



Astrodienst Ephemeris Tables for the year 1893

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 1893

geocentric

JANUARY 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	6 43 28	10°35'12"	19°11'19"	18°27'9"	11°27'21"	2°38'38"	15°50'50"	12°26'26"	9°53'53"	9°R 5	8°R16	5°R51	4°R30	19°M35	3°R46	S 1
M 2	6 47 25	11°52'35"	4°58'5	19°10'10"	12°36'36"	3°18'18"	15°55'55"	12°28'28"	9°55'55"	9°II 4	8°II15	5°R42	4°27'27"	19°41'41"	3°M45	M 2
T 3	6 51 21	12°53'43"	18°43'43"	20°15'15"	13°50'50"	3°57'57"	16°0'0"	12°30'30"	9°57'57"	9°3'3'	8°14'14"	5°32'32"	4°24'24"	19°48'48"	3°43'43"	T 3
W 4	6 55 18	13°54'51"	3°12'4	21°22'22"	15°5'5"	4°36'36"	16°5'5"	12°32'32"	9°59'59"	9°1'1'	8°13'13"	5°20'20"	4°21'21"	19°54'54"	3°41'41"	W 4
T 5	6 59 14	14°56'00"	17°2'2	22°32'32"	16°19'19"	5°16'16"	16°10'10"	12°34'34"	10°1'1'	9°0'0"	8°12'12"	5°9'9"	4°18'18"	20°1'1'	3°39'39"	T 5
F 6	7 3 11	15°57'08"	0°M35	23°44'44"	17°34'34"	5°55'55"	16°15'15"	12°36'36"	10°3'3'	8°59'59"	8°11'11"	5°0'0"	4°14'14"	20°8'8"	3°37'37"	F 6
S 7	7 7 7	16°58'16"	13°40'40"	24°58'58"	18°48'48"	6°35'35"	16°21'21"	12°37'37"	10°5'5'	8°58'58"	8°11'11"	4°53'53"	4°11'11"	20°14'14"	3°35'35"	S 7
S 8	7 11 4	17°59'24"	26°21'21"	26°13'13"	20°3'3'	7°14'14"	16°26'26"	12°39'39"	10°7'7'	8°56'56"	8°10'10"	4°48'48"	4°8'8"	20°21'21"	3°32'32"	S 8
M 9	7 15 1	19°0'32"	8°40'40"	27°30'30"	21°18'18"	7°54'54"	16°32'32"	12°40'40"	10°9'9'	8°55'55"	8°9'9"	4°46'46"	4°5'5'	20°28'28"	3°30'30"	M 9
T 10	7 18 57	20°1'40"	20°43'43"	28°49'49"	22°32'32"	8°33'33"	16°38'38"	12°41'41"	10°11'11"	8°54'54"	8°8'8"	4°D46	4°2'2'	20°34'34"	3°27'27"	T 10
W11	7 22 54	21°2'49"	2°M36	0°3'9"	23°47'47"	9°13'13"	16°44'44"	12°43'43"	10°13'13"	8°53'53"	8°7'7"	4°R46	3°58'58"	20°41'41"	3°25'25"	W11
T 12	7 26 50	22°3'57"	14°23'23"	1°30'30"	25°1'1'	9°52'52"	16°51'51"	12°44'44"	10°15'15"	8°52'52"	8°6'6"	4°46'46"	3°55'55"	20°48'48"	3°22'22"	T 12
F 13	7 30 47	23°5'05"	26°10'10"	2°52'52"	26°16'16"	10°32'32"	16°57'57"	12°45'45"	10°17'17"	8°50'50"	8°6'6"	4°44'44"	3°52'52"	20°54'54"	3°19'19"	F 13
S 14	7 34 43	24°6'12"	8°27'2	4°15'15"	27°31'31"	11°12'12"	17°4'4"	12°45'45"	10°18'18"	8°49'49"	8°5'5'	4°39'39"	3°49'49"	21°1'1'	3°16'16"	S 14
S 15	7 38 40	25°7'20"	20°4'4"	5°39'39"	28°45'45"	11°51'51"	17°11'11"	12°46'46"	10°20'20"	8°48'48"	8°4'4"	4°32'32"	3°46'46"	21°8'8"	3°14'14"	S 15
M16	7 42 36	26°8'27"	2°31'7"	0°3'0"	12°31'31"	17°18'18"	12°47'47"	10°21'21"	8°47'47"	8°3'3'	4°22'22"	3°43'43"	21°14'14"	3°10'10"	3°10'10"	M16
T 17	7 46 33	27°9'34"	14°45'45"	8°29'29"	1°15'15"	13°11'11"	17°25'25"	12°47'47"	10°23'23"	8°46'46"	8°3'3'	4°9'9"	3°39'39"	21°21'21"	3°7'7"	T 17
W18	7 50 30	28°10'40"	27°27'27"	9°55'55"	2°29'29"	13°50'50"	17°32'32"	12°48'48"	10°24'24"	8°45'45"	8°2'2"	3°55'55"	3°36'36"	21°28'28"	3°4'4"	W18
T 19	7 54 26	29°11'45"	10°22'22"	11°23'23"	3°44'44"	14°30'30"	17°40'40"	12°48'48"	10°26'26"	8°44'44"	8°1'1'	3°41'41"	3°33'33"	21°34'34"	3°1'1'	T 19
F 20	7 58 23	0°22'50"	23°33'33"	12°51'51"	4°59'59"	15°10'10"	17°48'48"	12°48'48"	10°27'27"	8°43'43"	8°1'1'	3°28'28"	3°30'30"	21°41'41"	2°57'57"	F 20
S 21	8 2 19	1°13'54"	6°25'55"	14°19'19"	6°14'14"	15°50'50"	17°55'55"	12°R48	10°29'29"	8°42'42"	8°0'0"	3°18'18"	3°27'27"	21°48'48"	2°54'54"	S 21
S 22	8 6 16	2°14'57"	20°26'26"	15°49'49"	7°28'28"	16°29'29"	18°3'3'	12°48'48"	10°30'30"	8°42'42"	8°0'0"	3°10'10"	3°24'24"	21°54'54"	2°50'50"	S 22
M23	8 10 12	3°15'58"	4°15'5	17°19'19"	8°43'43"	17°9'9"	18°12'12"	12°48'48"	10°31'31"	8°41'41"	7°59'59"	3°5'5'	3°20'20"	22°1'1'	2°47'47"	M23
T 24	8 14 9	4°16'59"	17°53'53"	18°49'49"	9°58'58"	17°49'49"	18°20'20"	12°48'48"	10°32'32"	8°40'40"	7°58'58"	3°3'3'	3°17'17"	22°8'8"	2°43'43"	T 24
W25	8 18 5	5°17'59"	1°49'49"	20°21'21"	11°13'13"	18°29'29"	18°28'28"	12°48'48"	10°33'33"	8°39'39"	7°58'58"	3°3'3'	3°14'14"	22°14'14"	2°39'39"	W25
T 26	8 22 2	6°18'57"	15°52'52"	21°53'53"	12°27'27"	19°9'9"	18°37'37"	12°47'47"	10°34'34"	8°38'38"	7°57'57"	3°3'3'	3°11'11"	22°21'21"	2°35'35"	T 26
F 27	8 25 59	7°19'55"	0°II 3	23°25'25"	13°42'42"	19°48'48"	18°46'46"	12°47'47"	10°35'35"	8°38'38"	7°57'57"	3°2'2"	3°8'8"	22°27'27"	2°31'31"	F 27
S 28	8 29 55	8°20'51"	14°20'20"	24°59'59"	14°57'57"	20°28'28"	18°54'54"	12°46'46"	10°36'36"	8°37'37"	7°56'56"	2°58'58"	3°4'4"	22°34'34"	2°27'27"	S 28
S 29	8 33 52	9°21'46"	28°40'40"	26°33'33"	16°12'12"	21°8'8"	19°3'3'	12°45'45"	10°37'37"	8°36'36"	7°56'56"	2°52'52"	3°1'1'	22°41'41"	2°23'23"	S 29
M30	8 37 48	10°22'40"	13°58'58"	28°8'8"	17°26'26"	21°48'48"	19°13'13"	12°44'44"	10°38'38"	8°36'36"	7°55'55"	2°42'42"	2°58'58"	22°47'47"	2°19'19"	M30
T 31	8 41 45	11°23'32"	27°51'51"	29°34'34"	18°34'34"	22°28'28"	19°22'22"	12°43'43"	10°M39	8°II35	7°II55	2°R31	2°R55	22°M54	2°M15	T 31

Delta T = -4.71 sec

FEBRUARY 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	8 45 41	12°24'24"	11°14'14"	1°19'19"	19°35'56"	23°38'08"	19°31'31"	12°R42	10°M39	8°R34	7°R54	2°R18	2°R52	23°M 1	2°R11	W 1
T 2	8 49 38	13°25'14"	24°59'24"	2°56'21"	21°11'21"	23°48'19"	19°41'19"	12°41'19"	10°40'19"	8°II34	7°II54	2°R 6	2°49'23"	23°7'23"	2°M 6	T 2
F 3	8 53 34	14°26'03"	8°M23	4°33'22"	22°25'22"	24°27'19"	19°50'19"	12°40'19"	10°41'19"	8°33'19"	7°54'19"	1°55'19"	2°45'19"	23°14'19"	2°2'19"	F 3
S 4	8 57 31	15°26'51"	21°24'21"	6°12'23"	23°40'23"	25°7'20"	20°0'20"	12°38'20"	10°41'20"	8°33'20"	7°53'20"	1°46'20"	2°42'20"	23°21'20"	1°58'20"	S 4
S 5	9 1 28	16°27'38"	4°58'5	7°51'24"	24°55'24"	25°47'20"	20°10'20"	12°37'20"	10°42'20"	8°33'20"	7°53'20"	1°41'20"	2°39'20"	23°27'20"	1°53'20"	S 5
M 6	9 5 24	17°28'23"	16°25'9"	9°31'26"	26°10'26"	26°27'20"	20°20'20"	12°35'20"	10°42'20"	8°32'20"	7°53'20"	1°38'20"	2°36'20"	23°34'20"	1°49'20"	M 6
T 7	9 9 21	18°29'08"	28°30'11"	11°11'27"	27°24'27"	27°7'20"	20°30'20"	12°33'20"	10°43'20"	8°32'20"	7°52'20"	1°D37	2°33'20"	23°41'20"	1°44'20"	T 7
W 8	9 13 17	19°29'52"	10°M24	12°53'28"	28°39'27"	27°47'20"	20°40'20"	12°32'20"	10°43'20"	8°31'20"	7°52'20"	1°37'20"	2°30'20"	23°47'20"	1°40'20"	W 8
T 9	9 17 14	20°30'35"	22°13'13"	14°35'29"	29°54'28"	28°26'20"	20°51'20"	12°30'20"	10°43'20"	8°31'20"	7°52'20"	1°R37	2°26'20"	23°54'20"	1°35'20"	T 9
F 10	9 21 10	21°31'17"	4°27'2	16°18'1	1°22'9	29°6'21"	21°1'21"	12°28'21"	10°43'21"	8°31'21"	7°52'21"	1°36'21"	2°23'21"	24°1'21"	1°31'21"	F 10
S 11	9 25 7	22°31'57"	15°56'18"	2°22'24"	29°46'24"	21°12'24"	12°26'24"	10°43'24"	8°31'24"	7°51'24"	1°33'24"	2°20'24"	24°7'24"	1°26'24"	S 11	
S 12	9 29 3	23°32'37"	28°1'28"	19°47'3	3°38'3	0°R26	21°22'3	12°23'3	10°44'3	8°30'3	7°51'3	1°28'3	2°17'3	24°14'3	1°21'3	S 12
M13	9 33 0	24°33'15"	10°R20	21°32'4	4°53'4	1°6'6	21°33'4	12°21'4	10°R44	8°30'4	7°51'4	1°20'4	2°14'4	24°21'4	1°17'4	M13
T 14	9 36 57	25°33'53"	22°57'23"	23°19'6	6°8'1	1°46'1	21°44'1	12°19'1	10°44'1	8°30'1	7°51'1	1°10'1	2°10'1	24°27'1	1°12'1	T 14
W15	9 40 53	26°34'28"	5°22'5	25°6'7	7°23'2	2°25'2	21°55'2	12°16'2	10°44'2	8°30'2	7°51'2	0°59'2	2°7'2	24°34'2	1°7'2	W15
T 16	9 44 50	27°35'03"	19°7'5	26°54'8	8°38'3	3°5'2	22°6'2	12°14'2	10°43'2	8°30'2	7°51'2	0°47'2	2°4'2	24°41'2	1°3'2	T 16
F 17	9 48 46	28°35'35"	2°R39	28°43'9	9°52'3	3°45'3	22°17'3	12°11'3	10°43'3	8°D30	7°51'3	0°37'3	2°1'3	24°47'3	0°58'3	F 17
S 18	9 52 43	29°36'06"	16°26'0	0°R33	11°7'7	4°25'7	22°29'7	12°8'7	10°43'7	8°30'7	7°50'7	0°28'7	1°58'7	24°54'7	0°53'7	S 18
S 19	9 56 39	0°R36'36"	0°Y23	2°24'2	12°22'2	5°5'2	22°40'2	12°5'2	10°43'2	8°30'2	7°50'2	0°21'2	1°55'2	25°1'2	0°48'2	S 19
M20	10 0 36	1°37'04"	14°27'4	4°15'4	13°37'4	5°45'4	22°52'4	12°2'4	10°42'4	8°30'4	7°D50	0°18'4	1°51'4	25°7'4	0°43'4	M20
T 21	10 4 32	2°37'29"	28°35'6	6°7'14	14°51'14	6°24'14	23°3'14	11°59'14	10°42'14	8°30'14	7°50'14	0°D17	1°48'14	25°14'14	0°39'14	T 21
W22	10 8 29	3°37'53"	12°R44	8°0'16	16°6'16	7°4'16	23°15'16	11°56'16	10°42'16	8°30'16	7°50'16	0°17'16	1°45'16	25°21'16	0°34'16	W22
T 23	10 12 26	4°38'15"	26°52'9	9°53'17	17°21'17	7°44'17	23°27'17	11°53'17	10°41'17	8°31'17	7°51'17	0°18'17	1°42'17	25°27'17	0°29'17	T 23
F 24	10 16 22	5°38'35"	10°II58	11°47'18	18°36'18	8°24'18	23°38'18	11°50'18	10°41'18	8°31'18	7°51'18	0°R18	1°39'18	25°34'18	0°25'18	F 24
S 25	10 20 19	6°38'54"	25°2'2	13°41'19	19°50'19	9°3'19	23°50'19	11°47'19	10°40'19	8°31'19	7°51'19	0°17'19	1°36'19	25°40'19	0°20'19	S 25
S 26	10 24 15	7°39'10"	9°58'1	15°35'21	21°5'21	9°43'21	24°2'21	11°43'21	10°39'21	8°31'21	7°51'21	0°13'21	1°32'21	25°47'21	0°15'21	S 26
M27	10 28 12	8°39'24"	22°54'17	17°29'22	22°20'22	10°23'22	24°15'22	11°40'22	10°39'22	8°32'22	7°51'22	0°7'22	1°29'22	25°54'22	0°10'22	M27
T 28	10 32 8	9°39'36"	6°R39	19°R23	23°R34	11°R 3	24°Y27	11°R36	10°M38	8°II32	7°II51	29°Y59	1°R26	26°M 0	0°M 6	T 28

ASTRODIENST EPHEMERIS for the year 1893

geocentric

MARCH 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	10 36 5	10 ^h 39'46	20 ^h 13	21 ^h 16	24 ^h 49	11 ^h 42	24 ^h 39	11 ^h 33	10 ^h 37	8 ^h 32	7 ^h 51	29 ^h 50	1 ^h 23	26 ^h 7	0 ^h 1	W 1
T 2	10 40 1	11 ^h 39'54	3 ^h 34	23 ^h 9	26 ^h 4	12 ^h 22	24 ^h 51	11 ^h 29	10 ^h 36	8 ^h 33	7 ^h 52	29 ^h 42	1 ^h 20	26 ^h 14	29 ^h 56	T 2
F 3	10 43 58	12 ^h 40'00	16 ^h 38	25 ^h 0	27 ^h 19	13 ^h 2	25 ^h 4	11 ^h 25	10 ^h 35	8 ^h 33	7 ^h 52	29 ^h 34	1 ^h 16	26 ^h 20	29 ^h 52	F 3
S 4	10 47 55	13 ^h 40'04	29 ^h 26	26 ^h 50	28 ^h 33	13 ^h 41	25 ^h 16	11 ^h 21	10 ^h 34	8 ^h 34	7 ^h 52	29 ^h 28	1 ^h 13	26 ^h 27	29 ^h 47	S 4
S 5	10 51 51	14 ^h 40'07	11 ^h 58	28 ^h 37	29 ^h 48	14 ^h 21	25 ^h 29	11 ^h 18	10 ^h 33	8 ^h 34	7 ^h 52	29 ^h 24	1 ^h 10	26 ^h 34	29 ^h 43	S 5
M 6	10 55 48	15 ^h 40'07	24 ^h 14	0 ^h 23	1 ^h 3	15 ^h 1	25 ^h 42	11 ^h 14	10 ^h 32	8 ^h 35	7 ^h 53	29 ^h D23	1 ^h 7	26 ^h 40	29 ^h 38	M 6
T 7	10 59 44	16 ^h 40'07	6 ^h 18	2 ^h 5	2 ^h 17	15 ^h 40	25 ^h 54	11 ^h 10	10 ^h 31	8 ^h 35	7 ^h 53	29 ^h 23	1 ^h 4	26 ^h 47	29 ^h 34	T 7
W 8	11 3 41	17 ^h 40'04	18 ^h 12	3 ^h 44	3 ^h 32	16 ^h 20	26 ^h 7	11 ^h 6	10 ^h 30	8 ^h 36	7 ^h 53	29 ^h 24	1 ^h 1	26 ^h 54	29 ^h 29	W 8
T 9	11 7 37	18 ^h 40'00	0 ^h 1	5 ^h 19	4 ^h 46	17 ^h 0	26 ^h 20	11 ^h 1	10 ^h 29	8 ^h 37	7 ^h 54	29 ^h 26	0 ^h 57	27 ^h 0	29 ^h 25	T 9
F 10	11 11 34	19 ^h 39'54	11 ^h 51	6 ^h 50	6 ^h 1	17 ^h 39	26 ^h 33	10 ^h 57	10 ^h 27	8 ^h 37	7 ^h 54	29 ^h 27	0 ^h 54	27 ^h 7	29 ^h 21	F 10
S 11	11 15 30	20 ^h 39'46	23 ^h 45	8 ^h 15	7 ^h 16	18 ^h 19	26 ^h 46	10 ^h 53	10 ^h 26	8 ^h 38	7 ^h 54	29 ^h R27	0 ^h 51	27 ^h 14	29 ^h 17	S 11
S 12	11 19 27	21 ^h 39'37	5 ^h 50	9 ^h 35	8 ^h 30	18 ^h 58	26 ^h 59	10 ^h 49	10 ^h 25	8 ^h 39	7 ^h 55	29 ^h 26	0 ^h 48	27 ^h 20	29 ^h 12	S 12
M 13	11 23 24	22 ^h 39'26	18 ^h 10	10 ^h 49	9 ^h 45	19 ^h 38	27 ^h 12	10 ^h 45	10 ^h 23	8 ^h 40	7 ^h 55	29 ^h 23	0 ^h 45	27 ^h 27	29 ^h 8	M 13
T 14	11 27 20	23 ^h 39'14	0 ^h 49	11 ^h 57	11 ^h 0	20 ^h 17	27 ^h 25	10 ^h 40	10 ^h 22	8 ^h 40	7 ^h 56	29 ^h 19	0 ^h 42	27 ^h 34	29 ^h 4	T 14
W 15	11 31 17	24 ^h 38'59	13 ^h 50	12 ^h 58	12 ^h 14	20 ^h 57	27 ^h 38	10 ^h 36	10 ^h 21	8 ^h 41	7 ^h 56	29 ^h 14	0 ^h 38	27 ^h 40	29 ^h 0	W 15
T 16	11 35 13	25 ^h 38'43	27 ^h 14	13 ^h 51	13 ^h 29	21 ^h 36	27 ^h 52	10 ^h 31	10 ^h 19	8 ^h 42	7 ^h 57	29 ^h 8	0 ^h 35	27 ^h 47	28 ^h 56	T 16
F 17	11 39 10	26 ^h 38'25	11 ^h 1	14 ^h 37	14 ^h 43	22 ^h 16	28 ^h 5	10 ^h 27	10 ^h 17	8 ^h 43	7 ^h 57	29 ^h 3	0 ^h 32	27 ^h 54	28 ^h 52	F 17
S 18	11 43 6	27 ^h 38'05	25 ^h 7	15 ^h 16	15 ^h 58	22 ^h 55	28 ^h 18	10 ^h 22	10 ^h 16	8 ^h 44	7 ^h 58	28 ^h 58	0 ^h 29	28 ^h 0	28 ^h 48	S 18
S 19	11 47 3	28 ^h 37'43	9 ^h 28	15 ^h 46	17 ^h 13	23 ^h 35	28 ^h 32	10 ^h 18	10 ^h 14	8 ^h 45	7 ^h 58	28 ^h 56	0 ^h 26	28 ^h 7	28 ^h 45	S 19
M 20	11 50 59	29 ^h 37'19	24 ^h 0	16 ^h 9	18 ^h 27	24 ^h 14	28 ^h 45	10 ^h 13	10 ^h 12	8 ^h 46	7 ^h 59	28 ^h D54	0 ^h 22	28 ^h 14	28 ^h 41	M 20
T 21	11 54 56	0 ^h 36'52	8 ^h 34	16 ^h 23	19 ^h 42	24 ^h 54	28 ^h 59	10 ^h 9	10 ^h 11	8 ^h 47	8 ^h 0	28 ^h 55	0 ^h 19	28 ^h 20	28 ^h 37	T 21
W 22	11 58 53	1 ^h 36'24	23 ^h 7	16 ^h R29	20 ^h 56	25 ^h 33	29 ^h 12	10 ^h 4	10 ^h 9	8 ^h 48	8 ^h 0	28 ^h 56	0 ^h 16	28 ^h 27	28 ^h 34	W 22
T 23	12 2 49	2 ^h 35'53	7 ^h 14	16 ^h 28	22 ^h 11	26 ^h 12	29 ^h 26	10 ^h 0	10 ^h 7	8 ^h 49	8 ^h 1	28 ^h 57	0 ^h 13	28 ^h 34	28 ^h 30	T 23
F 24	12 6 46	3 ^h 35'20	21 ^h 50	16 ^h 19	23 ^h 25	26 ^h 52	29 ^h 39	9 ^h 55	10 ^h 5	8 ^h 50	8 ^h 1	28 ^h 58	0 ^h 10	28 ^h 40	28 ^h 27	F 24
S 25	12 10 42	4 ^h 34'45	5 ^h 54	16 ^h 3	24 ^h 40	27 ^h 31	29 ^h 53	9 ^h 50	10 ^h 3	8 ^h 52	8 ^h 2	28 ^h R59	0 ^h 7	28 ^h 47	28 ^h 24	S 25
S 26	12 14 39	5 ^h 34'07	19 ^h 45	15 ^h 40	25 ^h 54	28 ^h 11	0 ^h 8	9 ^h 46	10 ^h 2	8 ^h 53	8 ^h 3	28 ^h 58	0 ^h 3	28 ^h 54	28 ^h 20	S 26
M 27	12 18 35	6 ^h 33'27	3 ^h 22	15 ^h 10	27 ^h 9	28 ^h 50	0 ^h 21	9 ^h 41	10 ^h 0	8 ^h 54	8 ^h 4	28 ^h 56	0 ^h 0	29 ^h 0	28 ^h 17	M 27
T 28	12 22 32	7 ^h 32'45	16 ^h 45	14 ^h 36	28 ^h 23	29 ^h 29	0 ^h 35	9 ^h 36	9 ^h 58	8 ^h 55	8 ^h 4	28 ^h 54	29 ^h 57	29 ^h 7	28 ^h 14	T 28
W 29	12 26 28	8 ^h 32'00	29 ^h 54	13 ^h 56	29 ^h 37	0 ^h 11	0 ^h 48	9 ^h 32	9 ^h 56	8 ^h 57	8 ^h 5	28 ^h 51	29 ^h 54	29 ^h 14	28 ^h 11	W 29
T 30	12 30 25	9 ^h 31'13	12 ^h 50	13 ^h 13	0 ^h 52	0 ^h 48	1 ^h 2	9 ^h 27	9 ^h 54	8 ^h 58	8 ^h 6	28 ^h 48	29 ^h 51	29 ^h 20	28 ^h 8	T 30
F 31	12 34 22	10 ^h 30'24	25 ^h 33	12 ^h 27	2 ^h 6	1 ^h 11	1 ^h 16	9 ^h 22	9 ^h 51	8 ^h 59	8 ^h 11	28 ^h 45	29 ^h 47	29 ^h 27	28 ^h 5	F 31

Delta T = -4.75 sec

APRIL 1893

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Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	12 38 18	11°29'33	8♌ 2	11°R39	3°Y21	2♊ 6	1♉30	9°R18	9°R49	9♊ 1	8♊ 7	28°R43	29°Y44	29♌34	28°R 3	S 1
S 2	12 42 15	12°28'39	20°20	10°Y50	4°35	2°45	1°44	9♌13	9♌47	9° 2	8° 8	28°Y42	29°41	29°40	28♌ 0	S 2
M 3	12 46 11	13°27'44	2♌27	10° 1	5°49	3°25	1°58	9° 8	9°45	9° 3	8° 9	28°D42	29°38	29°47	27°58	M 3
T 4	12 50 8	14°26'47	14°25	9°13	7° 4	4° 4	2°12	9° 4	9°43	9° 5	8°10	28°43	29°35	29°54	27°55	T 4
W 5	12 54 4	15°25'47	26°18	8°27	8°18	4°43	2°26	8°59	9°41	9° 6	8°11	28°44	29°32	0♌ 0	27°53	W 5
T 6	12 58 1	16°24'46	8♌ 7	7°44	9°32	5°22	2°40	8°54	9°38	9° 8	8°12	28°45	29°28	0° 7	27°51	T 6
F 7	13 1 57	17°23'44	19°57	7° 4	10°47	6° 1	2°54	8°50	9°36	9° 9	8°13	28°46	29°25	0°14	27°49	F 7
S 8	13 5 54	18°22'39	1♌52	6°27	12° 1	6°40	3° 9	8°45	9°34	9°11	8°14	28°47	29°22	0°20	27°47	S 8
S 9	13 9 51	19°21'33	13°56	5°55	13°15	7°19	3°23	8°41	9°31	9°12	8°15	28°R47	29°19	0°27	27°45	S 9
M10	13 13 47	20°20'25	26°14	5°28	14°30	7°58	3°37	8°36	9°29	9°14	8°15	28°47	29°16	0°34	27°43	M10
T 11	13 17 44	21°19'15	8♌50	5° 6	15°44	8°38	3°51	8°32	9°27	9°16	8°16	28°47	29°13	0°40	27°41	T 11
W12	13 21 40	22°18'03	21°48	4°49	16°58	9°17	4° 5	8°27	9°24	9°17	8°17	28°46	29° 9	0°47	27°40	W12
T 13	13 25 37	23°16'50	5♌12	4°38	18°12	9°56	4°20	8°23	9°22	9°19	8°18	28°46	29° 6	0°54	27°38	T 13
F 14	13 29 33	24°15'35	19° 1	4°31	19°27	10°35	4°34	8°18	9°20	9°21	8°19	28°45	29° 3	1° 0	27°37	F 14
S 15	13 33 30	25°14'18	3°Y14	4°D30	20°41	11°14	4°48	8°14	9°17	9°22	8°21	28°45	29° 0	1° 7	27°35	S 15
S 16	13 37 26	26°12'59	17°49	4°34	21°55	11°53	5° 2	8° 9	9°15	9°24	8°22	28°45	28°57	1°14	27°34	S 16
M17	13 41 23	27°11'39	2♌40	4°43	23° 9	12°32	5°17	8° 5	9°12	9°26	8°23	28°D44	28°53	1°20	27°33	M17
T 18	13 45 19	28°10'16	17°38	4°57	24°24	13°10	5°31	8° 1	9°10	9°28	8°24	28°45	28°50	1°27	27°32	T 18
W19	13 49 16	29° 8'52	2♊36	5°16	25°38	13°49	5°45	7°57	9° 7	9°29	8°25	28°R45	28°47	1°34	27°31	W19
T 20	13 53 13	0♌ 7'25	17°25	5°39	26°52	14°28	6° 0	7°53	9° 5	9°31	8°26	28°44	28°44	1°40	27°31	T 20
F 21	13 57 9	1° 5'56	2♌ 0	6° 6	28° 6	15° 7	6°14	7°48	9° 2	9°33	8°27	28°44	28°41	1°47	27°30	F 21
S 22	14 1 6	2° 4'26	16°16	6°38	29°20	15°46	6°28	7°44	9° 0	9°35	8°28	28°44	28°38	1°54	27°30	S 22
S 23	14 5 2	3° 2'52	0♌10	7°14	0♌34	16°25	6°43	7°40	8°57	9°37	8°29	28°D44	28°34	2° 0	27°29	S 23
M24	14 8 59	4° 1'17	13°43	7°54	1°48	17° 4	6°57	7°36	8°55	9°39	8°30	28°44	28°31	2° 7	27°29	M24
T 25	14 12 55	4°59'40	26°55	8°37	3° 3	17°43	7°12	7°33	8°52	9°40	8°32	28°44	28°28	2°14	27°29	T 25
W26	14 16 52	5°58'00	9♊49	9°24	4°17	18°21	7°26	7°29	8°50	9°42	8°33	28°45	28°25	2°20	27°D29	W26
T 27	14 20 48	6°56'18	22°27	10°15	5°31	19° 0	7°40	7°25	8°47	9°44	8°34	28°46	28°22	2°27	27°29	T 27
F 28	14 24 45	7°54'35	4♌51	11° 8	6°45	19°39	7°55	7°21	8°45	9°46	8°35	28°46	28°19	2°34	27°29	F 28
S 29	14 28 42	8°52'49	17° 4	12° 5	7°59	20°18	8° 9	7°18	8°42	9°48	8°36	28°47	28°15	2°40	27°29	S 29
S 30	14 32 38	9♌51'01	29♌ 9	13°Y 5	9♌13	20♊56	8♌23	7♌14	8♌39	9♊50	8♊38	28°R47	28°Y12	2♌47	27♌30	S 30

ASTRODIENST EPHEMERIS for the year 1893

geocentric

MAY 1893

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
M 1	14 36 35	10♈49'12	11♍6	14♀8	10♂27	21♂35	8♂38	7°R11	8°R37	9♂52	8♂39	28°R47	28♀9	2♂54	27♂30	M 1
T 2	14 40 31	11°47'21	22°59	15°13	11°41	22°14	8°52	7♂7	8♂34	9°54	8°40	28♀46	28°6	3°0	27°31	T 2
W 3	14 44 28	12°45'29	4♂49	16°21	12°55	22°52	9°6	7°4	8°32	9°56	8°41	28°44	28°3	3°7	27°31	W 3
T 4	14 48 24	13°43'34	16°38	17°32	14°9	23°31	9°21	7°0	8°29	9°58	8°43	28°42	27°59	3°14	27°32	T 4
F 5	14 52 21	14°41'39	28°30	18°45	15°23	24°10	9°35	6°57	8°27	10°0	8°44	28°40	27°56	3°20	27°33	F 5
S 6	14 56 17	15°39'42	10♈27	20°1	16°37	24°48	9°49	6°54	8°24	10°2	8°45	28°38	27°53	3°27	27°34	S 6
S 7	15 0 14	16°37'43	22°32	21°19	17°51	25°27	10°4	6°51	8°22	10°5	8°46	28°35	27°50	3°34	27°36	S 7
M 8	15 4 11	17°35'43	4♂50	22°39	19°5	26°6	10°18	6°48	8°19	10°7	8°48	28°34	27°47	3°40	27°37	M 8
T 9	15 8 7	18°33'42	17°23	24°2	20°19	26°44	10°32	6°45	8°17	10°9	8°49	28°D34	27°44	3°47	27°38	T 9
W10	15 12 4	19°31'39	0♈16	25°27	21°32	27°23	10°46	6°42	8°14	10°11	8°50	28°34	27°40	3°54	27°40	W10
T 11	15 16 0	20°29'35	13°33	26°54	22°46	28°1	11°1	6°40	8°12	10°13	8°52	28°35	27°37	4°0	27°41	T 11
F 12	15 19 57	21°27'30	27°15	28°23	24°0	28°40	11°15	6°37	8°9	10°15	8°53	28°36	27°34	4°7	27°43	F 12
S 13	15 23 53	22°25'23	11♀25	29°55	25°14	29°18	11°29	6°34	8°7	10°17	8°54	28°38	27°31	4°14	27°45	S 13
S 14	15 27 50	23°23'15	25°59	1♈29	26°28	29°57	11°43	6°32	8°4	10°19	8°55	28°R38	27°28	4°20	27°47	S 14
M15	15 31 46	24°21'06	10♈54	3°4	27°42	0♈35	11°57	6°30	8°2	10°22	8°57	28°38	27°24	4°27	27°49	M15
T 16	15 35 43	25°18'56	26°3	4°42	28°56	1°14	12°12	6°27	8°0	10°24	8°58	28°36	27°21	4°34	27°51	T 16
W17	15 39 40	26°16'44	11♂16	6°23	0♈10	1°52	12°26	6°25	7°57	10°26	8°59	28°33	27°18	4°40	27°53	W17
T 18	15 43 36	27°14'31	26°23	8°5	1°23	2°31	12°40	6°23	7°55	10°28	9°1	28°30	27°15	4°47	27°56	T 18
F 19	15 47 33	28°12'17	11♈16	9°49	2°37	3°9	12°54	6°21	7°53	10°30	9°2	28°26	27°12	4°54	27°58	F 19
S 20	15 51 29	29°10'00	25°46	11°36	3°51	3°48	13°8	6°19	7°50	10°33	9°4	28°22	27°9	5°0	28°1	S 20
S 21	15 55 26	0♈743	9♂51	13°24	5°5	4°26	13°22	6°17	7°48	10°35	9°5	28°19	27°5	5°7	28°4	S 21
M22	15 59 22	1°5'23	23°28	15°15	6°19	5°4	13°36	6°15	7°46	10°37	9°6	28°18	27°2	5°14	28°6	M22
T 23	16 3 19	2°3'02	6♈39	17°8	7°32	5°43	13°50	6°14	7°43	10°39	9°8	28°D17	26°59	5°20	28°9	T 23
W24	16 7 16	3°0'39	19°28	19°3	8°46	6°21	14°4	6°12	7°41	10°41	9°9	28°18	26°56	5°27	28°12	W24
T 25	16 11 12	3°58'15	1♈56	21°0	10°0	7°0	14°18	6°11	7°39	10°44	9°10	28°20	26°53	5°34	28°15	T 25
F 26	16 15 9	4°55'49	14°10	22°59	11°14	7°38	14°32	6°9	7°37	10°46	9°12	28°21	26°50	5°40	28°19	F 26
S 27	16 19 5	5°53'22	26°13	25°0	12°27	8°16	14°46	6°8	7°35	10°48	9°13	28°R22	26°46	5°47	28°22	S 27
S 28	16 23 2	6°50'54	8♍8	27°3	13°41	8°55	14°59	6°7	7°33	10°50	9°14	28°22	26°43	5°54	28°25	S 28
M29	16 26 58	7°48'25	19°59	29°8	14°55	9°33	15°13	6°6	7°30	10°53	9°16	28°20	26°40	6°0	28°29	M29
T 30	16 30 55	8°45'54	1♈48	1♂14	16°9	10°11	15°27	6°5	7°28	10°55	9°17	28°15	26°37	6°7	28°32	T 30
W31	16 34 51	9♂43'22	13♂38	3♂22	17♂22	10♈49	15♂40	6♂4	7♍26	10♂57	9♂19	28♀10	26♀34	6♂14	28♂36	W31

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JUNE 1893

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	16 38 48	10♈40'50	25♂30	5♂31	18♂36	11♂28	15♂54	6°R3	7°R24	10♂59	9♂20	28°R2	26♀30	6♂21	28♂40	T 1
F 2	16 42 45	11°38'16	7♈27	7°41	19°50	12°6	16°8	6♂3	7♍22	11°2	9°21	27♀54	26°27	6°27	28°44	F 2
S 3	16 46 41	12°35'42	19°30	9°52	21°3	12°44	16°21	6°2	7°20	11°4	9°23	27°46	26°24	6°34	28°48	S 3
S 4	16 50 38	13°33'07	1♈41	12°4	22°17	13°22	16°35	6°2	7°19	11°6	9°24	27°39	26°21	6°41	28°52	S 4
M 5	16 54 34	14°30'31	14°2	14°16	23°31	14°1	16°48	6°1	7°17	11°8	9°25	27°34	26°18	6°47	28°56	M 5
T 6	16 58 31	15°27'54	26°37	16°28	24°44	14°39	17°2	6°1	7°15	11°11	9°27	27°30	26°15	6°54	29°0	T 6
W 7	17 2 27	16°25'17	9♈28	18°40	25°58	15°17	17°15	6°1	7°13	11°13	9°28	27°28	26°11	7°1	29°5	W 7
T 8	17 6 24	17°22'39	22°40	20°51	27°12	15°55	17°28	6°D1	7°11	11°15	9°30	27°D28	26°8	7°7	29°9	T 8
F 9	17 10 20	18°20'01	6♀14	23°2	28°25	16°33	17°42	6°1	7°10	11°17	9°31	27°29	26°5	7°14	29°14	F 9
S 10	17 14 17	19°17'22	20°12	25°12	29°39	17°12	17°55	6°1	7°8	11°20	9°32	27°R30	26°2	7°21	29°18	S 10
S 11	17 18 14	20°14'43	4♈36	27°20	0♈52	17°50	18°8	6°1	7°6	11°22	9°34	27°30	25°59	7°27	29°23	S 11
M12	17 22 10	21°12'03	19°22	29°28	2°6	18°28	18°21	6°2	7°5	11°24	9°35	27°28	25°56	7°34	29°28	M12
T 13	17 26 7	22°9'23	4♂33	1♈33	3°20	19°6	18°34	6°2	7°3	11°26	9°36	27°24	25°52	7°41	29°33	T 13
W14	17 30 3	23°6'43	19°38	3°37	4°33	19°44	18°47	6°3	7°2	11°28	9°38	27°18	25°49	7°47	29°38	W14
T 15	17 34 0	24°4'02	4♈50	5°39	5°47	20°22	19°0	6°3	7°0	11°31	9°39	27°10	25°46	7°54	29°43	T 15
F 16	17 37 56	25°1'20	19°50	7°39	7°0	21°1	19°13	6°4	6°59	11°33	9°40	27°1	25°43	8°1	29°48	F 16
S 17	17 41 53	25°58'38	4♂30	9°37	8°14	21°39	19°26	6°5	6°57	11°35	9°42	26°53	25°40	8°7	29°53	S 17
S 18	17 45 49	26°55'55	18°43	11°33	9°28	22°17	19°39	6°6	6°56	11°37	9°43	26°46	25°37	8°14	29°59	S 18
M19	17 49 46	27°53'11	2♈27	13°27	10°41	22°55	19°52	6°7	6°55	11°39	9°44	26°41	25°33	8°21	0♈4	M19
T 20	17 53 43	28°50'26	15°42	15°19	11°55	23°33	20°4	6°8	6°53	11°42	9°46	26°38	25°30	8°27	0°10	T 20
W21	17 57 39	29°47'41	28°31	17°8	13°8	24°11	20°17	6°9	6°52	11°44	9°47	26°D38	25°27	8°34	0°15	W21
T 22	18 1 36	0♈44'54	10♈59	18°55	14°22	24°49	20°29	6°11	6°51	11°46	9°48	26°38	25°24	8°41	0°21	T 22
F 23	18 5 32	1°42'08	23°9	20°40	15°35	25°27	20°42	6°12	6°50	11°48	9°50	26°R38	25°21	8°47	0°26	F 23
S 24	18 9 29	2°39'20	5♍7	22°23	16°49	26°5	20°54	6°14	6°49	11°50	9°51	26°38	25°17	8°54	0°32	S 24
S 25	18 13 25	3°36'33	16°59	24°3	18°2	26°43	21°6	6°15	6°48	11°52	9°52	26°36	25°14	9°1	0°38	S 25
M26	18 17 22	4°33'45	28°47	25°41	19°16	27°21	21°19	6°17	6°47	11°54	9°53	26°32	25°11	9°8	0°44	M26
T 27	18 21 18	5°30'56	10♂37	27°17	20°29	27°59	21°31	6°19	6°46	11°56	9°55	26°25	25°8	9°14	0°50	T 27
W28	18 25 15	6°28'07	22°29	28°50	21°43	28°37	21°43	6°21	6°45	11°59	9°56	26°15	25°5	9°21	0°56	W28
T 29	18 29 12	7°25'18	4♈27	0♈21	22°56	29°16	21°55	6°23	6°44	12°1	9°57	26°4	25°2	9°28	1°2	T 29
F 30	18 33 8	8♈22'29	16♈32	1♈50	24♈10	29♈54	22♈7	6♈25	6♍43	12♂3	9♂58	25♀52	24♀58	9♂34	1♈9	F 30

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ASTRODIENST EPHEMERIS for the year 1893

geocentric

JULY 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	18 37 5	9 ⁵⁵ 19'40	28 ³⁴ 46	3 ¹⁶ 16	25 ⁵² 23	0 ⁰¹ 32	22 ²⁸ 19	6 ⁴² 27	6 ⁴³ R43	12 ¹¹ 5	10 ¹¹ 0	25 ⁰ R39	24 ¹⁷ 55	9 ²⁷ 41	1 ¹⁰ 15	S 1
S 2	18 41 1	10 ¹⁶ 51	11 ³⁸ 8	4 ⁴⁰	26 ³⁷	1 ¹⁰	22 ³⁰	6 ³⁰	6 ⁴² 42	12 ⁷	10 ¹	25 ¹⁷ 28	24 ⁵²	9 ⁴⁸	1 ²¹	S 2
M 3	18 44 58	11 ¹⁴ 02	23 ⁴⁰	6 ²	27 ⁵⁰	1 ⁴⁸	22 ⁴²	6 ³²	6 ⁴¹	12 ⁹	10 ²	25 ¹⁸	24 ⁴⁹	9 ⁵⁴	1 ²⁸	M 3
T 4	18 48 54	12 ¹¹ 13	6 ¹² 24	7 ²¹	29 ³	2 ²⁶	22 ⁵⁴	6 ³⁵	6 ⁴¹	12 ¹¹	10 ³	25 ¹¹	24 ⁴⁶	10 ¹	1 ³⁴	T 4
W 5	18 52 51	13 ⁸ 24	19 ²¹	8 ³⁸	0 ⁰¹ 17	3 ⁴	23 ⁵	6 ³⁷	6 ⁴⁰	12 ¹³	10 ⁴	25 ⁷	24 ⁴³	10 ⁸	1 ⁴¹	W 5
T 6	18 56 48	14 ⁵ 35	2 ¹⁷ 33	9 ⁵²	1 ³⁰	3 ⁴²	23 ¹⁷	6 ⁴⁰	6 ⁴⁰	12 ¹⁵	10 ⁶	25 ⁵	24 ³⁹	10 ¹⁴	1 ⁴⁷	T 6
F 7	19 0 44	15 ² 47	16 ³	11 ³	2 ⁴⁴	4 ²⁰	23 ²⁸	6 ⁴³	6 ³⁹	12 ¹⁷	10 ⁷	25 ^D 5	24 ³⁶	10 ²¹	1 ⁵⁴	F 7
S 8	19 4 41	16 ⁰ 00	29 ⁵³	12 ¹²	3 ⁵⁷	4 ⁵⁸	23 ³⁹	6 ⁴⁶	6 ³⁹	12 ¹⁹	10 ⁸	25 ^R 5	24 ³³	10 ²⁸	2 ¹	S 8
S 9	19 8 37	16 ⁵⁷ 13	14 ⁸ 4	13 ¹⁸	5 ¹⁰	5 ³⁶	23 ⁵⁰	6 ⁴⁸	6 ³⁹	12 ²¹	10 ⁹	25 ⁴	24 ³⁰	10 ³⁴	2 ⁷	S 9
M10	19 12 34	17 ⁵⁴ 26	28 ³⁵	14 ²¹	6 ²⁴	6 ¹⁴	24 ¹	6 ⁵²	6 ³⁸	12 ²²	10 ¹⁰	25 ¹	24 ²⁷	10 ⁴¹	2 ¹⁴	M10
T 11	19 16 30	18 ⁵¹ 40	13 ¹¹ 22	15 ²¹	7 ³⁷	6 ⁵²	24 ¹²	6 ⁵⁵	6 ³⁸	12 ²⁴	10 ¹¹	24 ⁵⁶	24 ²³	10 ⁴⁸	2 ²¹	T 11
W12	19 20 27	19 ⁴⁸ 55	28 ¹⁹	16 ¹⁹	8 ⁵⁰	7 ³⁰	24 ²³	6 ⁵⁸	6 ³⁸	12 ²⁶	10 ¹²	24 ⁴⁷	24 ²⁰	10 ⁵⁵	2 ²⁸	W12
T 13	19 24 23	20 ⁴⁶ 10	13 ⁵⁸ 19	17 ¹³	10 ⁴	8 ⁸	24 ³⁴	7 ¹	6 ³⁸	12 ²⁸	10 ¹³	24 ³⁷	24 ¹⁷	11 ¹	2 ³⁵	T 13
F 14	19 28 20	21 ⁴³ 25	28 ¹²	18 ³	11 ¹⁷	8 ⁴⁶	24 ⁴⁵	7 ⁵	6 ³⁸	12 ³⁰	10 ¹⁵	24 ²⁶	24 ¹⁴	11 ⁸	2 ⁴²	F 14
S 15	19 32 17	22 ⁴⁰ 40	12 ⁰¹ 49	18 ⁵¹	12 ³¹	9 ²⁴	24 ⁵⁵	7 ⁸	6 ^D 38	12 ³²	10 ¹⁶	24 ¹⁵	24 ¹¹	11 ¹⁵	2 ⁴⁹	S 15
S 16	19 36 13	23 ³⁷ 56	27 ²	19 ³⁵	13 ⁴⁴	10 ²	25 ⁶	7 ¹²	6 ³⁸	12 ³⁴	10 ¹⁷	24 ⁶	24 ⁸	11 ²¹	2 ⁵⁷	S 16
M17	19 40 10	24 ³⁵ 12	10 ¹⁰ 48	20 ¹⁵	14 ⁵⁷	10 ⁴⁰	25 ¹⁶	7 ¹⁵	6 ³⁸	12 ³⁵	10 ¹⁸	23 ⁵⁹	24 ⁴	11 ²⁸	3 ⁴	M17
T 18	19 44 6	25 ³² 28	24 ⁶	20 ⁵¹	16 ¹⁰	11 ¹⁸	25 ²⁷	7 ¹⁹	6 ³⁸	12 ³⁷	10 ¹⁹	23 ⁵⁴	24 ¹	11 ³⁵	3 ¹¹	T 18
W19	19 48 3	26 ²⁹ 44	6 ⁴² 58	21 ²⁴	17 ²⁴	11 ⁵⁶	25 ³⁷	7 ²³	6 ³⁸	12 ³⁹	10 ²⁰	23 ⁵²	23 ⁵⁸	11 ⁴¹	3 ¹⁹	W19
T 20	19 51 59	27 ²⁷ 01	19 ²⁸	21 ⁵²	18 ³⁷	12 ³⁴	25 ⁴⁷	7 ²⁷	6 ³⁸	12 ⁴¹	10 ²¹	23 ⁵¹	23 ⁵⁵	11 ⁴⁸	3 ²⁶	T 20
F 21	19 55 56	28 ²⁴ 18	1 ¹⁰ 38	22 ¹⁶	19 ⁵⁰	13 ¹²	25 ⁵⁷	7 ³¹	6 ³⁹	12 ⁴²	10 ²²	23 ⁵¹	23 ⁵²	11 ⁵⁵	3 ³³	F 21
S 22	19 59 52	29 ²¹ 35	13 ³⁷	22 ³⁵	21 ³	13 ⁵⁰	26 ⁷	7 ³⁵	6 ³⁹	12 ⁴⁴	10 ²³	23 ⁵¹	23 ⁴⁸	12 ¹	3 ⁴¹	S 22
S 23	20 3 49	0 ⁰¹ 18'53	25 ²⁸	22 ⁵⁰	22 ¹⁷	14 ²⁸	26 ¹⁶	7 ³⁹	6 ³⁹	12 ⁴⁶	10 ²⁴	23 ⁴⁹	23 ⁴⁵	12 ⁸	3 ⁴⁸	S 23
M24	20 7 46	1 ¹⁶ 11	7 ²⁷ 18	23 ⁰	23 ³⁰	15 ⁶	26 ²⁶	7 ⁴³	6 ⁴⁰	12 ⁴⁷	10 ²⁵	23 ⁴⁴	23 ⁴²	12 ¹⁵	3 ⁵⁶	M24
T 25	20 11 42	2 ¹³ 29	19 ⁹	23 ⁶	24 ⁴³	15 ⁴⁴	26 ³⁵	7 ⁴⁸	6 ⁴⁰	12 ⁴⁹	10 ²⁶	23 ³⁷	23 ³⁹	12 ²¹	4 ⁴	T 25
W26	20 15 39	3 ¹⁰ 48	1 ³ 6	23 ^R 6	25 ⁵⁶	16 ²²	26 ⁴⁵	7 ⁵²	6 ⁴¹	12 ⁵⁰	10 ²⁶	23 ²⁸	23 ³⁶	12 ²⁸	4 ¹¹	W26
T 27	20 19 35	4 ⁸ 08	13 ¹²	23 ¹	27 ⁹	17 ⁰	26 ⁵⁴	7 ⁵⁶	6 ⁴¹	12 ⁵²	10 ²⁷	23 ¹⁶	23 ³³	12 ³⁵	4 ¹⁹	T 27
F 28	20 23 32	5 ⁵ 28	25 ²⁷	22 ⁵¹	28 ²²	17 ³⁸	27 ³	8 ¹	6 ⁴²	12 ⁵⁴	10 ²⁸	23 ³	23 ²⁹	12 ⁴²	4 ²⁷	F 28
S 29	20 27 28	6 ² 50	7 ³³ 54	22 ³⁶	29 ³⁶	18 ¹⁶	27 ¹²	8 ⁶	6 ⁴³	12 ⁵⁵	10 ²⁹	22 ⁵¹	23 ²⁶	12 ⁴⁸	4 ³⁵	S 29
S 30	20 31 25	7 ⁰ 11	20 ³²	22 ¹⁶	0 ¹⁰ 49	18 ⁵⁴	27 ²¹	8 ¹⁰	6 ⁴⁴	12 ⁵⁷	10 ³⁰	22 ³⁹	23 ²³	12 ⁵⁵	4 ⁴²	S 30
M31	20 35 21	7 ⁰¹ 57'34	3 ¹² 21	21 ⁰¹ 51	2 ¹⁰ 2	19 ⁰¹ 32	27 ¹⁸ 30	8 ¹⁵	6 ⁴⁴	12 ⁵⁸	10 ³¹	22 ¹⁷ 29	23 ¹⁷ 20	13 ²⁷ 2	4 ¹⁰ 50	M31

Delta T = -4.84 sec

AUGUST 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
T 1	20 39 18	8♂54'58	16✠21	21°R21	3♂15	20♂10	27✠38	8♂20	6♂45	12♂59	10♂32	22°R22	23♂17	13♂8	4♂58	T 1
W 2	20 43 15	9°52'22	29°33	20♂47	4°28	20°48	27°47	8°25	6°46	13°1	10°32	22♂18	23°14	13°15	5°6	W 2
T 3	20 47 11	10°49'48	12♂57	20°9	5°41	21°26	27°55	8°30	6°47	13°2	10°33	22°16	23°10	13°22	5°14	T 3
F 4	20 51 8	11°47'16	26°33	19°28	6°54	22°4	28°3	8°35	6°48	13°4	10°34	22°D16	23°7	13°28	5°22	F 4
S 5	20 55 4	12°44'44	10♂22	18°44	8°7	22°42	28°12	8°40	6°49	13°5	10°35	22°R16	23°4	13°35	5°30	S 5
S 6	20 59 1	13°42'14	24°25	17°58	9°20	23°20	28°20	8°45	6°50	13°6	10°35	22°16	23°1	13°42	5°38	S 6
M 7	21 2 57	14°39'45	8♂42	17°10	10°33	23°58	28°27	8°50	6°52	13°8	10°36	22°13	22°58	13°48	5°46	M 7
T 8	21 6 54	15°37'18	23°10	16°22	11°46	24°36	28°35	8°55	6°53	13°9	10°37	22°9	22°54	13°55	5°54	T 8
W 9	21 10 50	16°34'52	7♂45	15°34	12°59	25°14	28°43	9°1	6°54	13°10	10°37	22°2	22°51	14°2	6°2	W 9
T 10	21 14 47	17°32'28	22°23	14°48	14°12	25°52	28°50	9°6	6°55	13°11	10°38	21°53	22°48	14°9	6°11	T 10
F 11	21 18 44	18°30'04	6♂54	14°4	15°25	26°30	28°57	9°12	6°57	13°12	10°39	21°44	22°45	14°15	6°19	F 11
S 12	21 22 40	19°27'42	21°14	13°23	16°37	27°8	29°4	9°17	6°58	13°14	10°39	21°34	22°42	14°22	6°27	S 12
S 13	21 26 37	20°25'21	5♂15	12°46	17°50	27°46	29°11	9°23	7°0	13°15	10°40	21°26	22°39	14°29	6°35	S 13
M14	21 30 33	21°23'01	18°54	12°13	19°3	28°25	29°18	9°28	7°1	13°16	10°40	21°19	22°35	14°35	6°44	M14
T 15	21 34 30	22°20'43	2♂8	11°46	20°16	29°3	29°25	9°34	7°3	13°17	10°41	21°15	22°32	14°42	6°52	T 15
W16	21 38 26	23°18'25	14°59	11°26	21°29	29°41	29°31	9°40	7°4	13°18	10°41	21°14	22°29	14°49	7°0	W16
T 17	21 42 23	24°16'09	27°29	11°12	22°41	0♂19	29°37	9°46	7°6	13°19	10°42	21°D14	22°26	14°55	7°9	T 17
F 18	21 46 19	25°13'53	9♂42	11°D 4	23°54	0°57	29°44	9°52	7°8	13°20	10°42	21°15	22°23	15°2	7°17	F 18
S 19	21 50 16	26°11'39	21°42	11°5	25°7	1°35	29°50	9°58	7°9	13°21	10°43	21°R15	22°20	15°9	7°25	S 19
S 20	21 54 13	27°9'26	3♂35	11°12	26°20	2°13	29°55	10°4	7°11	13°22	10°43	21°15	22°16	15°15	7°34	S 20
M21	21 58 9	28°7'14	15°26	11°28	27°32	2°51	0♂1	10°10	7°13	13°22	10°44	21°13	22°13	15°22	7°42	M21
T 22	22 2 6	29°5'04	27°19	11°51	28°45	3°30	0°7	10°16	7°15	13°23	10°44	21°10	22°10	15°29	7°51	T 22
W23	22 6 2	0♂2'54	9♂20	12°22	29°58	4°8	0°12	10°22	7°17	13°24	10°45	21°4	22°7	15°36	7°59	W23
T 24	22 9 59	1°0'46	21°32	13°1	1♂10	5°46	0°17	10°28	7°19	13°25	10°45	20°56	22°4	15°42	8°7	T 24
F 25	22 13 55	1°58'39	3♂56	13°47	2°23	5°24	0°22	10°34	7°21	13°26	10°45	20°48	22°0	15°49	8°16	F 25
S 26	22 17 52	2°56'34	16°36	14°41	3°35	6°2	0°27	10°41	7°23	13°26	10°46	20°39	21°57	15°56	8°24	S 26
S 27	22 21 48	3°54'30	29°31	15°41	4°48	6°40	0°32	10°47	7°25	13°27	10°46	20°31	21°54	16°2	8°33	S 27
M28	22 25 45	4°52'27	12✠40	16°48	6°0	7°19	0°36	10°53	7°27	13°28	10°46	20°25	21°51	16°9	8°41	M28
T 29	22 29 42	5°50'27	26°3	18°2	7°13	7°57	0°40	11°0	7°29	13°28	10°47	20°20	21°48	16°16	8°50	T 29
W30	22 33 38	6°48'27	9♂37	19°22	8°25	8°35	0°45	11°6	7°32	13°29	10°47	20°18	21°45	16°22	8°58	W30
T 31	22 37 35	7♂46'30	23♂22	20♂47	9♂37	9♂13	0♂48	11♂13	7♂34	13♂29	10♂47	20°D18	21♂41	16♂29	9♂7	T 31

ASTRODIENST EPHEMERIS for the year 1893
geocentric

SEPTEMBER 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	22 41 31	8♐44'35	7♋15	22♏17	10♌50	9♍52	0♈52	11♏19	7♍36	13♏30	10♏47	20♏18	21♏38	16♏36	9♍15	F 1
S 2	22 45 28	9°42'41	21°15	23°51	12° 2	10°30	0°56	11°26	7°39	13°30	10°47	20°20	21°35	16°43	9°24	S 2
S 3	22 49 24	10°40'50	5♏21	25°30	13°14	11° 8	0°59	11°33	7°41	13°31	10°48	20°R21	21°32	16°49	9°32	S 3
M 4	22 53 21	11°39'01	19°32	27°12	14°27	11°46	1° 2	11°39	7°44	13°31	10°48	20°21	21°29	16°56	9°41	M 4
T 5	22 57 17	12°37'14	3♏46	28°57	15°39	12°25	1° 5	11°46	7°46	13°32	10°48	20°19	21°26	17° 3	9°49	T 5
W 6	23 1 14	13°35'29	18° 0	0♐44	16°51	13° 3	1° 8	11°53	7°49	13°32	10°48	20°16	21°22	17° 9	9°58	W 6
T 7	23 5 11	14°33'46	2♏11	2°33	18° 3	13°41	1°11	12° 0	7°51	13°32	10°48	20°11	21°19	17°16	10° 6	T 7
F 8	23 9 7	15°32'04	16°16	4°25	19°15	14°20	1°13	12° 6	7°54	13°33	10°48	20° 6	21°16	17°23	10°15	F 8
S 9	23 13 4	16°30'25	0♐ 9	6°17	20°27	14°58	1°16	12°13	7°56	13°33	10°48	20° 0	21°13	17°29	10°23	S 9
S 10	23 17 0	17°28'48	13°48	8°10	21°40	15°37	1°18	12°20	7°59	13°33	10°R48	19°56	21°10	17°36	10°32	S 10
M 11	23 20 57	18°27'12	27° 9	10° 4	22°52	16°15	1°20	12°27	8° 2	13°33	10°48	19°52	21° 6	17°43	10°40	M 11
T 12	23 24 53	19°25'38	10♏12	11°58	24° 4	16°53	1°21	12°34	8° 5	13°34	10°48	19°50	21° 3	17°50	10°49	T 12
W 13	23 28 50	20°24'06	22°56	13°51	25°16	17°32	1°23	12°41	8° 7	13°34	10°48	19°D50	21° 0	17°56	10°57	W 13
T 14	23 32 46	21°22'36	5♏22	15°45	26°28	18°10	1°24	12°48	8°10	13°34	10°48	19°51	20°57	18° 3	11° 6	T 14
F 15	23 36 43	22°21'08	17°34	17°39	27°40	18°49	1°25	12°55	8°13	13°34	10°48	19°53	20°54	18°10	11°14	F 15
S 16	23 40 40	23°19'41	29°34	19°32	28°51	19°27	1°26	13° 2	8°16	13°R34	10°48	19°54	20°51	18°16	11°23	S 16
S 17	23 44 36	24°18'16	11♏28	21°24	0♏ 3	20° 6	1°27	13° 9	8°19	13°34	10°48	19°56	20°47	18°23	11°31	S 17
M 18	23 48 33	25°16'52	23°19	23°15	1°15	20°44	1°27	13°16	8°22	13°34	10°47	19°R56	20°44	18°30	11°39	M 18
T 19	23 52 29	26°15'31	5♏14	25° 6	2°27	21°23	1°27	13°23	8°25	13°34	10°47	19°56	20°41	18°36	11°48	T 19
W 20	23 56 26	27°14'11	17°15	26°56	3°39	22° 1	1°R27	13°30	8°28	13°34	10°47	19°55	20°38	18°43	11°56	W 20
T 21	0 0 22	28°12'53	29°29	28°45	4°50	22°40	1°27	13°38	8°31	13°33	10°47	19°52	20°35	18°50	12° 4	T 21
F 22	0 4 19	29°11'36	11♏58	0♏34	6° 2	23°18	1°27	13°45	8°34	13°33	10°47	19°49	20°32	18°57	12°13	F 22
S 23	0 8 15	0♏10'21	24°45	2°21	7°13	23°57	1°27	13°52	8°37	13°33	10°46	19°46	20°28	19° 3	12°21	S 23
S 24	0 12 12	1° 9'08	7♋52	4° 7	8°25	24°35	1°26	13°59	8°40	13°33	10°46	19°44	20°25	19°10	12°29	S 24
M 25	0 16 9	2° 7'57	21°18	5°53	9°36	25°14	1°25	14° 6	8°43	13°33	10°46	19°41	20°22	19°17	12°38	M 25
T 26	0 20 5	3° 6'48	5♏ 3	7°37	10°48	25°52	1°24	14°14	8°47	13°32	10°45	19°40	20°19	19°23	12°46	T 26
W 27	0 24 2	4° 5'40	19° 3	9°21	11°59	26°31	1°22	14°21	8°50	13°32	10°45	19°D40	20°16	19°30	12°54	W 27
T 28	0 27 58	5° 4'35	3♏15	11° 4	13°11	27°10	1°21	14°28	8°53	13°32	10°45	19°40	20°12	19°37	13° 2	T 28
F 29	0 31 55	6° 3'32	17°34	12°45	14°22	27°48	1°19	14°36	8°56	13°31	10°44	19°41	20° 9	19°43	13°10	F 29
S 30	0 35 51	7♏ 2'32	1♏57	14♏26	15♏33	28♏27	1♏17	14♏43	9♏ 0	13♏31	10♏44	19♏42	20♏ 6	19♏50	13♏19	S 30

Delta T = -4.88 sec

OCTOBER 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
S 1	0 39 48	8♏ 1'34	16♏18	16♏ 6	16♏44	29♏ 6	1°R15	14♏50	9♏ 3	13°R30	10°R43	19♏43	20♏ 3	19♏57	13♏27	S 1
M 2	0 43 44	9° 0'38	0♏35	17°46	17°56	29°44	1♏13	14°58	9° 6	13♏30	10♏43	19°43	20° 0	20° 4	13°35	M 2
T 3	0 47 41	9°59'44	14°45	19°24	19° 7	0♏23	1°10	15° 5	9°10	13°29	10°43	19°R43	19°57	20°10	13°43	T 3
W 4	0 51 38	10°58'53	28°46	21° 2	20°18	1° 2	1° 8	15°12	9°13	13°29	10°42	19°43	19°53	20°17	13°51	W 4
T 5	0 55 34	11°58'05	12♏37	22°38	21°29	1°41	1° 5	15°20	9°17	13°28	10°42	19°42	19°50	20°24	13°59	T 5
F 6	0 59 31	12°57'18	26°16	24°14	22°40	2°20	1° 2	15°27	9°20	13°27	10°41	19°41	19°47	20°30	14° 7	F 6
S 7	1 3 27	13°56'34	9♏42	25°50	23°51	2°58	0°58	15°34	9°23	13°27	10°40	19°41	19°44	20°37	14°15	S 7
S 8	1 7 24	14°55'51	22°54	27°24	25° 1	3°37	0°55	15°42	9°27	13°26	10°40	19°40	19°41	20°44	14°22	S 8
M 9	1 11 20	15°55'11	5♏53	28°58	26°12	4°16	0°51	15°49	9°30	13°25	10°39	19°40	19°37	20°50	14°30	M 9
T 10	1 15 17	16°54'33	18°38	0♏31	27°23	4°55	0°47	15°56	9°34	13°25	10°39	19°D40	19°34	20°57	14°38	T 10
W 11	1 19 13	17°53'57	1♏ 9	2° 3	28°34	5°34	0°43	16° 4	9°38	13°24	10°38	19°40	19°31	21° 4	14°46	W 11
T 12	1 23 10	18°53'24	13°27	3°35	29°44	6°13	0°39	16°11	9°41	13°23	10°37	19°40	19°28	21°11	14°53	T 12
F 13	1 27 6	19°52'52	25°34	5° 6	0♏55	6°52	0°34	16°18	9°45	13°22	10°37	19°R40	19°25	21°17	15° 1	F 13
S 14	1 31 3	20°52'22	7♏33	6°36	2° 5	7°31	0°30	16°26	9°48	13°21	10°36	19°40	19°22	21°24	15° 9	S 14
S 15	1 35 0	21°51'54	19°26	8° 6	3°16	8°10	0°25	16°33	9°52	13°20	10°35	19°39	19°18	21°31	15°16	S 15
M 16	1 38 56	22°51'28	1♏16	9°34	4°26	8°49	0°20	16°40	9°55	13°19	10°35	19°39	19°15	21°37	15°24	M 16
T 17	1 42 53	23°51'03	13°10	11° 2	5°36	9°28	0°15	16°48	9°59	13°18	10°34	19°39	19°12	21°44	15°31	T 17
W 18	1 46 49	24°50'40	25° 9	12°30	6°47	10° 7	0°10	16°55	10° 3	13°18	10°33	19°D39	19° 9	21°51	15°39	W 18
T 19	1 50 46	25°50'19	7♏20	13°57	7°57	10°46	0° 4	17° 2	10° 6	13°17	10°33	19°39	19° 6	21°58	15°46	T 19
F 20	1 54 42	26°50'00	19°47	15°23	9° 7	11°25	29♏59	17°10	10°10	13°15	10°32	19°39	19° 3	22° 4	15°53	F 20
S 21	1 58 39	27°49'42	2♏34	16°48	10°17	12° 4	29°53	17°17	10°14	13°14	10°31	19°40	18°59	22°11	16° 1	S 21
S 22	2 2 35	28°49'27	15°44	18°12	11°27	12°43	29°47	17°24	10°17	13°13	10°30	19°41	18°56	22°18	16° 8	S 22
M 23	2 6 32	29°49'12	29°18	19°36	12°36	13°22	29°41	17°31	10°21	13°12	10°29	19°42	18°53	22°24	16°15	M 23
T 24	2 10 29	0♏49'00	13♏16	20°58	13°46	14° 1	29°35	17°39	10°25	13°11	10°28	19°R42	18°50	22°31	16°22	T 24
W 25	2 14 25	1°48'50	27°36	22°20	14°56	14°40	29°28	17°46	10°29	13°10	10°28	19°42	18°47	22°38	16°29	W 25
T 26	2 18 22	2°48'41	12♏13	23°41	16° 5	15°19	29°22	17°53	10°32	13° 9	10°27	19°42	18°43	22°44	16°36	T 26
F 27	2 22 18	3°48'35	27° 1	25° 0	17°15	15°59	29°15	18° 0	10°36	13° 7	10°26	19°40	18°40	22°51	16°43	F 27
S 28	2 26 15	4°48'31	11♏51	26°19	18°24	16°38	29° 8	18° 7	10°40	13° 6	10°25	19°38	18°37	22°58	16°50	S 28
S 29	2 30 11	5°48'28	26°37	27°36	19°33	17°17	29° 1	18°14	10°44	13° 5	10°24	19°36	18°34	23° 5	16°57	S 29
M 30	2 34 8	6°48'29	11♏11	28°52	20°42	17°56	28°54	18°22	10°47	13° 4	10°23	19°35	18°31	23°11	17° 3	M 30
T 31	2 38 4	7♏48'31	25♏30	0♏ 7	21♏51	18♏36	28♏47	18♏29	10♏51	13♏ 2	10♏22	19♏33	18♏28	23♏18	17♏10	T 31

Delta T = -4.90 sec

ASTRODIENST EPHEMERIS for the year 1893

geocentric

NOVEMBER 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
W 1	2 42 1	8♂48'35	9♂30	1♂19	23♂0	19♂15	28♂40	18♂36	10♂55	13♂R 1	10♂R21	19♂D33	18♂Y24	23♂25	17♂16	W 1
T 2	2 45 58	9°48'42	23°11	2°30	24° 9	19°54	28♂33	18°43	10°59	13♂II 0	10♂II20	19♂Y33	18°21	23°31	17°23	T 2
F 3	2 49 54	10°48'50	6♂34	3°40	25°18	20°34	28°25	18°50	11° 2	12°58	10°19	19°35	18°18	23°38	17°29	F 3
S 4	2 53 51	11°49'01	19°40	4°46	26°26	21°13	28°18	18°57	11° 6	12°57	10°18	19°36	18°15	23°45	17°36	S 4
S 5	2 57 47	12°49'13	2♂30	5°51	27°35	21°52	28°10	19° 4	11°10	12°56	10°17	19°38	18°12	23°52	17°42	S 5
M 6	3 1 44	13°49'28	15° 7	6°52	28°43	22°32	28° 3	19°11	11°14	12°54	10°16	19°R39	18° 9	23°58	17°48	M 6
T 7	3 5 40	14°49'44	27°33	7°50	29°51	23°11	27°55	19°18	11°17	12°53	10°15	19°38	18° 5	24° 5	17°54	T 7
W 8	3 9 37	15°50'03	9♂49	8°45	0♂59	23°51	27°47	19°24	11°21	12°51	10°14	19°37	18° 2	24°12	18° 1	W 8
T 9	3 13 33	16°50'23	21°57	9°36	2° 7	24°30	27°39	19°31	11°25	12°50	10°13	19°34	17°59	24°18	18° 7	T 9
F 10	3 17 30	17°50'45	3♂57	10°23	3°15	25°10	27°31	19°38	11°29	12°48	10°12	19°30	17°56	24°25	18°12	F 10
S 11	3 21 27	18°51'08	15°52	11° 4	4°22	25°49	27°23	19°45	11°32	12°47	10°11	19°24	17°53	24°32	18°18	S 11
S 12	3 25 23	19°51'33	27°44	11°40	5°30	26°29	27°15	19°51	11°36	12°45	10°10	19°19	17°49	24°39	18°24	S 12
M13	3 29 20	20°52'00	9♂34	12°10	6°37	27° 8	27° 7	19°58	11°40	12°44	10° 9	19°13	17°46	24°45	18°30	M13
T 14	3 33 16	21°52'28	21°26	12°33	7°44	27°48	26°59	20° 5	11°43	12°42	10° 8	19° 8	17°43	24°52	18°35	T 14
W15	3 37 13	22°52'57	3♂24	12°48	8°51	28°28	26°51	20°11	11°47	12°41	10° 7	19° 5	17°40	24°59	18°41	W15
T 16	3 41 9	23°53'28	15°32	12°R55	9°58	29° 7	26°43	20°18	11°51	12°39	10° 6	19° 3	17°37	25° 5	18°46	T 16
F 17	3 45 6	24°54'00	27°53	12°52	11° 5	29°47	26°34	20°24	11°55	12°37	10° 5	19°D 3	17°34	25°12	18°52	F 17
S 18	3 49 3	25°54'33	10♂33	12°40	12°11	0♂27	26°26	20°31	11°58	12°36	10° 4	19° 4	17°30	25°19	18°57	S 18
S 19	3 52 59	26°55'07	23°37	12°18	13°17	1° 6	26°18	20°37	12° 2	12°34	10° 3	19° 5	17°27	25°26	19° 2	S 19
M20	3 56 56	27°55'43	7♂Y 7	11°45	14°23	1°46	26°10	20°44	12° 6	12°33	10° 2	19° 7	17°24	25°32	19° 7	M20
T 21	4 0 52	28°56'20	21° 5	11° 1	15°29	2°26	26° 2	20°50	12° 9	12°31	10° 0	19°R 7	17°21	25°39	19°12	T 21
W22	4 4 49	29°56'58	5♂30	10° 7	16°35	3° 6	25°54	20°56	12°13	12°29	9°59	19° 6	17°18	25°46	19°17	W22
T 23	4 8 45	0♂57'37	20°20	9° 4	17°40	3°46	25°45	21° 3	12°16	12°28	9°58	19° 3	17°15	25°52	19°22	T 23
F 24	4 12 42	1°58'18	5♂26	7°52	18°45	4°25	25°37	21° 9	12°20	12°26	9°57	18°58	17°11	25°59	19°26	F 24
S 25	4 16 38	2°59'00	20°40	6°35	19°50	5° 5	25°29	21°15	12°24	12°24	9°56	18°51	17° 8	26° 6	19°31	S 25
S 26	4 20 35	3°59'43	5♂50	5°14	20°54	5°45	25°21	21°21	12°27	12°23	9°55	18°44	17° 5	26°13	19°36	S 26
M27	4 24 32	5° 0'28	20°47	3°51	21°59	6°25	25°13	21°27	12°31	12°21	9°54	18°37	17° 2	26°19	19°40	M27
T 28	4 28 28	6° 1'15	5♂24	2°30	23° 3	7° 5	25° 5	21°33	12°34	12°19	9°52	18°32	16°59	26°26	19°44	T 28
W29	4 32 25	7° 2'03	19°35	1°14	24° 6	7°45	24°58	21°39	12°38	12°18	9°51	18°29	16°55	26°33	19°49	W29
T 30	4 36 21	8♂ 2'52	3♂19	0♂ 4	25♂10	8♂25	24♂50	21♂45	12♂41	12♂II16	9♂II50	18°D27	16♂Y52	26♂239	19♂53	T 30

Delta T = -4.92 sec

DECEMBER 1893

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	Day
F 1	4 40 18	9♂ 3'43	16♂38	29°R 3	26♂13	9♂ 5	24°R42	21♂50	12♂45	12°R14	9°R49	18♂Y27	16♂Y49	26♂46	19♂57	F 1
S 2	4 44 14	10° 4'35	29°34	28♂12	27°16	9°45	24♂34	21°56	12°48	12♂II13	9♂II48	18°28	16°46	26°53	20° 1	S 2
S 3	4 48 11	11° 5'28	12♂12	27°32	28°18	10°25	24°27	22° 2	12°52	12°11	9°47	18°R29	16°43	27° 0	20° 4	S 3
M 4	4 52 7	12° 6'23	24°35	27° 4	29°21	11° 5	24°19	22° 7	12°55	12° 9	9°46	18°29	16°40	27° 6	20° 8	M 4
T 5	4 56 4	13° 7'19	6♂46	26°47	0♂22	11°45	24°12	22°13	12°58	12° 7	9°44	18°27	16°36	27°13	20°12	T 5
W 6	5 0 1	14° 8'17	18°50	26°D41	1°24	12°25	24° 5	22°18	13° 2	12° 6	9°43	18°23	16°33	27°20	20°15	W 6
T 7	5 3 57	15° 9'15	0♂48	26°46	2°25	13° 5	23°58	22°24	13° 5	12° 4	9°42	18°16	16°30	27°26	20°19	T 7
F 8	5 7 54	16°10'14	12°42	27° 0	3°26	13°46	23°51	22°29	13° 8	12° 2	9°41	18° 6	16°27	27°33	20°22	F 8
S 9	5 11 50	17°11'15	24°34	27°23	4°26	14°26	23°44	22°34	13°12	12° 1	9°40	17°54	16°24	27°40	20°25	S 9
S 10	5 15 47	18°12'16	6♂26	27°54	5°26	15° 6	23°37	22°40	13°15	11°59	9°39	17°42	16°21	27°47	20°28	S 10
M11	5 19 43	19°13'18	18°18	28°32	6°25	15°46	23°30	22°45	13°18	11°57	9°38	17°30	16°17	27°53	20°31	M11
T 12	5 23 40	20°14'21	0♂13	29°16	7°24	16°27	23°24	22°50	13°21	11°56	9°37	17°19	16°14	28° 0	20°34	T 12
W13	5 27 36	21°15'24	12°12	0♂ 7	8°23	17° 7	23°17	22°55	13°25	11°54	9°35	17° 9	16°11	28° 7	20°36	W13
T 14	5 31 33	22°16'28	24°20	1° 2	9°21	17°47	23°11	23° 0	13°28	11°52	9°34	17° 3	16° 8	28°13	20°39	T 14
F 15	5 35 30	23°17'32	6♂39	2° 1	10°19	18°28	23° 5	23° 4	13°31	11°51	9°33	16°59	16° 5	28°20	20°42	F 15
S 16	5 39 26	24°18'36	19°13	3° 4	11°16	19° 8	22°59	23° 9	13°34	11°49	9°32	16°D58	16° 1	28°27	20°44	S 16
S 17	5 43 23	25°19'41	2♂Y 8	4°11	12°12	19°48	22°53	23°14	13°37	11°47	9°31	16°58	15°58	28°34	20°46	S 17
M18	5 47 19	26°20'46	15°28	5°20	13° 8	20°29	22°48	23°18	13°40	11°46	9°30	16°R58	15°55	28°40	20°48	M18
T 19	5 51 16	27°21'51	29°15	6°32	14° 3	21° 9	22°42	23°23	13°43	11°44	9°29	16°58	15°52	28°47	20°50	T 19
W20	5 55 12	28°22'57	13♂31	7°47	14°58	21°50	22°37	23°27	13°46	11°42	9°28	16°55	15°49	28°54	20°52	W20
T 21	5 59 9	29°24'03	28°14	9° 3	15°52	22°30	22°32	23°32	13°49	11°41	9°27	16°50	15°46	29° 0	20°54	T 21
F 22	6 3 5	0♂25'09	13♂II21	10°21	16°45	23°11	22°27	23°36	13°52	11°39	9°26	16°42	15°42	29° 7	20°56	F 22
S 23	6 7 2	1°26'15	28°41	11°40	17°38	23°51	22°22	23°40	13°55	11°38	9°25	16°32	15°39	29°14	20°57	S 23
S 24	6 10 59	2°27'22	14♂ 3	13° 1	18°30	24°32	22°17	23°44	13°57	11°36	9°23	16°21	15°36	29°21	20°59	S 24
M25	6 14 55	3°28'30	29°16	14°23	19°21	25°12	22°13	23°48	14° 0	11°34	9°22	16°10	15°33	29°27	21° 0	M25
T 26	6 18 52	4°29'37	14♂ 9	15°46	20°11	25°53	22° 9	23°52	14° 3	11°33	9°21	16° 0	15°30	29°34	21° 1	T 26
W27	6 22 48	5°30'45	28°35	17°10	21° 1	26°33	22° 5	23°56	14° 6	11°31	9°20	15°53	15°27	29°41	21° 2	W27
T 28	6 26 45	6°31'54	12♂30	18°35	21°49	27°14	22° 1	24° 0	14° 8	11°30	9°19	15°49	15°23	29°48	21° 3	T 28
F 29	6 30 41	7°33'02	25°56	20° 1	22°37	27°55	21°57	24° 3	14°11	11°28	9°18	15°47	15°20	29°54	21° 4	F 29
S 30	6 34 38	8°34'12	8♂55	21°27	23°24	28°35	21°54	24° 7	14°13	11°27	9°17	15°47	15°17	0♂ 1	21° 5	S 30
S 31	6 38 35	9♂35'21	21♂31	22♂54	24♂10	29♂16	21♂50	24♂11	14♂16	11♂II25	9♂II16	15♂Y47	15♂Y14	0♂ 8	21♂ 6	S 31

Delta T = -4.94 sec