



Astrodienst Ephemeris Tables for the year 1866

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 1866

geocentric

JANUARY 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	6 41 40	10°32'44"	6°41'	23°R26	26°A56	25°A35	10°B28	10°M16	1°R31	7°Y50	12°R22	17°R10	16°A44	0°M55	14°K57	M 1
T 2	6 45 37	11°25'49"	20°46'	23°A13	28°11'	26°19'	10°42'	10°20'	1°B29	7°50'	12°B21	16°A57	16°41'	1° 2'	14°59'	T 2
W 3	6 49 33	12°26'57"	4°U32	23°D 9	29°27'	27° 4'	10°56'	10°25'	1°26'	7°51'	12°21'	16°44'	16°38'	1° 8'	15° 1'	W 3
T 4	6 53 30	13°28'06"	17°54'	23°14'	0°B42	27°48'	11° 9'	10°29'	1°24'	7°51'	12°20'	16°33'	16°35'	1°15'	15° 4'	T 4
F 5	6 57 26	14°29'15"	0°M53	23°27'	1°57'	28°33'	11°23'	10°34'	1°21'	7°52'	12°20'	16°25'	16°32'	1°21'	15° 6'	F 5
S 6	7 1 23	15°30'23"	13°29'	23°48'	3°13'	29°18'	11°37'	10°38'	1°19'	7°53'	12°20'	16°19'	16°28'	1°28'	15° 8'	S 6
S 7	7 5 19	16°31'32"	25°45'	24°16'	4°28'	0°B 2	11°51'	10°43'	1°16'	7°53'	12°19'	16°16'	16°25'	1°35'	15°10'	S 7
M 8	7 9 16	17°32'41"	7°A47	24°50'	5°44'	0°47'	12° 5'	10°47'	1°14'	7°54'	12°19'	16°15'	16°22'	1°41'	15°13'	M 8
T 9	7 13 12	18°33'49"	19°38'	25°29'	6°59'	1°32'	12°19'	10°51'	1°11'	7°55'	12°18'	16°15'	16°19'	1°48'	15°15'	T 9
W10	7 17 9	19°34'58"	1°M26	26°14'	8°14'	2°17'	12°33'	10°55'	1° 9'	7°55'	12°18'	16°15'	16°16'	1°55'	15°18'	W10
T11	7 21 6	20°36'07"	13°15'	27° 3'	9°30'	3° 2'	12°47'	10°59'	1° 6'	7°56'	12°18'	16°13'	16°13'	2° 1'	15°20'	T11
F12	7 25 2	21°37'15"	25°10'	27°56'	10°45'	3°47'	13° 1'	11° 3'	1° 4'	7°57'	12°17'	16° 9'	16° 9'	2° 8'	15°23'	F12
S13	7 28 59	22°38'24"	7°A17	28°53'	12° 1'	4°32'	13°14'	11° 7'	1° 2'	7°58'	12°17'	16° 3'	16° 6'	2°15'	15°25'	S13
S14	7 32 55	23°39'32"	19°38'	29°53'	13°16'	5°17'	13°28'	11°10'	0°59'	7°59'	12°17'	15°53'	16° 3'	2°21'	15°28'	S14
M15	7 36 52	24°40'40"	2°B17	0°B56	14°31'	6° 2'	13°42'	11°14'	0°57'	7°59'	12°17'	15°41'	16° 0'	2°28'	15°30'	M15
T16	7 40 48	25°41'47"	15°14'	2° 1'	15°47'	6°47'	13°56'	11°17'	0°55'	8° 0'	12°16'	15°28'	15°57'	2°35'	15°33'	T16
W17	7 44 45	26°42'54"	28°27'	3° 9'	17° 2'	7°32'	14°10'	11°21'	0°53'	8° 1'	12°16'	15°14'	15°54'	2°41'	15°36'	W17
T18	7 48 41	27°44'00"	11°A56	4°19'	18°18'	8°17'	14°23'	11°24'	0°50'	8° 2'	12°16'	15° 2'	15°50'	2°48'	15°39'	T18
F19	7 52 38	28°45'06"	25°37'	5°31'	19°33'	9° 2'	14°37'	11°27'	0°48'	8° 3'	12°16'	14°52'	15°47'	2°55'	15°41'	F19
S20	7 56 35	29°46'11"	9°A27	6°45'	20°48'	9°48'	14°51'	11°31'	0°46'	8° 4'	12°16'	14°44'	15°44'	3° 1'	15°44'	S20
S21	8 0 31	0°A47'14"	23°24'	8° 1'	22° 4'	10°33'	15° 4'	11°34'	0°44'	8° 6'	12°15'	14°40'	15°41'	3° 8'	15°47'	S21
M22	8 4 28	1°48'17"	7°Y24	9°18'	23°19'	11°18'	15°18'	11°37'	0°42'	8° 7'	12°15'	14°39'	15°38'	3°15'	15°50'	M22
T23	8 8 24	2°49'19"	21°27'	10°36'	24°34'	12° 4'	15°32'	11°40'	0°40'	8° 8'	12°15'	14°D38	15°34'	3°21'	15°53'	T23
W24	8 12 21	3°50'19"	5°B32	11°55'	25°50'	12°49'	15°45'	11°42'	0°37'	8° 9'	12°15'	14°R39	15°31'	3°28'	15°56'	W24
T25	8 16 17	4°51'19"	19°37'	13°16'	27° 5'	13°34'	15°59'	11°45'	0°35'	8°10'	12°15'	14°38'	15°28'	3°34'	15°59'	T25
F26	8 20 14	5°52'17"	3°II43	14°38'	28°20'	14°20'	16°12'	11°48'	0°33'	8°12'	12°D15	14°35'	15°25'	3°41'	16° 2'	F26
S27	8 24 10	6°53'14"	17°47'	16° 1'	29°36'	15° 5'	16°26'	11°50'	0°32'	8°13'	12°15'	14°29'	15°22'	3°48'	16° 5'	S27
S28	8 28 7	7°54'10"	1°B47	17°25'	0°A51	15°51'	16°39'	11°53'	0°30'	8°14'	12°15'	14°21'	15°19'	3°54'	16° 8'	S28
M29	8 32 4	8°55'05"	15°39'	18°50'	2° 6'	16°36'	16°53'	11°55'	0°28'	8°15'	12°15'	14°11'	15°15'	4° 1'	16°11'	M29
T30	8 36 0	9°55'59"	29°19'	20°16'	3°22'	17°22'	17° 6'	11°57'	0°26'	8°17'	12°15'	13°59'	15°12'	4° 8'	16°14'	T30
W31	8 39 57	10°A56'51"	12°U45	21°B43	4°A37	18°B 8	17°B20	11°M59	0°B24	8°Y18	12°B15	13°A48	15°A 9	4°M14	16°K18	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	23s 3	18n22	4s56	20s10	3n 8	23s14	0n11	23s54	0s31	23s 4	0s 2	12s42	2n19	23n42	0n16	1n42
T 2	22 58	16 54	5 0	20 13	3 4	23 18	0 8	23 56	0 32	23 3	0 2	12 43	2 20	23 42	0 16	1 42
W 3	22 52	14 30	4 46	20 17	3 0	23 21	0 6	23 58	0 32	23 2	0 2	12 44	2 20	23 42	0 16	1 42
T 4	22 46	11 23	4 17	20 23	2 54	23 24	0 3	23 59	0 33	23 1	0 2	12 46	2 20	23 42	0 16	1 43
F 5	22 40	7 48	3 36	20 31	2 47	23 25	0 1	24 0	0 34	23 0	0 2	12 47	2 20	23 42	0 16	1 43
S 6	22 33	3 58	2 44	20 39	2 39	23 26	0s 2	24 1	0 34	22 59	0 2	12 48	2 20	23 43	0 16	1 43
S 7	22 26	0 4	1 46	20 49	2 31	23 27	0 4	24 2	0 35	22 58	0 2	12 49	2 20	23 43	0 16	1 44
M 8	22 18	3s46	0 45	20 59	2 23	23 26	0 6	24 3	0 35	22 57	0 2	12 50	2 21	23 43	0 16	1 44
T 9	22 10	7 25	0n18	21 9	2 14	23 25	0 9	24 3	0 36	22 55	0 2	12 51	2 21	23 43	0 16	1 44
W10	22 1	10 44	1 20	21 19	2 5 23	23 23	0 11	24 3	0 37	22 54	0 3	12 52	2 21	23 43	0 16	1 45
T11	21 52	13 38	2 18	21 30	1 55	23 21	0 14	24 2	0 37	22 53	0 2	12 53	2 21	23 43	0 16	1 45
F12	21 43	15 59	3 11	21 40	1 46	23 17	0 16	24 2	0 38	22 52	0 3	12 54	2 22	23 43	0 16	1 45
S13	21 33	17 40	3 55	21 50	1 36	23 13	0 19	24 1	0 38	22 50	0 3	12 55	2 22	23 43	0 16	1 46
S14	21 23	18 34	4 30	22 0	1 27	23 8	0 21	24 0	0 39	22 49	0 3	12 56	2 22	23 43	0 16	1 46
M15	21 12	18 34	4 53	22 10	1 17	23 3	0 23	23 59	0 40	22 48	0 3	12 57	2 22	23 43	0 16	1 46
T16	21 1	17 36	5 1	22 18	1 8	22 57	0 26	23 57	0 40	22 47	0 3	12 58	2 22	23 43	0 16	1 47
W17	20 50	15 42	4 53	22 26	0 59	22 50	0 28	23 55	0 41	22 45	0 3	12 59	2 23	23 43	0 16	1 47
T18	20 38	12 55	4 29	22 34	0 49	22 42	0 30	23 53	0 41	22 44	0 3	13 0	2 23	23 43	0 16	1 48
F19	20 25	9 24	3 49	22 40	0 40	22 34	0 32	23 51	0 42	22 42	0 3	13 1	2 23	23 43	0 16	1 48
S20	20 13	5 20	2 55	22 46	0 31	22 25	0 35	23 48	0 42	22 41	0 3	13 1	2 23	23 43	0 16	1 49
S21	20 0	0 56	1 50	22 50	0 23	22 15	0 37	23 45	0 43	22 40	0 4	13 2	2 23	23 43	0 16	1 49
M22	19 46	3n32	0 38	22 54	0 14	22 5	0 39	23 42	0 44	22 38	0 4	13 3	2 24	23 43	0 16	1 50
T23	19 32	7 49	0s36	22 56	0 5	21 54	0 41	23 38	0 44	22 37	0 4	13 4	2 24	23 43	0 16	1 50
W24	19 18	11 40	1 49	22 58	0s 3	21 42	0 43	23 35	0 45	22 35	0 4	13 4	2 24	23 43	0 16	1 51
T25	19 4	14 51	2 55	22 58	0 11	21 30	0 45	23 31	0 45	22 34	0 4	13 5	2 24	23 43	0 16	1 51
F26	18 49	17 9	3 50	22 58	0 19	21 17	0 47	23 27	0 46	22 32	0 4	13 5	2 25	23 43	0 16	1 52
S27	18 34	18 24	4 31	22 56	0 27	21 3	0 49	23 22	0 46	22 31	0 4	13 6	2 25	23 43	0 16	1 52
S28	18 18	18 31	4 56	22 53	0 34	20 49	0 51	23 17	0 47	22 29	0 4	13 6	2 25	23 43	0 16	1 53
M29	18 2	17 31	5 3	22 49	0 41	20 34	0 53	23 12	0 48	22 28	0 4	13 7	2 25	23 43	0 16	1 53
T30	17 46	15 32	4 52	22 43	0 48	20 18	0 55	23 7	0 48	22 26	0 4	13 7	2 25	23 43	0 16	1 54
W31	17s30	12n44	4s26	22s36	0s55	20s 2	0s57	23s 2	0s49	22s24	0s 5	13s 8	2n26	23n43	0n16	1n54

Julian Day Number = 2402602.5, Delta T = 7.35 sec
 Ecliptic obliquity = 23°27'15", Nutation = 0°00'06", out-of-bounds declination in red
 Ayanamsha: Fagan/Bradley = 22°52'09", Lahiri = 21°59'09"

ASTRODIENST EPHEMERIS for the year 1866

geocentric

FEBRUARY 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	8 43 53	11 ⁵⁷ 42	25 ⁵² 53	23 ³⁰ 10	5 ⁵⁵ 52	18 ³⁵ 53	17 ³³ 33	12 ¹¹ 1	0 ⁰ R22	8 ¹⁷ 20	12 ¹⁸ 16	13 ⁰ R38	15 ⁵ 6	4 ¹¹ 21	16 ¹⁶ 21	T 1
F 2	8 47 50	12 ⁵⁸ 33	8 ¹¹ 43	24 ³⁹	7 ⁰ 7	19 ³⁹	17 ⁴⁶	12 ⁰ 3	0 ⁰ 21	8 ²¹	12 ¹⁶	13 ⁵ 31	15 ⁰ 3	4 ²⁸	16 ²⁴	F 2
S 3	8 51 46	13 ⁵⁹ 22	21 ⁰ 14	26 ⁰ 8	8 ²³	20 ²⁵	18 ⁰ 0	12 ⁰ 5	0 ⁰ 19	8 ²³	12 ¹⁶	13 ²⁶	15 ⁰ 0	4 ³⁴	16 ²⁷	S 3
S 4	8 55 43	15 ⁰ 10	3 ⁵ 29	27 ³⁸	9 ³⁸	21 ¹¹	18 ¹³	12 ⁰ 7	0 ⁰ 17	8 ²⁴	12 ¹⁶	13 ²³	14 ⁵⁶	4 ⁴¹	16 ³¹	S 4
M 5	8 59 39	16 ⁰ 57	15 ³¹	29 ⁰ 9	10 ⁵³	21 ⁵⁶	18 ²⁶	12 ⁰ 8	0 ⁰ 16	8 ²⁶	12 ¹⁶	13 ⁰ D22	14 ⁵³	4 ⁴⁸	16 ³⁴	M 5
T 6	9 3 36	17 ⁰ 144	27 ²³	0 ⁵⁵ 41	12 ⁰ 8	22 ⁴²	18 ³⁹	12 ¹⁰	0 ⁰ 14	8 ²⁷	12 ¹⁷	13 ²³	14 ⁵⁰	4 ⁵⁴	16 ³⁷	T 6
W 7	9 7 33	18 ⁰ 229	9 ¹¹ 11	2 ⁰ 14	13 ²⁴	23 ²⁸	18 ⁵²	12 ¹¹	0 ⁰ 13	8 ²⁹	12 ¹⁷	13 ²⁴	14 ⁴⁷	5 ⁰ 1	16 ⁴¹	W 7
T 8	9 11 29	19 ⁰ 313	21 ⁰ 1	3 ⁴⁷	14 ³⁹	24 ¹⁴	19 ⁰ 5	12 ¹²	0 ⁰ 11	8 ³⁰	12 ¹⁷	13 ⁰ R25	14 ⁴⁴	5 ⁰ 8	16 ⁴⁴	T 8
F 9	9 15 26	20 ⁰ 356	2 ⁵⁷ 57	5 ²¹	15 ⁵⁴	25 ⁰	19 ¹⁸	12 ¹⁴	0 ⁰ 10	8 ³²	12 ¹⁷	13 ²³	14 ⁴⁰	5 ¹⁴	16 ⁴⁸	F 9
S 10	9 19 22	21 ⁰ 438	15 ⁰ 5	6 ⁵⁶	17 ⁰ 9	25 ⁴⁶	19 ³¹	12 ¹⁵	0 ⁰ 8	8 ³⁴	12 ¹⁸	13 ²⁰	14 ³⁷	5 ²¹	16 ⁵¹	S 10
S 11	9 23 19	22 ⁰ 519	27 ²⁹	8 ³²	18 ²⁵	26 ³²	19 ⁴⁴	12 ¹⁶	0 ⁰ 7	8 ³⁵	12 ¹⁸	13 ¹⁵	14 ³⁴	5 ²⁸	16 ⁵⁵	S 11
M12	9 27 15	23 ⁰ 559	10 ³ 13	10 ⁰ 9	19 ⁴⁰	27 ¹⁸	19 ⁵⁷	12 ¹⁶	0 ⁰ 6	8 ³⁷	12 ¹⁸	13 ⁰ 8	14 ³¹	5 ³⁴	16 ⁵⁸	M12
T 13	9 31 12	24 ⁰ 638	23 ¹⁹	11 ⁴⁷	20 ⁵⁵	28 ⁰ 4	20 ⁰ 9	12 ¹⁷	0 ⁰ 5	8 ³⁹	12 ¹⁹	13 ⁰ 0	14 ²⁸	5 ⁴¹	17 ⁰ 2	T 13
W14	9 35 8	25 ⁰ 715	6 ⁵⁷ 47	13 ²⁵	22 ¹⁰	28 ⁵⁰	20 ²²	12 ¹⁸	0 ⁰ 3	8 ⁴⁰	12 ¹⁹	12 ⁵¹	14 ²⁵	5 ⁴⁸	17 ⁰ 5	W14
T 15	9 39 5	26 ⁰ 751	20 ³⁶	15 ⁰ 4	23 ²⁵	29 ³⁶	20 ³⁵	12 ¹⁹	0 ⁰ 2	8 ⁴²	12 ²⁰	12 ⁴³	14 ²¹	5 ⁵⁴	17 ⁰ 9	T 15
F 16	9 43 2	27 ⁰ 825	4 ¹¹ 41	16 ⁴⁴	24 ⁴⁰	0 ⁵⁷ 22	20 ⁴⁷	12 ¹⁹	0 ⁰ 1	8 ⁴⁴	12 ²⁰	12 ³⁶	14 ¹⁸	6 ⁰ 1	17 ¹²	F 16
S 17	9 46 58	28 ⁰ 858	18 ⁵⁸	18 ²⁶	25 ⁵⁶	1 ⁰ 8	21 ⁰ 0	12 ¹⁹	0 ⁰ 0	8 ⁴⁶	12 ²⁰	12 ³²	14 ¹⁵	6 ⁰ 8	17 ¹⁶	S 17
S 18	9 50 55	29 ⁰ 929	3 ¹⁷ 22	20 ⁰ 8	27 ¹¹	1 ⁵⁴	21 ¹²	12 ²⁰	29 ¹¹ 59	8 ⁴⁸	12 ²¹	12 ³⁰	14 ¹²	6 ¹⁴	17 ²⁰	S 18
M19	9 54 51	0 ¹¹ 958	17 ⁴⁷	21 ⁵¹	28 ²⁶	2 ⁴¹	21 ²⁵	12 ²⁰	29 ⁵⁸	8 ⁵⁰	12 ²¹	12 ⁰ D29	14 ⁰ 9	6 ²¹	17 ²³	M19
T 20	9 58 48	1 ⁰ 1025	2 ¹⁰ 10	23 ³⁴	29 ⁴¹	3 ²⁷	21 ³⁷	12 ⁰ R20	29 ⁵⁷	8 ⁵¹	12 ²²	12 ³⁰	14 ⁰ 6	6 ²⁷	17 ²⁷	T 20
W21	10 2 44	2 ⁰ 1051	16 ²⁶	25 ¹⁹	0 ¹¹ 56	4 ¹³	21 ⁴⁹	12 ²⁰	29 ⁵⁶	8 ⁵³	12 ²³	12 ³²	14 ⁰ 2	6 ³⁴	17 ³⁰	W21
T 22	10 6 41	3 ⁰ 1114	0 ¹¹ 35	27 ⁰ 5	2 ¹¹	4 ⁵⁹	22 ⁰ 1	12 ²⁰	29 ⁵⁶	8 ⁵⁵	12 ²³	12 ⁰ R33	13 ⁵⁹	6 ⁴¹	17 ³⁴	T 22
F 23	10 10 37	4 ⁰ 1136	14 ³⁴	28 ⁵²	3 ²⁶	5 ⁴⁵	22 ¹³	12 ¹⁹	29 ⁵⁵	8 ⁵⁷	12 ²⁴	12 ³²	13 ⁵⁶	6 ⁴⁷	17 ³⁸	F 23
S 24	10 14 34	5 ⁰ 1156	28 ²³	0 ¹¹ 40	4 ⁴¹	6 ³²	22 ²⁵	12 ¹⁹	29 ⁵⁴	8 ⁵⁹	12 ²⁴	12 ³⁰	13 ⁵³	6 ⁵⁴	17 ⁴²	S 24
S 25	10 18 31	6 ⁰ 1213	12 ⁵ 1	2 ²⁸	5 ⁵⁶	7 ¹⁸	22 ³⁷	12 ¹⁸	29 ⁵⁴	9 ⁰ 1	12 ²⁵	12 ²⁶	13 ⁵⁰	7 ⁰ 1	17 ⁴⁵	S 25
M26	10 22 27	7 ⁰ 1229	25 ³⁷	4 ¹⁸	7 ¹¹	8 ⁰ 4	22 ⁴⁹	12 ¹⁸	29 ⁵³	9 ⁰ 3	12 ²⁶	12 ²¹	13 ⁴⁶	7 ⁰ 7	17 ⁴⁹	M26
T 27	10 26 24	8 ⁰ 1242	8 ¹¹ 41	6 ⁰ 9	8 ²⁶	8 ⁵¹	23 ⁰ 1	12 ¹⁷	29 ⁵³	9 ⁰ 5	12 ²⁶	12 ¹⁵	13 ⁴³	7 ⁰ 14	17 ⁵³	T 27
W28	10 30 20	9 ⁰ 1254	21 ¹¹ 42	8 ¹¹ 0	9 ¹¹ 41	9 ⁵⁷ 37	23 ³ 13	12 ¹¹ 16	29 ¹¹ 52	9 ¹⁷ 7	12 ²⁷	12 ⁵ 9	13 ⁵ 40	7 ¹¹ 21	17 ¹¹ 56	W28

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	17s13	9n22	3s45	22s28	1s 1	19s46	0s59	22s56	0s49	22s23	0s 5	13s 8	2n26	23n43	0n16	1n55	1s31	0n36	15s38	5s23	5s57	11s23	1s22	4n22	
F 2	16 56	5 37	2 54	22 19	1 8	19 28	1 0	22 50	0 50	22 21	0 5	13 8	2 26	23 43	0 16	1 56	1 31	0 36	15 38	5 20	5 56	11 24	1 21	4 22	
S 3	16 38	1 42	1 56	22 8	1 14	19 11	1 2	22 44	0 50	22 19	0 5	13 9	2 26	23 43	0 16	1 56	1 31	0 37	15 37	5 18	5 55	11 25	1 20	4 22	
S 4	16 21	2s12	0 53	21 57	1 19	18 52	1 4	22 37	0 51	22 18	0 5	13 9	2 27	23 43	0 16	1 57	1 31	0 37	15 37	5 17	5 53	11 27	1 19	4 21	
M 5	16 3	5 56	0n11	21 43	1 25	18 33	1 5	22 31	0 51	22 16	0 5	13 9	2 27	23 43	0 16	1 57	1 30	0 38	15 37	5 17	5 52	11 28	1 18	4 21	
T 6	15 44	9 23	1 15	21 29	1 30	18 14	1 7	22 24	0 52	22 14	0 5	13 10	2 27	23 43	0 16	1 58	1 30	0 38	15 36	5 17	5 51	11 30	1 16	4 21	
W 7	15 26	12 27	2 14	21 13	1 35	17 54	1 8	22 16	0 52	22 13	0 5	13 10	2 27	23 43	0 16	1 59	1 30	0 38	15 36	5 18	5 50	11 31	1 15	4 21	
T 8	15 7	15 0	3 8	20 55	1 39	17 33	1 10	22 9	0 53	22 11	0 5	13 10	2 28	23 43	0 16	1 59	1 30	0 39	15 36	5 18	5 48	11 33	1 14	4 21	
F 9	14 48	16 55	3 55	20 37	1 43	17 12	1 11	22 1	0 53	22 9	0 5	13 10	2 28	23 43	0 16	2 0	1 30	0 39	15 35	5 17	5 47	11 34	1 13	4 21	
S 10	14 29	18 8	4 31	20 17	1 47	16 51	1 12	21 53	0 54	22 8	0 6	13 10	2 28	23 43	0 16	2 1	1 30	0 40	15 35	5 16	5 46	11 36	1 12	4 20	
S 11	14 9	18 30	4 56	19 55	1 51	16 29	1 13	21 45	0 55	22 6	0 6	13 10	2 28	23 43	0 16	2 1	1 30	0 40	15 35	5 14	5 45	11 37	1 11	4 20	
M12	13 50	17 57	5 7	19 33	1 54	16 7	1 15	21 37	0 55	22 4	0 6	13 10	2 29	23 43	0 16	2 2	1 30	0 40	15 34	5 11	5 44	11 38	1 9	4 20	
T 13	13 30	16 28	5 3	19 8	1 57	15 44	1 16	21 28	0 56	22 2	0 6	13 10	2 29	23 43	0 16	2 3	1 30	0 41	15 34	5 8	5 42	11 40	1 8	4 20	
W14	13 9	14 3	4 41	18 43	2 0	15 21	1 17	21 19	0 56	22 0	0 6	13 10	2 29	23 43	0 16	2 4	1 30	0 41	15 34	5 5	5 41	11 41	1 7	4 20	
T 15	12 49	10 47	4 3	18 16	2 2	14 57	1 18	21 10	0 57	21 59	0 6	13 10	2 29	23 43	0 16	2 4	1 30	0 42	15 33	5 1	5 40	11 43	1 6	4 20	
F 16	12 28	6 51	3 10	17 47	2 4	14 33	1 19	21 1	0 57	21 57	0 6	13 10	2 29	23 43	0 16	2 5	1 30	0 42	15 33	4 59	5 39	11 44	1 4	4 19	
S 17	12 7	2 28	2 4	17 18	2 5	14 8	1 20	20 51	0 58	21 55	0 6	13 10	2 30	23 43	0 16	2 6	1 30	0 43	15 33	4 57	5 37	11 45	1 3	4 19	
S 18	11 46	2n 6	0 49	16 46	2 6	13 43	1 21	20 41	0 58	21 53	0 6	13 10	2 30	23 43	0 16	2 7	1 30	0 43	15 32	4 56	5 36	11 47	1 2	4 19	
M19	11 25	6 32	0s29	16 14	2 7	13 18	1 21	20 31	0 59	21 51	0 7	13 10	2 30	23 43	0 16	2 7	1 30	0 44	15 32	4 56	5 35	11 48	1 1	4 19	
T 20	11 4	10 35	1 45	15 40	2 7	12 52	1 22	20 21	0 59	21 50	0 7	13 9	2 30	23 43	0 16	2 8	1 30	0 44	15 32	4 57	5 34	11 50	0 59	4 19	
W21	10 42	13 59	2 54	15 5	2 7	12 26	1 23	20 11	0 59	21 48	0 7	13 9	2 31	23 43	0 16	2 9	1 30	0 45	15 31	4 57	5 32	11 51	0 58	4 19	
T 22	10 21	16 30	3 52	14 28	2 6	12 0	1 24	20 0	1 0	21 46	0 7	13 9	2 31	23 43	0 16	2 10	1 30	0 45	15 31	4 57	5 31	11 52	0 57	4 19	
F 23	9 59	18 0	4 35	13 50	2 5	11 33	1 24	19 49	1 0	21 44	0 7	13 9	2 31	23 43	0 16	2 10	1 30	0 45	15 31	4 57	5 30	11 54	0 55	4 19	
S 24	9 37	18 25	5 2	13 10	2 3	11 7	1 25	19 38	1 1	21 42	0 7	13 8	2 31	23 43	0 16	2 11	1 30	0 46	15 30	4 56	5 29	11 55	0 54	4 18	
S 25	9 14	17 45	5 11	12 29	2 1	10 39	1 25	19 27	1 1	21 40	0 7	13 8	2 32	23 43	0 16	2 12	1 30	0 46	15 30	4 55	5 28	11 57	0 53	4 18	
M26	8 52	16 6	5 3	11 47	1 59	10 12	1 25	19 15	1 2	21 39	0 7	13 8	2 32	23 43	0 16	2 13	1 30	0 47	15 30	4 53	5 26	11 58	0 51	4 18	
T 27	8 30	13 37	4 39	11 7	1 55	9 44	1 26	19 4	1 2	21 37	0 7	13 7	2 32	23 43	0 16	2 14	1 30	0 47	15 30	4 51	5 25	11 59	0 50	4 18	
W28	8s 7	10n29	4s 1	10s18	1s52	9s16	1s26	18s52	1s 3	21s35	0s 8	13s 7	2n32	23n43	0n16	2n14	1s30	0n48	15s29	4s48	5s24	12s 1	0s49	4n18	

ASTRODIENST EPHEMERIS for the year 1866
geocentric

MARCH 1866

00:00 UT

Day	Sid.t	☉	☽	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	Day
T 1	10 34 17	10 ^h 13'04	4 ^m 29	9 ^h 53	10 ^h 56	10 ^h 23	23 ^h 24	12 ^h R15	29 ^h R52	9 ^h 9	12 ^h 828	12 ^h R 4	13 ^h 237	7 ^h 27	18 ^h 0	T 1
F 2	10 38 13	11 ^h 13'12	17° 2	11°46	12°11	11°10	23°36	12 ^h 14	29 ^h II51	9°11	12°28	12 ^h 2 0	13°34	7°34	18° 4	F 2
S 3	10 42 10	12 ^h 13'18	29°22	13°41	13°26	11°56	23°48	12°13	29°51	9°13	12°29	11°58	13°31	7°41	18° 8	S 3
S 4	10 46 6	13°13'22	11 ^h 230	15°36	14°41	12°43	23°59	12°12	29°51	9°15	12°30	11°D57	13°27	7°47	18°11	S 4
M 5	10 50 3	14°13'24	23°28	17°32	15°56	13°29	24°10	12°11	29°50	9°17	12°31	11°58	13°24	7°54	18°15	M 5
T 6	10 53 59	15°13'25	5 ^m 19	19°28	17°11	14°16	24°21	12°10	29°50	9°19	12°31	11°59	13°21	8° 1	18°19	T 6
W 7	10 57 56	16°13'24	17° 8	21°25	18°26	15° 2	24°33	12° 8	29°50	9°22	12°32	12° 1	13°18	8° 7	18°23	W 7
T 8	11 1 53	17°13'22	28°58	23°22	19°41	15°49	24°44	12° 6	29°D50	9°24	12°33	12° 3	13°15	8°14	18°26	T 8
F 9	11 5 49	18°13'18	10 ^h 54	25°20	20°55	16°35	24°55	12° 5	29°50	9°26	12°34	12° 4	13°11	8°21	18°30	F 9
S 10	11 9 46	19°13'12	23° 0	27°17	22°10	17°22	25° 5	12° 3	29°50	9°28	12°35	12°R 4	13° 8	8°27	18°34	S 10
S 11	11 13 42	20°13'05	5 ^h 23	29°14	23°25	18° 8	25°16	12° 1	29°50	9°30	12°36	12° 3	13° 5	8°34	18°38	S 11
M12	11 17 39	21°12'56	18° 5	1 ^h 11	24°40	18°55	25°27	11°59	29°51	9°32	12°37	12° 1	13° 2	8°41	18°41	M12
T 13	11 21 35	22°12'45	1 ^h 11	3° 7	25°55	19°41	25°37	11°57	29°51	9°34	12°37	11°59	12°59	8°47	18°45	T 13
W14	11 25 32	23°12'32	14°42	5° 1	27° 9	20°28	25°48	11°55	29°51	9°37	12°38	11°56	12°56	8°54	18°49	W14
T 15	11 29 28	24°12'18	28°38	6°54	28°24	21°14	25°58	11°53	29°51	9°39	12°39	11°54	12°52	9° 1	18°53	T 15
F 16	11 33 25	25°12'01	12 ^h 57	8°45	29°39	22° 1	26° 8	11°50	29°52	9°41	12°40	11°52	12°49	9° 7	18°56	F 16
S 17	11 37 22	26°11'43	27°34	10°34	0 ^h 54	22°48	26°19	11°48	29°52	9°43	12°41	11°50	12°46	9°14	19° 0	S 17
S 18	11 41 18	27°11'23	12 ^h 22	12°20	2° 8	23°34	26°29	11°46	29°53	9°46	12°42	11°D50	12°43	9°21	19° 4	S 18
M19	11 45 15	28°11'00	27°13	14° 2	3°23	24°21	26°39	11°43	29°53	9°48	12°43	11°50	12°40	9°27	19° 7	M19
T 20	11 49 11	29°10'36	12 ^h 8	15°40	4°38	25° 8	26°48	11°40	29°54	9°50	12°44	11°51	12°37	9°34	19°11	T 20
W21	11 53 8	0 ^h 10'09	26°40	17°14	5°52	25°54	26°58	11°38	29°54	9°52	12°45	11°52	12°33	9°41	19°15	W21
T 22	11 57 4	1° 9'40	11 ^h 11	18°44	7° 7	26°41	27° 8	11°35	29°55	9°54	12°46	11°53	12°30	9°47	19°19	T 22
F 23	12 1 1	2° 9'09	25°10	20° 8	8°21	27°27	27°17	11°32	29°56	9°57	12°47	11°53	12°27	9°54	19°22	F 23
S 24	12 4 57	3° 8'35	8 ^h 57	21°27	9°36	28°14	27°27	11°29	29°57	9°59	12°48	11°R53	12°24	10° 1	19°26	S 24
S 25	12 8 54	4° 7'59	22°25	22°40	10°50	29° 1	27°36	11°26	29°58	10° 1	12°50	11°53	12°21	10° 7	19°30	S 25
M26	12 12 51	5° 7'21	5 ^h 23	23°47	12° 5	29°47	27°45	11°23	29°59	10° 4	12°51	11°52	12°17	10°14	19°33	M26
T 27	12 16 47	6° 6'40	18°30	24°47	13°19	0 ^h 34	27°54	11°19	29°59	10° 6	12°52	11°52	12°14	10°21	19°37	T 27
W28	12 20 44	7° 5'57	1 ^h 9	25°41	14°34	1°20	28° 3	11°16	0 ^h 1	10° 8	12°53	11°51	12°11	10°27	19°41	W28
T 29	12 24 40	8° 5'12	13°36	26°28	15°48	2° 7	28°11	11°13	0° 2	10°10	12°54	11°50	12° 8	10°34	19°44	T 29
F 30	12 28 37	9° 4'24	25°52	27° 8	17° 3	2°54	28°20	11° 9	0° 3	10°13	12°55	11°50	12° 5	10°41	19°48	F 30
S 31	12 32 33	10 ^h 3'35	7 ^h 259	27 ^h 40	18 ^h 17	3 ^h 40	28 ^h 29	11 ^h 6	0 ^h 4	10 ^h 15	12 ^h 856	11°D50	12 ^h 2	10 ^h 47	19 ^h 51	S 31

Day	☉	☾		♊		♋		♌		♍		♎		♏		♐		♑		♒	♓	♈	♉	♊	♋	♌	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	lat	decl	lat	decl	lat
T 1	7s45	6n55	3s11	9s32	1s48	8s48	1s26	18s40	1s 3	21s33	0s 8	13s 6	2n32	23n43	0n16	2n15	1s30	0n48	15s29	4s46	5s23	12s 2	0s47	4n18			
F 2	7 22	3 6	2 12	8 44	1 43	8 19	1 26	18 27	1 4	21 31	0 8	13 6	2 33	23 43	0 16	2 16	1 30	0 49	15 29	4 45	5 21	12 4	0 46	4 18			
S 3	6 59	0s48	1 9	7 56	1 38	7 50	1 26	18 15	1 4	21 29	0 8	13 5	2 33	23 43	0 16	2 17	1 30	0 49	15 28	4 44	5 20	12 5	0 44	4 18			
S 4	6 36	4 35	0 3	7 6	1 32	7 22	1 26	18 2	1 4	21 27	0 8	13 5	2 33	23 43	0 16	2 18	1 30	0 50	15 28	4 44	5 19	12 6	0 43	4 18			
M 5	6 13	8 9	1n 3	6 15	1 26	6 52	1 26	17 49	1 5	21 26	0 8	13 4	2 33	23 43	0 16	2 19	1 30	0 50	15 28	4 44	5 18	12 8	0 42	4 18			
T 6	5 50	11 20	2 5	5 23	1 19	6 23	1 26	17 36	1 5	21 24	0 8	13 3	2 34	23 43	0 16	2 19	1 30	0 51	15 27	4 45	5 16	12 9	0 40	4 18			
W 7	5 26	14 3	3 2	4 30	1 11	5 54	1 26	17 23	1 6	21 22	0 8	13 3	2 34	23 43	0 16	2 20	1 30	0 51	15 27	4 45	5 15	12 10	0 39	4 17			
T 8	5 3	16 11	3 51	3 36	1 3	5 24	1 25	17 9	1 6	21 20	0 9	13 2	2 34	23 43	0 16	2 21	1 30	0 52	15 27	4 46	5 14	12 12	0 38	4 17			
F 9	4 40	17 38	4 30	2 41	0 54	4 54	1 25	16 56	1 6	21 18	0 9	13 1	2 34	23 43	0 16	2 22	1 30	0 52	15 27	4 46	5 13	12 13	0 36	4 17			
S 10	4 16	18 18	4 58	1 46	0 45	4 24	1 25	16 42	1 7	21 16	0 9	13 1	2 34	23 43	0 16	2 23	1 30	0 53	15 26	4 46	5 11	12 15	0 35	4 17			
S 11	3 53	18 7	5 13	0 50	0 35	3 54	1 24	16 28	1 7	21 15	0 9	13 0	2 35	23 43	0 16	2 24	1 30	0 53	15 26	4 46	5 10	12 16	0 33	4 17			
M12	3 29	17 3	5 14	0n 6	0 25	3 24	1 24	16 14	1 8	21 13	0 9	12 59	2 35	23 43	0 16	2 24	1 30	0 54	15 26	4 45	5 9	12 17	0 32	4 17			
T 13	3 5	15 3	4 58	1 2	0 14	2 54	1 23	16 0	1 8	21 11	0 9	12 58	2 35	23 43	0 16	2 25	1 30	0 54	15 25	4 44	5 8	12 19	0 30	4 17			
W14	2 42	12 12	4 26	1 57	0 3	2 24	1 22	15 45	1 8	21 9	0 9	12 57	2 35	23 43	0 16	2 26	1 30	0 55	15 25	4 43	5 6	12 20	0 29	4 17			
T 15	2 18	8 34	3 37	2 53	0n 9	1 53	1 22	15 31	1 9	21 7	0 9	12 57	2 35	23 43	0 16	2 27	1 30	0 55	15 25	4 42	5 5	12 21	0 28	4 17			
F 16	1 54	4 21	2 33	3 48	0 21	1 23	1 21	15 16	1 9	21 5	0 10	12 56	2 36	23 43	0 16	2 28	1 30	0 56	15 25	4 42	5 4	12 23	0 26	4 17			
S 17	1 31	0n14	1 18	4 42	0 33	0 52	1 20	15 1	1 9	21 4	0 10	12 55	2 36	23 43	0 16	2 29	1 30	0 56	15 24	4 41	5 3	12 24	0 25	4 17			
S 18	1 7	4 51	0s 3	5 35	0 46	0 22	1 19	14 46	1 10	21 2	0 10	12 54	2 36	23 43	0 16	2 30	1 30	0 57	15 24	4 41	5 2	12 25	0 23	4 17			
M19	0 43	9 11	1 24	6 26	0 58	0n 9	1 18	14 31	1 10	21 0	0 10	12 53	2 36	23 43	0 16	2 31	1 30	0 58	15 24	4 41	5 0	12 27	0 22	4 17			
T 20	0 20	12 55	2 40	7 16	1 11	0 40	1 17	14 16	1 10	20 58	0 10	12 52	2 36	23 43	0 16	2 31	1 30	0 58	15 24	4 41	4 59	12 28	0 21	4 17			
W21	0n 4	15 47	3 44	8 4	1 23	1 10	1 16	14 0	1 11	20 57	0 10	12 51	2 36	23 43	0 16	2 32	1 30	0 59	15 23	4 42	4 58	12 29	0 19	4 17			
T 22	0 28	17 37	4 33	8 49	1 36	1 41	1 15	13 45	1 11	20 55	0 10	12 50	2 37	23 43	0 16	2 33	1 30	0 59	15 23	4 42	4 57	12 31	0 18	4 17			
F 23	0 51	18 18	5 4	9 32	1 48	2 11	1 14	13 29	1 11	20 53	0 10	12 49	2 37	23 43	0 16	2 34	1 30	1 0	15 23	4 42	4 55	12 32	0 16	4 17			
S 24	1 15	17 53	5 17	10 13	2 0	2 42	1 13	13 13	1 12	20 52	0 11	12 48	2 37	23 43	0 16	2 35	1 30	1 0	15 23	4 42	4 54	12 33	0 15	4 17			
S 25	1 39	16 27	5 12	10 51	2 11	3 12	1 11	12 57	1 12	20 50	0 11	12 47	2 37	23 43	0 16	2 36	1 30	1 1	15 23	4 42	4 53	12 35	0 13	4 17			
M26	2 2	14 11	4 51	11 26	2 21	3 42	1 10	12 41	1 12	20 48	0 11	12 46	2 37	23 43	0 16	2 37	1 30	1 1	15 22	4 42	4 52	12 36	0 12	4 17			
T 27	2 26	11 15	4 15	11 57	2 31	4 13	1 8	12 25	1 13	20 46	0 11	12 44	2 37	23 43	0 16	2 38	1 30	1 2	15 22	4 42	4 50	12 37	0 11	4 17			
W28	2 49	7 50	3 27	12 25	2 41	4 43	1 7	12 8	1 13	20 45	0 11	12 43	2 38	23 43	0 16	2 39	1 30	1 2	15 22	4 41	4 49	12 39	0 9	4 17			
T 29	3 13	4 8	2 31	12 50	2 49	5 13	1 5	11 52	1 13	20 43	0 11	12 42	2 38	23 43	0 16	2 39	1 30	1 3	15 22	4 41	4 48	12 40	0 8	4 17			
F 30	3 36	0 18	1 28	13 11	2 56	5 43	1 4	11 35	1 13	20 42	0 11	12 41	2 38	23 43	0 16	2 40	1 30	1 3	15 22	4 41	4 47	12 41	0 6	4 17			
S 31	3n59	3s30	0s21	13n29	3n 2	6n13	1s 2	11s19	1s14	20s40	0s12	12s40	2n38	23n43	0n16	2n41	1s30	1n 4	15s21	4s41	4s45	12s43	0s 5	4n17			

ASTRODIENST EPHEMERIS for the year 1866
geocentric

APRIL 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 36 30	11° 2'43	19° 58	28° 6	19° 31	4° 27	28° 37	11° 2	0° 5	10° 17	12° 57	11° 50	11° 58	10° 54	19° 55	S 1
M 2	12 40 26	12° 1'49	1° 51	28° 24	20° 46	5° 14	28° 45	10° 59	0° 6	10° 19	12° 59	11° 50	11° 55	11° 0	19° 58	M 2
T 3	12 44 23	13° 0'54	13° 41	28° 35	22° 0	6° 0	28° 53	10° 55	0° 8	10° 22	13° 0	11° 50	11° 52	11° 7	20° 2	T 3
W 4	12 48 19	13° 59'56	25° 30	28° R39	23° 14	6° 47	29° 1	10° 51	0° 9	10° 24	13° 1	11° 50	11° 49	11° 14	20° 5	W 4
T 5	12 52 16	14° 58'57	7° 21	28° 36	24° 29	7° 33	29° 9	10° 47	0° 10	10° 26	13° 2	11° 49	11° 46	11° 20	20° 9	T 5
F 6	12 56 13	15° 57'56	19° 18	28° 27	25° 43	8° 20	29° 17	10° 43	0° 12	10° 28	13° 3	11° 49	11° 42	11° 27	20° 12	F 6
S 7	13 0 9	16° 56'53	1° 24	28° 12	26° 57	9° 7	29° 24	10° 40	0° 13	10° 31	13° 5	11° 49	11° 39	11° 34	20° 16	S 7
S 8	13 4 6	17° 55'49	13° 45	27° 50	28° 11	9° 53	29° 32	10° 36	0° 15	10° 33	13° 6	11° D48	11° 36	11° 40	20° 19	S 8
M 9	13 8 2	18° 54'42	26° 23	27° 24	29° 26	10° 40	29° 39	10° 32	0° 17	10° 35	13° 7	11° 48	11° 33	11° 47	20° 23	M 9
T 10	13 11 59	19° 53'34	9° 23	26° 53	0° 40	11° 26	29° 46	10° 28	0° 18	10° 37	13° 8	11° 49	11° 30	11° 54	20° 26	T 10
W 11	13 15 55	20° 52'24	22° 48	26° 17	1° 54	12° 13	29° 53	10° 23	0° 20	10° 40	13° 10	11° 50	11° 27	12° 0	20° 29	W 11
T 12	13 19 52	21° 51'13	6° 40	25° 39	3° 8	12° 59	29° 59	10° 19	0° 22	10° 42	13° 11	11° 50	11° 23	12° 7	20° 33	T 12
F 13	13 23 48	22° 49'59	20° 58	24° 58	4° 22	13° 46	0° 7	10° 15	0° 24	10° 44	13° 12	11° 51	11° 20	12° 14	20° 36	F 13
S 14	13 27 45	23° 48'44	5° 39	24° 15	5° 36	14° 32	0° 13	10° 11	0° 25	10° 46	13° 14	11° R52	11° 17	12° 20	20° 39	S 14
S 15	13 31 42	24° 47'27	20° 38	23° 31	6° 50	15° 19	0° 19	10° 7	0° 27	10° 49	13° 15	11° 52	11° 14	12° 27	20° 43	S 15
M 16	13 35 38	25° 46'08	5° 47	22° 48	8° 4	16° 5	0° 26	10° 2	0° 29	10° 51	13° 16	11° 51	11° 11	12° 34	20° 46	M 16
T 17	13 39 35	26° 44'47	20° 56	22° 5	9° 18	16° 52	0° 32	9° 58	0° 31	10° 53	13° 17	11° 49	11° 8	12° 40	20° 49	T 17
W 18	13 43 31	27° 43'24	5° 15	21° 23	10° 32	17° 38	0° 38	9° 54	0° 33	10° 55	13° 19	11° 48	11° 4	12° 47	20° 52	W 18
T 19	13 47 28	28° 41'59	20° 58	20° 44	11° 46	18° 25	0° 43	9° 49	0° 35	10° 57	13° 20	11° 46	11° 1	12° 54	20° 55	T 19
F 20	13 51 24	29° 40'32	4° 59	20° 8	13° 0	19° 11	0° 49	9° 45	0° 37	11° 0	13° 21	11° 44	10° 58	13° 0	20° 58	F 20
S 21	13 55 21	0° 39'02	18° 54	19° 35	14° 14	19° 58	0° 54	9° 40	0° 40	11° 2	13° 23	11° 43	10° 55	13° 7	21° 2	S 21
S 22	13 59 17	1° 37'30	2° 23	19° 5	15° 28	20° 44	1° 0	9° 36	0° 42	11° 4	13° 24	11° D42	10° 52	13° 14	21° 5	S 22
M 23	14 3 14	2° 35'57	15° 29	18° 40	16° 42	21° 30	1° 5	9° 31	0° 44	11° 6	13° 25	11° 43	10° 48	13° 20	21° 8	M 23
T 24	14 7 11	3° 34'21	28° 14	18° 20	17° 56	22° 17	1° 10	9° 27	0° 46	11° 8	13° 27	11° 44	10° 45	13° 27	21° 11	T 24
W 25	14 11 7	4° 32'42	10° 41	18° 4	19° 10	23° 3	1° 14	9° 22	0° 49	11° 10	13° 28	11° 45	10° 42	13° 34	21° 14	W 25
T 26	14 15 4	5° 31'02	22° 54	17° 52	20° 23	23° 49	1° 19	9° 18	0° 51	11° 13	13° 29	11° 47	10° 39	13° 40	21° 16	T 26
F 27	14 19 0	6° 29'20	4° 58	17° 46	21° 37	24° 35	1° 23	9° 13	0° 53	11° 15	13° 31	11° 48	10° 36	13° 47	21° 19	F 27
S 28	14 22 57	7° 27'36	16° 54	17° D45	22° 51	25° 22	1° 28	9° 9	0° 56	11° 17	13° 32	11° R48	10° 33	13° 54	21° 22	S 28
S 29	14 26 53	8° 25'50	28° 45	17° 48	24° 5	26° 8	1° 32	9° 4	0° 58	11° 19	13° 33	11° 47	10° 29	14° 0	21° 25	S 29
M 30	14 30 50	9° 24'02	10° 35	17° 57	25° 18	26° 54	1° 36	9° 0	1° 1	11° 21	13° 35	11° 44	10° 26	14° 7	21° 28	M 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4n22 7s 7	0n45 13n43	3n 7 6n43	1s 1 11s 2	1s14 20s38	0s12 12s39	2n38 23n43	0n16 2n42	1s30 1n 4	15s21 4s41	4s44 12s44	0s 3 4n17				
M 2	4 46 10 25	1 49 13 53	3 11 7 12	0 59 10 45	1 14 20 37	0 12 12 37	2 38 23 43	0 16 2 43	1 30 1 5	15 21 4 41	4 43 12 45	0 2 4 17				
T 3	5 9 13 17	2 48 14 0	3 14 7 42	0 57 10 28	1 14 20 35	0 12 12 36	2 38 23 43	0 16 2 44	1 30 1 5	15 21 4 41	4 42 12 47	0 1 4 17				
W 4	5 32 15 35	3 40 14 2	3 15 8 11	0 55 10 11	1 15 20 34	0 12 12 35	2 38 23 43	0 16 2 45	1 30 1 6	15 21 4 41	4 40 12 48	0n 1 4 17				
T 5	5 54 17 14	4 22 14 1	3 14 8 40	0 53 9 54	1 15 20 32	0 12 12 34	2 39 23 43	0 15 2 46	1 30 1 6	15 20 4 41	4 39 12 49	0 2 4 17				
F 6	6 17 18 9	4 54 13 56	3 13 9 9	0 51 9 37	1 15 20 31	0 12 12 32	2 39 23 43	0 15 2 47	1 30 1 7	15 20 4 41	4 38 12 51	0 4 4 17				
S 7	6 40 18 14	5 12 13 47	3 9 9 37	0 50 9 19	1 15 20 30	0 13 12 31	2 39 23 43	0 15 2 47	1 30 1 7	15 20 4 41	4 37 12 52	0 5 4 17				
S 8	7 2 17 29	5 17 13 34	3 4 10 6	0 48 9 2	1 16 20 28	0 13 12 30	2 39 23 43	0 15 2 48	1 30 1 8	15 20 4 40	4 35 12 53	0 6 4 17				
M 9	7 25 15 51	5 8 13 19	2 57 10 34	0 46 8 45	1 16 20 27	0 13 12 28	2 39 23 43	0 15 2 49	1 30 1 8	15 20 4 40	4 34 12 54	0 8 4 17				
T 10	7 47 13 23	4 42 13 0	2 49 11 2	0 43 8 27	1 16 20 25	0 13 12 27	2 39 23 43	0 15 2 50	1 30 1 9	15 20 4 40	4 33 12 56	0 9 4 17				
W 11	8 9 10 8	4 0 12 38	2 40 11 30	0 41 8 9	1 16 20 24	0 13 12 26	2 39 23 43	0 15 2 51	1 30 1 9	15 19 4 41	4 32 12 57	0 10 4 17				
T 12	8 31 6 14	3 3 12 14	2 29 11 57	0 39 7 52	1 16 20 23	0 13 12 24	2 39 23 43	0 15 2 52	1 30 1 10	15 19 4 41	4 31 12 58	0 12 4 17				
F 13	8 53 1 51	1 53 11 47	2 16 12 24	0 37 7 34	1 16 20 22	0 13 12 23	2 39 23 43	0 15 2 53	1 30 1 10	15 19 4 41	4 29 13 0	0 13 4 17				
S 14	9 15 2n46	0 34 11 19	2 3 12 51	0 35 7 16	1 17 20 20	0 14 12 21	2 39 23 43	0 15 2 53	1 30 1 11	15 19 4 42	4 28 13 1	0 15 4 18				
S 15	9 36 7 19	0s48 10 49	1 49 13 18	0 33 6 58	1 17 20 19	0 14 12 20	2 39 23 43	0 15 2 54	1 30 1 11	15 19 4 42	4 27 13 2	0 16 4 18				
M 16	9 58 11 26	2 9 10 19	1 33 13 44	0 30 6 40	1 17 20 18	0 14 12 19	2 39 23 43	0 15 2 55	1 30 1 12	15 19 4 41	4 26 13 4	0 17 4 18				
T 17	10 19 14 47	3 20 9 48	1 17 14 10	0 28 6 22	1 17 20 17	0 14 12 17	2 40 23 43	0 15 2 56	1 30 1 12	15 19 4 40	4 24 13 5	0 19 4 18				
W 18	10 40 17 6	4 17 9 17	1 1 14 35	0 26 6 4	1 17 20 16	0 14 12 16	2 40 23 43	0 15 2 57	1 30 1 13	15 19 4 40	4 23 13 6	0 20 4 18				
T 19	11 1 18 13	4 55 8 47	0 44 15 0	0 23 5 46	1 17 20 15	0 14 12 14	2 40 23 43	0 15 2 58	1 30 1 13	15 18 4 39	4 22 13 7	0 21 4 18				
F 20	11 22 18 8	5 14 8 17	0 27 15 25	0 21 5 28	1 17 20 13	0 15 12 13	2 40 23 43	0 15 2 59	1 30 1 14	15 18 4 38	4 21 13 9	0 22 4 18				
S 21	11 42 16 56	5 14 7 49	0 10 15 50	0 19 5 10	1 17 20 12	0 15 12 12	2 40 23 43	0 15 2 59	1 30 1 14	15 18 4 38	4 19 13 10	0 24 4 18				
S 22	12 3 14 50	4 56 7 23	0s 6 16 14	0 16 4 52	1 18 20 11	0 15 12 10	2 40 23 43	0 15 3 0	1 30 1 14	15 18 4 38	4 18 13 11	0 25 4 18				
M 23	12 23 12 1	4 23 6 58	0 23 16 37	0 14 4 34	1 18 20 11	0 15 12 9	2 40 23 43	0 15 3 1	1 30 1 15	15 18 4 38	4 17 13 12	0 26 4 18				
T 24	12 43 8 41	3 38 6 36	0 39 17 0	0 11 4 15	1 18 20 10	0 15 12 7	2 40 23 43	0 15 3 2	1 30 1 15	15 18 4 39	4 16 13 14	0 28 4 18				
W 25	13 3 5 3	2 43 6 15	0 54 17 23	0 9 3 57	1 18 20 9	0 15 12 6	2 40 23 43	0 15 3 3	1 30 1 16	15 18 4 39	4 14 13 15	0 29 4 18				
T 26	13 22 1 15	1 42 5 57	1 9 17 45	0 6 3 39	1 18 20 8	0 16 12 5	2 40 23 43	0 15 3 3	1 30 1 16	15 18 4 40	4 13 13 16	0 30 4 19				
F 27	13 41 2s33	0 38 5 42	1 23 18 7	0 4 3 20	1 18 20 7	0 16 12 3	2 40 23 42	0 15 3 4	1 30 1 17	15 18 4 40	4 12 13 18	0 31 4 19				
S 28	14 1 6 13	0n28 5 29	1 36 18 28	0 1 3 2	1 18 20 6	0 16 12 2	2 40 23 42	0 15 3 5	1 30 1 17	15 18 4 40	4 11 13 19	0 32 4 19				
S 29	14 19 9 36	1 32 5 19	1 49 18 49	0n 1 2 44	1 18 20 6	0 16 12 0	2 40 23 42	0 15 3 6	1 30 1 18	15 18 4 40	4 9 13 20	0 34 4 19				
M 30	14n38 12s36	2n32 5n12	2s 0 19n10	0n 4 2s25	1s18 20s 5	0s16 11s59	2n40 23n42	0n15 3n 7	1s30 1n18	15s18 4s39	4s 8 13s21	0n35 4n19				

Julian Day Number = 2402692.5, Delta T = 7.08 sec
Ecliptic obliquity = 23°27'16, Nutation = 0°00'03, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°52'21, Lahiri = 21°59'21

ASTRODIENST EPHEMERIS for the year 1866

geocentric

MAY 1866

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	14 34 46	10 ⁸ 22'12	22 ¹¹ 24	18 ¹⁰ 10	26 ⁸ 32	27 ¹¹ 40	1 ³³ 39	8 ⁰ R55	1 ³³ 3	11 ¹¹ 23	13 ⁸ 36	11 ⁰ R41	10 ¹⁰ 23	14 ¹¹ 14	21 ¹¹ 31	T 1
W 2	14 38 43	11 ⁰ 20'21	4 ¹¹ 16	18 ⁰ 27	27 ⁰ 46	28 ⁰ 26	1 ⁰ 43	8 ¹¹ 51	1 ⁰ 6	11 ⁰ 25	13 ⁰ 38	11 ⁰ 36	10 ⁰ 20	14 ⁰ 20	21 ⁰ 33	W 2
T 3	14 42 40	12 ⁰ 18'28	16 ⁰ 11	18 ⁰ 49	28 ⁰ 59	29 ⁰ 12	1 ⁰ 46	8 ⁰ 46	1 ⁰ 8	11 ⁰ 27	13 ⁰ 39	11 ⁰ 30	10 ⁰ 17	14 ⁰ 27	21 ⁰ 36	T 3
F 4	14 46 36	13 ⁰ 16'34	28 ⁰ 13	19 ⁰ 16	0 ¹¹ 13	29 ⁰ 59	1 ⁰ 50	8 ⁰ 41	1 ⁰ 11	11 ⁰ 29	13 ⁰ 40	11 ⁰ 25	10 ⁰ 14	14 ⁰ 34	21 ⁰ 39	F 4
S 5	14 50 33	14 ⁰ 14'38	10 ⁰ 23	19 ⁰ 47	1 ⁰ 26	0 ¹¹ 45	1 ⁰ 53	8 ⁰ 37	1 ⁰ 14	11 ⁰ 31	13 ⁰ 42	11 ⁰ 20	10 ⁰ 10	14 ⁰ 40	21 ⁰ 41	S 5
S 6	14 54 29	15 ⁰ 12'41	22 ⁰ 45	20 ⁰ 21	2 ⁰ 40	1 ⁰ 31	1 ⁰ 55	8 ⁰ 32	1 ⁰ 17	11 ⁰ 33	13 ⁰ 43	11 ⁰ 17	10 ⁰ 7	14 ⁰ 47	21 ⁰ 44	S 6
M 7	14 58 26	16 ⁰ 10'42	5 ¹¹ 23	21 ⁰ 0	3 ⁰ 53	2 ⁰ 17	1 ⁰ 58	8 ⁰ 28	1 ⁰ 19	11 ⁰ 35	13 ⁰ 44	11 ⁰ 15	10 ⁰ 4	14 ⁰ 54	21 ⁰ 46	M 7
T 8	15 2 22	17 ⁰ 8'42	18 ⁰ 19	21 ⁰ 43	5 ⁰ 7	3 ⁰ 3	2 ⁰ 1	8 ⁰ 23	1 ⁰ 22	11 ⁰ 37	13 ⁰ 46	11 ⁰ D14	10 ⁰ 1	15 ⁰ 0	21 ⁰ 49	T 8
W 9	15 6 19	18 ⁰ 6'41	1 ¹¹ 36	22 ⁰ 29	6 ⁰ 20	3 ⁰ 49	2 ⁰ 3	8 ⁰ 19	1 ⁰ 25	11 ⁰ 39	13 ⁰ 47	11 ⁰ 15	9 ⁰ 58	15 ⁰ 7	21 ⁰ 51	W 9
T 10	15 10 15	19 ⁰ 4'38	15 ⁰ 18	23 ⁰ 18	7 ⁰ 34	4 ⁰ 34	2 ⁰ 5	8 ⁰ 15	1 ⁰ 28	11 ⁰ 41	13 ⁰ 48	11 ⁰ 16	9 ⁰ 54	15 ⁰ 14	21 ⁰ 54	T 10
F 11	15 14 12	20 ⁰ 2'34	29 ⁰ 26	24 ⁰ 11	8 ⁰ 47	5 ⁰ 20	2 ⁰ 7	8 ⁰ 10	1 ⁰ 31	11 ⁰ 43	13 ⁰ 50	11 ⁰ 17	9 ⁰ 51	15 ⁰ 20	21 ⁰ 56	F 11
S 12	15 18 9	21 ⁰ 0'29	13 ⁰ Y59	25 ⁰ 7	10 ⁰ 0	6 ⁰ 6	2 ⁰ 9	8 ⁰ 6	1 ⁰ 34	11 ⁰ 44	13 ⁰ 51	11 ⁰ R18	9 ⁰ 48	15 ⁰ 27	21 ⁰ 58	S 12
S 13	15 22 5	21 ⁰ 58'22	28 ⁰ 53	26 ⁰ 6	11 ⁰ 14	6 ⁰ 52	2 ⁰ 10	8 ⁰ 1	1 ⁰ 36	11 ⁰ 46	13 ⁰ 52	11 ⁰ 17	9 ⁰ 45	15 ⁰ 34	22 ⁰ 0	S 13
M14	15 26 2	22 ⁰ 56'15	14 ⁰ 8	27 ⁰ 9	12 ⁰ 27	7 ⁰ 38	2 ⁰ 11	7 ⁰ 57	1 ⁰ 39	11 ⁰ 48	13 ⁰ 54	11 ⁰ 14	9 ⁰ 42	15 ⁰ 41	22 ⁰ 3	M14
T 15	15 29 58	23 ⁰ 54'05	28 ⁰ 17	28 ⁰ 14	13 ⁰ 40	8 ⁰ 23	2 ⁰ 13	7 ⁰ 53	1 ⁰ 42	11 ⁰ 50	13 ⁰ 55	11 ⁰ 9	9 ⁰ 39	15 ⁰ 47	22 ⁰ 5	T 15
W16	15 33 55	24 ⁰ 51'55	14 ⁰ II27	29 ⁰ 22	14 ⁰ 54	9 ⁰ 9	2 ⁰ 14	7 ⁰ 49	1 ⁰ 45	11 ⁰ 52	13 ⁰ 57	11 ⁰ 3	9 ⁰ 35	15 ⁰ 54	22 ⁰ 7	W16
T 17	15 37 51	25 ⁰ 49'43	29 ⁰ 22	0 ⁸ 33	16 ⁰ 7	9 ⁰ 55	2 ⁰ 14	7 ⁰ 44	1 ⁰ 49	11 ⁰ 53	13 ⁰ 58	10 ⁰ 56	9 ⁰ 32	16 ⁰ 1	22 ⁰ 9	T 17
F 18	15 41 48	26 ⁰ 47'29	13 ⁰ 55	1 ⁰ 46	17 ⁰ 20	10 ⁰ 40	2 ⁰ 15	7 ⁰ 40	1 ⁰ 52	11 ⁰ 55	13 ⁰ 59	10 ⁰ 50	9 ⁰ 29	16 ⁰ 7	22 ⁰ 11	F 18
S 19	15 45 44	27 ⁰ 45'14	28 ⁰ 0	3 ⁰ 3	18 ⁰ 33	11 ⁰ 26	2 ⁰ 15	7 ⁰ 36	1 ⁰ 55	11 ⁰ 57	14 ⁰ 1	10 ⁰ 45	9 ⁰ 26	16 ⁰ 14	22 ⁰ 13	S 19
S 20	15 49 41	28 ⁰ 42'57	11 ⁰ 836	4 ⁰ 21	19 ⁰ 47	12 ⁰ 11	2 ⁰ 16	7 ⁰ 32	1 ⁰ 58	11 ⁰ 59	14 ⁰ 2	10 ⁰ 41	9 ⁰ 23	16 ⁰ 21	22 ⁰ 15	S 20
M21	15 53 38	29 ⁰ 40'38	24 ⁰ 45	5 ⁰ 43	21 ⁰ 0	12 ⁰ 57	2 ⁰ R16	7 ⁰ 28	2 ⁰ 1	12 ⁰ 0	14 ⁰ 3	10 ⁰ D40	9 ⁰ 19	16 ⁰ 27	22 ⁰ 17	M21
T 22	15 57 34	0 ¹¹ 38'18	7 ¹¹ 28	7 ⁰ 7	22 ⁰ 13	13 ⁰ 42	2 ⁰ 15	7 ⁰ 24	2 ⁰ 4	12 ⁰ 2	14 ⁰ 4	10 ⁰ 40	9 ⁰ 16	16 ⁰ 34	22 ⁰ 19	T 22
W23	16 1 31	1 ⁰ 35'56	19 ⁰ 52	8 ⁰ 33	23 ⁰ 26	14 ⁰ 28	2 ⁰ 15	7 ⁰ 20	2 ⁰ 7	12 ⁰ 4	14 ⁰ 6	10 ⁰ 41	9 ⁰ 13	16 ⁰ 41	22 ⁰ 21	W23
T 24	16 5 27	2 ⁰ 33'33	2 ⁰ 0	10 ⁰ 2	24 ⁰ 39	15 ⁰ 13	2 ⁰ 15	7 ⁰ 16	2 ⁰ 11	12 ⁰ 5	14 ⁰ 7	10 ⁰ 42	9 ⁰ 10	16 ⁰ 47	22 ⁰ 22	T 24
F 25	16 9 24	3 ⁰ 31'08	13 ⁰ 57	11 ⁰ 33	25 ⁰ 52	15 ⁰ 58	2 ⁰ 14	7 ⁰ 12	2 ⁰ 14	12 ⁰ 7	14 ⁰ 8	10 ⁰ R42	9 ⁰ 7	16 ⁰ 54	22 ⁰ 24	F 25
S 26	16 13 20	4 ⁰ 28'42	25 ⁰ 48	13 ⁰ 6	27 ⁰ 5	16 ⁰ 43	2 ⁰ 13	7 ⁰ 8	2 ⁰ 17	12 ⁰ 8	14 ⁰ 10	10 ⁰ 41	9 ⁰ 4	17 ⁰ 1	22 ⁰ 26	S 26
S 27	16 17 17	5 ⁰ 26'15	7 ¹¹ 36	14 ⁰ 42	28 ⁰ 18	17 ⁰ 29	2 ⁰ 12	7 ⁰ 5	2 ⁰ 20	12 ⁰ 10	14 ⁰ 11	10 ⁰ 38	9 ⁰ 0	17 ⁰ 7	22 ⁰ 27	S 27
M28	16 21 13	6 ⁰ 23'46	19 ⁰ 25	16 ⁰ 21	29 ⁰ 31	18 ⁰ 14	2 ⁰ 10	7 ⁰ 1	2 ⁰ 24	12 ⁰ 11	14 ⁰ 12	10 ⁰ 32	8 ⁰ 57	17 ⁰ 14	22 ⁰ 29	M28
T 29	16 25 10	7 ⁰ 21'17	1 ¹¹ 17	18 ⁰ 1	0 ⁰ 44	18 ⁰ 59	2 ⁰ 9	6 ⁰ 57	2 ⁰ 27	12 ⁰ 13	14 ⁰ 13	10 ⁰ 24	8 ⁰ 54	17 ⁰ 21	22 ⁰ 30	T 29
W30	16 29 7	8 ⁰ 18'46	13 ⁰ 13	19 ⁰ 45	1 ⁰ 57	19 ⁰ 44	2 ⁰ 7	6 ⁰ 54	2 ⁰ 30	12 ⁰ 14	14 ⁰ 15	10 ⁰ 14	8 ⁰ 51	17 ⁰ 27	22 ⁰ 32	W30
T 31	16 33 3	9 ⁰ II16'14	25 ⁰ 17	21 ⁰ 830	3 ⁰ 510	20 ⁰ Y29	2 ⁰ 22	6 ¹¹ 50	2 ⁰ 34	12 ⁰ Y16	14 ⁰ 816	10 ⁰ 23	8 ⁰ 248	17 ¹¹ 34	22 ⁰ Y33	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	14n56	15s 5	3n25	5n 6	2s11	19n30	0n 6	2s 7	1s18	20s 4	0s16	11s57	2n40	23n42	0n15	3n 7	1s30	1n18	15s18	4s37	4s 7	13s23	0n36	4n19							
W 2	15 15	16 56	4 9	5 4	2 21	19 49	0 9	1 49	1 18	20 4	0 17	11 56	2 40	23 42	0 15	3 8	1 30	1 19	15 18	4 35	4 6	13 24	0 37	4 19							
T 3	15 32	18 3	4 43	5 4	2 30	20 8	0 11	1 30	1 18	20 3	0 17	11 55	2 40	23 42	0 15	3 9	1 30	1 19	15 18	4 33	4 4	13 25	0 38	4 19							
F 4	15 50	18 23	5 4	5 6	2 38	20 26	0 14	1 12	1 18	20 2	0 17	11 53	2 40	23 42	0 15	3 10	1 30	1 20	15 18	4 31	4 3	13 26	0 40	4 20							
S 5	16 7	17 52	5 12	5 11	2 45	20 44	0 16	0 54	1 18	20 2	0 17	11 52	2 39	23 42	0 15	3 10	1 30	1 20	15 17	4 29	4 2	13 28	0 41	4 20							
S 6	16 24	16 30	5 6	5 18	2 52	21 1	0 19	0 35	1 18	20 1	0 17	11 50	2 39	23 42	0 15	3 11	1 30	1 20	15 17	4 28	4 1	13 29	0 42	4 20							
M 7	16 41	14 19	4 45	5 27	2 58	21 18	0 22	0 17	1 18	20 1	0 17	11 49	2 39	23 42	0 15	3 12	1 30	1 21	15 17	4 27	3 59	13 30	0 43	4 20							
T 8	16 58	11 24	4 9	5 39	3 2	21 34	0 24	0n 1	1 18	20 1	0 18	11 48	2 39	23 42	0 15	3 13	1 30	1 21	15 17	4 27	3 58	13 31	0 44	4 20							
W 9	17 14	7 48	3 20	5 52	3 6	21 49	0 27	0 20	1 18	20 0	0 18	11 46	2 39	23 42	0 15	3 13	1 30	1 22	15 17	4 27	3 57	13 32	0 45	4 20							
T 10	17 30	3 41	2 17	6 7	3 10	22 4	0 29	0 38	1 18	20 0	0 18	11 45	2 39	23 42	0 15	3 14	1 30	1 22	15 17	4 28	3 56	13 34	0 46	4 20							
F 11	17 46	0n45	1 4	6 24	3 12	22 18	0 32	0 56	1 18	20 0	0 18	11 44	2 39	23 42	0 15	3 15	1 30	1 22	15 17	4 28	3 54	13 35	0 47	4 20							
S 12	18 1	5 18	0s15	6 43	3 14	22 32	0 34	1 14	1 17	20 0	0 18	11 42	2 39	23 42	0 15	3 15	1 30	1 23	15 17	4 28	3 53	13 36	0 48	4 21							
S 13	18 16	9 37	1 34	7 3	3 15	22 45	0 37	1 33	1 17	19 59	0 19	11 41	2 39	23 42	0 15	3 16	1 30	1 23	15 17	4 28	3 52	13 37	0 49	4 21							
M14	18 31	13 23	2 48	7 25	3 15	22 57	0 39	1 51	1 17	19 59	0 19	11 40	2 39	23 42	0 15	3 17	1 31	1 23	15 18	4 27	3 51	13 39	0 50	4 21							
T 15	18 46	16 15	3 51	7 49	3 15	23 8	0 41	2 9	1 17	19 59	0 19	11 39	2 39	23 42	0 15	3 17	1 31	1 24	15 18	4 25	3 49	13 40	0 51	4 21							
W16	19 0	17 58	4 37	8 14	3 14	23 19	0 44	2 27	1 17	19 59	0 19	11 37	2 39	23 42	0 15	3 18	1 31	1 24	15 18	4 22	3 48	13 41	0 52	4 21							
T 17	19 14	18 24	5 3	8 40	3 12	23 30	0 46	2 45	1 17	19 59	0 19	11 36	2 38	23 42	0 15	3 19	1 31	1 24	15 18	4 20	3 47	13 42	0 53	4 21							
F 18	19 27	17 37	5 9	9 8	3 10	23 39	0 49	3 3	1 17	19 59	0 19	11 35	2 38	23 42	0 15	3 19	1 31	1 25	15 18	4 17	3 46	13 43	0 54	4 22							
S 19	19 40	15 45	4 55	9 36	3 7	23 48	0 51	3 21	1 17	19 59	0 20	11 34	2 38	23 42	0 15	3 20	1 31	1 25	15 18	4 15	3 44	13 45	0 55	4 22							
S 20	19 53	13 4	4 25	10 6	3 3	23 57	0 53	3 39	1 16	19 59	0 20	11 32	2 38	23 42	0 15	3 21	1 31	1 25	15 18	4 14	3 43	13 46	0 56	4 22							
M21	20 6	9 47	3 42	10 37	2 59	24 4	0 56	3 57	1 16	20 0	0 20	11 31	2 38	23 42	0 15	3 21	1 31	1 26	15 18	4 13	3 42	13 47	0 57	4 22							
T 22	20 18	6 9	2 50	11 9	2 54	24 11	0 58	4 14	1 16	20 0	0 20	11 30	2 38	23 42	0 15	3 22	1 31	1 26	15 18	4 14	3 41	13 48	0 58	4 22							
W23	20 30	2 20	1 50	11 42	2 49	24 18	1 0	4 32	1 16	20 0	0 20	11 29	2 38	23 42	0 15	3 22	1 31	1 26	15 18	4 14	3 39	13 49	0 59	4 22							
T 24	20 41	1s31	0 47	12 15	2 43	24 23	1 2	4 50	1 16	20 0	0 21	11 28	2 38	23 42	0 15	3 23	1 31	1 27	15 18	4 14	3 38	13 51	0 59	4 22							
F 25	20 52	5 14	0n17	12 50	2 36	24 28	1 5	5 8	1 16	20 1	0 21	11 27	2 37	23 42	0 15	3 24	1 31	1 27	15 18	4 14	3 37	13 52	1 0	4 23							
S 26	21 3	8 44	1 20	13 24	2 29	24 32	1 7	5 25	1 15	20 1	0 21	11 26	2 37	23 41	0 15	3 24	1 31	1 27	15 18	4 14	3 36	13 53	1 1	4 23							
S 27	21 13	11 51	2 19	14 0	2 22	24 35	1 9	5 43	1 15	20 2	0 21	11 25	2 37	23 41	0 15	3 25	1 31	1 27	15 18	4 13	3 34	13 54	1 2	4 23							
M28	21 23	14 30	3 12	14 36	2 14	24 38	1 11	6 0	1 15	20 2	0 21	11 24	2 37	23 41	0 15	3 25	1 31	1 28	15 18	4 10	3 33	13 55	1 3	4 23							
T 29	21 33	16 34	3 57	15 12	2 6	24 40	1 13	6 17	1 15	20 3	0 21	11 22	2 37	23 41	0 15	3 26	1 31	1 28	15 18	4 7	3 32	13 57	1 3	4 23							
W30	21 42	17 55	4 31	15 49	1 57	24 41	1 15	6 35	1 14	20 3	0 22	11 22	2 37	23 41	0 15	3 26	1 31	1 28	15 19	4 7	3 31	13 58	1 4	4 24							
T 31	21n51	18s28	4n54	16n25	1s48	24n42	1n17	6n52	1s14	20s 4	0s22	11s21	2n36	23n41	0n15	3n27	1s31	1n28	15s19	3s59	3s29	13s59	1n 5	4n24							

ASTRODIENST EPHEMERIS for the year 1866
geocentric

JUNE 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	16 37 0	10II13'41	7♂28	23♂18	4♂22	21♂14	2°R 3	6°R47	2♂37	12♂17	14♂17	9°R52	8♂45	17♂41	22♂35	F 1
S 2	16 40 56	11°11'08	19°48	25° 8	5°35	21°59	2♂ 1	6♂44	2°41	12°19	14°19	9♂42	8°41	17°47	22°36	S 2
S 3	16 44 53	12° 8'33	2♂19	27° 1	6°48	22°44	1°59	6°40	2°44	12°20	14°20	9°34	8°38	17°54	22°37	S 3
M 4	16 48 49	13° 5'58	15° 2	28°56	8° 1	23°28	1°56	6°37	2°47	12°21	14°21	9°29	8°35	18° 1	22°38	M 4
T 5	16 52 46	14° 3'22	28° 0	0II53	9°13	24°13	1°53	6°34	2°51	12°23	14°22	9°25	8°32	18° 7	22°40	T 5
W 6	16 56 42	15° 0'46	11♂15	2°52	10°26	24°58	1°50	6°31	2°54	12°24	14°23	9°D24	8°29	18°14	22°41	W 6
T 7	17 0 39	15°58'09	24°50	4°54	11°39	25°42	1°47	6°28	2°58	12°25	14°25	9°24	8°25	18°21	22°42	T 7
F 8	17 4 36	16°55'31	8♂47	6°57	12°51	26°27	1°44	6°25	3° 1	12°26	14°26	9°R25	8°22	18°27	22°43	F 8
S 9	17 8 32	17°52'53	23° 6	9° 2	14° 4	27°12	1°40	6°22	3° 5	12°27	14°27	9°24	8°19	18°34	22°44	S 9
S 10	17 12 29	18°50'14	7♂45	11° 9	15°16	27°56	1°37	6°20	3° 8	12°29	14°28	9°21	8°16	18°41	22°45	S 10
M11	17 16 25	19°47'36	22°40	13°17	16°29	28°40	1°33	6°17	3°12	12°30	14°29	9°16	8°13	18°47	22°45	M11
T 12	17 20 22	20°44'56	7II44	15°26	17°41	29°25	1°29	6°14	3°15	12°31	14°30	9° 9	8°10	18°54	22°46	T 12
W13	17 24 18	21°42'16	22°48	17°37	18°54	0♂ 9	1°25	6°12	3°19	12°32	14°31	8°59	8° 6	19° 1	22°47	W13
T 14	17 28 15	22°39'36	7♂42	19°48	20° 6	0°53	1°20	6° 9	3°23	12°33	14°33	8°49	8° 3	19° 7	22°48	T 14
F 15	17 32 11	23°36'54	22°17	21°59	21°18	1°37	1°16	6° 7	3°26	12°34	14°34	8°39	8° 0	19°14	22°48	F 15
S 16	17 36 8	24°34'12	6♂26	24°11	22°31	2°22	1°11	6° 5	3°30	12°35	14°35	8°30	7°57	19°21	22°49	S 16
S 17	17 40 5	25°31'29	20° 7	26°23	23°43	3° 6	1° 6	6° 3	3°33	12°36	14°36	8°23	7°54	19°27	22°49	S 17
M18	17 44 1	26°28'46	3♂19	28°35	24°55	3°49	1° 1	6° 0	3°37	12°37	14°37	8°19	7°51	19°34	22°50	M18
T 19	17 47 58	27°26'01	16° 6	0♂45	26° 8	4°33	0°56	5°58	3°40	12°38	14°38	8°18	7°47	19°41	22°50	T 19
W20	17 51 54	28°23'16	28°30	2°55	27°20	5°17	0°51	5°57	3°44	12°39	14°39	8°D17	7°44	19°48	22°50	W20
T 21	17 55 51	29°20'30	10♂38	5° 4	28°32	6° 1	0°46	5°55	3°48	12°40	14°40	8°R17	7°41	19°54	22°51	T 21
F 22	17 59 47	0♂17'44	22°34	7°12	29°44	6°45	0°40	5°53	3°51	12°40	14°41	8°17	7°38	20° 1	22°51	F 22
S 23	18 3 44	1°14'57	4♂24	9°18	0♂56	7°28	0°34	5°51	3°55	12°41	14°42	8°14	7°35	20° 8	22°51	S 23
S 24	18 7 40	2°12'09	16°13	11°23	2° 8	8°12	0°28	5°50	3°58	12°42	14°43	8°10	7°31	20°14	22°51	S 24
M25	18 11 37	3° 9'21	28° 4	13°26	3°20	8°55	0°23	5°48	4° 2	12°43	14°44	8° 2	7°28	20°21	22°51	M25
T 26	18 15 34	4° 6'33	10♂ 0	15°27	4°32	9°39	0°16	5°47	4° 6	12°43	14°45	7°52	7°25	20°28	22°R51	T 26
W27	18 19 30	5° 3'44	22° 5	17°26	5°44	10°22	0°10	5°46	4° 9	12°44	14°46	7°40	7°22	20°34	22°51	W27
T 28	18 23 27	6° 0'56	4♂19	19°23	6°56	11° 5	0° 4	5°45	4°13	12°44	14°47	7°27	7°19	20°41	22°51	T 28
F 29	18 27 23	6°58'06	16°43	21°19	8° 8	11°48	29♂57	5°44	4°16	12°45	14°48	7°14	7°16	20°48	22°51	F 29
S 30	18 31 20	7♂55'17	29♂18	23♂12	9♂19	12♂32	29♂51	5♂43	4♂20	12♂46	14♂49	7♂ 2	7♂12	20♂54	22♂51	S 30

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
F 1	22n 0	18s11	5n 4	17n 2	1s38	24n41	1n19	7n 9	1s14	20s 4	0s22	11s20	2n36	23n41	0n15	3n27
S 2	22 8	17 3	4 59	17 38	1 28	24 40	1 20	7 26	1 14	20 5	0 22	11 19	2 36	23 41	0 15	3 28
S 3	22 16	15 6	4 41	18 14	1 18	24 39	1 22	7 43	1 13	20 6	0 22	11 18	2 36	23 41	0 15	3 28
M 4	22 23	12 23	4 8	18 50	1 7	24 36	1 24	8 0	1 13	20 7	0 23	11 17	2 36	23 41	0 15	3 29
T 5	22 30	9 1	3 22	19 25	0 57	24 33	1 26	8 16	1 13	20 7	0 23	11 16	2 35	23 41	0 15	3 29
W 6	22 37	5 8	2 24	20 0	0 46	24 29	1 27	8 33	1 12	20 8	0 23	11 15	2 35	23 41	0 15	3 30
T 7	22 43	0 53	1 17	20 33	0 35	24 25	1 29	8 49	1 12	20 9	0 23	11 15	2 35	23 41	0 15	3 30
F 8	22 49	3n32	0 3	21 5	0 24	24 20	1 30	9 6	1 12	20 10	0 23	11 14	2 35	23 41	0 15	3 31
S 9	22 54	7 52	1s12	21 36	0 13	24 14	1 32	9 22	1 11	20 11	0 24	11 13	2 35	23 41	0 15	3 31
S 10	22 59	11 49	2 25	22 5	0 2	24 7	1 33	9 38	1 11	20 12	0 24	11 12	2 34	23 40	0 15	3 31
M11	23 4	15 5	3 28	22 33	0n 9	24 0	1 34	9 55	1 11	20 13	0 24	11 12	2 34	23 40	0 15	3 32
T 12	23 8	17 22	4 18	22 58	0 19	23 52	1 36	10 11	1 10	20 14	0 24	11 11	2 34	23 40	0 15	3 32
W13	23 12	18 26	4 50	23 22	0 29	23 43	1 37	10 26	1 10	20 15	0 24	11 10	2 34	23 40	0 16	3 33
T 14	23 15	18 12	5 2	23 43	0 39	23 34	1 38	10 42	1 9	20 16	0 25	11 10	2 34	23 40	0 16	3 33
F 15	23 18	16 47	4 54	24 1	0 49	23 24	1 39	10 58	1 9	20 18	0 25	11 9	2 33	23 40	0 16	3 33
S 16	23 21	14 22	4 27	24 17	0 58	23 13	1 40	11 13	1 9	20 19	0 25	11 9	2 33	23 40	0 16	3 34
S 17	23 23	11 12	3 46	24 31	1 6	23 2	1 41	11 29	1 8	20 20	0 25	11 8	2 33	23 40	0 16	3 34
M18	23 24	7 35	2 54	24 41	1 14	22 50	1 42	11 44	1 8	20 21	0 25	11 8	2 33	23 40	0 16	3 34
T 19	23 26	3 43	1 55	24 49	1 22	22 37	1 42	11 59	1 7	20 23	0 25	11 7	2 32	23 40	0 16	3 35
W20	23 27	0s12	0 52	24 53	1 28	22 24	1 43	12 14	1 7	20 24	0 26	11 7	2 32	23 40	0 16	3 35
T 21	23 27	4 1	0n12	24 55	1 34	22 10	1 44	12 29	1 7	20 25	0 26	11 7	2 32	23 40	0 16	3 35
F 22	23 27	7 38	1 15	24 54	1 39	21 55	1 44	12 44	1 6	20 27	0 26	11 6	2 32	23 39	0 16	3 35
S 23	23 27	10 54	2 14	24 51	1 44	21 40	1 45	12 59	1 6	20 28	0 26	11 6	2 31	23 39	0 16	3 36
S 24	23 26	13 43	3 6	24 45	1 47	21 24	1 45	13 13	1 5	20 29	0 26	11 6	2 31	23 39	0 16	3 36
M25	23 25	15 59	3 51	24 36	1 50	21 8	1 46	13 28	1 5	20 31	0 27	11 5	2 31	23 39	0 16	3 36
T 26	23 23	17 35	4 26	24 25	1 52	20 51	1 46	13 42	1 4	20 32	0 27	11 5	2 31	23 39	0 16	3 36
W27	23 21	18 24	4 49	24 12	1 54	20 34	1 46	13 56	1 4	20 34	0 27	11 5	2 30	23 39	0 16	3 37
T 28	23 19	18 5	5 0	23 57	1 55	20 16	1 46	14 10	1 3	20 35	0 27	11 5	2 30	23 39	0 16	3 37
F 29	23 16	17 31	4 56	23 39	1 55	19 57	1 46	14 24	1 3	20 37	0 27	11 5	2 30	23 39	0 16	3 37
S 30	23n13	15s46	4n38	23n20	1n54	19n38	1n46	14n37	1s 2	20s39	0s27	11s 5	2n30	23n39	0n16	3n37

Julian Day Number = 2402753.5, Delta T = 6.89 sec
Ecliptic obliquity = 23°27'14, Nutation = 0°00'02, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°52'29, Lahiri = 21°59'30

ASTRODIENST EPHEMERIS for the year 1866

geocentric

JULY 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 16	8°52'28	12°4 4	25°3 3	10°12'31	13°8'15	29°R44	5°R42	4°52'24	12°Y46	14°8'49	6°R52	7°5 9	21°M 1	22°R51	S 1
M 2	18 39 13	9°49'39	25° 2	26°52	11°43	13°58	29°37	5°M41	4°27	12°47	14°50	6°44	7° 6	21° 8	22°K50	M 2
T 3	18 43 9	10°46'50	8°K11	28°40	12°54	14°41	29°31	5°40	4°31	12°47	14°51	6°40	7° 3	21°14	22°50	T 3
W 4	18 47 6	11°44'01	21°33	0°N25	14° 6	15°23	29°24	5°40	4°34	12°48	14°52	6°38	7° 0	21°21	22°50	W 4
T 5	18 51 3	12°41'13	5°Y 9	2° 8	15°18	16° 6	29°17	5°39	4°38	12°48	14°53	6°37	6°57	21°28	22°49	T 5
F 6	18 54 59	13°38'25	19° 1	3°49	16°29	16°49	29° 9	5°39	4°42	12°48	14°54	6°37	6°53	21°34	22°49	F 6
S 7	18 58 56	14°35'37	3°8 9	5°27	17°40	17°31	29° 2	5°38	4°45	12°49	14°54	6°36	6°50	21°41	22°48	S 7
S 8	19 2 52	15°32'50	17°32	7° 4	18°52	18°14	28°55	5°38	4°49	12°49	14°55	6°34	6°47	21°48	22°48	S 8
M 9	19 6 49	16°30'04	2°II 8	8°39	20° 3	18°56	28°48	5°38	4°52	12°49	14°56	6°28	6°44	21°55	22°47	M 9
T 10	19 10 45	17°27'18	16°51	10°12	21°15	19°39	28°40	5°D38	4°56	12°49	14°57	6°20	6°41	22° 1	22°46	T 10
W11	19 14 42	18°24'32	1°535	11°42	22°26	20°21	28°33	5°38	4°59	12°50	14°57	6°11	6°37	22° 8	22°45	W11
T 12	19 18 38	19°21'46	16°13	13°11	23°37	21° 3	28°25	5°38	5° 3	12°50	14°58	6° 0	6°34	22°15	22°44	T 12
F 13	19 22 35	20°19'01	0°N35	14°37	24°48	21°45	28°18	5°39	5° 6	12°50	14°59	5°49	6°31	22°21	22°44	F 13
S 14	19 26 32	21°16'16	14°37	16° 1	25°59	22°27	28°10	5°39	5°10	12°50	14°59	5°40	6°28	22°28	22°43	S 14
S 15	19 30 28	22°13'32	28°15	17°23	27°10	23° 9	28° 2	5°40	5°13	12°50	15° 0	5°33	6°25	22°35	22°42	S 15
M16	19 34 25	23°10'47	11°M26	18°43	28°21	23°51	27°55	5°40	5°17	12°R50	15° 1	5°28	6°22	22°41	22°41	M16
T 17	19 38 21	24° 8'03	24°13	20° 0	29°32	24°33	27°47	5°41	5°20	12°50	15° 1	5°26	6°18	22°48	22°40	T 17
W18	19 42 18	25° 5'19	6°A39	21°15	0°M43	25°14	27°39	5°42	5°24	12°50	15° 2	5°D25	6°15	22°55	22°38	W18
T 19	19 46 14	26° 2'35	18°49	22°28	1°54	25°56	27°31	5°43	5°27	12°50	15° 2	5°26	6°12	23° 1	22°37	T 19
F 20	19 50 11	26°59'51	0°M46	23°38	3° 5	26°37	27°24	5°44	5°31	12°50	15° 3	5°R26	6° 9	23° 8	22°36	F 20
S 21	19 54 7	27°57'08	12°38	24°46	4°15	27°19	27°16	5°45	5°34	12°50	15° 3	5°25	6° 6	23°15	22°35	S 21
S 22	19 58 4	28°54'25	24°28	25°51	5°26	28° 0	27° 8	5°46	5°38	12°50	15° 4	5°22	6° 3	23°21	22°33	S 22
M23	20 2 1	29°51'43	6°A22	26°53	6°36	28°41	27° 0	5°47	5°41	12°49	15° 4	5°16	5°59	23°28	22°32	M23
T 24	20 5 57	0°N49'01	18°23	27°53	7°47	29°22	26°53	5°48	5°44	12°49	15° 5	5° 8	5°56	23°35	22°30	T 24
W25	20 9 54	1°46'19	0°B35	28°49	8°57	0°II 3	26°45	5°50	5°48	12°49	15° 5	4°59	5°53	23°41	22°29	W25
T 26	20 13 50	2°43'38	13° 0	29°43	10° 8	0°44	26°37	5°52	5°51	12°49	15° 6	4°48	5°50	23°48	22°27	T 26
F 27	20 17 47	3°40'58	25°39	0°M33	11°18	1°25	26°30	5°53	5°54	12°48	15° 6	4°37	5°47	23°55	22°26	F 27
S 28	20 21 43	4°38'18	8°A32	1°20	12°28	2° 6	26°22	5°55	5°57	12°48	15° 6	4°27	5°43	24° 2	22°24	S 28
S 29	20 25 40	5°35'39	21°38	2° 4	13°38	2°46	26°14	5°57	6° 1	12°48	15° 7	4°19	5°40	24° 8	22°23	S 29
M30	20 29 36	6°33'01	4°B56	2°44	14°48	3°27	26° 7	5°59	6° 4	12°47	15° 7	4°14	5°37	24°15	22°21	M30
T 31	20 33 33	7°N30'24	18°K25	3°M20	15°M58	4°II 7	25°59	6°M 1	6°5 7	12°Y47	15°8 8	4°A10	5°A34	24°M22	22°K19	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
S 1	23n 9	13s15	4n 6	22n59	1n53	19n19	1n46	14n51	1s 2	20s40	0s28	11s 5	2n29	23n38	0n16	3n37	1s33	1n32	15s24	2s44	2s50	14s35	1n17	4n29					
M 2	23 5	10 2	3 21	22 36	1 51	18 59	1 46	15 4	1 1	20 42	0 28	11 5	2 29	23 38	0 16	3 37	1 33	1 32	15 24	2 41	2 49	14 36	1 17	4 30					
T 3	23 1	6 17	2 24	22 12	1 48	18 38	1 45	15 17	1 0	20 43	0 28	11 5	2 29	23 38	0 16	3 37	1 33	1 32	15 24	2 39	2 48	14 37	1 17	4 30					
W 4	22 56	2 9	1 19	21 47	1 45	18 17	1 45	15 30	1 0	20 45	0 28	11 5	2 29	23 38	0 16	3 38	1 33	1 32	15 25	2 38	2 47	14 38	1 17	4 30					
T 5	22 51	2n10	0 8	21 20	1 41	17 55	1 45	15 43	0 59	20 47	0 28	11 5	2 28	23 38	0 16	3 38	1 33	1 32	15 25	2 38	2 45	14 39	1 17	4 30					
F 6	22 45	6 27	1s 5	20 53	1 37	17 33	1 44	15 56	0 59	20 48	0 29	11 5	2 28	23 38	0 16	3 38	1 33	1 32	15 25	2 38	2 44	14 40	1 17	4 30					
S 7	22 39	10 27	2 15	20 24	1 32	17 11	1 43	16 8	0 58	20 50	0 29	11 5	2 28	23 38	0 16	3 38	1 33	1 32	15 25	2 37	2 43	14 41	1 17	4 31					
S 8	22 33	13 54	3 18	19 54	1 26	16 48	1 43	16 21	0 57	20 52	0 29	11 5	2 28	23 38	0 16	3 38	1 33	1 32	15 26	2 36	2 42	14 42	1 17	4 31					
M 9	22 26	16 31	4 9	19 24	1 20	16 25	1 42	16 33	0 57	20 53	0 29	11 6	2 27	23 38	0 16	3 38	1 33	1 32	15 26	2 34	2 40	14 43	1 17	4 31					
T 10	22 19	18 5	4 44	18 53	1 14	16 1	1 41	16 45	0 56	20 55	0 29	11 6	2 27	23 37	0 16	3 38	1 33	1 32	15 26	2 31	2 39	14 44	1 17	4 31					
W11	22 11	18 26	5 0	18 21	1 7	15 37	1 40	16 57	0 56	20 57	0 29	11 6	2 27	23 37	0 16	3 38	1 34	1 32	15 26	2 27	2 38	14 46	1 17	4 31					
T 12	22 3	17 34	4 57	17 49	0 59	15 13	1 39	17 9	0 55	20 58	0 30	11 6	2 26	23 37	0 16	3 38	1 34	1 32	15 27	2 23	2 37	14 47	1 16	4 31					
F 13	21 55	15 35	4 34	17 17	0 51	14 48	1 38	17 20	0 54	21 0	0 30	11 7	2 26	23 37	0 16	3 38	1 34	1 32	15 27	2 19	2 35	14 48	1 16	4 32					
S 14	21 46	12 42	3 55	16 44	0 43	14 22	1 36	17 32	0 54	21 2	0 30	11 7	2 26	23 37	0 16	3 38	1 34	1 32	15 27	2 15	2 34	14 49	1 16	4 32					
S 15	21 37	9 13	3 4	16 11	0 34	13 57	1 35	17 43	0 53	21 3	0 30	11 8	2 26	23 37	0 16	3 38	1 34	1 32	15 27	2 12	2 33	14 50	1 16	4 32					
M16	21 28	5 22	2 4	15 38	0 25	13 31	1 34	17 54	0 52	21 5	0 30	11 8	2 25	23 37	0 16	3 38	1 34	1 32	15 28	2 10	2 32	14 51	1 16	4 32					
T 17	21 18	1 23	0 59	15 4	0 16	13 5	1 32	18 5	0 52	21 7	0 30	11 8	2 25	23 37	0 16	3 38	1 34	1 32	15 28	2 10	2 30	14 52	1 15	4 32					
W18	21 8	2s33	0n 7	14 31	0 6	12 38	1 30	18 16	0 51	21 8	0 30	11 9	2 25	23 36	0 16	3 38	1 34	1 32	15 28	2 9	2 29	14 53	1 15	4 32					
T 19	20 57	6 17	1 11	13 58	0s 4	12 11	1 29	18 26	0 50	21 10	0 31	11 10	2 25	23 36	0 16	3 38	1 34	1 32	15 29	2 9	2 28	14 54	1 15	4 33					
F 20	20 46	9 42	2 11	13 25	0 15	11 44	1 27	18 37	0 50	21 12	0 31	11 10	2 24	23 36	0 16	3 38	1 34	1 31	15 29	2 9	2 27	14 55	1 14	4 33					
S 21	20 35	12 42	3 5	12 52	0 26	11 17	1 25	18 47	0 49	21 13	0 31	11 11	2 24	23 36	0 16	3 38	1 34	1 31	15 29	2 9	2 25	14 56	1 14	4 33					
S 22	20 23	15 10	3 50	12 20	0 37	10 49	1 23	18 57	0 48	21 15	0 31	11 11	2 24	23 36	0 16	3 37	1 34	1 31	15 29	2 8	2 24	14 57	1 14	4 33					
M23	20 12	17 1	4 26	11 48	0 48	10 21	1 21	19 6	0 47	21 17	0 31	11 12	2 24	23 36	0 16	3 37	1 34	1 31	15 30	2 6	2 23	14 58	1 13	4 33					
T 24	19 59	18 7	4 51	11 17	0 59	9 53	1 19	19 16	0 47	21 18	0 31	11 13	2 23	23 36	0 16	3 37	1 34	1 31	15 30	2 3	2 22	14 59	1 13	4 33					
W25	19 47	18 25	5 3	10 47	1 11	9 24	1 17	19 26	0 46	21 20	0 31	11 13	2 23	23 36	0 16	3 37	1 34	1 31	15 30	1 59	2 20	15 0	1 12	4 34					
T 26	19 34	17 50	5 0	10 17	1 23	8 56	1 15	19 35	0 45	21 22	0 31	11 14	2 23	23 35	0 16	3 37	1 34	1 31	15 31	1 55	2 19	15 2	1 12	4 34					
F 27	19 20	16 23	4 44	9 48	1 35	8 27	1 12	19 44	0 44	21 23	0 32	11 15	2 22	23 35	0 16	3 37	1 34	1 30	15 31	1 50	2 18	15 3	1 11	4 34					
S 28	19 7	14 5	4 12	9 20	1 48	7 58	1 10	19 53	0 44	21 25	0 32	11 16	2 22	23 35	0 16	3 36	1 34	1 30	15 31	1 46	2 17	15 4	1 11	4 34					
S29	18 53	11 2	3 27	8 53	2 0	7 28	1 7	20 2	0 43	21 26	0 32	11 17	2 22	23 35	0 16	3 36	1 35	1 30	15 31	1 43	2 15	15 5	1 10	4 34					
M30	18 39	7 23	2 30	8 27	2 12	6 59	1 5	20 10	0 42	21 28	0 32	11 18	2 22	23 35	0 16	3 36	1 35	1 30	15 32	1 41	2 14	15 6	1 10	4 34					
T 31	18n24	3s18	1n23	8n 2	2s25	6n29	1n 2	20n18	0s41	21s29	0s32	11s19	2n21	23n35	0n16	3n36	1s35	1n30	15s32	1s40	2s13	15s 7	1n 9	4n34					

ASTRODIENST EPHEMERIS for the year 1866

geocentric

AUGUST 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	20 37 30	8♂2748	2♂ 4	3♂52	17♂ 8	4♂48	25♂R52	6♂ 3	6♂10	12♂R46	15♂ 8	4♂D 9	5♂31	24♂28	22♂R17	W 1
T 2	20 41 26	9°25'13	15°53	4°20	18°18	5°28	25♂45	6° 5	6°14	12♂Y46	15° 8	4♂10	5°28	24°35	22♂K16	T 2
F 3	20 45 23	10°22'40	29°50	4°43	19°28	6° 8	25°37	6° 7	6°17	12°45	15° 8	4°10	5°24	24°42	22°14	F 3
S 4	20 49 19	11°20'07	13♂56	5° 2	20°37	6°48	25°30	6°10	6°20	12°45	15° 9	4°R11	5°21	24°48	22°12	S 4
S 5	20 53 16	12°17'37	28° 9	5°16	21°47	7°28	25°23	6°12	6°23	12°44	15° 9	4°10	5°18	24°55	22°10	S 5
M 6	20 57 12	13°15'07	12♂27	5°26	22°56	8° 7	25°16	6°15	6°26	12°43	15° 9	4° 7	5°15	25° 2	22° 8	M 6
T 7	21 1 9	14°12'39	26°48	5°R30	24° 6	8°47	25° 9	6°18	6°29	12°43	15° 9	4° 1	5°12	25° 8	22° 6	T 7
W 8	21 5 5	15°10'12	11♂6	5°29	25°15	9°27	25° 2	6°20	6°32	12°42	15° 9	3°55	5° 9	25°15	22° 4	W 8
T 9	21 9 2	16° 7'46	25°18	5°22	26°24	10° 6	24°55	6°23	6°35	12°41	15°10	3°47	5° 5	25°22	22° 2	T 9
F 10	21 12 59	17° 5'22	9♂17	5°11	27°34	10°45	24°49	6°26	6°38	12°40	15°10	3°40	5° 2	25°29	21°59	F 10
S 11	21 16 55	18° 2'59	23° 0	4°53	28°43	11°25	24°42	6°29	6°41	12°40	15°10	3°33	4°59	25°35	21°57	S 11
S 12	21 20 52	19° 0'37	6♂24	4°30	29°52	12° 4	24°35	6°32	6°44	12°39	15°10	3°28	4°56	25°42	21°55	S 12
M13	21 24 48	19°58'16	19°27	4° 2	1♂ 0	12°43	24°29	6°35	6°47	12°38	15°10	3°25	4°53	25°49	21°53	M13
T 14	21 28 45	20°55'56	2♂10	3°29	2° 9	13°21	24°23	6°39	6°49	12°37	15°10	3°D25	4°49	25°55	21°50	T 14
W15	21 32 41	21°53'37	14°34	2°51	3°18	14° 0	24°17	6°42	6°52	12°36	15°R10	3°25	4°46	26° 2	21°48	W15
T 16	21 36 38	22°51'19	26°43	2° 9	4°27	14°39	24°11	6°46	6°55	12°35	15°10	3°26	4°43	26° 9	21°46	T 16
F 17	21 40 34	23°49'03	8♂42	1°23	5°35	15°17	24° 5	6°49	6°58	12°34	15°10	3°28	4°40	26°15	21°43	F 17
S 18	21 44 31	24°46'47	20°34	0°34	6°43	15°56	23°59	6°53	7° 1	12°33	15°10	3°R29	4°37	26°22	21°41	S 18
S 19	21 48 28	25°44'33	2♂26	29♂43	7°52	16°34	23°54	6°56	7° 3	12°32	15°10	3°29	4°34	26°29	21°39	S 19
M20	21 52 24	26°42'20	14°21	28°50	9° 0	17°12	23°48	7° 0	7° 6	12°31	15°10	3°27	4°30	26°35	21°36	M20
T 21	21 56 21	27°40'08	26°25	27°57	10° 8	17°50	23°43	7° 4	7° 8	12°30	15°10	3°24	4°27	26°42	21°34	T 21
W22	22 0 17	28°37'57	8♂42	27° 5	11°16	18°28	23°38	7° 8	7°11	12°29	15° 9	3°19	4°24	26°49	21°31	W22
T 23	22 4 14	29°35'47	21°14	26°15	12°23	19° 5	23°33	7°12	7°14	12°28	15° 9	3°14	4°21	26°56	21°28	T 23
F 24	22 8 10	0♂33'39	4♂ 3	25°27	13°31	19°43	23°28	7°16	7°16	12°27	15° 9	3° 9	4°18	27° 2	21°26	F 24
S 25	22 12 7	1°31'32	17°11	24°43	14°39	20°20	23°24	7°20	7°18	12°26	15° 9	3° 4	4°14	27° 9	21°23	S 25
S 26	22 16 3	2°29'27	0♂37	24° 5	15°46	20°57	23°19	7°25	7°21	12°25	15° 9	3° 0	4°11	27°16	21°21	S 26
M27	22 20 0	3°27'23	14°19	23°32	16°53	21°35	23°15	7°29	7°23	12°24	15° 8	2°57	4° 8	27°22	21°18	M27
T 28	22 23 57	4°25'20	28°13	23° 6	18° 0	22°12	23°11	7°33	7°26	12°22	15° 8	2°D56	4° 5	27°29	21°15	T 28
W29	22 27 53	5°23'20	12♂18	22°47	19° 7	22°48	23° 7	7°38	7°28	12°21	15° 8	2°56	4° 2	27°36	21°13	W29
T 30	22 31 50	6°21'21	26°29	22°35	20°14	23°25	23° 3	7°42	7°30	12°20	15° 8	2°57	3°59	27°42	21°10	T 30
F 31	22 35 46	7♂19'24	10♂43	22°D32	21♂21	24♂ 2	22♂59	7♂47	7♂32	12♂Y19	15♂ 7	2♂59	3♂55	27♂49	21♂ 7	F 31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	lat
W 1	18n10	1n 0	0n11	7n39	2s37	5n59	0n59	20n27	0s40	21s31	0s32	11s19	2n21	23n35	0n16	3n36
T 2	17 54	5 17	1s 3	7 18	2 50	5 29	0 56	20 35	0 40	21 32	0 32	11 20	2 21	23 34	0 16	3 35
F 3	17 39	9 20	2 13	6 58	3 2	4 59	0 53	20 42	0 39	21 34	0 32	11 21	2 21	23 34	0 16	3 35
S 4	17 23	12 54	3 17	6 40	3 14	4 29	0 50	20 50	0 38	21 35	0 33	11 22	2 20	23 34	0 16	3 35
S 5	17 7	15 43	4 9	6 24	3 25	3 59	0 47	20 57	0 37	21 37	0 33	11 24	2 20	23 34	0 16	3 35
M 6	16 51	17 35	4 46	6 10	3 37	3 29	0 44	21 5	0 36	21 38	0 33	11 25	2 20	23 34	0 16	3 34
T 7	16 35	18 20	5 5	5 58	3 48	2 58	0 41	21 12	0 35	21 39	0 33	11 26	2 20	23 34	0 16	3 34
W 8	16 18	17 56	5 5	5 49	3 58	2 28	0 37	21 19	0 35	21 41	0 33	11 27	2 19	23 34	0 16	3 34
T 9	16 1	16 24	4 46	5 42	4 8	1 57	0 34	21 25	0 34	21 42	0 33	11 28	2 19	23 34	0 16	3 33
F 10	15 43	13 55	4 10	5 38	4 16	1 26	0 30	21 32	0 33	21 43	0 33	11 29	2 19	23 33	0 16	3 33
S 11	15 26	10 42	3 21	5 37	4 24	0 56	0 27	21 38	0 32	21 45	0 33	11 30	2 19	23 33	0 16	3 33
S 12	15 8	6 59	2 21	5 39	4 31	0 25	0 23	21 44	0 31	21 46	0 33	11 32	2 18	23 33	0 16	3 32
M13	14 50	3 2	1 15	5 44	4 37	0s 6	0 20	21 50	0 30	21 47	0 33	11 33	2 18	23 33	0 16	3 32
T 14	14 32	0s58	0 7	5 52	4 41	0 37	0 16	21 56	0 29	21 48	0 33	11 34	2 18	23 33	0 16	3 31
W15	14 13	4 49	1n 0	6 3	4 44	1 8	0 12	22 2	0 28	21 49	0 33	11 36	2 18	23 33	0 16	3 31
T 16	13 54	8 24	2 3	6 16	4 45	1 38	0 8	22 7	0 27	21 50	0 34	11 37	2 17	23 33	0 16	3 31
F 17	13 35	11 34	3 0	6 33	4 45	2 9	0 4	22 12	0 26	21 52	0 34	11 38	2 17	23 33	0 16	3 30
S 18	13 16	14 14	3 49	6 52	4 42	2 40	0 0	22 17	0 25	21 53	0 34	11 40	2 17	23 32	0 16	3 30
S 19	12 57	16 18	4 27	7 14	4 38	3 11	0s 4	22 22	0 24	21 54	0 34	11 41	2 17	23 32	0 16	3 29
M20	12 37	17 40	4 55	7 38	4 32	3 41	0 8	22 27	0 23	21 55	0 34	11 43	2 16	23 32	0 16	3 29
T 21	12 17	18 15	5 9	8 4	4 24	4 12	0 12	22 31	0 22	21 56	0 34	11 44	2 16	23 32	0 16	3 29
W22	11 57	18 1	5 10	8 31	4 14	4 42	0 16	22 36	0 21	21 57	0 34	11 46	2 16	23 32	0 16	3 28
T 23	11 37	16 54	4 56	8 59	4 2	5 13	0 21	22 40	0 20	21 57	0 34	11 47	2 16	23 32	0 16	3 28
F 24	11 17	14 55	4 28	9 27	3 49	5 43	0 25	22 44	0 19	21 58	0 34	11 49	2 15	23 32	0 16	3 27
S 25	10 56	12 8	3 44	9 55	3 34	6 14	0 29	22 48	0 18	21 59	0 34	11 50	2 15	23 32	0 16	3 27
S 26	10 36	8 39	2 48	10 23	3 18	6 44	0 34	22 51	0 17	22 0	0 34	11 52	2 15	23 31	0 17	3 26
M27	10 15	4 38	1 40	10 50	3 1	7 14	0 38	22 55	0 16	22 1	0 34	11 53	2 15	23 31	0 17	3 26
T 28	9 54	0 19	0 26	11 15	2 44	7 44	0 43	22 58	0 15	22 2	0 34	11 55	2 15	23 31	0 17	3 25
W29	9 32	4n 5	0s51	11 38	2 25	8 13	0 47	23 1	0 14	22 2	0 34	11 57	2 14	23 31	0 17	3 25
T 30	9 11	8 16	2 6	12 0	2 7	8 43	0 52	23 4	0 13	22 3	0 34	11 58	2 14	23 31	0 17	3 24
F 31	8n50	11n59	3s13	12n18	1s48	9s12	0s56	23n 7	0s12	22s 4	0s34	12s 0	2n14	23n31	0n17	3n24

Julian Day Number = 2402814.5, Delta T = 6.70 sec

Ecliptic obliquity = 23°27'15", Nutation = 0°00'03", out-of-bounds declination in red

Ayanamsha: Fagan/Bradley = 22°52'38", Lahiri = 21°59'38"

ASTRODIENST EPHEMERIS for the year 1866
geocentric

SEPTEMBER 1866

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	22 39 43	8 ^h 17'29"	24 ^h 58'	22 ^h 38'	22 ^h 27'	24 ^h 38'	22 ^h 56'	7 ^h 52'	7 ^h 35'	12 ^h 17'	15 ^h 7'	3 ^h 0'	3 ^h 52'	27 ^h 56'	21 ^h 5'	S 1
S 2	22 43 39	9 ^h 15'36"	9 ^h 11'	22 ^h 52'	23 ^h 34'	25 ^h 14'	22 ^h 52'	7 ^h 56'	7 ^h 37'	12 ^h 16'	15 ^h 8'	3 ^h 0'	3 ^h 49'	28 ^h 2'	21 ^h 8'	S 2
M 3	22 47 36	10 ^h 13'46"	23 ^h 20'	23 ^h 14'	24 ^h 40'	25 ^h 50'	22 ^h 49'	8 ^h 1'	7 ^h 39'	12 ^h 15'	15 ^h 6'	3 ^h 0'	3 ^h 46'	28 ^h 9'	20 ^h 59'	M 3
T 4	22 51 32	11 ^h 11'57"	7 ^h 23'	23 ^h 45'	25 ^h 46'	26 ^h 26'	22 ^h 46'	8 ^h 6'	7 ^h 41'	12 ^h 13'	15 ^h 6'	2 ^h 58'	3 ^h 43'	28 ^h 16'	20 ^h 56'	T 4
W 5	22 55 29	12 ^h 10'10"	21 ^h 18'	24 ^h 25'	26 ^h 52'	27 ^h 2'	22 ^h 44'	8 ^h 11'	7 ^h 43'	12 ^h 12'	15 ^h 5'	2 ^h 56'	3 ^h 40'	28 ^h 23'	20 ^h 54'	W 5
T 6	22 59 25	13 ^h 8'25"	5 ^h 2'	25 ^h 12'	27 ^h 58'	27 ^h 38'	22 ^h 41'	8 ^h 16'	7 ^h 45'	12 ^h 10'	15 ^h 5'	2 ^h 53'	3 ^h 36'	28 ^h 29'	20 ^h 51'	T 6
F 7	23 3 22	14 ^h 6'42"	18 ^h 35'	26 ^h 8'	29 ^h 4'	28 ^h 13'	22 ^h 39'	8 ^h 21'	7 ^h 47'	12 ^h 9'	15 ^h 5'	2 ^h 50'	3 ^h 33'	28 ^h 36'	20 ^h 48'	F 7
S 8	23 7 19	15 ^h 5'01"	1 ^h 53'	27 ^h 10'	0 ^h 9'	28 ^h 48'	22 ^h 37'	8 ^h 26'	7 ^h 49'	12 ^h 8'	15 ^h 4'	2 ^h 48'	3 ^h 30'	28 ^h 43'	20 ^h 45'	S 8
S 9	23 11 15	16 ^h 3'22"	14 ^h 56'	28 ^h 19'	1 ^h 14'	29 ^h 24'	22 ^h 35'	8 ^h 32'	7 ^h 50'	12 ^h 6'	15 ^h 4'	2 ^h 46'	3 ^h 27'	28 ^h 49'	20 ^h 42'	S 9
M10	23 15 12	17 ^h 1'45"	27 ^h 44'	29 ^h 35'	2 ^h 19'	29 ^h 58'	22 ^h 33'	8 ^h 37'	7 ^h 52'	12 ^h 5'	15 ^h 3'	2 ^h 46'	3 ^h 24'	28 ^h 56'	20 ^h 40'	M10
T 11	23 19 8	18 ^h 0'09"	10 ^h 16'	0 ^h 56'	3 ^h 24'	0 ^h 33'	22 ^h 31'	8 ^h 42'	7 ^h 54'	12 ^h 3'	15 ^h 3'	2 ^h 46'	3 ^h 20'	29 ^h 3'	20 ^h 37'	T 11
W12	23 23 5	18 ^h 58'35"	22 ^h 34'	2 ^h 23'	4 ^h 29'	1 ^h 8'	22 ^h 30'	8 ^h 48'	7 ^h 56'	12 ^h 2'	15 ^h 2'	2 ^h 47'	3 ^h 17'	29 ^h 9'	20 ^h 34'	W12
T 13	23 27 1	19 ^h 57'03"	4 ^h 40'	3 ^h 54'	5 ^h 33'	1 ^h 42'	22 ^h 29'	8 ^h 53'	7 ^h 57'	12 ^h 0'	15 ^h 1'	2 ^h 48'	3 ^h 14'	29 ^h 16'	20 ^h 31'	T 13
F 14	23 30 58	20 ^h 55'33"	16 ^h 38'	5 ^h 30'	6 ^h 38'	2 ^h 16'	22 ^h 28'	8 ^h 59'	7 ^h 59'	11 ^h 59'	15 ^h 1'	2 ^h 49'	3 ^h 11'	29 ^h 23'	20 ^h 28'	F 14
S 15	23 34 54	21 ^h 54'04"	28 ^h 30'	7 ^h 8'	7 ^h 42'	2 ^h 50'	22 ^h 27'	9 ^h 4'	8 ^h 0'	11 ^h 57'	15 ^h 0'	2 ^h 50'	3 ^h 8'	29 ^h 30'	20 ^h 26'	S 15
S 16	23 38 51	22 ^h 52'37"	10 ^h 21'	8 ^h 50'	8 ^h 45'	3 ^h 24'	22 ^h 26'	9 ^h 10'	8 ^h 2'	11 ^h 56'	15 ^h 0'	2 ^h 51'	3 ^h 5'	29 ^h 36'	20 ^h 23'	S 16
M17	23 42 48	23 ^h 51'12"	22 ^h 16'	10 ^h 34'	9 ^h 49'	3 ^h 58'	22 ^h 26'	9 ^h 16'	8 ^h 3'	11 ^h 54'	14 ^h 59'	2 ^h 51'	3 ^h 1'	29 ^h 43'	20 ^h 20'	M17
T 18	23 46 44	24 ^h 49'48"	4 ^h 31'	12 ^h 20'	10 ^h 52'	4 ^h 31'	22 ^h 25'	9 ^h 22'	8 ^h 5'	11 ^h 52'	14 ^h 58'	2 ^h 51'	2 ^h 58'	29 ^h 50'	20 ^h 17'	T 18
W19	23 50 41	25 ^h 48'26"	16 ^h 35'	14 ^h 8'	11 ^h 55'	5 ^h 4'	22 ^h 25'	9 ^h 27'	8 ^h 6'	11 ^h 51'	14 ^h 58'	2 ^h 50'	2 ^h 55'	29 ^h 56'	20 ^h 14'	W19
T 20	23 54 37	26 ^h 47'06"	29 ^h 8'	15 ^h 57'	12 ^h 58'	5 ^h 37'	22 ^h 26'	9 ^h 33'	8 ^h 7'	11 ^h 49'	14 ^h 57'	2 ^h 50'	2 ^h 52'	0 ^h 7'3"	20 ^h 12'	T 20
F 21	23 58 34	27 ^h 45'47"	12 ^h 1'	17 ^h 46'	14 ^h 1'	6 ^h 10'	22 ^h 26'	9 ^h 39'	8 ^h 9'	11 ^h 48'	14 ^h 56'	2 ^h 49'	2 ^h 49'	0 ^h 10'	20 ^h 9'	F 21
S 22	0 2 30	28 ^h 44'30"	25 ^h 16'	19 ^h 36'	15 ^h 3'	6 ^h 43'	22 ^h 26'	9 ^h 45'	8 ^h 10'	11 ^h 46'	14 ^h 56'	2 ^h 48'	2 ^h 46'	0 ^h 16'	20 ^h 6'	S 22
S 23	0 6 27	29 ^h 43'15"	8 ^h 55'	21 ^h 27'	16 ^h 5'	7 ^h 15'	22 ^h 27'	9 ^h 51'	8 ^h 11'	11 ^h 44'	14 ^h 55'	2 ^h 48'	2 ^h 42'	0 ^h 23'	20 ^h 3'	S 23
M24	0 10 23	0 ^h 42'02"	22 ^h 55'	23 ^h 17'	17 ^h 7'	7 ^h 47'	22 ^h 28'	9 ^h 57'	8 ^h 12'	11 ^h 43'	14 ^h 54'	2 ^h 48'	2 ^h 39'	0 ^h 30'	20 ^h 1'	M24
T 25	0 14 20	1 ^h 40'51"	7 ^h 13'	25 ^h 7'	18 ^h 8'	8 ^h 19'	22 ^h 29'	10 ^h 3'	8 ^h 13'	11 ^h 41'	14 ^h 53'	2 ^h 48'	2 ^h 36'	0 ^h 37'	19 ^h 58'	T 25
W26	0 18 17	2 ^h 39'41"	21 ^h 44'	26 ^h 57'	19 ^h 9'	8 ^h 51'	22 ^h 30'	10 ^h 9'	8 ^h 14'	11 ^h 40'	14 ^h 53'	2 ^h 48'	2 ^h 33'	0 ^h 43'	19 ^h 55'	W26
T 27	0 22 13	3 ^h 38'34"	6 ^h 23'	28 ^h 47'	20 ^h 10'	9 ^h 23'	22 ^h 32'	10 ^h 16'	8 ^h 15'	11 ^h 38'	14 ^h 52'	2 ^h 48'	2 ^h 30'	0 ^h 50'	19 ^h 52'	T 27
F 28	0 26 10	4 ^h 37'29"	21 ^h 3'	0 ^h 36'	21 ^h 11'	9 ^h 54'	22 ^h 34'	10 ^h 22'	8 ^h 16'	11 ^h 36'	14 ^h 51'	2 ^h 48'	2 ^h 26'	0 ^h 57'	19 ^h 50'	F 28
S 29	0 30 6	5 ^h 36'27"	5 ^h 38'	2 ^h 25'	22 ^h 11'	10 ^h 25'	22 ^h 36'	10 ^h 28'	8 ^h 17'	11 ^h 35'	14 ^h 50'	2 ^h 48'	2 ^h 23'	1 ^h 3'	19 ^h 47'	S 29
S 30	0 34 3	6 ^h 35'27"	20 ^h 3'	4 ^h 12'	23 ^h 11'	10 ^h 56'	22 ^h 38'	10 ^h 35'	8 ^h 18'	11 ^h 33'	14 ^h 49'	2 ^h 47'	2 ^h 20'	1 ^h 10'	19 ^h 44'	S 30

Day	☉	☾		♀		♀		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂		♂	
-----	---	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--	---	--

ASTRODIENST EPHEMERIS for the year 1866
geocentric

OCTOBER 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	0 37 59	7♂34'29	4♂14	6♂ 0	24♂10	11♂26	22♂30	10♂41	8♂19	11♂31	14♂48	2♂47	2♂17	1♂17	19♂42	M 1
T 2	0 41 56	8°33'33	18°10	7°46	25° 9	11°57	22°42	10°47	8°19	11°30	14♂48	2♂47	2°14	1°23	19♂39	T 2
W 3	0 45 52	9°32'40	1♂50	9°32	26° 8	12°27	22°45	10°54	8°20	11°28	14°47	2°48	2°11	1°30	19°36	W 3
T 4	0 49 49	10°31'49	15°14	11°17	27° 6	12°57	22°48	11° 0	8°20	11°26	14°46	2°48	2° 7	1°37	19°34	T 4
F 5	0 53 45	11°31'00	28°22	13° 1	28° 4	13°26	22°51	11° 7	8°21	11°25	14°45	2°49	2° 4	1°44	19°31	F 5
S 6	0 57 42	12°30'14	11♂17	14°44	29° 1	13°55	22°54	11°14	8°21	11°23	14°44	2°50	2° 1	1°50	19°29	S 6
S 7	1 1 39	13°29'30	23°58	16°26	29°58	14°24	22°57	11°20	8°22	11°21	14°43	2°50	1°58	1°57	19°26	S 7
M 8	1 5 35	14°28'48	6♂28	18° 8	0♂55	14°53	23° 1	11°27	8°22	11°20	14°42	2°R50	1°55	2° 4	19°24	M 8
T 9	1 9 32	15°28'07	18°46	19°49	1°51	15°22	23° 5	11°34	8°23	11°18	14°41	2°50	1°51	2°10	19°21	T 9
W10	1 13 28	16°27'29	0♂55	21°29	2°47	15°50	23° 9	11°40	8°23	11°16	14°40	2°49	1°48	2°17	19°19	W10
T 11	1 17 25	17°26'53	12°55	23° 9	3°42	16°18	23°13	11°47	8°23	11°15	14°39	2°47	1°45	2°24	19°16	T 11
F 12	1 21 21	18°26'19	24°50	24°48	4°36	16°45	23°17	11°54	8°23	11°13	14°38	2°44	1°42	2°30	19°14	F 12
S 13	1 25 18	19°25'47	6♂41	26°26	5°30	17°12	23°22	12° 1	8°23	11°11	14°37	2°42	1°39	2°37	19°12	S 13
S 14	1 29 14	20°25'17	18°31	28° 3	6°24	17°39	23°26	12° 7	8°23	11°10	14°36	2°39	1°36	2°44	19° 9	S 14
M15	1 33 11	21°24'49	0♂25	29°40	7°16	18° 6	23°31	12°14	8°R23	11° 8	14°35	2°37	1°32	2°51	19° 7	M15
T 16	1 37 8	22°24'22	12°25	1♂16	8° 8	18°32	23°36	12°21	8°23	11° 6	14°34	2°36	1°29	2°57	19° 5	T 16
W17	1 41 4	23°23'57	24°38	2°51	9° 0	18°58	23°41	12°28	8°23	11° 5	14°33	2°D36	1°26	3° 4	19° 3	W17
T 18	1 45 1	24°23'34	7♂6	4°26	9°51	19°23	23°47	12°35	8°23	11° 3	14°32	2°36	1°23	3°11	19° 1	T 18
F 19	1 48 57	25°23'12	19°55	6° 0	10°41	19°49	23°52	12°42	8°23	11° 1	14°31	2°37	1°20	3°17	18°58	F 19
S 20	1 52 54	26°22'53	3♂8	7°34	11°30	20°13	23°58	12°49	8°23	11° 0	14°30	2°39	1°17	3°24	18°56	S 20
S 21	1 56 50	27°22'34	16°47	9° 7	12°19	20°38	24° 4	12°56	8°22	10°58	14°29	2°40	1°13	3°31	18°54	S 21
M22	2 0 47	28°22'18	0♂53	10°39	13° 7	21° 2	24°10	13° 3	8°22	10°57	14°28	2°R41	1°10	3°38	18°52	M22
T 23	2 4 43	29°22'04	15°24	12°11	13°53	21°26	24°16	13°10	8°21	10°55	14°27	2°41	1° 7	3°44	18°50	T 23
W24	2 8 40	0♂21'51	0♂15	13°42	14°39	21°49	24°22	13°17	8°21	10°54	14°26	2°39	1° 4	3°51	18°48	W24
T 25	2 12 37	1°21'41	15°17	15°13	15°25	22°12	24°29	13°24	8°20	10°52	14°25	2°36	1° 1	3°58	18°47	T 25
F 26	2 16 33	2°21'32	0♂23	16°43	16° 9	22°35	24°36	13°31	8°20	10°50	14°23	2°31	0°57	4° 4	18°45	F 26
S 27	2 20 30	3°21'26	15°23	18°13	16°52	22°57	24°42	13°38	8°19	10°49	14°22	2°27	0°54	4°11	18°43	S 27
S 28	2 24 26	4°21'22	0♂8	19°42	17°34	23°19	24°49	13°46	8°19	10°47	14°21	2°23	0°51	4°18	18°41	S 28
M29	2 28 23	5°21'20	14°32	21°11	18°15	23°40	24°57	13°53	8°18	10°46	14°20	2°20	0°48	4°25	18°39	M29
T 30	2 32 19	6°21'20	28°33	22°39	18°55	24° 1	25° 4	14° 0	8°17	10°44	14°19	2°18	0°45	4°31	18°38	T 30
W31	2 36 16	7♂21'22	12♂10	24♂6	19♂34	24♂22	25♂11	14♂7	8♂16	10♂43	14♂18	2°D18	0♂42	4♂38	18♂36	W31

Day	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
M 1	3s 0	18n 6	5s17	1s 6	1n24	22s 8	3s25	23n25	0n27	22s 7	0s35	13s 0	2n 9	23n29	0n17	3n 4
T 2	3 24	17 10	5 6	1 53	1 19	22 27	3 29	23 24	0 29	22 7	0 35	13 2	2 8	23 29	0 17	3 4
W 3	3 47	15 15	4 38	2 39	1 13	22 45	3 34	23 22	0 30	22 7	0 35	13 4	2 8	23 29	0 17	3 3
T 4	4 10	12 32	3 54	3 25	1 8	23 3	3 38	23 21	0 32	22 6	0 35	13 6	2 8	23 29	0 17	3 2
F 5	4 33	9 14	3 0	4 11	1 2	23 21	3 42	23 20	0 33	22 6	0 35	13 9	2 8	23 29	0 17	3 2
S 6	4 57	5 32	1 57	4 57	0 56	23 38	3 46	23 18	0 35	22 5	0 35	13 11	2 8	23 29	0 17	3 1
S 7	5 20	1 39	0 49	5 42	0 50	23 54	3 50	23 17	0 36	22 5	0 35	13 13	2 8	23 29	0 17	3 0
M 8	5 43	2s16	0n20	6 27	0 44	24 10	3 54	23 15	0 38	22 4	0 35	13 15	2 8	23 29	0 18	3 0
T 9	6 6	6 1	1 27	7 11	0 37	24 26	3 58	23 13	0 40	22 3	0 35	13 17	2 8	23 29	0 18	2 59
W10	6 28	9 28	2 29	7 55	0 31	24 41	4 2	23 12	0 41	22 3	0 35	13 19	2 7	23 29	0 18	2 59
T 11	6 51	12 29	3 24	8 38	0 24	24 55	4 6	23 10	0 43	22 2	0 35	13 22	2 7	23 29	0 18	2 58
F 12	7 14	14 57	4 9	9 20	0 17	25 9	4 9	23 8	0 44	22 1	0 35	13 24	2 7	23 29	0 18	2 57
S 13	7 36	16 47	4 44	10 2	0 11	25 23	4 13	23 7	0 46	22 0	0 35	13 26	2 7	23 29	0 18	2 57
S 14	7 59	17 53	5 6	10 44	0 4	25 36	4 16	23 5	0 48	22 0	0 35	13 28	2 7	23 29	0 18	2 56
M15	8 21	18 12	5 15	11 24	0s 3	25 48	4 19	23 3	0 49	21 59	0 35	13 30	2 7	23 29	0 18	2 55
T 16	8 44	17 43	5 11	12 4	0 10	26 0	4 23	23 1	0 51	21 58	0 35	13 32	2 7	23 29	0 18	2 55
W17	9 6	16 25	4 52	12 45	0 17	26 11	4 26	22 59	0 53	21 57	0 35	13 35	2 7	23 29	0 18	2 54
T 18	9 28	14 19	4 20	13 23	0 24	26 22	4 28	22 57	0 55	21 56	0 35	13 37	2 7	23 29	0 18	2 53
F 19	9 49	11 28	3 34	14 1	0 30	26 32	4 31	22 55	0 56	21 55	0 35	13 39	2 7	23 29	0 18	2 53
S 20	10 11	7 57	2 36	14 38	0 37	26 42	4 34	22 53	0 58	21 54	0 35	13 41	2 7	23 29	0 18	2 52
S 21	10 33	3 54	1 26	15 14	0 44	26 51	4 36	22 52	1 0	21 53	0 35	13 43	2 6	23 29	0 18	2 52
M22	10 54	0n30	0 10	15 50	0 51	26 59	4 39	22 50	1 2	21 52	0 35	13 45	2 6	23 29	0 18	2 51
T 23	11 15	5 0	1s 9	16 25	0 57	27 8	4 41	22 48	1 4	21 51	0 35	13 48	2 6	23 29	0 18	2 50
W24	11 36	9 18	2 26	16 59	1 4	27 15	4 43	22 46	1 6	21 50	0 35	13 50	2 6	23 29	0 18	2 50
T 25	11 57	13 2	3 33	17 32	1 10	27 22	4 44	22 44	1 8	21 49	0 35	13 52	2 6	23 29	0 18	2 49
F 26	12 18	15 55	4 25	18 4	1 17	27 28	4 46	22 42	1 9	21 48	0 35	13 54	2 6	23 29	0 18	2 49
S 27	12 39	17 42	4 59	18 35	1 23	27 34	4 47	22 40	1 11	21 46	0 35	13 56	2 6	23 29	0 18	2 48
S 28	12 59	18 15	5 12	19 6	1 29	27 40	4 49	22 39	1 13	21 45	0 35	13 58	2 6	23 30	0 18	2 47
M29	13 19	17 36	5 5	19 35	1 35	27 44	4 49	22 37	1 15	21 44	0 35	14 1	2 6	23 30	0 18	2 47
T 30	13 39	15 53	4 40	20 4	1 41	27 49	4 50	22 35	1 17	21 42	0 35	14 3	2 6	23 30	0 18	2 46
W31	13s59	13n19	4s 0	20s31	1s46	27s52	4s51	22n34	1n19	21s41	0s35	14s 5	2n 6	23n30	0n18	2n46

Julian Day Number = 2402875.5, Delta T = 6.50 sec
Ecliptic obliquity = 23°27'15, Nutation = 0°00'00, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°52'46, Lahiri = 21°59'47

ASTRODIENST EPHEMERIS for the year 1866
geocentric

NOVEMBER 1866

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	2 40 12	8♍21'27	25♏24	25♍33	20♌12	24♎42	25♎19	14♍14	8°R15	10°R42	14°R17	2♑19	0♑38	4♌45	18°R35	T 1
F 2	2 44 9	9°21'33	8♍19	26°59	20°48	25° 1	25°27	14°21	8♎14	10°Y40	14♎16	2°21	0°35	4°51	18♌33	F 2
S 3	2 48 6	10°21'42	20°56	28°25	21°24	25°20	25°34	14°29	8°13	10°39	14°15	2°22	0°32	4°58	18°32	S 3
S 4	2 52 2	11°21'53	3♑20	29°50	21°57	25°39	25°42	14°36	8°12	10°37	14°13	2°R23	0°29	5° 5	18°30	S 4
M 5	2 55 59	12°22'05	15°34	1♌14	22°30	25°57	25°51	14°43	8°11	10°36	14°12	2°22	0°26	5°11	18°29	M 5
T 6	2 59 55	13°22'20	27°39	2°37	23° 1	26°14	25°59	14°50	8°10	10°35	14°11	2°19	0°22	5°18	18°28	T 6
W 7	3 3 52	14°22'37	9♍38	4° 0	23°30	26°31	26° 7	14°57	8° 9	10°33	14°10	2°14	0°19	5°25	18°26	W 7
T 8	3 7 48	15°22'55	21°33	5°21	23°58	26°48	26°16	15° 5	8° 8	10°32	14° 9	2° 7	0°16	5°32	18°25	T 8
F 9	3 11 45	16°23'15	3♌25	6°42	24°24	27° 4	26°25	15°12	8° 6	10°31	14° 8	1°58	0°13	5°38	18°24	F 9
S 10	3 15 41	17°23'36	15°16	8° 1	24°49	27°19	26°34	15°19	8° 5	10°29	14° 7	1°49	0°10	5°45	18°23	S 10
S 11	3 19 38	18°24'00	27° 7	9°19	25°12	27°34	26°43	15°26	8° 4	10°28	14° 6	1°40	0° 7	5°52	18°22	S 11
M12	3 23 34	19°24'24	9♎2	10°36	25°33	27°48	26°52	15°33	8° 2	10°27	14° 4	1°32	0° 3	5°58	18°21	M12
T 13	3 27 31	20°24'51	21° 2	11°51	25°52	28° 2	27° 1	15°41	8° 1	10°26	14° 3	1°26	0° 0	6° 5	18°20	T 13
W14	3 31 28	21°25'18	3♌12	13° 4	26° 9	28°15	27°10	15°48	7°59	10°25	14° 2	1°22	29♍57	6°12	18°19	W14
T 15	3 35 24	22°25'47	15°36	14°16	26°24	28°27	27°20	15°55	7°58	10°23	14° 1	1°20	29°54	6°19	18°18	T 15
F 16	3 39 21	23°26'17	28°17	15°25	26°37	28°39	27°29	16° 2	7°56	10°22	14° 0	1°D19	29°51	6°25	18°17	F 16
S 17	3 43 17	24°26'49	11♌22	16°31	26°48	28°50	27°39	16° 9	7°54	10°21	13°59	1°20	29°48	6°32	18°16	S 17
S 18	3 47 14	25°27'21	24°52	17°35	26°56	29° 1	27°49	16°16	7°53	10°20	13°58	1°R21	29°44	6°39	18°16	S 18
M19	3 51 10	26°27'55	8°Y51	18°35	27° 2	29°11	27°59	16°23	7°51	10°19	13°57	1°21	29°41	6°45	18°15	M19
T 20	3 55 7	27°28'30	23°18	19°32	27° 6	29°20	28° 9	16°31	7°49	10°18	13°56	1°19	29°38	6°52	18°15	T 20
W21	3 59 3	28°29'07	8♎11	20°24	27°R 8	29°29	28°19	16°38	7°48	10°17	13°54	1°15	29°35	6°59	18°14	W21
T 22	4 3 0	29°29'44	23°23	21°11	27° 7	29°37	28°30	16°45	7°46	10°16	13°53	1° 8	29°32	7° 6	18°14	T 22
F 23	4 6 57	0♌30'24	8♍44	21°53	27° 4	29°44	28°40	16°52	7°44	10°15	13°52	0°59	29°28	7°12	18°13	F 23
S 24	4 10 53	1°31'04	24° 2	22°29	26°58	29°50	28°51	16°59	7°42	10°14	13°51	0°50	29°25	7°19	18°13	S 24
S 25	4 14 50	2°31'46	9♎6	22°58	26°50	29°56	29° 1	17° 6	7°40	10°13	13°50	0°41	29°22	7°26	18°13	S 25
M26	4 18 46	3°32'30	23°48	23°20	26°39	0♌1	29°12	17°13	7°38	10°13	13°49	0°33	29°19	7°32	18°12	M26
T 27	4 22 43	4°33'15	8♏2	23°33	26°26	0° 5	29°23	17°20	7°36	10°12	13°48	0°28	29°16	7°39	18°12	T 27
W28	4 26 39	5°34'02	21°46	23°R36	26°10	0° 9	29°34	17°27	7°34	10°11	13°47	0°25	29°13	7°46	18°12	W28
T 29	4 30 36	6°34'50	5♍2	23°30	25°52	0°12	29°45	17°34	7°32	10°10	13°46	0°D24	29° 9	7°53	18°D12	T 29
F 30	4 34 33	7♌35'39	17♍54	23♌13	25♌32	0♏14	29♎56	17♍41	7♎30	10°Y 9	13♎45	0♑24	29♍6	7♌59	18♌12	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	14s18	10n 6	3s 8	20s58	1s52	27s56	4s51	22n32	1n21	21s40	0s35	14s 7	2n 6	23n30	0n18	2n45	1s37	0n57	15s51	0s55	0s15	16s33	0s25	4n27	
F 2	14 37	6 29	2 7	21 23	1 57	27 58	4 51	22 31	1 24	21 38	0 35	14 9	2 6	23 30	0 18	2 45	1 37	0 57	15 51	0 56	0 14	16 33	0 26	4 27	
S 3	14 56	2 39	1 2	21 48	2 2	28 0	4 51	22 29	1 26	21 37	0 35	14 11	2 6	23 30	0 18	2 44	1 37	0 57	15 51	0 57	0 13	16 34	0 27	4 27	
S 4	15 15	1s15	0n 5	22 11	2 7	28 2	4 50	22 28	1 28	21 35	0 35	14 14	2 6	23 30	0 18	2 44	1 37	0 56	15 51	0 57	0 11	16 35	0 28	4 27	
M 5	15 33	5 2	1 11	22 33	2 11	28 3	4 49	22 27	1 30	21 34	0 35	14 16	2 6	23 30	0 18	2 43	1 37	0 56	15 51	0 56	0 10	16 36	0 28	4 26	
T 6	15 52	8 35	2 13	22 54	2 15	28 4	4 48	22 25	1 32	21 32	0 35	14 18	2 6	23 30	0 18	2 43	1 37	0 56	15 51	0 55	0 9	16 37	0 29	4 26	
W 7	16 10	11 44	3 8	23 14	2 19	28 4	4 46	22 24	1 34	21 31	0 35	14 20	2 6	23 30	0 18	2 42	1 36	0 55	15 51	0 53	0 8	16 37	0 30	4 26	
T 8	16 27	14 23	3 54	23 33	2 23	28 3	4 45	22 23	1 37	21 29	0 35	14 22	2 6	23 30	0 18	2 42	1 36	0 55	15 51	0 50	0 6	16 38	0 31	4 25	
F 9	16 45	16 25	4 30	23 50	2 26	28 2	4 42	22 22	1 39	21 27	0 35	14 24	2 6	23 31	0 18	2 41	1 36	0 55	15 51	0 47	0 5	16 39	0 31	4 25	
S 10	17 2	17 45	4 55	24 7	2 29	28 1	4 40	22 22	1 41	21 26	0 35	14 26	2 5	23 31	0 18	2 41	1 36	0 55	15 51	0 43	0 4	16 40	0 32	4 25	
S 11	17 19	18 19	5 6	24 21	2 32	27 59	4 37	22 21	1 43	21 24	0 35	14 28	2 5	23 31	0 18	2 40	1 36	0 54	15 51	0 40	0 3	16 40	0 33	4 25	
M12	17 35	18 5	5 5	24 35	2 34	27 56	4 34	22 20	1 46	21 22	0 35	14 30	2 5	23 31	0 18	2 40	1 36	0 54	15 51	0 37	0 1	16 41	0 33	4 24	
T 13	17 52	17 2	4 50	24 47	2 35	27 53	4 30	22 20	1 48	21 20	0 35	14 32	2 5	23 31	0 18	2 39	1 36	0 54	15 51	0 34	0 0	16 42	0 34	4 24	
W14	18 8	15 13	4 21	24 58	2 36	27 50	4 26	22 20	1 50	21 19	0 35	14 35	2 5	23 31	0 18	2 39	1 36	0 54	15 51	0 32	0n 1	16 43	0 35	4 24	
T 15	18 23	12 39	3 41	25 7	2 37	27 46	4 21	22 19	1 53	21 17	0 35	14 37	2 5	23 31	0 18	2 38	1 36	0 53	15 51	0 32	0 2	16 44	0 35	4 23	
F 16	18 39	9 27	2 48	25 15	2 37	27 41	4 16	22 19	1 55	21 15	0 35	14 39	2 5	23 31	0 18	2 38	1 36	0 53	15 51	0 32	0 4	16 44	0 36	4 23	
S 17	18 54	5 41	1 45	25 22	2 36	27 36	4 11	22 20	1 58	21 13	0 35	14 41	2 5	23 31	0 18	2 38	1 36	0 53	15 51	0 32	0 5	16 45	0 36	4 23	
S 18	19 8	1 31	0 35	25 26	2 35	27 30	4 5	22 20	2 0	21 11	0 35	14 43	2 5	23 32	0 18	2 37	1 36	0 53	15 51	0 32	0 6	16 46	0 37	4 23	
M19	19 23	2n54	0s40	25 30	2 32	27 24	3 59	22 20	2 3	21 9	0 35	14 45	2 5	23 32	0 18	2 37	1 36	0 52	15 51	0 32	0 7	16 47	0 37	4 22	
T 20	19 37	7 17	1 55	25 31	2 29	27 17	3 52	22 21	2 5	21 7	0 35	14 47	2 5	23 32	0 19	2 37	1 36	0 52	15 51	0 32	0 9	16 47	0 38	4 22	
W21	19 50	11 21	3 4	25 31	2 26	27 10	3 44	22 21	2 8	21 5	0 35	14 49	2 5	23 32	0 19	2 36	1 36	0 52	15 50	0 30	0 10	16 48	0 38	4 22	
T 22	20 3	14 44	4 1	25 30	2 21	27 2	3 36	22 22	2 10	21 3	0 35	14 51	2 5	23 32	0 19	2 36	1 36	0 52	15 50	0 27	0 11	16 49	0 39	4 21	
F 23	20 16	17 8	4 42	25 27	2 15	26 53	3 28	22 23	2 13	21 1	0 35	14 53	2 5	23 32	0 19	2 35	1 36	0 52	15 50	0 24	0 13	16 50	0 39	4 21	
S 24	20 29	18 18	5 2	25 22	2 8	26 44	3 19	22 24	2 16	20 59	0 35	14 55	2 6	23 32	0 19	2 35	1 36	0 51	15 50	0 20	0 14	16 50	0 40	4 21	
S 25	20 41	18 8	5 1	25 15	1 59	26 34	3 9	22 26	2 18	20 56	0 35	14 57	2 6	23 33	0 19	2 35	1 36	0 51	15 50	0 16	0 15	16 51	0 40	4 20	
M26	20 52	16 46	4 40	25 6	1 49	26 24	2 59	22 27	2 21	20 54	0 35	14 59	2 6	23 33	0 19	2 35	1 36	0 51	15 50	0 13	0 16	16 52	0 40	4 20	
T 27	21 4	14 23	4 2	24 56	1 38	26 12	2 48	22 29	2 24	20 52	0 35	15 0	2 6	23 33	0 19	2 34	1 36	0 51	15 50	0 11	0 18	16 53	0 41	4 20	
W28	21 15	11 15	3 11	24 44	1 26	26 1	2 37	22 31	2 26	20 50	0 35	15 2	2 6	23 33	0 19	2 34	1 36	0 51	15 50	0 10	0 19	16 53	0 41	4 19	
T 29	21 25	7 38	2 11	24 30	1 12	25 48	2 25	22 33	2 29	20 47	0 35	15 4	2 6	23 33	0 19	2 34	1 36	0 51	15 49	0 9	0 20	16 54	0 41	4 19	
F 30	21s35	3n46	1s 6	24s13	0s57	25s35	2s13	22n35	2n32	20s45	0s35	15s 6	2n 6	23n33	0n19	2n33	1s36	0n50	15s49	0s10	0n21	16s55	0s42	4n19	

ASTRODIENST EPHEMERIS for the year 1866
geocentric

DECEMBER 1866

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	4 38 29	8°36'30	0°24	22°R45	25°R 9	0°15	0°7	17°48	7°R28	10°R 9	13°R44	0°R24	29° 3	8° 6	18°12	S 1	
S 2	4 42 26	9°37'23	12°40	22°7 6	24°R45	0°R15	0°19	17°55	7°25	10°Y 8	13°R43	0°24	29° 0	8°13	18°12	S 2	
M 3	4 46 22	10°38'17	24°44	21°16	24°18	0°15	0°30	18° 1	7°23	10° 7	13°42	0°21	28°57	8°19	18°12	M 3	
T 4	4 50 19	11°39'12	6°14	20°16	23°50	0°13	0°42	18° 8	7°21	10° 7	13°41	0°15	28°54	8°26	18°13	T 4	
W 5	4 54 15	12°40'08	18°33	19° 7	23°19	0°11	0°53	18°15	7°19	10° 6	13°40	0° 7	28°50	8°33	18°13	W 5	
T 6	4 58 12	13°41'05	0°24	17°51	22°48	0° 8	1° 5	18°22	7°16	10° 6	13°39	29°55	28°47	8°40	18°13	T 6	
F 7	5 2 8	14°42'04	12°15	16°30	22°15	0° 4	1°17	18°29	7°14	10° 5	13°38	29°42	28°44	8°46	18°14	F 7	
S 8	5 6 5	15°43'03	24° 8	15° 7	21°40	29°59	1°29	18°35	7°12	10° 5	13°37	29°27	28°41	8°53	18°14	S 8	
S 9	5 10 2	16°44'04	6°3	13°45	21° 5	29°54	1°41	18°42	7° 9	10° 4	13°36	29°13	28°38	9° 0	18°15	S 9	
M10	5 13 58	17°45'05	18° 4	12°26	20°29	29°48	1°53	18°49	7° 7	10° 4	13°35	28°59	28°34	9° 6	18°15	M10	
T 11	5 17 55	18°46'06	0°10	11°14	19°53	29°41	2° 5	18°55	7° 5	10° 3	13°34	28°48	28°31	9°13	18°16	T 11	
W12	5 21 51	19°47'09	12°24	10° 9	19°17	29°33	2°17	19° 2	7° 2	10° 3	13°34	28°40	28°28	9°20	18°17	W12	
T 13	5 25 48	20°48'12	24°49	9°14	18°40	29°24	2°29	19° 8	7° 0	10° 3	13°33	28°35	28°25	9°27	18°17	T 13	
F 14	5 29 44	21°49'15	7°19	8°29	18° 4	29°14	2°42	19°15	6°57	10° 2	13°32	28°33	28°22	9°33	18°18	F 14	
S 15	5 33 41	22°50'19	20°27	7°56	17°29	29° 3	2°54	19°21	6°55	10° 2	13°31	28°32	28°19	9°40	18°19	S 15	
S 16	5 37 37	23°51'23	3°47	7°33	16°54	28°52	3° 7	19°27	6°52	10° 2	13°30	28°32	28°15	9°47	18°20	S 16	
M17	5 41 34	24°52'27	17°33	7°21	16°20	28°40	3°19	19°34	6°50	10° 2	13°29	28°32	28°12	9°53	18°21	M17	
T 18	5 45 31	25°53'32	1°46	7°D20	15°48	28°27	3°32	19°40	6°47	10° 2	13°29	28°29	28° 9	10° 0	18°22	T 18	
W19	5 49 27	26°54'37	16°25	7°28	15°17	28°13	3°45	19°46	6°45	10° 2	13°28	28°23	28° 6	10° 7	18°23	W19	
T 20	5 53 24	27°55'43	1°12	7°45	14°48	27°59	3°58	19°52	6°42	10° 2	13°27	28°15	28° 3	10°14	18°24	T 20	
F 21	5 57 20	28°56'48	16°42	8°10	14°21	27°43	4°10	19°59	6°40	10°D 2	13°26	28° 4	28° 0	10°20	18°26	F 21	
S 22	6 1 17	29°57'55	2°0	8°42	13°55	27°27	4°23	20° 5	6°37	10° 2	13°26	27°53	27°56	10°27	18°27	S 22	
S 23	6 5 13	0°59'01	17°10	9°21	13°32	27°10	4°36	20°11	6°34	10° 2	13°25	27°41	27°53	10°34	18°28	S 23	
M24	6 9 10	2° 0'08	2°12	10° 6	13°11	26°53	4°49	20°17	6°32	10° 2	13°24	27°31	27°50	10°40	18°29	M24	
T 25	6 13 6	3° 1'16	16°27	10°55	12°52	26°35	5° 3	20°23	6°29	10° 2	13°23	27°23	27°47	10°47	18°31	T 25	
W26	6 17 3	4° 2'24	0°12	11°49	12°36	26°16	5°16	20°29	6°27	10° 2	13°23	27°19	27°44	10°54	18°32	W26	
T 27	6 21 0	5° 3'32	13°47	12°47	12°22	25°57	5°29	20°34	6°24	10° 2	13°22	27°17	27°40	11° 1	18°34	T 27	
F 28	6 24 56	6° 4'41	26°44	13°49	12°11	25°36	5°42	20°40	6°21	10° 2	13°21	27°D16	27°37	11° 7	18°35	F 28	
S 29	6 28 53	7° 5'50	9°17	14°54	12° 2	25°16	5°56	20°46	6°19	10° 2	13°21	27°R16	27°34	11°14	18°37	S 29	
S 30	6 32 49	8° 7'00	21°32	16° 2	11°56	24°55	6° 9	20°52	6°16	10° 3	13°20	27°15	27°31	11°21	18°39	S 30	
M31	6 36 46	9° 8'10	3°13	17°12	11°52	24°53	6°22	20°15	6°14	10°Y 3	13°R20	27° 13	27° 28	11°27	18°40	M31	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	21s45	0s10	0n 0	23s55	0s40	25s22	2s 0	22n38	2n35	20s43	0s35	15s 8	2n 6	23n33	0n19	2n33	1s36
S 2	21 54	4 1	1 5	23 35	0 22	25 7	1 47	22 40	2 37	20 40	0 35	15 10	2 6	23 33	0 19	2 33	1 36
M 3	22 3	7 38	2 5	23 13	0 3	24 53	1 33	22 43	2 40	20 38	0 35	15 12	2 6	23 34	0 19	2 33	1 36
T 4	22 12	10 55	3 0	22 49	0n17	24 37	1 19	22 46	2 43	20 35	0 35	15 14	2 6	23 34	0 19	2 33	1 36
W 5	22 20	13 44	3 46	22 23	0 38	24 21	1 4	22 49	2 46	20 33	0 35	15 15	2 6	23 34	0 19	2 32	1 35
T 6	22 27	15 59	4 22	21 56	0 58	24 5	0 49	22 53	2 49	20 30	0 35	15 17	2 6	23 34	0 19	2 32	1 35
F 7	22 35	17 32	4 47	21 29	1 18	23 48	0 34	22 56	2 51	20 28	0 35	15 19	2 6	23 34	0 19	2 32	1 35
S 8	22 41	18 21	4 59	21 2	1 36	23 30	0 19	23 0	2 54	20 25	0 35	15 21	2 6	23 34	0 19	2 32	1 35
S 9	22 48	18 21	4 58	20 35	1 54	23 13	0 3	23 4	2 57	20 22	0 35	15 23	2 6	23 34	0 19	2 32	1 35
M10	22 53	17 33	4 44	20 10	2 9	22 54	0n12	23 8	3 0	20 20	0 35	15 24	2 6	23 35	0 19	2 32	1 35
T 11	22 59	15 56	4 17	19 47	2 22	22 36	0 28	23 12	3 3	20 17	0 35	15 26	2 6	23 35	0 19	2 32	1 35
W12	23 4	13 36	3 38	19 27	2 33	22 18	0 44	23 17	3 6	20 14	0 35	15 28	2 6	23 35	0 19	2 31	1 35
T 13	23 8	10 37	2 48	19 11	2 42	21 59	0 59	23 21	3 8	20 12	0 35	15 29	2 6	23 35	0 19	2 31	1 35
F 14	23 12	7 5	1 49	18 58	2 48	21 41	1 14	23 26	3 11	20 9	0 35	15 31	2 7	23 35	0 19	2 31	1 35
S 15	23 16	3 8	0 43	18 49	2 52	21 23	1 30	23 31	3 14	20 6	0 36	15 33	2 7	23 35	0 19	2 31	1 35
S 16	23 19	1n 5	0s28	18 43	2 54	21 5	1 44	23 36	3 17	20 3	0 36	15 34	2 7	23 35	0 19	2 31	1 35
M17	23 21	5 22	1 39	18 41	2 55	20 47	1 59	23 41	3 19	20 0	0 36	15 36	2 7	23 36	0 19	2 31	1 35
T 18	23 23	9 30	2 46	18 42	2 54	20 30	2 13	23 47	3 22	19 57	0 36	15 38	2 7	23 36	0 19	2 31	1 35
W19	23 25	13 11	3 44	18 46	2 51	20 13	2 27	23 52	3 25	19 54	0 36	15 39	2 7	23 36	0 19	2 31	1 35
T 20	23 26	16 5	4 28	18 52	2 47	19 56	2 40	23 58	3 27	19 51	0 36	15 41	2 7	23 36	0 19	2 31	1 35
F 21	23 27	17 54	4 54	19 1	2 42	19 41	2 53	24 3	3 30	19 48	0 36	15 42	2 7	23 36	0 19	2 31	1 35
S 22	23 27	18 27	4 59	19 11	2 37	19 26	3 5	24 9	3 32	19 45	0 36	15 44	2 7	23 36	0 19	2 31	1 35
S 23	23 27	17 40	4 43	19 23	2 31	19 11	3 16	24 15	3 35	19 42	0 36	15 45	2 7	23 36	0 19	2 31	1 35
M24	23 26	15 41	4 8	19 36	2 24	18 58	3 27	24 21	3 37	19 39	0 36	15 47	2 7	23 37	0 19	2 31	1 35
T 25	23 25	12 46	3 48	19 51	2 16	18 45	3 38	24 27	3 40	19 36	0 36	15 48	2 8	23 37	0 19	2 32	1 35
W26	23 24	9 13	2 17	20 5	2 9	18 33	3 48	24 33	3 42	19 33	0 36	15 50	2 8	23 37	0 19	2 32	1 34
T 27	23 21	5 18	1 11	20 21	2 1	18 23	3 57	24 39	3 45	19 29	0 36	15 51	2 8	23 37	0 19	2 32	1 34
F 28	23 19	1 15	0 3	20 36	1 53	18 12	4 6	24 45	3 47	19 26	0 36	15 52	2 8	23 37	0 19	2 32	1 34
S 29	23 16	2s43	1n 3	20 52	1 44	18 3	4 14	24 51	3 49	19 23	0 36	15 54	2 8	23 37	0 19	2 32	1 34
S 30	23 12	6 28	2 5	21 8	1 36	17 55	4 21	24 57	3 51	19 20	0 36	15 55	2 8	23 37	0 19	2 32	1 34
M31	23s 8	9s54	2n59	21s23	1n27	17s48	4n28	25n 3	3n53	19s16	0s36	15s57	2n 8	23n38	0n19	2n32	1s34

Julian Day Number = 2402936.5, Delta T = 6.30 sec
Ecliptic obliquity = 23°27'14, Nutation = -0°00'01, out-of-bounds declination in red
Ayanamsha: Fagan/Bradley = 22°52'55, Lahiri = 21°59'55