

SWISS EPHEMERIS for the year 1891

JANUARY 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	6 41 26	10 ³ 19'37	13 ¹⁷ 44	29 ³ 17	5 ²⁷ 26	11 ¹¹ 12	14 ²⁹ 29	17 ¹⁰ R10	0 ¹¹ 51	4 ⁰ R30	6 ⁰ R19	14 ⁰ R22	13 ¹¹ 13	28 ⁰ 8	2 ⁰ R48								
F 2	6 45 22	11 ⁰ 20'46	25 ⁰ 38	29 ⁰ 49	5 ⁰ 44	11 ⁰ 56	14 ⁰ 42	17 ¹⁰ 10	0 ⁰ 53	4 ¹¹ 29	6 ¹¹ 18	14 ¹¹ 20	13 ¹⁰ 10	28 ⁰ 15	2 ⁰ L44								
S 3	6 49 19	12 ⁰ 21'56	7 ² 38	0 ⁰ 13	6 ⁰ 4	12 ⁰ 41	14 ⁰ 56	17 ⁰ 9	0 ⁰ 55	4 ⁰ 28	6 ⁰ 17	14 ⁰ D18	13 ⁰ 6	28 ⁰ 22	2 ⁰ 40								
S 4	6 53 15	13 ⁰ 23'05	19 ⁰ 51	0 ⁰ 26	6 ⁰ 26	13 ⁰ 26	15 ⁰ 9	17 ⁰ 8	0 ⁰ 57	4 ⁰ 26	6 ⁰ 16	14 ⁰ 19	13 ⁰ 3	28 ⁰ 28	2 ⁰ 36								
M 5	6 57 12	14 ⁰ 24'15	2 ¹¹ 19	0 ⁰ R28	6 ⁰ 49	14 ⁰ 11	15 ⁰ 22	17 ⁰ 7	0 ⁰ 59	4 ⁰ 25	6 ⁰ 15	14 ⁰ 20	13 ⁰ 0	28 ⁰ 35	2 ⁰ 32								
T 6	7 1 8	15 ⁰ 25'26	15 ⁰ 8	0 ⁰ 19	7 ⁰ 15	14 ⁰ 56	15 ⁰ 36	17 ⁰ 6	1 ⁰ 0	4 ⁰ 24	6 ⁰ 14	14 ⁰ 21	12 ⁰ 57	28 ⁰ 42	2 ⁰ 28								
W 7	7 5 5	16 ⁰ 26'36	28 ⁰ 22	29 ⁰ 58	7 ⁰ 42	15 ⁰ 41	15 ⁰ 49	17 ⁰ 5	1 ⁰ 2	4 ⁰ 23	6 ⁰ 13	14 ⁰ 23	12 ⁰ 54	28 ⁰ 49	2 ⁰ 24								
T 8	7 9 2	17 ⁰ 27'47	12 ⁰ 7 2	29 ⁰ 26	8 ⁰ 11	16 ⁰ 25	16 ⁰ 2	17 ⁰ 4	1 ⁰ 3	4 ⁰ 22	6 ⁰ 13	14 ⁰ R24	12 ⁰ 50	28 ⁰ 55	2 ⁰ 20								
F 9	7 12 58	18 ⁰ 28'57	26 ⁰ 9	28 ⁰ 42	8 ⁰ 41	17 ⁰ 10	16 ⁰ 16	17 ⁰ 3	1 ⁰ 5	4 ⁰ 21	6 ⁰ 12	14 ⁰ 23	12 ⁰ 47	29 ⁰ 2	2 ⁰ 15								
S 10	7 16 55	19 ⁰ 30'08	10 ⁰ 340	27 ⁰ 47	9 ⁰ 13	17 ⁰ 55	16 ⁰ 30	17 ⁰ 1	1 ⁰ 6	4 ⁰ 20	6 ⁰ 11	14 ⁰ 21	12 ⁰ 44	29 ⁰ 9	2 ⁰ 11								
S 11	7 20 51	20 ⁰ 31'18	25 ⁰ 30	26 ⁰ 43	9 ⁰ 46	18 ⁰ 40	16 ⁰ 43	17 ⁰ 0	1 ⁰ 8	4 ⁰ 18	6 ⁰ 10	14 ⁰ 17	12 ⁰ 41	29 ⁰ 15	2 ⁰ 7								
M12	7 24 48	21 ⁰ 32'27	10 ⁰ 330	25 ⁰ 32	10 ⁰ 21	19 ⁰ 24	16 ⁰ 57	16 ⁰ 58	1 ⁰ 9	4 ⁰ 17	6 ⁰ 9	14 ⁰ 12	12 ⁰ 38	29 ⁰ 22	2 ⁰ 2								
T 13	7 28 44	22 ⁰ 33'37	25 ⁰ 32	24 ⁰ 16	10 ⁰ 57	20 ⁰ 9	17 ⁰ 11	16 ⁰ 57	1 ⁰ 10	4 ⁰ 16	6 ⁰ 9	14 ⁰ 6	12 ⁰ 35	29 ⁰ 29	1 ⁰ 58								
W14	7 32 41	23 ⁰ 34'45	10 ⁰ 326	22 ⁰ 58	11 ⁰ 35	20 ⁰ 54	17 ⁰ 24	16 ⁰ 55	1 ⁰ 11	4 ⁰ 15	6 ⁰ 8	14 ⁰ 0	12 ⁰ 31	29 ⁰ 36	1 ⁰ 54								
T 15	7 36 37	24 ⁰ 35'53	25 ⁰ 5	21 ⁰ 39	12 ⁰ 14	21 ⁰ 39	17 ⁰ 38	16 ⁰ 53	1 ⁰ 13	4 ⁰ 14	6 ⁰ 7	13 ⁰ 55	12 ⁰ 28	29 ⁰ 42	1 ⁰ 49								
F 16	7 40 34	25 ⁰ 37'00	9 ⁰ 23	20 ⁰ 23	12 ⁰ 54	22 ⁰ 23	17 ⁰ 52	16 ⁰ 51	1 ⁰ 14	4 ⁰ 13	6 ⁰ 7	13 ⁰ 52	12 ⁰ 25	29 ⁰ 49	1 ⁰ 45								
S 17	7 44 31	26 ⁰ 38'06	23 ⁰ 19	19 ⁰ 10	13 ⁰ 35	23 ⁰ 8	18 ⁰ 6	16 ⁰ 49	1 ⁰ 15	4 ⁰ 13	6 ⁰ 6	13 ⁰ D51	12 ⁰ 22	29 ⁰ 56	1 ⁰ 40								
S 18	7 48 27	27 ⁰ 39'11	6 ⁰ 52	18 ⁰ 5	14 ⁰ 17	23 ⁰ 53	18 ⁰ 20	16 ⁰ 46	1 ⁰ 16	4 ⁰ 12	6 ⁰ 5	13 ⁰ 51	12 ⁰ 19	0 ⁰ 11 2	1 ⁰ 36								
M19	7 52 24	28 ⁰ 40'15	20 ⁰ 4	17 ⁰ 6	15 ⁰ 0	24 ⁰ 37	18 ⁰ 34	16 ⁰ 44	1 ⁰ 17	4 ⁰ 11	6 ⁰ 5	13 ⁰ 52	12 ⁰ 16	0 ⁰ 9	1 ⁰ 31								
T 20	7 56 20	29 ⁰ 41'19	2 ¹¹ 59	16 ⁰ 16	15 ⁰ 45	25 ⁰ 22	18 ⁰ 48	16 ⁰ 42	1 ⁰ 18	4 ⁰ 10	6 ⁰ 4	13 ⁰ 54	12 ⁰ 12	0 ⁰ 16	1 ⁰ 27								
W21	8 0 17	0 ⁰ 42'22	15 ⁰ 38	15 ⁰ 35	16 ⁰ 30	26 ⁰ 6	19 ⁰ 2	16 ⁰ 39	1 ⁰ 19	4 ⁰ 9	6 ⁰ 3	13 ⁰ R54	12 ⁰ 9	0 ⁰ 23	1 ⁰ 22								
T 22	8 4 13	1 ⁰ 43'23	28 ⁰ 5	15 ⁰ 4	17 ⁰ 17	26 ⁰ 51	19 ⁰ 16	16 ⁰ 37	1 ⁰ 19	4 ⁰ 8	6 ⁰ 3	13 ⁰ 53	12 ⁰ 6	0 ⁰ 29	1 ⁰ 18								
F 23	8 8 10	2 ⁰ 44'24	10 ⁰ 22	14 ⁰ 41	18 ⁰ 4	27 ⁰ 35	19 ⁰ 30	16 ⁰ 34	1 ⁰ 20	4 ⁰ 8	6 ⁰ 2	13 ⁰ 49	12 ⁰ 3	0 ⁰ 36	1 ⁰ 13								
S 24	8 12 7	3 ⁰ 45'24	22 ⁰ 32	14 ⁰ 28	18 ⁰ 52	28 ⁰ 20	19 ⁰ 44	16 ⁰ 31	1 ⁰ 21	4 ⁰ 7	6 ⁰ 2	13 ⁰ 44	12 ⁰ 0	0 ⁰ 43	1 ⁰ 9								
S 25	8 16 3	4 ⁰ 46'23	4 ⁰ 35	14 ⁰ D23	19 ⁰ 41	29 ⁰ 4	19 ⁰ 58	16 ⁰ 28	1 ⁰ 21	4 ⁰ 6	6 ⁰ 1	13 ⁰ 35	11 ⁰ 56	0 ⁰ 50	1 ⁰ 4								
M26	8 20 0	5 ⁰ 47'21	16 ⁰ 33	14 ⁰ 26	20 ⁰ 31	29 ⁰ 49	20 ⁰ 12	16 ⁰ 25	1 ⁰ 22	4 ⁰ 6	6 ⁰ 1	13 ⁰ 25	11 ⁰ 53	0 ⁰ 56	1 ⁰ 0								
T 27	8 23 56	6 ⁰ 48'18	28 ⁰ 27	14 ⁰ 36	21 ⁰ 21	0 ⁰ 33	20 ⁰ 26	16 ⁰ 22	1 ⁰ 22	4 ⁰ 5	6 ⁰ 0	13 ⁰ 14	11 ⁰ 50	1 ⁰ 3	0 ⁰ 55								
W28	8 27 53	7 ⁰ 49'15	10 ⁰ 19	14 ⁰ 53	22 ⁰ 13	1 ⁰ 18	20 ⁰ 41	16 ⁰ 19	1 ⁰ 23	4 ⁰ 5	6 ⁰ 0	13 ⁰ 4	11 ⁰ 47	1 ⁰ 10	0 ⁰ 51								
T 29	8 31 49	8 ⁰ 50'10	22 ⁰ 11	15 ⁰ 17	23 ⁰ 5	2 ⁰ 2	20 ⁰ 55	16 ⁰ 16	1 ⁰ 23	4 ⁰ 4	5 ⁰ 59	12 ⁰ 54	11 ⁰ 44	1 ⁰ 16	0 ⁰ 47								
F 30	8 35 46	9 ⁰ 51'05	4 ⁰ 6	15 ⁰ 46	23 ⁰ 58	2 ⁰ 46	21 ⁰ 9	16 ⁰ 13	1 ⁰ 24	4 ⁰ 4	5 ⁰ 59	12 ⁰ 46	11 ⁰ 41	1 ⁰ 23	0 ⁰ 42								
S 31	8 39 42	10 ⁰ 51'59	16 ⁰ 5	16 ⁰ 21	24 ⁰ 51	3 ⁰ 30	21 ⁰ 23	16 ⁰ 10	1 ⁰ 24	4 ⁰ 3	5 ⁰ 58	12 ⁰ 40	11 ⁰ 37	1 ⁰ 30	0 ⁰ L38								

Delta T = -6.11 sec.

FEBRUARY 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	8 43 39	11 ⁰ 52'52	28 ⁰ 15	17 ⁰ 1	25 ⁰ 45	4 ⁰ 15	21 ⁰ 38	16 ⁰ R 6	1 ⁰ 24	4 ⁰ R 3	5 ⁰ R58	12 ⁰ R36	11 ¹¹ 34	1 ¹¹ 37	0 ⁰ R33								
M 2	8 47 35	12 ⁰ 53'44	10 ¹¹ 38	17 ⁰ 45	26 ⁰ 40	4 ⁰ 59	21 ⁰ 52	16 ¹¹ 2	1 ⁰ 24	4 ¹¹ 2	5 ¹¹ 58	12 ⁰ D35	11 ⁰ 31	1 ⁰ 43	0 ⁰ L29								
T 3	8 51 32	13 ⁰ 54'36	23 ⁰ 20	18 ⁰ 33	27 ⁰ 35	5 ⁰ 43	22 ⁰ 6	15 ⁰ 58	1 ⁰ 24	4 ⁰ 2	5 ⁰ 57	12 ¹¹ 36	11 ⁰ 28	1 ⁰ 50	0 ⁰ 25								
W 4	8 55 29	14 ⁰ 55'26	6 ¹¹ 26	19 ⁰ 25	28 ⁰ 31	6 ⁰ 27	22 ⁰ 21	15 ⁰ 55	1 ⁰ 25	4 ⁰ 2	5 ⁰ 57	12 ⁰ R36	11 ⁰ 25	1 ⁰ 57	0 ⁰ 20								
T 5	8 59 25	15 ⁰ 56'16	19 ⁰ 59	20 ⁰ 20	29 ⁰ 28	7 ⁰ 11	22 ⁰ 35	15 ⁰ 51	1 ⁰ R25	4 ⁰ 1	5 ⁰ 57	12 ⁰ 36	11 ⁰ 22	2 ⁰ 3	0 ⁰ 16								
F 6	9 3 22	16 ⁰ 57'05	4 ⁰ 1	21 ⁰ 18	0 ⁰ 25	7 ⁰ 56	22 ⁰ 49	15 ⁰ 47	1 ⁰ 24	4 ⁰ 1	5 ⁰ 56	12 ⁰ 34	11 ⁰ 18	2 ⁰ 10	0 ⁰ 12								
S 7	9 7 18	17 ⁰ 57'53	18 ⁰ 32	22 ⁰ 19	1 ⁰ 22	8 ⁰ 40	23 ⁰ 4	15 ⁰ 43	1 ⁰ 24	4 ⁰ 1	5 ⁰ 56	12 ⁰ 30	11 ⁰ 15	2 ⁰ 17	0 ⁰ 8								
S 8	9 11 15	18 ⁰ 58'40	3 ⁰ 28	23 ⁰ 22	2 ⁰ 20	9 ⁰ 24	23 ⁰ 18	15 ⁰ 39	1 ⁰ 24	4 ⁰ 1	5 ⁰ 56	12 ⁰ 23	11 ⁰ 12	2 ⁰ 24	0 ⁰ 3								
M 9	9 15 11	19 ⁰ 59'25	18 ⁰ 41	24 ⁰ 28	3 ⁰ 18	10 ⁰ 8	23 ⁰ 33	15 ⁰ 35	1 ⁰ 24	4 ⁰ 0	5 ⁰ 56	12 ⁰ 13	11 ⁰ 9	2 ⁰ 30	29 ⁰ 59								
T 10	9 19 8	21 ⁰ 0'09	4 ⁰ 0	25 ⁰ 36	4 ⁰ 17	10 ⁰ 52	23 ⁰ 47	15 ⁰ 31	1 ⁰ 24	4 ⁰ 0	5 ⁰ 55	12 ⁰ 3	11 ⁰ 6	2 ⁰ 37	29 ⁰ 55								
W11	9 23 5	22 ⁰ 0'52	19 ⁰ 15	26 ⁰ 46	5 ⁰ 17	11 ⁰ 36	24 ⁰ 1	15 ⁰ 27	1 ⁰ 23	4 ⁰ 0	5 ⁰ 55	11 ⁰ 52	11 ⁰ 2	2 ⁰ 44	29 ⁰ 51								
T 12	9 27 1	23 ⁰ 1'33	4 ⁰ 14	27 ⁰ 58	6 ⁰ 16	12 ⁰ 20	24 ⁰ 16	15 ⁰ 23	1 ⁰ 23	4 ⁰ 0	5 ⁰ 55	11 ⁰ 43	10 ⁰ 59	2 ⁰ 51	29 ⁰ 47								
F 13	9 30 58	24 ⁰ 2'12	18 ⁰ 50	29 ⁰ 12	7 ⁰ 17	13 ⁰ 3	24 ⁰ 30	15 ⁰ 19	1 ⁰ 23	4 ⁰ D 0	5 ⁰ 55	11 ⁰ 36	10 ⁰ 56	2 ⁰ 57	29 ⁰ 43								
S 14	9 34 54	25 ⁰ 2'50	2 ⁰ 58	0 ⁰ 27	8 ⁰ 17	13 ⁰ 47	24 ⁰ 45	15 ⁰ 14	1 ⁰ 22	4 ⁰ 0	5 ⁰ 55	11 ⁰ 32	10 ⁰ 53	3 ⁰ 4	29 ⁰ 39								
S 15	9 38 51	26 ⁰ 3'26	16 ⁰ 37	1 ⁰ 44	9 ⁰ 18	14 ⁰ 31	24 ⁰ 59	15 ⁰ 10	1 ⁰ 22	4 ⁰ 0	5 ⁰ 55	11 ⁰ 30	10 ⁰ 50	3 ⁰ 11	29 ⁰ 36								
M16	9 42 47	27 ⁰ 4'00	29 ⁰ 50	3 ⁰ 3	10 ⁰ 19	15 ⁰ 15	25 ⁰ 14	15 ⁰ 5	1 ⁰ 21	4 ⁰ 0	5 ⁰ 55	11 ⁰ D30	10 ⁰ 47	3 ⁰ 17	29 ⁰ 32								
T 17	9 46 44	28 ⁰ 4'33	12 ¹¹ 40	4<																			

SWISS EPHEMERIS for the year 1891

MARCH 1891

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	10 34 2	10♋ 8°43	7♍18	21♋55	24♌3	24♍41	28♎20	14°R 5	1°R 9	4♌4	5♍56	9°R39	10♎5	4♎45	28°R49	
M 2	10 37 59	11° 8'53	19°42	23°30	25° 8	25°24	28°35	14♎0	1♍7	4° 5	5°56	9♍36	10° 2	4°52	28°R46	
T 3	10 41 56	12° 9'01	2♌22	25° 5	26°14	26° 7	28°49	13°56	1° 6	4° 6	5°56	9°35	9°59	4°58	28°43	
W 4	10 45 52	13° 9'08	15°22	26°42	27°19	26°50	29° 3	13°51	1° 4	4° 6	5°56	9°35	9°56	5° 5	28°41	
T 5	10 49 49	14° 9'14	28°46	28°21	28°25	27°33	29°17	13°46	1° 3	4° 7	5°57	9°35	9°53	5°12	28°38	
F 6	10 53 45	15° 9'18	12♌37	0♋ 0	29°31	28°16	29°31	13°41	1° 2	4° 8	5°57	9°33	9°49	5°18	28°36	
S 7	10 57 42	16° 9'20	26°56	1°40	0♋38	28°59	29°45	13°36	1° 0	4° 8	5°57	9°28	9°46	5°25	28°33	
S 8	11 1 38	17° 9'21	11♋41	3°21	1°44	29°42	0♋ 0	13°32	0°58	4° 9	5°58	9°21	9°43	5°32	28°31	
M 9	11 5 35	18° 9'20	26°47	5° 4	2°51	0♌25	0°14	13°27	0°57	4°10	5°58	9°11	9°40	5°39	28°29	
T 10	11 9 31	19° 9'17	12♋5	6°48	3°57	1° 8	0°28	13°22	0°55	4°11	5°59	9° 0	9°37	5°45	28°27	
W11	11 13 28	20° 9'12	27°23	8°32	5° 4	1°51	0°42	13°17	0°53	4°11	5°59	8°49	9°33	5°52	28°25	
T 12	11 17 25	21° 9'05	12♍30	10°18	6°11	2°34	0°56	13°13	0°52	4°12	5°59	8°39	9°30	5°59	28°23	
F 13	11 21 21	22° 8'56	27°17	12° 6	7°18	3°17	1°10	13° 8	0°50	4°13	6° 0	8°31	9°27	6° 5	28°21	
S 14	11 25 18	23° 8'45	11♌36	13°54	8°26	4° 0	1°24	13° 3	0°48	4°14	6° 0	8°26	9°24	6°12	28°20	
S 15	11 29 14	24° 8'32	25°26	15°43	9°33	4°42	1°38	12°58	0°46	4°15	6° 1	8°24	9°21	6°19	28°18	
M16	11 33 11	25° 8'16	8♌46	17°34	10°41	5°25	1°51	12°54	0°44	4°16	6° 1	8°D23	9°18	6°26	28°16	
T 17	11 37 7	26° 7'58	21°41	19°26	11°49	6° 8	2° 5	12°49	0°42	4°17	6° 2	8°R24	9°14	6°32	28°15	
W18	11 41 4	27° 7'38	4♌13	21°19	12°57	6°50	2°19	12°45	0°41	4°18	6° 3	8°23	9°11	6°39	28°14	
T 19	11 45 0	28° 7'16	16°29	23°14	14° 5	7°33	2°33	12°40	0°39	4°19	6° 3	8°22	9° 8	6°46	28°12	
F 20	11 48 57	29° 6'51	28°32	25° 9	15°13	8°15	2°46	12°36	0°37	4°21	6° 4	8°18	9° 5	6°53	28°11	
S 21	11 52 54	0♍6'24	10♌28	27° 6	16°21	8°58	3° 0	12°31	0°34	4°22	6° 4	8°11	9° 2	6°59	28°10	
S 22	11 56 50	1° 5'55	22°20	29° 3	17°30	9°40	3°14	12°27	0°32	4°23	6° 5	8° 2	8°59	7° 6	28° 9	
M23	12 0 47	2° 5'24	4♎12	1♍ 2	18°38	10°23	3°27	12°22	0°30	4°24	6° 6	7°51	8°55	7°13	28° 9	
T 24	12 4 43	3° 4'50	16° 5	3° 2	19°47	11° 5	3°41	12°18	0°28	4°25	6° 6	7°39	8°52	7°19	28° 8	
W25	12 8 40	4° 4'14	28° 1	5° 3	20°55	11°47	3°54	12°14	0°26	4°27	6° 7	7°26	8°49	7°26	28° 7	
T 26	12 12 36	5° 3'36	10♌ 2	7° 4	22° 4	12°30	4° 8	12° 9	0°24	4°28	6° 8	7°15	8°46	7°33	28° 7	
F 27	12 16 33	6° 2'57	22° 9	9° 6	23°13	13°12	4°21	12° 5	0°21	4°29	6° 9	7° 5	8°43	7°40	28° 6	
S 28	12 20 29	7° 2'15	4♍24	11° 9	24°22	13°54	4°34	12° 1	0°19	4°31	6° 9	6°58	8°39	7°46	28° 6	
S 29	12 24 26	8° 1'31	16°47	13°12	25°31	14°36	4°47	11°57	0°17	4°32	6°10	6°53	8°36	7°53	28° 6	
M30	12 28 22	9° 0'45	29°20	15°15	26°41	15°18	5° 1	11°53	0°15	4°33	6°11	6°51	8°33	8° 0	28° 6	
T 31	12 32 19	9♍59'58	12♌ 8	17♍18	27♋50	16♌ 0	5♋14	11♎49	0♍12	4♌35	6♌12	6°D51	8♌30	8♎ 7	28°D 6	

Delta T = -6.12 sec.

APRIL 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	12 36 16	10♍59'09	25♌11	19♍20	28♋59	16♌42	5♋27	11°R45	0°R10	4♌36	6♌13	6♌52	8♌27	8♎13	28°R 6	
T 2	12 40 12	11°58'18	8♌33	21°22	0♋ 9	17°24	5°40	11♎41	0♍ 8	4°38	6°13	6°R53	8°24	8°20	28° 6	
F 3	12 44 9	12°57'25	22°17	23°23	1°18	18° 6	5°53	11°38	0° 5	4°39	6°14	6°52	8°20	8°27	28° 6	
S 4	12 48 5	13°56'31	6♋24	25°22	2°28	18°48	6° 6	11°34	0° 3	4°41	6°15	6°50	8°17	8°33	28° 7	
S 5	12 52 2	14°55'35	20°52	27°19	3°38	19°30	6°19	11°30	0° 0	4°43	6°16	6°46	8°14	8°40	28° 7	
M 6	12 55 58	15°54'37	5♋39	29°14	4°48	20°12	6°31	11°27	29♌58	4°44	6°17	6°40	8°11	8°47	28° 8	
T 7	12 59 55	16°53'37	20°38	1♌ 7	5°58	20°54	6°44	11°23	29°55	4°46	6°18	6°32	8° 8	8°54	28° 9	
W 8	13 3 51	17°52'35	5♍41	2°57	7° 8	21°35	6°57	11°20	29°53	4°47	6°19	6°25	8° 4	9° 0	28° 9	
T 9	13 7 48	18°51'32	20°37	4°43	8°18	22°17	7° 9	11°17	29°50	4°49	6°20	6°18	8° 1	9° 7	28°10	
F 10	13 11 45	19°50'26	5♌19	6°26	9°28	22°59	7°22	11°13	29°48	4°51	6°21	6°12	7°58	9°14	28°11	
S 11	13 15 41	20°49'18	19°39	8° 5	10°38	23°40	7°34	11°10	29°45	4°52	6°22	6° 9	7°55	9°20	28°12	
S 12	13 19 38	21°48'08	3♌32	9°40	11°48	24°22	7°46	11° 7	29°43	4°54	6°23	6°D 8	7°52	9°27	28°14	
M13	13 23 34	22°46'56	16°59	11°10	12°58	25° 4	7°59	11° 4	29°40	4°56	6°24	6° 8	7°49	9°34	28°15	
T 14	13 27 31	23°45'42	29°59	12°36	14° 9	25°45	8°11	11° 1	29°38	4°58	6°25	6°10	7°45	9°41	28°16	
W15	13 31 27	24°44'25	12♌37	13°57	15°19	26°27	8°23	10°59	29°35	5° 0	6°26	6°11	7°42	9°47	28°18	
T 16	13 35 24	25°43'07	24°56	15°13	16°30	27° 8	8°35	10°56	29°33	5° 1	6°27	6°R12	7°39	9°54	28°20	
F 17	13 39 20	26°41'45	7♌ 2	16°24	17°40	27°49	8°47	10°53	29°30	5° 3	6°28	6°11	7°36	10° 1	28°21	
S 18	13 43 17	27°40'22	18°59	17°29	18°51	28°31	8°59	10°51	29°28	5° 5	6°29	6° 9	7°33	10° 8	28°23	
S 19	13 47 14	28°38'57	0♎51	18°29	20° 1	29°12	9°11	10°48	29°25	5° 7	6°30	6° 5	7°30	10°14	28°25	
M20	13 51 10	29°37'29	22°43	19°24	21°12	29°53	9°22	10°46	29°22	5° 9	6°31	6° 0	7°26	10°21	28°27	
T 21	13 55 7	0♌35'59	14°38	20°13	22°23	0♌34	9°34	10°44	29°20	5°11	6°33	5°53	7°23	10°28	28°29	
W22	13 59 3	1°34'27	6♌39	20°56	23°33	1°16	9°45	10°41	29°17	5°13	6°34	5°47	7°20	10°34	28°31	
T 23	14 3 0	2°32'53	18°48	21°34	24°44	1°57	9°57	10°39	29°15	5°15	6°35	5°41	7°17	10°41	28°34	
F 24	14 6 56	3°31'18	1♍ 6	22° 6	25°55	2°38	10° 8	10°37	29°12	5°16	6°36	5°36	7°14	10°48	28°36	
S 25	14 10 53	4°29'40	13°35	22°32	27° 6	3°19	10°19	10°36	29°10	5°18	6°37	5°33	7°10	10°55	28°39	
S 26	14 14 49	5°28'01	26°14	22°52	28°17	4° 0	10°30	10°34	29° 7	5°20	6°38	5°31	7° 7	11° 1	28°41	
M27	14 18 46	6°26'19	9♌ 6	23° 7	29°28	4°41	10°41	10°32	29° 5	5°22	6°40	5°D31	7° 4	11° 8	28°44	
T 28	14 22 43	7°24'37	22°11	23°16	0♍39	5°22	10°52	10°31	29° 2	5°24	6°41	5°32	7° 1	11°15	28°47	
W29	14 26 39	8°22'53	5♌29	23°R19	1°50	6° 3	11° 3	10°29	29° 0	5°27	6°42	5°33	6°58	11°22	28°50	
T 30	14 30 36	9♌21'07	19♌ 1	23♌18	3♍ 1	6♌44	11♋14	10♎28	28♌57	5♌29	6♌43	5♌35	6♌55	11♎28	28°R53	

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SWISS EPHEMERIS for the year 1891

MAY 1891

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
F 1	14 34 32	10♈19'19"	2♋49	23°R11	4♉12	7♊24	11♋25	10°R26	28°R54	5♊31	6♊44	5♊36	6♊51	11♋35	28♌56
S 2	14 38 29	11°17'31"	16°51'	22♈59	5°23'	8°5'	11°35'	10♉25	28♌52	5°33'	6°46'	5°R36	6°48'	11°42'	28°59'
S 3	14 42 25	12°15'40"	1♋7	22°42'	6°35'	8°46'	11°46'	10°24'	28°50'	5°35'	6°47'	5°35'	6°45'	11°48'	29°2'
M 4	14 46 22	13°13'49"	15°34'	22°21'	7°46'	9°27'	11°56'	10°23'	28°47'	5°37'	6°48'	5°33'	6°42'	11°55'	29°5'
T 5	14 50 18	14°11'55"	0♉9	21°56'	8°57'	10°7'	12°6'	10°22'	28°45'	5°39'	6°49'	5°30'	6°39'	12°2'	29°9'
W 6	14 54 15	15°10'01"	14°45'	21°28'	10°9'	10°48'	12°16'	10°22'	28°42'	5°41'	6°51'	5°27'	6°36'	12°9'	29°12'
T 7	14 58 12	16°8'05"	29°17'	20°57'	11°20'	11°29'	12°26'	10°21'	28°40'	5°43'	6°52'	5°25'	6°32'	12°15'	29°16'
F 8	15 2 8	17°6'07"	13♈39	20°24'	12°31'	12°9'	12°36'	10°20'	28°37'	5°45'	6°53'	5°23'	6°29'	12°22'	29°20'
S 9	15 6 5	18°4'08"	27°44'	19°50'	13°43'	12°50'	12°46'	10°20'	28°35'	5°48'	6°55'	5°22'	6°26'	12°29'	29°23'
S 10	15 10 1	19°2'07"	11♊30	19°14'	14°54'	13°30'	12°56'	10°20'	28°33'	5°50'	6°56'	5°D22	6°23'	12°35'	29°27'
M11	15 13 58	20°0'05"	24°53'	18°37'	16°6'	14°11'	13°5'	10°19'	28°30'	5°52'	6°57'	5°23'	6°20'	12°42'	29°31'
T 12	15 17 54	20°58'01"	7♌54	18°1'	17°17'	14°51'	13°15'	10°19'	28°28'	5°54'	6°59'	5°24'	6°16'	12°49'	29°35'
W13	15 21 51	21°55'55"	20°35'	17°26'	18°29'	15°32'	13°24'	10°D19	28°26'	5°56'	7°0'	5°25'	6°13'	12°56'	29°39'
T 14	15 25 47	22°53'47"	2♌57	16°53'	19°40'	16°12'	13°33'	10°19'	28°23'	5°58'	7°1'	5°26'	6°10'	13°2'	29°44'
F 15	15 29 44	23°51'38"	15°6'	16°21'	20°52'	16°52'	13°42'	10°19'	28°21'	6°1'	7°3'	5°27'	6°7'	13°9'	29°48'
S 16	15 33 41	24°49'27"	27°5'	15°52'	22°4'	17°33'	13°51'	10°20'	28°19'	6°3'	7°4'	5°R27	6°4'	13°16'	29°52'
S 17	15 37 37	25°47'14"	8♍58	15°26'	23°15'	18°13'	14°0'	10°20'	28°17'	6°5'	7°5'	5°27'	6°1'	13°23'	29°57'
M18	15 41 34	26°44'59"	20°52'	15°3'	24°27'	18°53'	14°8'	10°21'	28°15'	6°7'	7°7'	5°26'	5°57'	13°29'	0♎1
T 19	15 45 30	27°42'43"	2♍49	14°44'	25°39'	19°33'	14°17'	10°21'	28°13'	6°10'	7°8'	5°25'	5°54'	13°36'	0°6'
W20	15 49 27	28°40'25"	14°53'	14°29'	26°50'	20°14'	14°25'	10°22'	28°10'	6°12'	7°9'	5°24'	5°51'	13°43'	0°10'
T 21	15 53 23	29°38'06"	27°9'	14°18'	28°2'	20°54'	14°34'	10°23'	28°8'	6°14'	7°11'	5°23'	5°48'	13°49'	0°15'
F 22	15 57 20	0♎35'45"	9♍37	14°11'	29°14'	21°34'	14°42'	10°24'	28°6'	6°16'	7°12'	5°23'	5°45'	13°56'	0°20'
S 23	16 1 16	1°33'23"	22°21'	14°D 9	0♌26	22°14'	14°50'	10°25'	28°4'	6°18'	7°13'	5°22'	5°42'	14°3'	0°25'
S 24	16 5 13	2°31'00"	5♌20	14°11'	1°37'	22°54'	14°57'	10°26'	28°2'	6°21'	7°15'	5°D22	5°38'	14°10'	0°30'
M25	16 9 10	3°28'36"	18°34'	14°18'	2°49'	23°34'	15°5'	10°27'	28°0'	6°23'	7°16'	5°22'	5°35'	14°16'	0°35'
T 26	16 13 6	4°26'10"	2♌3	14°29'	4°1'	24°14'	15°13'	10°28'	27°59'	6°25'	7°17'	5°22'	5°32'	14°23'	0°40'
W27	16 17 3	5°23'43"	15°45'	14°45'	5°13'	24°54'	15°20'	10°30'	27°57'	6°27'	7°19'	5°R23	5°29'	14°30'	0°45'
T 28	16 20 59	6°21'16"	29°38'	15°5'	6°25'	25°34'	15°27'	10°31'	27°55'	6°30'	7°20'	5°22'	5°26'	14°36'	0°50'
F 29	16 24 56	7°18'47"	13♋40	15°30'	7°37'	26°13'	15°35'	10°33'	27°53'	6°32'	7°22'	5°22'	5°22'	14°43'	0°55'
S 30	16 28 52	8°16'18"	27°49'	15°59'	8°49'	26°53'	15°42'	10°35'	27°51'	6°34'	7°23'	5°22'	5°19'	14°50'	1°1'
S 31	16 32 49	9♎13'48"	12♋3	16♌32	10♌1	27♊33	15♋48	10♉37	27♌50	6♊36	7♊24	5°D22	5♊16	14♋57	1♌6

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JUNE 1891

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
M 1	16 36 46	10♎11'17"	26♋18	17♌9	11♌13	28♊13	15♋55	10♉38	27°R48	6♊39	7♊26	5♊22	5♊13	15♋3	1♌12
T 2	16 40 42	11°8'45"	10♉32	17°50'	12°25'	28°53'	16°2'	10°40'	27♌46	6°41'	7°27'	5°23'	5°10'	15°10'	1°17'
W 3	16 44 39	12°6'13"	24°43'	18°35'	13°37'	29°32'	16°8'	10°43'	27°45'	6°43'	7°28'	5°23'	5°7'	15°17'	1°23'
T 4	16 48 35	13°3'40"	8♌47	19°23'	14°49'	0♌12	16°14'	10°45'	27°43'	6°45'	7°30'	5°24'	5°3'	15°24'	1°28'
F 5	16 52 32	14°1'06"	22°42'	20°16'	16°1'	0°52'	16°20'	10°47'	27°42'	6°48'	7°31'	5°24'	5°0'	15°30'	1°34'
S 6	16 56 28	14°58'32"	6♊23	21°12'	17°14'	1°31'	16°26'	10°50'	27°40'	6°50'	7°33'	5°R25	4°57'	15°37'	1°40'
S 7	17 0 25	15°55'56"	19°50'	22°11'	18°26'	2°11'	16°32'	10°52'	27°39'	6°52'	7°34'	5°24'	4°54'	15°44'	1°46'
M 8	17 4 21	16°53'20"	3♌1	23°14'	19°38'	2°51'	16°37'	10°55'	27°37'	6°54'	7°35'	5°23'	4°51'	15°50'	1°52'
T 9	17 8 18	17°50'43"	15°54'	24°20'	20°50'	3°30'	16°43'	10°57'	27°36'	6°57'	7°37'	5°22'	4°48'	15°57'	1°58'
W10	17 12 15	18°48'06"	28°31'	25°30'	22°2'	4°10'	16°48'	11°0'	27°35'	6°59'	7°38'	5°20'	4°44'	16°4'	2°4'
T 11	17 16 11	19°45'27"	10♌52	26°43'	23°15'	4°49'	16°53'	11°3'	27°33'	7°1'	7°39'	5°18'	4°41'	16°11'	2°10'
F 12	17 20 8	20°42'47"	23°1'	27°59'	24°27'	5°29'	16°58'	11°6'	27°32'	7°3'	7°41'	5°16'	4°38'	16°17'	2°16'
S 13	17 24 4	21°40'06"	5♍0	29°18'	25°39'	6°8'	17°3'	11°9'	27°31'	7°5'	7°42'	5°15'	4°35'	16°24'	2°22'
S 14	17 28 1	22°37'24"	16°54'	0♎40	26°52'	6°47'	17°7'	11°12'	27°30'	7°8'	7°43'	5°14'	4°32'	16°31'	2°28'
M15	17 31 57	23°34'42"	28°47'	2°6'	28°4'	7°27'	17°11'	11°16'	27°29'	7°10'	7°45'	5°D14	4°28'	16°37'	2°35'
T 16	17 35 54	24°31'58"	10♌45	3°34'	29°16'	8°6'	17°16'	11°19'	27°28'	7°12'	7°46'	5°15'	4°25'	16°44'	2°41'
W17	17 39 50	25°29'14"	22°50'	5°6'	0♎29	8°46'	17°20'	11°22'	27°27'	7°14'	7°47'	5°16'	4°22'	16°51'	2°47'
T 18	17 43 47	26°26'29"	5♍9	6°40'	1°41'	9°25'	17°24'	11°26'	27°26'	7°16'	7°49'	5°18'	4°19'	16°58'	2°54'
F 19	17 47 44	27°23'43"	17°44'	8°18'	2°54'	10°4'	17°27'	11°29'	27°25'	7°18'	7°50'	5°19'	4°16'	17°4'	3°0'
S 20	17 51 40	28°20'57"	0♌38	9°58'	4°6'	10°43'	17°31'	11°33'	27°24'	7°20'	7°51'	5°R20	4°13'	17°11'	3°7'
S 21	17 55 37	29°18'10"	13°53'	11°42'	5°18'	11°23'	17°34'	11°37'	27°23'	7°23'	7°52'	5°20'	4°9'	17°18'	3°13'
M22	17 59 33	0♌15'23"	27°28'	13°28'	6°31'	12°2'	17°37'	11°41'	27°23'	7°25'	7°54'	5°18'	4°6'	17°25'	3°20'
T 23	18 3 30	1°12'35"	11♌23	15°17'	7°44'	12°41'	17°40'	11°45'	27°22'	7°27'	7°55'	5°16'	4°3'	17°31'	3°26'
W24	18 7 26	2°9'48"	25°32'	17°9'	8°56'	13°20'	17°43'	11°49'	27°21'	7°29'	7°56'	5°13'	4°0'	17°38'	3°33'
T 25	18 11 23	3°7'00"	9♌53	19°3'	10°9'	13°59'	17°45'	11°53'	27°21'	7°31'	7°58'	5°9'	3°57'	17°45'	3°40'
F 26	18 15 19	4°4'11"	24°19'	21°0'	11°21'	14°38'	17°48'	11°57'	27°20'	7°33'	7°59'	5°5'	3°54'	17°51'	3°47'
S 27	18 19 16	5°1'23"	8♋45	23°0'	12°34'	15°17'	17°50'	12°1'	27°20'	7°35'	8°0'	5°2'	3°50'	17°58'	3°53'
S 28	18 23 13	5°58'35"	23°6'	25°1'	13°47'	15°56'	17°52'	12°6'	27°19'	7°37'	8°1'	5°0'	3°47'	18°5'	4°0'
M29	18 27 9	6°55'47"	7♉20	27°5'	14°59'	16°35'	17°54'	12°10'	27°19'	7°39'	8°3'	4°D59	3°44'	18°12'	4°7'
T 30	18 31 6	7♌52'59"	21♉24	29♊10	16♊12	17♌14	17♋55	12♉15	27♌19	7♊41	8♊4	5♊0	3♊41	18♋18	4♌14

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SWISS EPHEMERIS for the year 1891

JULY 1891

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	18 35 2	8°50'11	5°8'16	1°57'17	17°11'25	17°53'53	17°57'57	12°19'19	27°18'18	7°43'43	8°11'11	5°11'11	3°11'38	18°25'25	4°21'21
T 2	18 38 59	9°47'23	18°57'57	3°25'25	18°38'38	18°32'32	17°58'58	12°24'24	27°18'18	7°45'45	8°06'06	5°03'03	3°34'34	18°32'32	4°28'28
F 3	18 42 55	10°44'36	2°11'26	5°34'34	19°50'50	19°11'11	17°59'59	12°29'29	27°18'18	7°47'47	8°07'07	5°03'03	3°31'31	18°38'38	4°35'35
S 4	18 46 52	11°41'49	15°43'43	7°44'44	21°03'03	19°50'50	18°00'00	12°33'33	27°18'18	7°49'49	8°08'08	5°03'03	3°28'28	18°45'45	4°42'42
S 5	18 50 48	12°39'02	28°47'47	9°54'54	22°16'16	20°29'29	18°00'00	12°38'38	27°18'18	7°51'51	8°10'10	5°01'01	3°25'25	18°52'52	4°49'49
M 6	18 54 45	13°36'15	11°53'53	12°04'04	23°29'29	21°08'08	18°01'01	12°43'43	27°18'18	7°53'53	8°11'11	4°57'57	3°22'22	18°59'59	4°56'56
T 7	18 58 42	14°33'29	24°18'18	14°14'14	24°42'42	21°47'47	18°01'01	12°48'48	27°18'18	7°55'55	8°12'12	4°51'51	3°19'19	19°05'05	5°03'03
W 8	19 2 38	15°30'42	6°04'45	16°24'24	25°55'55	22°26'26	18°R 1	12°53'53	27°18'18	7°57'57	8°13'13	4°44'44	3°15'15	19°12'12	5°10'10
T 9	19 6 35	16°27'55	19°00'00	18°33'33	27°08'08	23°05'05	18°01'01	12°59'59	27°18'18	7°58'58	8°14'14	4°37'37	3°12'12	19°19'19	5°18'18
F 10	19 10 31	17°25'09	1°11'11	20°41'41	28°21'21	23°44'44	18°01'01	13°04'04	27°18'18	8°00'00	8°15'15	4°30'30	3°09'09	19°25'25	5°25'25
S 11	19 14 28	18°22'22	13°03'03	22°48'48	29°34'34	24°22'22	18°00'00	13°09'09	27°18'18	8°02'02	8°16'16	4°23'23	3°06'06	19°32'32	5°32'32
S 12	19 18 24	19°19'35	24°55'55	24°54'54	0°54'47	25°01'01	17°59'59	13°15'15	27°19'19	8°04'04	8°18'18	4°19'19	3°03'03	19°39'39	5°39'39
M13	19 22 21	20°16'49	6°44'47	26°58'58	2°00'00	25°40'40	17°58'58	13°20'20	27°19'19	8°06'06	8°19'19	4°16'16	3°00'00	19°46'46	5°47'47
T 14	19 26 17	21°14'02	18°43'43	29°01'01	3°13'13	26°19'19	17°57'57	13°25'25	27°20'20	8°07'07	8°20'20	4°15'15	2°56'56	19°52'52	5°54'54
W15	19 30 14	22°11'16	0°11'47	1°02'02	4°26'26	26°57'57	17°56'56	13°31'31	27°20'20	8°09'09	8°21'21	4°15'15	2°53'53	19°59'59	6°01'01
T 16	19 34 11	23°08'29	13°04'04	3°02'02	5°39'39	27°36'36	17°54'54	13°37'37	27°21'21	8°11'11	8°22'22	4°16'16	2°50'50	20°06'06	6°08'08
F 17	19 38 07	24°05'43	25°40'40	5°00'00	6°52'52	28°15'15	17°53'53	13°42'42	27°21'21	8°13'13	8°23'23	4°17'17	2°47'47	20°13'13	6°16'16
S 18	19 42 04	25°02'57	8°47'38	6°56'56	8°05'05	28°53'53	17°51'51	13°48'48	27°22'22	8°14'14	8°24'24	4°17'17	2°44'44	20°19'19	6°23'23
S 19	19 46 00	26°00'12	22°01'01	8°51'51	9°19'19	29°32'32	17°49'49	13°54'54	27°22'22	8°16'16	8°25'25	4°16'16	2°40'40	20°26'26	6°31'31
M20	19 49 57	26°57'26	5°35'50	10°44'44	10°32'32	0°01'11	17°47'47	14°00'00	27°23'23	8°18'18	8°26'26	4°12'12	2°37'37	20°33'33	6°38'38
T 21	19 53 53	27°54'42	20°04'04	12°35'35	11°45'45	0°49'49	17°44'44	14°06'06	27°24'24	8°19'19	8°27'27	4°07'07	2°34'34	20°39'39	6°45'45
W22	19 57 50	28°51'57	4°43'47	14°24'24	12°59'59	1°28'28	17°41'41	14°12'12	27°25'25	8°21'21	8°28'28	3°59'59	2°31'31	20°46'46	6°53'53
T 23	20 01 47	29°49'14	19°24'24	16°11'11	14°12'12	2°06'06	17°39'39	14°18'18	27°26'26	8°22'22	8°29'29	3°51'51	2°28'28	20°53'53	7°00'00
F 24	20 05 43	0°04'31	4°41'16	17°57'57	15°25'25	2°45'45	17°36'36	14°24'24	27°26'26	8°24'24	8°29'29	3°43'43	2°25'25	21°00'00	7°08'08
S 25	20 09 40	1°43'48	19°05'05	19°41'41	16°39'39	3°24'24	17°32'32	14°30'30	27°27'27	8°25'25	8°30'30	3°36'36	2°21'21	21°06'06	7°15'15
S 26	20 13 36	2°41'07	3°43'43	21°23'23	17°52'52	4°02'02	17°29'29	14°36'36	27°29'29	8°27'27	8°31'31	3°31'31	2°18'18	21°13'13	7°23'23
M27	20 17 33	3°38'26	18°05'05	23°04'04	19°05'05	4°41'41	17°25'25	14°42'42	27°30'30	8°28'28	8°32'32	3°27'27	2°15'15	21°20'20	7°30'30
T 28	20 21 29	4°35'47	2°09'09	24°42'42	20°19'19	5°19'19	17°22'22	14°49'49	27°31'31	8°30'30	8°33'33	3°26'26	2°12'12	21°26'26	7°38'38
W29	20 25 26	5°33'09	15°54'54	26°19'19	21°32'32	5°58'58	17°18'18	14°55'55	27°32'32	8°31'31	8°34'34	3°27'27	2°09'09	21°33'33	7°45'45
T 30	20 29 22	6°30'32	29°21'21	27°55'55	22°46'46	6°36'36	17°14'14	15°01'01	27°33'33	8°33'33	8°35'35	3°27'27	2°06'06	21°40'40	7°53'53
F 31	20 33 19	7°27'56	12°11'32	29°02'28	24°50'00	7°01'15	17°09'09	15°08'08	27°34'34	8°34'34	8°35'35	3°27'27	2°06'06	21°47'47	8°00'00

Delta T = -6.16 sec.

AUGUST 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	20 37 16	8°02'52'21	25°11'29	1°11'00	25°51'13	7°01'53	17°R 5	15°11'14	27°36'36	8°11'35	8°11'36	3°R 25	1°11'59	21°11'53	8°01'08
S 2	20 41 12	9°22'48	8°51'14	2°30'30	26°27'27	8°31'31	17°R 0	15°21'21	27°37'37	8°37'37	8°37'37	3°11'20	1°56'56	22°00'00	8°15'15
M 3	20 45 09	10°20'15	20°47'47	3°58'58	27°40'40	9°10'10	16°55'55	15°27'27	27°39'39	8°38'38	8°38'38	3°13'13	1°53'53	22°07'07	8°23'23
T 4	20 49 05	11°17'44	3°01'11	5°25'25	28°54'54	9°48'48	16°50'50	15°34'34	27°40'40	8°39'39	8°38'38	3°03'03	1°50'50	22°13'13	8°30'30
W 5	20 53 02	12°15'13	15°26'26	6°49'49	0°08'08	10°27'27	16°45'45	15°41'41	27°42'42	8°40'40	8°39'39	2°51'51	1°46'46	22°20'20	8°38'38
T 6	20 56 58	13°12'43	27°33'33	8°12'12	1°22'22	11°05'05	16°40'40	15°47'47	27°43'43	8°41'41	8°40'40	2°39'39	1°43'43	22°27'27	8°45'45
F 7	21 00 55	14°10'15	9°11'32	9°33'33	1°25'25	11°44'44	16°35'35	15°54'54	27°45'45	8°43'43	8°40'40	2°26'26	1°40'40	22°34'34	8°53'53
S 8	21 04 51	15°07'47	21°26'26	10°52'52	3°49'49	12°22'22	16°29'29	16°01'01	27°46'46	8°44'44	8°41'41	2°15'15	1°37'37	22°40'40	9°00'00
S 9	21 08 48	16°05'20	3°41'16	12°09'09	5°03'03	13°00'00	16°23'23	16°08'08	27°48'48	8°45'45	8°42'42	2°06'06	1°34'34	22°47'47	9°08'08
M10	21 12 45	17°02'54	15°06'06	13°25'25	6°17'17	13°39'39	16°17'17	16°15'15	27°50'50	8°46'46	8°42'42	1°59'59	1°31'31	22°54'54	9°15'15
T 11	21 16 41	18°00'29	27°00'00	14°38'38	7°31'31	14°17'17	16°11'11	16°21'21	27°52'52	8°47'47	8°43'43	1°55'55	1°27'27	23°00'00	9°23'23
W12	21 20 38	18°58'05	9°11'01	15°49'49	8°45'45	14°55'55	16°05'05	16°28'28	27°54'54	8°48'48	8°43'43	1°54'54	1°24'24	23°07'07	9°30'30
T 13	21 24 34	19°55'42	21°16'16	16°57'57	9°59'59	15°34'34	15°59'59	16°35'35	27°56'56	8°49'49	8°44'44	1°53'53	1°21'21	23°14'14	9°38'38
F 14	21 28 31	20°53'20	3°47'48	18°04'04	11°12'12	16°12'12	15°53'53	16°42'42	27°57'57	8°50'50	8°45'45	1°53'53	1°18'18	23°21'21	9°45'45
S 15	21 32 27	21°50'59	16°44'44	19°08'08	12°26'26	16°50'50	15°46'46	16°49'49	27°59'59	8°51'51	8°45'45	1°53'53	1°15'15	23°27'27	9°52'52
S 16	21 36 24	22°48'40	0°03'03	20°09'09	13°40'40	17°28'28	15°39'39	16°56'56	28°02'02	8°52'52	8°46'46	1°50'50	1°11'11	23°34'34	10°00'00
M17	21 40 20	23°46'21	13°58'58	21°08'08	14°54'54	18°07'07	15°33'33	17°04'04	28°04'04	8°53'53	8°46'46	1°46'46	1°08'08	23°41'41	10°07'07
T 18	21 44 17	24°44'03	28°19'19	22°04'04	16°08'08	18°45'45	15°26'26	17°11'11	28°06'06	8°54'54	8°47'47	1°38'38	1°05'05	23°47'47	10°15'15
W19	21 48 14	25°41'47	13°43'43	22°57'57	17°23'23	19°23'23	15°19'19	17°18'18	28°08'08	8°55'55	8°47'47	1°29'29	1°02'02	23°54'54	10°22'22
T 20	21 52 10	26°39'31	28°09'09	23°48'48	18°37'37	20°02'02	15°12'12	17°25'25	28°10'10	8°55'55	8°47'47	1°18'18	0°59'59	24°01'01	10°29'29
F 21	21 56 07	27°37'17	13°41'21	24°34'34	19°51'51	20°40'40	15°05'05	17°32'32	28°12'12	8°56'56	8°48'48	1°07'07	0°56'56	24°08'08	10°37'37
S 22	22 00 03	28°35'05	28°31'31	25°18'18	21°05'05	21°18'18	14°57'57	17°39'39	28°15'15	8°57'57	8°48'48	0°57'57	0°52'52	24°14'14	10°44'44
S 23	22 04 00	29°32'54	13°47'28	25°58'58	22°19'19	21°56'56	14°50'50	17°47'47	28°17'17	8°57'57	8°49'49	0°50'50	0°49'49	24°21'21	10°51'51
M24	22 07 56	0°11'30'45	28°05'05	26°34'34	23°33'33	22°34'34	14°43'43	17°54'54	28°19'19	8°58'58	8°49'49	0°45'45	0°46'46	24°28'28	10°59'59
T 25	22 11 53	1°28'38	12°18'18	27°05'05	24°48'48	23°13'13	14°35'35	18°01'01	28°22'22	8°58'58	8°49'49	0°43'43	0°43'43	24°34'34	11°06'06
W26	22 15 49	2°26'32	26°06'06	27°33'33	26°02'02	23°51'51	14°27'27	18°09'09	28°24'24	8°59'59	8°49'49	0°43'43	0°40'40	24°41'41	11°13'13
T 27	22 19 46	3°24'29	9°11'30	27°56'56	27°16'16	24°29'29	14°20'20	18°16'16	28°27'27	9°00'00	8°50'50	0°42'42	0°37'37	24°48'48	11°20'20
F 28	22 23 43	4°22'27	22°33'33	28°14'14	28°30'30	25°07'									

SWISS EPHEMERIS for the year 1891

SEPTEMBER 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
T 1	22 39 29	8 ^m 14'39	12 ^h 22	28°R32	3 ^m 28	27 ^h 240	13°R41	18 ^m 53	28 ^h 40	9 ^h 2	8 ^h 51	0°R15	0 ^h 21	25 ^m 21	11 ^h 56		
W 2	22 43 25	9°12'47	24°26	28 ^m 22	4°42	28°18	13 ^h 33	19° 0	28°43	9° 2	8°51	0 ^h 2	0°17	25°28	12° 3		
T 3	22 47 22	10°10'56	6 ^m 25	28° 5	5°57	28°56	13°25	19° 8	28°45	9° 3	8°51	29 ^h 48	0°14	25°35	12°10		
F 4	22 51 18	11° 9'07	18°19	27°42	7°11	29°34	13°17	19°15	28°48	9° 3	8°51	29°35	0°11	25°41	12°17		
S 5	22 55 15	12° 7'19	0 ^h 10	27°13	8°26	0 ^m 13	13° 9	19°23	28°51	9° 3	8°51	29°22	0° 8	25°48	12°24		
S 6	22 59 11	13° 5'34	12° 0	26°38	9°40	0°51	13° 1	19°30	28°54	9° 3	8°51	29°12	0° 5	25°55	12°31		
M 7	23 3 8	14° 3'49	23°50	25°56	10°55	1°29	12°53	19°38	28°57	9° 4	8°51	29° 4	0° 2	26° 2	12°38		
T 8	23 7 5	15° 2'07	5 ^m 45	25°10	12° 9	2° 7	12°45	19°45	29° 0	9° 4	8°R51	28°59	29 ^h 58	26° 8	12°45		
W 9	23 11 1	16° 0'26	17°46	24°18	13°24	2°45	12°37	19°52	29° 3	9° 4	8°51	28°57	29°55	26°15	12°52		
T 10	23 14 58	16°58'47	0 ^h 7	23°22	14°38	3°23	12°29	20° 0	29° 6	9° 4	8°51	28°D56	29°52	26°22	12°59		
F 11	23 18 54	17°57'09	12°30	22°23	15°53	4° 1	12°22	20° 7	29° 9	9° 4	8°51	28°R57	29°49	26°28	13° 5		
S 12	23 22 51	18°55'33	25°21	21°21	17° 8	4°39	12°14	20°15	29°12	9°R 4	8°51	28°57	29°46	26°35	13°12		
S 13	23 26 47	19°53'59	8 ^h 38	20°20	18°22	5°17	12° 6	20°23	29°15	9° 4	8°51	28°55	29°43	26°42	13°19		
M 14	23 30 44	20°52'26	22°23	19°18	19°37	5°56	11°58	20°30	29°18	9° 4	8°51	28°52	29°39	26°49	13°25		
T 15	23 34 40	21°50'55	6 ^h 39	18°19	20°51	6°34	11°50	20°38	29°21	9° 4	8°51	28°46	29°36	26°55	13°32		
W 16	23 38 37	22°49'25	21°22	17°24	22° 6	7°12	11°43	20°45	29°24	9° 4	8°51	28°38	29°33	27° 2	13°38		
T 17	23 42 34	23°47'57	6 ^h 27	16°34	23°21	7°50	11°35	20°53	29°28	9° 4	8°51	28°28	29°30	27° 9	13°45		
F 18	23 46 30	24°46'31	21°45	15°50	24°36	8°28	11°27	21° 0	29°31	9° 3	8°50	28°19	29°27	27°15	13°51		
S 19	23 50 27	25°45'06	7 ^h 4	15°13	25°50	9° 6	11°20	21° 8	29°34	9° 3	8°50	28°10	29°23	27°22	13°58		
S 20	23 54 23	26°43'44	22°14	14°45	27° 5	9°44	11°13	21°15	29°37	9° 3	8°50	28° 4	29°20	27°29	14° 4		
M 21	23 58 20	27°42'24	7 ^h 4	14°26	28°20	10°22	11° 5	21°22	29°41	9° 3	8°50	28° 0	29°17	27°35	14°10		
T 22	0 2 16	28°41'06	21°30	14°D17	29°34	11° 0	10°58	21°30	29°44	9° 2	8°49	27°D58	29°14	27°42	14°16		
W 23	0 6 13	29°39'50	5 ^h 28	14°18	0 ^h 49	11°38	10°51	21°37	29°48	9° 2	8°49	27°58	29°11	27°49	14°23		
T 24	0 10 9	0 ^h 38'37	18°58	14°28	2° 4	12°16	10°44	21°45	29°51	9° 2	8°49	27°59	29° 8	27°56	14°29		
F 25	0 14 6	1°37'26	2 ^h 8	14°49	3°19	12°54	10°37	21°52	29°54	9° 1	8°49	27°R59	29° 4	28° 2	14°35		
S 26	0 18 3	2°36'17	14°47	15°19	4°34	13°32	10°30	22° 0	29°58	9° 1	8°48	27°58	29° 1	28° 9	14°41		
S 27	0 21 59	3°35'11	27°14	15°58	5°48	14°11	10°23	22° 7	0 ^m 1	9° 0	8°48	27°56	28°58	28°16	14°47		
M 28	0 25 56	4°34'07	0 ^h 27	16°46	7° 3	14°49	10°17	22°15	0° 5	9° 0	8°47	27°50	28°55	28°22	14°53		
T 29	0 29 52	5°33'05	21°31	17°42	8°18	15°27	10°10	22°22	0° 8	8°59	8°47	27°43	28°52	28°29	14°58		
W 30	0 33 49	6°32'05	3 ^m 28	18 ^m 45	9 ^h 33	16 ^m 5	10 ^h 4	22 ^m 29	0 ^m 12	8 ^h 59	8 ^h 47	27 ^h 34	28 ^h 49	28 ^m 36	15 ^h 2		

Delta T = -6.20 sec.

OCTOBER 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
T 1	0 37 45	7 ^h 31'07	15 ^m 21	19 ^m 55	10 ^h 48	16 ^m 43	9°R58	22 ^m 37	0 ^m 15	8°R58	8°R46	27°R24	28 ^h 45	28 ^m 43	15 ^h 10		
F 2	0 41 42	8°30'11	27°12	21°11	12° 3	17°21	9 ^h 52	22°44	0°19	8 ^h 57	8 ^h 46	27 ^h 15	28°42	28°49	15°16		
S 3	0 45 38	9°29'18	9 ^h 3	22°32	13°18	17°59	9°46	22°51	0°22	8°57	8°45	27° 6	28°39	28°56	15°21		
S 4	0 49 35	10°28'26	20°55	23°58	14°33	18°37	9°40	22°59	0°26	8°56	8°45	26°59	28°36	29° 3	15°27		
M 5	0 53 32	11°27'37	2 ^h 51	25°27	15°47	19°15	9°34	23° 6	0°30	8°55	8°44	26°54	28°33	29° 9	15°32		
T 6	0 57 28	12°26'49	14°52	27° 0	17° 2	19°53	9°29	23°13	0°33	8°55	8°44	26°51	28°29	29°16	15°37		
W 7	1 1 25	13°26'04	27° 0	28°36	18°17	20°31	9°23	23°20	0°37	8°54	8°43	26°D50	28°26	29°23	15°43		
T 8	1 5 21	14°25'20	9 ^h 19	0 ^h 14	19°32	21° 9	9°18	23°28	0°40	8°53	8°42	26°50	28°23	29°29	15°48		
F 9	1 9 18	15°24'38	21°52	1°53	20°47	21°47	9°13	23°35	0°44	8°52	8°42	26°52	28°20	29°36	15°53		
S 10	1 13 14	16°23'58	4 ^h 43	3°34	22° 2	22°25	9° 8	23°42	0°48	8°51	8°41	26°53	28°17	29°43	15°58		
S 11	1 17 11	17°23'20	17°56	5°16	23°17	23° 3	9° 4	23°49	0°51	8°50	8°41	26°R54	28°14	29°50	16° 3		
M 12	1 21 7	18°22'44	1 ^h 33	6°59	24°32	23°41	8°59	23°56	0°55	8°49	8°40	26°53	28°10	29°56	16° 8		
T 13	1 25 4	19°22'09	15°37	8°43	25°47	24°20	8°55	24° 3	0°59	8°49	8°39	26°51	28° 7	0 ^h 3	16°13		
W 14	1 29 1	20°21'36	0 ^h 5	10°26	27° 2	24°58	8°51	24°10	1° 3	8°48	8°38	26°47	28° 4	0°10	16°18		
T 15	1 32 57	21°21'04	14°56	12°10	28°17	25°36	8°47	24°17	1° 6	8°47	8°38	26°42	28° 1	0°16	16°23		
F 16	1 36 54	22°20'35	0 ^h 1	13°54	29°32	26°14	8°43	24°24	1°10	8°46	8°37	26°37	27°58	0°23	16°27		
S 17	1 40 50	23°20'07	15°13	15°38	0 ^m 47	26°52	8°39	24°31	1°14	8°44	8°36	26°32	27°54	0°30	16°32		
S 18	1 44 47	24°19'42	0 ^h 21	17°21	2° 2	27°30	8°36	24°38	1°18	8°43	8°36	26°28	27°51	0°36	16°36		
M 19	1 48 43	25°19'18	15°15	19° 4	3°17	28° 8	8°33	24°45	1°21	8°42	8°35	26°26	27°48	0°43	16°41		
T 20	1 52 40	26°18'57	29°48	20°47	4°32	28°46	8°30	24°51	1°25	8°41	8°34	26°D26	27°45	0°50	16°45		
W 21	1 56 36	27°18'37	13 ^h 55	22°29	5°47	29°24	8°27	24°58	1°29	8°40	8°33	26°27	27°42	0°57	16°49		
T 22	2 0 33	28°18'21	27°34	24°11	7° 2	0 ^h 2	8°24	25° 5	1°33	8°39	8°32	26°28	27°39	1° 3	16°53		
F 23	2 4 30	29°18'06	10 ^h 47	25°53	8°17	0°40	8°22	25°12	1°36	8°38	8°31	26°30	27°35	1°10	16°57		
S 24	2 8 26	0 ^m 17'54	23°36	27°34	9°32	1°18	8°20	25°18	1°40	8°36	8°31	26°31	27°32	1°17	17° 1		
S 25	2 12 23	1°17'43	6 ^h 4	29°14	10°47	1°56	8°17	25°25	1°44	8°35	8°30	26°R31	27°29	1°23	17° 5		
M 26	2 16 19	2°17'35	18°17	0 ^m 54	12° 2	2°34	8°16	25°31	1°48	8°34	8°29	26°30	27°26	1°30	17° 9		
T 27	2 20 16	3°17'29	0 ^m 18	2°34	13°17	3°12	8°14	25°38	1°51	8°32	8°28	26°28	27°23	1°37	17°13		
W 28	2 24 12	4°17'26	12°13	4°12	14°32	3°50	8°13	25°44	1°55	8°31	8°27	26°25	27°20	1°43	17°16		
T 29	2 28 9	5°17'24	24° 3	5°51	15°47	4°28	8°11	25°51	1°59	8°30	8°26	26°21	27°16	1°50	17°20		
F 30	2 32 5	6°17'24	5 ^h 54	7°29	17° 2	5° 6	8°10	25°57	2° 3	8°28	8°25	26°18	27°13	1°57	17°23		
S 31	2 36 2	7 ^m 17'27	17 ^h 47	9 ^m 6	18 ^m 17	5 ^h 44	8 ^h 9	26 ^m 3	2 ^m 6	8 ^h 27	8 ^h 24	26 ^h 15	27 ^h 10	2 ^h 4	17 ^h 27		

Delta T = -6.22 sec.

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SWISS EPHEMERIS for the year 1891

NOVEMBER 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	2 39 58	8♍17'31	29♂45	10♍43	19♍32	6♂22	8°R 9	26♍9	2♍10	8°R26	8°R23	26°R12	27♂7	2♂10	17♂30		
M 2	2 43 55	9°17'38	11♍49	12°20	20°47	7° 0	8♂8	26°16	2°14	8♍24	8♍22	26♂11	27° 4	2°17	17°33		
T 3	2 47 52	10°17'46	24° 2	13°56	22° 2	7°39	8° 8	26°22	2°18	8°23	8°21	26°D10	27° 0	2°24	17°36		
W 4	2 51 48	11°17'56	6♂24	15°31	23°17	8°17	8°D 8	26°28	2°21	8°21	8°20	26°10	26°57	2°30	17°39		
T 5	2 55 45	12°18'08	18°58	17° 7	24°32	8°55	8° 8	26°34	2°25	8°20	8°19	26°11	26°54	2°37	17°42		
F 6	2 59 41	13°18'21	1♂44	18°42	25°47	9°33	8° 9	26°40	2°29	8°18	8°18	26°12	26°51	2°44	17°45		
S 7	3 3 38	14°18'37	14°45	20°16	27° 2	10°11	8° 9	26°46	2°33	8°17	8°17	26°13	26°48	2°50	17°47		
S 8	3 7 34	15°18'53	28° 3	21°50	28°17	10°49	8°10	26°51	2°36	8°15	8°16	26°14	26°45	2°57	17°50		
M 9	3 11 31	16°19'11	11♂38	23°24	29°32	11°27	8°11	26°57	2°40	8°14	8°15	26°R15	26°41	3° 4	17°52		
T 10	3 15 28	17°19'30	25°33	24°57	0♂47	12° 5	8°12	27° 3	2°44	8°12	8°14	26°15	26°38	3°11	17°55		
W11	3 19 24	18°19'51	9♂45	26°31	2° 2	12°43	8°14	27° 9	2°47	8°11	8°13	26°14	26°35	3°17	17°57		
T 12	3 23 21	19°20'13	24°14	28° 3	3°17	13°21	8°16	27°14	2°51	8° 9	8°12	26°13	26°32	3°24	17°59		
F 13	3 27 17	20°20'36	8♂55	29°36	4°32	13°59	8°17	27°20	2°55	8° 7	8°11	26°13	26°29	3°31	18° 1		
S 14	3 31 14	21°21'01	23°44	1♂8	5°47	14°37	8°19	27°25	2°58	8° 6	8°10	26°12	26°26	3°37	18° 3		
S 15	3 35 10	22°21'28	8♂32	2°40	7° 3	15°15	8°22	27°30	3° 2	8° 4	8° 9	26°12	26°22	3°44	18° 5		
M16	3 39 7	23°21'56	23°13	4°12	8°18	15°53	8°24	27°36	3° 6	8° 3	8° 8	26°D12	26°19	3°51	18° 7		
T 17	3 43 3	24°22'25	7♍39	5°43	9°33	16°31	8°27	27°41	3° 9	8° 1	8° 7	26°12	26°16	3°57	18° 8		
W18	3 47 0	25°22'56	21°46	7°14	10°48	17° 9	8°30	27°46	3°13	7°59	8° 6	26°12	26°13	4° 4	18°10		
T 19	3 50 57	26°23'29	5♂29	8°45	12° 3	17°47	8°33	27°51	3°16	7°58	8° 4	26°R12	26°10	4°11	18°11		
F 20	3 54 53	27°24'04	18°47	10°16	13°18	18°25	8°36	27°56	3°20	7°56	8° 3	26°12	26° 6	4°17	18°13		
S 21	3 58 50	28°24'40	1♂42	11°46	14°33	19° 3	8°39	28° 1	3°23	7°54	8° 2	26°12	26° 3	4°24	18°14		
S 22	4 2 46	29°25'18	14°16	13°16	15°48	19°41	8°43	28° 6	3°27	7°53	8° 1	26°11	26° 0	4°31	18°15		
M23	4 6 43	0♂25'57	26°32	14°46	17° 3	20°19	8°47	28°11	3°30	7°51	8° 0	26°D11	25°57	4°38	18°16		
T 24	4 10 39	1°26'38	8♍35	16°16	18°18	20°58	8°51	28°15	3°34	7°49	7°59	26°11	25°54	4°44	18°17		
W25	4 14 36	2°27'21	20°29	17°45	19°33	21°36	8°55	28°20	3°37	7°48	7°58	26°11	25°51	4°51	18°18		
T 26	4 18 32	3°28'05	2♂19	19°13	20°48	22°14	8°59	28°24	3°41	7°46	7°57	26°12	25°47	4°58	18°18		
F 27	4 22 29	4°28'51	14°10	20°41	22° 3	22°52	9° 4	28°29	3°44	7°44	7°55	26°13	25°44	5° 4	18°19		
S 28	4 26 26	5°29'38	26° 6	22° 9	23°18	23°30	9° 9	28°33	3°47	7°43	7°54	26°14	25°41	5°11	18°19		
S 29	4 30 22	6°30'27	8♍10	23°36	24°33	24° 8	9°13	28°38	3°51	7°41	7°53	26°15	25°38	5°18	18°20		
M30	4 34 19	7♂31'17	20♍24	25♂2	25♂48	24♂46	9♂19	28♍42	3♍54	7♍39	7♍52	26°R15	25♂35	5♂24	18♂20		

Delta T = -6.24 sec.

DECEMBER 1891

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
T 1	4 38 15	8♂32'09	2♂51	26♂28	27♂3	25♂24	9♂24	28♍46	3♍57	7°R37	7°R51	26°R15	25♂32	5♂31	18♂20		
W 2	4 42 12	9°33'01	15°32	27°52	28°18	26° 2	9°29	28°50	4° 1	7♍36	7♍50	26♂15	25°28	5°38	18°R20		
T 3	4 46 8	10°33'55	28°27	29°16	29°33	26°40	9°35	28°54	4° 4	7°34	7°49	26°13	25°25	5°44	18°20		
F 4	4 50 5	11°34'50	11♂37	0♂38	0♂48	27°18	9°41	28°58	4° 7	7°32	7°47	26°11	25°22	5°51	18°20		
S 5	4 54 1	12°35'46	24°59	1°59	2° 3	27°56	9°47	29° 1	4°10	7°31	7°46	26° 9	25°19	5°58	18°19		
S 6	4 57 58	13°36'42	8♂34	3°18	3°18	28°34	9°53	29° 5	4°13	7°29	7°45	26° 6	25°16	6° 5	18°19		
M 7	5 1 55	14°37'39	22°21	4°35	4°33	29°12	9°59	29° 9	4°16	7°27	7°44	26° 4	25°12	6°11	18°18		
T 8	5 5 51	15°38'37	6♂17	5°49	5°48	29°50	10° 6	29°12	4°20	7°26	7°43	26° 3	25° 9	6°18	18°18		
W 9	5 9 48	16°39'36	20°22	7° 1	7° 3	0♍28	10°13	29°15	4°23	7°24	7°42	26°D 3	25° 6	6°25	18°17		
T 10	5 13 44	17°40'35	4♂34	8°10	8°18	1° 6	10°19	29°19	4°26	7°22	7°41	26° 4	25° 3	6°31	18°16		
F 11	5 17 41	18°41'34	18°51	9°16	9°32	1°44	10°26	29°22	4°29	7°21	7°40	26° 5	25° 0	6°38	18°15		
S 12	5 21 37	19°42'34	3♂11	10°17	10°47	2°22	10°34	29°25	4°31	7°19	7°38	26° 7	24°57	6°45	18°14		
S 13	5 25 34	20°43'35	17°31	11°14	12° 2	3° 0	10°41	29°28	4°34	7°17	7°37	26° 8	24°53	6°51	18°13		
M14	5 29 30	21°44'36	1♍45	12° 5	13°17	3°38	10°49	29°31	4°37	7°16	7°36	26°R 8	24°50	6°58	18°12		
T 15	5 33 27	22°45'38	15°50	12°50	14°32	4°16	10°56	29°34	4°40	7°14	7°35	26° 7	24°47	7° 5	18°10		
W16	5 37 24	23°46'41	29°42	13°28	15°47	4°54	11° 4	29°36	4°43	7°12	7°34	26° 4	24°44	7°11	18° 9		
T 17	5 41 20	24°47'44	13♂17	13°58	17° 2	5°32	11°12	29°39	4°46	7°11	7°33	26° 0	24°41	7°18	18° 7		
F 18	5 45 17	25°48'48	26°32	14°20	18°17	6°10	11°20	29°41	4°48	7° 9	7°32	25°55	24°38	7°25	18° 5		
S 19	5 49 13	26°49'53	9♂27	14°31	19°31	6°48	11°28	29°44	4°51	7° 8	7°31	25°50	24°34	7°32	18° 4		
S 20	5 53 10	27°50'58	22° 3	14°R33	20°46	7°26	11°37	29°46	4°54	7° 6	7°30	25°45	24°31	7°38	18° 2		
M21	5 57 6	28°52'04	4♍22	14°23	22° 1	8° 4	11°45	29°48	4°56	7° 5	7°29	25°41	24°28	7°45	18° 0		
T 22	6 1 3	29°53'11	16°26	14° 1	23°16	8°42	11°54	29°50	4°59	7° 3	7°28	25°38	24°25	7°52	17°58		
W23	6 5 0	0♂54'18	28°21	13°28	24°31	9°20	12° 3	29°52	5° 1	7° 1	7°27	25°D37	24°22	7°58	17°55		
T 24	6 8 56	1°55'26	10♂12	12°43	25°46	9°58	12°12	29°54	5° 4	7° 0	7°26	25°37	24°18	8° 5	17°53		
F 25	6 12 53	2°56'35	22° 2	11°48	27° 0	10°35	12°21	29°56	5° 6	6°58	7°25	25°39	24°15	8°12	17°51		
S 26	6 16 49	3°57'44	3♍59	10°42	28°15	11°13	12°30	29°57	5° 9	6°57	7°23	25°40	24°12	8°18	17°48		
S 27	6 20 46	4°58'54	16° 5	9°30	29°30	11°51	12°39	29°59	5°11	6°56	7°22	25°42	24° 9	8°25	17°46		
M28	6 24 42	6° 0'04	28°26	8°11	0♂45	12°29	12°49	0♂ 0	5°13	6°54	7°22	25°R42	24° 6	8°32	17°43		
T 29	6 28 39	7° 1'15	11♂5	6°50	1°59	13° 7	12°59	0° 2	5°16	6°53	7°21	25°41	24° 3	8°38	17°40		
W30	6 32 35	8° 2'26	24° 3	5°28	3°14	13°45	13° 8	0° 3	5°18	6°51	7°20	25°38	23°59	8°45	17°37		
T 31	6 36 32	9♂3'37	7♂20	4♂9	4♂29	14♍23	13♂18	0♂ 4	5♍20	6♍50	7♍19	25♂32	23♂56	8♂52	17♂34		

Delta T = -6.26 sec.

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