	15 11	3 6	3 38	18 15	1 46	3 58			
M 6	16 20	16 50	4 57	5 37	2 50	1 48	1 42	20 55	1 52	11 2	0 52	15 43	2 27	23 39	0 19	4 0	1 32	1 42	15 11	3 9	3 39	18 15	1 47	3 58			
T 7	16 37	18 12	5 6	6 13	2 47	2 14	1 43	20 47	1 51	10 59	0 52	15 42	2 27	23 39	0 19	4 1	1 32	1 42	15 11	3 12	3 40	18 16	1 49	3 58			
W 8	16 54	18 19	4 54	6 49	2 44	2 41	1 44	20 39	1 50	10 56	0 52	15 41	2 27	23 39	0 19	4 1	1 32	1 43	15 11	3 14	3 42	18 16	1 50	3 58			
T 9	17 10	17 13	4 23	7 27	2 40	3 8	1 45	20 30	1 49	10 53	0 52	15 40	2 27	23 39	0 19	4 2	1 32	1 43	15 11	3 16	3 43	18 16	1 51	3 58			
F 10	17 26	15 3	3 36	8 5	2 35	3 35	1 46	20 22	1 48	10 51	0 53	15 39	2 27	23 38	0 19	4 3	1 32	1 44	15 11	3 17	3 44	18 16	1 52	3 58			
S 11	17 42	12 4	2 37	8 44	2 30	4 1	1 47	20 13	1 47	10 48	0 53	15 38	2 27	23 38	0 19	4 4	1 32	1 44	15 11	3 17	3 45	18 17	1 53	3 59			
S 12	17 58	8 30	1 32	9 24	2 25	4 28	1 48	20 4	1 46	10 45	0 53	15 37	2 27	23 38	0 19	4 4	1 32	1 44	15 11	3 17	3 47	18 17	1 54	3 59			
M13	18 13	4 35	0 23	10 5	2 18	4 55	1 49	19 56	1 45	10 43	0 53	15 35	2 27	23 38	0 19	4 5	1 32	1 45	15 11	3 17	3 48	18 17	1 55	3 59			
T 14	18 28	0 32	0n46	10 46	2 12	5 21	1 49	19 47	1 44	10 40	0 54	15 34	2 27	23 38	0 19	4 6	1 32	1 45	15 11	3 17	3 49	18 18	1 56	3 59			
W15	18 42	3s28	1 52	11 28	2 5	5 48	1 50	19 38	1 43	10 37	0 54	15 33	2 26	23 38	0 19	4 6	1 32	1 45	15 11	3 18	3 50	18 18	1 57	3 59			
T 16	18 56	7 15	2 50	12 10	1 57	6 14	1 50	19 28	1 42	10 35	0 54	15 32	2 26	23 38	0 19	4 7	1 32	1 46	15 11	3 20	3 52	18 18	1 58	3 59			
F 17	19 10	10 41	3 40	12 53	1 49	6 41	1 51	19 19	1 41	10 32	0 54	15 31	2 26	23 38	0 19	4 8	1 32	1 46	15 11	3 23	3 53	18 18	1 59	3 59			
S 18	19 24	13 37	4 19	13 35	1 41	7 7	1 51	19 10	1 40	10 30	0 55	15 30	2 26	23 37	0 19	4 8	1 33	1 46	15 11	3 26	3 54	18 19	2 0	3 59			
S 19	19 37	15 57	4 46	14 18	1 32	7 33	1 51	19 0	1 39	10 28	0 55	15 29	2 26	23 37	0 19	4 9	1 33	1 47	15 11	3 31	3 55	18 19	2 1	3 59			
M20	19 50	17 33	5 0	15 1	1 23	7 59	1 51	18 51	1 38	10 25	0 55	15 28	2 26	23 37	0 19	4 10	1 33	1 47	15 11	3 36	3 57	18 19	2 2	4 0			
T 21	20 3	18 23	5 1	15 44	1 13	8 25	1 51	18 41	1 37	10 23	0 55	15 27	2 26	23 37	0 19	4 10	1 33	1 47	15 11	3 41	3 58	18 19	2 3	4 0			
W22	20 15	18 25	4 48	16 27	1 4	8 51	1 51	18 31	1 37	10 21	0 56	15 25	2 26	23 37	0 19	4 11	1 33	1 48	15 11	3 45	3 59	18 20	2 4	4 0			
T 23	20 27	17 38	4 23	17 9	0 54	9 16	1 51	18 21	1 36	10 19	0 56	15 24	2 26	23 37	0 19	4 11	1 33	1 48	15 11	3 48	4 0	18 20	2 5	4 0			
F 24	20 38	16 5	3 47	17 51	0 43	9 42	1 51	18 11	1 35	10 17	0 56	15 23	2 26	23 37	0 19	4 12	1 33	1 48	15 11	3 51	4 2	18 20	2 6	4 0			
S 25	20 50	13 49	3 0	18 31	0 33	10 7	1 50	18 1	1 34	10 15	0 56	15 22	2 26	23 36	0 19	4 13	1 33	1 49	15 11	3 52	4 3	18 20	2 7	4 0			
S 26	21 0	10 55	2 5	19 11	0 22	10 32	1 50	17 51	1 33	10 13	0 57	15 21	2 26	23 36	0 19	4 13	1 33	1 49	15 11	3 53	4 4	18 21	2 8	4 0			
M27	21 11	7 28	1 2	19 50	0 11	10 57	1 49	17 41	1 32	10 11	0 57	15 20	2 25	23 36	0 19	4 14	1 33	1 49	15 11	3 53	4 5	18 21	2 8	4 1			
T 28	21 21	3 34	0s 5	20 28	0 1	11 21	1 49	17 30	1 31	10 9	0 57	15 19	2 25	23 36	0 19	4 14	1 33	1 49	15 11	3 53	4 7	18 21	2 9	4 1			
W29	21 31	0n37	1 15	21 4	0n10	11 46	1 48	17 20	1 30	10 8	0 57	15 18	2 25	23 36	0 19	4 15	1 33	1 50	15 11	3 53	4 8	18 21	2 10	4 1			
T 30	21 40	4 55	2 22	21 38	0 20	12 10	1 47	17 9	1 39	10 6	0 58	15 17	2 25	23 36	0 19	4 16	1 33	1 50	15 12	3 54	4 9	18 21	2 11	4 1			
F 31	21n49	9n 6	3s23	22n10	0n30	12n34	1s47	16n58	1n28	10s 4	0s58	15s16	2n25	23n35	0n19	4n16	1s33	1n50	15s12	3n56	4n10	18s22	2n12	4n 1			

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geocentric

JUNE 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	16 36 2	10II 0'05	16♂56	10II15	9♂23	18♂ 8	6♂28	19°R22	6♂49	14°Y28	15♂12	19°R57	19♂25	28♂29	26♂16	S 1
S 2	16 39 59	10°57'35	1II56	12°27	10°35	18°40	6°33	19♂18	6°53	14°30	15°14	19♂47	19°22	28°36	26°17	S 2
M 3	16 43 55	11°55'03	17°10	14°39	11°47	19°13	6°37	19°14	6°56	14°31	15°15	19°36	19°18	28°43	26°19	M 3
T 4	16 47 52	12°52'30	2♂25	16°51	12°59	19°46	6°42	19°10	6°59	14°33	15°16	19°26	19°15	28°49	26°20	T 4
W 5	16 51 48	13°49'56	17°32	19° 1	14°11	20°18	6°46	19° 6	7° 3	14°34	15°17	19°17	19°12	28°56	26°22	W 5
T 6	16 55 45	14°47'22	2♂21	21°11	15°23	20°51	6°50	19° 2	7° 6	14°35	15°18	19°10	19° 9	29° 3	26°23	T 6
F 7	16 59 41	15°44'46	16°46	23°19	16°35	21°24	6°54	18°58	7°10	14°37	15°20	19° 5	19° 6	29°10	26°24	F 7
S 8	17 3 38	16°42'08	0♂44	25°26	17°47	21°57	6°58	18°54	7°13	14°38	15°21	19° 4	19° 3	29°16	26°25	S 8
S 9	17 7 34	17°39'30	14°16	27°32	18°59	22°31	7° 1	18°51	7°17	14°39	15°22	19° 3	18°59	29°23	26°26	S 9
M10	17 11 31	18°36'51	27°24	29°35	20°11	23° 4	7° 4	18°47	7°20	14°40	15°23	19° 3	18°56	29°30	26°27	M10
T 11	17 15 28	19°34'10	10♂11	1♂37	21°23	23°37	7° 7	18°44	7°24	14°42	15°24	19° 2	18°53	29°36	26°29	T 11
W12	17 19 24	20°31'29	22°42	3°36	22°35	24°11	7°10	18°40	7°27	14°43	15°25	18°59	18°50	29°43	26°30	W12
T 13	17 23 21	21°28'47	5♂ 1	5°34	23°47	24°44	7°13	18°37	7°30	14°44	15°27	18°54	18°47	29°50	26°30	T 13
F 14	17 27 17	22°26'04	17°10	7°29	24°59	25°18	7°16	18°33	7°34	14°45	15°28	18°46	18°43	29°57	26°31	F 14
S 15	17 31 14	23°23'20	29°12	9°22	26°11	25°52	7°18	18°30	7°38	14°46	15°29	18°35	18°40	0♂ 3	26°32	S 15
S 16	17 35 10	24°20'36	11♂ 9	11°13	27°23	26°26	7°20	18°27	7°41	14°47	15°30	18°22	18°37	0°10	26°33	S 16
M17	17 39 7	25°17'51	23° 4	13° 1	28°35	26°59	7°22	18°24	7°45	14°48	15°31	18° 9	18°34	0°17	26°34	M17
T 18	17 43 3	26°15'05	4♂56	14°47	29°47	27°33	7°24	18°21	7°48	14°49	15°32	17°55	18°31	0°24	26°34	T 18
W19	17 47 0	27°12'19	16°49	16°31	1II 0	28° 7	7°26	18°18	7°52	14°50	15°33	17°43	18°28	0°30	26°35	W19
T 20	17 50 57	28° 9'33	28°42	18°12	2°12	28°42	7°27	18°15	7°55	14°51	15°34	17°33	18°24	0°37	26°36	T 20
F 21	17 54 53	29° 6'46	10♂40	19°51	3°24	29°16	7°29	18°12	7°59	14°52	15°35	17°25	18°21	0°44	26°36	F 21
S 22	17 58 50	0♂ 3'59	22°44	21°28	4°37	29°50	7°30	18° 9	8° 3	14°53	15°36	17°21	18°18	0°50	26°37	S 22
S 23	18 2 46	1° 1'12	4♂57	23° 2	5°49	0♂24	7°31	18° 6	8° 6	14°54	15°37	17°18	18°15	0°57	26°37	S 23
M24	18 6 43	1°58'25	17°25	24°34	7° 1	0°59	7°31	18° 4	8°10	14°55	15°38	17°D18	18°12	1° 4	26°37	M24
T 25	18 10 39	2°55'38	0°Y11	26° 3	8°14	1°33	7°32	18° 1	8°13	14°55	15°39	17°R18	18° 9	1°11	26°38	T 25
W26	18 14 36	3°52'51	13°20	27°30	9°26	2° 8	7°32	17°59	8°17	14°56	15°40	17°18	18° 5	1°17	26°38	W26
T 27	18 18 32	4°50'03	26°55	28°55	10°39	2°43	7°R32	17°56	8°21	14°57	15°41	17°16	18° 2	1°24	26°38	T 27
F 28	18 22 29	5°47'16	10♂59	0♂17	11°51	3°18	7°32	17°54	8°24	14°58	15°42	17°12	17°59	1°31	26°38	F 28
S 29	18 26 26	6°44'29	25°30	1°36	13° 4	3°52	7°32	17°52	8°28	14°58	15°43	17° 6	17°56	1°37	26°38	S 29
S 30	18 30 22	7♂41'43	10II25	2♂53	14II16	4♂27	7♂31	17♂50	8♂31	14°Y59	15♂44	16♂57	17♂53	1♂44	26°R38	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	21n58	12n52	4s13	22n40	0n40	12n57	1s46	16n47	1n27	10s 3	0s58	15s15	2n25	23n35	0n19	S 1
S 2	22 6 15 53	4 46 23 8	0 50	13 21	1 45	16 37	1 26	10 1	0 59	15 14	2 25	23 35	0 19	4 17	1 33	S 2
M 3	22 14 17 51	5 0 23 33	0 59	13 44	1 44	16 25	1 26	10 0	0 59	15 13	2 25	23 35	0 19	4 18	1 33	M 3
T 4	22 21 18 33	4 53 23 56	1 8	14 7	1 43	16 14	1 25	9 58	0 59	15 12	2 24	23 35	0 19	4 18	1 33	T 4
W 5	22 28 17 55	4 25 24 16	1 16	14 29	1 42	16 3	1 24	9 57	0 59	15 12	2 24	23 35	0 19	4 19	1 33	W 5
T 6	22 35 16 4	3 40 24 33	1 24	14 51	1 40	15 52	1 23	9 56	1 0	15 11	2 24	23 34	0 19	4 19	1 33	T 6
F 7	22 41 13 15	2 42 24 48	1 31	15 13	1 39	15 40	1 22	9 55	1 0	15 10	2 24	23 34	0 19	4 20	1 33	F 7
S 8	22 47 9 44	1 35 24 59	1 37	15 35	1 38	15 29	1 21	9 54	1 0	15 9	2 24	23 34	0 19	4 20	1 33	S 8
S 9	22 53 5 49	0 25 25 8	1 42	15 56	1 36	15 17	1 20	9 53	1 1	15 8	2 24	23 34	0 19	4 20	1 34	S 9
M10	22 58 1 43	0n44 25 14	1 47	16 16	1 35	15 5	1 20	9 52	1 1	15 7	2 23	23 34	0 19	4 21	1 34	M10
T 11	23 3 2s22	1 49 25 18	1 51	16 37	1 33	14 53	1 19	9 51	1 1	15 6	2 23	23 33	0 19	4 21	1 34	T 11
W12	23 7 6 14	2 48 25 19	1 55	16 57	1 32	14 42	1 18	9 50	1 1	15 6	2 23	23 33	0 19	4 22	1 34	W12
T 13	23 11 9 47	3 37 25 17	1 57	17 16	1 30	14 30	1 17	9 49	1 2	15 5	2 23	23 33	0 19	4 22	1 34	T 13
F 14	23 14 12 52	4 16 25 14	1 59	17 35	1 29	14 17	1 16	9 48	1 2	15 4	2 23	23 33	0 19	4 22	1 34	F 14
S 15	23 17 15 23	4 43 25 7	2 0	17 54	1 27	14 5	1 15	9 48	1 2	15 3	2 23	23 33	0 19	4 23	1 34	S 15
S 16	23 20 17 13	4 57 24 59	2 1	18 12	1 25	13 53	1 14	9 47	1 3	15 3	2 22	23 32	0 19	4 23	1 34	S 16
M17	23 22 18 18	4 59 24 49	2 0	18 30	1 23	13 41	1 14	9 47	1 3	15 2	2 22	23 32	0 19	4 24	1 34	M17
T 18	23 24 18 35	4 47 24 36	1 59	18 48	1 21	13 28	1 13	9 46	1 3	15 1	2 22	23 32	0 19	4 24	1 34	T 18
W19	23 25 18 3	4 23 24 22	1 57	19 4	1 19	13 16	1 12	9 46	1 3	15 1	2 22	23 32	0 19	4 24	1 34	W19
T 20	23 26 16 44	3 47 24 7	1 55	19 21	1 17	13 3	1 11	9 46	1 4	15 0	2 22	23 32	0 19	4 25	1 34	T 20
F 21	23 27 14 40	3 1 23 50	1 52	19 37	1 15	12 50	1 10	9 46	1 4	15 0	2 21	23 31	0 19	4 25	1 34	F 21
S 22	23 27 11 57	2 6 23 31	1 48	19 52	1 13	12 37	1 10	9 45	1 4	14 59	2 21	23 31	0 19	4 25	1 34	S 22
S 23	23 27 8 41	1 5 23 11	1 43	20 7	1 11	12 24	1 9	9 45	1 5	14 59	2 21	23 31	0 19	4 25	1 34	S 23
M24	23 26 4 59	0s 1 22 50	1 38	20 22	1 9	12 11	1 8	9 45	1 5	14 58	2 21	23 31	0 19	4 26	1 34	M24
T 25	23 25 0 58	1 8 22 28	1 33	20 35	1 7	11 58	1 7	9 45	1 5	14 58	2 21	23 31	0 19	4 26	1 34	T 25
W26	23 24 3n13	2 14 22 5	1 26	20 49	1 5	11 45	1 6	9 46	1 5	14 57	2 20	23 30	0 19	4 26	1 34	W26
T 27	23 22 7 22	3 14 21 41	1 19	21 2	1 2	11 32	1 6	9 46	1 6	14 57	2 20	23 30	0 19	4 26	1 35	T 27
F 28	23 20 11 15	4 5 21 16	1 12	21 14	1 0	11 19	1 5	9 46	1 6	14 56	2 20	23 30	0 19	4 27	1 35	F 28
S 29	23 17 14 35	4 42 20 51	1 4	21 25	0 58	11 5	1 4	9 47	1 6	14 56	2 20	23 30	0 19	4 27	1 35	S 29
S 30	23n14	17n 4	5s 1	20n25	0n55	21n36	0s55	10n52	1n 3	9s47	1s 7	14s55	2n19	23n29	0n19	S 30

Julian Day Number = 2403118.5, Delta T = 5.66 sec
 Ecliptic obliquity = 23°27'14", Nutation = - 0°00'04", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°53'20", Lahiri = 22°00'20"

ASTRODIENST EPHEMERIS for the year 1867

geocentric

JULY 1867

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	18 34 19	8°38'56	25°11'37	4°07	15°11'29	5°11'29	7°R31	17°R48	8°35	15°V 0	15°R45	16°R48	17°11'49	1°35	26°R38	M 1
T 2	18 38 15	9°36'09	10°35'55	5°18	16°41	5°37	7°R30	17°M46	8°39	15° 0	15°46	16°11'38	17°46	1°58	26°R38	T 2
W 3	18 42 12	10°33'23	26° 8	6°27	17°54	6°13	7°29	17°44	8°42	15° 1	15°47	16°30	17°43	2° 4	26°38	W 3
T 4	18 46 8	11°30'36	11°05	7°33	19° 7	6°48	7°27	17°42	8°46	15° 1	15°48	16°24	17°40	2°11	26°38	T 4
F 5	18 50 5	12°27'49	25°40	8°36	20°19	7°23	7°26	17°40	8°50	15° 2	15°48	16°20	17°37	2°18	26°38	F 5
S 6	18 54 1	13°25'02	9°11'47	9°36	21°32	7°58	7°24	17°39	8°53	15° 2	15°49	16°18	17°34	2°24	26°37	S 6
S 7	18 57 58	14°22'14	23°26	10°33	22°45	8°34	7°22	17°37	8°57	15° 2	15°50	16°D18	17°30	2°31	26°37	S 7
M 8	19 1 55	15°19'27	6°11'38	11°26	23°58	9° 9	7°20	17°36	9° 0	15° 3	15°51	16°19	17°27	2°38	26°37	M 8
T 9	19 5 51	16°16'39	19°27	12°16	25°10	9°45	7°18	17°35	9° 4	15° 3	15°52	16°R19	17°24	2°45	26°36	T 9
W10	19 9 48	17°13'51	11°56	13° 3	26°23	10°21	7°16	17°33	9° 8	15° 3	15°52	16°18	17°21	2°51	26°36	W10
T 11	19 13 44	18°11'03	14°11	13°46	27°36	10°56	7°13	17°32	9°11	15° 4	15°53	16°15	17°18	2°58	26°35	T 11
F 12	19 17 41	19° 8'16	26°15	14°26	28°49	11°32	7°10	17°31	9°15	15° 4	15°54	16° 9	17°15	3° 5	26°34	F 12
S 13	19 21 37	20° 5'28	8°11'12	15° 1	0°52	12° 8	7° 7	17°30	9°18	15° 4	15°54	16° 1	17°11	3°12	26°34	S 13
S 14	19 25 34	21° 2'40	20° 5	15°32	1°15	12°44	7° 4	17°30	9°22	15° 4	15°55	15°52	17° 8	3°18	26°33	S 14
M15	19 29 30	21°59'53	1°35'58	16° 0	2°28	13°20	7° 1	17°29	9°25	15° 5	15°56	15°42	17° 5	3°25	26°32	M15
T 16	19 33 27	22°57'06	13°51	16°23	3°41	13°56	6°57	17°28	9°29	15° 5	15°56	15°32	17° 2	3°32	26°31	T 16
W17	19 37 24	23°54'20	25°46	16°41	4°54	14°32	6°54	17°28	9°33	15° 5	15°57	15°23	16°59	3°38	26°30	W17
T 18	19 41 20	24°51'33	7°11'45	16°55	6° 7	15° 8	6°50	17°27	9°36	15° 5	15°58	15°16	16°55	3°45	26°30	T 18
F 19	19 45 17	25°48'48	19°50	17° 4	7°20	15°44	6°46	17°27	9°40	15°R 5	15°58	15°11	16°52	3°52	26°29	F 19
S 20	19 49 13	26°46'03	2°11'3	17°R 9	8°33	16°21	6°42	17°27	9°43	15° 5	15°59	15° 8	16°49	3°59	26°28	S 20
S 21	19 53 10	27°43'18	14°25	17° 8	9°46	16°57	6°37	17°26	9°47	15° 5	15°59	15°D 7	16°46	4° 5	26°26	S 21
M22	19 57 6	28°40'34	27° 0	17° 2	10°59	17°34	6°33	17°D26	9°50	15° 5	16° 0	15° 7	16°43	4°12	26°25	M22
T 23	20 1 3	29°37'52	9°11'51	16°52	12°12	18°10	6°28	17°26	9°54	15° 5	16° 0	15° 9	16°40	4°19	26°24	T 23
W24	20 4 59	0°03'51	23° 1	16°36	13°26	18°47	6°23	17°27	9°57	15° 4	16° 1	15°10	16°36	4°25	26°23	W24
T 25	20 8 56	1°32'29	6°11'33	16°16	14°39	19°23	6°18	17°27	10° 0	15° 4	16° 1	15°R10	16°33	4°32	26°22	T 25
F 26	20 12 53	2°29'49	20°28	15°51	15°52	20° 0	6°13	17°27	10° 4	15° 4	16° 2	15° 9	16°30	4°39	26°20	F 26
S 27	20 16 49	3°27'10	4°11'47	15°22	17° 6	20°37	6° 8	17°28	10° 7	15° 4	16° 2	15° 5	16°27	4°46	26°19	S 27
S 28	20 20 46	4°24'32	19°27	14°48	18°19	21°14	6° 2	17°28	10°11	15° 4	16° 3	15° 1	16°24	4°52	26°18	S 28
M29	20 24 42	5°21'56	4°35'23	14°11	19°32	21°51	5°56	17°29	10°14	15° 3	16° 3	14°55	16°20	4°59	26°16	M29
T 30	20 28 39	6°19'20	19°28	13°31	20°46	22°27	5°51	17°29	10°17	15° 3	16° 3	14°50	16°17	5° 6	26°15	T 30
W31	20 32 35	7°01'45	4°01'31	12°04	21°05	23°11	5°45	17°M30	10°21	15°V 2	16°R 4	14°M45	16°M14	5°12	26°R13	W31

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	23n10	18n24	4s59	19n59	0n46	21n47	0s53	10n38	1n 2	9s48	1s 7	14s55	2n19	23n29	0n19	4n27	1s35
T 2	23 6	18 25	4 36	19 33	0 37	21 57	0 51	10 25	1 2	9 48	1 7	14 55	2 19	23 29	0 19	4 27	1 35
W 3	23 2	17 6	3 54	19 6	0 27	22 6	0 48	10 11	1 1	9 49	1 7	14 55	2 19	23 29	0 19	4 27	1 35
T 4	22 57	14 38	2 56	18 39	0 16	22 15	0 46	9 57	1 0	9 50	1 8	14 54	2 18	23 29	0 19	4 28	1 35
F 5	22 52	11 17	1 48	18 12	0 5	22 23	0 43	9 43	0 59	9 50	1 8	14 54	2 18	23 28	0 19	4 28	1 35
S 6	22 47	7 22	0 35	17 46	0s 6	22 30	0 41	9 29	0 59	9 51	1 8	14 54	2 18	23 28	0 19	4 28	1 35
S 7	22 41	3 11	0n38	17 19	0 18	22 37	0 38	9 15	0 58	9 52	1 9	14 54	2 18	23 28	0 19	4 28	1 35
M 8	22 34	1s 0	1 46	16 53	0 30	22 43	0 36	9 1	0 57	9 53	1 9	14 54	2 17	23 28	0 19	4 28	1 35
T 9	22 28	5 2	2 47	16 27	0 43	22 49	0 33	8 47	0 56	9 54	1 9	14 53	2 17	23 27	0 19	4 28	1 35
W10	22 21	8 44	3 39	16 1	0 56	22 54	0 31	8 33	0 55	9 55	1 9	14 53	2 17	23 27	0 19	4 28	1 35
T 11	22 13	11 59	4 19	15 36	1 9	22 58	0 28	8 19	0 55	9 57	1 10	14 53	2 17	23 27	0 19	4 28	1 35
F 12	22 5	14 40	4 47	15 12	1 22	23 1	0 26	8 4	0 54	9 58	1 10	14 53	2 16	23 27	0 19	4 28	1 35
S 13	21 57	16 43	5 2	14 49	1 36	23 4	0 23	7 50	0 53	9 59	1 10	14 53	2 16	23 26	0 19	4 28	1 35
S 14	21 48	18 2	5 4	14 26	1 50	23 6	0 20	7 36	0 52	10 1	1 11	14 53	2 16	23 26	0 19	4 28	1 36
M15	21 39	18 33	4 53	14 5	2 4	23 8	0 18	7 21	0 52	10 2	1 11	14 53	2 16	23 26	0 19	4 28	1 36
T 16	21 30	18 16	4 29	13 45	2 18	23 9	0 15	7 7	0 51	10 4	1 11	14 53	2 15	23 26	0 19	4 28	1 36
W17	21 20	17 11	3 53	13 26	2 32	23 9	0 13	6 52	0 50	10 5	1 11	14 53	2 15	23 25	0 19	4 28	1 36
T 18	21 10	15 20	3 7	13 8	2 46	23 9	0 10	6 37	0 49	10 7	1 12	14 53	2 15	23 25	0 19	4 28	1 36
F 19	21 0	12 47	2 12	12 52	3 0	23 8	0 7	6 23	0 49	10 9	1 12	14 54	2 15	23 25	0 19	4 28	1 36
S 20	20 49	9 40	1 10	12 38	3 14	23 6	0 5	6 8	0 48	10 11	1 12	14 54	2 14	23 25	0 19	4 28	1 36
S 21	20 38	6 5	0 4	12 25	3 27	23 3	0 2	5 53	0 47	10 13	1 12	14 54	2 14	23 25	0 19	4 28	1 36
M22	20 26	2 10	1s 4	12 15	3 40	23 0	0n 0	5 38	0 47	10 14	1 13	14 54	2 14	23 24	0 19	4 28	1 36
T 23	20 14	1n55	2 10	12 6	3 52	22 56	0 3	5 23	0 46	10 16	1 13	14 55	2 14	23 24	0 19	4 28	1 36
W24	20 2	6 0	3 11	11 59	4 4	22 52	0 5	5 8	0 45	10 19	1 13	14 55	2 13	23 24	0 19	4 28	1 36
T 25	19 50	9 53	4 2	11 55	4 15	22 47	0 8	4 53	0 44	10 21	1 14	14 55	2 13	23 24	0 19	4 28	1 36
F 26	19 37	13 21	4 42	11 53	4 25	22 41	0 10	4 38	0 44	10 23	1 14	14 55	2 13	23 23	0 19	4 28	1 36
S 27	19 24	16 6	5 5	11 53	4 33	22 34	0 13	4 23	0 43	10 25	1 14	14 56	2 13	23 23	0 19	4 27	1 36
S 28	19 10	17 54	5 9	11 55	4 41	22 27	0 15	4 8	0 42	10 27	1 14	14 56	2 12	23 23	0 19	4 27	1 36
M29	18 56	18 31	4 52	12 0	4 47	22 19	0 18	3 52	0 41	10 30	1 14	14 57	2 12	23 23	0 19	4 27	1 36
T 30	18 42	17 50	4 15	12 7	4 52	22 11	0 20	3 37	0 41	10 32	1 15	14 57	2 12	23 22	0 19	4 27	1 36
W31	18n28	15n53	3s21	12n16	4s55	22n 2	0n23	3n22	0n40	10s34	1s15	14s58	2n12	23n22	0n19	4n27	1s36

Julian Day Number = 2403148.5, Delta T = 5.55 sec
 Ecliptic obliquity = 23°27'14, Nutation = - 0°00'03, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°53'24, Lahiri = 22°00'24

ASTRODIENST EPHEMERIS for the year 1867

geocentric

AUGUST 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 36 32	8♏14'11	19♏24	12°R 4	23♏13	23♏42	5°R39	17♏31	10♏24	15°R 2	16♏ 4	14°R41	16♏11	5♏19	26°R11	T 1
F 2	20 40 28	9°11'38	3♏58	11♏18	24°26	24°19	5♏32	17°32	10°27	15°Y 2	16° 4	14♏39	16° 8	5°26	26♏10	F 2
S 3	20 44 25	10° 9'05	18° 9	10°32	25°40	24°56	5°26	17°33	10°31	15° 1	16° 5	14°D39	16° 5	5°33	26° 8	S 3
S 4	20 48 22	11° 6'34	1♏53	9°47	26°53	25°33	5°20	17°34	10°34	15° 1	16° 5	14°40	16° 1	5°39	26° 6	S 4
M 5	20 52 18	12° 4'03	15°10	9° 2	28° 7	26°11	5°13	17°36	10°37	15° 0	16° 5	14°41	15°58	5°46	26° 5	M 5
T 6	20 56 15	13° 1'33	28° 3	8°20	29°21	26°48	5° 6	17°37	10°40	15° 0	16° 5	14°43	15°55	5°53	26° 3	T 6
W 7	21 0 11	13°59'03	10♏36	7°42	0♏34	27°26	5° 0	17°39	10°43	14°59	16° 6	14°R43	15°52	5°59	26° 1	W 7
T 8	21 4 8	14°56'35	22°51	7° 7	1°48	28° 3	4°53	17°40	10°47	14°58	16° 6	14°43	15°49	6° 6	25°59	T 8
F 9	21 8 4	15°54'07	4♏55	6°36	3° 2	28°41	4°46	17°42	10°50	14°58	16° 6	14°42	15°46	6°13	25°57	F 9
S 10	21 12 1	16°51'40	16°51	6°11	4°16	29°18	4°39	17°44	10°53	14°57	16° 6	14°39	15°42	6°20	25°55	S 10
S 11	21 15 57	17°49'15	28°44	5°51	5°29	29°56	4°31	17°46	10°56	14°56	16° 6	14°35	15°39	6°26	25°53	S 11
M12	21 19 54	18°46'50	10♏36	5°38	6°43	0♏34	4°24	17°48	10°59	14°56	16° 6	14°31	15°36	6°33	25°51	M12
T 13	21 23 51	19°44'26	22°32	5°D32	7°57	1°12	4°17	17°50	11° 2	14°55	16° 6	14°27	15°33	6°40	25°49	T 13
W14	21 27 47	20°42'03	4♏32	5°32	9°11	1°50	4° 9	17°52	11° 5	14°54	16° 6	14°23	15°30	6°46	25°47	W14
T 15	21 31 44	21°39'42	16°40	5°40	10°25	2°28	4° 2	17°54	11° 8	14°53	16° 6	14°20	15°26	6°53	25°45	T 15
F 16	21 35 40	22°37'22	28°57	5°55	11°39	3° 6	3°54	17°56	11°11	14°52	16°R 6	14°18	15°23	7° 0	25°42	F 16
S 17	21 39 37	23°35'03	11♏24	6°17	12°53	3°44	3°47	17°59	11°14	14°52	16° 6	14°D17	15°20	7° 7	25°40	S 17
S 18	21 43 33	24°32'45	24° 2	6°47	14° 7	4°22	3°39	18° 1	11°17	14°51	16° 6	14°17	15°17	7°13	25°38	S 18
M19	21 47 30	25°30'29	6°Y54	7°25	15°21	5° 0	3°31	18° 4	11°19	14°50	16° 6	14°18	15°14	7°20	25°36	M19
T 20	21 51 26	26°28'15	19°58	8° 9	16°35	5°39	3°23	18° 7	11°22	14°49	16° 6	14°20	15°11	7°27	25°33	T 20
W21	21 55 23	27°26'02	3♏18	9° 1	17°49	6°17	3°16	18° 9	11°25	14°48	16° 6	14°21	15° 7	7°33	25°31	W21
T 22	21 59 20	28°23'51	16°55	9°59	19° 3	6°55	3° 8	18°12	11°28	14°47	16° 6	14°22	15° 4	7°40	25°28	T 22
F 23	22 3 16	29°21'42	0♏47	11° 4	20°17	7°34	3° 0	18°15	11°31	14°46	16° 6	14°R22	15° 1	7°47	25°26	F 23
S 24	22 7 13	0♏19'34	14°56	12°16	21°31	8°12	2°52	18°18	11°33	14°45	16° 6	14°22	14°58	7°54	25°24	S 24
S 25	22 11 9	1°17'29	29°20	13°34	22°45	8°51	2°44	18°21	11°36	14°44	16° 6	14°21	14°55	8° 0	25°21	S 25
M26	22 15 6	2°15'25	13♏55	14°57	23°59	9°30	2°36	18°25	11°38	14°42	16° 5	14°20	14°52	8° 7	25°19	M26
T 27	22 19 2	3°13'23	28°35	16°25	25°14	10° 8	2°28	18°28	11°41	14°41	16° 5	14°18	14°48	8°14	25°16	T 27
W28	22 22 59	4°11'23	13♏16	17°58	26°28	10°47	2°20	18°31	11°44	14°40	16° 5	14°17	14°45	8°20	25°14	W28
T 29	22 26 55	5° 9'24	27°50	19°35	27°42	11°26	2°13	18°35	11°46	14°39	16° 5	14°16	14°42	8°27	25°11	T 29
F 30	22 30 52	6° 7'27	12♏11	21°16	28°57	12° 5	2° 5	18°38	11°49	14°38	16° 4	14°D16	14°39	8°34	25° 8	F 30
S 31	22 34 49	7♏5'32	26♏13	23♏ 1	0♏11	12♏44	1°57	18♏42	11♏51	14°Y37	16♏ 4	14♏16	14♏36	8♏41	25♏ 6	S 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	18n13	12n54	2s13	12n27	4s56	21n52	0n25	3n 6	0n39	10s37	1s15	14s58	2n11	23n22	0n19	4n27	1s37
F 2	17 58	9 10	0 58	12 40	4 55	21 42	0 27	2 51	0 39	10 39	1 15	14 59	2 11	23 22	0 19	4 26	1 37
S 3	17 43	4 59	0n19	12 54	4 53	21 30	0 30	2 36	0 38	10 42	1 16	14 59	2 11	23 21	0 19	4 26	1 37
S 4	17 27	0 40	1 33	13 10	4 49	21 19	0 32	2 20	0 37	10 44	1 16	15 0	2 11	23 21	0 19	4 26	1 37
M 5	17 11	3s32	2 39	13 27	4 43	21 6	0 34	2 5	0 36	10 47	1 16	15 0	2 10	23 21	0 19	4 26	1 37
T 6	16 55	7 26	3 35	13 45	4 35	20 54	0 36	1 49	0 36	10 50	1 16	15 1	2 10	23 21	0 19	4 25	1 37
W 7	16 38	10 54	4 19	14 4	4 26	20 40	0 39	1 34	0 35	10 52	1 16	15 2	2 10	23 20	0 19	4 25	1 37
T 8	16 22	13 48	4 51	14 23	4 15	20 26	0 41	1 18	0 34	10 55	1 17	15 2	2 10	23 20	0 19	4 25	1 37
F 9	16 5	16 4	5 9	14 43	4 3	20 11	0 43	1 2	0 34	10 58	1 17	15 3	2 9	23 20	0 19	4 24	1 37
S 10	15 48	17 37	5 13	15 2	3 49	19 56	0 45	0 47	0 33	11 0	1 17	15 4	2 9	23 20	0 19	4 24	1 37
S 11	15 30	18 23	5 4	15 21	3 35	19 40	0 47	0 31	0 32	11 3	1 17	15 5	2 9	23 19	0 19	4 24	1 37
M12	15 12	18 21	4 42	15 39	3 19	19 24	0 49	0 15	0 32	11 6	1 17	15 5	2 8	23 19	0 19	4 23	1 37
T 13	14 54	17 30	4 7	15 56	3 3	19 7	0 51	0s 0	0 31	11 9	1 18	15 6	2 8	23 19	0 19	4 23	1 37
W14	14 36	15 53	3 21	16 12	2 46	18 49	0 53	0 16	0 30	11 12	1 18	15 7	2 8	23 19	0 19	4 23	1 37
T 15	14 18	13 31	2 26	16 27	2 29	18 31	0 55	0 32	0 29	11 15	1 18	15 8	2 8	23 19	0 19	4 22	1 37
F 16	13 59	10 32	1 24	16 40	2 12	18 12	0 56	0 48	0 29	11 18	1 18	15 9	2 7	23 18	0 19	4 22	1 37
S 17	13 40	7 3	0 16	16 52	1 54	17 53	0 58	1 3	0 28	11 21	1 18	15 10	2 7	23 18	0 19	4 22	1 37
S 18	13 21	3 11	0s54	17 1	1 37	17 34	1 0	1 19	0 27	11 23	1 18	15 11	2 7	23 18	0 19	4 21	1 37
M19	13 2	0n53	2 2	17 9	1 20	17 14	1 2	1 35	0 27	11 26	1 18	15 12	2 7	23 18	0 19	4 21	1 37
T 20	12 42	4 58	3 5	17 14	1 3	16 53	1 3	1 51	0 26	11 29	1 19	15 13	2 6	23 17	0 19	4 20	1 38
W21	12 22	8 53	3 59	17 16	0 46	16 32	1 5	2 6	0 25	11 32	1 19	15 14	2 6	23 17	0 20	4 20	1 38
T 22	12 2	12 24	4 41	17 16	0 31	16 10	1 6	2 22	0 25	11 35	1 19	15 15	2 6	23 17	0 20	4 20	1 38
F 23	11 42	15 19	5 7	17 13	0 15	15 48	1 8	2 38	0 24	11 38	1 19	15 16	2 6	23 17	0 20	4 19	1 38
S 24	11 22	17 22	5 16	17 7	0 1	15 26	1 9	2 54	0 23	11 41	1 19	15 17	2 5	23 17	0 20	4 19	1 38
S 25	11 1	18 22	5 6	16 58	0n13	15 3	1 11	3 10	0 23	11 44	1 19	15 18	2 5	23 16	0 20	4 18	1 38
M26	10 41	18 10	4 35	16 47	0 26	14 40	1 12	3 26	0 22	11 47	1 19	15 19	2 5	23 16	0 20	4 18	1 38
T 27	10 20	16 45	3 47	16 32	0 38	14 16	1 13	3 42	0 21	11 50	1 19	15 20	2 5	23 16	0 20	4 17	1 38
W28	9 59	14 14	2 43	16 14	0 49	13 52	1 14	3 57	0 21	11 53	1 19	15 21	2 5	23 16	0 20	4 17	1 38
T 29	9 38	10 50	1 30	15 54	1 0	13 27	1 15	4 13	0 20	11 56	1 19	15 22	2 4	23 16	0 20	4 16	1 38
F 30	9 16	6 49	0 12	15 30	1 9	13 3	1 17	4 29	0 19	11 59	1 19	15 24	2 4	23 15	0 20	4 16	1 38
S 31	8n55	2n31	1n 6	15n 4	1n17	12n37	1n18	4s45	0n19	12s 2	1s20	15s25	2n 4	23n15	0n20	4n15	1s38

Julian Day Number = 2403179.5, Delta T = 5.44 sec
 Ecliptic obliquity = 23°27'14, Nutation = - 0°00'03, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°53'28, Lahiri = 22°00'28

ASTRODIENST EPHEMERIS for the year 1867

geocentric

OCTOBER 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	0 37 2	7 ²⁰ 18	14 ¹¹ 4	18 ²⁵ 58	8 ²⁵ 45	3 ¹¹ 23	28 ¹⁰ 34	21 ¹¹ 11	12 ²⁵ 44	13 ¹⁰ 50	15 ¹⁰ 46	14 ¹⁰ 8	12 ¹⁰ 57	12 ¹⁰ 8	23 ¹⁰ 41	T 1
W 2	0 40 58	8 ¹⁹ 22	26 ³⁰ 38	20 ³⁰ 34	10 ³⁰ 0	4 ³⁰ 3	28 ¹⁰ 29	21 ¹⁰ 17	12 ¹⁰ 45	13 ¹⁰ 49	15 ¹⁰ 45	14 ¹⁰ 4	12 ¹⁰ 54	12 ¹⁰ 15	23 ¹⁰ 38	W 2
T 3	0 44 55	9 ¹⁸ 29	8 ²⁷ 57	22 ³⁰ 9	11 ³⁰ 15	4 ⁴⁰ 4	28 ¹⁰ 25	21 ¹⁰ 23	12 ¹⁰ 46	13 ¹⁰ 47	15 ¹⁰ 44	14 ¹⁰ 1	12 ¹⁰ 51	12 ¹⁰ 22	23 ¹⁰ 35	T 3
F 4	0 48 51	10 ¹⁷ 37	21 ³⁰ 2	23 ⁴⁰ 43	12 ³⁰ 30	5 ²⁰ 26	28 ¹⁰ 21	21 ¹⁰ 29	12 ¹⁰ 47	13 ¹⁰ 45	15 ¹⁰ 43	13 ¹⁰ 58	12 ¹⁰ 48	12 ¹⁰ 29	23 ¹⁰ 33	F 4
S 5	0 52 48	11 ¹⁶ 47	2 ³⁰ 59	25 ¹⁰ 17	13 ⁴⁰ 45	6 ³⁰ 7	28 ¹⁰ 17	21 ¹⁰ 35	12 ¹⁰ 48	13 ¹⁰ 44	15 ¹⁰ 42	13 ¹⁰ 57	12 ¹⁰ 44	12 ¹⁰ 35	23 ¹⁰ 30	S 5
S 6	0 56 44	12 ¹⁵ 59	14 ⁵⁰ 51	26 ⁵⁰ 50	15 ⁵⁰ 0	6 ⁴⁰ 48	28 ¹⁰ 13	21 ¹⁰ 41	12 ¹⁰ 49	13 ¹⁰ 42	15 ¹⁰ 42	13 ¹⁰ D56	12 ¹⁰ 41	12 ¹⁰ 42	23 ¹⁰ 27	S 6
M 7	1 0 41	13 ¹⁵ 13	26 ⁴⁰ 44	28 ²⁰ 22	16 ¹⁵ 15	7 ²⁰ 29	28 ¹⁰ 10	21 ¹⁰ 47	12 ¹⁰ 49	13 ¹⁰ 40	15 ¹⁰ 41	13 ¹⁰ 57	12 ¹⁰ 38	12 ¹⁰ 49	23 ¹⁰ 25	M 7
T 8	1 4 37	14 ¹⁴ 29	8 ²⁷ 41	29 ⁵⁰ 53	17 ³⁰ 30	8 ¹⁰ 10	28 ¹⁰ 7	21 ¹⁰ 53	12 ¹⁰ 50	13 ¹⁰ 39	15 ¹⁰ 40	13 ¹⁰ 59	12 ¹⁰ 35	12 ¹⁰ 55	23 ¹⁰ 22	T 8
W 9	1 8 34	15 ¹³ 46	20 ⁴⁰ 49	1 ¹¹ 23	18 ⁴⁵ 45	8 ⁵⁰ 52	28 ¹⁰ 3	21 ¹⁰ 59	12 ¹⁰ 51	13 ¹⁰ 37	15 ¹⁰ 39	14 ¹⁰ 1	12 ¹⁰ 32	13 ¹⁰ 2	23 ¹⁰ 20	W 9
T 10	1 12 31	16 ¹³ 05	3 ¹¹ 11	2 ⁵⁰ 53	20 ⁵⁰ 0	9 ³⁰ 33	28 ¹⁰ 1	22 ¹⁰ 5	12 ¹⁰ 51	13 ¹⁰ 35	15 ¹⁰ 38	14 ¹⁰ 2	12 ¹⁰ 29	13 ¹⁰ 9	23 ¹⁰ 17	T 10
F 11	1 16 27	17 ¹² 26	15 ⁵⁰ 50	4 ²⁰ 22	21 ¹⁵ 15	10 ¹⁵ 15	27 ⁵⁰ 58	22 ¹⁰ 12	12 ¹⁰ 52	13 ¹⁰ 33	15 ¹⁰ 37	14 ¹⁰ R 2	12 ¹⁰ 25	13 ¹⁰ 15	23 ¹⁰ 15	F 11
S 12	1 20 24	18 ¹¹ 49	28 ⁴⁰ 49	5 ⁵⁰ 50	22 ³⁰ 30	10 ⁵⁰ 56	27 ⁵⁰ 55	22 ¹⁰ 18	12 ¹⁰ 52	13 ¹⁰ 32	15 ¹⁰ 36	14 ¹⁰ 1	12 ¹⁰ 22	13 ¹⁰ 22	23 ¹⁰ 12	S 12
S 13	1 24 20	19 ¹¹ 13	12 ¹⁰ 9	7 ¹⁰ 18	23 ⁴⁵ 45	11 ³⁰ 38	27 ⁵⁰ 53	22 ¹⁰ 24	12 ¹⁰ 52	13 ¹⁰ 30	15 ¹⁰ 35	13 ¹⁰ 59	12 ¹⁰ 19	13 ¹⁰ 29	23 ¹⁰ 10	S 13
M14	1 28 17	20 ¹⁰ 40	25 ⁴⁰ 48	8 ⁴⁰ 44	25 ⁵⁰ 0	12 ²⁰ 20	27 ⁵⁰ 51	22 ¹⁰ 31	12 ¹⁰ 53	13 ¹⁰ 28	15 ¹⁰ 34	13 ¹⁰ 55	12 ¹⁰ 16	13 ¹⁰ 36	23 ¹⁰ 7	M14
T 15	1 32 13	21 ¹⁰ 09	9 ¹⁰ 44	10 ¹⁰ 10	26 ¹⁵ 15	13 ¹⁰ 1	27 ⁵⁰ 49	22 ¹⁰ 37	12 ¹⁰ 53	13 ¹⁰ 27	15 ¹⁰ 33	13 ¹⁰ 49	12 ¹⁰ 13	13 ¹⁰ 42	23 ¹⁰ 5	T 15
W16	1 36 10	22 ⁹ 40	23 ⁵⁰ 53	11 ³⁵ 35	27 ³⁰ 30	13 ⁴⁰ 43	27 ⁵⁰ 47	22 ¹⁰ 43	12 ¹⁰ 53	13 ¹⁰ 25	15 ¹⁰ 32	13 ¹⁰ 43	12 ¹⁰ 9	13 ¹⁰ 49	23 ¹⁰ 3	W16
T 17	1 40 6	23 ⁹ 13	8 ¹¹ 10	12 ⁵⁰ 59	28 ⁴⁵ 45	14 ²⁵ 25	27 ⁵⁰ 45	22 ¹⁰ 50	12 ¹⁰ 53	13 ¹⁰ 24	15 ¹⁰ 31	13 ¹⁰ 37	12 ¹⁰ 6	13 ¹⁰ 56	23 ¹⁰ 0	T 17
F 18	1 44 3	24 ⁸ 49	22 ³⁰ 30	14 ²² 22	29 ⁵⁰ 59	15 ⁵⁰ 7	27 ⁵⁰ 44	22 ¹⁰ 56	12 ¹⁰ 53	13 ¹⁰ 22	15 ¹⁰ 30	13 ¹⁰ 32	12 ¹⁰ 3	14 ²⁰ 2	22 ⁵⁰ 58	F 18
S 19	1 48 0	25 ⁸ 26	6 ²⁰ 49	15 ⁴⁵ 45	1 ¹¹ 15	15 ⁴⁰ 49	27 ⁵⁰ 43	23 ¹⁰ 3	12 ¹⁰ R53	13 ¹⁰ 20	15 ¹⁰ 29	13 ¹⁰ 29	12 ¹⁰ 0	14 ²⁰ 9	22 ⁵⁰ 56	S 19
S 20	1 51 56	26 ⁸ 07	21 ³⁰ 3	17 ⁶⁰ 6	2 ³⁰ 30	16 ³¹ 31	27 ⁵⁰ 42	23 ¹⁰ 10	12 ¹⁰ 53	13 ¹⁰ 19	15 ¹⁰ 28	13 ¹⁰ D27	11 ⁵⁰ 57	14 ¹⁰ 16	22 ⁵⁰ 54	S 20
M21	1 55 53	27 ⁷ 49	5 ¹⁰ 10	18 ²⁶ 26	3 ⁴⁵ 45	17 ¹³ 13	27 ⁵⁰ 41	23 ¹⁰ 16	12 ¹⁰ 53	13 ¹⁰ 17	15 ¹⁰ 27	13 ¹⁰ 27	11 ⁵⁰ 54	14 ¹⁰ 22	22 ⁵⁰ 51	M21
T 22	1 59 49	28 ⁷ 34	19 ⁸⁰ 8	19 ⁴⁶ 46	5 ⁵⁰ 0	17 ⁵⁵ 55	27 ⁵⁰ 41	23 ¹⁰ 23	12 ¹⁰ 53	13 ¹⁰ 15	15 ¹⁰ 26	13 ¹⁰ 29	11 ⁵⁰ 50	14 ¹⁰ 29	22 ⁵⁰ 49	T 22
W23	2 3 46	29 ⁷ 21	2 ¹⁰ 58	21 ⁴⁰ 4	6 ¹⁵ 15	18 ³⁷ 37	27 ⁵⁰ 40	23 ¹⁰ 30	12 ¹⁰ 53	13 ¹⁰ 14	15 ¹⁰ 25	13 ¹⁰ 30	11 ⁵⁰ 47	14 ¹⁰ 36	22 ⁵⁰ 47	W23
T 24	2 7 42	0 ¹¹ 710	16 ³⁰ 38	22 ²⁰ 21	7 ³⁰ 30	19 ²⁰ 20	27 ⁵⁰ D40	23 ¹⁰ 36	12 ¹⁰ 53	13 ¹⁰ 12	15 ¹⁰ 23	13 ¹⁰ R30	11 ⁵⁰ 44	14 ¹⁰ 43	22 ⁵⁰ 45	T 24
F 25	2 11 39	1 ⁷⁰ 101	0 ¹⁰ 9	23 ³⁶ 36	8 ⁴⁵ 45	20 ²⁰ 2	27 ⁵⁰ 40	23 ¹⁰ 43	12 ¹⁰ 53	13 ¹⁰ 11	15 ¹⁰ 22	13 ¹⁰ 29	11 ⁵⁰ 41	14 ¹⁰ 49	22 ⁵⁰ 43	F 25
S 26	2 15 35	2 ⁶ 54	13 ²⁸ 28	24 ⁵⁰ 50	10 ⁵⁰ 0	20 ⁴⁴ 44	27 ⁵⁰ 40	23 ¹⁰ 50	12 ¹⁰ 52	13 ¹⁰ 9	15 ¹⁰ 21	13 ¹⁰ 25	11 ⁵⁰ 38	14 ¹⁰ 56	22 ⁵⁰ 41	S 26
S 27	2 19 32	3 ⁶ 50	26 ³⁶ 36	26 ²⁰ 2	11 ¹⁵ 15	21 ²⁷ 27	27 ⁵⁰ 41	23 ¹⁰ 57	12 ¹⁰ 52	13 ¹⁰ 8	15 ¹⁰ 20	13 ¹⁰ 19	11 ⁵⁰ 34	15 ¹⁰ 3	22 ⁵⁰ 39	S 27
M28	2 23 29	4 ⁶ 47	9 ¹¹ 11	27 ¹³ 13	12 ³⁰ 30	22 ⁹⁰ 9	27 ⁵⁰ 41	24 ⁴⁰ 4	12 ¹⁰ 51	13 ¹⁰ 6	15 ¹⁰ 19	13 ¹⁰ 11	11 ⁵⁰ 31	15 ¹⁰ 9	22 ⁵⁰ 37	M28
T 29	2 27 25	5 ⁶ 46	2 ¹⁰ 31	28 ²² 22	13 ⁴⁵ 45	22 ⁵² 52	27 ⁵⁰ 42	24 ¹¹ 11	12 ¹⁰ 51	13 ¹⁰ 4	15 ¹⁰ 18	13 ¹⁰ 1	11 ⁵⁰ 28	15 ¹⁰ 16	22 ⁵⁰ 35	T 29
W30	2 31 22	6 ⁶ 48	4 ¹⁰ 40	29 ²⁸ 28	15 ⁵⁰ 0	23 ³⁵ 35	27 ⁵⁰ 43	24 ¹⁷ 17	12 ¹⁰ 50	13 ¹⁰ 3	15 ¹⁰ 17	12 ¹⁰ 51	11 ⁵⁰ 25	15 ¹⁰ 23	22 ⁵⁰ 33	W30
T 31	2 35 18	7 ¹¹ 11	16 ⁵⁰ 55	0 ¹⁰ 32	16 ¹¹ 16	24 ¹¹ 17	27 ⁵⁰ 44	24 ¹¹ 24	12 ¹⁰ 50	13 ¹⁰ 1	15 ¹⁰ 16	12 ¹⁰ 41	11 ⁵⁰ 22	15 ¹⁰ 22	22 ⁵⁰ 32	T 31

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
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ASTRODIENST EPHEMERIS for the year 1867

geocentric

NOVEMBER 1867

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Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	2 39 15	8♈ 6'55	28♌58	1♈33	17♈31	25♈0	27♈46	24♈31	12°R49	13°R 0	15°R15	12°R33	11°R19	15♈36	22°R30	F 1
S 2	2 43 11	9° 7'01	10♈53	2°31	18°46	25°43	27°48	24°38	12°R48	12°Y58	15♈14	12°R27	11°15	15°43	22°R28	S 2
S 3	2 47 8	10° 7'09	22°43	3°26	20° 1	26°26	27°50	24°45	12°48	12°57	15°12	12°23	11°12	15°50	22°26	S 3
M 4	2 51 4	11° 7'19	4♈34	4°18	21°16	27° 9	27°52	24°52	12°47	12°56	15°11	12°21	11° 9	15°56	22°25	M 4
T 5	2 55 1	12° 7'30	16°29	5° 4	22°31	27°52	27°54	24°59	12°46	12°54	15°10	12°D21	11° 6	16° 3	22°23	T 5
W 6	2 58 58	13° 7'42	28°34	5°47	23°46	28°35	27°56	25° 6	12°45	12°53	15° 9	12°21	11° 3	16°10	22°22	W 6
T 7	3 2 54	14° 7'56	10♈55	6°24	25° 1	29°18	27°59	25°13	12°44	12°51	15° 8	12°R22	11° 0	16°16	22°20	T 7
F 8	3 6 51	15° 8'12	23°37	6°55	26°16	0♈ 1	28° 2	25°20	12°43	12°50	15° 7	12°21	10°56	16°23	22°19	F 8
S 9	3 10 47	16° 8'29	6♈42	7°19	27°31	0°44	28° 5	25°28	12°42	12°49	15° 6	12°19	10°53	16°30	22°18	S 9
S10	3 14 44	17° 8'47	20°13	7°37	28°47	1°28	28° 8	25°35	12°41	12°47	15° 5	12°13	10°50	16°36	22°16	S10
M11	3 18 40	18° 9'07	4♈11	7°46	0♈ 2	2°11	28°12	25°42	12°40	12°46	15° 3	12° 6	10°47	16°43	22°15	M11
T12	3 22 37	19° 9'29	18°30	7°R47	1°17	2°54	28°15	25°49	12°39	12°45	15° 2	11°56	10°44	16°50	22°14	T12
W13	3 26 33	20° 9'53	3♈ 7	7°38	2°32	3°38	28°19	25°56	12°37	12°44	15° 1	11°45	10°40	16°57	22°13	W13
T14	3 30 30	21°10'18	17°53	7°20	3°47	4°21	28°23	26° 3	12°36	12°42	15° 0	11°34	10°37	17° 3	22°11	T14
F15	3 34 27	22°10'45	2♈40	6°52	5° 2	5° 5	28°27	26°10	12°35	12°41	14°59	11°25	10°34	17°10	22°10	F15
S16	3 38 23	23°11'14	17°20	6°13	6°17	5°49	28°32	26°17	12°33	12°40	14°58	11°18	10°31	17°17	22° 9	S16
S17	3 42 20	24°11'44	1♈47	5°24	7°32	6°32	28°36	26°25	12°32	12°39	14°57	11°14	10°28	17°23	22° 8	S17
M18	3 46 16	25°12'17	15°59	4°25	8°47	7°16	28°41	26°32	12°30	12°38	14°56	11°12	10°25	17°30	22° 8	M18
T19	3 50 13	26°12'51	29°54	3°18	10° 2	8° 0	28°46	26°39	12°29	12°37	14°55	11°D12	10°21	17°37	22° 7	T19
W20	3 54 9	27°13'27	13♈32	2° 3	11°18	8°44	28°51	26°46	12°27	12°35	14°53	11°R12	10°18	17°43	22° 6	W20
T21	3 58 6	28°14'04	26°55	0°44	12°33	9°28	28°56	26°53	12°26	12°34	14°52	11°11	10°15	17°50	22° 5	T21
F22	4 2 2	29°14'44	10♈ 4	29♈23	13°48	10°12	29° 2	27° 0	12°24	12°33	14°51	11° 8	10°12	17°57	22° 4	F22
S23	4 5 59	0♈15'25	23° 2	28° 1	15° 3	10°56	29° 8	27° 7	12°22	12°32	14°50	11° 3	10° 9	18° 4	22° 4	S23
S24	4 9 56	1°16'07	5♈48	26°43	16°18	11°40	29°13	27°15	12°21	12°31	14°49	10°54	10° 6	18°10	22° 3	S24
M25	4 13 52	2°16'51	18°25	25°30	17°33	12°24	29°19	27°22	12°19	12°30	14°48	10°42	10° 2	18°17	22° 3	M25
T26	4 17 49	3°17'37	0♈51	24°25	18°48	13° 8	29°26	27°29	12°17	12°29	14°47	10°28	9°59	18°24	22° 2	T26
W27	4 21 45	4°18'24	13° 7	23°29	20° 3	13°52	29°32	27°36	12°15	12°29	14°46	10°13	9°56	18°30	22° 2	W27
T28	4 25 42	5°19'12	25°14	22°44	21°18	14°37	29°38	27°43	12°13	12°28	14°45	9°59	9°53	18°37	22° 2	T28
F29	4 29 38	6°20'01	7♈13	22°10	22°33	15°21	29°45	27°50	12°11	12°27	14°44	9°46	9°50	18°44	22° 1	F29
S30	4 33 35	7♈20'51	19♈ 5	21♈48	23♈49	16♈ 5	29°52	27°57	12°9	12°26	14°43	9°36	9°46	18°50	22° 1	S30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s13	18s34	4n53	23s15	2s50	16s42	0n23	19s22	0s21	13s25	1s14	17s 4	1n54	23n11	0n21	3n37	1s39	1n20	15s44	6n51	7n20	18s19	0n46	4n 5			
S 2	14 33	18 32	4 29	23 28	2 51	17 5	0 20	19 33	0 21	13 24	1 14	17 6	1 54	23 12	0 21	3 37	1 39	1 20	15 44	6 54	7 21	18 19	0 45	4 5			
S 3	14 52	17 42	3 53	23 39	2 51	17 28	0 18	19 43	0 22	13 23	1 14	17 8	1 54	23 12	0 21	3 36	1 39	1 19	15 44	6 55	7 22	18 18	0 45	4 4			
M 4	15 10	16 5	3 8	23 48	2 50	17 50	0 16	19 54	0 22	13 22	1 14	17 10	1 53	23 12	0 21	3 36	1 39	1 19	15 44	6 56	7 23	18 18	0 44	4 4			
T 5	15 29	13 47	2 14	23 55	2 49	18 12	0 13	20 4	0 23	13 21	1 13	17 11	1 53	23 12	0 21	3 35	1 39	1 19	15 44	6 56	7 24	18 18	0 43	4 4			
W 6	15 47	10 50	1 13	24 1	2 46	18 33	0 11	20 14	0 24	13 20	1 13	17 13	1 53	23 12	0 21	3 35	1 39	1 18	15 44	6 56	7 26	18 18	0 42	4 4			
T 7	16 5	7 21	0 8	24 4	2 43	18 54	0 9	20 24	0 24	13 19	1 13	17 15	1 53	23 12	0 22	3 34	1 39	1 18	15 44	6 56	7 27	18 17	0 41	4 3			
F 8	16 23	3 27	1s 0	24 5	2 39	19 14	0 6	20 34	0 25	13 18	1 13	17 17	1 53	23 12	0 22	3 34	1 39	1 18	15 44	6 56	7 28	18 17	0 40	4 3			
S 9	16 41	0n44	2 6	24 4	2 33	19 34	0 4	20 44	0 25	13 17	1 13	17 18	1 53	23 12	0 22	3 33	1 38	1 18	15 44	6 57	7 29	18 17	0 40	4 3			
S10	16 58	5 1	3 7	24 0	2 27	19 53	0 1	20 53	0 26	13 16	1 12	17 20	1 53	23 12	0 22	3 33	1 38	1 17	15 44	6 59	7 31	18 16	0 39	4 3			
M11	17 15	9 10	3 59	23 54	2 19	20 11	0s 1	21 3	0 27	13 14	1 12	17 22	1 53	23 13	0 22	3 32	1 38	1 17	15 44	7 2	7 32	18 16	0 38	4 2			
T12	17 31	12 54	4 38	23 45	2 9	20 29	0 4	21 12	0 27	13 13	1 12	17 24	1 53	23 13	0 22	3 32	1 38	1 17	15 44	7 5	7 33	18 16	0 37	4 2			
W13	17 48	15 54	4 59	23 33	1 58	20 47	0 6	21 21	0 28	13 11	1 12	17 25	1 53	23 13	0 22	3 31	1 38	1 16	15 44	7 10	7 34	18 16	0 37	4 2			
T14	18 4	17 55	5 0	23 17	1 46	21 4	0 9	21 29	0 28	13 10	1 12	17 27	1 53	23 13	0 22	3 31	1 38	1 16	15 44	7 14	7 35	18 15	0 36	4 2			
F15	18 19	18 44	4 42	22 58	1 32	21 20	0 11	21 38	0 29	13 8	1 12	17 29	1 53	23 13	0 22	3 30	1 38	1 16	15 44	7 17	7 37	18 15	0 35	4 1			
S16	18 35	18 17	4 5	22 36	1 16	21 36	0 14	21 46	0 29	13 7	1 11	17 30	1 53	23 13	0 22	3 30	1 38	1 16	15 44	7 20	7 38	18 15	0 35	4 1			
S17	18 50	16 38	3 13	22 11	0 59	21 51	0 16	21 54	0 30	13 5	1 11	17 32	1 53	23 13	0 22	3 29	1 38	1 15	15 44	7 21	7 39	18 14	0 34	4 1			
M18	19 5	14 0	2 9	21 42	0 40	22 5	0 19	22 2	0 30	13 3	1 11	17 34	1 53	23 14	0 22	3 29	1 38	1 15	15 44	7 22	7 40	18 14	0 34	4 1			
T19	19 19	10 35	1 0	21 10	0 21	22 19	0 21	22 10	0 31	13 1	1 11	17 36	1 53	23 14	0 22	3 29	1 38	1 15	15 44	7 22	7 41	18 14	0 33	4 0			
W20	19 33	6 40	0n12	20 35	0 0	22 32	0 23	22 17	0 32	12 59	1 11	17 37	1 53	23 14	0 22	3 28	1 38	1 15	15 43	7 22	7 43	18 13	0 32	4 0			
T21	19 47	2 29	1 22	19 59	0n20	22 45	0 26	22 25	0 32	12 57	1 11	17 39	1 52	23 14	0 22	3 28	1 38	1 15	15 43	7 22	7 44	18 13	0 32	4 0			
F22	20 0	1s45	2 26	19 22	0 41	22 56	0 28	22 32	0 33	12 55	1 10	17 41	1 52	23 14	0 22	3 28	1 38	1 14	15 43	7 24	7 45	18 13	0 31	3 59			
S23	20 13	5 50	3 22	18 45	1 0	23 7	0 31	22 39	0 33	12 53	1 10	17 42	1 52	23 14	0 22	3 27	1 38	1 14	15 43	7 26	7 46	18 12	0 31	3 59			
S24	20 26	9 35	4 6	18 9	1 19	23 18	0 33	22 45	0 34	12 51	1 10	17 44	1 52	23 15	0 22	3 27	1 38	1 14	15 43	7 29	7 47	18 12	0 30	3 59			
M25	20 38	12 52	4 38	17 35	1 36	23 28	0 36	22 52	0 34	12 48	1 10	17 45	1 52	23 15	0 22	3 26	1 38	1 14	15 43	7 34	7 49	18 12	0 30	3 59			
T26	20 50	15 31	4 56	17 5	1 51	23 37	0 38	22 58	0 35	12 46	1 10	17 47	1 52	23 15	0 22	3 26	1 38	1 14	15 43	7 39	7 50	18 11	0 29	3 58			
W27	21 1	17 26	4 59	16 39	2 4	23 45	0 40	23 4	0 35	12 44	1 10	17 49	1 52	23 15	0 22	3 26	1 38	1 14	15 43	7 44	7 51	18 11	0 29	3 58			
T28	21 12	18 33	4 49	16 17	2 15	23 53	0 43	23 10	0 36	12 41	1 9	17 50	1 52	23 15	0 22	3 26	1 38	1 13	15 43	7 50	7 52	18 11	0 29	3 58			
F29	21 23	18 49	4 27	16 0	2 24	23 59	0 45	23 15	0 36	12 39	1 9	17 52	1 52	23 16	0 22	3 25	1 38	1 13	15 42	7 55	7 53	18 10	0 28	3 58			
S30	21s33	18s16	3n52	15s48	2n31	24s 6	0s47	23s20	0s37	12s36	1s 9	17s54	1n52	23n16	0n22	3n25	1s38	1n13	15s42	7n59	7n55	18s10	0n28	3n57			

ASTRODIENST EPHEMERIS for the year 1867

geocentric

DECEMBER 1867

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 37 31	8°21'43	0°53	21°D38	25°4 4	16°450	29°559	28°4 4	12°R 7	12°R25	14°R42	9°R28	9°43	18°57	22°R 1	S 1
M 2	4 41 28	9°22'35	12°41	21°M38	26°19	17°34	0°6	28°11	12°5	12°Y25	14°41	9°24	9°40	19°4	22°M 1	M 2
T 3	4 45 25	10°23'28	24°33	21°48	27°34	18°19	0°13	28°18	12°3	12°24	14°40	9°22	9°37	19°10	22°T 1	T 3
W 4	4 49 21	11°24'22	6°35	22°8	28°49	19°4	0°21	28°26	12°1	12°23	14°39	9°21	9°34	19°17	22°W 1	W 4
T 5	4 53 18	12°25'16	18°52	22°36	0°4	19°48	0°28	28°33	11°59	12°22	14°38	9°21	9°31	19°24	22°T 1	T 5
F 6	4 57 14	13°26'12	1°Y29	23°12	1°19	20°33	0°36	28°40	11°57	12°22	14°37	9°20	9°27	19°31	22°F 1	F 6
S 7	5 1 11	14°27'08	14°31	23°55	2°34	21°18	0°44	28°47	11°55	12°21	14°36	9°18	9°24	19°37	22°S 1	S 7
S 8	5 5 7	15°28'04	28°2	24°44	3°49	22°3	0°52	28°54	11°53	12°21	14°35	9°12	9°21	19°44	22°S 1	S 8
M 9	5 9 4	16°29'02	12°8	25°38	5°4	22°48	1°1	29°0	11°50	12°20	14°34	9°4	9°18	19°51	22°M 1	M 9
T 10	5 13 0	17°30'00	26°32	26°37	6°19	23°32	1°9	29°7	11°48	12°20	14°33	8°54	9°15	19°57	22°T 1	T 10
W 11	5 16 57	18°30'59	11°II24	27°40	7°34	24°17	1°17	29°14	11°46	12°19	14°32	8°42	9°12	20°4	22°W 1	W 11
T 12	5 20 54	19°31'59	26°30	28°47	8°49	25°2	1°26	29°21	11°43	12°19	14°31	8°31	9°8	20°11	22°T 1	T 12
F 13	5 24 50	20°32'59	11°541	29°56	10°4	25°48	1°35	29°28	11°41	12°18	14°30	8°21	9°5	20°17	22°F 1	F 13
S 14	5 28 47	21°34'01	26°45	1°9	11°19	26°33	1°44	29°35	11°39	12°18	14°29	8°13	9°2	20°24	22°S 1	S 14
S 15	5 32 43	22°35'03	11°Ω34	2°23	12°34	27°18	1°53	29°42	11°36	12°18	14°29	8°8	8°59	20°31	22°S 1	S 15
M 16	5 36 40	23°36'07	26°2	3°40	13°49	28°3	2°2	29°48	11°34	12°17	14°28	8°5	8°56	20°37	22°M 1	M 16
T 17	5 40 36	24°37'11	10°Π6	4°59	15°4	28°48	2°12	29°55	11°31	12°17	14°27	8°D 5	8°52	20°44	22°T 1	T 17
W 18	5 44 33	25°38'16	23°47	6°19	16°19	29°34	2°21	0°8	11°29	12°17	14°26	8°R 5	8°49	20°51	22°W 1	W 18
T 19	5 48 29	26°39'21	7°6	7°40	17°34	0°19	2°31	0°8	11°26	12°17	14°25	8°5	8°46	20°57	22°T 1	T 19
F 20	5 52 26	27°40'28	20°6	9°3	18°49	1°4	2°40	0°15	11°24	12°17	14°25	8°3	8°43	21°4	22°F 1	F 20
S 21	5 56 23	28°41'36	2°M50	10°27	20°4	1°50	2°50	0°22	11°21	12°16	14°24	7°58	8°40	21°11	22°S 1	S 21
S 22	6 0 19	29°42'44	15°21	11°51	21°19	2°35	3°0	0°28	11°19	12°16	14°23	7°50	8°37	21°18	22°S 1	S 22
M 23	6 4 16	0°34'52	27°42	13°17	22°34	3°21	3°10	0°35	11°16	12°16	14°22	7°40	8°33	21°24	22°M 1	M 23
T 24	6 8 12	1°45'02	9°454	14°43	23°49	4°7	3°21	0°41	11°14	12°D16	14°22	7°28	8°30	21°31	22°T 1	T 24
W 25	6 12 9	2°46'12	21°58	16°10	25°4	4°52	3°31	0°48	11°11	12°16	14°21	7°14	8°27	21°38	22°W 1	W 25
T 26	6 16 5	3°47'22	3°57	17°38	26°18	5°38	3°41	0°54	11°9	12°16	14°20	7°2	8°24	21°44	22°T 1	T 26
F 27	6 20 2	4°48'32	15°50	19°6	27°33	6°24	3°52	1°1	11°6	12°16	14°19	6°50	8°21	21°51	22°F 1	F 27
S 28	6 23 58	5°49'43	27°40	20°35	28°48	7°10	4°3	1°7	11°4	12°17	14°19	6°41	8°18	21°58	22°S 1	S 28
S 29	6 27 55	6°50'53	9°28	22°4	0°3	7°55	4°13	1°13	11°1	12°17	14°18	6°34	8°14	22°4	22°S 1	S 29
M 30	6 31 52	7°52'04	21°17	23°33	1°18	8°41	4°24	1°19	10°58	12°17	14°18	6°30	8°11	22°11	22°M 1	M 30
T 31	6 35 48	8°53'15	3°H10	25°4 3	2°33	9°27	4°H35	1°26	10°56	12°Y17	14°H17	6°D29	8°H 8	22°H18	22°T 1	T 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	21s43	16s54	3n 8	15s41	2n35	24s11	0s49	23s25	0s37	12s34	1s 9	17s55	1n52	23n16	0n22	3n57
M 2	21 52	14 50	2 16	15 38	2 38	24 16	0 52	23 30	0 38	12 31	1 9	17 57	1 52	23 16	0 22	3 57
T 3	22 1	12 8	1 18	15 39	2 40	24 20	0 54	23 35	0 38	12 28	1 9	17 58	1 52	23 16	0 22	3 56
W 4	22 10	8 52	0 15	15 45	2 39	24 23	0 56	23 39	0 39	12 25	1 8	18 0	1 52	23 17	0 22	3 56
T 5	22 18	5 11	0s50	15 53	2 38	24 25	0 58	23 43	0 39	12 23	1 8	18 1	1 52	23 17	0 22	3 56
F 6	22 26	1 10	1 54	16 5	2 35	24 27	1 0	23 47	0 40	12 20	1 8	18 3	1 52	23 17	0 22	3 56
S 7	22 33	3n 3	2 55	16 19	2 32	24 28	1 2	23 50	0 40	12 17	1 8	18 4	1 52	23 17	0 22	3 55
S 8	22 40	7 14	3 47	16 35	2 28	24 28	1 4	23 54	0 41	12 14	1 8	18 6	1 52	23 18	0 22	3 55
M 9	22 46	11 12	4 28	16 52	2 23	24 27	1 6	23 57	0 41	12 11	1 8	18 7	1 52	23 18	0 22	3 55
T 10	22 52	14 37	4 54	17 11	2 17	24 26	1 8	24 0	0 42	12 8	1 8	18 9	1 52	23 18	0 22	3 54
W 11	22 57	17 12	5 0	17 32	2 11	24 24	1 10	24 2	0 42	12 4	1 7	18 10	1 52	23 18	0 22	3 54
T 12	23 2	18 38	4 46	17 53	2 4	24 21	1 12	24 5	0 43	12 1	1 7	18 12	1 52	23 18	0 22	3 54
F 13	23 7	18 45	4 12	18 14	1 58	24 18	1 14	24 7	0 43	11 58	1 7	18 13	1 52	23 19	0 22	3 54
S 14	23 11	17 33	3 20	18 36	1 50	24 13	1 15	24 8	0 44	11 54	1 7	18 15	1 52	23 19	0 22	3 53
S 15	23 15	15 9	2 16	18 58	1 43	24 8	1 17	24 10	0 44	11 51	1 7	18 16	1 52	23 19	0 22	3 53
M 16	23 18	11 51	1 3	19 20	1 36	24 2	1 19	24 11	0 45	11 48	1 7	18 17	1 52	23 19	0 22	3 53
T 17	23 21	7 57	0n11	19 42	1 28	23 56	1 20	24 12	0 45	11 44	1 7	18 19	1 52	23 20	0 22	3 52
W 18	23 23	3 44	1 22	20 4	1 20	23 49	1 22	24 13	0 46	11 41	1 6	18 20	1 53	23 20	0 22	3 52
T 19	23 25	0s34	2 28	20 25	1 12	23 41	1 23	24 13	0 46	11 37	1 6	18 22	1 53	23 20	0 22	3 52
F 20	23 26	4 43	3 23	20 45	1 5	23 32	1 25	24 14	0 47	11 33	1 6	18 23	1 53	23 20	0 22	3 52
S 21	23 27	8 35	4 8	21 6	0 57	23 22	1 26	24 14	0 47	11 30	1 6	18 24	1 53	23 20	0 22	3 51
S 22	23 27	11 59	4 40	21 25	0 49	23 12	1 27	24 13	0 48	11 26	1 6	18 26	1 53	23 21	0 22	3 51
M 23	23 27	14 49	4 58	21 44	0 41	23 1	1 29	24 13	0 48	11 22	1 6	18 27	1 53	23 21	0 22	3 51
T 24	23 27	16 58	5 2	22 2	0 33	22 50	1 30	24 12	0 48	11 18	1 6	18 28	1 53	23 21	0 22	3 50
W 25	23 25	18 21	4 53	22 19	0 26	22 38	1 31	24 11	0 49	11 15	1 6	18 29	1 53	23 21	0 22	3 50
T 26	23 24	18 54	4 30	22 35	0 18	22 25	1 32	24 9	0 49	11 11	1 5	18 31	1 53	23 22	0 23	3 50
F 27	23 22	18 36	3 56	22 50	0 10	22 11	1 33	24 8	0 50	11 7	1 5	18 32	1 53	23 22	0 23	3 50
S 28	23 20	17 30	3 12	23 4	0 3	21 57	1 34	24 6	0 50	11 3	1 5	18 33	1 53	23 22	0 23	3 49
S 29	23 17	15 39	2 19	23 17	0s 4	21 42	1 35	24 3	0 51	10 59	1 5	18 34	1 53	23 22	0 23	3 49
M 30	23 13	13 9	1 21	23 29	0 12	21 26	1 36	24 1	0 51	10 55	1 5	18 36	1 53	23 22	0 23	3 49
T 31	23s 9	10s 4	0n18	23s40	0s19	21s10	1s37	23s58	0s51	10s50	1s 5	18s37	1n53	23n23	0n23	3n49

Julian Day Number = 2403301.5, Delta T = 5.00 sec
 Ecliptic obliquity = 23°27'14, Nutation = - 0°00'07, out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°53'45, Lahiri = 22°00'45