

SWISS EPHEMERIS for the year 1897

JANUARY 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	6 43 37	10°53'32	10°57	28°46	22°57	13°R 9	10°R 9	27°M10	27°M25	18°R18	12°R14	15°R43	17°R 9	28°21	11°M12
S 2	6 47 33	11°54'43	25°23	0°9	24° 8	12°II57	10°M 8	27°16	27°28	18°II17	12°II13	15°R37	17° 5	2°27	11°18
S 3	6 51 30	12°55'54	9°38	1°29	25°18	12°46	10° 6	27°22	27°31	18°15	12°12	15°33	17° 2	2°34	11°24
M 4	6 55 26	13°57'06	23°36	2°45	26°29	12°35	10° 5	27°27	27°34	18°14	12°11	15°29	16°59	2°41	11°29
T 5	6 59 23	14°58'17	7°13	3°58	27°40	12°26	10° 3	27°33	27°36	18°12	12°10	15°27	16°56	2°48	11°35
W 6	7 3 20	15°59'27	20°28	5° 6	28°50	12°17	10° 1	27°38	27°39	18°11	12° 9	15°D27	16°53	2°54	11°40
T 7	7 7 16	17° 0'38	3°21	6° 9	0°X 1	12° 9	9°58	27°44	27°42	18° 9	12° 8	15°28	16°50	3° 1	11°46
F 8	7 11 13	18° 1'47	15°53	7° 5	1°11	12° 2	9°56	27°49	27°45	18° 8	12° 7	15°30	16°46	3° 8	11°51
S 9	7 15 9	19° 2'57	28° 8	7°55	2°21	11°55	9°53	27°55	27°47	18° 6	12° 7	15°32	16°43	3°14	11°56
S 10	7 19 6	20° 4'06	10°V11	8°37	3°31	11°50	9°50	28° 0	27°50	18° 5	12° 6	15°33	16°40	3°21	12° 1
M11	7 23 2	21° 5'14	22° 6	9°10	4°41	11°45	9°47	28° 5	27°53	18° 4	12° 5	15°R33	16°37	3°28	12° 6
T12	7 26 59	22° 6'21	3°R58	9°33	5°50	11°41	9°44	28°10	27°55	18° 2	12° 4	15°33	16°34	3°35	12°11
W13	7 30 55	23° 7'28	15°52	9°46	7° 0	11°38	9°40	28°15	27°58	18° 1	12° 3	15°31	16°31	3°41	12°15
T14	7 34 52	24° 8'35	27°52	9°R48	8° 9	11°36	9°37	28°21	28° 0	18° 0	12° 2	15°28	16°27	3°48	12°20
F15	7 38 49	25° 9'40	10°II 2	9°38	9°19	11°35	9°33	28°25	28° 3	17°58	12° 2	15°25	16°24	3°55	12°25
S16	7 42 45	26°10'45	22°25	9°16	10°28	11°D34	9°29	28°30	28° 5	17°57	12° 1	15°22	16°21	4° 1	12°29
S17	7 46 42	27°11'49	5°R 3	8°43	11°37	11°34	9°25	28°35	28° 7	17°56	12° 0	15°19	16°18	4° 8	12°33
M18	7 50 38	28°12'53	17°57	7°59	12°45	11°35	9°20	28°40	28°10	17°55	11°59	15°17	16°15	4°15	12°38
T19	7 54 35	29°13'56	1°R 8	7° 5	13°54	11°37	9°16	28°45	28°12	17°54	11°58	15°15	16°11	4°22	12°42
W20	7 58 31	0°14'58	14°34	6° 2	15° 2	11°39	9°11	28°49	28°14	17°52	11°58	15°D15	16° 8	4°28	12°46
T21	8 2 28	1°15'59	28°13	4°53	16°10	11°42	9° 6	28°54	28°16	17°51	11°57	15°15	16° 5	4°35	12°50
F22	8 6 24	2°17'00	12°M 3	3°39	17°18	11°46	9° 1	28°58	28°18	17°50	11°56	15°16	16° 2	4°42	12°54
S23	8 10 21	3°18'00	26° 2	2°23	18°26	11°50	8°56	29° 3	28°21	17°49	11°56	15°17	15°59	4°48	12°57
S24	8 14 18	4°19'00	10°R 7	1° 6	19°34	11°56	8°51	29° 7	28°23	17°48	11°55	15°18	15°56	4°55	13° 1
M25	8 18 14	5°19'59	24°17	29°R52	20°41	12° 2	8°46	29°11	28°25	17°47	11°54	15°19	15°52	5° 2	13° 5
T26	8 22 11	6°20'58	8°M28	28°42	21°48	12° 8	8°40	29°15	28°27	17°46	11°54	15°R19	15°49	5° 9	13° 8
W27	8 26 7	7°21'56	22°39	27°38	22°55	12°15	8°34	29°19	28°28	17°45	11°53	15°19	15°46	5°15	13°11
T28	8 30 4	8°22'53	6°R48	26°41	24° 2	12°23	8°28	29°23	28°30	17°44	11°53	15°18	15°43	5°22	13°15
F29	8 34 0	9°23'50	20°51	25°52	25° 8	12°32	8°22	29°27	28°32	17°43	11°52	15°17	15°40	5°29	13°18
S30	8 37 57	10°24'46	4°R47	25°11	26°14	12°41	8°16	29°31	28°34	17°42	11°51	15°17	15°37	5°36	13°21
S31	8 41 53	11°25'41	18°R32	24°R39	27°R20	12°II51	8°M10	29°M35	28°M36	17°II41	11°II51	15°R16	15°R33	5°R42	13°M24

Delta T = -5.84 sec.

FEBRUARY 1897

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	8 45 50	12°26'35	2°R 5	24°R15	28°R26	13°II 1	8°R 3	29°M38	28°M37	17°R40	11°R50	15°R16	15°R30	5°R49	13°M27
T 2	8 49 47	13°27'28	15°22	24°R 0	29°32	13°12	7°M57	29°42	28°39	17°II40	11°II50	15°D16	15°27	5°56	13°29
W 3	8 53 43	14°28'20	28°24	23°D53	0°V37	13°23	7°50	29°45	28°40	17°39	11°50	15°R16	15°24	6° 2	13°32
T 4	8 57 40	15°29'11	11°R 9	23°54	1°42	13°35	7°44	29°49	28°42	17°38	11°49	15°R16	15°21	6° 9	13°34
F 5	9 1 36	16°30'00	23°38	24° 2	2°46	13°48	7°37	29°52	28°43	17°37	11°49	15°16	15°17	6°16	13°37
S 6	9 5 33	17°30'48	5°V53	24°16	3°51	14° 1	7°30	29°55	28°45	17°37	11°48	15°16	15°14	6°23	13°39
S 7	9 9 29	18°31'34	17°57	24°37	4°55	14°15	7°23	29°58	28°46	17°36	11°48	15°15	15°11	6°29	13°41
M 8	9 13 26	19°32'19	29°53	25° 4	5°58	14°29	7°16	0°R 1	28°47	17°35	11°48	15°15	15° 8	6°36	13°43
T 9	9 17 22	20°33'02	11°R45	25°36	7° 2	14°44	7° 8	0° 4	28°49	17°35	11°47	15°14	15° 5	6°43	13°45
W10	9 21 19	21°33'44	23°39	26°13	8° 5	14°59	7° 1	0° 7	28°50	17°34	11°47	15°D14	15° 2	6°49	13°47
T11	9 25 16	22°34'24	5°II38	26°54	9° 7	15°15	6°54	0°10	28°51	17°34	11°47	15°15	14°58	6°56	13°48
F12	9 29 12	23°35'03	17°47	27°39	10°10	15°31	6°46	0°12	28°52	17°33	11°46	15°15	14°55	7° 3	13°50
S13	9 33 9	24°35'39	0°R11	28°28	11°12	15°47	6°39	0°15	28°53	17°33	11°46	15°16	14°52	7°10	13°51
S14	9 37 5	25°36'15	12°53	29°21	12°13	16° 4	6°31	0°17	28°54	17°32	11°46	15°17	14°49	7°16	13°53
M15	9 41 2	26°36'48	25°56	0°R16	13°14	16°22	6°23	0°20	28°55	17°32	11°46	15°18	14°46	7°23	13°54
T16	9 44 58	27°37'20	9°R21	1°15	14°15	16°40	6°16	0°22	28°56	17°31	11°45	15°R19	14°43	7°30	13°55
W17	9 48 55	28°37'50	23° 7	2°16	15°15	16°58	6° 8	0°24	28°57	17°31	11°45	15°18	14°39	7°37	13°56
T18	9 52 51	29°38'18	7°M12	3°20	16°15	17°17	6° 0	0°26	28°57	17°31	11°45	15°18	14°36	7°43	13°57
F19	9 56 48	0°R38'45	21°32	4°26	17°14	17°36	5°52	0°28	28°58	17°31	11°45	15°16	14°33	7°50	13°58
S20	10 0 45	1°39'10	6°R 1	5°34	18°13	17°55	5°45	0°30	28°59	17°30	11°45	15°14	14°30	7°57	13°58
S21	10 4 41	2°39'34	20°33	6°45	19°12	18°15	5°37	0°32	28°59	17°30	11°45	15°12	14°27	8° 3	13°59
M22	10 8 38	3°39'57	5°M 3	7°57	20°10	18°35	5°29	0°33	29° 0	17°30	11°45	15°10	14°23	8°10	13°59
T23	10 12 34	4°40'18	19°26	9°11	21° 7	18°56	5°21	0°35	29° 1	17°30	11°45	15° 8	14°20	8°17	13°59
W24	10 16 31	5°40'38	3°R39	10°27	22° 4	19°17	5°13	0°36	29° 1	17°30	11°D45	15°D 8	14°17	8°24	14° 0
T25	10 20 27	6°40'56	17°38	11°44	23° 0	19°38	5° 5	0°38	29° 1	17°30	11°45	15° 8	14°14	8°30	14°R 0
F26	10 24 24	7°41'13	1°R24	13° 3	23°56	20° 0	4°57	0°39	29° 2	17°D30	11°45	15° 9	14°11	8°37	14° 0
S27	10 28 20	8°41'29	14°57	14°23	24°51	20°22	4°49	0°40	29° 2	17°30	11°45	15°11	14° 8	8°44	14° 0
S28	10 32 17	9°41'43	28°R16	15°R45	25°V45	20°II44	4°M42	0°R41	29°M 2	17°II30	11°II45	15°R12	14°R 4	8°R51	13°M59

Delta T = -5.76 sec.

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SWISS EPHEMERIS for the year 1897

MARCH 1897

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
M 1	10 36 14	10♋41'55	11♏22	17♍8	26♃39	21♂6	4°R34	0♁42	29♁2	17♂30	11♂45	15°R13	14♏1	8♁57	13°R59	
T 2	10 40 10	11°42'06	24°16	18°33	27°32	21°29	4♁26	0°43	29°2	17°30	11°45	15°R13	13°58	9°4	13♁58	
W 3	10 44 7	12°42'15	6♋58	19°58	28°25	21°52	4°18	0°44	29°3	17°30	11°45	15°11	13°55	9°11	13°58	
T 4	10 48 3	13°42'22	19°28	21°26	29°17	22°16	4°11	0°44	29°R3	17°30	11°45	15°8	13°52	9°17	13°57	
F 5	10 52 0	14°42'27	1♃47	22°54	0♁8	22°39	4°3	0°45	29°2	17°30	11°46	15°3	13°49	9°24	13°56	
S 6	10 55 56	15°42'30	13°57	24°23	0°58	23°3	3°55	0°45	29°2	17°31	11°46	14°58	13°45	9°31	13°55	
S 7	10 59 53	16°42'31	25°58	25°54	1°47	23°28	3°48	0°46	29°2	17°31	11°46	14°52	13°42	9°38	13°54	
M 8	11 3 49	17°42'30	7♁53	27°26	2°36	23°52	3°40	0°46	29°2	17°31	11°46	14°46	13°39	9°44	13°53	
T 9	11 7 46	18°42'27	19°45	28°59	3°24	24°17	3°33	0°46	29°2	17°32	11°47	14°42	13°36	9°51	13°52	
W10	11 11 43	19°42'22	1♂37	0♋34	4°11	24°42	3°25	0°R46	29°1	17°32	11°47	14°38	13°33	9°58	13°50	
T11	11 15 39	20°42'15	13°34	2°9	4°57	25°7	3°18	0°46	29°1	17°32	11°47	14°37	13°29	10°4	13°49	
F12	11 19 36	21°42'05	25°40	3°46	5°42	25°33	3°11	0°46	29°1	17°33	11°48	14°D36	13°26	10°11	13°47	
S13	11 23 32	22°41'53	8♁1	5°24	6°25	25°59	3°4	0°45	29°0	17°33	11°48	14°37	13°23	10°18	13°45	
S14	11 27 29	23°41'39	20°40	7°3	7°8	26°24	2°57	0°45	29°0	17°34	11°48	14°39	13°20	10°25	13°44	
M15	11 31 25	24°41'23	3♁42	8°43	7°50	26°51	2°50	0°45	28°59	17°35	11°49	14°40	13°17	10°31	13°42	
T16	11 35 22	25°41'05	17°11	10°24	8°31	27°17	2°43	0°44	28°58	17°35	11°49	14°R41	13°14	10°38	13°40	
W17	11 39 18	26°40'44	1♁6	12°7	9°10	27°44	2°37	0°43	28°58	17°36	11°50	14°40	13°10	10°45	13°38	
T18	11 43 15	27°40'21	15°26	13°51	9°49	28°10	2°30	0°43	28°57	17°36	11°50	14°36	13°7	10°52	13°35	
F19	11 47 12	28°39'56	0♁8	15°36	10°26	28°37	2°24	0°42	28°56	17°37	11°51	14°31	13°4	10°58	13°33	
S20	11 51 8	29°39'29	15°3	17°22	11°1	29°5	2°17	0°41	28°55	17°38	11°51	14°25	13°1	11°5	13°31	
S21	11 55 5	0♃39'00	0♁3	19°10	11°36	29°32	2°11	0°40	28°55	17°39	11°52	14°18	12°58	11°12	13°28	
M22	11 59 1	1°38'29	15°0	20°59	12°9	0♁0	2°5	0°39	28°54	17°39	11°52	14°11	12°54	11°18	13°26	
T23	12 2 58	2°37'57	29°43	22°49	12°40	0°27	1°59	0°37	28°53	17°40	11°53	14°5	12°51	11°25	13°23	
W24	12 6 54	3°37'22	14♁9	24°41	13°10	0°55	1°53	0°36	28°52	17°41	11°53	14°2	12°48	11°32	13°20	
T25	12 10 51	4°36'47	28°13	26°34	13°38	1°23	1°47	0°34	28°51	17°42	11°54	14°0	12°45	11°39	13°17	
F26	12 14 47	5°36'09	11♁55	28°28	14°5	1°52	1°42	0°33	28°49	17°43	11°55	14°D0	12°42	11°45	13°14	
S27	12 18 44	6°35'29	25°17	0♃24	14°30	2°20	1°37	0°31	28°48	17°44	11°55	14°1	12°39	11°52	13°11	
S28	12 22 41	7°34'48	8♏20	2°20	14°53	2°49	1°31	0°30	28°47	17°45	11°56	14°R2	12°35	11°59	13°8	
M29	12 26 37	8°34'05	21°7	4°18	15°14	3°17	1°26	0°28	28°46	17°46	11°57	14°1	12°32	12°5	13°5	
T30	12 30 34	9°33'20	3♋42	6°17	15°34	3°46	1°21	0°26	28°44	17°47	11°57	13°59	12°29	12°12	13°2	
W31	12 34 30	10♃32'33	16♋6	8♃18	15♁52	4♁15	1♁16	0♁24	28♁43	17♂48	11♂58	13°R55	12°R26	12♁19	12♁59	

Delta T = -5.69 sec.

APRIL 1897

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
T 1	12 38 27	11♃31'44	28♋21	10♃19	16♁7	4♁45	1°R12	0°R22	28°R42	17♂49	11♂59	13°R48	12♏23	12♁26	12°R55	
F 2	12 42 23	12°30'53	10♃29	12°22	16°21	5°14	1♁7	0♁19	28♁40	17°50	12°0	13°R38	12°20	12°32	12♁52	
S 3	12 46 20	13°30'00	22°31	14°25	16°32	5°44	1°3	0°17	28°39	17°51	12°0	13°27	12°16	12°39	12°48	
S 4	12 50 16	14°29'05	4♁27	16°29	16°41	6°13	0°59	0°15	28°37	17°52	12°1	13°15	12°13	12°46	12°44	
M 5	12 54 13	15°28'08	16°20	18°34	16°48	6°43	0°55	0°12	28°36	17°54	12°2	13°4	12°10	12°53	12°41	
T 6	12 58 9	16°27'09	28°11	20°38	16°53	7°13	0°51	0°10	28°34	17°55	12°3	12°53	12°7	12°59	12°37	
W 7	13 2 6	17°26'07	10♂3	22°44	16°R55	7°43	0°48	0°7	28°32	17°56	12°4	12°45	12°4	13°6	12°33	
T 8	13 6 3	18°25'04	21°59	24°49	16°55	8°13	0°44	0°4	28°31	17°57	12°4	12°39	12°0	13°13	12°29	
F 9	13 9 59	19°23'58	4♁4	26°53	16°53	8°44	0°41	0°2	28°29	17°59	12°5	12°36	11°57	13°19	12°25	
S10	13 13 56	20°22'50	16°20	28°57	16°48	9°14	0°38	29♁59	28°27	18°0	12°6	12°D35	11°54	13°26	12°21	
S11	13 17 52	21°21'39	28°55	1♁0	16°41	9°45	0°35	29°56	28°26	18°1	12°7	12°35	11°51	13°33	12°17	
M12	13 21 49	22°20'27	11♁52	3°2	16°31	10°15	0°32	29°53	28°24	18°3	12°8	12°R35	11°48	13°40	12°13	
T13	13 25 45	23°19'12	25°15	5°2	16°18	10°46	0°30	29°50	28°22	18°4	12°9	12°34	11°45	13°46	12°9	
W14	13 29 42	24°17'54	9♁7	7°0	16°3	11°17	0°27	29°47	28°20	18°6	12°10	12°32	11°41	13°53	12°5	
T15	13 33 38	25°16'35	23°29	8°56	15°46	11°48	0°25	29°43	28°18	18°7	12°11	12°27	11°38	14°0	12°0	
F16	13 37 35	26°15'13	8♁17	10°49	15°27	12°19	0°23	29°40	28°16	18°9	12°12	12°19	11°35	14°7	11°56	
S17	13 41 32	27°13'49	23°25	12°39	15°5	12°51	0°21	29°37	28°14	18°10	12°13	12°10	11°32	14°13	11°52	
S18	13 45 28	28°12'24	8♁42	14°26	14°40	13°22	0°20	29°33	28°12	18°12	12°14	11°59	11°29	14°20	11°47	
M19	13 49 25	29°10'56	23°57	16°9	14°14	13°53	0°18	29°30	28°10	18°13	12°15	11°49	11°26	14°27	11°43	
T20	13 53 21	0♁9'27	9♁1	17°48	13°46	14°25	0°17	29°26	28°8	18°15	12°16	11°40	11°22	14°33	11°39	
W21	13 57 18	1°7'56	23°43	19°24	13°16	14°57	0°16	29°23	28°6	18°17	12°17	11°33	11°19	14°40	11°34	
T22	14 1 14	2°6'24	7♁59	20°55	12°44	15°28	0°15	29°19	28°4	18°18	12°18	11°29	11°16	14°47	11°30	
F23	14 5 11	3°4'50	21°48	22°22	12°10	16°0	0°14	29°15	28°1	18°20	12°19	11°28	11°13	14°54	11°25	
S24	14 9 7	4°3'14	5♏10	23°45	11°36	16°32	0°14	29°11	27°59	18°22	12°21	11°27	11°10	15°0	11°21	
S25	14 13 4	5°1'37	18°10	25°3	11°0	17°4	0°13	29°8	27°57	18°23	12°22	11°27	11°6	15°7	11°16	
M26	14 17 1	5°59'58	0♋49	26°16	10°23	17°36	0°D13	29°4	27°55	18°25	12°23	11°26	11°3	15°14	11°12	
T27	14 20 57	6°58'17	13°14	27°25	9°46	18°9	0°13	29°0	27°53	18°27	12°24	11°23	11°0	15°20	11°7	
W28	14 24 54	7°56'35	25°27	28°28	9°9	18°41	0°14	28°56	27°50	18°29	12°25	11°18	10°57	15°27	11°2	
T29	14 28 50	8°54'51	7♃31	29°27	8°31	19°13	0°14	28°52	27°48	18°31	12°26	11°9	10°54	15°34	10°58	
F30	14 32 47	9♁53'06	19♃30	0♂21	7♁53	19♁46	0♁15	28♁48	27♁46	18♂32	12♂27	10°R57	10°R51	15♁41	10♁53	

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SWISS EPHEMERIS for the year 1897

MAY 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	14 36 43	10♈51'19	1♉25	1♊10	7♋16	20♌18	0♍15	28°R44	27°R43	18♎34	12♏29	10°R44	10♐47	15♑47	10°R49
S 2	14 40 40	11°49'31	13°18	1°54	6♌39	20°51	0°16	28♎39	27♎41	18°36	12°30	10♐30	10°44	15°54	10♎44
M 3	14 44 36	12°47'40	25° 9	2°32	6° 3	21°24	0°17	28°35	27°38	18°38	12°31	10°16	10°41	16° 1	10°39
T 4	14 48 33	13°45'48	7♊ 2	3° 6	5°28	21°56	0°19	28°31	27°36	18°40	12°32	10° 3	10°38	16° 8	10°35
W 5	14 52 30	14°43'54	18°56	3°34	4°54	22°29	0°20	28°27	27°34	18°42	12°34	9°52	10°35	16°14	10°30
T 6	14 56 26	15°41'59	0♉55	3°57	4°22	23° 2	0°22	28°22	27°31	18°44	12°35	9°45	10°31	16°21	10°26
F 7	15 0 23	16°40'02	13° 2	4°14	3°51	23°35	0°24	28°18	27°29	18°46	12°36	9°40	10°28	16°28	10°21
S 8	15 4 19	17°38'02	25°20	4°27	3°23	24° 8	0°26	28°14	27°26	18°48	12°37	9°38	10°25	16°34	10°17
S 9	15 8 16	18°36'01	7♎53	4°34	2°56	24°42	0°28	28° 9	27°24	18°50	12°39	9°D37	10°22	16°41	10°12
M10	15 12 12	19°33'58	20°46	4°R36	2°31	25°15	0°30	28° 5	27°21	18°52	12°40	9°R37	10°19	16°48	10° 8
T 11	15 16 9	20°31'53	4♏ 3	4°33	2° 8	25°48	0°33	28° 1	27°19	18°54	12°41	9°37	10°16	16°55	10° 3
W12	15 20 5	21°29'47	17°48	4°26	1°47	26°22	0°36	27°56	27°16	18°56	12°42	9°34	10°12	17° 1	9°59
T 13	15 24 2	22°27'38	2♌ 1	4°14	1°29	26°55	0°39	27°52	27°14	18°58	12°44	9°30	10° 9	17° 8	9°54
F 14	15 27 59	23°25'28	16°42	3°58	1°13	27°29	0°42	27°47	27°12	19° 0	12°45	9°23	10° 6	17°15	9°50
S 15	15 31 55	24°23'16	1♎44	3°37	1° 0	28° 2	0°45	27°43	27° 9	19° 2	12°46	9°14	10° 3	17°21	9°46
S 16	15 35 52	25°21'02	17° 1	3°14	0°49	28°36	0°48	27°38	27° 7	19° 4	12°48	9° 4	10° 0	17°28	9°41
M17	15 39 48	26°18'48	2♌21	2°47	0°40	29°10	0°52	27°34	27° 4	19° 6	12°49	8°54	9°57	17°35	9°37
T 18	15 43 45	27°16'32	17°32	2°17	0°34	29°43	0°56	27°29	27° 1	19° 8	12°50	8°45	9°53	17°42	9°33
W19	15 47 41	28°14'14	2♌24	1°46	0°30	0♉17	1° 0	27°25	26°59	19°10	12°52	8°38	9°50	17°48	9°29
T 20	15 51 38	29°11'56	16°51	1°12	0°D29	0°51	1° 4	27°20	26°56	19°12	12°53	8°34	9°47	17°55	9°25
F 21	15 55 34	0♊ 9'36	0♐49	0°38	0°29	1°25	1° 8	27°16	26°54	19°14	12°54	8°33	9°44	18° 2	9°20
S 22	15 59 31	1° 7'15	14°19	0° 4	0°33	1°59	1°12	27°12	26°52	19°16	12°56	8°D33	9°41	18° 9	9°16
S 23	16 3 28	2° 4'54	27°22	29♌30	0°38	2°33	1°17	27° 7	26°49	19°19	12°57	8°R33	9°37	18°15	9°12
M24	16 7 24	3° 2'31	10♋ 3	28°57	0°46	3° 7	1°22	27° 3	26°47	19°21	12°58	8°33	9°34	18°22	9° 9
T 25	16 11 21	4° 0'07	22°25	28°25	0°56	3°41	1°26	26°58	26°44	19°23	13° 0	8°31	9°31	18°29	9° 5
W26	16 15 17	4°57'43	4♏34	27°55	1° 8	4°16	1°31	26°54	26°42	19°25	13° 1	8°27	9°28	18°35	9° 1
T 27	16 19 14	5°55'17	16°34	27°27	1°22	4°50	1°37	26°49	26°39	19°27	13° 3	8°21	9°25	18°42	8°57
F 28	16 23 10	6°52'51	28°28	27° 3	1°38	5°24	1°42	26°45	26°37	19°30	13° 4	8°12	9°22	18°49	8°53
S 29	16 27 7	7°50'23	10♌20	26°41	1°56	5°59	1°47	26°41	26°34	19°32	13° 5	8° 2	9°18	18°56	8°50
S 30	16 31 3	8°47'55	22°12	26°24	2°16	6°33	1°53	26°36	26°32	19°34	13° 7	7°51	9°15	19° 2	8°46
M31	16 35 0	9♊45'26	4♊ 5	26♌10	2♌38	7♎ 8	1♏59	26♎32	26♎29	19♊36	13♊ 8	7♐40	9♐12	19♌ 9	8♎43

Delta T = -5.52 sec.

JUNE 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	16 38 57	10♊42'56	16♊ 1	26°R 0	3♌ 1	7♎42	2♏ 5	26°R28	26°R27	19♊38	13♊ 9	7°R30	9♐ 9	19♌16	8°R39
W 2	16 42 53	11°40'25	28° 2	25♌54	3°26	8°17	2°11	26♎23	26♎25	19°41	13°11	7♐22	9° 6	19°22	8♎36
T 3	16 46 50	12°37'53	10♉10	25°D53	3°53	8°52	2°17	26°19	26°22	19°43	13°12	7°16	9° 3	19°29	8°33
F 4	16 50 46	13°35'19	22°25	25°56	4°21	9°27	2°23	26°15	26°20	19°45	13°14	7°13	8°59	19°36	8°30
S 5	16 54 43	14°32'45	4♎51	26° 4	4°50	10° 1	2°30	26°11	26°17	19°47	13°15	7°D11	8°56	19°43	8°26
S 6	16 58 39	15°30'10	17°31	26°16	5°21	10°36	2°36	26° 7	26°15	19°50	13°16	7°12	8°53	19°49	8°23
M 7	17 2 36	16°27'33	0♏28	26°33	5°54	11°11	2°43	26° 3	26°13	19°52	13°18	7°13	8°50	19°56	8°21
T 8	17 6 33	17°24'55	13°44	26°54	6°27	11°46	2°50	25°59	26°11	19°54	13°19	7°R14	8°47	20° 3	8°18
W 9	17 10 29	18°22'16	27°23	27°19	7° 2	12°21	2°57	25°55	26° 8	19°56	13°20	7°13	8°43	20°10	8°15
T 10	17 14 26	19°19'36	11♌26	27°49	7°39	12°56	3° 4	25°51	26° 6	19°58	13°22	7°11	8°40	20°16	8°12
F 11	17 18 22	20°16'56	25°53	28°23	8°16	13°31	3°12	25°47	26° 4	20° 1	13°23	7° 7	8°37	20°23	8°10
S 12	17 22 19	21°14'14	10♎40	29° 2	8°55	14° 7	3°19	25°43	26° 2	20° 3	13°25	7° 2	8°34	20°30	8° 7
S 13	17 26 15	22°11'31	25°41	29°44	9°34	14°42	3°27	25°39	25°59	20° 5	13°26	6°56	8°31	20°36	8° 5
M14	17 30 12	23° 8'48	10♌48	0♊31	10°15	15°17	3°34	25°36	25°57	20° 7	13°27	6°49	8°28	20°43	8° 2
T 15	17 34 8	24° 6'04	25°50	1°21	10°57	15°52	3°42	25°32	25°55	20°10	13°29	6°43	8°24	20°50	8° 0
W16	17 38 5	25° 3'20	10♌39	2°15	11°39	16°28	3°50	25°28	25°53	20°12	13°30	6°39	8°21	20°57	7°58
T 17	17 42 2	26° 0'35	25° 7	3°13	12°23	17° 3	3°58	25°25	25°51	20°14	13°31	6°37	8°18	21° 3	7°56
F 18	17 45 58	26°57'49	9♐ 9	4°15	13° 7	17°39	4° 6	25°21	25°49	20°16	13°33	6°D37	8°15	21°10	7°54
S 19	17 49 55	27°55'04	22°44	5°21	13°53	18°14	4°14	25°18	25°47	20°19	13°34	6°37	8°12	21°17	7°52
S 20	17 53 51	28°52'18	5♋53	6°30	14°39	18°50	4°23	25°15	25°45	20°21	13°35	6°39	8° 9	21°23	7°50
M21	17 57 48	29°49'32	18°38	7°43	15°26	19°25	4°31	25°11	25°43	20°23	13°37	6°40	8° 5	21°30	7°49
T 22	18 1 44	0♉46'45	1♏ 4	9° 0	16°14	20° 1	4°40	25° 8	25°41	20°25	13°38	6°R41	8° 2	21°37	7°47
W23	18 5 41	1°43'59	13°14	10°20	17° 3	20°36	4°48	25° 5	25°39	20°27	13°39	6°40	7°59	21°44	7°46
T 24	18 9 37	2°41'13	25°14	11°43	17°52	21°12	4°57	25° 2	25°38	20°30	13°41	6°38	7°56	21°50	7°44
F 25	18 13 34	3°38'26	7♌ 8	13°10	18°42	21°48	5° 6	24°59	25°36	20°32	13°42	6°34	7°53	21°57	7°43
S 26	18 17 31	4°35'40	18°59	14°40	19°33	22°24	5°15	24°56	25°34	20°34	13°43	6°30	7°49	22° 4	7°42
S 27	18 21 27	5°32'54	0♊52	16°14	20°24	23° 0	5°24	24°53	25°32	20°36	13°45	6°24	7°46	22°11	7°41
M28	18 25 24	6°30'07	12°49	17°50	21°16	23°36	5°33	24°50	25°31	20°38	13°46	6°19	7°43	22°17	7°40
T 29	18 29 20	7°27'21	24°51	19°31	22° 8	24°12	5°43	24°48	25°29	20°41	13°47	6°14	7°40	22°24	7°39
W30	18 33 17	8♉24'35	7♉ 2	21♊14	23♌ 1	24♎48	5♏52	24♎45	25♎27	20♊43	13♊49	6♐11	7♐37	22♌31	7♎38

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SWISS EPHEMERIS for the year 1897

JULY 1897

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	18 37 13	9 <sup>h</sup> 21'48	19 <sup>h</sup> 22	23 <sup>h</sup> II 0	23 <sup>h</sup> ♂55	25 <sup>h</sup> ♂24	6 <sup>h</sup> ♂ 2	24 <sup>h</sup> R42	25 <sup>h</sup> R26	20 <sup>h</sup> II45	13 <sup>h</sup> II50	6 <sup>h</sup> R 8	7 <sup>h</sup> ♂34	22 <sup>h</sup> ♂37	7 <sup>h</sup> R38
F 2	18 41 10	10 <sup>h</sup> 19'01	1 <sup>h</sup> ♂52	24 <sup>h</sup> 50	24 <sup>h</sup> 49	26 <sup>h</sup> 0	6 <sup>h</sup> 11	24 <sup>h</sup> II40	25 <sup>h</sup> II24	20 <sup>h</sup> 47	13 <sup>h</sup> 51	6 <sup>h</sup> D 7	7 <sup>h</sup> 30	22 <sup>h</sup> 44	7 <sup>h</sup> II37
S 3	18 45 6	11 <sup>h</sup> 16'15	14 <sup>h</sup> 35	26 <sup>h</sup> 42	25 <sup>h</sup> 44	26 <sup>h</sup> 36	6 <sup>h</sup> 21	24 <sup>h</sup> 37	25 <sup>h</sup> 23	20 <sup>h</sup> 49	13 <sup>h</sup> 52	6 <sup>h</sup> ♂ 7	7 <sup>h</sup> 27	22 <sup>h</sup> 51	7 <sup>h</sup> 37
S 4	18 49 3	12 <sup>h</sup> 13'28	27 <sup>h</sup> 30	28 <sup>h</sup> 37	26 <sup>h</sup> 39	27 <sup>h</sup> 12	6 <sup>h</sup> 31	24 <sup>h</sup> 35	25 <sup>h</sup> 21	20 <sup>h</sup> 51	13 <sup>h</sup> 54	6 <sup>h</sup> 8	7 <sup>h</sup> 24	22 <sup>h</sup> 58	7 <sup>h</sup> 37
M 5	18 53 0	13 <sup>h</sup> 10'40	10 <sup>h</sup> ♂39	0 <sup>h</sup> ♂34	27 <sup>h</sup> 35	27 <sup>h</sup> 48	6 <sup>h</sup> 41	24 <sup>h</sup> 33	25 <sup>h</sup> 20	20 <sup>h</sup> 53	13 <sup>h</sup> 55	6 <sup>h</sup> 10	7 <sup>h</sup> 21	23 <sup>h</sup> 4	7 <sup>h</sup> 36
T 6	18 56 56	14 <sup>h</sup> 7'53	24 <sup>h</sup> 5	2 <sup>h</sup> 34	28 <sup>h</sup> 31	28 <sup>h</sup> 25	6 <sup>h</sup> 51	24 <sup>h</sup> 31	25 <sup>h</sup> 18	20 <sup>h</sup> 55	13 <sup>h</sup> 56	6 <sup>h</sup> 11	7 <sup>h</sup> 18	23 <sup>h</sup> 11	7 <sup>h</sup> D36
W 7	19 0 53	15 <sup>h</sup> 5'05	7 <sup>h</sup> ♂46	4 <sup>h</sup> 36	29 <sup>h</sup> 27	29 <sup>h</sup> 1	7 <sup>h</sup> 1	24 <sup>h</sup> 29	25 <sup>h</sup> 17	20 <sup>h</sup> 58	13 <sup>h</sup> 57	6 <sup>h</sup> 12	7 <sup>h</sup> 15	23 <sup>h</sup> 18	7 <sup>h</sup> 36
T 8	19 4 49	16 <sup>h</sup> 2'18	21 <sup>h</sup> 45	6 <sup>h</sup> 40	0 <sup>h</sup> II24	29 <sup>h</sup> 37	7 <sup>h</sup> 11	24 <sup>h</sup> 27	25 <sup>h</sup> 16	21 <sup>h</sup> 0	13 <sup>h</sup> 59	6 <sup>h</sup> R12	7 <sup>h</sup> 11	23 <sup>h</sup> 24	7 <sup>h</sup> 36
F 9	19 8 46	16 <sup>h</sup> 59'30	6 <sup>h</sup> II 0	8 <sup>h</sup> 46	1 <sup>h</sup> 22	0 <sup>h</sup> ♂14	7 <sup>h</sup> 21	24 <sup>h</sup> 25	25 <sup>h</sup> 15	21 <sup>h</sup> 2	14 <sup>h</sup> 0	6 <sup>h</sup> 11	7 <sup>h</sup> 8	23 <sup>h</sup> 31	7 <sup>h</sup> 37
S 10	19 12 42	17 <sup>h</sup> 56'42	20 <sup>h</sup> 29	10 <sup>h</sup> 52	2 <sup>h</sup> 20	0 <sup>h</sup> 50	7 <sup>h</sup> 31	24 <sup>h</sup> 23	25 <sup>h</sup> 13	21 <sup>h</sup> 4	14 <sup>h</sup> 1	6 <sup>h</sup> 10	7 <sup>h</sup> 5	23 <sup>h</sup> 38	7 <sup>h</sup> 37
S 11	19 16 39	18 <sup>h</sup> 53'54	5 <sup>h</sup> ♂ 8	13 <sup>h</sup> 0	3 <sup>h</sup> 18	1 <sup>h</sup> 27	7 <sup>h</sup> 42	24 <sup>h</sup> 22	25 <sup>h</sup> 12	21 <sup>h</sup> 6	14 <sup>h</sup> 2	6 <sup>h</sup> 8	7 <sup>h</sup> 2	23 <sup>h</sup> 45	7 <sup>h</sup> 37
M12	19 20 35	19 <sup>h</sup> 51'06	19 <sup>h</sup> 51	15 <sup>h</sup> 9	4 <sup>h</sup> 17	2 <sup>h</sup> 3	7 <sup>h</sup> 52	24 <sup>h</sup> 20	25 <sup>h</sup> 11	21 <sup>h</sup> 8	14 <sup>h</sup> 3	6 <sup>h</sup> 6	6 <sup>h</sup> 59	23 <sup>h</sup> 51	7 <sup>h</sup> 38
T 13	19 24 32	20 <sup>h</sup> 48'19	4 <sup>h</sup> ♂31	17 <sup>h</sup> 18	5 <sup>h</sup> 15	2 <sup>h</sup> 40	8 <sup>h</sup> 3	24 <sup>h</sup> 18	25 <sup>h</sup> 10	21 <sup>h</sup> 10	14 <sup>h</sup> 4	6 <sup>h</sup> 4	6 <sup>h</sup> 55	23 <sup>h</sup> 58	7 <sup>h</sup> 38
W14	19 28 29	21 <sup>h</sup> 45'31	19 <sup>h</sup> 2	19 <sup>h</sup> 27	6 <sup>h</sup> 15	3 <sup>h</sup> 16	8 <sup>h</sup> 13	24 <sup>h</sup> 17	25 <sup>h</sup> 9	21 <sup>h</sup> 12	14 <sup>h</sup> 6	6 <sup>h</sup> 3	6 <sup>h</sup> 52	24 <sup>h</sup> 5	7 <sup>h</sup> 39
T 15	19 32 25	22 <sup>h</sup> 42'44	3 <sup>h</sup> ♂18	21 <sup>h</sup> 35	7 <sup>h</sup> 15	3 <sup>h</sup> 53	8 <sup>h</sup> 24	24 <sup>h</sup> 16	25 <sup>h</sup> 8	21 <sup>h</sup> 14	14 <sup>h</sup> 7	6 <sup>h</sup> D 2	6 <sup>h</sup> 49	24 <sup>h</sup> 11	7 <sup>h</sup> 40
F 16	19 36 22	23 <sup>h</sup> 39'58	17 <sup>h</sup> 13	23 <sup>h</sup> 44	8 <sup>h</sup> 15	4 <sup>h</sup> 30	8 <sup>h</sup> 35	24 <sup>h</sup> 14	25 <sup>h</sup> 7	21 <sup>h</sup> 16	14 <sup>h</sup> 8	6 <sup>h</sup> 2	6 <sup>h</sup> 46	24 <sup>h</sup> 18	7 <sup>h</sup> 41
S 17	19 40 18	24 <sup>h</sup> 37'12	0 <sup>h</sup> ♂46	25 <sup>h</sup> 52	9 <sup>h</sup> 15	5 <sup>h</sup> 6	8 <sup>h</sup> 46	24 <sup>h</sup> 13	25 <sup>h</sup> 6	21 <sup>h</sup> 18	14 <sup>h</sup> 9	6 <sup>h</sup> 3	6 <sup>h</sup> 43	24 <sup>h</sup> 25	7 <sup>h</sup> 42
S 18	19 44 15	25 <sup>h</sup> 34'26	13 <sup>h</sup> 56	27 <sup>h</sup> 59	10 <sup>h</sup> 16	5 <sup>h</sup> 43	8 <sup>h</sup> 57	24 <sup>h</sup> 12	25 <sup>h</sup> 5	21 <sup>h</sup> 20	14 <sup>h</sup> 10	6 <sup>h</sup> 4	6 <sup>h</sup> 40	24 <sup>h</sup> 32	7 <sup>h</sup> 43
M19	19 48 11	26 <sup>h</sup> 31'41	26 <sup>h</sup> 44	0 <sup>h</sup> ♂ 4	11 <sup>h</sup> 17	6 <sup>h</sup> 20	9 <sup>h</sup> 8	24 <sup>h</sup> 11	25 <sup>h</sup> 5	21 <sup>h</sup> 22	14 <sup>h</sup> 11	6 <sup>h</sup> 5	6 <sup>h</sup> 36	24 <sup>h</sup> 38	7 <sup>h</sup> 45
T 20	19 52 8	27 <sup>h</sup> 28'57	9 <sup>h</sup> ♂13	2 <sup>h</sup> 9	12 <sup>h</sup> 18	6 <sup>h</sup> 57	9 <sup>h</sup> 19	24 <sup>h</sup> 10	25 <sup>h</sup> 4	21 <sup>h</sup> 23	14 <sup>h</sup> 12	6 <sup>h</sup> 6	6 <sup>h</sup> 33	24 <sup>h</sup> 45	7 <sup>h</sup> 46
W21	19 56 5	28 <sup>h</sup> 26'13	21 <sup>h</sup> 26	4 <sup>h</sup> 13	13 <sup>h</sup> 20	7 <sup>h</sup> 34	9 <sup>h</sup> 30	24 <sup>h</sup> 10	25 <sup>h</sup> 3	21 <sup>h</sup> 25	14 <sup>h</sup> 13	6 <sup>h</sup> 6	6 <sup>h</sup> 30	24 <sup>h</sup> 52	7 <sup>h</sup> 47
T 22	20 0 1	29 <sup>h</sup> 23'31	3 <sup>h</sup> ♂28	6 <sup>h</sup> 15	14 <sup>h</sup> 22	8 <sup>h</sup> 11	9 <sup>h</sup> 41	24 <sup>h</sup> 9	25 <sup>h</sup> 3	21 <sup>h</sup> 27	14 <sup>h</sup> 14	6 <sup>h</sup> R 6	6 <sup>h</sup> 27	24 <sup>h</sup> 58	7 <sup>h</sup> 49
F 23	20 3 58	0 <sup>h</sup> ♂20'49	15 <sup>h</sup> 23	8 <sup>h</sup> 15	15 <sup>h</sup> 24	8 <sup>h</sup> 48	9 <sup>h</sup> 52	24 <sup>h</sup> 8	25 <sup>h</sup> 2	21 <sup>h</sup> 29	14 <sup>h</sup> 15	6 <sup>h</sup> 6	6 <sup>h</sup> 24	25 <sup>h</sup> 5	7 <sup>h</sup> 51
S 24	20 7 54	1 <sup>h</sup> 18'09	27 <sup>h</sup> 15	10 <sup>h</sup> 14	16 <sup>h</sup> 26	9 <sup>h</sup> 25	10 <sup>h</sup> 4	24 <sup>h</sup> 8	25 <sup>h</sup> 2	21 <sup>h</sup> 31	14 <sup>h</sup> 16	6 <sup>h</sup> 5	6 <sup>h</sup> 21	25 <sup>h</sup> 12	7 <sup>h</sup> 53
S 25	20 11 51	2 <sup>h</sup> 15'29	9 <sup>h</sup> II 9	12 <sup>h</sup> 12	17 <sup>h</sup> 29	10 <sup>h</sup> 2	10 <sup>h</sup> 15	24 <sup>h</sup> 8	25 <sup>h</sup> 1	21 <sup>h</sup> 33	14 <sup>h</sup> 17	6 <sup>h</sup> 5	6 <sup>h</sup> 17	25 <sup>h</sup> 19	7 <sup>h</sup> 54
M26	20 15 47	3 <sup>h</sup> 12'50	21 <sup>h</sup> 10	14 <sup>h</sup> 8	18 <sup>h</sup> 32	10 <sup>h</sup> 39	10 <sup>h</sup> 27	24 <sup>h</sup> 7	25 <sup>h</sup> 1	21 <sup>h</sup> 34	14 <sup>h</sup> 18	6 <sup>h</sup> 4	6 <sup>h</sup> 14	25 <sup>h</sup> 25	7 <sup>h</sup> 56
T 27	20 19 44	4 <sup>h</sup> 10'13	3 <sup>h</sup> ♂19	16 <sup>h</sup> 2	19 <sup>h</sup> 35	11 <sup>h</sup> 16	10 <sup>h</sup> 38	24 <sup>h</sup> 7	25 <sup>h</sup> 0	21 <sup>h</sup> 36	14 <sup>h</sup> 19	6 <sup>h</sup> 4	6 <sup>h</sup> 11	25 <sup>h</sup> 32	7 <sup>h</sup> 59
W28	20 23 40	5 <sup>h</sup> 7'36	15 <sup>h</sup> 39	17 <sup>h</sup> 54	20 <sup>h</sup> 39	11 <sup>h</sup> 53	10 <sup>h</sup> 50	24 <sup>h</sup> D 7	25 <sup>h</sup> 0	21 <sup>h</sup> 38	14 <sup>h</sup> 20	6 <sup>h</sup> 4	6 <sup>h</sup> 8	25 <sup>h</sup> 39	8 <sup>h</sup> 1
T 29	20 27 37	6 <sup>h</sup> 5'00	28 <sup>h</sup> 14	19 <sup>h</sup> 45	21 <sup>h</sup> 42	12 <sup>h</sup> 31	11 <sup>h</sup> 1	24 <sup>h</sup> 7	25 <sup>h</sup> 0	21 <sup>h</sup> 40	14 <sup>h</sup> 21	6 <sup>h</sup> D 4	6 <sup>h</sup> 5	25 <sup>h</sup> 46	8 <sup>h</sup> 3
F 30	20 31 34	7 <sup>h</sup> 2'25	11 <sup>h</sup> ♂ 2	21 <sup>h</sup> 34	22 <sup>h</sup> 46	13 <sup>h</sup> 8	11 <sup>h</sup> 13	24 <sup>h</sup> 7	24 <sup>h</sup> 59	21 <sup>h</sup> 41	14 <sup>h</sup> 22	6 <sup>h</sup> R 4	6 <sup>h</sup> 1	25 <sup>h</sup> 52	8 <sup>h</sup> 6
S 31	20 35 30	7 <sup>h</sup> ♂59'50	24 <sup>h</sup> ♂ 6	23 <sup>h</sup> ♂22	23 <sup>h</sup> II51	13 <sup>h</sup> ♂45	11 <sup>h</sup> ♂25	24 <sup>h</sup> II 7	24 <sup>h</sup> II59	21 <sup>h</sup> II43	14 <sup>h</sup> II23	6 <sup>h</sup> ♂ 4	5 <sup>h</sup> ♂58	25 <sup>h</sup> ♂59	8 <sup>h</sup> II 8

Delta T = -5.33 sec.

AUGUST 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	20 39 27	8 <sup>h</sup> ♂57'16	7 <sup>h</sup> ♂24	25 <sup>h</sup> ♂ 8	24 <sup>h</sup> II55	14 <sup>h</sup> ♂23	11 <sup>h</sup> ♂37	24 <sup>h</sup> II 8	24 <sup>h</sup> R59	21 <sup>h</sup> II45	14 <sup>h</sup> II24	6 <sup>h</sup> R 4	5 <sup>h</sup> ♂55	26 <sup>h</sup> ♂ 6	8 <sup>h</sup> II11
M 2	20 43 23	9 <sup>h</sup> 54'44	20 <sup>h</sup> 56	26 <sup>h</sup> 52	26 <sup>h</sup> 0	15 <sup>h</sup> 0	11 <sup>h</sup> 49	24 <sup>h</sup> 8	24 <sup>h</sup> II59	21 <sup>h</sup> 46	14 <sup>h</sup> 25	6 <sup>h</sup> ♂ 3	5 <sup>h</sup> 52	26 <sup>h</sup> 12	8 <sup>h</sup> 13
T 3	20 47 20	10 <sup>h</sup> 52'11	4 <sup>h</sup> ♂40	28 <sup>h</sup> 35	27 <sup>h</sup> 4	15 <sup>h</sup> 38	12 <sup>h</sup> 1	24 <sup>h</sup> 9	24 <sup>h</sup> D59	21 <sup>h</sup> 48	14 <sup>h</sup> 25	6 <sup>h</sup> 3	5 <sup>h</sup> 49	26 <sup>h</sup> 19	8 <sup>h</sup> 16
W 4	20 51 16	11 <sup>h</sup> 49'40	18 <sup>h</sup> 35	0 <sup>h</sup> ♂16	28 <sup>h</sup> 9	16 <sup>h</sup> 15	12 <sup>h</sup> 12	24 <sup>h</sup> 9	24 <sup>h</sup> 59	21 <sup>h</sup> 50	14 <sup>h</sup> 26	6 <sup>h</sup> 2	5 <sup>h</sup> 46	26 <sup>h</sup> 26	8 <sup>h</sup> 19
T 5	20 55 13	12 <sup>h</sup> 47'09	2 <sup>h</sup> II39	1 <sup>h</sup> 55	29 <sup>h</sup> 15	16 <sup>h</sup> 53	12 <sup>h</sup> 25	24 <sup>h</sup> 10	24 <sup>h</sup> 59	21 <sup>h</sup> 51	14 <sup>h</sup> 27	6 <sup>h</sup> 2	5 <sup>h</sup> 42	26 <sup>h</sup> 33	8 <sup>h</sup> 22
F 6	20 59 9	13 <sup>h</sup> 44'39	16 <sup>h</sup> 50	3 <sup>h</sup> 33	0 <sup>h</sup> ♂20	17 <sup>h</sup> 30	12 <sup>h</sup> 37	24 <sup>h</sup> 11	24 <sup>h</sup> 59	21 <sup>h</sup> 53	14 <sup>h</sup> 28	6 <sup>h</sup> D 2	5 <sup>h</sup> 39	26 <sup>h</sup> 39	8 <sup>h</sup> 25
S 7	21 3 6	14 <sup>h</sup> 42'10	1 <sup>h</sup> ♂ 6	5 <sup>h</sup> 9	1 <sup>h</sup> 26	18 <sup>h</sup> 8	12 <sup>h</sup> 49	24 <sup>h</sup> 12	24 <sup>h</sup> 59	21 <sup>h</sup> 54	14 <sup>h</sup> 29	6 <sup>h</sup> 2	5 <sup>h</sup> 36	26 <sup>h</sup> 46	8 <sup>h</sup> 29
S 8	21 7 3	15 <sup>h</sup> 39'42	15 <sup>h</sup> 24	6 <sup>h</sup> 44	2 <sup>h</sup> 32	18 <sup>h</sup> 46	13 <sup>h</sup> 1	24 <sup>h</sup> 13	25 <sup>h</sup> 0	21 <sup>h</sup> 56	14 <sup>h</sup> 29	6 <sup>h</sup> 3	5 <sup>h</sup> 33	26 <sup>h</sup> 53	8 <sup>h</sup> 32
M 9	21 10 59	16 <sup>h</sup> 37'15	29 <sup>h</sup> 41	8 <sup>h</sup> 17	3 <sup>h</sup> 37	19 <sup>h</sup> 23	13 <sup>h</sup> 13	24 <sup>h</sup> 14	25 <sup>h</sup> 0	21 <sup>h</sup> 57	14 <sup>h</sup> 30	6 <sup>h</sup> 4	5 <sup>h</sup> 30	26 <sup>h</sup> 59	8 <sup>h</sup> 35
T 10	21 14 56	17 <sup>h</sup> 34'48	13 <sup>h</sup> ♂54	9 <sup>h</sup> 48	4 <sup>h</sup> 44	20 <sup>h</sup> 1	13 <sup>h</sup> 25	24 <sup>h</sup> 15	25 <sup>h</sup> 0	21 <sup>h</sup> 59	14 <sup>h</sup> 31	6 <sup>h</sup> 5	5 <sup>h</sup> 27	27 <sup>h</sup> 6	8 <sup>h</sup> 39
W11	21 18 52	18 <sup>h</sup> 32'23	27 <sup>h</sup> 59	11 <sup>h</sup> 18	5 <sup>h</sup> 50	20 <sup>h</sup> 39	13 <sup>h</sup> 38	24 <sup>h</sup> 16	25 <sup>h</sup> 1	22 <sup>h</sup> 0	14 <sup>h</sup> 32	6 <sup>h</sup> 5	5 <sup>h</sup> 23	27 <sup>h</sup> 13	8 <sup>h</sup> 42
T 12	21 22 49	19 <sup>h</sup> 29'58	11 <sup>h</sup> ♂52	12 <sup>h</sup> 46	6 <sup>h</sup> 57	21 <sup>h</sup> 17	13 <sup>h</sup> 50	24 <sup>h</sup> 18	25 <sup>h</sup> 1	22 <sup>h</sup> 1	14 <sup>h</sup> 32	6 <sup>h</sup> R 5	5 <sup>h</sup> 20	27 <sup>h</sup> 20	8 <sup>h</sup> 46
F 13	21 26 45	20 <sup>h</sup> 27'35	25 <sup>h</sup> 31	14 <sup>h</sup> 12	8 <sup>h</sup> 3	21 <sup>h</sup> 55	14 <sup>h</sup> 2	24 <sup>h</sup> 19	25 <sup>h</sup> 2	22 <sup>h</sup> 3	14 <sup>h</sup> 33	6 <sup>h</sup> 4	5 <sup>h</sup> 17	27 <sup>h</sup> 26	8 <sup>h</sup> 50
S 14	21 30 42	21 <sup>h</sup> 25'13	8 <sup>h</sup> ♂52	15 <sup>h</sup> 37	9 <sup>h</sup> 10	22 <sup>h</sup> 33	14 <sup>h</sup> 15	24 <sup>h</sup> 21	25 <sup>h</sup> 2	22 <sup>h</sup> 4	14 <sup>h</sup> 34	6 <sup>h</sup> 3	5 <sup>h</sup> 14	27 <sup>h</sup> 33	8 <sup>h</sup> 54
S 15	21 34 38	22 <sup>h</sup> 22'52	21 <sup>h</sup> 56	17 <sup>h</sup> 0	10 <sup>h</sup> 17	23 <sup>h</sup> 11	14 <sup>h</sup> 27	24 <sup>h</sup> 22	25 <sup>h</sup> 3	22 <sup>h</sup> 5	14 <sup>h</sup> 34	6 <sup>h</sup> 1	5 <sup>h</sup> 11	27 <sup>h</sup> 40	8 <sup>h</sup> 58
M16	21 38 35	23 <sup>h</sup> 20'32	4 <sup>h</sup> ♂41	18 <sup>h</sup> 22	11 <sup>h</sup> 24	23 <sup>h</sup> 49	14 <sup>h</sup> 40	24 <sup>h</sup> 24	25 <sup>h</sup> 3	22 <sup>h</sup> 7	14 <sup>h</sup> 35	5 <sup>h</sup> 59	5 <sup>h</sup> 7	27 <sup>h</sup> 46	9 <sup>h</sup> 2
T 17	21 42 32	24 <sup>h</sup> 1													

SWISS EPHEMERIS for the year 1897

SEPTEMBER 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
W 1	22 41 40	8 <sup>h</sup> 47'07"	29 <sup>h</sup> 16'	5 <sup>h</sup> 17'	29 <sup>h</sup> 40'	4 <sup>h</sup> 4'	18 <sup>h</sup> 3'	25 <sup>h</sup> 4'	25 <sup>h</sup> 21'	22 <sup>h</sup> 23'	14 <sup>h</sup> 42'	5°R38	4 <sup>h</sup> 17'	29 <sup>h</sup> 34'	10 <sup>h</sup> 18'
T 2	22 45 36	9°45'15"	13 <sup>h</sup> 36'	5°57'	0 <sup>h</sup> 50'	4°42'	18°16'	25°8'	25°22'	22°24'	14°42'	5 <sup>h</sup> 34'	4°13'	29°40'	10°24'
F 3	22 49 33	10°43'25"	27°54'	6°32'	1°59'	5°21'	18°29'	25°11'	25°24'	22°25'	14°42'	5°32'	4°10'	29°47'	10°29'
S 4	22 53 29	11°41'36"	12 <sup>h</sup> 7'	7°3'	3°9'	6°0'	18°42'	25°15'	25°25'	22°26'	14°43'	5°D31	4°7'	29°54'	10°35'
S 5	22 57 26	12°39'49"	26°13'	7°30'	4°19'	6°39'	18°55'	25°18'	25°27'	22°26'	14°43'	5°32'	4°4'	0 <sup>h</sup> 11'	10°41'
M 6	23 1 23	13°38'03"	10 <sup>h</sup> 31'	7°52'	5°29'	7°18'	19°8'	25°22'	25°29'	22°27'	14°43'	5°33'	4°1'	0°7'	10°46'
T 7	23 5 19	14°36'19"	23°59'	8°8'	6°39'	7°57'	19°20'	25°25'	25°30'	22°28'	14°43'	5°34'	3°58'	0°14'	10°52'
W 8	23 9 16	15°34'36"	7 <sup>h</sup> 38'	8°20'	7°50'	8°36'	19°33'	25°29'	25°32'	22°28'	14°43'	5°R35	3°54'	0°21'	10°58'
T 9	23 13 12	16°32'55"	21°5'	8°R25	9°0'	9°16'	19°46'	25°33'	25°34'	22°29'	14°43'	5°34'	3°51'	0°27'	11°4'
F 10	23 17 9	17°31'15"	4 <sup>h</sup> 21'	8°25'	10°11'	9°55'	19°59'	25°37'	25°36'	22°29'	14°44'	5°31'	3°48'	0°34'	11°10'
S 11	23 21 5	18°29'37"	17°24'	8°18'	11°21'	10°34'	20°12'	25°41'	25°38'	22°30'	14°44'	5°26'	3°45'	0°41'	11°16'
S 12	23 25 2	19°28'01"	0 <sup>h</sup> 14'	8°4'	12°32'	11°13'	20°25'	25°45'	25°40'	22°30'	14°44'	5°19'	3°42'	0°48'	11°22'
M 13	23 28 58	20°26'26"	12°49'	7°44'	13°43'	11°53'	20°38'	25°49'	25°42'	22°31'	14°44'	5°11'	3°39'	0°54'	11°29'
T 14	23 32 55	21°24'54"	25°12'	7°17'	14°54'	12°32'	20°51'	25°54'	25°44'	22°31'	14°R44	5°3'	3°35'	1°1'	11°35'
W 15	23 36 52	22°23'24"	7 <sup>h</sup> 22'	6°43'	16°5'	13°11'	21°4'	25°58'	25°46'	22°31'	14°44'	4°55'	3°32'	1°8'	11°41'
T 16	23 40 48	23°21'56"	19°23'	6°2'	17°16'	13°51'	21°17'	26°2'	25°48'	22°32'	14°44'	4°48'	3°29'	1°14'	11°48'
F 17	23 44 45	24°20'30"	1 <sup>h</sup> 16'	5°16'	18°27'	14°30'	21°30'	26°7'	25°50'	22°32'	14°44'	4°43'	3°26'	1°21'	11°54'
S 18	23 48 41	25°19'07"	13°7'	4°23'	19°38'	15°10'	21°43'	26°11'	25°52'	22°32'	14°44'	4°40'	3°23'	1°28'	12°1'
S 19	23 52 38	26°17'45"	25°0'	3°26'	20°50'	15°50'	21°56'	26°16'	25°55'	22°33'	14°43'	4°D39	3°19'	1°34'	12°7'
M 20	23 56 34	27°16'26"	7 <sup>h</sup> 30'	2°24'	22°1'	16°29'	22°9'	26°21'	25°57'	22°33'	14°43'	4°40'	3°16'	1°41'	12°14'
T 21	0 0 31	28°15'09"	19°11'	1°20'	23°13'	17°9'	22°22'	26°25'	25°59'	22°33'	14°43'	4°41'	3°13'	1°48'	12°21'
W 22	0 4 27	29°13'54"	1 <sup>h</sup> 40'	0°15'	24°25'	17°49'	22°35'	26°30'	26°2'	22°33'	14°43'	4°R41	3°10'	1°55'	12°27'
T 23	0 8 24	0 <sup>h</sup> 12'42"	14°30'	29 <sup>h</sup> 9'	25°37'	18°29'	22°48'	26°35'	26°4'	22°33'	14°43'	4°41'	3°7'	2°1'	12°34'
F 24	0 12 21	1°11'31"	27°45'	28°6'	26°49'	19°8'	23°1'	26°40'	26°7'	22°33'	14°43'	4°39'	3°4'	2°8'	12°41'
S 25	0 16 17	2°10'23"	11 <sup>h</sup> 25'	27°6'	28°1'	19°48'	23°14'	26°45'	26°9'	22°R33	14°42'	4°34'	3°0'	2°15'	12°48'
S 26	0 20 14	3°9'17"	25°29'	26°12'	29°13'	20°28'	23°27'	26°50'	26°12'	22°33'	14°42'	4°27'	2°57'	2°21'	12°55'
M 27	0 24 10	4°8'13"	9 <sup>h</sup> 54'	25°24'	0 <sup>h</sup> 25'	21°8'	23°40'	26°55'	26°14'	22°33'	14°42'	4°18'	2°54'	2°28'	13°2'
T 28	0 28 7	5°7'10"	24°32'	24°44'	1°37'	21°49'	23°52'	27°0'	26°17'	22°33'	14°42'	4°8'	2°51'	2°35'	13°9'
W 29	0 32 3	6°6'10"	9 <sup>h</sup> 17'	24°12'	2°50'	22°29'	24°5'	27°6'	26°20'	22°33'	14°41'	3°59'	2°48'	2°42'	13°16'
T 30	0 36 0	7 <sup>h</sup> 5'12"	24 <sup>h</sup> 1'	23 <sup>h</sup> 51'	4 <sup>h</sup> 2'	23 <sup>h</sup> 9'	24 <sup>h</sup> 18'	27 <sup>h</sup> 11'	26 <sup>h</sup> 22'	22 <sup>h</sup> 33'	14 <sup>h</sup> 41'	3 <sup>h</sup> 51'	2 <sup>h</sup> 44'	2 <sup>h</sup> 48'	13 <sup>h</sup> 23'

Delta T = -5.14 sec.

OCTOBER 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
F 1	0 39 56	8 <sup>h</sup> 4'15"	8 <sup>h</sup> 36'	23°R40	5 <sup>h</sup> 14'	23 <sup>h</sup> 49'	24 <sup>h</sup> 31'	27 <sup>h</sup> 16'	26 <sup>h</sup> 25'	22°R33	14°R41	3°R46	2 <sup>h</sup> 41'	2 <sup>h</sup> 55'	13 <sup>h</sup> 31'
S 2	0 43 53	9°3'21"	22°58'	23°D39	6°27'	24°29'	24°44'	27°22'	26°28'	22°R32	14°R40	3 <sup>h</sup> 42'	2°38'	3°2'	13°38'
S 3	0 47 50	10°2'28"	7 <sup>h</sup> 3'	23 <sup>h</sup> 49'	7°40'	25°10'	24°56'	27°27'	26°31'	22°32'	14°40'	3°D41	2°35'	3°8'	13°45'
M 4	0 51 46	11°1'37"	20°53'	24°9'	8°52'	25°50'	25°9'	27°33'	26°34'	22°32'	14°39'	3°42'	2°32'	3°15'	13°52'
T 5	0 55 43	12°0'47"	4 <sup>h</sup> 26'	24°39'	10°5'	26°30'	25°22'	27°39'	26°36'	22°32'	14°39'	3°R42	2°29'	3°22'	14°0'
W 6	0 59 39	12°59'59"	17°45'	25°18'	11°18'	27°11'	25°35'	27°44'	26°39'	22°31'	14°39'	3°41'	2°25'	3°28'	14°7'
T 7	1 3 36	13°59'13"	0 <sup>h</sup> 51'	26°6'	12°31'	27°51'	25°47'	27°50'	26°42'	22°31'	14°38'	3°38'	2°22'	3°35'	14°15'
F 8	1 7 32	14°58'29"	13°45'	27°2'	13°44'	28°32'	26°0'	27°56'	26°45'	22°30'	14°38'	3°32'	2°19'	3°42'	14°22'
S 9	1 11 29	15°57'47"	26°28'	28°5'	14°57'	29°13'	26°12'	28°2'	26°48'	22°30'	14°37'	3°24'	2°16'	3°49'	14°30'
S 10	1 15 25	16°57'06"	9 <sup>h</sup> 1'	29°14'	16°10'	29°53'	26°25'	28°8'	26°51'	22°30'	14°37'	3°13'	2°13'	3°55'	14°37'
M 11	1 19 22	17°56'28"	21°23'	0 <sup>h</sup> 29'	17°23'	0 <sup>h</sup> 34'	26°38'	28°14'	26°54'	22°29'	14°36'	3°0'	2°10'	4°2'	14°45'
T 12	1 23 19	18°55'52"	3 <sup>h</sup> 36'	1°49'	18°37'	1°15'	26°50'	28°20'	26°57'	22°29'	14°35'	2°46'	2°6'	4°9'	14°53'
W 13	1 27 15	19°55'17"	15°40'	3°13'	19°50'	1°56'	27°3'	28°26'	27°1'	22°28'	14°35'	2°33'	2°3'	4°15'	15°0'
T 14	1 31 12	20°54'45"	27°37'	4°41'	21°4'	2°36'	27°15'	28°32'	27°4'	22°27'	14°34'	2°22'	2°0'	4°22'	15°8'
F 15	1 35 8	21°54'16"	9 <sup>h</sup> 28'	6°12'	22°17'	3°17'	27°27'	28°38'	27°7'	22°27'	14°34'	2°12'	1°57'	4°29'	15°16'
S 16	1 39 5	22°53'48"	21°17'	7°45'	23°31'	3°58'	27°40'	28°44'	27°10'	22°26'	14°33'	2°6'	1°54'	4°35'	15°23'
S 17	1 43 1	23°53'23"	3 <sup>h</sup> 38'	9°21'	24°44'	4°39'	27°52'	28°50'	27°13'	22°25'	14°32'	2°2'	1°50'	4°42'	15°31'
M 18	1 46 58	24°53'00"	15°5'	10°58'	25°58'	5°20'	28°4'	28°57'	27°17'	22°25'	14°32'	2°1'	1°47'	4°49'	15°39'
T 19	1 50 54	25°52'39"	27°13'	12°36'	27°12'	6°2'	28°16'	29°3'	27°20'	22°24'	14°31'	2°0'	1°44'	4°56'	15°47'
W 20	1 54 51	26°52'21"	9 <sup>h</sup> 38'	14°15'	28°25'	6°43'	28°29'	29°9'	27°23'	22°23'	14°30'	2°0'	1°41'	5°2'	15°55'
T 21	1 58 48	27°52'04"	22°26'	15°55'	29°39'	7°24'	28°41'	29°16'	27°27'	22°22'	14°30'	1°59'	1°38'	5°9'	16°3'
F 22	2 2 44	28°51'50"	5 <sup>h</sup> 39'	17°36'	0 <sup>h</sup> 53'	8°5'	28°53'	29°22'	27°30'	22°21'	14°29'	1°56'	1°35'	5°16'	16°11'
S 23	2 6 41	29°51'38"	19°22'	19°17'	2°7'	8°47'	29°5'	29°29'	27°33'	22°21'	14°28'	1°50'	1°31'	5°22'	16°18'
S 24	2 10 37	0 <sup>h</sup> 51'29"	3 <sup>h</sup> 34'	20°58'	3°21'	9°28'	29°17'	29°35'	27°37'	22°20'	14°27'	1°42'	1°28'	5°29'	16°26'
M 25	2 14 34	1°51'21"	18°12'	22°39'	4°35'	10°9'	29°29'	29°42'	27°40'	22°19'	14°26'	1°31'	1°25'	5°36'	16°34'
T 26	2 18 30	2°51'15"	3 <sup>h</sup> 18'	24°20'	5°49'	10°51'	29°41'	29°48'	27°44'	22°18'	14°26'	1°19'	1°22'	5°42'	16°42'
W 27	2 22 27	3°51'12"	18°18'	26°1'	7°4'	11°32'	29°53'	29°55'	27°47'	22°17'	14°25'	1°8'	1°19'	5°49'	16°50'
T 28	2 26 23	4°51'10"	3 <sup>h</sup> 25'	27°41'	8°18'	12°14'	0 <sup>h</sup> 4'	0 <sup>h</sup> 2'	27°50'	22°16'	14°24'	0°58'	1°16'	5°56'	16°58'
F 29	2 30 20	5°51'10"	18°22'	29°22'	9°32'	12°56'	0°16'	0°8'	27°54'	22°15'	14°23'	0°50'	1°12'	6°3'	17°6'
S 30	2 34 17	6°51'12"	3 <sup>h</sup> 3'	1 <sup>h</sup> 11'	10°46'	13°37'	0°28'	0°15'	27°57'	22°14'	14°22'	0°46'	1°9'	6°9'	17°15'
S 31	2 38 13	7 <sup>h</sup> 51'16"	17 <sup>h</sup> 31'	2 <sup>h</sup> 42'	12 <sup>h</sup> 1'	14 <sup>h</sup> 19'	0 <sup>h</sup> 39'	0 <sup>h</sup> 22'	28 <sup>h</sup> 1'	22 <sup>h</sup> 13'	14 <sup>h</sup> 21'	0 <sup>h</sup> 44'	1 <sup>h</sup> 6'	6 <sup>h</sup> 16'	17 <sup>h</sup> 23'

Delta T = -5.04 sec.

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SWISS EPHEMERIS for the year 1897

NOVEMBER 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	2 42 10	8♍51'21	1♌12	4♍21	13♌15	15♍ 1	0♌51	0♌28	28♍ 5	22°R11	14°R20	0°R43	1♌ 3	6♍23	17♍31
T 2	2 46 6	9°51'27	14°43	6° 0	14°29	15°43	1° 2	0°35	28° 8	22♍10	14♍20	0♌43	1° 0	6°29	17°39
W 3	2 50 3	10°51'35	27°53	7°38	15°44	16°25	1°14	0°42	28°12	22° 9	14°19	0°42	0°56	6°36	17°47
T 4	2 53 59	11°51'44	10♋46	9°16	16°58	17° 7	1°25	0°49	28°15	22° 8	14°18	0°39	0°53	6°43	17°55
F 5	2 57 56	12°51'55	23°25	10°54	18°13	17° 49	1°36	0°56	28°19	22° 7	14°17	0°34	0°50	6°49	18° 3
S 6	3 1 52	13°52'08	5♍53	12°32	19°27	18°31	1°47	1° 3	28°23	22° 6	14°16	0°25	0°47	6°56	18°11
S 7	3 5 49	14°52'22	18°10	14° 9	20°42	19°13	1°58	1°10	28°26	22° 4	14°15	0°14	0°44	7° 3	18°19
M 8	3 9 45	15°52'38	0♌20	15°45	21°57	19°55	2° 9	1°17	28°30	22° 3	14°14	0° 1	0°41	7°10	18°27
T 9	3 13 42	16°52'55	12°23	17°21	23°11	20°37	2°20	1°24	28°33	22° 2	14°13	29♌47	0°37	7°16	18°35
W10	3 17 39	17°53'14	24°20	18°57	24°26	21°19	2°31	1°31	28°37	22° 0	14°12	29°33	0°34	7°23	18°44
T11	3 21 35	18°53'35	6♍13	20°33	25°41	22° 2	2°42	1°38	28°41	21°59	14°11	29°21	0°31	7°30	18°52
F12	3 25 32	19°53'58	18° 3	22° 8	26°56	22°44	2°53	1°45	28°44	21°58	14°10	29°12	0°28	7°36	19° 0
S13	3 29 28	20°54'22	29°52	23°43	28°10	23°27	3° 3	1°52	28°48	21°56	14° 9	29° 5	0°25	7°43	19° 8
S14	3 33 25	21°54'49	11♌43	25°18	29°25	24° 9	3°14	1°59	28°52	21°55	14° 8	29° 1	0°21	7°50	19°16
M15	3 37 21	22°55'17	23°40	26°52	0♍40	24°52	3°24	2° 6	28°56	21°53	14° 7	28°D59	0°18	7°56	19°24
T16	3 41 18	23°55'47	5♌47	28°26	1°55	25°34	3°35	2°13	28°59	21°52	14° 6	28°59	0°15	8° 3	19°32
W17	3 45 15	24°56'18	18° 9	0♌ 0	3°10	26°17	3°45	2°20	29° 3	21°50	14° 4	29° 0	0°12	8°10	19°40
T18	3 49 11	25°56'51	0♍51	1°34	4°25	26°59	3°55	2°27	29° 7	21°49	14° 3	29°R 0	0° 9	8°16	19°48
F19	3 53 8	26°57'27	13°58	3° 8	5°40	27°42	4° 5	2°34	29°10	21°48	14° 2	28°58	0° 6	8°23	19°57
S20	3 57 4	27°58'03	27°34	4°41	6°55	28°25	4°15	2°41	29°14	21°46	14° 1	28°55	0° 2	8°30	20° 5
S21	4 1 1	28°58'42	11♌39	6°14	8°10	29° 8	4°25	2°48	29°18	21°44	14° 0	28°49	29♌59	8°37	20°13
M22	4 4 57	29°59'22	26°14	7°47	9°25	29° 51	4°35	2°55	29°21	21°43	13°59	28°41	29°56	8°43	20°21
T23	4 8 54	1♌ 0'04	11♍13	9°20	10°40	0♌34	4°45	3° 2	29°25	21°41	13°58	28°32	29°53	8°50	20°29
W24	4 12 50	2° 0'48	26°27	10°53	11°55	1°17	4°54	3°10	29°29	21°40	13°57	28°23	29°50	8°57	20°37
T25	4 16 47	3° 1'33	11♌46	12°25	13°10	2° 0	5° 4	3°17	29°33	21°38	13°56	28°15	29°47	9° 3	20°45
F26	4 20 44	4° 2'19	26°59	13°58	14°25	2°43	5°13	3°24	29°36	21°37	13°54	28° 9	29°43	9°10	20°53
S27	4 24 40	5° 3'06	11♌56	15°30	15°41	3°26	5°22	3°31	29°40	21°35	13°53	28° 5	29°40	9°17	21° 1
S28	4 28 37	6° 3'54	26°29	17° 2	16°56	4° 9	5°31	3°38	29°44	21°33	13°52	28°D 4	29°37	9°23	21° 9
M29	4 32 33	7° 4'44	10♌36	18°34	18°11	4°52	5°41	3°45	29°47	21°32	13°51	28° 5	29°34	9°30	21°16
T30	4 36 30	8♌ 5'34	24♌15	20♌ 6	19♍26	5♌36	5♌49	3♌52	29♍51	21♍30	13♍50	28♌ 6	29♌31	9♍37	21♍24

Delta T = -4.93 sec.

DECEMBER 1897

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	4 40 26	9♌ 6'25	7♋29	21♌37	20♍41	6♌19	5♌58	3♌59	29♍55	21°R28	13°R49	28°R 7	29♌27	9♍43	21♍32
T 2	4 44 23	10° 7'16	20°21	23° 9	21°57	7° 2	6° 7	4° 7	29°58	21♍27	13♍48	28♌ 6	29°24	9°50	21°40
F 3	4 48 19	11° 8'09	2♍55	24°40	23°12	7°46	6°16	4°14	0♌ 2	21°25	13°46	28° 3	29°21	9°57	21°48
S 4	4 52 16	12° 9'02	15°14	26°11	24°27	8°29	6°24	4°21	0° 6	21°23	13°45	27°59	29°18	10° 4	21°56
S 5	4 56 13	13° 9'56	27°23	27°41	25°42	9°13	6°32	4°28	0° 9	21°22	13°44	27°52	29°15	10°10	22° 3
M 6	5 0 9	14°10'51	9♌23	29°12	26°58	9°56	6°41	4°35	0°13	21°20	13°43	27°44	29°12	10°17	22°11
T 7	5 4 6	15°11'47	21°18	0♌41	28°13	10°40	6°49	4°42	0°17	21°18	13°42	27°35	29° 8	10°24	22°19
W 8	5 8 2	16°12'44	3♍10	2°11	29°28	11°24	6°57	4°49	0°20	21°17	13°41	27°27	29° 5	10°30	22°27
T 9	5 11 59	17°13'41	15° 1	3°39	0♌43	12° 7	7° 5	4°56	0°24	21°15	13°40	27°20	29° 2	10°37	22°34
F10	5 15 55	18°14'40	26°52	5° 7	1°59	12°51	7°12	5° 3	0°28	21°13	13°38	27°14	28°59	10°44	22°42
S11	5 19 52	19°15'39	8♌45	6°34	3°14	13°35	7°20	5°10	0°31	21°12	13°37	27°10	28°56	10°50	22°49
S12	5 23 48	20°16'39	20°41	8° 1	4°29	14°19	7°27	5°17	0°35	21°10	13°36	27° 8	28°53	10°57	22°57
M13	5 27 45	21°17'40	2♍44	9°25	5°45	15° 3	7°35	5°24	0°38	21° 8	13°35	27°D 8	28°49	11° 4	23° 4
T14	5 31 42	22°18'42	14°57	10°49	7° 0	15°47	7°42	5°31	0°42	21° 7	13°34	27° 9	28°46	11°10	23°12
W15	5 35 38	23°19'45	27°23	12°11	8°16	16°31	7°49	5°38	0°45	21° 5	13°33	27°11	28°43	11°17	23°19
T16	5 39 35	24°20'49	10♍ 5	13°31	9°31	17°15	7°56	5°45	0°49	21° 3	13°32	27°13	28°40	11°24	23°26
F17	5 43 31	25°21'53	23° 8	14°48	10°46	17°59	8° 3	5°52	0°52	21° 1	13°30	27°R14	28°37	11°31	23°34
S18	5 47 28	26°22'59	6♌35	16° 3	12° 2	18°43	8° 9	5°58	0°56	21° 0	13°29	27°13	28°33	11°37	23°41
S19	5 51 24	27°24'05	20°28	17°14	13°17	19°27	8°16	6° 5	0°59	20°58	13°28	27°11	28°30	11°44	23°48
M20	5 55 21	28°25'12	4♍47	18°22	14°32	20°12	8°22	6°12	1° 2	20°56	13°27	27° 8	28°27	11°51	23°55
T21	5 59 17	29°26'20	19°30	19°26	15°48	20°56	8°28	6°19	1° 6	20°55	13°26	27° 4	28°24	11°57	24° 3
W22	6 3 14	0♌27'29	4♌32	20°25	17° 3	21°40	8°34	6°25	1° 9	20°53	13°25	27° 0	28°21	12° 4	24°10
T23	6 7 11	1°28'38	19°43	21°17	18°19	22°25	8°40	6°32	1°13	20°51	13°24	26°57	28°18	12°11	24°17
F24	6 11 7	2°29'48	4♌54	22° 4	19°34	23° 9	8°46	6°39	1°16	20°50	13°23	26°54	28°14	12°17	24°24
S25	6 15 4	3°30'57	19°55	22°43	20°50	23°54	8°51	6°46	1°19	20°48	13°22	26°D53	28°11	12°24	24°31
S26	6 19 0	4°32'08	4♌38	23°14	22° 5	24°38	8°57	6°52	1°23	20°46	13°21	26°53	28° 8	12°31	24°38
M27	6 22 57	5°33'18	18°57	23°35	23°20	25°23	9° 2	6°59	1°26	20°45	13°19	26°54	28° 5	12°37	24°44
T28	6 26 53	6°34'28	2♋48	23°47	24°36	26° 8	9° 7	7° 5	1°29	20°43	13°18	26°55	28° 2	12°44	24°51
W29	6 30 50	7°35'38	16°13	23°R48	25°51	26°52	9°12	7°12	1°32	20°41	13°17	26°57	27°59	12°51	24°58
T30	6 34 47	8°36'47	29°12	23°37	27° 7	27°37	9°17	7°18	1°35	20°40	13°16	26°58	27°55	12°57	25° 4
F31	6 38 43	9♌37'57	11♍49	23♌14	28♌22	28♌22	9♌21	7♌25	1♌38	20♍38	13♍15	26°R58	27♌52	13♍ 4	25♍11

Delta T = -4.84 sec.

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