

SWISS EPHEMERIS for the year 1816
heliocentric

JANUARY 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
M 1	6 38 8	9 ⁵³ 31'39	9 ⁵² 29	19 ²⁷ 23	27 ⁰ 138	5 ¹¹ 39	26 ² 29	13 ³ 40	7 ² 33	19 ² 46	22 ¹ 16	12 ¹ 49
T 2	6 42 5	10 ⁰ 32'51	10 ⁰ 29	22 ⁰ 8	29 ⁰ 16	6 ⁰ 11	26 ⁰ 33	13 ⁰ 42	7 ⁰ 34	19 ⁰ 46	22 ⁰ 16	12 ⁰ 49
W 3	6 46 1	11 ⁰ 34'02	11 ⁰ 28	24 ⁰ 54	0 ¹⁰ 53	6 ⁰ 42	26 ⁰ 38	13 ⁰ 44	7 ⁰ 35	19 ⁰ 47	22 ⁰ 17	12 ⁰ 50
T 4	6 49 58	12 ⁰ 35'13	12 ⁰ 28	27 ⁰ 41	2 ⁰ 31	7 ⁰ 14	26 ⁰ 42	13 ⁰ 46	7 ⁰ 35	19 ⁰ 47	22 ⁰ 17	12 ⁰ 51
F 5	6 53 54	13 ⁰ 36'23	13 ⁰ 28	0 ²³ 29	4 ⁰ 8	7 ⁰ 45	26 ⁰ 47	13 ⁰ 47	7 ⁰ 36	19 ⁰ 47	22 ⁰ 17	12 ⁰ 51
S 6	6 57 51	14 ⁰ 37'33	14 ⁰ 29	3 ⁰ 19	5 ⁰ 46	8 ⁰ 16	26 ⁰ 51	13 ⁰ 49	7 ⁰ 37	19 ⁰ 48	22 ⁰ 17	12 ⁰ 52
S 7	7 1 47	15 ⁰ 38'43	15 ⁰ 29	6 ⁰ 10	7 ⁰ 23	8 ⁰ 48	26 ⁰ 56	13 ⁰ 51	7 ⁰ 38	19 ⁰ 48	22 ⁰ 17	12 ⁰ 53
M 8	7 5 44	16 ⁰ 39'52	16 ⁰ 31	9 ⁰ 2	9 ⁰ 1	9 ⁰ 19	27 ⁰ 1	13 ⁰ 53	7 ⁰ 38	19 ⁰ 49	22 ⁰ 18	12 ⁰ 53
T 9	7 9 41	17 ⁰ 41'01	17 ⁰ 32	11 ⁰ 57	10 ⁰ 38	9 ⁰ 50	27 ⁰ 5	13 ⁰ 55	7 ⁰ 39	19 ⁰ 49	22 ⁰ 18	12 ⁰ 54
W10	7 13 37	18 ⁰ 42'09	18 ⁰ 34	14 ⁰ 54	12 ⁰ 16	10 ⁰ 21	27 ⁰ 10	13 ⁰ 57	7 ⁰ 40	19 ⁰ 49	22 ⁰ 18	12 ⁰ 54
T 11	7 17 34	19 ⁰ 43'17	19 ⁰ 36	17 ⁰ 53	13 ⁰ 53	10 ⁰ 52	27 ⁰ 14	13 ⁰ 59	7 ⁰ 41	19 ⁰ 50	22 ⁰ 18	12 ⁰ 55
F 12	7 21 30	20 ⁰ 44'24	20 ⁰ 39	20 ⁰ 55	15 ⁰ 30	11 ⁰ 23	27 ⁰ 19	14 ⁰ 0	7 ⁰ 41	19 ⁰ 50	22 ⁰ 18	12 ⁰ 56
S 13	7 25 27	21 ⁰ 45'30	21 ⁰ 41	24 ⁰ 0	17 ⁰ 8	11 ⁰ 54	27 ⁰ 23	14 ⁰ 2	7 ⁰ 42	19 ⁰ 50	22 ⁰ 18	12 ⁰ 56
S 14	7 29 23	22 ⁰ 46'36	22 ⁰ 44	27 ⁰ 8	18 ⁰ 45	12 ⁰ 25	27 ⁰ 28	14 ⁰ 4	7 ⁰ 43	19 ⁰ 51	22 ⁰ 19	12 ⁰ 57
M15	7 33 20	23 ⁰ 47'42	23 ⁰ 48	0 ²⁰ 20	20 ⁰ 22	12 ⁰ 56	27 ⁰ 32	14 ⁰ 6	7 ⁰ 43	19 ⁰ 51	22 ⁰ 19	12 ⁰ 58
T 16	7 37 16	24 ⁰ 48'46	24 ⁰ 51	3 ⁰ 35	22 ⁰ 0	13 ⁰ 27	27 ⁰ 37	14 ⁰ 8	7 ⁰ 44	19 ⁰ 51	22 ⁰ 19	12 ⁰ 58
W17	7 41 13	25 ⁰ 49'51	25 ⁰ 54	6 ⁰ 55	23 ⁰ 37	13 ⁰ 57	27 ⁰ 41	14 ⁰ 10	7 ⁰ 45	19 ⁰ 52	22 ⁰ 19	12 ⁰ 59
T 18	7 45 10	26 ⁰ 50'54	26 ⁰ 56	10 ⁰ 19	25 ⁰ 14	14 ⁰ 28	27 ⁰ 46	14 ⁰ 12	7 ⁰ 46	19 ⁰ 52	22 ⁰ 19	13 ⁰ 0
F 19	7 49 6	27 ⁰ 51'58	27 ⁰ 59	13 ⁰ 48	26 ⁰ 51	14 ⁰ 59	27 ⁰ 51	14 ⁰ 13	7 ⁰ 46	19 ⁰ 52	22 ⁰ 20	13 ⁰ 0
S 20	7 53 3	28 ⁰ 53'00	29 ⁰ 1	17 ⁰ 22	28 ⁰ 28	15 ⁰ 29	27 ⁰ 55	14 ⁰ 15	7 ⁰ 47	19 ⁰ 53	22 ⁰ 20	13 ⁰ 1
S 21	7 56 59	29 ⁰ 54'03	0 ⁰ 3	21 ⁰ 1	0 ⁰ 6	16 ⁰ 0	28 ⁰ 0	14 ⁰ 17	7 ⁰ 48	19 ⁰ 53	22 ⁰ 20	13 ⁰ 2
M22	8 0 56	0 ⁰ 55'05	1 ⁰ 4	24 ⁰ 46	1 ⁰ 43	16 ⁰ 30	28 ⁰ 4	14 ⁰ 19	7 ⁰ 48	19 ⁰ 54	22 ⁰ 20	13 ⁰ 2
T 23	8 4 52	1 ⁰ 56'07	2 ⁰ 5	28 ⁰ 38	3 ⁰ 20	17 ⁰ 1	28 ⁰ 9	14 ⁰ 21	7 ⁰ 49	19 ⁰ 54	22 ⁰ 20	13 ⁰ 3
W24	8 8 49	2 ⁰ 57'08	3 ⁰ 5	2 ¹ 36	4 ⁰ 57	17 ⁰ 31	28 ⁰ 13	14 ⁰ 23	7 ⁰ 50	19 ⁰ 54	22 ⁰ 21	13 ⁰ 4
T 25	8 12 45	3 ⁰ 58'08	4 ⁰ 5	6 ⁰ 41	6 ⁰ 34	18 ⁰ 1	28 ⁰ 18	14 ⁰ 25	7 ⁰ 51	19 ⁰ 55	22 ⁰ 21	13 ⁰ 4
F 26	8 16 42	4 ⁰ 59'08	5 ⁰ 5	10 ⁰ 53	8 ⁰ 11	18 ⁰ 32	28 ⁰ 22	14 ⁰ 26	7 ⁰ 51	19 ⁰ 55	22 ⁰ 21	13 ⁰ 5
S 27	8 20 39	6 ⁰ 0'07	6 ⁰ 4	15 ⁰ 13	9 ⁰ 48	19 ⁰ 2	28 ⁰ 27	14 ⁰ 28	7 ⁰ 52	19 ⁰ 55	22 ⁰ 21	13 ⁰ 6
S 28	8 24 35	7 ⁰ 1'06	7 ⁰ 4	19 ⁰ 41	11 ⁰ 25	19 ⁰ 32	28 ⁰ 32	14 ⁰ 30	7 ⁰ 53	19 ⁰ 56	22 ⁰ 21	13 ⁰ 6
M29	8 28 32	8 ⁰ 2'03	8 ⁰ 3	24 ⁰ 17	13 ⁰ 1	20 ⁰ 2	28 ⁰ 36	14 ⁰ 32	7 ⁰ 54	19 ⁰ 56	22 ⁰ 22	13 ⁰ 7
T 30	8 32 28	9 ⁰ 3'00	9 ⁰ 2	29 ⁰ 2	14 ⁰ 38	20 ⁰ 32	28 ⁰ 41	14 ⁰ 34	7 ⁰ 54	19 ⁰ 56	22 ⁰ 22	13 ⁰ 7
W31	8 36 25	10 ⁰ 3'55	10 ⁰ 1	3 ⁰ 56	16 ⁰ 15	21 ⁰ 11	28 ⁰ 45	14 ⁰ 36	7 ⁰ 55	19 ⁰ 57	22 ⁰ 22	13 ⁰ 8

Delta T = 12.15 sec.

FEBRUARY 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
T 1	8 40 21	11 ⁰ 4'49	11 ⁰ 0	8 ⁰ 58	17 ⁰ 52	21 ⁰ 11	28 ⁰ 50	14 ⁰ 38	7 ⁰ 56	19 ⁰ 57	22 ⁰ 22	13 ⁰ 9
F 2	8 44 18	12 ⁰ 5'42	12 ⁰ 0	14 ⁰ 10	19 ⁰ 28	22 ⁰ 2	28 ⁰ 54	14 ⁰ 39	7 ⁰ 56	19 ⁰ 57	22 ⁰ 22	13 ⁰ 9
S 3	8 48 15	13 ⁰ 6'33	12 ⁰ 59	19 ⁰ 31	21 ⁰ 5	22 ⁰ 32	28 ⁰ 59	14 ⁰ 41	7 ⁰ 57	19 ⁰ 58	22 ⁰ 23	13 ⁰ 10
S 4	8 52 11	14 ⁰ 7'23	13 ⁰ 59	25 ⁰ 1	22 ⁰ 41	23 ⁰ 2	29 ⁰ 3	14 ⁰ 43	7 ⁰ 58	19 ⁰ 58	22 ⁰ 23	13 ⁰ 11
M 5	8 56 8	15 ⁰ 8'12	14 ⁰ 59	0 ⁰ 40	24 ⁰ 18	23 ⁰ 32	29 ⁰ 8	14 ⁰ 45	7 ⁰ 59	19 ⁰ 59	22 ⁰ 23	13 ⁰ 11
T 6	9 0 4	16 ⁰ 8'59	16 ⁰ 0	6 ⁰ 27	25 ⁰ 54	24 ⁰ 1	29 ⁰ 12	14 ⁰ 47	7 ⁰ 59	19 ⁰ 59	22 ⁰ 23	13 ⁰ 12
W 7	9 4 1	17 ⁰ 9'45	17 ⁰ 1	12 ⁰ 22	27 ⁰ 31	24 ⁰ 31	29 ⁰ 17	14 ⁰ 49	8 ⁰ 0	19 ⁰ 59	22 ⁰ 23	13 ⁰ 13
T 8	9 7 57	18 ⁰ 10'29	18 ⁰ 2	18 ⁰ 24	29 ⁰ 7	25 ⁰ 1	29 ⁰ 22	14 ⁰ 51	8 ⁰ 1	20 ⁰ 0	22 ⁰ 23	13 ⁰ 13
F 9	9 11 54	19 ⁰ 11'12	19 ⁰ 3	24 ⁰ 31	0 ⁰ 44	25 ⁰ 30	29 ⁰ 26	14 ⁰ 53	8 ⁰ 1	20 ⁰ 0	22 ⁰ 24	13 ⁰ 14
S 10	9 15 50	20 ⁰ 11'53	20 ⁰ 5	0 ⁰ 44	2 ⁰ 20	26 ⁰ 0	29 ⁰ 31	14 ⁰ 54	8 ⁰ 2	20 ⁰ 0	22 ⁰ 24	13 ⁰ 15
S 11	9 19 47	21 ⁰ 12'32	21 ⁰ 8	7 ⁰ 0	3 ⁰ 56	26 ⁰ 30	29 ⁰ 35	14 ⁰ 56	8 ⁰ 3	20 ⁰ 1	22 ⁰ 24	13 ⁰ 15
M12	9 23 44	22 ⁰ 13'10	22 ⁰ 10	13 ⁰ 19	5 ⁰ 32	26 ⁰ 59	29 ⁰ 40	14 ⁰ 58	8 ⁰ 4	20 ⁰ 1	22 ⁰ 24	13 ⁰ 16
T 13	9 27 40	23 ⁰ 13'46	23 ⁰ 13	19 ⁰ 38	7 ⁰ 9	27 ⁰ 28	29 ⁰ 44	15 ⁰ 0	8 ⁰ 4	20 ⁰ 1	22 ⁰ 24	13 ⁰ 17
W14	9 31 37	24 ⁰ 14'21	24 ⁰ 15	25 ⁰ 56	8 ⁰ 45	27 ⁰ 58	29 ⁰ 49	15 ⁰ 2	8 ⁰ 5	20 ⁰ 2	22 ⁰ 25	13 ⁰ 17
T 15	9 35 33	25 ⁰ 14'54	25 ⁰ 18	2 ⁰ 13	10 ⁰ 21	28 ⁰ 27	29 ⁰ 53	15 ⁰ 4	8 ⁰ 6	20 ⁰ 2	22 ⁰ 25	13 ⁰ 18
F 16	9 39 30	26 ⁰ 15'26	26 ⁰ 20	8 ⁰ 25	11 ⁰ 57	28 ⁰ 56	29 ⁰ 58	15 ⁰ 6	8 ⁰ 6	20 ⁰ 2	22 ⁰ 25	13 ⁰ 18
S 17	9 43 26	27 ⁰ 15'56	27 ⁰ 22	14 ⁰ 33	13 ⁰ 33	29 ⁰ 26	0 ⁰ 3	15 ⁰ 7	8 ⁰ 7	20 ⁰ 3	22 ⁰ 25	13 ⁰ 19
S 18	9 47 23	28 ⁰ 16'25	28 ⁰ 24	20 ⁰ 34	15 ⁰ 9	29 ⁰ 55	0 ⁰ 7	15 ⁰ 9	8 ⁰ 8	20 ⁰ 3	22 ⁰ 25	13 ⁰ 20
M19	9 51 19	29 ⁰ 16'53	29 ⁰ 25	26 ⁰ 28	16 ⁰ 45	0 ⁰ 24	0 ⁰ 12	15 ⁰ 11	8 ⁰ 9	20 ⁰ 4	22 ⁰ 26	13 ⁰ 20
T 20	9 55 16	0 ⁰ 17'19	0 ⁰ 26	2 ⁰ 14	18 ⁰ 20	0 ⁰ 53	0 ⁰ 16	15 ⁰ 13	8 ⁰ 9	20 ⁰ 4	22 ⁰ 26	13 ⁰ 21
W21	9 59 12	1 ⁰ 17'45	1 ⁰ 27	7 ⁰ 51	19 ⁰ 56	1 ⁰ 22	0 ⁰ 21	15 ⁰ 15	8 ⁰ 10	20 ⁰ 4	22 ⁰ 26	13 ⁰ 22
T 22	10 3 9	2 ⁰ 18'08	2 ⁰ 27	13 ⁰ 19	21 ⁰ 32	1 ⁰ 51	0 ⁰ 25	15 ⁰ 17	8 ⁰ 11	20 ⁰ 5	22 ⁰ 26	13 ⁰ 22
F 23	10 7 6	3 ⁰ 18'31	3 ⁰ 26	18 ⁰ 38	23 ⁰ 8	2 ⁰ 20	0 ⁰ 30	15 ⁰ 19	8 ⁰ 12	20 ⁰ 5	22 ⁰ 26	13 ⁰ 23
S 24	10 11 2	4 ⁰ 18'52	4 ⁰ 25	23 ⁰ 46	24 ⁰ 43	2 ⁰ 49	0 ⁰ 34	15 ⁰ 20	8 ⁰ 12	20 ⁰ 5	22 ⁰ 26	13 ⁰ 24
S 25	10 14 59	5 ⁰ 19'11	5 ⁰ 24	28 ⁰ 46	26 ⁰ 19	3 ⁰ 18	0 ⁰ 39	15 ⁰ 22	8 ⁰ 13	20 ⁰ 6	22 ⁰ 27	13 ⁰ 24
M26	10 18 55	6 ⁰ 19'29	6 ⁰ 23	3 ⁰ 35	27 ⁰ 55	3 ⁰ 47	0 ⁰ 43	15 ⁰ 24	8 ⁰ 14	20 ⁰ 6	22 ⁰ 27	13 ⁰ 25
T 27	10 22 52	7 ⁰ 19'45	7 ⁰ 22	8 ⁰ 15	29 ⁰ 30	4 ⁰ 16	0 ⁰ 48	15 ⁰ 26	8 ⁰ 14	20 ⁰ 6	22 ⁰ 27	13 ⁰ 26
W28	10 26 48	8 ⁰ 20'00	8 ⁰ 20	12 ⁰ 47	1 ⁰ 7	4 ⁰ 45	0 ⁰ 53	15 ⁰ 28	8 ⁰ 15	20 ⁰ 7	22 ⁰ 27	13 ⁰ 26
T 29	10 30 45	9 ⁰ 20'12	9 ⁰ 19	17 ⁰ 9	2 ⁰ 41	5						

SWISS EPHEMERIS for the year 1816
heliocentric

MARCH 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
F 1	10 34 41	10 ^h 20'23	10 ^h 17	21 ^m 24	4 ^s 17	5 ^s 42	1 ^m 2	15 ^s 32	8 ^s 17	20 ^s 7	22 ^m 28	13 ^m 28
S 2	10 38 38	11°20'32	11°16	25°30	5°52	6°11	1° 6	15°33	8°17	20° 8	22°28	13°28
S 3	10 42 35	12°20'38	12°14	29°29	7°27	6°40	1°11	15°35	8°18	20° 8	22°28	13°29
M 4	10 46 31	13°20'43	13°13	3 ^h 21	9° 3	7° 8	1°15	15°37	8°19	20° 9	22°28	13°29
T 5	10 50 28	14°20'46	14°13	7° 7	10°38	7°37	1°20	15°39	8°19	20° 9	22°28	13°30
W 6	10 54 24	15°20'47	15°12	10°46	12°13	8° 5	1°24	15°41	8°20	20° 9	22°29	13°31
T 7	10 58 21	16°20'45	16°12	14°20	13°48	8°34	1°29	15°43	8°21	20°10	22°29	13°31
F 8	11 2 17	17°20'41	17°12	17°48	15°24	9° 2	1°34	15°45	8°22	20°10	22°29	13°32
S 9	11 6 14	18°20'35	18°13	21°11	16°59	9°31	1°38	15°47	8°22	20°10	22°29	13°33
S 10	11 10 10	19°20'27	19°14	24°30	18°34	9°59	1°43	15°48	8°23	20°11	22°29	13°33
M 11	11 14 7	20°20'17	20°15	27°44	20° 9	10°27	1°47	15°50	8°24	20°11	22°30	13°34
T 12	11 18 4	21°20'04	21°16	0 ^h 55	21°44	10°56	1°52	15°52	8°24	20°11	22°30	13°35
W 13	11 22 0	22°19'49	22°18	4° 2	23°19	11°24	1°56	15°54	8°25	20°12	22°30	13°35
T 14	11 25 57	23°19'33	23°20	7° 6	24°54	11°52	2° 1	15°56	8°26	20°12	22°30	13°36
F 15	11 29 53	24°19'14	24°21	10° 7	26°29	12°21	2° 5	15°58	8°27	20°12	22°30	13°37
S 16	11 33 50	25°18'53	25°23	13° 5	28° 4	12°49	2°10	16° 0	8°27	20°13	22°30	13°37
S 17	11 37 46	26°18'30	26°24	16° 0	29°39	13°17	2°15	16° 1	8°28	20°13	22°31	13°38
M 18	11 41 43	27°18'06	27°25	18°54	1 ^h 14	13°45	2°19	16° 3	8°29	20°14	22°31	13°39
T 19	11 45 39	28°17'40	28°26	21°46	2°49	14°13	2°24	16° 5	8°30	20°14	22°31	13°39
W 20	11 49 36	29°17'12	29°26	24°36	4°24	14°41	2°28	16° 7	8°30	20°14	22°31	13°40
T 21	11 53 33	0 ^h 16'42	0 ^h 26	27°24	5°59	15° 9	2°33	16° 9	8°31	20°15	22°31	13°40
F 22	11 57 29	1°16'11	1°25	0 ^h 12	7°34	15°37	2°37	16°11	8°32	20°15	22°32	13°41
S 23	12 1 26	2°15'38	2°24	2°58	9° 9	16° 5	2°42	16°13	8°32	20°15	22°32	13°42
S 24	12 5 22	3°15'03	3°22	5°44	10°44	16°33	2°46	16°15	8°33	20°16	22°32	13°42
M 25	12 9 19	4°14'26	4°21	8°29	12°19	17° 1	2°51	16°16	8°34	20°16	22°32	13°43
T 26	12 13 15	5°13'47	5°19	11°14	13°54	17°29	2°56	16°18	8°35	20°16	22°32	13°44
W 27	12 17 12	6°13'07	6°16	13°58	15°28	17°56	3° 0	16°20	8°35	20°17	22°33	13°44
T 28	12 21 8	7°12'24	7°14	16°43	17° 3	18°24	3° 5	16°22	8°36	20°17	22°33	13°45
F 29	12 25 5	8°11'39	8°11	19°28	18°38	18°52	3° 9	16°24	8°37	20°17	22°33	13°46
S 30	12 29 2	9°10'53	9° 9	22°13	20°13	19°20	3°14	16°26	8°37	20°18	22°33	13°46
S 31	12 32 58	10 ^h 10'04	10 ^h 6	25 ^m 0	21 ^m 48	19 ^s 47	3 ^m 18	16 ^s 28	8 ^s 38	20 ^s 18	22 ^m 33	13 ^m 47

Delta T = 12.14 sec.

APRIL 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
M 1	12 36 55	11 ^h 9'13	11 ^h 4	27 ^m 47	23 ^m 23	20 ^s 15	3 ^m 23	16 ^s 29	8 ^s 39	20 ^s 18	22 ^m 33	13 ^m 48
T 2	12 40 51	12° 8'20	12° 2	0 ^h 35	24°57	20°42	3°28	16°31	8°40	20°19	22°34	13°48
W 3	12 44 48	13° 7'24	13° 0	3°24	26°32	21°10	3°32	16°33	8°40	20°19	22°34	13°49
T 4	12 48 44	14° 6'27	13°58	6°15	28° 7	21°38	3°37	16°35	8°41	20°20	22°34	13°49
F 5	12 52 41	15° 5'27	14°57	9° 8	29°42	22° 5	3°41	16°37	8°42	20°20	22°34	13°50
S 6	12 56 37	16° 4'25	15°56	12° 2	1 ^h 17	22°33	3°46	16°39	8°42	20°20	22°34	13°51
S 7	13 0 34	17° 3'20	16°55	14°59	2°52	23° 0	3°50	16°41	8°43	20°21	22°35	13°51
M 8	13 4 31	18° 2'13	17°55	17°59	4°27	23°28	3°55	16°42	8°44	20°21	22°35	13°52
T 9	13 8 27	19° 1'04	18°55	21° 1	6° 1	23°55	3°59	16°44	8°45	20°21	22°35	13°53
W 10	13 12 24	19°59'53	19°55	24° 6	7°36	24°22	4° 4	16°46	8°45	20°22	22°35	13°53
T 11	13 16 20	20°58'39	20°56	27°14	9°11	24°50	4° 9	16°48	8°46	20°22	22°35	13°54
F 12	13 20 17	21°57'23	21°57	0 ^h 26	10°46	25°17	4°13	16°50	8°47	20°22	22°36	13°55
S 13	13 24 13	22°56'05	22°58	3°41	12°21	25°44	4°18	16°52	8°47	20°23	22°36	13°55
S 14	13 28 10	23°54'46	23°58	7° 1	13°56	26°12	4°22	16°54	8°48	20°23	22°36	13°56
M 15	13 32 6	24°53'24	24°58	10°25	15°31	26°39	4°27	16°56	8°49	20°23	22°36	13°57
T 16	13 36 3	25°52'01	25°59	13°54	17° 6	27° 6	4°31	16°57	8°50	20°24	22°36	13°57
W 17	13 39 59	26°50'36	26°58	17°29	18°41	27°33	4°36	16°59	8°50	20°24	22°37	13°58
T 18	13 43 56	27°49'10	27°58	21° 8	20°16	28° 1	4°41	17° 1	8°51	20°25	22°37	13°59
F 19	13 47 53	28°47'42	28°57	24°54	21°51	28°28	4°45	17° 3	8°52	20°25	22°37	13°59
S 20	13 51 49	29°46'12	29°55	28°45	23°26	28°55	4°50	17° 5	8°53	20°25	22°37	14° 0
S 21	13 55 46	0 ^h 44'40	0 ^h 53	2 ^h 43	25° 1	29°22	4°54	17° 7	8°53	20°26	22°37	14° 0
M 22	13 59 42	1°43'07	1°51	6°49	26°36	29°49	4°59	17° 9	8°54	20°26	22°37	14° 1
T 23	14 3 39	2°41'32	2°49	11° 1	28°11	0 ^h 216	5° 3	17°10	8°55	20°26	22°38	14° 2
W 24	14 7 35	3°39'56	3°46	15°21	29°46	0°43	5° 8	17°12	8°55	20°27	22°38	14° 2
T 25	14 11 32	4°38'17	4°43	19°49	1 ^h 21	1°10	5°12	17°14	8°56	20°27	22°38	14° 3
F 26	14 15 28	5°36'37	5°39	24°26	2°56	1°37	5°17	17°16	8°57	20°27	22°38	14° 4
S 27	14 19 25	6°34'56	6°36	29°11	4°31	2° 4	5°22	17°18	8°58	20°28	22°38	14° 4
S 28	14 23 22	7°33'12	7°32	4 ^h 5	6° 6	2°31	5°26	17°20	8°58	20°28	22°39	14° 5
M 29	14 27 18	8°31'27	8°29	9° 8	7°41	2°58	5°31	17°22	8°59	20°28	22°39	14° 6
T 30	14 31 15	9 ^h 29'40	9 ^h 25	14 ^m 20	9 ^m 16	3 ^s 25	5 ^m 35	17 ^s 24	9 ^s 0	20 ^s 29	22 ^m 39	14 ^m 6

Delta T = 12.13 sec.

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SWISS EPHEMERIS for the year 1816
heliocentric

MAY 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
W 1	14 35 11	10M27'52	10M22	19Y42	10X51	3Ω52	5M40	17≈25	9♂ 0	20♂29	22X39	14X 7
T 2	14 39 8	11°26'01	11°19	25°12	12°27	4°19	5°44	17°27	9° 1	20°30	22°39	14° 8
F 3	14 43 4	12°24'08	12°16	0B51	14° 2	4°46	5°49	17°29	9° 2	20°30	22°40	14° 8
S 4	14 47 1	13°22'14	13°14	6°38	15°37	5°12	5°54	17°31	9° 3	20°30	22°40	14° 9
S 5	14 50 57	14°20'17	14°12	12°33	17°12	5°39	5°58	17°33	9° 3	20°31	22°40	14° 9
M 6	14 54 54	15°18'19	15°10	18°35	18°48	6° 6	6° 3	17°35	9° 4	20°31	22°40	14°10
T 7	14 58 51	16°16'18	16° 9	24°43	20°23	6°33	6° 7	17°37	9° 5	20°31	22°40	14°11
W 8	15 2 47	17°14'16	17° 8	0II56	21°58	6°59	6°12	17°39	9° 5	20°32	22°41	14°11
T 9	15 6 44	18°12'12	18° 7	7°12	23°34	7°26	6°16	17°40	9° 6	20°32	22°41	14°12
F 10	15 10 40	19°10'06	19° 7	13°30	25° 9	7°53	6°21	17°42	9° 7	20°32	22°41	14°13
S 11	15 14 37	20° 7'58	20° 7	19°50	26°44	8°20	6°26	17°44	9° 8	20°33	22°41	14°13
S 12	15 18 33	21° 5'49	21° 6	26° 8	28°20	8°46	6°30	17°46	9° 8	20°33	22°41	14°14
M13	15 22 30	22° 3'39	22° 6	2B24	29°55	9°13	6°35	17°48	9° 9	20°33	22°41	14°15
T 14	15 26 26	23° 1'27	23° 6	8°37	1Y31	9°40	6°39	17°50	9°10	20°34	22°42	14°15
W15	15 30 23	23°59'14	24° 5	14°44	3° 6	10° 6	6°44	17°52	9°11	20°34	22°42	14°16
T 16	15 34 20	24°56'59	25° 4	20°45	4°42	10°33	6°48	17°53	9°11	20°35	22°42	14°17
F 17	15 38 16	25°54'44	26° 3	26°39	6°17	10°59	6°53	17°55	9°12	20°35	22°42	14°17
S 18	15 42 13	26°52'27	27° 1	2Ω25	7°53	11°26	6°58	17°57	9°13	20°35	22°42	14°18
S 19	15 46 9	27°50'09	27°59	8° 2	9°29	11°53	7° 2	17°59	9°13	20°36	22°43	14°18
M20	15 50 6	28°47'50	28°57	13°29	11° 4	12°19	7° 7	18° 1	9°14	20°36	22°43	14°19
T 21	15 54 2	29°45'30	29°54	18°47	12°40	12°46	7°11	18° 3	9°15	20°36	22°43	14°20
W22	15 57 59	0♂43'09	0♂51	23°56	14°15	13°12	7°16	18° 5	9°16	20°37	22°43	14°20
T 23	16 1 55	1°40'47	1°47	28°55	15°51	13°39	7°20	18° 7	9°16	20°37	22°43	14°21
F 24	16 5 52	2°38'24	2°44	3M44	17°27	14° 5	7°25	18° 8	9°17	20°37	22°44	14°22
S 25	16 9 49	3°36'00	3°40	8°24	19° 3	14°32	7°30	18°10	9°18	20°38	22°44	14°22
S 26	16 13 45	4°33'35	4°36	12°55	20°38	14°58	7°34	18°12	9°18	20°38	22°44	14°23
M27	16 17 42	5°31'08	5°31	17°17	22°14	15°25	7°39	18°14	9°19	20°38	22°44	14°24
T 28	16 21 38	6°28'41	6°27	21°32	23°50	15°51	7°43	18°16	9°20	20°39	22°44	14°24
W29	16 25 35	7°26'13	7°23	25°38	25°26	16°18	7°48	18°18	9°21	20°39	22°44	14°25
T 30	16 29 31	8°23'44	8°19	29°37	27° 2	16°44	7°52	18°20	9°21	20°40	22°45	14°26
F 31	16 33 28	9♂21'13	9♂15	3♂29	28Y38	17Ω10	7M57	18≈22	9♂22	20♂40	22X45	14X26

Delta T = 12.12 sec.

JUNE 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
S 1	16 37 24	10♂18'41	10♂11	7♂14	0B13	17Ω37	8M 2	18≈23	9♂23	20♂40	22X45	14X27
S 2	16 41 21	11°16'08	11° 8	10°53	1°49	18° 3	8° 6	18°25	9°23	20°41	22°45	14°27
M 3	16 45 18	12°13'33	12° 5	14°26	3°25	18°30	8°11	18°27	9°24	20°41	22°45	14°28
T 4	16 49 14	13°10'58	13° 3	17°54	5° 1	18°56	8°15	18°29	9°25	20°41	22°46	14°29
W 5	16 53 11	14° 8'21	14° 1	21°18	6°37	19°22	8°20	18°31	9°26	20°42	22°46	14°29
T 6	16 57 7	15° 5'42	14°59	24°36	8°14	19°49	8°24	18°33	9°26	20°42	22°46	14°30
F 7	17 1 4	16° 3'03	15°58	27°50	9°50	20°15	8°29	18°35	9°27	20°42	22°46	14°31
S 8	17 5 0	17° 0'23	16°57	1M 1	11°26	20°41	8°34	18°37	9°28	20°43	22°46	14°31
S 9	17 8 57	17°57'42	17°56	4° 8	13° 2	21° 8	8°38	18°38	9°28	20°43	22°47	14°32
M10	17 12 54	18°55'01	18°55	7°12	14°38	21°34	8°43	18°40	9°29	20°43	22°47	14°33
T 11	17 16 50	19°52'18	19°54	10°12	16°14	22° 0	8°47	18°42	9°30	20°44	22°47	14°33
W12	17 20 47	20°49'35	20°53	13°10	17°50	22°27	8°52	18°44	9°31	20°44	22°47	14°34
T 13	17 24 43	21°46'52	21°52	16° 6	19°27	22°53	8°57	18°46	9°31	20°45	22°47	14°35
F 14	17 28 40	22°44'08	22°51	19° 0	21° 3	23°19	9° 1	18°48	9°32	20°45	22°48	14°35
S 15	17 32 36	23°41'23	23°49	21°51	22°39	23°45	9° 6	18°50	9°33	20°45	22°48	14°36
S 16	17 36 33	24°38'39	24°47	24°41	24°16	24°12	9°10	18°51	9°34	20°46	22°48	14°36
M17	17 40 29	25°35'54	25°45	27°30	25°52	24°38	9°15	18°53	9°34	20°46	22°48	14°37
T 18	17 44 26	26°33'08	26°42	0♂17	27°28	25° 4	9°19	18°55	9°35	20°46	22°48	14°38
W19	17 48 23	27°30'23	27°39	3° 3	29° 5	25°30	9°24	18°57	9°36	20°47	22°48	14°38
T 20	17 52 19	28°27'37	28°36	5°49	0II41	25°57	9°29	18°59	9°36	20°47	22°49	14°39
F 21	17 56 16	29°24'51	29°32	8°34	2°18	26°23	9°33	19° 1	9°37	20°47	22°49	14°40
S 22	18 0 12	0B22'06	0B28	11°19	3°54	26°49	9°38	19° 3	9°38	20°48	22°49	14°40
S 23	18 4 9	1°19'20	1°24	14° 4	5°31	27°15	9°42	19° 5	9°39	20°48	22°49	14°41
M24	18 8 5	2°16'34	2°20	16°48	7° 7	27°42	9°47	19° 6	9°39	20°48	22°49	14°42
T 25	18 12 2	3°13'47	3°15	19°33	8°44	28° 8	9°52	19° 8	9°40	20°49	22°50	14°42
W26	18 15 58	4°11'01	4°10	22°19	10°21	28°34	9°56	19°10	9°41	20°49	22°50	14°43
T 27	18 19 55	5° 8'15	5° 6	25° 5	11°57	29° 0	10° 1	19°12	9°41	20°50	22°50	14°44
F 28	18 23 52	6° 5'28	6° 1	27°52	13°34	29°27	10° 5	19°14	9°42	20°50	22°50	14°44
S 29	18 27 48	7° 2'41	6°57	0B40	15°11	29°53	10°10	19°16	9°43	20°50	22°50	14°45
S 30	18 31 45	7♂59'53	7♂53	3♂30	16II48	0M19	10M14	19≈18	9♂44	20♂51	22X51	14X45

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SWISS EPHEMERIS for the year 1816
heliocentric

JULY 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
M 1	18 35 41	8 ³⁵ 7'05	8 ³⁸ 49	6 ³² 21	18 ¹¹ 24	0 ¹¹ 45	10 ¹¹ 19	19 ²² 20	9 ⁴⁷ 44	20 ⁵¹ 51	22 ⁵¹ 51	14 ⁴⁶ 46
T 2	18 39 38	9°54'17	9°46	9°13	20° 1	1°11	10°24	19°21	9°45	20°51	22°51	14°47
W 3	18 43 34	10°51'28	10°43	12° 8	21°38	1°38	10°28	19°23	9°46	20°52	22°51	14°47
T 4	18 47 31	11°48'39	11°41	15° 5	23°15	2° 4	10°33	19°25	9°46	20°52	22°51	14°48
F 5	18 51 27	12°45'50	12°39	18° 4	24°52	2°30	10°37	19°27	9°47	20°52	22°52	14°49
S 6	18 55 24	13°43'01	13°37	21° 7	26°29	2°56	10°42	19°29	9°48	20°53	22°52	14°49
S 7	18 59 21	14°40'12	14°36	24°12	28° 6	3°22	10°47	19°31	9°49	20°53	22°52	14°50
M 8	19 3 17	15°37'23	15°35	27°20	29°43	3°49	10°51	19°33	9°49	20°54	22°52	14°51
T 9	19 7 14	16°34'34	16°34	0 ³² 32	1 ²⁰ 20	4°15	10°56	19°35	9°50	20°54	22°52	14°51
W10	19 11 10	17°31'45	17°33	3°48	2°57	4°41	11° 0	19°36	9°51	20°54	22°52	14°52
T 11	19 15 7	18°28'57	18°32	7° 8	4°34	5° 7	11° 5	19°38	9°52	20°55	22°53	14°53
F 12	19 19 3	19°26'08	19°30	10°32	6°11	5°33	11° 9	19°40	9°52	20°55	22°53	14°53
S 13	19 23 0	20°23'21	20°29	14° 1	7°48	6° 0	11°14	19°42	9°53	20°55	22°53	14°54
S 14	19 26 56	21°20'33	21°28	17°35	9°25	6°26	11°19	19°44	9°54	20°56	22°53	14°54
M15	19 30 53	22°17'47	22°26	21°15	11° 2	6°52	11°23	19°46	9°54	20°56	22°53	14°55
T 16	19 34 50	23°15'00	23°24	25° 1	12°40	7°18	11°28	19°48	9°55	20°56	22°54	14°56
W17	19 38 46	24°12'15	24°21	28°53	14°17	7°45	11°32	19°50	9°56	20°57	22°54	14°56
T 18	19 42 43	25° 9'30	25°19	2 ⁵¹ 51	15°54	8°11	11°37	19°51	9°57	20°57	22°54	14°57
F 19	19 46 39	26° 6'47	26°15	6°56	17°31	8°37	11°42	19°53	9°57	20°57	22°54	14°58
S 20	19 50 36	27° 4'04	27°12	11° 9	19° 9	9° 3	11°46	19°55	9°58	20°58	22°54	14°58
S 21	19 54 32	28° 1'22	28° 8	15°29	20°46	9°29	11°51	19°57	9°59	20°58	22°55	14°59
M22	19 58 29	28°58'40	29° 4	19°58	22°23	9°56	11°55	19°59	9°59	20°59	22°55	15° 0
T 23	20 2 25	29°56'00	29°59	24°35	24° 1	10°22	12° 0	20° 1	10° 0	20°59	22°55	15° 0
W24	20 6 22	0 ⁵³ 20	0 ⁵⁵ 20	29°20	25°38	10°48	12° 5	20° 3	10° 1	20°59	22°55	15° 1
T 25	20 10 19	1°50'42	1°51	4 ¹⁴ 14	27°16	11°14	12° 9	20° 5	10° 2	21° 0	22°55	15° 2
F 26	20 14 15	2°48'04	2°46	9°18	28°53	11°41	12°14	20° 7	10° 2	21° 0	22°56	15° 2
S 27	20 18 12	3°45'26	3°42	14°30	0 ³⁰ 30	12° 7	12°18	20° 8	10° 3	21° 0	22°56	15° 3
S 28	20 22 8	4°42'49	4°37	19°52	2° 8	12°33	12°23	20°10	10° 4	21° 1	22°56	15° 3
M29	20 26 5	5°40'13	5°33	25°22	3°45	13° 0	12°28	20°12	10° 4	21° 1	22°56	15° 4
T 30	20 30 1	6°37'37	6°30	1 ⁸ 2	5°23	13°26	12°32	20°14	10° 5	21° 1	22°56	15° 5
W31	20 33 58	7 ³⁵ 02	7 ²⁷ 27	6 ⁴⁹ 49	7 ⁰ 0	13 ⁵² 52	12 ³⁷ 37	20 ¹⁶ 16	10 ⁶ 6	21 ² 2	22 ⁵⁶ 56	15 ⁵ 5

Delta T = 12.11 sec.

AUGUST 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	20 37 54	8 ³² 28	8 ²⁴ 24	12 ⁴⁴ 44	8 ³⁸ 38	14 ¹⁸ 18	12 ⁴¹ 41	20 ¹⁸ 18	10 ⁷ 7	21 ² 2	22 ⁵⁷ 57	15 ⁶ 6
F 2	20 41 51	9°29'54	9°22	18°46	10°15	14°45	12°46	20°20	10° 7	21° 2	22°57	15° 7
S 3	20 45 48	10°27'21	10°20	24°54	11°53	15°11	12°50	20°22	10° 8	21° 3	22°57	15° 7
S 4	20 49 44	11°24'49	11°18	1 ¹¹ 7	13°30	15°37	12°55	20°23	10° 9	21° 3	22°57	15° 8
M 5	20 53 41	12°22'17	12°17	7°24	15° 8	16° 4	13° 0	20°25	10° 9	21° 4	22°57	15° 9
T 6	20 57 37	13°19'47	13°16	13°42	16°45	16°30	13° 4	20°27	10°10	21° 4	22°58	15° 9
W 7	21 1 34	14°17'17	14°15	20° 1	18°23	16°57	13° 9	20°29	10°11	21° 4	22°58	15°10
T 8	21 5 30	15°14'48	15°15	26°20	20° 1	17°23	13°13	20°31	10°12	21° 5	22°58	15°10
F 9	21 9 27	16°12'21	16°14	2 ³⁶ 36	21°38	17°49	13°18	20°33	10°12	21° 5	22°58	15°11
S 10	21 13 24	17° 9'55	17°13	8°48	23°16	18°16	13°23	20°35	10°13	21° 5	22°58	15°12
S 11	21 17 20	18° 7'30	18°12	14°55	24°53	18°42	13°27	20°37	10°14	21° 6	22°59	15°12
M12	21 21 17	19° 5'06	19°11	20°56	26°31	19° 8	13°32	20°38	10°15	21° 6	22°59	15°13
T 13	21 25 13	20° 2'44	20°10	26°50	28° 8	19°35	13°36	20°40	10°15	21° 6	22°59	15°14
W14	21 29 10	21° 0'23	21° 9	2 ³⁵ 35	29°46	20° 1	13°41	20°42	10°16	21° 7	22°59	15°14
T 15	21 33 6	21°58'04	22° 7	8°12	1 ²³ 23	20°28	13°46	20°44	10°17	21° 7	22°59	15°15
F 16	21 37 3	22°55'46	23° 5	13°39	3° 1	20°54	13°50	20°46	10°17	21° 7	23° 0	15°16
S 17	21 40 59	23°53'30	24° 2	18°57	4°38	21°21	13°55	20°48	10°18	21° 8	23° 0	15°16
S 18	21 44 56	24°51'16	25° 0	24° 5	6°16	21°47	13°59	20°50	10°19	21° 8	23° 0	15°17
M19	21 48 52	25°49'03	25°56	29° 4	7°53	22°14	14° 4	20°52	10°20	21° 9	23° 0	15°18
T 20	21 52 49	26°46'53	26°53	3 ⁵³ 53	9°31	22°40	14° 9	20°53	10°20	21° 9	23° 0	15°18
W21	21 56 46	27°44'43	27°49	8°33	11° 8	23° 7	14°13	20°55	10°21	21° 9	23° 0	15°19
T 22	22 0 42	28°42'36	28°45	13° 3	12°45	23°33	14°18	20°57	10°22	21°10	23° 1	15°19
F 23	22 4 39	29°40'30	29°41	17°26	14°23	24° 0	14°22	20°59	10°22	21°10	23° 1	15°20
S 24	22 8 35	0 ³⁸ 25	0 ³⁷ 37	21°39	16° 0	24°26	14°27	21° 1	10°23	21°10	23° 1	15°21
S 25	22 12 32	1°36'22	1°33	25°45	17°38	24°53	14°32	21° 3	10°24	21°11	23° 1	15°21
M26	22 16 28	2°34'21	2°29	29°44	19°15	25°20	14°36	21° 5	10°25	21°11	23° 1	15°22
T 27	22 20 25	3°32'20	3°26	3 ³⁶ 36	20°52	25°46	14°41	21° 7	10°25	21°11	23° 2	15°23
W28	22 24 21	4°30'22	4°23	7°21	22°29	26°13	14°45	21° 8	10°26	21°12	23° 2	15°23
T 29	22 28 18	5°28'24	5°20	11° 0	24° 7	26°40	14°50	21°10	10°27	21°12	23° 2	15°24
F 30	22 32 15	6°26'28	6°18	14°33	25°44	27° 6	14°55	21°12	10°27	21°12	23° 2	15°25
S 31	22 36 11	7 ²⁴ 33	7 ¹⁶ 16	18 ¹ 1	27 ²¹ 21	27 ³³ 33	14 ⁵⁹ 59	21 ¹⁴ 14	10 ²⁸ 28	21 ¹³ 13	23 ² 2	15 ²⁵ 25

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SWISS EPHEMERIS for the year 1816
heliocentric

SEPTEMBER 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
S 1	22 40 8	8 ^h 22'40"	8 ^h 15'	21 ^h 24'	28 ^h 58'	28 ^h 0'	15 ^h 4'	21 ^h 16'	10 ^h 29'	21 ^h 13'	23 ^h 3'	15 ^h 26'
M 2	22 44 4	9°20'48"	9°14'	24°42'	0 ^h 35'	28°26'	15° 8'	21°18'	10°30'	21°14'	23° 3'	15°26'
T 3	22 48 1	10°18'58"	10°13'	27°57'	2°12'	28°53'	15°13'	21°20'	10°30'	21°14'	23° 3'	15°27'
W 4	22 51 57	11°17'09"	11°13'	1 ^h 7'	3°49'	29°20'	15°18'	21°22'	10°31'	21°14'	23° 3'	15°28'
T 5	22 55 54	12°15'22"	12°12'	4°14'	5°26'	29°47'	15°22'	21°23'	10°32'	21°15'	23° 3'	15°28'
F 6	22 59 50	13°13'36"	13°12'	7°17'	7° 3'	0 ^h 13'	15°27'	21°25'	10°32'	21°15'	23° 3'	15°29'
S 7	23 3 47	14°11'53"	14°12'	10°18'	8°40'	0°40'	15°31'	21°27'	10°33'	21°15'	23° 4'	15°30'
S 8	23 7 44	15°10'10"	15°12'	13°16'	10°17'	1° 7'	15°36'	21°29'	10°34'	21°16'	23° 4'	15°30'
M 9	23 11 40	16° 8'30"	16°12'	16°12'	11°54'	1°34'	15°41'	21°31'	10°35'	21°16'	23° 4'	15°31'
T 10	23 15 37	17° 6'52"	17°12'	19° 5'	13°31'	2° 1'	15°45'	21°33'	10°35'	21°16'	23° 4'	15°32'
W 11	23 19 33	18° 5'16"	18°12'	21°57'	15° 8'	2°28'	15°50'	21°35'	10°36'	21°17'	23° 4'	15°32'
T 12	23 23 30	19° 3'42"	19°11'	24°47'	16°44'	2°55'	15°54'	21°37'	10°37'	21°17'	23° 5'	15°33'
F 13	23 27 26	20° 2'10"	20°11'	27°35'	18°21'	3°22'	15°59'	21°39'	10°37'	21°17'	23° 5'	15°33'
S 14	23 31 23	21° 0'40"	21°10'	0 ^h 22'	19°58'	3°49'	16° 4'	21°40'	10°38'	21°18'	23° 5'	15°34'
S 15	23 35 19	21°59'13"	22° 8'	3° 9'	21°34'	4°16'	16° 8'	21°42'	10°39'	21°18'	23° 5'	15°35'
M 16	23 39 16	22°57'48"	23° 6'	5°54'	23°11'	4°43'	16°13'	21°44'	10°40'	21°18'	23° 5'	15°35'
T 17	23 43 13	23°56'25"	24° 4'	8°39'	24°47'	5°10'	16°18'	21°46'	10°40'	21°19'	23° 6'	15°36'
W 18	23 47 9	24°55'04"	25° 2'	11°24'	26°24'	5°37'	16°22'	21°48'	10°41'	21°19'	23° 6'	15°37'
T 19	23 51 6	25°53'45"	25°59'	14° 9'	28° 0'	6° 4'	16°27'	21°50'	10°42'	21°20'	23° 6'	15°37'
F 20	23 55 2	26°52'29"	26°56'	16°54'	29°37'	6°31'	16°31'	21°52'	10°42'	21°20'	23° 6'	15°38'
S 21	23 58 59	27°51'14"	27°53'	19°39'	1 ^h 13'	6°58'	16°36'	21°54'	10°43'	21°20'	23° 6'	15°39'
S 22	0 2 55	28°50'02"	28°49'	22°24'	2°49'	7°25'	16°41'	21°55'	10°44'	21°21'	23° 6'	15°39'
M 23	0 6 52	29°48'52"	29°46'	25°10'	4°26'	7°52'	16°45'	21°57'	10°45'	21°21'	23° 7'	15°40'
T 24	0 10 48	0 ^h 47'43"	0 ^h 43'	27°57'	6° 2'	8°19'	16°50'	21°59'	10°45'	21°21'	23° 7'	15°40'
W 25	0 14 45	1°46'36"	1°40'	0 ^h 45'	7°38'	8°47'	16°54'	22° 1'	10°46'	21°22'	23° 7'	15°41'
T 26	0 18 42	2°45'32"	2°38'	3°35'	9°14'	9°14'	16°59'	22° 3'	10°47'	21°22'	23° 7'	15°42'
F 27	0 22 38	3°44'28"	3°36'	6°26'	10°50'	9°41'	17° 4'	22° 5'	10°48'	21°22'	23° 7'	15°42'
S 28	0 26 35	4°43'27"	4°35'	9°19'	12°26'	10° 8'	17° 8'	22° 7'	10°48'	21°23'	23° 8'	15°43'
S 29	0 30 31	5°42'28"	5°34'	12°14'	14° 2'	10°36'	17°13'	22° 9'	10°49'	21°23'	23° 8'	15°44'
M 30	0 34 28	6°41'30"	6°33'	15°11'	15°38'	11° 3'	17°17'	22°11'	10°50'	21°23'	23° 8'	15°44'

Delta T = 12.09 sec.

OCTOBER 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
T 1	0 38 24	7 ^h 40'34"	7 ^h 33'	18 ^h 10'	17 ^h 14'	11 ^h 31'	17 ^h 22'	22°12'	10°50'	21°24'	23 ^h 8'	15 ^h 45'
W 2	0 42 21	8°39'40"	8°33'	21°12'	18°50'	11°58'	17°27'	22°14'	10°51'	21°24'	23° 8'	15°46'
T 3	0 46 17	9°38'47"	9°33'	24°18'	20°25'	12°25'	17°31'	22°16'	10°52'	21°25'	23° 9'	15°46'
F 4	0 50 14	10°37'57"	10°34'	27°26'	22° 1'	12°53'	17°36'	22°18'	10°53'	21°25'	23° 9'	15°47'
S 5	0 54 11	11°37'08"	11°35'	0 ^h 38'	23°37'	13°20'	17°41'	22°20'	10°53'	21°25'	23° 9'	15°47'
S 6	0 58 7	12°36'21"	12°36'	3°54'	25°13'	13°48'	17°45'	22°22'	10°54'	21°26'	23° 9'	15°48'
M 7	1 2 4	13°35'37"	13°37'	7°14'	26°48'	14°15'	17°50'	22°24'	10°55'	21°26'	23° 9'	15°49'
T 8	1 6 0	14°34'54"	14°38'	10°39'	28°24'	14°43'	17°54'	22°26'	10°55'	21°26'	23°10'	15°49'
W 9	1 9 57	15°34'14"	15°39'	14° 8'	29°59'	15°11'	17°59'	22°27'	10°56'	21°27'	23°10'	15°50'
T 10	1 13 53	16°33'36"	16°39'	17°42'	1 ^h 35'	15°38'	18° 4'	22°29'	10°57'	21°27'	23°10'	15°51'
F 11	1 17 50	17°33'00"	17°40'	21°22'	3°10'	16° 6'	18° 8'	22°31'	10°58'	21°27'	23°10'	15°51'
S 12	1 21 46	18°32'26"	18°40'	25° 8'	4°46'	16°34'	18°13'	22°33'	10°58'	21°28'	23°10'	15°52'
S 13	1 25 43	19°31'55"	19°41'	29° 0'	6°21'	17° 1'	18°17'	22°35'	10°59'	21°28'	23°10'	15°53'
M 14	1 29 39	20°31'26"	20°40'	2 ^h 59'	7°56'	17°29'	18°22'	22°37'	11° 0'	21°28'	23°11'	15°53'
T 15	1 33 36	21°30'59"	21°40'	7° 4'	9°32'	17°57'	18°27'	22°39'	11° 0'	21°29'	23°11'	15°54'
W 16	1 37 33	22°30'35"	22°39'	11°17'	11° 7'	18°25'	18°31'	22°41'	11° 1'	21°29'	23°11'	15°54'
T 17	1 41 29	23°30'13"	23°37'	15°38'	12°42'	18°53'	18°36'	22°43'	11° 2'	21°30'	23°11'	15°55'
F 18	1 45 26	24°29'53"	24°36'	20° 6'	14°18'	19°20'	18°41'	22°44'	11° 3'	21°30'	23°11'	15°56'
S 19	1 49 22	25°29'36"	25°34'	24°43'	15°53'	19°48'	18°45'	22°46'	11° 3'	21°30'	23°12'	15°56'
S 20	1 53 19	26°29'20"	26°31'	29°29'	17°28'	20°16'	18°50'	22°48'	11° 4'	21°31'	23°12'	15°57'
M 21	1 57 15	27°29'07"	27°29'	4 ^h 24'	19° 3'	20°44'	18°54'	22°50'	11° 5'	21°31'	23°12'	15°58'
T 22	2 1 12	28°28'56"	28°27'	9°27'	20°38'	21°12'	18°59'	22°52'	11° 5'	21°31'	23°12'	15°58'
W 23	2 5 8	29°28'46"	29°25'	14°40'	22°13'	21°40'	19° 4'	22°54'	11° 6'	21°32'	23°12'	15°59'
T 24	2 9 5	0 ^h 28'39"	0 ^h 23'	20° 2'	23°48'	22° 8'	19° 8'	22°56'	11° 7'	21°32'	23°13'	16° 0'
F 25	2 13 2	1°28'33"	1°21'	25°33'	25°23'	22°37'	19°13'	22°58'	11° 8'	21°32'	23°13'	16° 0'
S 26	2 16 58	2°28'29"	2°20'	1 ^h 12'	26°58'	23° 5'	19°18'	22°59'	11° 8'	21°33'	23°13'	16° 1'
S 27	2 20 55	3°28'27"	3°20'	7° 0'	28°33'	23°33'	19°22'	23° 1'	11° 9'	21°33'	23°13'	16° 1'
M 28	2 24 51	4°28'26"	4°19'	12°56'	0 ^h 8'	24° 1'	19°27'	23° 3'	11°10'	21°33'	23°13'	16° 2'
T 29	2 28 48	5°28'27"	5°19'	18°58'	1°43'	24°29'	19°31'	23° 5'	11°10'	21°34'	23°13'	16° 3'
W 30	2 32 44	6°28'29"	6°20'	25° 6'	3°18'	24°58'	19°36'	23° 7'	11°11'	21°34'	23°14'	16° 3'
T 31	2 36 41	7°28'33"	7°21'	1 ^h 19'	4 ^h 53'	25°26'	19°41'	23° 9'	11°12'	21°35'	23°14'	16° 4'

Delta T = 12.08 sec.

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SWISS EPHEMERIS for the year 1816
heliocentric

NOVEMBER 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
F 1	2 40 37	8828'39	8822	7II35	6828	25254	19M45	23211	11213	21235	23214	1625
S 2	2 44 34	9°28'46	9°24	13°54	8° 3	26°23	19°50	23°13	11°13	21°35	23°14	16° 5
S 3	2 48 31	10°28'55	10°25	20°13	9°38	26°51	19°54	23°15	11°14	21°36	23°14	16° 6
M 4	2 52 27	11°29'06	11°27	26°32	11°13	27°20	19°59	23°16	11°15	21°36	23°15	16° 7
T 5	2 56 24	12°29'18	12°29	2848	12°48	27°48	20° 4	23°18	11°15	21°36	23°15	16° 7
W 6	3 0 20	13°29'32	13°31	9° 0	14°23	28°17	20° 8	23°20	11°16	21°37	23°15	16° 8
T 7	3 4 17	14°29'48	14°33	15° 7	15°57	28°45	20°13	23°22	11°17	21°37	23°15	16° 8
F 8	3 8 13	15°30'06	15°35	21° 8	17°32	29°14	20°18	23°24	11°18	21°37	23°15	16° 9
S 9	3 12 10	16°30'26	16°37	27° 1	19° 7	29°43	20°22	23°26	11°18	21°38	23°16	16°10
S 10	3 16 6	17°30'48	17°38	2246	20°42	0M11	20°27	23°28	11°19	21°38	23°16	16°10
M 11	3 20 3	18°31'12	18°39	8°22	22°17	0°40	20°32	23°30	11°20	21°38	23°16	16°11
T 12	3 24 0	19°31'37	19°40	13°50	23°52	1° 9	20°36	23°32	11°20	21°39	23°16	16°12
W 13	3 27 56	20°32'05	20°41	19° 7	25°26	1°38	20°41	23°33	11°21	21°39	23°16	16°12
T 14	3 31 53	21°32'34	21°41	24°15	27° 1	2° 7	20°45	23°35	11°22	21°40	23°17	16°13
F 15	3 35 49	22°33'05	22°41	29°13	28°36	2°36	20°50	23°37	11°23	21°40	23°17	16°14
S 16	3 39 46	23°33'38	23°40	4M2	0211	3° 5	20°55	23°39	11°23	21°40	23°17	16°14
S 17	3 43 42	24°34'13	24°39	8°41	1°46	3°34	20°59	23°41	11°24	21°41	23°17	16°15
M 18	3 47 39	25°34'49	25°38	13°12	3°21	4° 3	21° 4	23°43	11°25	21°41	23°17	16°15
T 19	3 51 35	26°35'28	26°36	17°34	4°55	4°32	21° 9	23°45	11°26	21°41	23°17	16°16
W 20	3 55 32	27°36'07	27°35	21°47	6°30	5° 1	21°13	23°47	11°26	21°42	23°18	16°17
T 21	3 59 29	28°36'48	28°34	25°53	8° 5	5°30	21°18	23°49	11°27	21°42	23°18	16°17
F 22	4 3 25	29°37'31	29°33	29°52	9°40	5°59	21°22	23°50	11°28	21°42	23°18	16°18
S 23	4 7 22	0II38'15	0II32	3243	11°15	6°28	21°27	23°52	11°28	21°43	23°18	16°19
S 24	4 11 18	1°38'59	1°31	7°28	12°50	6°58	21°32	23°54	11°29	21°43	23°18	16°19
M 25	4 15 15	2°39'45	2°31	11° 7	14°25	7°27	21°36	23°56	11°30	21°43	23°19	16°20
T 26	4 19 11	3°40'32	3°31	14°40	16° 0	7°56	21°41	23°58	11°31	21°44	23°19	16°21
W 27	4 23 8	4°41'20	4°32	18° 8	17°35	8°26	21°46	24° 0	11°31	21°44	23°19	16°21
T 28	4 27 4	5°42'08	5°33	21°30	19°10	8°55	21°50	24° 2	11°32	21°45	23°19	16°22
F 29	4 31 1	6°42'58	6°34	24°49	20°45	9°25	21°55	24° 4	11°33	21°45	23°19	16°22
S 30	4 34 58	7II43'48	7II36	2823	22220	9M54	22M0	2425	11233	21245	23220	16223

Delta T = 12.07 sec.

DECEMBER 1816

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
S 1	4 38 54	8II44'40	8II38	1M13	23255	10M24	22M4	2427	11234	21246	23220	16224
M 2	4 42 51	9°45'32	9°41	4°20	25°30	10°54	22° 9	24° 9	11°35	21°46	23°20	16°24
T 3	4 46 47	10°46'25	10°43	7°23	27° 5	11°23	22°13	24°11	11°36	21°46	23°20	16°25
W 4	4 50 44	11°47'20	11°46	10°24	28°40	11°53	22°18	24°13	11°36	21°47	23°20	16°26
T 5	4 54 40	12°48'15	12°48	13°22	0X15	12°23	22°23	24°15	11°37	21°47	23°20	16°26
F 6	4 58 37	13°49'11	13°51	16°17	1°50	12°53	22°27	24°17	11°38	21°47	23°21	16°27
S 7	5 2 34	14°50'09	14°54	19°11	3°25	13°23	22°32	24°19	11°38	21°48	23°21	16°27
S 8	5 6 30	15°51'07	15°57	22° 2	5° 0	13°53	22°37	24°21	11°39	21°48	23°21	16°28
M 9	5 10 27	16°52'06	16°59	24°52	6°35	14°23	22°41	24°23	11°40	21°48	23°21	16°29
T 10	5 14 23	17°53'07	18° 1	27°40	8°10	14°53	22°46	24°24	11°41	21°49	23°21	16°29
W 11	5 18 20	18°54'08	19° 3	0228	9°45	15°23	22°51	24°26	11°41	21°49	23°22	16°30
T 12	5 22 16	19°55'11	20° 4	3°14	11°21	15°53	22°55	24°28	11°42	21°50	23°22	16°31
F 13	5 26 13	20°56'14	21° 5	6° 0	12°56	16°23	23° 0	24°30	11°43	21°50	23°22	16°31
S 14	5 30 9	21°57'18	22° 5	8°45	14°31	16°53	23° 5	24°32	11°43	21°50	23°22	16°32
S 15	5 34 6	22°58'24	23° 5	11°30	16° 6	17°23	23° 9	24°34	11°44	21°51	23°22	16°33
M 16	5 38 3	23°59'30	24° 5	14°14	17°41	17°54	23°14	24°36	11°45	21°51	23°23	16°33
T 17	5 41 59	25° 0'37	25° 4	16°59	19°17	18°24	23°18	24°38	11°46	21°51	23°23	16°34
W 18	5 45 56	26° 1'45	26° 4	19°44	20°52	18°55	23°23	24°40	11°46	21°52	23°23	16°34
T 19	5 49 52	27° 2'54	27° 3	22°29	22°27	19°25	23°28	24°41	11°47	21°52	23°23	16°35
F 20	5 53 49	28° 4'03	28° 2	25°16	24° 3	19°56	23°32	24°43	11°48	21°52	23°23	16°36
S 21	5 57 45	29° 5'12	29° 1	28° 3	25°38	20°26	23°37	24°45	11°48	21°53	23°24	16°36
S 22	6 1 42	026'22	026	0251	27°14	20°57	23°42	24°47	11°49	21°53	23°24	16°37
M 23	6 5 38	1° 7'32	1° 1	3°40	28°49	21°27	23°46	24°49	11°50	21°54	23°24	16°38
T 24	6 9 35	2° 8'42	2° 1	6°32	0Y24	21°58	23°51	24°51	11°51	21°54	23°24	16°38
W 25	6 13 32	3° 9'51	3° 1	9°24	2° 0	22°29	23°56	24°53	11°51	21°54	23°24	16°39
T 26	6 17 28	4°11'01	4° 2	12°19	3°35	23° 0	24° 0	24°55	11°52	21°55	23°24	16°40
F 27	6 21 25	5°12'11	5° 3	15°16	5°11	23°31	24° 5	24°57	11°53	21°55	23°25	16°40
S 28	6 25 21	6°13'20	6° 4	18°16	6°47	24° 2	24°10	24°58	11°53	21°55	23°25	16°41
S 29	6 29 18	7°14'30	7° 6	21°18	8°22	24°33	24°14	25° 0	11°54	21°56	23°25	16°41
M 30	6 33 14	8°15'39	8° 8	24°24	9°58	25° 4	24°19	25° 2	11°55	21°56	23°25	16°42
T 31	6 37 11	926'149	92611	27232	11Y33	25M35	24M23	2524	11256	21256	23225	16243

Delta T = 12.06 sec.

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