



Astrodienst Ephemeris Tables for the year 1882

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 D5EPH

ASTRODIENST EPHEMERIS for the year 1882
geocentric

JANUARY 1882

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 42 10	10♌31°54	1♈7	7♌3	28♌17	3°R48	16°R22	5°R35	18°R32	13°R55	27°R37	8♌50	7♌17	21♌58	17°R57	S 1
M 2	6 46 7	11°33'02	13°44	8°43	29°32	3♌25	16♌20	5♌34	18♌32	13♌55	27♌37	8°R50	7°14	22°4	17♌56	M 2
T 3	6 50 3	12°34'11	26°11	10°19	0♌48	3°3	16°18	5°34	18°31	13°54	27°36	8°49	7°10	22°11	17°54	T 3
W 4	6 54 0	13°35'19	8♌29	11°55	2°3	2°41	16°17	5°33	18°31	13°53	27°35	8°46	7°7	22°18	17°53	W 4
T 5	6 57 56	14°36'27	20°38	13°32	3°18	2°20	16°16	5°33	18°30	13°52	27°34	8°41	7°4	22°24	17°51	T 5
F 6	7 1 53	15°37'35	2♌40	15°9	4°34	1°59	16°15	5°33	18°29	13°52	27°34	8°34	7°1	22°31	17°50	F 6
S 7	7 5 50	16°38'43	14°37	16°47	5°49	1°39	16°14	5°D33	18°29	13°51	27°33	8°26	6°58	22°38	17°49	S 7
S 8	7 9 46	17°39'51	26°30	18°25	7°5	1°19	16°13	5°33	18°28	13°51	27°32	8°19	6°55	22°45	17°47	S 8
M 9	7 13 43	18°40'58	8♌21	20°4	8°20	0°59	16°13	5°33	18°27	13°50	27°32	8°12	6°51	22°51	17°46	M 9
T 10	7 17 39	19°42'06	20°14	21°43	9°35	0°41	16°D13	5°33	18°26	13°50	27°31	8°6	6°48	22°58	17°45	T 10
W 11	7 21 36	20°43'13	2♌11	23°22	10°51	0°23	16°13	5°34	18°25	13°49	27°30	8°2	6°45	23°5	17°44	W 11
T 12	7 25 32	21°44'20	14°19	25°2	12°6	0°5	16°13	5°34	18°24	13°49	27°30	8°0	6°42	23°12	17°43	T 12
F 13	7 29 29	22°45'27	26°40	26°42	13°22	29♈48	16°13	5°35	18°23	13°48	27°29	8°D0	6°39	23°18	17°42	F 13
S 14	7 33 25	23°46'34	9♌20	28°23	14°37	29°32	16°14	5°36	18°22	13°48	27°29	8°1	6°35	23°25	17°41	S 14
S 15	7 37 22	24°47'41	22°23	0♌4	15°52	29°17	16°15	5°37	18°21	13°48	27°28	8°2	6°32	23°32	17°41	S 15
M 16	7 41 19	25°48'48	5♌53	1°46	17°8	29°3	16°16	5°38	18°19	13°47	27°28	8°R3	6°29	23°38	17°40	M 16
T 17	7 45 15	26°49'54	19°52	3°28	18°23	28°49	16°17	5°39	18°18	13°47	27°27	8°2	6°26	23°45	17°39	T 17
W 18	7 49 12	27°51'00	4♌58	5°11	19°39	28°36	16°19	5°40	18°17	13°47	27°27	8°0	6°23	23°52	17°39	W 18
T 19	7 53 8	28°52'06	19°9	6°53	20°54	28°24	16°20	5°41	18°15	13°47	27°26	7°55	6°20	23°59	17°38	T 19
F 20	7 57 5	29°53'11	4♌16	8°36	22°9	28°12	16°22	5°43	18°14	13°47	27°26	7°47	6°16	24°5	17°38	F 20
S 21	8 1 1	0♌54'15	19°29	10°19	23°25	28°2	16°24	5°44	18°13	13°47	27°25	7°39	6°13	24°12	17°37	S 21
S 22	8 4 58	1°55'18	4♌39	12°2	24°40	27°52	16°27	5°46	18°11	13°46	27°25	7°30	6°10	24°19	17°37	S 22
M 23	8 8 54	2°56'20	19°35	13°45	25°56	27°43	16°29	5°47	18°10	13°46	27°24	7°23	6°7	24°25	17°37	M 23
T 24	8 12 51	3°57'21	4♌9	15°28	27°11	27°35	16°32	5°49	18°8	13°D46	27°24	7°17	6°4	24°32	17°37	T 24
W 25	8 16 48	4°58'21	18°17	17°11	28°26	27°27	16°35	5°51	18°6	13°46	27°24	7°13	6°1	24°39	17°37	W 25
T 26	8 20 44	5°59'20	1♌59	18°53	29°42	27°21	16°38	5°53	18°5	13°46	27°23	7°D12	5°57	24°46	17°D37	T 26
F 27	8 24 41	7°0'18	15°16	20°34	0♌57	27°15	16°41	5°55	18°3	13°47	27°23	7°12	5°54	24°52	17°37	F 27
S 28	8 28 37	8°1'14	28°11	22°14	2°12	27°10	16°44	5°58	18°1	13°47	27°23	7°13	5°51	24°59	17°37	S 28
S 29	8 32 34	9°2'09	10♈48	23°53	3°28	27°6	16°48	6°0	17°59	13°47	27°22	7°R13	5°48	25°6	17°37	S 29
M 30	8 36 30	10°3'03	23°12	25°30	4°43	27°3	16°52	6°3	17°57	13°47	27°22	7°12	5°45	25°12	17°37	M 30
T 31	8 40 27	11♌35'56	5♌24	27♌5	5♌58	27♈0	16♌56	6♌5	17♌55	13♌47	27♌22	7♌8	5♌41	25♌19	17♌37	T 31

Delta T = -3.93 sec

FEBRUARY 1882

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 44 23	12♌4'48	17♌29	28♌37	7♌13	26°R59	17♌0	6♌8	17°R54	13♌48	27°R22	7°R1	5♌38	25♌26	17♌38	W 1
T 2	8 48 20	13°5'38	29°28	0♌6	8°29	26♈58	17°5	6°11	17♌52	13°48	27♌22	6♌52	5°35	25°33	17°38	T 2
F 3	8 52 17	14°6'27	11♌24	1°32	9°44	26°D58	17°9	6°14	17°50	13°48	27°21	6°40	5°32	25°39	17°39	F 3
S 4	8 56 13	15°7'15	23°17	2°53	10°59	26°58	17°14	6°17	17°48	13°49	27°21	6°27	5°29	25°46	17°39	S 4
S 5	9 0 10	16°8'01	5♌10	4°8	12°15	27°0	17°19	6°20	17°45	13°49	27°21	6°13	5°26	25°53	17°40	S 5
M 6	9 4 6	17°8'47	17°3	5°18	13°30	27°2	17°24	6°23	17°43	13°49	27°21	6°0	5°22	26°0	17°41	M 6
T 7	9 8 3	18°9'31	28°58	6°21	14°45	27°4	17°29	6°26	17°41	13°50	27°21	5°49	5°19	26°6	17°41	T 7
W 8	9 11 59	19°10'14	10♌58	7°17	16°0	27°8	17°35	6°30	17°39	13°50	27°21	5°40	5°16	26°13	17°42	W 8
T 9	9 15 56	20°10'57	23°5	8°5	17°15	27°12	17°40	6°33	17°37	13°51	27°21	5°34	5°13	26°20	17°43	T 9
F 10	9 19 52	21°11'38	5♌24	8°44	18°31	27°17	17°46	6°37	17°35	13°52	27°D21	5°31	5°10	26°26	17°44	F 10
S 11	9 23 49	22°12'18	18°0	9°14	19°46	27°22	17°52	6°40	17°32	13°52	27°21	5°D30	5°7	26°33	17°45	S 11
S 12	9 27 46	23°12'56	0♌55	9°33	21°1	27°29	17°58	6°44	17°30	13°53	27°21	5°R30	5°3	26°40	17°46	S 12
M 13	9 31 42	24°13'34	14°16	9°R43	22°16	27°35	18°5	6°48	17°28	13°53	27°21	5°30	5°0	26°47	17°47	M 13
T 14	9 35 39	25°14'11	28°4	9°42	23°31	27°43	18°11	6°52	17°25	13°54	27°21	5°28	4°57	26°53	17°49	T 14
W 15	9 39 35	26°14'46	12♌22	9°30	24°47	27°51	18°18	6°56	17°23	13°55	27°21	5°24	4°54	27°0	17°50	W 15
T 16	9 43 32	27°15'21	27°8	9°8	26°2	28°0	18°25	7°0	17°21	13°56	27°21	5°18	4°51	27°7	17°51	T 16
F 17	9 47 28	28°15'53	12♌15	8°37	27°17	28°9	18°32	7°4	17°18	13°57	27°21	5°8	4°47	27°13	17°53	F 17
S 18	9 51 25	29°16'25	27°35	7°56	28°32	28°19	18°39	7°9	17°16	13°57	27°22	4°57	4°44	27°20	17°54	S 18
S 19	9 55 21	0♌16'54	12♌56	7°8	29°47	28°29	18°46	7°13	17°13	13°58	27°22	4°45	4°41	27°27	17°56	S 19
M 20	9 59 18	1°17'22	28°6	6°14	1♌2	28°41	18°53	7°18	17°11	13°59	27°22	4°35	4°38	27°34	17°57	M 20
T 21	10 3 15	2°17'48	12♌56	5°14	2°17	28°52	19°1	7°22	17°8	14°0	27°22	4°26	4°35	27°40	17°59	T 21
W 22	10 7 11	3°18'13	27°18	4°10	3°33	29°4	19°9	7°27	17°6	14°1	27°22	4°20	4°32	27°47	18°1	W 22
T 23	10 11 8	4°18'35	11♌11	3°5	4°48	29°17	19°17	7°32	17°3	14°2	27°23	4°17	4°28	27°54	18°2	T 23
F 24	10 15 4	5°18'55	24°35	2°0	6°3	29°30	19°25	7°36	17°1	14°3	27°23	4°16	4°25	28°1	18°4	F 24
S 25	10 19 1	6°19'14	7♈32	0°56	7°18	29°44	19°33	7°41	16°58	14°4	27°23	4°15	4°22	28°7	18°6	S 25
S 26	10 22 57	7°19'30	20°8	29♌55	8°33	29°58	19°41	7°46	16°56	14°5	27°24	4°15	4°19	28°14	18°8	S 26
M 27	10 26 54	8°19'45	2♌26	28°57	9°48	0♌13	19°50	7°51	16°53	14°6	27°24	4°13	4°16	28°21	18°10	M 27
T 28	10 30 50	9♌19'57	14♌33	28♌5	11♌3	0♌28	19♌58	7♌57	16♌50	14♌8	27♌24	4♌9	4♌13	28♌27	18♌12	T 28

Delta T = -3.96 sec

ASTRODIENST EPHEMERIS for the year 1882

geocentric

MARCH 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 34 47	10°08'00"	26°31'	27°19'	12°18'	0°44'	20°8'	8°2'	16°48'	14°8'	27°25'	4°R 2	4°9'	28°34'	18°14'	W 1
T 2	10 38 44	11°20'16"	8°24'	26°39'	13°33'	1°0'	20°16'	8°7'	16°45'	14°10'	27°25'	3°52'	4°6'	28°41'	18°16'	T 2
F 3	10 42 40	12°20'23"	20°16'	26°5'	14°48'	1°17'	20°25'	8°12'	16°43'	14°11'	27°26'	3°40'	4°3'	28°48'	18°19'	F 3
S 4	10 46 37	13°20'27"	2°8'	25°39'	16°2'	1°34'	20°34'	8°18'	16°40'	14°13'	27°26'	3°26'	4°0'	28°54'	18°21'	S 4
S 5	10 50 33	14°20'29"	14°2'	25°19'	17°17'	1°51'	20°43'	8°23'	16°37'	14°14'	27°27'	3°11'	3°57'	29°1'	18°23'	S 5
M 6	10 54 30	15°20'30"	26°0'	25°6'	18°32'	2°9'	20°52'	8°29'	16°35'	14°15'	27°27'	2°57'	3°53'	29°8'	18°26'	M 6
T 7	10 58 26	16°20'29"	8°1'	25°D 0'	19°47'	2°27'	21°2'	8°35'	16°32'	14°17'	27°28'	2°45'	3°50'	29°14'	18°28'	T 7
W 8	11 2 23	17°20'26"	20°9'	25°0'	21°2'	2°46'	21°11'	8°40'	16°30'	14°18'	27°28'	2°36'	3°47'	29°21'	18°31'	W 8
T 9	11 6 19	18°20'21"	2°24'	25°6'	22°17'	3°5'	21°21'	8°46'	16°27'	14°19'	27°29'	2°29'	3°44'	29°28'	18°33'	T 9
F 10	11 10 16	19°20'15"	14°49'	25°19'	23°32'	3°24'	21°31'	8°52'	16°24'	14°21'	27°29'	2°26'	3°41'	29°35'	18°36'	F 10
S 11	11 14 12	20°20'07"	27°27'	25°36'	24°46'	3°44'	21°41'	8°58'	16°22'	14°22'	27°30'	2°D24'	3°38'	29°41'	18°39'	S 11
S 12	11 18 9	21°19'57"	10°23'	25°59'	26°1'	4°4'	21°51'	9°4'	16°19'	14°24'	27°31'	2°24'	3°34'	29°48'	18°41'	S 12
M13	11 22 6	22°19'45"	23°38'	26°27'	27°16'	4°25'	22°1'	9°10'	16°16'	14°25'	27°31'	2°R25'	3°31'	29°55'	18°44'	M13
T 14	11 26 2	23°19'32"	7°18'	26°59'	28°31'	4°45'	22°11'	9°16'	16°14'	14°27'	27°32'	2°24'	3°28'	0°2'	18°47'	T 14
W15	11 29 59	24°19'18"	21°23'	27°36'	29°45'	5°7'	22°22'	9°22'	16°11'	14°28'	27°33'	2°21'	3°25'	0°8'	18°50'	W15
T 16	11 33 55	25°19'01"	5°52'	28°17'	1°Y 0'	5°28'	22°32'	9°28'	16°9'	14°30'	27°33'	2°16'	3°22'	0°15'	18°53'	T 16
F 17	11 37 52	26°18'43"	20°44'	29°1'	2°15'	5°50'	22°43'	9°35'	16°6'	14°32'	27°34'	2°8'	3°18'	0°22'	18°56'	F 17
S 18	11 41 48	27°18'23"	5°51'	29°49'	3°29'	6°12'	22°54'	9°41'	16°4'	14°33'	27°35'	1°59'	3°15'	0°28'	18°59'	S 18
S 19	11 45 45	28°18'01"	21°3'	0°X41'	4°44'	6°34'	23°4'	9°47'	16°1'	14°35'	27°35'	1°49'	3°12'	0°35'	19°2'	S 19
M20	11 49 41	29°17'37"	6°Y10'	1°35'	5°59'	6°57'	23°15'	9°54'	15°58'	14°37'	27°36'	1°40'	3°9'	0°42'	19°5'	M20
T 21	11 53 38	0°Y17'11"	21°1'	2°33'	7°13'	7°20'	23°26'	10°0'	15°56'	14°38'	27°37'	1°32'	3°6'	0°49'	19°8'	T 21
W22	11 57 35	1°16'43"	5°30'	3°33'	8°28'	7°43'	23°37'	10°7'	15°53'	14°40'	27°38'	1°27'	3°3'	0°55'	19°11'	W22
T 23	12 1 31	2°16'12"	19°30'	4°36'	9°42'	8°7'	23°48'	10°14'	15°51'	14°42'	27°39'	1°24'	2°59'	1°2'	19°14'	T 23
F 24	12 5 28	3°15'40"	3°II 2'	5°41'	10°57'	8°31'	24°0'	10°20'	15°48'	14°44'	27°39'	1°D24'	2°56'	1°9'	19°18'	F 24
S 25	12 9 24	4°15'05"	16°7'	6°49'	12°12'	8°55'	24°11'	10°27'	15°46'	14°45'	27°40'	1°24'	2°53'	1°16'	19°21'	S 25
S 26	12 13 21	5°14'28"	28°47'	7°59'	13°26'	9°19'	24°23'	10°34'	15°44'	14°47'	27°41'	1°25'	2°50'	1°22'	19°24'	S 26
M27	12 17 17	6°13'48"	11°9'	9°11'	14°41'	9°44'	24°34'	10°40'	15°41'	14°49'	27°42'	1°R25'	2°47'	1°29'	19°28'	M27
T 28	12 21 14	7°13'07"	23°15'	10°25'	15°55'	10°8'	24°46'	10°47'	15°39'	14°51'	27°43'	1°24'	2°44'	1°36'	19°31'	T 28
W29	12 25 10	8°12'23"	5°II13'	11°41'	17°9'	10°34'	24°57'	10°54'	15°36'	14°53'	27°44'	1°20'	2°40'	1°42'	19°34'	W29
T 30	12 29 7	9°11'36"	17°5'	12°59'	18°24'	10°59'	25°9'	11°1'	15°34'	14°55'	27°45'	1°14'	2°37'	1°49'	19°38'	T 30
F 31	12 33 4	10°Y10'47"	28°II56'	14°X19'	19°Y38'	11°II24'	25°8'21"	11°8'8"	15°32'	14°57'	27°46'	1°X 6'	2°X34'	1°56'	19°41'	F 31

Delta T = -3.98 sec

APRIL 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 37 0	11°Y 9'56"	10°II50'	15°X41'	20°Y53'	11°II50'	25°8'33"	11°8'15"	15°R29'	14°8'58"	27°8'47"	0°R57'	2°X31'	2°II 3'	19°8'45"	S 1
S 2	12 40 57	12°9'03"	22°47'	17°4'	22°7'	12°16'	25°45'	11°22'	15°27'	15°0'	27°48'	0°X48'	2°28'	2°9'	19°49'	S 2
M 3	12 44 53	13°8'08"	4°II51'	18°29'	23°21'	12°42'	25°57'	11°29'	15°25'	15°2'	27°49'	0°38'	2°24'	2°16'	19°52'	M 3
T 4	12 48 50	14°7'11"	17°2'	19°56'	24°35'	13°9'	26°9'	11°36'	15°23'	15°4'	27°50'	0°31'	2°21'	2°23'	19°56'	T 4
W 5	12 52 46	15°6'11"	29°22'	21°24'	25°50'	13°35'	26°21'	11°43'	15°21'	15°6'	27°51'	0°25'	2°18'	2°29'	20°0'	W 5
T 6	12 56 43	16°5'10"	11°II51'	22°54'	27°4'	14°2'	26°34'	11°51'	15°18'	15°8'	27°52'	0°21'	2°15'	2°36'	20°3'	T 6
F 7	13 0 39	17°4'07"	24°31'	24°26'	28°18'	14°29'	26°46'	11°58'	15°16'	15°10'	27°53'	0°D19'	2°12'	2°43'	20°7'	F 7
S 8	13 4 36	18°3'02"	7°X23'	25°59'	29°32'	14°56'	26°58'	12°5'	15°14'	15°12'	27°54'	0°19'	2°9'	2°50'	20°11'	S 8
S 9	13 8 32	19°1'56"	20°29'	27°34'	0°X46'	15°24'	27°11'	12°12'	15°12'	15°15'	27°55'	0°20'	2°5'	2°56'	20°15'	S 9
M10	13 12 29	20°0'47"	3°II51'	29°11'	2°1'	15°51'	27°24'	12°20'	15°10'	15°17'	27°56'	0°22'	2°2'	3°3'	20°19'	M10
T 11	13 16 26	20°59'37"	17°30'	0°Y48'	3°15'	16°19'	27°36'	12°27'	15°8'	15°19'	27°57'	0°R22'	1°59'	3°10'	20°23'	T 11
W12	13 20 22	21°58'25"	1°II28'	2°28'	4°29'	16°47'	27°49'	12°34'	15°6'	15°21'	27°58'	0°22'	1°56'	3°17'	20°26'	W12
T 13	13 24 19	22°57'12"	0°X4'	4°9'	5°43'	17°15'	28°2'	12°42'	15°4'	15°23'	28°0'	0°20'	1°53'	3°23'	20°34'	T 13
F 14	13 28 15	23°55'56"	0°X16'	5°52'	6°57'	17°43'	28°14'	12°49'	15°2'	15°25'	28°1'	0°17'	1°50'	3°30'	20°34'	F 14
S 15	13 32 12	24°54'39"	14°59'	7°36'	8°11'	18°12'	28°27'	12°57'	15°1'	15°27'	28°2'	0°12'	1°46'	3°37'	20°38'	S 15
S 16	13 36 8	25°53'20"	29°48'	9°22'	9°25'	18°40'	28°40'	13°4'	14°59'	15°29'	28°3'	0°7'	1°43'	3°43'	20°42'	S 16
M17	13 40 5	26°52'00"	14°Y34'	11°9'	10°39'	19°9'	28°53'	13°12'	14°57'	15°31'	28°4'	0°2'	1°40'	3°50'	20°46'	M17
T 18	13 44 1	27°50'37"	29°10'	12°58'	11°53'	19°38'	29°6'	13°19'	14°55'	15°34'	28°5'	29°II58'	1°37'	3°57'	20°51'	T 18
W19	13 47 58	28°49'13"	13°8'29'	14°49'	13°7'	20°7'	29°19'	13°27'	14°54'	15°36'	28°7'	29°56'	1°34'	4°4'	20°55'	W19
T 20	13 51 55	29°47'47"	27°26'	16°41'	14°21'	20°36'	29°32'	13°34'	14°52'	15°38'	28°8'	29°D55'	1°30'	4°10'	20°59'	T 20
F 21	13 55 51	0°X46'19"	10°II59'	18°35'	15°35'	21°6'	29°45'	13°42'	14°50'	15°40'	28°9'	29°55'	1°27'	4°17'	21°3'	F 21
S 22	13 59 48	1°44'48"	24°7'	20°31'	16°48'	21°35'	29°59'	13°50'	14°49'	15°42'	28°10'	29°56'	1°24'	4°24'	21°7'	S 22
S 23	14 3 44	2°43'16"	6°II52'	22°28'	18°2'	22°5'	0°II12'	13°57'	14°47'	15°45'	28°11'	29°58'	1°21'	4°30'	21°11'	S 23
M24	14 7 41	3°41'41"	19°18'	24°27'	19°16'	22°35'	0°25'	14°5'	14°46'	15°47'	28°13'	29°59'	1°18'	4°37'	21°15'	M24
T 25	14 11 37	4°40'05"	1°II28'	26°27'	20°30'	23°5'	0°39'	14°12'	14°45'	15°49'	28°14'	0°R 0'	1°15'	4°44'	21°19'	T 25
W26	14 15 34	5°38'26"	13°28'	28°29'	21°43'	23°35'	0°52'	14°20'	14°43'	15°51'	28°15'	0°X 0'	1°11'	4°51'	21°24'	W26
T 27	14 19 30	6°36'45"	25°22'	0°X32'	22°57'	24°5'	1°5'	14°28'	14°42'	15°53'	28°16'	29°II59'	1°8'	4°57'	21°28'	T 27
F 28	14 23 27	7°35'02"	7°II14'	2°36'	24°11'	24°35'	1°19'	14°35'	14°41'	15°56'	28°18'	29°56'	1°5'	5°4'	21°32'	F 28
S 29	14 27 24	8°33'17"	19°9'	4°42'	25°25'	25°6'	1°32'	14°43'	14°39'	15°58'	28°19'	29°53'	1°2'	5°11'	21°36'	S 29
S 30	14 31 20	9°31'30"	1°II10'	6°X49'	26°X38'	25°II36'	1°II46'	14°8'51"	14°38'	16°8'0"	28°20'	29°II50'	0°X59'	5°II18'	21°41'	S 30

Delta T = -4.00 sec

ASTRODIENST EPHEMERIS for the year 1882
geocentric

MAY 1882

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 35 17	10♈29'41	13♊21	8♉57	27♉52	26♉7	1♈59	14♈59	14♈37	16♈2	28♈22	29♈47	0♈55	5♈24	21♈45	M 1
T 2	14 39 13	11°27'50	25°42	11° 6	29° 5	26°38	2°13	15° 6	14♈36	16° 5	28°23	29♈44	0°52	5°31	21°49	T 2
W 3	14 43 10	12°25'58	8♈16	13°16	0♈19	27° 9	2°27	15°14	14°35	16° 7	28°24	29°43	0°49	5°38	21°54	W 3
T 4	14 47 6	13°24'04	21° 3	15°26	1°32	27°40	2°40	15°22	14°34	16° 9	28°26	29°42	0°46	5°44	21°58	T 4
F 5	14 51 3	14°22'08	4♈4	17°36	2°46	28°11	2°54	15°29	14°33	16°11	28°27	29°D41	0°43	5°51	22° 2	F 5
S 6	14 54 59	15°20'11	17°18	19°46	3°59	28°42	3° 8	15°37	14°32	16°14	28°28	29°42	0°40	5°58	22° 6	S 6
S 7	14 58 56	16°18'12	0♈45	21°55	5°13	29°14	3°21	15°45	14°31	16°16	28°29	29°43	0°36	6° 5	22°11	S 7
M 8	15 2 53	17°16'12	14°24	24° 4	6°26	29°45	3°35	15°52	14°31	16°18	28°31	29°44	0°33	6°11	22°15	M 8
T 9	15 6 49	18°14'10	28°15	26°12	7°39	0♈17	3°49	16° 0	14°30	16°20	28°32	29°45	0°30	6°18	22°19	T 9
W10	15 10 46	19°12'07	12♈17	28°19	8°53	0°48	4° 3	16° 8	14°29	16°23	28°34	29°45	0°27	6°25	22°24	W10
T 11	15 14 42	20°10'03	26°28	0♈24	10° 6	1°20	4°17	16°16	14°29	16°25	28°35	29°R45	0°24	6°32	22°28	T 11
F 12	15 18 39	21° 7'58	10♈46	2°28	11°19	1°52	4°30	16°23	14°28	16°27	28°36	29°45	0°21	6°38	22°33	F 12
S 13	15 22 35	22° 5'51	25° 8	4°29	12°33	2°24	4°44	16°31	14°27	16°29	28°38	29°44	0°17	6°45	22°37	S 13
S 14	15 26 32	23° 3'43	9♈30	6°28	13°46	2°56	4°58	16°39	14°27	16°32	28°39	29°43	0°14	6°52	22°41	S 14
M15	15 30 28	24° 1'34	23°49	8°25	14°59	3°28	5°12	16°46	14°27	16°34	28°40	29°43	0°11	6°58	22°46	M15
T 16	15 34 25	24°59'24	7♈58	10°19	16°12	4° 0	5°26	16°54	14°26	16°36	28°42	29°42	0° 8	7° 5	22°50	T 16
W17	15 38 22	25°57'12	21°55	12°11	17°25	4°33	5°40	17° 2	14°26	16°38	28°43	29°42	0° 5	7°12	22°54	W17
T 18	15 42 18	26°54'59	5♈36	14° 0	18°39	5° 5	5°54	17° 9	14°26	16°41	28°44	29°D42	0° 1	7°19	22°59	T 18
F 19	15 46 15	27°52'45	18°58	15°45	19°52	5°38	6° 8	17°17	14°25	16°43	28°46	29°42	29♈58	7°25	23° 3	F 19
S 20	15 50 11	28°50'29	2♈1	17°28	21° 5	6°10	6°22	17°25	14°25	16°45	28°47	29°42	29°55	7°32	23° 7	S 20
S 21	15 54 8	29°48'12	14°45	19° 8	22°18	6°43	6°36	17°32	14°25	16°47	28°48	29°R42	29°52	7°39	23°12	S 21
M22	15 58 4	0♈45'53	27°11	20°44	23°31	7°16	6°50	17°40	14°D25	16°50	28°50	29°42	29°49	7°45	23°16	M22
T 23	16 2 1	1°43'33	9♈23	22°17	24°44	7°49	7° 4	17°47	14°25	16°52	28°51	29°42	29°46	7°52	23°20	T 23
W24	16 5 57	2°41'11	21°25	23°48	25°57	8°22	7°18	17°55	14°25	16°54	28°52	29°42	29°42	7°59	23°25	W24
T 25	16 9 54	3°38'48	3♈20	25°14	27°10	8°55	7°32	18° 2	14°25	16°56	28°54	29°D42	29°39	8° 6	23°29	T 25
F 26	16 13 51	4°36'23	15°13	26°38	28°23	9°28	7°46	18°10	14°25	16°58	28°55	29°42	29°36	8°12	23°33	F 26
S 27	16 17 47	5°33'57	27° 9	27°58	29°36	10° 1	8° 0	18°18	14°26	17° 0	28°57	29°42	29°33	8°19	23°38	S 27
S 28	16 21 44	6°31'29	9♈12	29°15	0♈48	10°35	8°14	18°25	14°26	17° 3	28°58	29°43	29°30	8°26	23°42	S 28
M29	16 25 40	7°29'00	21°27	0♈28	2° 1	11° 8	8°28	18°32	14°26	17° 5	28°59	29°44	29°27	8°33	23°46	M29
T 30	16 29 37	8°26'30	3♈55	1°38	3°14	11°41	8°42	18°40	14°27	17° 7	29° 1	29°44	29°23	8°39	23°50	T 30
W31	16 33 33	9♈23'59	16♈41	2♈44	4♈27	12♈15	8♈56	18♈47	14♈27	17♈ 9	29♈2	29♈45	29♈20	8♈46	23♈55	W31

Delta T = -4.03 sec

JUNE 1882

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 37 30	10♈21'27	29♈45	3♈47	5♈39	12♈49	9♈10	18♈55	14♈28	17♈11	29♈3	29°R45	29♈17	8♈53	23♈59	T 1
F 2	16 41 26	11°18'53	13♈7	4°46	6°52	13°22	9°24	19° 2	14°28	17°13	29° 5	29♈45	29°14	8°59	24° 3	F 2
S 3	16 45 23	12°16'19	26°46	5°41	8° 5	13°56	9°38	19° 9	14°29	17°15	29° 6	29°44	29°11	9° 6	24° 7	S 3
S 4	16 49 20	13°13'44	10♈40	6°32	9°17	14°30	9°52	19°17	14°29	17°17	29° 7	29°43	29° 7	9°13	24°12	S 4
M 5	16 53 16	14°11'08	24°45	7°20	10°30	15° 4	10° 6	19°24	14°30	17°19	29° 9	29°41	29° 4	9°20	24°16	M 5
T 6	16 57 13	15° 8'31	8♈59	8° 3	11°42	15°38	10°20	19°31	14°31	17°21	29°10	29°39	29° 1	9°26	24°20	T 6
W 7	17 1 9	16° 5'54	23°16	8°43	12°55	16°12	10°34	19°38	14°32	17°24	29°11	29°38	28°58	9°33	24°24	W 7
T 8	17 5 6	17° 3'16	7♈33	9°18	14° 7	16°46	10°48	19°46	14°33	17°26	29°12	29°37	28°55	9°40	24°28	T 8
F 9	17 9 2	18° 0'37	21°47	9°49	15°19	17°20	11° 2	19°53	14°33	17°28	29°14	29°D37	28°52	9°46	24°32	F 9
S 10	17 12 59	18°57'58	5♈56	10°16	16°32	17°54	11°16	20° 0	14°34	17°30	29°15	29°37	28°48	9°53	24°36	S 10
S 11	17 16 55	19°55'19	19°58	10°38	17°44	18°29	11°30	20° 7	14°35	17°32	29°16	29°38	28°45	10° 0	24°40	S 11
M12	17 20 52	20°52'39	3♈50	10°56	18°57	19° 3	11°44	20°14	14°37	17°34	29°18	29°40	28°42	10° 7	24°44	M12
T 13	17 24 49	21°49'59	17°33	11° 9	20° 9	19°37	11°57	20°21	14°38	17°35	29°19	29°41	28°39	10°13	24°48	T 13
W14	17 28 45	22°47'19	1♈4	11°17	21°21	20°12	12°11	20°28	14°39	17°37	29°20	29°R41	28°36	10°20	24°52	W14
T 15	17 32 42	23°44'38	14°21	11°R22	22°33	20°46	12°25	20°35	14°40	17°39	29°21	29°40	28°33	10°27	24°56	T 15
F 16	17 36 38	24°41'56	27°25	11°21	23°45	21°21	12°39	20°42	14°41	17°41	29°23	29°39	28°29	10°34	25° 0	F 16
S 17	17 40 35	25°39'14	10♈15	11°16	24°58	21°56	12°53	20°48	14°43	17°43	29°24	29°35	28°26	10°40	25° 4	S 17
S 18	17 44 31	26°36'32	22°50	11° 7	26°10	22°31	13° 7	20°55	14°44	17°45	29°25	29°31	28°23	10°47	25° 8	S 18
M19	17 48 28	27°33'48	5♈12	10°53	27°22	23° 5	13°20	21° 2	14°45	17°47	29°26	29°27	28°20	10°54	25°12	M19
T 20	17 52 25	28°31'04	17°22	10°36	28°34	23°40	13°34	21° 9	14°47	17°49	29°28	29°22	28°17	11° 0	25°16	T 20
W21	17 56 21	29°28'20	29°22	10°15	29°46	24°15	13°48	21°15	14°48	17°50	29°29	29°18	28°13	11° 7	25°20	W21
T 22	18 0 18	0♈25'35	11♈17	9°50	0♈58	24°50	14° 2	21°22	14°50	17°52	29°30	29°15	28°10	11°14	25°24	T 22
F 23	18 4 14	1°22'49	23° 9	9°22	2°10	25°25	14°15	21°28	14°52	17°54	29°31	29°14	28° 7	11°21	25°27	F 23
S 24	18 8 11	2°20'02	5♈4	8°52	3°21	26° 1	14°29	21°35	14°53	17°56	29°32	29°D13	28° 4	11°27	25°31	S 24
S 25	18 12 7	3°17'15	17° 7	8°19	4°33	26°36	14°42	21°41	14°55	17°57	29°34	29°14	28° 1	11°34	25°35	S 25
M26	18 16 4	4°14'28	29°21	7°45	5°45	27°11	14°56	21°48	14°57	17°59	29°35	29°16	27°58	11°41	25°38	M26
T 27	18 20 0	5°11'40	11♈52	7° 9	6°57	27°46	15°10	21°54	14°59	18° 1	29°36	29°17	27°54	11°47	25°42	T 27
W28	18 23 57	6° 8'52	24°43	6°33	8° 8	28°22	15°23	22° 0	15° 0	18° 2	29°37	29°R18	27°51	11°54	25°46	W28
T 29	18 27 53	7° 6'03	7♈58	5°58	9°20	28°57	15°37	22° 7	15° 2	18° 4	29°38	29°18	27°48	12° 1	25°49	T 29
F 30	18 31 50	8♈3'14	21♈36	5♈22	10♈31	29♈33	15♈50	22♈13	15♈ 4	18♈ 6	29♈39	29♈16	27♈45	12♈ 8	25♈53	F 30

Delta T = -4.05 sec

ASTRODIENST EPHEMERIS for the year 1882

geocentric

JULY 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 35 47	9°05'25	5°37'37	4°R49	11°L43	0°M 8	16°II 3	22°B 19	15°M 6	18°B 7	29°B 40	29°R13	27°M 42	12°M 14	25°B 56	S 1
S 2	18 39 43	9°57'36	19°56	4°B 17	12°54	0°44	16°17	22°25	15° 8	18° 9	29°41	29°M 7	27°39	12°21	26° 0	S 2
M 3	18 43 40	10°54'47	4°A 30	3°48	14° 6	1°20	16°30	22°31	15°10	18°10	29°42	29° 1	27°35	12°28	26° 3	M 3
T 4	18 47 36	11°51'58	19°10	3°22	15°17	1°55	16°43	22°37	15°13	18°12	29°43	28°55	27°32	12°34	26° 6	T 4
W 5	18 51 33	12°49'09	3°H 49	2°59	16°28	2°31	16°57	22°43	15°15	18°13	29°45	28°50	27°29	12°41	26°10	W 5
T 6	18 55 29	13°46'20	18°22	2°40	17°39	3° 7	17°10	22°49	15°17	18°15	29°46	28°45	27°26	12°48	26°13	T 6
F 7	18 59 26	14°43'32	2°V 43	2°25	18°51	3°43	17°23	22°55	15°19	18°16	29°47	28°43	27°23	12°55	26°16	F 7
S 8	19 3 23	15°40'44	16°50	2°15	20° 2	4°19	17°36	23° 0	15°21	18°18	29°48	28°D 42	27°19	13° 1	26°20	S 8
S 9	19 7 19	16°37'57	0°B 41	2°10	21°13	4°55	17°49	23° 6	15°24	18°19	29°49	28°43	27°16	13° 8	26°23	S 9
M10	19 11 16	17°35'10	14°17	2°D 10	22°24	5°31	18° 2	23°11	15°26	18°20	29°50	28°44	27°13	13°15	26°26	M10
T 11	19 15 12	18°32'24	27°39	2°15	23°35	6° 7	18°15	23°17	15°29	18°22	29°51	28°R 45	27°10	13°22	26°29	T 11
W12	19 19 9	19°29'38	10°II 47	2°26	24°46	6°43	18°28	23°22	15°31	18°23	29°51	28°44	27° 7	13°28	26°32	W12
T 13	19 23 5	20°26'53	23°42	2°41	25°57	7°19	18°41	23°28	15°34	18°24	29°52	28°41	27° 4	13°35	26°35	T 13
F 14	19 27 2	21°24'08	6°B 26	3° 2	27° 7	7°56	18°54	23°33	15°36	18°26	29°53	28°36	27° 0	13°42	26°38	F 14
S 15	19 30 58	22°21'24	19° 0	3°29	28°18	8°32	19° 6	23°38	15°39	18°27	29°54	28°29	26°57	13°48	26°41	S 15
S 16	19 34 55	23°18'40	1°L 22	4° 1	29°29	9° 8	19°19	23°43	15°41	18°28	29°55	28°20	26°54	13°55	26°44	S 16
M17	19 38 52	24°15'56	13°35	4°38	0°M 39	9°45	19°32	23°49	15°44	18°29	29°56	28°10	26°51	14° 2	26°47	M17
T 18	19 42 48	25°13'13	25°39	5°21	1°50	10°21	19°44	23°54	15°47	18°30	29°57	27°59	26°48	14° 9	26°50	T 18
W19	19 46 45	26°10'30	7°M 36	6° 9	3° 0	10°58	19°57	23°58	15°49	18°31	29°58	27°50	26°45	14°15	26°52	W19
T 20	19 50 41	27° 7'47	19°28	7° 3	4°11	11°35	20° 9	24° 3	15°52	18°32	29°58	27°42	26°41	14°22	26°55	T 20
F 21	19 54 38	28° 5'04	1°A 19	8° 2	5°21	12°11	20°22	24° 8	15°55	18°33	29°59	27°36	26°38	14°29	26°58	F 21
S 22	19 58 34	29° 2'22	13°12	9° 6	6°31	12°48	20°34	24°13	15°58	18°35	0°II 0	27°33	26°35	14°35	27° 0	S 22
S 23	20 2 31	29°59'41	25°12	10°14	7°42	13°25	20°46	24°17	16° 1	18°36	0° 1	27°D 31	26°32	14°42	27° 3	S 23
M24	20 6 27	0°L 56'59	7°M 24	11°28	8°52	14° 2	20°59	24°22	16° 4	18°36	0° 2	27°31	26°29	14°49	27° 5	M24
T 25	20 10 24	1°54'19	19°53	12°47	10° 2	14°39	21°11	24°26	16° 6	18°37	0° 2	27°32	26°25	14°56	27° 8	T 25
W26	20 14 21	2°51'38	2°A 43	14°10	11°12	15°16	21°23	24°31	16° 9	18°38	0° 3	27°R 32	26°22	15° 2	27°10	W26
T 27	20 18 17	3°48'58	16° 0	15°38	12°22	15°53	21°35	24°35	16°12	18°39	0° 4	27°31	26°19	15° 9	27°12	T 27
F 28	20 22 14	4°46'19	29°44	17°11	13°31	16°30	21°47	24°39	16°16	18°40	0° 4	27°27	26°16	15°16	27°15	F 28
S 29	20 26 10	5°43'40	13°B 57	18°47	14°41	17° 7	21°59	24°43	16°19	18°41	0° 5	27°21	26°13	15°22	27°17	S 29
S 30	20 30 7	6°41'02	28°33	20°28	15°51	17°44	22°10	24°47	16°22	18°42	0° 6	27°13	26°10	15°29	27°19	S 30
M31	20 34 3	7°L 38'25	13°A 28	22°B 12	17°M 0	18°M 21	22°II 22	24°B 51	16°M 25	18°B 42	0°II 6	27°M 3	26°M 6	15°M 36	27°B 21	M31

Delta T = -4.07 sec

AUGUST 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 38 0	8°L 35'48	28°A 32	24°B 0	18°M 10	18°M 58	22°II 34	24°B 55	16°M 28	18°B 43	0°II 7	26°R 53	26°M 3	15°M 43	27°B 23	T 1
W 2	20 41 56	9°33'13	13°H 35	25°51	19°19	19°36	22°45	24°59	16°31	18°44	0° 8	26°M 44	26° 0	15°49	27°25	W 2
T 3	20 45 53	10°30'39	27°45	27°45	20°28	20°13	22°57	25° 3	16°34	18°44	0° 8	26°36	25°57	15°56	27°27	T 3
F 4	20 49 50	11°28'05	13°V 3	29°41	21°38	20°50	23° 8	25° 6	16°38	18°45	0° 9	26°31	25°54	16° 3	27°29	F 4
S 5	20 53 46	12°25'34	27°17	1°L 39	22°47	21°28	23°19	25°10	16°41	18°46	0° 9	26°29	25°50	16° 9	27°31	S 5
S 6	20 57 43	13°23'03	11°B 9	3°39	23°56	22° 5	23°31	25°13	16°44	18°46	0°10	26°D 28	25°47	16°16	27°33	S 6
M 7	21 1 39	14°20'34	24°39	5°40	25° 5	22°43	23°42	25°17	16°47	18°47	0°10	26°R 28	25°44	16°23	27°34	M 7
T 8	21 5 36	15°18'06	7°II 49	7°42	26°13	23°20	23°53	25°20	16°51	18°47	0°11	26°28	25°41	16°30	27°36	T 8
W 9	21 9 32	16°15'40	20°42	9°45	27°22	23°58	24° 4	25°23	16°54	18°48	0°11	26°26	25°38	16°36	27°38	W 9
T 10	21 13 29	17°13'15	3°B 22	11°49	28°31	24°36	24°15	25°26	16°58	18°48	0°12	26°22	25°35	16°43	27°39	T 10
F 11	21 17 25	18°10'51	15°50	13°52	29°39	25°14	24°25	25°29	17° 1	18°48	0°12	26°14	25°31	16°50	27°41	F 11
S 12	21 21 22	19° 8'29	28° 8	15°55	0°A 48	25°52	24°36	25°32	17° 4	18°49	0°12	26° 4	25°28	16°56	27°42	S 12
S 13	21 25 19	20° 6'08	10°L 18	17°58	1°56	26°29	24°47	25°35	17° 8	18°49	0°13	25°52	25°25	17° 3	27°44	S 13
M14	21 29 15	21° 3'48	22°22	20° 0	3° 4	27° 7	24°57	25°37	17°11	18°49	0°13	25°38	25°22	17°10	27°45	M14
T 15	21 33 12	22° 1'30	4°M 20	22° 1	4°12	27°45	25° 7	25°40	17°15	18°50	0°13	25°24	25°19	17°17	27°46	T 15
W16	21 37 8	22°59'12	16°13	24° 2	5°20	28°23	25°18	25°42	17°18	18°50	0°14	25°11	25°16	17°23	27°47	W16
T 17	21 41 5	23°56'56	28° 3	26° 1	6°28	29° 2	25°28	25°45	17°22	18°50	0°14	25° 0	25°12	17°30	27°48	T 17
F 18	21 45 1	24°54'41	9°A 53	28° 0	7°36	29°40	25°38	25°47	17°25	18°50	0°14	24°52	25° 9	17°37	27°50	F 18
S 19	21 48 58	25°52'28	21°45	29°57	8°43	0°A 18	25°48	25°49	17°29	18°50	0°15	24°46	25° 6	17°43	27°51	S 19
S 20	21 52 54	26°50'15	3°M 44	1°M 53	9°51	0°56	25°58	25°51	17°33	18°50	0°15	24°43	25° 3	17°50	27°51	S 20
M21	21 56 51	27°48'04	15°53	3°47	10°58	1°35	26° 7	25°53	17°36	18°51	0°15	24°42	25° 0	17°57	27°52	M21
T 22	22 0 47	28°45'54	28°19	5°40	12° 6	2°13	26°17	25°55	17°40	18°51	0°15	24°42	24°56	18° 4	27°53	T 22
W23	22 4 44	29°43'45	11°A 6	7°32	13°13	2°51	26°27	25°57	17°43	18°51	0°15	24°41	24°53	18°10	27°54	W23
T 24	22 8 41	0°M 41'37	24°18	9°23	14°20	3°30	26°36	25°58	17°47	18°51	0°16	24°40	24°50	18°17	27°55	T 24
F 25	22 12 37	1°39'30	7°B 59	11°12	15°26	4° 8	26°45	26° 0	17°51	18°50	0°16	24°36	24°47	18°24	27°55	F 25
S 26	22 16 34	2°37'25	22°10	13° 0	16°33	4°47	26°54	26° 1	17°54	18°50	0°16	24°30	24°44	18°30	27°56	S 26
S 27	22 20 30	3°35'21	6°A 50	14°47	17°39	5°26	27° 4	26° 3	17°58	18°50	0°16	24°21	24°41	18°37	27°56	S 27
M28	22 24 27	4°33'19	21°52	16°32	18°46	6° 4	27°12	26° 4	18° 2	18°50	0°16	24°11	24°37	18°44	27°57	M28
T 29	22 28 23	5°31'18	7°H 8	18°16	19°52	6°43	27°21	26° 5	18° 5	18°50	0°16	24° 0	24°34	18°51	27°57	T 29
W30	22 32 20	6°29'18	22°26	19°59	20°58	7°22	27°30	26° 6	18° 9	18°50	0°R 16	23°51	24°31	18°57	27°57	W30
T 31	22 36 16	7°M 27'21	7°V 35	21°M 41	22°A 4	8°A 1	27°II 38	26°B 7	18°M 13	18°B 49	0°II 16	23°M 43	24°M 28	19°M 4	27°B 58	T 31

Delta T = -4.09 sec

ASTRODIENST EPHEMERIS for the year 1882

geocentric

SEPTEMBER 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 40 13	8 ^h 25'25"	22 ^h 27'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	23 ^h 21'	F 1
S 2	22 44 10	9°23'31"	6 ^h 54'	25° 0'	24°15'	9°19'	27°55'	26° 9'	18°20'	18°49'	0 ^h 16'	23 ^h 34'	24°22'	19°17'	27°58'	S 2
S 3	22 48 6	10°21'39"	20°54'	26°38'	25°20'	9°58'	28° 3'	26° 9'	18°24'	18°48'	0°16'	23°D33	24°18'	19°24'	27°R58	S 3
M 4	22 52 3	11°19'49"	4 ^h 12'	28°14'	26°25'	10°37'	28°11'	26°10'	18°28'	18°48'	0°16'	23°33'	24°15'	19°31'	27°58'	M 4
T 5	22 55 59	12°18'01"	17°37'	29°50'	27°30'	11°16'	28°19'	26°10'	18°32'	18°47'	0°16'	23°R33	24°12'	19°37'	27°58'	T 5
W 6	22 59 56	13°16'16"	0 ^h 25'	1 ^h 24'	28°35'	11°55'	28°27'	26°10'	18°35'	18°47'	0°16'	23°32'	24° 9'	19°44'	27°58'	W 6
T 7	23 3 52	14°14'32"	12°57'	2°57'	29°39'	12°34'	28°35'	26°11'	18°39'	18°47'	0°15'	23°29'	24° 6'	19°51'	27°57'	T 7
F 8	23 7 49	15°12'50"	25°15'	4°29'	0 ^h 44'	13°13'	28°42'	26°R11	18°43'	18°46'	0°15'	23°23'	24° 2'	19°58'	27°57'	F 8
S 9	23 11 45	16°11'10"	7 ^h 23'	6° 0'	1°48'	13°53'	28°49'	26°11'	18°47'	18°45'	0°15'	23°14'	23°59'	20° 4'	27°57'	S 9
S 10	23 15 42	17° 9'32"	19°24'	7°29'	2°52'	14°32'	28°57'	26°10'	18°51'	18°45'	0°15'	23° 3'	23°56'	20°11'	27°56'	S 10
M 11	23 19 39	18° 7'56"	1 ^h 20'	8°58'	3°56'	15°12'	29° 4'	26°10'	18°54'	18°44'	0°15'	22°51'	23°53'	20°18'	27°56'	M 11
T 12	23 23 35	19° 6'22"	13°13'	10°25'	4°59'	15°51'	29°11'	26°10'	18°58'	18°44'	0°14'	22°39'	23°50'	20°24'	27°55'	T 12
W 13	23 27 32	20° 4'50"	25° 4'	11°51'	6° 2'	16°31'	29°17'	26° 9'	19° 2'	18°43'	0°14'	22°27'	23°47'	20°31'	27°55'	W 13
T 14	23 31 28	21° 3'20"	6 ^h 55'	13°16'	7° 5'	17°10'	29°24'	26° 9'	19° 6'	18°42'	0°14'	22°17'	23°43'	20°38'	27°54'	T 14
F 15	23 35 25	22° 1'52"	18°47'	14°39'	8° 8'	17°50'	29°30'	26° 8'	19° 9'	18°41'	0°13'	22°10'	23°40'	20°45'	27°53'	F 15
S 16	23 39 21	23° 0'25"	0 ^h 43'	16° 1'	9°10'	18°30'	29°37'	26° 7'	19°13'	18°41'	0°13'	22° 5'	23°37'	20°51'	27°52'	S 16
S 17	23 43 18	23°59'00"	12°45'	17°22'	10°13'	19°10'	29°43'	26° 6'	19°17'	18°40'	0°13'	22° 3'	23°34'	20°58'	27°52'	S 17
M 18	23 47 14	24°57'37"	24°58'	18°42'	11°15'	19°49'	29°49'	26° 5'	19°21'	18°39'	0°12'	22°D 2	23°31'	21° 5'	27°51'	M 18
T 19	23 51 11	25°56'16"	7 ^h 24'	20° 0'	12°16'	20°29'	29°54'	26° 4'	19°25'	18°38'	0°12'	22° 3'	23°27'	21°11'	27°50'	T 19
W 20	23 55 8	26°54'56"	20° 9'	21°17'	13°18'	21° 9'	0 ^h 50'	26° 3'	19°28'	18°37'	0°12'	22° 4'	23°24'	21°18'	27°49'	W 20
T 21	23 59 4	27°53'38"	3 ^h 16'	22°32'	14°19'	21°49'	0° 6'	26° 1'	19°32'	18°36'	0°11'	22°R 4	23°21'	21°25'	27°48'	T 21
F 22	0 3 1	28°52'22"	16°50'	23°46'	15°19'	22°29'	0°11'	26° 0'	19°36'	18°35'	0°11'	22° 2'	23°18'	21°32'	27°46'	F 22
S 23	0 6 57	29°51'07"	0 ^h 51'	24°58'	16°20'	23° 9'	0°16'	25°58'	19°40'	18°35'	0°10'	21°59'	23°15'	21°38'	27°45'	S 23
S 24	0 10 54	0 ^h 49'54"	15°21'	26° 9'	17°20'	23°50'	0°21'	25°57'	19°43'	18°34'	0°10'	21°53'	23°12'	21°45'	27°44'	S 24
M 25	0 14 50	1°48'43"	0 ^h 14'	27°17'	18°19'	24°30'	0°26'	25°55'	19°47'	18°33'	0° 9'	21°46'	23° 8'	21°52'	27°42'	M 25
T 26	0 18 47	2°47'33"	15°24'	28°23'	19°19'	25°10'	0°30'	25°53'	19°51'	18°31'	0° 9'	21°39'	23° 5'	21°58'	27°41'	T 26
W 27	0 22 43	3°46'26"	0 ^h 42'	29°28'	20°18'	25°50'	0°35'	25°51'	19°54'	18°30'	0° 8'	21°32'	23° 2'	22° 5'	27°40'	W 27
T 28	0 26 40	4°45'20"	15°55'	0 ^h 30'	21°16'	26°31'	0°39'	25°49'	19°58'	18°29'	0° 8'	21°26'	22°59'	22°12'	27°38'	T 28
F 29	0 30 36	5°44'17"	0 ^h 55'	1°29'	22°14'	27°11'	0°43'	25°47'	20° 2'	18°28'	0° 7'	21°22'	22°56'	22°18'	27°36'	F 29
S 30	0 34 33	6 ^h 43'15"	15 ^h 32'	2 ^h 26'	23 ^h 12'	27 ^h 52'	0 ^h 47'	25 ^h 45'	20 ^h 5'	18 ^h 27'	0 ^h 11'	21°D21	22 ^h 53'	22 ^h 25'	27 ^h 35'	S 30

Delta T = -4.12 sec

OCTOBER 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 38 30	7 ^h 42'16"	29 ^h 43'	3 ^h 12'	24 ^h 9'	28 ^h 32'	0 ^h 51'	25°R42	20 ^h 9'	18°R26	0°R 6	21 ^h 21'	22 ^h 49'	22 ^h 32'	27°R33	S 1
M 2	0 42 26	8°41'20"	13 ^h 12'	4°11'	25° 6'	29°13'	0°54'	25°B40	20°13'	18°B25	0°11'	21°22'	22°46'	22°39'	27°B31	M 2
T 3	0 46 23	9°40'25"	26°41'	4°58'	26° 2'	29°53'	0°58'	25°37'	20°16'	18°23'	0° 5'	21°23'	22°43'	22°45'	27°29'	T 3
W 4	0 50 19	10°39'33"	9 ^h 32'	5°42'	26°58'	0 ^h 34'	1° 1'	25°35'	20°20'	18°22'	0° 4'	21°R24	22°40'	22°52'	27°28'	W 4
T 5	0 54 16	11°38'44"	22° 4'	6°22'	27°54'	1°15'	1° 4'	25°32'	20°24'	18°21'	0° 3'	21°23'	22°37'	22°59'	27°26'	T 5
F 6	0 58 12	12°37'56"	4 ^h 20'	6°57'	28°49'	1°56'	1° 7'	25°29'	20°27'	18°20'	0° 2'	21°21'	22°33'	23° 5'	27°24'	F 6
S 7	1 2 9	13°37'11"	16°24'	7°27'	29°43'	2°37'	1° 9'	25°26'	20°31'	18°18'	0° 2'	21°17'	22°30'	23°12'	27°22'	S 7
S 8	1 6 5	14°36'28"	28°20'	7°52'	0 ^h 37'	3°18'	1°12'	25°23'	20°34'	18°17'	0° 1'	21°12'	22°27'	23°19'	27°19'	S 8
M 9	1 10 2	15°35'47"	10 ^h 12'	8°12'	1°30'	3°59'	1°14'	25°20'	20°38'	18°16'	0° 0'	21° 5'	22°24'	23°25'	27°17'	M 9
T 10	1 13 59	16°35'09"	22° 3'	8°25'	2°22'	4°40'	1°16'	25°17'	20°41'	18°14'	29°B59	20°58'	22°21'	23°32'	27°15'	T 10
W 11	1 17 55	17°34'32"	3 ^h 55'	8°R31	3°14'	5°21'	1°18'	25°14'	20°45'	18°13'	29°59	20°52'	22°18'	23°39'	27°13'	W 11
T 12	1 21 52	18°33'58"	15°49'	8°30'	4° 6'	6° 2'	1°19'	25°11'	20°48'	18°12'	29°58	20°47'	22°14'	23°46'	27°10'	T 12
F 13	1 25 48	19°33'26"	27°48'	8°22'	4°56'	6°43'	1°21'	25° 7'	20°52'	18°10'	29°57	20°43'	22°11'	23°52'	27° 8'	F 13
S 14	1 29 45	20°32'56"	9 ^h 52'	8° 5'	5°46'	7°25'	1°22'	25° 4'	20°55'	18° 9'	29°56	20°41'	22° 8'	23°59'	27° 6'	S 14
S 15	1 33 41	21°32'28"	22° 5'	7°40'	6°36'	8° 6'	1°23'	25° 0'	20°59'	18° 7'	29°55	20°D41	22° 5'	24° 6'	27° 3'	S 15
M 16	1 37 38	22°32'01"	4 ^h 28'	7° 6'	7°24'	8°47'	1°24'	24°56'	21° 2'	18° 6'	29°55	20°41'	22° 2'	24°12'	27° 1'	M 16
T 17	1 41 34	23°31'37"	17° 4'	6°24'	8°12'	9°29'	1°25'	24°53'	21° 5'	18° 4'	29°54	20°43'	21°59'	24°19'	26°58'	T 17
W 18	1 45 31	24°31'14"	29°55'	5°33'	8°59'	10°10'	1°25'	24°49'	21° 9'	18° 3'	29°53	20°44'	21°55'	24°26'	26°56'	W 18
T 19	1 49 28	25°30'54"	13 ^h 34'	4°35'	9°45'	10°52'	1°25'	24°45'	21°12'	18° 1'	29°52	20°46'	21°52'	24°32'	26°53'	T 19
F 20	1 53 24	26°30'35"	26°33'	3°30'	10°30'	11°33'	1°R25	24°41'	21°15'	18° 0'	29°51	20°R46	21°49'	24°39'	26°50'	F 20
S 21	1 57 21	27°30'17"	10 ^h 25'	2°20'	11°14'	12°15'	1°25'	24°37'	21°19'	17°58'	29°50	20°46'	21°46'	24°46'	26°48'	S 21
S 22	2 1 17	28°30'01"	24°39'	1° 6'	11°57'	12°57'	1°25'	24°33'	21°22'	17°57'	29°49	20°44'	21°43'	24°53'	26°45'	S 22
M 23	2 5 14	29°29'47"	9 ^h 13'	29°B50	12°39'	13°39'	1°24'	24°29'	21°25'	17°55'	29°48	20°42'	21°39'	24°59'	26°42'	M 23
T 24	2 9 10	0 ^h 29'35"	24° 3'	28°35'	13°20'	14°20'	1°24'	24°25'	21°28'	17°53'	29°47	20°39'	21°36'	25° 6'	26°39'	T 24
W 25	2 13 7	1°29'24"	9 ^h 3'	27°23'	14° 0'	15° 2'	1°23'	24°20'	21°31'	17°52'	29°46	20°36'	21°33'	25°13'	26°37'	W 25
T 26	2 17 3	2°29'15"	24° 3'	26°15'	14°39'	15°44'	1°22'	24°16'	21°34'	17°50'	29°45	20°34'	21°30'	25°19'	26°34'	T 26
F 27	2 21 0	3°29'08"	8 ^h 55'	25°15'	15°16'	16°26'	1°20'	24°12'	21°37'	17°49'	29°44	20°33'	21°27'	25°26'	26°31'	F 27
S 28	2 24 57	4°29'03"	23°31'	24°24'	15°53'	17° 8'	1°19'	24° 7'	21°40'	17°47'	29°43	20°D33	21°24'	25°33'	26°28'	S 28
S 29	2 28 53	5°29'00"	7 ^h 14'	23°42'	16°28'	17°51'	1°17'	24° 3'	21°43'	17°45'	29°42	20°34'	21°20'	25°39'	26°25'	S 29
M 30	2 32 50	6°28'59"	21°34'	23°12'	17° 1'	18°33'	1°15'	23°58'	21°46'	17°44'	29°41	20°35'	21°17'	25°46'	26°22'	M 30
T 31	2 36 46	7 ^h 29'01"	4 ^h 57'	22 ^h 54'	17 ^h 34'	19 ^h 15'	1 ^h 53'	23 ^h 54'	21 ^h 49'	17 ^h 42'	29 ^h 40	20 ^h 36'	21 ^h 14'	25 ^h 53'	26 ^h 19'	T 31

Delta T = -4.14 sec

ASTRODIENST EPHEMERIS for the year 1882
geocentric

NOVEMBER 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 40 43	8♉29°04	17♊56	22°D46	18♉4	19♉57	1°R10	23°R49	21♉52	17°R40	29°R39	20♉37	21♉11	26°R0	26°R16	W 1
T 2	2 44 39	9°29'10	0♉32	22♉51	18°34	20°40	1♊8	23♉45	21°55	17♉39	29♉38	20°37	21°8	26°6	26♉13	T 2
F 3	2 48 36	10°29'17	12°50	23°6	19°1	21°22	1°5	23°40	21°58	17°37	29°37	20°R38	21°4	26°13	26°10	F 3
S 4	2 52 32	11°29'27	24°55	23°31	19°27	22°4	1°2	23°35	22°1	17°35	29°36	20°37	21°1	26°20	26°6	S 4
S 5	2 56 29	12°29'38	6♉50	24°5	19°52	22°47	0°59	23°30	22°3	17°34	29°35	20°37	20°58	26°26	26°3	S 5
M 6	3 0 26	13°29'52	18°41	24°48	20°14	23°30	0°56	23°26	22°6	17°32	29°34	20°36	20°55	26°33	26°0	M 6
T 7	3 4 22	14°30'08	0♉32	25°38	20°35	24°12	0°52	23°21	22°9	17°30	29°33	20°35	20°52	26°40	25°57	T 7
W 8	3 8 19	15°30'25	12°25	26°35	20°54	24°55	0°49	23°16	22°11	17°29	29°32	20°34	20°49	26°46	25°54	W 8
T 9	3 12 15	16°30'45	24°25	27°38	21°11	25°38	0°45	23°11	22°14	17°27	29°31	20°33	20°45	26°53	25°50	T 9
F 10	3 16 12	17°31'06	6♉33	28°46	21°26	26°20	0°41	23°6	22°17	17°25	29°30	20°33	20°42	27°0	25°47	F 10
S 11	3 20 8	18°31'29	18°50	29°58	21°39	27°3	0°36	23°2	22°19	17°23	29°28	20°D33	20°39	27°7	25°44	S 11
S 12	3 24 5	19°31'54	1♉20	1♉14	21°50	27°46	0°32	22°57	22°22	17°22	29°27	20°33	20°36	27°13	25°41	S 12
M13	3 28 1	20°32'21	14°1	2°34	21°58	28°29	0°27	22°52	22°24	17°20	29°26	20°R33	20°33	27°20	25°37	M13
T 14	3 31 58	21°32'49	26°56	3°55	22°5	29°12	0°22	22°47	22°26	17°18	29°25	20°33	20°30	27°27	25°34	T 14
W15	3 35 55	22°33'18	10♉4	5°20	22°9	29°55	0°17	22°42	22°29	17°17	29°24	20°33	20°26	27°33	25°31	W15
T 16	3 39 51	23°33'49	23°26	6°46	22°R10	0♉38	0°12	22°37	22°31	17°15	29°23	20°32	20°23	27°40	25°28	T 16
F 17	3 43 48	24°34'21	7♉2	8°13	22°10	1°22	0°7	22°32	22°33	17°13	29°22	20°32	20°20	27°47	25°24	F 17
S 18	3 47 44	25°34'54	20°53	9°42	22°7	2°5	0°2	22°27	22°35	17°12	29°21	20°D32	20°17	27°53	25°21	S 18
S 19	3 51 41	26°35'29	4♉56	11°12	22°1	2°48	29°II56	22°23	22°38	17°10	29°20	20°32	20°14	28°0	25°18	S 19
M20	3 55 37	27°36'04	19°12	12°43	21°53	3°31	29°50	22°18	22°40	17°8	29°18	20°32	20°10	28°7	25°14	M20
T 21	3 59 34	28°36'41	3°V38	14°14	21°42	4°15	29°44	22°13	22°42	17°7	29°17	20°33	20°7	28°13	25°11	T 21
W22	4 3 30	29°37'19	18°10	15°46	21°29	4°58	29°38	22°8	22°44	17°5	29°16	20°34	20°4	28°20	25°8	W22
T 23	4 7 27	0♉37'58	2♉43	17°19	21°14	5°42	29°32	22°3	22°46	17°3	29°15	20°35	20°1	28°27	25°5	T 23
F 24	4 11 24	1°38'39	17°13	18°52	20°56	6°25	29°26	21°58	22°48	17°2	29°14	20°R35	19°58	28°34	25°1	F 24
S 25	4 15 20	2°39'20	1II32	20°25	20°35	7°9	29°19	21°54	22°50	17°0	29°13	20°35	19°55	28°40	24°58	S 25
S 26	4 19 17	3°40'03	15°36	21°58	20°13	7°53	29°12	21°49	22°51	16°59	29°12	20°34	19°51	28°47	24°55	S 26
M27	4 23 13	4°40'48	29°21	23°32	19°48	8°36	29°6	21°44	22°53	16°57	29°11	20°32	19°48	28°54	24°52	M27
T 28	4 27 10	5°41'34	12♉45	25°6	19°21	9°20	28°59	21°40	22°55	16°55	29°9	20°30	19°45	29°0	24°48	T 28
W29	4 31 6	6°42'21	25°46	26°39	18°53	10°4	28°52	21°35	22°57	16°54	29°8	20°28	19°42	29°7	24°45	W29
T 30	4 35 3	7♉43'09	8♉27	28♉13	18♉23	10♉48	28II45	21♉30	22♉58	16♉52	29♉7	20♉26	19♉39	29♉14	24♉42	T 30

Delta T = -4.16 sec

DECEMBER 1882

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 38 59	8♉43'59	20♉48	29♉47	17°R51	11♉32	28°R37	21°R26	23°R0	16°R51	29°R6	20°R24	19♉36	29°R20	24°R39	F 1
S 2	4 42 56	9°44'50	2♉55	1♉21	17♉18	12°16	28II30	21♉21	23°1	16♉49	29♉5	20♉23	19°32	29°27	24♉36	S 2
S 3	4 46 53	10°45'43	14°52	2°55	16°43	13°0	28°23	21°17	23°3	16°48	29°4	20°D23	19°29	29°34	24°32	S 3
M 4	4 50 49	11°46'37	26°43	4°28	16°8	13°44	28°15	21°12	23°4	16°46	29°3	20°23	19°26	29°40	24°29	M 4
T 5	4 54 46	12°47'32	8♉34	6°2	15°32	14°28	28°8	21°8	23°6	16°45	29°2	20°25	19°23	29°47	24°26	T 5
W 6	4 58 42	13°48'29	20°29	7°36	14°56	15°12	28°0	21°4	23°7	16°43	29°1	20°27	19°20	29°54	24°23	W 6
T 7	5 2 39	14°49'27	2♉32	9°10	14°20	15°56	27°52	20°59	23°8	16°42	28°59	20°28	19°16	0♉1	24°20	T 7
F 8	5 6 35	15°50'25	14°47	10°44	13°43	16°41	27°44	20°55	23°9	16°40	28°58	20°R29	19°13	0°7	24°17	F 8
S 9	5 10 32	16°51'25	27°17	12°18	13°7	17°25	27°36	20°51	23°10	16°39	28°57	20°29	19°10	0°14	24°14	S 9
S 10	5 14 28	17°52'27	10♉4	13°52	12°32	18°9	27°29	20°47	23°12	16°37	28°56	20°28	19°7	0°21	24°11	S 10
M11	5 18 25	18°53'28	23°7	15°26	11°57	18°54	27°21	20°43	23°13	16°36	28°55	20°25	19°4	0°27	24°8	M11
T 12	5 22 22	19°54'31	6♉27	17°0	11°24	19°38	27°13	20°39	23°14	16°35	28°54	20°21	19°1	0°34	24°5	T 12
W13	5 26 18	20°55'35	20°2	18°34	10°52	20°23	27°4	20°35	23°14	16°33	28°53	20°16	18°57	0°41	24°2	W13
T 14	5 30 15	21°56'39	3♉48	20°9	10°21	21°7	26°56	20°31	23°15	16°32	28°52	20°11	18°54	0°47	24°0	T 14
F 15	5 34 11	22°57'43	17°44	21°43	9°52	21°52	26°48	20°28	23°16	16°31	28°51	20°6	18°51	0°54	23°57	F 15
S 16	5 38 8	23°58'48	1♉47	23°18	9°24	22°37	26°40	20°24	23°17	16°29	28°50	20°3	18°48	1°1	23°54	S 16
S 17	5 42 4	24°59'53	15°53	24°52	8°59	23°22	26°32	20°20	23°18	16°28	28°49	20°1	18°45	1°7	23°51	S 17
M18	5 46 1	26°0'58	0°V2	26°27	8°36	24°6	26°24	20°17	23°18	16°27	28°48	20°D1	18°42	1°14	23°49	M18
T 19	5 49 57	27°2'04	14°11	28°2	8°15	24°51	26°16	20°13	23°19	16°26	28°47	20°2	18°38	1°21	23°46	T 19
W20	5 53 54	28°3'09	28°18	29°37	7°56	25°36	26°7	20°10	23°19	16°25	28°46	20°3	18°35	1°28	23°44	W20
T 21	5 57 51	29°4'16	12♉23	1♉13	7°39	26°21	25°59	20°7	23°20	16°23	28°45	20°4	18°32	1°34	23°41	T 21
F 22	6 1 47	0♉5'22	26°23	2°48	7°25	27°6	25°51	20°4	23°20	16°22	28°44	20°R4	18°29	1°41	23°39	F 22
S 23	6 5 44	1°6'28	10II15	4°24	7°14	27°51	25°43	20°1	23°21	16°21	28°43	20°3	18°26	1°48	23°36	S 23
S 24	6 9 40	2°7'35	23°57	6°0	7°5	28°36	25°35	19°58	23°21	16°20	28°42	19°59	18°22	1°54	23°34	S 24
M25	6 13 37	3°8'42	7♉26	7°36	6°58	29°21	25°27	19°55	23°21	16°19	28°41	19°53	18°19	2°1	23°31	M25
T 26	6 17 33	4°9'50	20°39	9°13	6°54	0♉6	25°19	19°52	23°21	16°18	28°40	19°45	18°16	2°8	23°29	T 26
W27	6 21 30	5°10'58	3♉34	10°50	6°D53	0°51	25°11	19°49	23°21	16°17	28°40	19°37	18°13	2°14	23°27	W27
T 28	6 25 26	6°12'06	16°13	12°27	6°54	1°37	25°3	19°47	23°22	16°16	28°39	19°28	18°10	2°21	23°25	T 28
F 29	6 29 23	7°13'14	28°34	14°4	6°57	2°22	24°55	19°44	23°R22	16°15	28°38	19°20	18°7	2°28	23°22	F 29
S 30	6 33 20	8°14'23	10♉42	15°41	7°3	3°7	24°48	19°42	23°22	16°14	28°37	19°15	18°3	2°34	23°20	S 30
S 31	6 37 16	9♉15'32	22♉39	17♉19	7♉11	3♉53	24II40	19♉39	23♉21	16♉13	28♉36	19♉11	18♉0	2♉41	23♉18	S 31

Delta T = -4.18 sec