

SWISS EPHEMERIS for the year 1848

JANUARY 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	6 39 8	9°34'46	5♈57	23♌40	23♈49	5♊39	16°R17	8♋26	14♉20	28♌21	24°R57	4°R56	4♌55	18♌26	8♈36
S 2	6 43 5	10°46'56	17°58	25° 8	24°56	5°58	16♉9	8°31	14°20	28°23	24°V57	4♌52	4°51	18°33	8°41
M 3	6 47 1	11°48'07	0♊12	26°37	26° 3	6°17	16° 1	8°36	14°21	28°25	24°56	4°44	4°48	18°39	8°47
T 4	6 50 58	12°49'18	12°42	28° 7	27°10	6°36	15°53	8°41	14°21	28°26	24°56	4°33	4°45	18°46	8°52
W 5	6 54 54	13°50'29	25°31	29°37	28°17	6°56	15°45	8°47	14°22	28°28	24°56	4°21	4°42	18°53	8°58
T 6	6 58 51	14°51'41	8♊38	1♊7	29°25	7°16	15°37	8°52	14°22	28°30	24°56	4° 7	4°39	18°59	9° 3
F 7	7 2 48	15°52'52	22° 2	2°38	0♊33	7°37	15°29	8°57	14°23	28°31	24°56	3°54	4°36	19° 6	9° 8
S 8	7 6 44	16°54'02	5♌40	4° 9	1°41	7°58	15°21	9° 3	14°24	28°33	24°56	3°43	4°32	19°12	9°13
S 9	7 10 41	17°55'13	19°29	5°41	2°49	8°20	15°13	9° 8	14°25	28°35	24°D56	3°33	4°29	19°19	9°18
M10	7 14 37	18°56'23	3♋26	7°13	3°57	8°42	15° 4	9°14	14°25	28°37	24°56	3°27	4°26	19°26	9°23
T 11	7 18 34	19°57'32	17°27	8°46	5° 6	9° 4	14°56	9°19	14°26	28°39	24°56	3°24	4°23	19°32	9°28
W12	7 22 30	20°58'40	1°V30	10°19	6°14	9°26	14°48	9°25	14°27	28°41	24°56	3°D23	4°20	19°39	9°33
T 13	7 26 27	21°59'48	15°35	11°53	7°23	9°49	14°40	9°30	14°28	28°43	24°56	3°R24	4°17	19°46	9°38
F 14	7 30 23	23° 0'56	29°40	13°27	8°32	10°13	14°32	9°36	14°29	28°45	24°56	3°24	4°13	19°52	9°42
S 15	7 34 20	24° 2'02	13♊45	15° 1	9°41	10°36	14°25	9°42	14°30	28°46	24°56	3°22	4°10	19°59	9°47
S 16	7 38 17	25° 3'08	27°48	16°37	10°50	11° 0	14°17	9°48	14°31	28°48	24°57	3°18	4° 7	20° 6	9°51
M17	7 42 13	26° 4'13	11♈47	18°12	11°59	11°24	14° 9	9°54	14°33	28°50	24°57	3°11	4° 4	20°12	9°55
T 18	7 46 10	27° 5'17	25°41	19°48	13° 9	11°49	14° 1	10° 0	14°34	28°52	24°57	3° 2	4° 1	20°19	9°59
W19	7 50 6	28° 6'20	9♉25	21°25	14°18	12°14	13°54	10° 6	14°35	28°54	24°57	2°51	3°57	20°26	10° 3
T 20	7 54 3	29° 7'23	22°56	23° 2	15°28	12°39	13°46	10°12	14°37	28°56	24°57	2°40	3°54	20°32	10° 7
F 21	7 57 59	0♌8'25	6♈11	24°40	16°38	13° 4	13°38	10°18	14°38	28°58	24°58	2°29	3°51	20°39	10°11
S 22	8 1 56	1° 9'26	19° 8	26°18	17°48	13°30	13°31	10°25	14°39	29° 1	24°58	2°20	3°48	20°46	10°15
S 23	8 5 53	2°10'26	1♈48	27°57	18°58	13°56	13°24	10°31	14°41	29° 3	24°58	2°13	3°45	20°52	10°18
M24	8 9 49	3°11'26	14°10	29°37	20° 8	14°22	13°16	10°37	14°42	29° 5	24°59	2° 8	3°42	20°59	10°22
T 25	8 13 46	4°12'25	26°17	1♌17	21°18	14°49	13° 9	10°44	14°44	29° 7	24°59	2° 7	3°38	21° 6	10°25
W26	8 17 42	5°13'23	8♌14	2°58	22°29	15°15	13° 2	10°50	14°46	29° 9	24°59	2°D 7	3°35	21°12	10°29
T 27	8 21 39	6°14'21	20° 3	4°40	23°39	15°42	12°55	10°56	14°47	29°11	25° 0	2° 8	3°32	21°19	10°32
F 28	8 25 35	7°15'18	1♈51	6°22	24°50	16° 9	12°49	11° 3	14°49	29°13	25° 0	2°R 8	3°29	21°26	10°35
S 29	8 29 32	8°16'14	13°43	8° 5	26° 1	16°37	12°42	11° 9	14°51	29°15	25° 0	2° 8	3°26	21°32	10°38
S 30	8 33 28	9°17'10	25°44	9°49	27°12	17° 4	12°35	11°16	14°53	29°17	25° 1	2° 7	3°23	21°39	10°41
M31	8 37 25	10°18'05	8♌0	11°33	28°22	17♊32	12°29	11°23	14°V54	29°20	25°V 1	2♌3	3♌19	21°45	10°44

Delta T = 6.53 sec.

FEBRUARY 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 41 21	11°18'59	20♌33	13♌18	29♌33	18♊0	12°R23	11♋29	14°V56	29°22	25°V 2	1°R57	3♌16	21°52	10°46
W 2	8 45 18	12°19'52	3♊29	15° 3	0♊44	18°28	12°17	11°36	14°58	29°24	25° 2	1♌49	3°13	21°59	10°49
T 3	8 49 15	13°20'45	16°46	16°50	1°56	18°57	12°11	11°43	15° 0	29°26	25° 3	1°41	3°10	22° 5	10°51
F 4	8 53 11	14°21'36	0♌27	18°36	3° 7	19°25	12° 5	11°50	15° 2	29°28	25° 3	1°32	3° 7	22°12	10°54
S 5	8 57 8	15°22'26	14°26	20°24	4°18	19°54	11°59	11°57	15° 4	29°31	25° 4	1°25	3° 3	22°19	10°56
S 6	9 1 4	16°23'15	28°41	22°12	5°29	20°23	11°53	12° 3	15° 6	29°33	25° 5	1°19	3° 0	22°25	10°58
M 7	9 5 1	17°24'02	13♋5	24° 0	6°41	20°52	11°48	12°10	15° 9	29°35	25° 5	1°15	2°57	22°32	11° 0
T 8	9 8 57	18°24'48	27°33	25°49	7°52	21°22	11°43	12°17	15°11	29°37	25° 6	1°D14	2°54	22°39	11° 2
W 9	9 12 54	19°25'33	12°V 0	27°37	9° 4	21°51	11°38	12°24	15°13	29°40	25° 7	1°14	2°51	22°45	11° 4
T 10	9 16 50	20°26'16	26°22	29°26	10°16	22°21	11°33	12°31	15°15	29°42	25° 7	1°15	2°48	22°52	11° 5
F 11	9 20 47	21°26'57	10♊36	1♋15	11°27	22°51	11°28	12°38	15°18	29°44	25° 8	1°17	2°44	22°59	11° 7
S 12	9 24 44	22°27'37	24°39	3° 4	12°39	23°21	11°24	12°45	15°20	29°46	25° 9	1°R17	2°41	23° 5	11° 8
S 13	9 28 40	23°28'14	8♈33	4°52	13°51	23°51	11°19	12°52	15°22	29°49	25° 9	1°16	2°38	23°12	11° 9
M14	9 32 37	24°28'51	22°14	6°40	15° 2	24°22	11°15	13° 0	15°25	29°51	25°10	1°13	2°35	23°19	11°11
T 15	9 36 33	25°29'25	5♉44	8°26	16°14	24°52	11°11	13° 7	15°27	29°53	25°11	1° 9	2°32	23°25	11°12
W16	9 40 30	26°29'58	19° 2	10°11	17°26	25°23	11° 7	13°14	15°30	29°55	25°12	1° 3	2°28	23°32	11°12
T 17	9 44 26	27°30'29	2♈7	11°55	18°38	25°54	11° 3	13°21	15°32	29°58	25°13	0°57	2°25	23°39	11°13
F 18	9 48 23	28°30'58	14°59	13°36	19°50	26°25	11° 0	13°28	15°35	0♋0	25°13	0°52	2°22	23°45	11°14
S 19	9 52 19	29°31'25	27°38	15°14	21° 2	26°56	10°57	13°35	15°37	0° 2	25°14	0°47	2°19	23°52	11°15
S 20	9 56 16	0♋31'51	10♈3	16°49	22°15	27°27	10°54	13°43	15°40	0° 5	25°15	0°44	2°16	23°59	11°15
M21	10 0 13	1°32'16	22°16	18°21	23°27	27°58	10°51	13°50	15°43	0° 7	25°16	0°42	2°13	24° 5	11°15
T 22	10 4 9	2°32'38	4♌18	19°48	24°39	28°29	10°48	13°57	15°45	0° 9	25°17	0°D42	2° 9	24°12	11°16
W23	10 8 6	3°32'59	16°12	21°10	25°51	29° 1	10°45	14° 5	15°48	0°11	25°18	0°42	2° 6	24°19	11°16
T 24	10 12 2	4°33'19	28° 1	22°26	27° 3	29°33	10°43	14°12	15°51	0°14	25°19	0°44	2° 3	24°25	11°R16
F 25	10 15 59	5°33'37	9♈49	23°36	28°16	0♈4	10°41	14°19	15°54	0°16	25°20	0°46	2° 0	24°32	11°16
S 26	10 19 55	6°33'54	21°41	24°39	29°28	0°36	10°39	14°26	15°56	0°18	25°21	0°48	1°57	24°38	11°15
S 27	10 23 52	7°34'09	3♌41	25°35	0♌41	1° 8	10°37	14°34	15°59	0°21	25°22	0°R48	1°54	24°45	11°15
M28	10 27 48	8°34'23	15°55	26°22	1°53	1°40	10°36	14°41	16° 2	0°23	25°23	0°48	1°50	24°52	11°15
T 29	10 31 45	9°34'35	28♌26	27♋1	3♌6	2♈13	10°34	14°48	16°V 5	0°25	25°V24	0°47	1°47	24°58	11°14

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SWISS EPHEMERIS for the year 1848

MARCH 1848

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
W 1	10 35 42	10 ^h 34'46	11 ^h 31'19	27 ^h 31'31	4 ^h 18'18	2 ^h 45'45	10 ^h R33	14 ^h 56'56	16 ^h 8'8	0 ^h 27'27	25 ^h 25'25	0 ^h R45	1 ^h 44'44	25 ^h 5'5	11 ^h R13	
T 2	10 39 38	11 ^h 34'55	24 ^h 37'37	27 ^h 53'53	5 ^h 31'31	3 ^h 17'17	10 ^h 32'32	15 ^h 3'3	16 ^h 11'11	0 ^h 30'30	25 ^h 26'26	0 ^h 42'42	1 ^h 41'41	25 ^h 12'12	11 ^h M13	
F 3	10 43 35	12 ^h 35'03	8 ^h 21'21	28 ^h 4'4	6 ^h 43'43	3 ^h 50'50	10 ^h 31'31	15 ^h 11'11	16 ^h 14'14	0 ^h 32'32	25 ^h 27'27	0 ^h 40'40	1 ^h 38'38	25 ^h 18'18	11 ^h 12'12	
S 4	10 47 31	13 ^h 35'09	22 ^h 30'30	28 ^h R7'7	7 ^h 56'56	4 ^h 22'22	10 ^h 31'31	15 ^h 18'18	16 ^h 17'17	0 ^h 34'34	25 ^h 28'28	0 ^h 37'37	1 ^h 34'34	25 ^h 25'25	11 ^h 11'11	
S 5	10 51 28	14 ^h 35'13	7 ^h 0'0	28 ^h 1'1	9 ^h 9'9	4 ^h 55'55	10 ^h 31'31	15 ^h 25'25	16 ^h 20'20	0 ^h 36'36	25 ^h 29'29	0 ^h 36'36	1 ^h 31'31	25 ^h 32'32	11 ^h 10'10	
M 6	10 55 24	15 ^h 35'15	21 ^h 45'45	27 ^h 45'45	10 ^h 21'21	5 ^h 28'28	10 ^h D30	15 ^h 33'33	16 ^h 23'23	0 ^h 38'38	25 ^h 30'30	0 ^h 35'35	1 ^h 28'28	25 ^h 38'38	11 ^h 8'8	
T 7	10 59 21	16 ^h 35'15	6 ^h 38'38	27 ^h 21'21	11 ^h 34'34	6 ^h 1'1	10 ^h 30'30	15 ^h 40'40	16 ^h 26'26	0 ^h 41'41	25 ^h 31'31	0 ^h D35	1 ^h 25'25	25 ^h 45'45	11 ^h 7'7	
W 8	11 3 17	17 ^h 35'13	21 ^h 32'32	26 ^h 50'50	12 ^h 47'47	6 ^h 34'34	10 ^h 31'31	15 ^h 47'47	16 ^h 29'29	0 ^h 43'43	25 ^h 32'32	0 ^h 35'35	1 ^h 22'22	25 ^h 52'52	11 ^h 6'6	
T 9	11 7 14	18 ^h 35'09	6 ^h 18'18	26 ^h 11'11	13 ^h 59'59	7 ^h 7'7	10 ^h 31'31	15 ^h 55'55	16 ^h 32'32	0 ^h 45'45	25 ^h 33'33	0 ^h 36'36	1 ^h 19'19	25 ^h 58'58	11 ^h 4'4	
F 10	11 11 10	19 ^h 35'03	20 ^h 52'52	25 ^h 27'27	15 ^h 12'12	7 ^h 40'40	10 ^h 32'32	16 ^h 2'2	16 ^h 35'35	0 ^h 47'47	25 ^h 35'35	0 ^h 37'37	1 ^h 15'15	26 ^h 5'5	11 ^h 2'2	
S 11	11 15 7	20 ^h 34'55	5 ^h 11'8	24 ^h 37'37	16 ^h 25'25	8 ^h 13'13	10 ^h 32'32	16 ^h 10'10	16 ^h 38'38	0 ^h 49'49	25 ^h 36'36	0 ^h 38'38	1 ^h 12'12	26 ^h 12'12	11 ^h 1'1	
S 12	11 19 4	21 ^h 34'45	19 ^h 5'5	23 ^h 44'44	17 ^h 38'38	8 ^h 47'47	10 ^h 34'34	16 ^h 17'17	16 ^h 42'42	0 ^h 52'52	25 ^h 37'37	0 ^h R38	1 ^h 9'9	26 ^h 18'18	10 ^h 59'59	
M13	11 23 0	22 ^h 34'32	2 ^h 42'42	22 ^h 48'48	18 ^h 51'51	9 ^h 20'20	10 ^h 35'35	16 ^h 24'24	16 ^h 45'45	0 ^h 54'54	25 ^h 38'38	0 ^h 38'38	1 ^h 6'6	26 ^h 25'25	10 ^h 57'57	
T 14	11 26 57	23 ^h 34'17	16 ^h 1'1	21 ^h 51'51	20 ^h 3'3	9 ^h 53'53	10 ^h 36'36	16 ^h 32'32	16 ^h 48'48	0 ^h 56'56	25 ^h 39'39	0 ^h 37'37	1 ^h 3'3	26 ^h 32'32	10 ^h 55'55	
W15	11 30 53	24 ^h 33'59	29 ^h 2'2	20 ^h 55'55	21 ^h 16'16	10 ^h 27'27	10 ^h 38'38	16 ^h 39'39	16 ^h 51'51	0 ^h 58'58	25 ^h 40'40	0 ^h 37'37	1 ^h 0'0	26 ^h 38'38	10 ^h 52'52	
T 16	11 34 50	25 ^h 33'40	11 ^h 47'47	19 ^h 59'59	22 ^h 29'29	11 ^h 0'0	10 ^h 39'39	16 ^h 46'46	16 ^h 54'54	1 ^h 0'0	25 ^h 42'42	0 ^h 36'36	0 ^h 56'56	26 ^h 45'45	10 ^h 50'50	
F 17	11 38 46	26 ^h 33'18	24 ^h 19'19	19 ^h 6'6	23 ^h 42'42	11 ^h 34'34	10 ^h 41'41	16 ^h 54'54	16 ^h 58'58	1 ^h 2'2	25 ^h 43'43	0 ^h 36'36	0 ^h 53'53	26 ^h 52'52	10 ^h 48'48	
S 18	11 42 43	27 ^h 32'54	6 ^h 38'38	18 ^h 16'16	24 ^h 55'55	12 ^h 8'8	10 ^h 44'44	17 ^h 1'1	17 ^h 1'1	1 ^h 4'4	25 ^h 44'44	0 ^h 35'35	0 ^h 50'50	26 ^h 58'58	10 ^h 45'45	
S 19	11 46 39	28 ^h 32'28	18 ^h 48'48	17 ^h 30'30	26 ^h 8'8	12 ^h 42'42	10 ^h 46'46	17 ^h 8'8	17 ^h 4'4	1 ^h 6'6	25 ^h 45'45	0 ^h 35'35	0 ^h 47'47	27 ^h 5'5	10 ^h 43'43	
M20	11 50 36	29 ^h 31'59	0 ^h 49'49	16 ^h 49'49	27 ^h 21'21	13 ^h 15'15	10 ^h 48'48	17 ^h 15'15	17 ^h 8'8	1 ^h 9'9	25 ^h 47'47	0 ^h D35	0 ^h 44'44	27 ^h 12'12	10 ^h 40'40	
T 21	11 54 33	0 ^h 31'29	12 ^h 45'45	16 ^h 13'13	28 ^h 34'34	13 ^h 49'49	10 ^h 51'51	17 ^h 23'23	17 ^h 11'11	1 ^h 11'11	25 ^h 48'48	0 ^h R35	0 ^h 40'40	27 ^h 18'18	10 ^h 37'37	
W22	11 58 29	1 ^h 30'57	24 ^h 35'55	15 ^h 42'42	29 ^h 47'47	14 ^h 23'23	10 ^h 54'54	17 ^h 30'30	17 ^h 14'14	1 ^h 13'13	25 ^h 49'49	0 ^h 35'35	0 ^h 37'37	27 ^h 25'25	10 ^h 35'35	
T 23	12 2 26	2 ^h 30'23	6 ^h 11'24	15 ^h 18'18	1 ^h 0'0	14 ^h 57'57	10 ^h 57'57	17 ^h 37'37	17 ^h 18'18	1 ^h 15'15	25 ^h 51'51	0 ^h 35'35	0 ^h 34'34	27 ^h 32'32	10 ^h 32'32	
F 24	12 6 22	3 ^h 29'47	18 ^h 14'14	14 ^h 59'59	2 ^h 13'13	15 ^h 31'31	11 ^h 0'0	17 ^h 44'44	17 ^h 21'21	1 ^h 17'17	25 ^h 52'52	0 ^h 34'34	0 ^h 31'31	27 ^h 38'38	10 ^h 29'29	
S 25	12 10 19	4 ^h 29'09	0 ^h 7'7	14 ^h 47'47	3 ^h 26'26	16 ^h 6'6	11 ^h 4'4	17 ^h 52'52	17 ^h 24'24	1 ^h 19'19	25 ^h 53'53	0 ^h 34'34	0 ^h 28'28	27 ^h 45'45	10 ^h 26'26	
S 26	12 14 15	5 ^h 28'29	12 ^h 8'8	14 ^h 40'40	4 ^h 39'39	16 ^h 40'40	11 ^h 7'7	17 ^h 59'59	17 ^h 28'28	1 ^h 21'21	25 ^h 54'54	0 ^h 33'33	0 ^h 25'25	27 ^h 52'52	10 ^h 22'22	
M27	12 18 12	6 ^h 27'48	24 ^h 21'21	14 ^h D39	5 ^h 52'52	17 ^h 14'14	11 ^h 11'11	18 ^h 6'6	17 ^h 31'31	1 ^h 23'23	25 ^h 56'56	0 ^h 33'33	0 ^h 21'21	27 ^h 58'58	10 ^h 19'19	
T 28	12 22 8	7 ^h 27'04	6 ^h 34'49	14 ^h 44'44	7 ^h 5'5	17 ^h 48'48	11 ^h 15'15	18 ^h 13'13	17 ^h 34'34	1 ^h 25'25	25 ^h 57'57	0 ^h D33	0 ^h 18'18	28 ^h 5'5	10 ^h 16'16	
W29	12 26 5	8 ^h 26'19	19 ^h 37'37	14 ^h 54'54	8 ^h 18'18	18 ^h 23'23	11 ^h 19'19	18 ^h 20'20	17 ^h 38'38	1 ^h 26'26	25 ^h 58'58	0 ^h 33'33	0 ^h 15'15	28 ^h 12'12	10 ^h 12'12	
T 30	12 30 2	9 ^h 25'33	2 ^h 48'48	15 ^h 10'10	9 ^h 31'31	18 ^h 57'57	11 ^h 24'24	18 ^h 27'27	17 ^h 41'41	1 ^h 28'28	26 ^h 0'0	0 ^h 34'34	0 ^h 12'12	28 ^h 18'18	10 ^h 9'9	
F 31	12 33 58	10 ^h 24'44	16 ^h 26'26	15 ^h 30'30	10 ^h 44'44	19 ^h 32'32	11 ^h 28'28	18 ^h 34'34	17 ^h 45'45	1 ^h 30'30	26 ^h 1'1	0 ^h 34'34	0 ^h 9'9	28 ^h 25'25	10 ^h M5'5	

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APRIL 1848

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
S 1	12 37 55	11 ^h 23'54	0 ^h 30'30	15 ^h 55'55	11 ^h 57'57	20 ^h 11'11	11 ^h 33'33	18 ^h 41'41	17 ^h 48'48	1 ^h 32'32	26 ^h 1'1	0 ^h 35'35	0 ^h 5'5	28 ^h 32'32	10 ^h R 2	
S 2	12 41 51	12 ^h 23'01	15 ^h 0'0	16 ^h 25'25	13 ^h 10'10	20 ^h 41'41	11 ^h 38'38	18 ^h 48'48	17 ^h 51'51	1 ^h 34'34	26 ^h 4'4	0 ^h 36'36	0 ^h 2'2	28 ^h 38'38	9 ^h M58'58	
M 3	12 45 48	13 ^h 22'07	29 ^h 51'51	16 ^h 59'59	14 ^h 23'23	21 ^h 15'15	11 ^h 43'43	18 ^h 55'55	17 ^h 55'55	1 ^h 36'36	26 ^h 5'5	0 ^h R36	29 ^h 59'59	28 ^h 45'45	9 ^h 54'54	
T 4	12 49 44	14 ^h 21'11	14 ^h 56'56	17 ^h 37'37	15 ^h 37'37	21 ^h 50'50	11 ^h 48'48	19 ^h 2'2	17 ^h 58'58	1 ^h 38'38	26 ^h 7'7	0 ^h 36'36	29 ^h 56'56	28 ^h 51'51	9 ^h 50'50	
W 5	12 53 41	15 ^h 20'13	0 ^h 8'8	18 ^h 18'18	16 ^h 50'50	22 ^h 25'25	11 ^h 53'53	19 ^h 9'9	18 ^h 2'2	1 ^h 39'39	26 ^h 8'8	0 ^h 35'35	29 ^h 53'53	28 ^h 58'58	9 ^h 46'46	
T 6	12 57 37	16 ^h 19'12	15 ^h 14'14	19 ^h 4'4	18 ^h 3'3	22 ^h 59'59	11 ^h 58'58	19 ^h 16'16	18 ^h 5'5	1 ^h 41'41	26 ^h 9'9	0 ^h 33'33	29 ^h 50'50	29 ^h 5'5	9 ^h 42'42	
F 7	13 1 34	17 ^h 18'10	0 ^h 11'8	19 ^h 53'53	19 ^h 16'16	23 ^h 34'34	12 ^h 4'4	19 ^h 23'23	18 ^h 9'9	1 ^h 43'43	26 ^h 11'11	0 ^h 31'31	29 ^h 46'46	29 ^h 11'11	9 ^h 38'38	
S 8	13 5 31	18 ^h 17'05	14 ^h 42'42	20 ^h 45'45	20 ^h 29'29	24 ^h 9'9	12 ^h 10'10	19 ^h 30'30	18 ^h 12'12	1 ^h 45'45	26 ^h 12'12	0 ^h 29'29	29 ^h 43'43	29 ^h 18'18	9 ^h 34'34	
S 9	13 9 27	19 ^h 15'58	28 ^h 52'52	21 ^h 40'40	21 ^h 42'42	24 ^h 44'44	12 ^h 16'16	19 ^h 36'36	18 ^h 15'15	1 ^h 46'46	26 ^h 13'13	0 ^h 27'27	29 ^h 40'40	29 ^h 25'25	9 ^h 30'30	
M10	13 13 24	20 ^h 14'49	12 ^h 35'35	22 ^h 38'38	22 ^h 56'56	25 ^h 19'19	12 ^h 22'22	19 ^h 43'43	18 ^h 19'19	1 ^h 48'48	26 ^h 15'15	0 ^h 26'26	29 ^h 37'37	29 ^h 31'31	9 ^h 26'26	
T 11	13 17 20	21 ^h 13'38	25 ^h 53'53	23 ^h 39'39	24 ^h 9'9	25 ^h 54'54	12 ^h 28'28	19 ^h 50'50	18 ^h							

SWISS EPHEMERIS for the year 1848

MAY 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	14 36 11	10♌42'49	8♃ 8	21♃44	18♃33	7♌40	15♌2	21♌54	19♃30	2♌17	26♃44	0°R 1	28♌30	1♌51	7°R52
T 2	14 40 8	11°40'59	23° 9	23°29	19°46	8°16	15°11	21°59	19°33	2°18	26°45	29♌59	28°27	1°58	7♌47
W 3	14 44 4	12°39'08	8♌21	25°15	20°59	8°51	15°20	22° 5	19°36	2°19	26°47	29°55	28°24	2° 5	7°42
T 4	14 48 1	13°37'15	23°34	27° 3	22°13	9°27	15°29	22°11	19°39	2°20	26°48	29°49	28°21	2°11	7°38
F 5	14 51 57	14°35'21	8♌39	28°53	23°26	10° 3	15°39	22°16	19°42	2°21	26°49	29°43	28°17	2°18	7°33
S 6	14 55 54	15°33'24	23°25	0♌45	24°39	10°39	15°48	22°21	19°46	2°22	26°51	29°36	28°14	2°25	7°29
S 7	14 59 51	16°31'26	7♌46	2°39	25°53	11°14	15°58	22°27	19°49	2°23	26°52	29°30	28°11	2°31	7°24
M 8	15 3 47	17°29'26	21°39	4°34	27° 6	11°50	16° 7	22°32	19°52	2°24	26°53	29°25	28° 8	2°38	7°20
T 9	15 7 44	18°27'24	5♌ 2	6°32	28°19	12°26	16°17	22°37	19°55	2°25	26°55	29°23	28° 5	2°45	7°15
W10	15 11 40	19°25'20	17°59	8°31	29°32	13° 2	16°27	22°42	19°58	2°26	26°56	29°D22	28° 2	2°51	7°11
T 11	15 15 37	20°23'14	0♌32	10°32	0♌46	13°38	16°37	22°48	20° 1	2°27	26°57	29°22	27°58	2°58	7° 6
F 12	15 19 33	21°21'07	12°48	12°34	1°59	14°14	16°47	22°53	20° 4	2°27	26°59	29°23	27°55	3° 5	7° 2
S 13	15 23 30	22°18'58	24°50	14°39	3°12	14°50	16°57	22°57	20° 7	2°28	27° 0	29°R24	27°52	3°11	6°57
S 14	15 27 26	23°16'47	6♌43	16°44	4°25	15°25	17° 7	23° 2	20°10	2°29	27° 1	29°24	27°49	3°18	6°53
M15	15 31 23	24°14'34	18°31	18°52	5°39	16° 1	17°17	23° 7	20°13	2°29	27° 2	29°22	27°46	3°25	6°49
T 16	15 35 20	25°12'20	0♌19	21° 0	6°52	16°37	17°28	23°12	20°16	2°30	27° 4	29°17	27°42	3°32	6°45
W17	15 39 16	26°10'04	12° 9	23° 9	8° 5	17°13	17°38	23°16	20°19	2°31	27° 5	29°11	27°39	3°38	6°41
T 18	15 43 13	27° 7'47	24° 4	25°20	9°18	17°49	17°49	23°21	20°22	2°31	27° 6	29° 2	27°36	3°45	6°36
F 19	15 47 9	28° 5'29	6♌ 4	27°31	10°32	18°25	18° 0	23°26	20°25	2°32	27° 7	28°52	27°33	3°52	6°32
S 20	15 51 6	29° 3'09	18°12	29°42	11°45	19° 2	18°10	23°30	20°28	2°32	27° 9	28°40	27°30	3°58	6°28
S 21	15 55 2	0♌ 0'48	0♌29	1♌54	12°58	19°38	18°21	23°34	20°31	2°33	27°10	28°30	27°27	4° 5	6°24
M22	15 58 59	0°58'26	12°55	4° 6	14°12	20°14	18°32	23°39	20°34	2°33	27°11	28°20	27°23	4°12	6°20
T 23	16 2 55	1°56'03	25°33	6°17	15°25	20°50	18°43	23°43	20°36	2°34	27°12	28°13	27°20	4°18	6°17
W24	16 6 52	2°53'39	8♌24	8°27	16°38	21°26	18°54	23°47	20°39	2°34	27°13	28° 8	27°17	4°25	6°13
T 25	16 10 49	3°51'14	21°31	10°37	17°52	22° 2	19° 5	23°51	20°42	2°35	27°14	28° 5	27°14	4°32	6° 9
F 26	16 14 45	4°48'48	4♌56	12°45	19° 5	22°38	19°16	23°55	20°45	2°35	27°16	28°D 5	27°11	4°38	6° 5
S 27	16 18 42	5°46'21	18°40	14°52	20°18	23°15	19°28	23°59	20°47	2°35	27°17	28° 5	27° 8	4°45	6° 2
S 28	16 22 38	6°43'54	2♃46	16°58	21°31	23°51	19°39	24° 2	20°50	2°35	27°18	28°R 5	27° 4	4°52	5°58
M29	16 26 35	7°41'25	17°13	19° 1	22°45	24°27	19°51	24° 6	20°52	2°36	27°19	28° 4	27° 1	4°58	5°55
T 30	16 30 31	8°38'56	1♌58	21° 3	23°58	25° 3	20° 2	24°10	20°55	2°36	27°20	28° 0	26°58	5° 5	5°51
W31	16 34 28	9♌36'26	16♌56	23♌ 2	25♌12	25♌40	20♌14	24♌13	20♃58	2♌36	27♃21	27♃54	26♃55	5♌12	5♌48

Delta T = 6.56 sec.

JUNE 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	16 38 24	10♌33'55	1♌59	24♌59	26♃25	26♌16	20♌25	24♌17	21♃ 0	2♌36	27♃22	27°R46	26♌52	5♌18	5°R45
F 2	16 42 21	11°31'24	16°58	26°54	27°38	26°52	20°37	24°20	21° 3	2°36	27°23	27♌36	26°48	5°25	5♌42
S 3	16 46 18	12°28'51	1♌42	28°47	28°52	27°29	20°49	24°23	21° 5	2°36	27°24	27°25	26°45	5°32	5°39
S 4	16 50 14	13°26'17	16° 6	0♌37	0♌ 5	28° 5	21° 1	24°27	21° 7	2°36	27°25	27°15	26°42	5°38	5°36
M 5	16 54 11	14°23'42	0♌ 2	2°24	1°18	28°42	21°12	24°30	21°10	2°R36	27°26	27° 7	26°39	5°45	5°33
T 6	16 58 7	15°21'07	13°30	4° 9	2°32	29°18	21°24	24°33	21°12	2°36	27°27	27° 1	26°36	5°52	5°30
W 7	17 2 4	16°18'30	26°30	5°51	3°45	29°54	21°36	24°36	21°14	2°36	27°28	26°58	26°33	5°58	5°27
T 8	17 6 0	17°15'51	9♌ 6	7°30	4°59	0♌31	21°48	24°38	21°17	2°36	27°29	26°56	26°29	6° 5	5°25
F 9	17 9 57	18°13'12	21°22	9° 7	6°12	1° 7	22° 1	24°41	21°19	2°36	27°30	26°56	26°26	6°12	5°22
S 10	17 13 53	19°10'32	3♌24	10°41	7°25	1°44	22°13	24°44	21°21	2°36	27°31	26°56	26°23	6°18	5°20
S 11	17 17 50	20° 7'51	15°16	12°13	8°39	2°20	22°25	24°46	21°23	2°36	27°32	26°55	26°20	6°25	5°17
M12	17 21 47	21° 5'09	27° 5	13°42	9°52	2°57	22°37	24°49	21°25	2°35	27°33	26°52	26°17	6°32	5°15
T 13	17 25 43	22° 2'26	8♌54	15° 8	11° 6	3°34	22°50	24°51	21°27	2°35	27°34	26°47	26°14	6°38	5°13
W14	17 29 40	22°59'42	20°47	16°31	12°19	4°10	23° 2	24°53	21°29	2°35	27°35	26°39	26°10	6°45	5°11
T 15	17 33 36	23°56'58	2♌48	17°52	13°33	4°47	23°14	24°55	21°31	2°35	27°36	26°28	26° 7	6°52	5° 9
F 16	17 37 33	24°54'13	14°58	19° 9	14°46	5°23	23°27	24°58	21°33	2°34	27°37	26°15	26° 4	6°58	5° 7
S 17	17 41 29	25°51'28	27°18	20°24	15°59	6° 0	23°39	25° 0	21°35	2°34	27°37	26° 2	26° 1	7° 5	5° 5
S 18	17 45 26	26°48'42	9♌50	21°36	17°13	6°37	23°52	25° 1	21°37	2°33	27°38	25°49	25°58	7°12	5° 3
M19	17 49 22	27°45'55	22°32	22°44	18°26	7°13	24° 4	25° 3	21°39	2°33	27°39	25°38	25°54	7°18	5° 2
T 20	17 53 19	28°43'09	5♌26	23°50	19°40	7°50	24°17	25° 5	21°41	2°33	27°40	25°28	25°51	7°25	5° 0
W21	17 57 16	29°40'22	18°32	24°53	20°53	8°27	24°30	25° 6	21°43	2°32	27°41	25°22	25°48	7°32	4°59
T 22	18 1 12	0♌37'35	1♌49	25°52	22° 7	9° 3	24°42	25° 8	21°44	2°32	27°41	25°18	25°45	7°39	4°58
F 23	18 5 9	1°34'48	15°19	26°48	23°20	9°40	24°55	25° 9	21°46	2°31	27°42	25°17	25°42	7°45	4°56
S 24	18 9 5	2°32'00	29° 3	27°41	24°34	10°17	25° 8	25°11	21°48	2°30	27°43	25°17	25°39	7°52	4°55
S 25	18 13 2	3°29'13	13♃ 2	28°30	25°48	10°54	25°21	25°12	21°49	2°30	27°43	25°17	25°35	7°59	4°54
M26	18 16 58	4°26'26	27°16	29°15	27° 1	11°31	25°34	25°13	21°51	2°29	27°44	25°15	25°32	8° 5	4°54
T 27	18 20 55	5°23'39	11♌43	29°57	28°15	12° 7	25°46	25°14	21°52	2°28	27°45	25°12	25°29	8°12	4°53
W28	18 24 51	6°20'52	26°20	0♌35	29°28	12°44	25°59	25°15	21°54	2°28	27°45	25° 6	25°26	8°19	4°52
T 29	18 28 48	7°18'06	11♌ 1	1° 8	0♌42	13°21	26°12	25°16	21°55	2°27	27°46	24°57	25°23	8°25	4°52
F 30	18 32 45	8♌15'19	25♌40	1♌38	1♌56	13♌58	26♌25	25♌16	21♃56	2♌26	27♃47	24♌47	25♌20	8♌32	4♌51

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SWISS EPHEMERIS for the year 1848

JULY 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
S 1	18 36 41	9 ^h 12'32	10 ^h 09	2 ^h 04	3 ^h 09	14 ^h 35	26 ^h 38	25 ^h 17	21 ^h 58	2 ^h 25	27 ^h 47	24 ^h 36	25 ^h 16	8 ^h 39	4 ^h 51
S 2	18 40 38	10 ^h 9'46	24 ^h 21	2 ^h 25	4 ^h 23	15 ^h 12	26 ^h 51	25 ^h 17	21 ^h 59	2 ^h 25	27 ^h 48	24 ^h 25	25 ^h 13	8 ^h 45	4 ^h 51
M 3	18 44 34	11 ^h 6'59	8 ^h 10	2 ^h 41	5 ^h 37	15 ^h 49	27 ^h 4	25 ^h 18	22 ^h 0	2 ^h 24	27 ^h 48	24 ^h 17	25 ^h 10	8 ^h 52	4 ^h 50
T 4	18 48 31	12 ^h 4'12	21 ^h 35	2 ^h 53	6 ^h 50	16 ^h 26	27 ^h 17	25 ^h 18	22 ^h 1	2 ^h 23	27 ^h 49	24 ^h 10	25 ^h 7	8 ^h 59	4 ^h 50
W 5	18 52 27	13 ^h 1'25	4 ^h 34	3 ^h 1	8 ^h 4	17 ^h 3	27 ^h 31	25 ^h 18	22 ^h 2	2 ^h 22	27 ^h 49	24 ^h 7	25 ^h 4	9 ^h 5	4 ^h 51
T 6	18 56 24	13 ^h 58'37	17 ^h 11	3 ^h R 4	9 ^h 18	17 ^h 40	27 ^h 44	25 ^h R18	22 ^h 4	2 ^h 21	27 ^h 50	24 ^h 5	25 ^h 0	9 ^h 12	4 ^h 51
F 7	19 0 20	14 ^h 55'50	29 ^h 29	3 ^h 2	10 ^h 31	18 ^h 17	27 ^h 57	25 ^h 18	22 ^h 5	2 ^h 20	27 ^h 50	24 ^h D 5	24 ^h 57	9 ^h 19	4 ^h 51
S 8	19 4 17	15 ^h 53'02	11 ^h 32	2 ^h 55	11 ^h 45	18 ^h 54	28 ^h 10	25 ^h 18	22 ^h 6	2 ^h 19	27 ^h 51	24 ^h R 5	24 ^h 54	9 ^h 25	4 ^h 51
S 9	19 8 14	16 ^h 50'15	23 ^h 26	2 ^h 43	12 ^h 59	19 ^h 31	28 ^h 23	25 ^h 18	22 ^h 7	2 ^h 18	27 ^h 51	24 ^h 5	24 ^h 51	9 ^h 32	4 ^h 52
M10	19 12 10	17 ^h 47'27	5 ^h 16	2 ^h 28	14 ^h 13	20 ^h 9	28 ^h 36	25 ^h 18	22 ^h 7	2 ^h 17	27 ^h 51	24 ^h 4	24 ^h 48	9 ^h 39	4 ^h 53
T 11	19 16 7	18 ^h 44'40	17 ^h 8	2 ^h 7	15 ^h 26	20 ^h 46	28 ^h 50	25 ^h 17	22 ^h 8	2 ^h 16	27 ^h 52	24 ^h 0	24 ^h 45	9 ^h 45	4 ^h 53
W12	19 20 3	19 ^h 41'52	29 ^h 5	1 ^h 43	16 ^h 40	21 ^h 23	29 ^h 3	25 ^h 17	22 ^h 9	2 ^h 15	27 ^h 52	23 ^h 54	24 ^h 41	9 ^h 52	4 ^h 54
T 13	19 24 0	20 ^h 39'05	11 ^h 11	1 ^h 14	17 ^h 54	22 ^h 0	29 ^h 16	25 ^h 16	22 ^h 10	2 ^h 14	27 ^h 52	23 ^h 46	24 ^h 38	9 ^h 59	4 ^h 55
F 14	19 27 56	21 ^h 36'18	23 ^h 30	0 ^h 42	19 ^h 8	22 ^h 37	29 ^h 29	25 ^h 15	22 ^h 10	2 ^h 13	27 ^h 53	23 ^h 36	24 ^h 35	10 ^h 6	4 ^h 56
S 15	19 31 53	22 ^h 33'31	6 ^h 3	0 ^h 7	20 ^h 21	23 ^h 15	29 ^h 42	25 ^h 15	22 ^h 11	2 ^h 11	27 ^h 53	23 ^h 25	24 ^h 32	10 ^h 12	4 ^h 57
S 16	19 35 49	23 ^h 30'44	18 ^h 50	29 ^h 30	21 ^h 35	23 ^h 52	29 ^h 56	25 ^h 14	22 ^h 12	2 ^h 10	27 ^h 53	23 ^h 15	24 ^h 29	10 ^h 19	4 ^h 59
M17	19 39 46	24 ^h 27'58	1 ^h 52	28 ^h 50	22 ^h 49	24 ^h 29	0 ^h 9	25 ^h 13	22 ^h 12	2 ^h 9	27 ^h 54	23 ^h 6	24 ^h 25	10 ^h 26	5 ^h 0
T 18	19 43 43	25 ^h 25'12	15 ^h 7	28 ^h 9	24 ^h 3	25 ^h 6	0 ^h 22	25 ^h 12	22 ^h 13	2 ^h 8	27 ^h 54	22 ^h 59	24 ^h 22	10 ^h 32	5 ^h 1
W19	19 47 39	26 ^h 22'27	28 ^h 33	27 ^h 28	25 ^h 17	25 ^h 44	0 ^h 36	25 ^h 10	22 ^h 13	2 ^h 7	27 ^h 54	22 ^h 54	24 ^h 19	10 ^h 39	5 ^h 3
T 20	19 51 36	27 ^h 19'43	12 ^h 11	26 ^h 47	26 ^h 31	26 ^h 21	0 ^h 49	25 ^h 9	22 ^h 14	2 ^h 5	27 ^h 54	22 ^h 51	24 ^h 16	10 ^h 46	5 ^h 5
F 21	19 55 32	28 ^h 16'59	25 ^h 57	26 ^h 6	27 ^h 45	26 ^h 58	1 ^h 2	25 ^h 8	22 ^h 14	2 ^h 4	27 ^h 54	22 ^h D51	24 ^h 13	10 ^h 52	5 ^h 7
S 22	19 59 29	29 ^h 14'16	9 ^h 52	25 ^h 27	28 ^h 58	27 ^h 36	1 ^h 16	25 ^h 6	22 ^h 14	2 ^h 3	27 ^h 54	22 ^h 52	24 ^h 10	10 ^h 59	5 ^h 8
S 23	20 3 25	0 ^h 11'34	23 ^h 54	24 ^h 50	0 ^h 12	28 ^h 13	1 ^h 29	25 ^h 5	22 ^h 15	2 ^h 1	27 ^h 55	22 ^h R52	24 ^h 6	11 ^h 6	5 ^h 10
M24	20 7 22	1 ^h 8'53	8 ^h 3	24 ^h 16	1 ^h 26	28 ^h 51	1 ^h 42	25 ^h 3	22 ^h 15	2 ^h 0	27 ^h 55	22 ^h 52	24 ^h 3	11 ^h 12	5 ^h 13
T 25	20 11 18	2 ^h 6'13	22 ^h 18	23 ^h 46	2 ^h 40	29 ^h 28	1 ^h 55	25 ^h 1	22 ^h 15	1 ^h 59	27 ^h 55	22 ^h 51	24 ^h 0	11 ^h 19	5 ^h 15
W26	20 15 15	3 ^h 3'35	6 ^h 35	23 ^h 20	3 ^h 54	0 ^h 36	2 ^h 9	24 ^h 59	22 ^h 15	1 ^h 57	27 ^h 55	22 ^h 47	23 ^h 57	11 ^h 26	5 ^h 17
T 27	20 19 12	4 ^h 0'57	20 ^h 52	22 ^h 59	5 ^h 8	0 ^h 43	2 ^h 22	24 ^h 57	22 ^h 15	1 ^h 56	27 ^h 55	22 ^h 41	23 ^h 54	11 ^h 32	5 ^h 20
F 28	20 23 8	4 ^h 58'20	5 ^h 5	22 ^h 43	6 ^h 22	1 ^h 21	2 ^h 35	24 ^h 55	22 ^h R15	1 ^h 55	27 ^h R55	22 ^h 34	23 ^h 51	11 ^h 39	5 ^h 22
S 29	20 27 5	5 ^h 55'44	19 ^h 8	22 ^h 32	7 ^h 36	1 ^h 58	2 ^h 49	24 ^h 53	22 ^h 15	1 ^h 53	27 ^h 55	22 ^h 27	23 ^h 47	11 ^h 46	5 ^h 25
S 30	20 31 1	6 ^h 53'09	2 ^h 58	22 ^h D27	8 ^h 50	2 ^h 36	3 ^h 2	24 ^h 51	22 ^h 15	1 ^h 52	27 ^h 55	22 ^h 20	23 ^h 44	11 ^h 53	5 ^h 27
M31	20 34 58	7 ^h 50'35	16 ^h 30	22 ^h 29	10 ^h 4	3 ^h 14	3 ^h 15	24 ^h 49	22 ^h R15	1 ^h 50	27 ^h R55	22 ^h 14	23 ^h 41	11 ^h 59	5 ^h 30

Delta T = 6.58 sec.

AUGUST 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
T 1	20 38 54	8 ^h 48'02	29 ^h 42	22 ^h 37	11 ^h 18	3 ^h 51	3 ^h 29	24 ^h R46	22 ^h R15	1 ^h R49	27 ^h R55	22 ^h R10	23 ^h 38	12 ^h 6	5 ^h 33
W 2	20 42 51	9 ^h 45'30	12 ^h 34	22 ^h 51	12 ^h 32	4 ^h 29	3 ^h 42	24 ^h 44	22 ^h R15	1 ^h 47	27 ^h R55	22 ^h 7	23 ^h 35	12 ^h 13	5 ^h 36
T 3	20 46 47	10 ^h 42'58	25 ^h 7	23 ^h 12	13 ^h 46	5 ^h 7	3 ^h 55	24 ^h 41	22 ^h 14	1 ^h 46	27 ^h 55	22 ^h D 7	23 ^h 31	12 ^h 19	5 ^h 39
F 4	20 50 44	11 ^h 40'27	7 ^h 23	23 ^h 39	15 ^h 0	5 ^h 44	4 ^h 8	24 ^h 38	22 ^h 14	1 ^h 44	27 ^h 54	22 ^h 8	23 ^h 28	12 ^h 26	5 ^h 43
S 5	20 54 41	12 ^h 37'57	19 ^h 27	24 ^h 13	16 ^h 15	6 ^h 22	4 ^h 22	24 ^h 36	22 ^h 14	1 ^h 43	27 ^h 54	22 ^h 9	23 ^h 25	12 ^h 33	5 ^h 46
S 6	20 58 37	13 ^h 35'28	1 ^h 22	24 ^h 54	17 ^h 29	7 ^h 0	4 ^h 35	24 ^h 33	22 ^h 13	1 ^h 41	27 ^h 54	22 ^h 11	23 ^h 22	12 ^h 39	5 ^h 49
M 7	21 2 34	14 ^h 33'00	13 ^h 13	25 ^h 41	18 ^h 43	7 ^h 38	4 ^h 48	24 ^h 30	22 ^h 13	1 ^h 40	27 ^h 54	22 ^h R12	23 ^h 19	12 ^h 46	5 ^h 53
T 8	21 6 30	15 ^h 30'32	25 ^h 5	26 ^h 34	19 ^h 57	8 ^h 16	5 ^h 1	24 ^h 27	22 ^h 12	1 ^h 38	27 ^h 54	22 ^h 11	23 ^h 16	12 ^h 53	5 ^h 57
W 9	21 10 27	16 ^h 28'06	7 ^h 14	27 ^h 34	21 ^h 11	8 ^h 53	5 ^h 14	24 ^h 24	22 ^h 12	1 ^h 37	27 ^h 53	22 ^h 9	23 ^h 12	12 ^h 59	6 ^h 0
T 10	21 14 23	17 ^h 25'40	19 ^h 4	28 ^h 39	22 ^h 25	9 ^h 31	5 ^h 27	24 ^h 21	22 ^h 11	1 ^h 35	27 ^h 53	22 ^h 6	23 ^h 9	13 ^h 6	6 ^h 4
F 11	21 18 20	18 ^h 23'15	1 ^h 38	29 ^h 51	23 ^h 39	10 ^h 9	5 ^h 41	24 ^h 17	22 ^h 10	1 ^h 33	27 ^h 53	22 ^h 1	23 ^h 6	13 ^h 13	6 ^h 8
S 12	21 22 16	19 ^h 20'52	14 ^h 19	1 ^h 8	24 ^h 53	10 ^h 47	5 ^h 54	24 ^h 14	22 ^h 10	1 ^h 32	27 ^h 53	21 ^h 56	23 ^h 3	13 ^h 20	6 ^h 12
S 13	21 26 13	20 ^h 18'29	27 ^h 18	2 ^h 31	26 ^h 8	11 ^h 25	6 ^h 7	24 ^h 11	22 ^h 9	1 ^h 30	27 ^h 52	21 ^h 51	23 ^h 0	13 ^h 26	6 ^h 16
M14	21 30 10	21 ^h 16'07	10 ^h 37	3 ^h 59	27 ^h 22	12 ^h 3	6 ^h 20	24 ^h 7	22 ^h 8	1 ^h 29	27 ^h 52	21 ^h 46	22 ^h 57	13 ^h 33	6 ^h 20
T 15	21 34 6	22 ^h 13'47	24 ^h 13	5 ^h 31	28 ^h 36	12 ^h 41	6 ^h 33	24 ^h 4	22 ^h 7	1 ^h 27	27 ^h 52	21 ^h 43	22 ^h 53	13 ^h 40	6 ^h 24
W16	21 38 3	23 ^h 11'28	8 ^h 4	7 ^h 8	29 ^h 50	13 ^h 19	6 ^h 46	24 ^h 0	22 ^h 6	1 ^h 25	27 ^h 51	21 ^h 41	22 ^h 50	13 ^h 46	6 ^h 29
T 17	21 41 59	24 ^h 9'10	22 ^h 6	8 ^h 49	1 ^h 34	13 ^h 57	6 ^h 5								

SWISS EPHEMERIS for the year 1848

SEPTEMBER 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	22 41 8	8♍38'10	15♌24	7♎37	19♎38	23♎32	10♏10	22°R55	21°R46	0°R59	27°R43	21♎32	21♎59	15♎33	7♎50
S 2	22 45 4	9°36'19	27°25	9°32	20°53	24°11	10°22	22°K51	21°Y45	0°K58	27°Y42	21°33	21°56	15°40	7°55
S 3	22 49 1	10°34'30	9♎19	11°27	22° 7	24°49	10°34	22°46	21°43	0°56	27°41	21°34	21°53	15°47	8° 1
M 4	22 52 57	11°32'42	21°10	13°21	23°21	25°28	10°47	22°42	21°41	0°54	27°40	21°35	21°50	15°53	8° 7
T 5	22 56 54	12°30'56	3♌ 2	15°13	24°36	26° 7	10°59	22°37	21°40	0°53	27°40	21°35	21°47	16° 0	8°13
W 6	23 0 50	13°29'12	15° 0	17° 5	25°50	26°45	11°11	22°33	21°38	0°51	27°39	21°R35	21°43	16° 7	8°19
T 7	23 4 47	14°27'29	27° 8	18°55	27° 4	27°24	11°23	22°28	21°36	0°50	27°38	21°35	21°40	16°14	8°25
F 8	23 8 43	15°25'47	9♌32	20°45	28°19	28° 3	11°35	22°24	21°34	0°48	27°37	21°35	21°37	16°20	8°31
S 9	23 12 40	16°24'07	22°14	22°33	29°33	28°42	11°47	22°19	21°33	0°46	27°37	21°34	21°34	16°27	8°37
S 10	23 16 37	17°22'29	5♌18	24°20	0♌47	29°21	11°59	22°15	21°31	0°45	27°36	21°34	21°31	16°34	8°44
M11	23 20 33	18°20'52	18°46	26° 6	2° 2	29°59	12°11	22°10	21°29	0°43	27°35	21°33	21°28	16°40	8°50
T 12	23 24 30	19°19'17	2♌36	27°50	3°16	0♌38	12°23	22° 5	21°27	0°42	27°34	21°33	21°24	16°47	8°56
W13	23 28 26	20°17'43	16°47	29°34	4°30	1°17	12°35	22° 1	21°25	0°40	27°33	21°D33	21°21	16°54	9° 3
T 14	23 32 23	21°16'12	1Y14	1♌17	5°45	1°56	12°47	21°56	21°23	0°39	27°32	21°R33	21°18	17° 0	9° 9
F 15	23 36 19	22°14'42	15°52	2°58	6°59	2°35	12°58	21°51	21°21	0°37	27°31	21°33	21°15	17° 7	9°16
S 16	23 40 16	23°13'15	0♌35	4°39	8°13	3°14	13°10	21°47	21°19	0°36	27°31	21°33	21°12	17°14	9°23
S 17	23 44 12	24°11'50	15°16	6°18	9°28	3°53	13°21	21°42	21°17	0°34	27°30	21°32	21° 8	17°21	9°29
M18	23 48 9	25°10'26	29°49	7°57	10°42	4°32	13°33	21°38	21°15	0°33	27°29	21°32	21° 5	17°27	9°36
T 19	23 52 5	26° 9'06	14♌ 9	9°34	11°56	5°12	13°44	21°33	21°13	0°31	27°28	21°32	21° 2	17°34	9°43
W20	23 56 2	27° 7'47	28°14	11°11	13°11	5°51	13°55	21°28	21°10	0°30	27°27	21°D32	20°59	17°41	9°50
T 21	23 59 59	28° 6'31	12♌ 2	12°46	14°25	6°30	14° 7	21°24	21° 8	0°28	27°26	21°32	20°56	17°47	9°57
F 22	0 3 55	29° 5'17	25°33	14°21	15°39	7° 9	14°18	21°19	21° 6	0°27	27°25	21°33	20°53	17°54	10° 4
S 23	0 7 52	0♌45	8♌48	15°55	16°54	7°48	14°29	21°15	21° 4	0°26	27°24	21°33	20°49	18° 1	10°11
S 24	0 11 48	1° 2'56	21°48	17°27	18° 8	8°28	14°40	21°10	21° 2	0°24	27°23	21°34	20°46	18° 7	10°18
M25	0 15 45	2° 1'48	4♎34	18°59	19°22	9° 7	14°51	21° 5	20°59	0°23	27°22	21°35	20°43	18°14	10°25
T 26	0 19 41	3° 0'43	17° 7	20°30	20°37	9°47	15° 2	21° 1	20°57	0°22	27°21	21°R35	20°40	18°21	10°32
W27	0 23 38	3°59'40	29°29	22° 0	21°51	10°26	15°12	20°56	20°55	0°20	27°20	21°35	20°37	18°28	10°39
T 28	0 27 34	4°58'38	11♌41	23°29	23° 5	11° 5	15°23	20°52	20°52	0°19	27°19	21°34	20°34	18°34	10°47
F 29	0 31 31	5°57'39	23°45	24°57	24°20	11°45	15°34	20°48	20°50	0°18	27°18	21°33	20°30	18°41	10°54
S 30	0 35 28	6♌56'42	5♎41	26♌24	25♌34	12♌25	15♌44	20°K43	20°Y48	0°K17	27°Y17	21♎31	20♎27	18♎48	11♎ 1

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OCTOBER 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	0 39 24	7♌55'47	17♎33	27♌50	26♌48	13♌ 4	15♌54	20°R39	20°R45	0°R15	27°R16	21°R28	20♎24	18♎54	11♎ 9
M 2	0 43 21	8°54'53	29°23	29°16	28° 3	13°44	16° 5	20°K35	20°Y43	0°K14	27°Y15	21♎26	20°21	19° 1	11°16
T 3	0 47 17	9°54'02	11♌15	0♎40	29°17	14°23	16°15	20°30	20°41	0°13	27°13	21°23	20°18	19° 8	11°24
W 4	0 51 14	10°53'12	23°11	2° 3	0♎31	15° 3	16°25	20°26	20°38	0°12	27°12	21°21	20°14	19°14	11°31
T 5	0 55 10	11°52'24	5♌17	3°26	1°46	15°43	16°35	20°22	20°36	0°11	27°11	21°20	20°11	19°21	11°39
F 6	0 59 7	12°51'38	17°37	4°47	3° 0	16°23	16°45	20°18	20°33	0°10	27°10	21°D20	20° 8	19°28	11°46
S 7	1 3 3	13°50'54	0♌14	6° 7	4°14	17° 2	16°55	20°14	20°31	0° 8	27° 9	21°21	20° 5	19°35	11°54
S 8	1 7 0	14°50'11	13°14	7°26	5°28	17°42	17° 4	20°10	20°29	0° 7	27° 8	21°22	20° 2	19°41	12° 2
M 9	1 10 57	15°49'31	26°39	8°43	6°43	18°22	17°14	20° 6	20°26	0° 6	27° 7	21°24	19°59	19°48	12° 9
T 10	1 14 53	16°48'51	10♌32	9°59	7°57	19° 2	17°24	20° 2	20°24	0° 5	27° 6	21°25	19°55	19°55	12°17
W11	1 18 50	17°48'14	24°50	11°14	9°11	19°42	17°33	19°58	20°21	0° 4	27° 5	21°R25	19°52	20° 1	12°25
T 12	1 22 46	18°47'39	9Y32	12°28	10°25	20°22	17°42	19°54	20°19	0° 3	27° 4	21°24	19°49	20° 8	12°33
F 13	1 26 43	19°47'06	24°31	13°39	11°40	21° 2	17°51	19°51	20°16	0° 2	27° 2	21°22	19°46	20°15	12°40
S 14	1 30 39	20°46'34	9♌38	14°49	12°54	21°42	18° 0	19°47	20°14	0° 2	27° 1	21°19	19°43	20°21	12°48
S 15	1 34 36	21°46'05	24°43	15°57	14° 8	22°22	18° 9	19°43	20°12	0° 1	27° 0	21°14	19°39	20°28	12°56
M16	1 38 32	22°45'39	9♎39	17° 3	15°22	23° 2	18°18	19°40	20° 9	0° 0	26°59	21°10	19°36	20°35	13° 4
T 17	1 42 29	23°45'14	24°16	18° 7	16°37	23°42	18°27	19°37	20° 7	29°59	26°58	21° 6	19°33	20°42	13°12
W18	1 46 25	24°44'52	8♌31	19° 8	17°51	24°23	18°35	19°33	20° 4	29°58	26°57	21° 3	19°30	20°48	13°20
T 19	1 50 22	25°44'32	22°21	20° 7	19° 5	25° 3	18°44	19°30	20° 2	29°57	26°56	21°D 2	19°27	20°55	13°28
F 20	1 54 19	26°44'15	5♎47	21° 2	20°19	25°43	18°52	19°27	19°59	29°57	26°54	21° 3	19°24	21° 2	13°36
S 21	1 58 15	27°43'59	18°51	21°54	21°34	26°24	19° 0	19°24	19°57	29°56	26°53	21° 4	19°20	21° 8	13°44
S 22	2 2 12	28°43'46	1♎36	22°43	22°48	27° 4	19° 9	19°21	19°55	29°55	26°52	21° 6	19°17	21°15	13°52
M23	2 6 8	29°43'35	14° 6	23°27	24° 2	27°44	19°17	19°18	19°52	29°55	26°51	21° 7	19°14	21°22	14° 0
T 24	2 10 5	0♎43'26	26°23	24° 7	25°16	28°25	19°24	19°15	19°50	29°54	26°50	21°R 7	19°11	21°29	14° 8
W25	2 14 1	1°43'20	8♌31	24°42	26°30	29° 5	19°32	19°12	19°47	29°54	26°49	21° 5	19° 8	21°35	14°16
T 26	2 17 58	2°43'15	20°32	25°11	27°45	29°46	19°40	19° 9	19°45	29°53	26°48	21° 1	19° 5	21°42	14°24
F 27	2 21 54	3°43'13	2♎27	25°34	28°59	0♎27	19°47	19° 6	19°43	29°52	26°47	20°56	19° 1	21°49	14°32
S 28	2 25 51	4°43'12	14°20	25°51	0♌13	1° 7	19°54	19° 4	19°40	29°52	26°45	20°48	18°58	21°55	14°41
S 29	2 29 48	5°43'13	26°11	26° 0	1°27	1°48	20° 1	19° 1	19°38	29°52	26°44	20°39	18°55	22° 2	14°49
M30	2 33 44	6°43'16	8♌ 2	26°R 1	2°41	2°29	20° 8	18°59	19°36	29°51	26°43	20°30	18°52	22° 9	14°57
T 31	2 37 41	7♎43'21	19♌55	25♎53	3♌55	3♎ 9	20♎15	18°K57	19°Y33	29°51	26°Y42	20♎21	18♎49	22♎15	15♎ 5

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SWISS EPHEMERIS for the year 1848

NOVEMBER 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	2 41 37	8♍43'27	1♃52	25°R37	5♂10	3♍50	20♌22	18°R55	19°R31	29°R50	26°R41	20°R14	18♎45	22♍22	15♍13
T 2	2 45 34	9°43'36	13°58	25♍11	6°24	4°31	20°29	18♋53	19°V29	29°≈50	26°V40	20♎8	18°42	22°29	15°21
F 3	2 49 30	10°43'45	26°14	24°35	7°38	5°12	20°35	18°51	19°27	29°50	26°39	20°5	18°39	22°36	15°30
S 4	2 53 27	11°43'57	8≈46	23°50	8°52	5°53	20°41	18°49	19°24	29°50	26°38	20°D 4	18°36	22°42	15°38
S 5	2 57 23	12°44'09	21°38	22°55	10°6	6°34	20°47	18°47	19°22	29°49	26°37	20°4	18°33	22°49	15°46
M 6	3 1 20	13°44'24	4♋55	21°52	11°20	7°15	20°53	18°45	19°20	29°49	26°35	20°5	18°30	22°56	15°54
T 7	3 5 17	14°44'39	18°38	20°42	12°34	7°56	20°59	18°44	19°18	29°49	26°34	20°R 6	18°26	23°2	16°2
W 8	3 9 13	15°44'56	2V50	19°26	13°48	8°37	21°5	18°42	19°16	29°49	26°33	20°5	18°23	23°9	16°11
T 9	3 13 10	16°45'15	17°29	18°6	15°2	9°18	21°10	18°41	19°14	29°49	26°32	20°2	18°20	23°16	16°19
F 10	3 17 6	17°45'35	2♃32	16°46	16°16	9°59	21°15	18°39	19°12	29°49	26°31	19°57	18°17	23°23	16°27
S 11	3 21 3	18°45'57	17°49	15°28	17°30	10°40	21°21	18°38	19°10	29°D49	26°30	19°49	18°14	23°29	16°35
S 12	3 24 59	19°46'20	3♐10	14°14	18°44	11°22	21°26	18°37	19°8	29°49	26°29	19°40	18°11	23°36	16°43
M13	3 28 56	20°46'46	18°23	13°6	19°58	12°3	21°30	18°36	19°6	29°49	26°28	19°31	18°7	23°43	16°52
T 14	3 32 52	21°47'13	3♁19	12°7	21°12	12°44	21°35	18°35	19°4	29°49	26°27	19°22	18°4	23°49	17°0
W15	3 36 49	22°47'41	17°49	11°19	22°26	13°26	21°39	18°35	19°2	29°49	26°26	19°15	18°1	23°56	17°8
T 16	3 40 46	23°48'12	1♊49	10°41	23°40	14°7	21°44	18°34	19°0	29°49	26°25	19°11	17°58	24°3	17°16
F 17	3 44 42	24°48'44	15°20	10°15	24°54	14°49	21°48	18°33	18°58	29°49	26°24	19°9	17°55	24°10	17°24
S 18	3 48 39	25°49'19	28°24	10°1	26°8	15°30	21°52	18°33	18°56	29°50	26°23	19°D 8	17°51	24°16	17°32
S 19	3 52 35	26°49'55	11♎5	9°D58	27°22	16°12	21°56	18°33	18°54	29°50	26°22	19°9	17°48	24°23	17°41
M20	3 56 32	27°50'32	23°28	10°6	28°36	16°53	21°59	18°32	18°53	29°50	26°21	19°R 9	17°45	24°30	17°49
T 21	4 0 28	28°51'12	5♁36	10°24	29°50	17°35	22°3	18°32	18°51	29°50	26°20	19°7	17°42	24°36	17°57
W22	4 4 25	29°51'53	17°35	10°51	♃4	18°17	22°6	18°D32	18°49	29°51	26°19	19°4	17°39	24°43	18°5
T 23	4 8 21	0♂52'35	29°29	11°27	2°18	18°58	22°9	18°32	18°48	29°51	26°18	18°57	17°36	24°50	18°13
F 24	4 12 18	1°53'19	11♍20	12°10	3°31	19°40	22°12	18°32	18°46	29°52	26°17	18°47	17°32	24°57	18°21
S 25	4 16 15	2°54'05	23°11	13°0	4°45	20°22	22°15	18°33	18°44	29°52	26°17	18°35	17°29	25°3	18°29
S 26	4 20 11	3°54'52	5♂3	13°55	5°59	21°4	22°17	18°33	18°43	29°53	26°16	18°21	17°26	25°10	18°37
M27	4 24 8	4°55'40	16°57	14°56	7°13	21°46	22°19	18°34	18°41	29°53	26°15	18°7	17°23	25°17	18°45
T 28	4 28 4	5°56'29	28°56	16°1	8°27	22°28	22°21	18°34	18°40	29°54	26°14	17°53	17°20	25°23	18°53
W29	4 32 1	6°57'20	11♃0	17°10	9°40	23°10	22°23	18°35	18°39	29°54	26°13	17°40	17°17	25°30	19°1
T 30	4 35 57	7♂58'11	23♃11	18♍22	10♃54	23♍52	22♌25	18♋36	18°V37	29°≈55	26°V12	17♎30	17♎13	25♍37	19♍9

Delta T = 6.61 sec.

DECEMBER 1848

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	4 39 54	8♌59'04	5≈31	19♍37	12♃8	24♍34	22♌27	18♋37	18°R36	29°≈56	26°R12	17°R23	17♎10	25♍44	19♍17
S 2	4 43 50	9°59'57	18°4	20°54	13°21	25°16	22°28	18°38	18°V35	29°56	26°V11	17♎19	17°7	25°50	19°25
S 3	4 47 47	11°0'51	0♋53	22°14	14°35	25°58	22°29	18°39	18°33	29°57	26°10	17°18	17°4	25°57	19°32
M 4	4 51 44	12°1'46	14°1	23°35	15°49	26°40	22°30	18°40	18°32	29°58	26°9	17°18	17°1	26°4	19°40
T 5	4 55 40	13°2'42	27°33	24°58	17°2	27°22	22°31	18°42	18°31	29°59	26°8	17°17	16°57	26°10	19°48
W 6	4 59 37	14°3'38	11V31	26°22	18°16	28°5	22°31	18°43	18°30	29°59	26°8	17°16	16°54	26°17	19°56
T 7	5 3 33	15°4'35	25°56	27°47	19°29	28°47	22°32	18°45	18°29	0♋0	26°7	17°12	16°51	26°24	20°3
F 8	5 7 30	16°5'32	10♃45	29°14	20°43	29°29	22°R32	18°46	18°28	0°1	26°6	17°6	16°48	26°30	20°11
S 9	5 11 26	17°6'30	25°52	0♂41	21°56	0♂12	22°32	18°48	18°27	0°2	26°6	16°56	16°45	26°37	20°19
S 10	5 15 23	18°7'30	11♐9	2°9	23°9	0°54	22°32	18°50	18°26	0°3	26°5	16°45	16°42	26°44	20°26
M11	5 19 19	19°8'30	26°24	3°37	24°23	1°37	22°31	18°52	18°25	0°4	26°4	16°33	16°38	26°51	20°34
T 12	5 23 16	20°9'30	11♁26	5°6	25°36	2°19	22°31	18°54	18°25	0°5	26°4	16°22	16°35	26°57	20°41
W13	5 27 13	21°10'32	26°5	6°35	26°49	3°2	22°30	18°56	18°24	0°6	26°3	16°13	16°32	27°4	20°49
T 14	5 31 9	22°11'34	10♌16	8°5	28°3	3°44	22°29	18°59	18°23	0°7	26°3	16°6	16°29	27°11	20°56
F 15	5 35 6	23°12'38	23°57	9°36	29°16	4°27	22°28	19°1	18°22	0°8	26°2	16°3	16°26	27°18	21°4
S 16	5 39 2	24°13'42	7♎8	11°6	0≈29	5°10	22°26	19°4	18°22	0°10	26°2	16°1	16°23	27°24	21°11
S 17	5 42 59	25°14'47	19°53	12°37	1°42	5°52	22°25	19°6	18°21	0°11	26°1	16°1	16°19	27°31	21°18
M18	5 46 55	26°15'53	2♁17	14°8	2°55	6°35	22°23	19°9	18°21	0°12	26°1	16°1	16°16	27°38	21°25
T 19	5 50 52	27°16'59	14°25	15°40	4°8	7°18	22°21	19°12	18°20	0°13	26°0	16°0	16°13	27°44	21°33
W20	5 54 48	28°18'07	26°22	17°11	5°21	8°1	22°19	19°15	18°20	0°14	26°0	15°57	16°10	27°51	21°40
T 21	5 58 45	29°19'15	8♍14	18°43	6°34	8°44	22°17	19°18	18°19	0°16	25°59	15°50	16°7	27°58	21°47
F 22	6 2 42	0♃20'24	20°3	20°16	7°47	9°27	22°14	19°21	18°19	0°17	25°59	15°41	16°3	28°5	21°54
S 23	6 6 38	1°21'33	1♂54	21°48	9°0	10°10	22°11	19°24	18°19	0°18	25°58	15°30	16°0	28°11	22°1
S 24	6 10 35	2°22'43	13°49	23°21	10°12	10°53	22°8	19°27	18°19	0°20	25°58	15°16	15°57	28°18	22°8
M25	6 14 31	3°23'53	25°50	24°54	11°25	11°36	22°5	19°30	18°19	0°21	25°58	15°2	15°54	28°25	22°15
T 26	6 18 28	4°25'03	7♃58	26°27	12°38	12°19	22°2	19°34	18°18	0°23	25°57	14°49	15°51	28°31	22°22
W27	6 22 24	5°26'14	20°13	28°1	13°50	13°2	21°59	19°38	18°D18	0°24	25°57	14°36	15°48	28°38	22°28
T 28	6 26 21	6°27'25	2≈37	29°34	15°3	13°45	21°55	19°41	18°18	0°26	25°57	14°27	15°44	28°45	22°35
F 29	6 30 17	7°28'36	15°10	1♃9	16°15	14°29	21°51	19°45	18°18	0°27	25°56	14°20	15°41	28°52	22°42
S 30	6 34 14	8°29'47	27°54	2°43	17°28	15°12	21°47	19°49	18°19	0°29	25°56	14°16	15°38	28°58	22°48
S 31	6 38 11	9♃30'57	10♋51	4♃18	18≈40	15♂55	21♌43	19♋53	18°V19	0♋30	25°V56	14°D15	15♎35	29♍5	22♍55

Delta T = 6.62 sec.

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