

SWISS EPHEMERIS for the year 1881

JANUARY 1881

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
S 1	6 43 8	10°34'30	16°34	26°11	21°57	20°10	10°54	22°10	13°R42	11°R38	26°R40	27°R22	26°37	11°18	12°R59
S 2	6 47 4	11°47'41	16°56	27°41	23° 9	20°54	11° 0	22°11	13°M42	11°B37	26°B39	27°21	26°33	11°25	12°B58
M 3	6 51 1	12°48'52	16°55	29°12	24°20	21°37	11° 5	22°12	13°41	11°37	26°38	27°19	26°30	11°31	12°57
T 4	6 54 57	13°50'03	17°34	0°34	25°31	22°21	11°11	22°13	13°40	11°36	26°37	27°17	26°27	11°38	12°56
W 5	6 58 54	14°51'13	15°46	2°14	26°43	23° 5	11°17	22°14	13°39	11°36	26°37	27°15	26°24	11°45	12°55
T 6	7 2 50	15°52'23	29°31	3°45	27°54	23°49	11°24	22°15	13°38	11°35	26°36	27°13	26°21	11°51	12°54
F 7	7 6 47	16°53'32	12°Y49	5°17	29° 4	24°33	11°30	22°17	13°37	11°35	26°35	27°D12	26°17	11°58	12°53
S 8	7 10 43	17°54'41	25°42	6°50	0°X15	25°17	11°37	22°18	13°36	11°34	26°35	27°12	26°14	12° 5	12°52
S 9	7 14 40	18°55'50	8°B14	8°23	1°26	26° 1	11°43	22°20	13°35	11°34	26°34	27°13	26°11	12°11	12°51
M10	7 18 37	19°56'58	20°29	9°56	2°36	26°46	11°50	22°22	13°34	11°33	26°33	27°15	26° 8	12°18	12°50
T 11	7 22 33	20°58'05	2°II31	11°30	3°47	27°30	11°58	22°24	13°32	11°33	26°33	27°17	26° 5	12°24	12°50
W12	7 26 30	21°59'12	14°25	13° 4	4°57	28°14	12° 5	22°25	13°31	11°33	26°32	27°18	26° 2	12°31	12°49
T 13	7 30 26	23° 0'18	26°14	14°39	6° 7	28°58	12°12	22°28	13°30	11°32	26°32	27°R19	25°58	12°38	12°48
F 14	7 34 23	24° 1'24	8°E 1	16°14	7°17	29°42	12°20	22°30	13°28	11°32	26°31	27°18	25°55	12°44	12°48
S 15	7 38 19	25° 2'29	19°50	17°50	8°27	0°B27	12°28	22°32	13°27	11°32	26°31	27°16	25°52	12°51	12°47
S 16	7 42 16	26° 3'34	1°L41	19°26	9°37	1°11	12°35	22°34	13°26	11°32	26°30	27°13	25°49	12°58	12°47
M17	7 46 12	27° 4'38	13°37	21° 3	10°46	1°56	12°43	22°37	13°24	11°31	26°30	27° 8	25°46	13° 4	12°47
T 18	7 50 9	28° 5'41	25°39	22°40	11°56	2°40	12°52	22°40	13°22	11°31	26°29	27° 2	25°43	13°11	12°46
W19	7 54 6	29° 6'44	7°M50	24°18	13° 5	3°25	13° 0	22°42	13°21	11°31	26°29	26°57	25°39	13°18	12°46
T 20	7 58 2	0°37'46	20°12	25°57	14°14	4° 9	13° 8	22°45	13°19	11°31	26°28	26°51	25°36	13°24	12°46
F 21	8 1 59	1° 8'48	2°A45	27°36	15°23	4°54	13°17	22°48	13°17	11°D31	26°28	26°46	25°33	13°31	12°D46
S 22	8 5 55	2° 9'49	15°34	29°16	16°32	5°38	13°26	22°51	13°16	11°31	26°27	26°43	25°30	13°38	12°46
S 23	8 9 52	3°10'50	28°40	0°356	17°40	6°23	13°35	22°54	13°14	11°31	26°27	26°D42	25°27	13°44	12°46
M24	8 13 48	4°11'51	12°L 7	2°37	18°49	7° 8	13°44	22°57	13°12	11°31	26°27	26°42	25°23	13°51	12°46
T 25	8 17 45	5°12'51	25°56	4°18	19°57	7°52	13°53	23° 1	13°10	11°31	26°26	26°43	25°20	13°58	12°47
W26	8 21 41	6°13'50	10°X 8	6° 1	21° 5	8°37	14° 2	23° 4	13° 8	11°31	26°26	26°45	25°17	14° 4	12°47
T 27	8 25 38	7°14'49	24°42	7°43	22°13	9°22	14°12	23° 8	13° 6	11°32	26°26	26°R46	25°14	14°11	12°47
F 28	8 29 35	8°15'47	9°B35	9°27	23°21	10° 7	14°21	23°11	13° 4	11°32	26°25	26°45	25°11	14°18	12°48
S 29	8 33 31	9°16'44	24°40	11°11	24°28	10°52	14°31	23°15	13° 2	11°32	26°25	26°42	25° 8	14°24	12°48
S 30	8 37 28	10°17'41	9°349	12°56	25°35	11°37	14°41	23°19	13° 0	11°32	26°25	26°38	25° 4	14°31	12°49
M31	8 41 24	11°18'36	24°352	14°341	26°X42	12°B22	14°Y51	23°Y23	12°M58	11°B33	26°B25	26°X31	25°X 1	14°B38	12°B49

Delta T = -5.55 sec.

FEBRUARY 1881

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
T 1	8 45 21	12°19'30	9°X39	16°327	27°X49	13°B 7	15°Y 1	23°Y27	12°R56	11°B33	26°R25	26°R24	24°X58	14°B44	12°B50
W 2	8 49 17	13°20'22	24° 3	18°14	28°56	13°52	15°11	23°31	12°M54	11°33	26°B24	26°X16	24°55	14°51	12°51
T 3	8 53 14	14°21'14	7°Y58	20° 1	0°Y 2	14°37	15°21	23°35	12°52	11°34	26°24	26°10	24°52	14°58	12°51
F 4	8 57 10	15°22'03	21°25	21°48	1° 8	15°22	15°32	23°39	12°50	11°34	26°24	26° 5	24°48	15° 4	12°52
S 5	9 1 7	16°22'52	4°B24	23°36	2°14	16° 7	15°42	23°43	12°47	11°35	26°24	26° 2	24°45	15°11	12°53
S 6	9 5 4	17°23'39	16°58	25°24	3°20	16°52	15°53	23°48	12°45	11°35	26°24	26°D 1	24°42	15°17	12°54
M 7	9 9 0	18°24'24	29°13	27°12	4°25	17°37	16° 3	23°52	12°43	11°36	26°24	26° 2	24°39	15°24	12°55
T 8	9 12 57	19°25'08	11°II13	29° 1	5°30	18°22	16°14	23°57	12°41	11°37	26°24	26° 3	24°36	15°31	12°56
W 9	9 16 53	20°25'51	23° 4	0°X49	6°35	19° 8	16°25	24° 2	12°38	11°37	26°D24	26°R 4	24°33	15°37	12°57
T 10	9 20 50	21°26'31	4°E50	2°37	7°39	19°53	16°36	24° 6	12°36	11°38	26°24	26° 3	24°29	15°44	12°59
F 11	9 24 46	22°27'11	16°37	4°24	8°43	20°38	16°48	24°11	12°33	11°39	26°24	26° 1	24°26	15°51	13° 0
S 12	9 28 43	23°27'48	28°28	6°10	9°47	21°23	16°59	24°16	12°31	11°39	26°24	25°56	24°23	15°57	13° 1
S 13	9 32 39	24°28'24	10°L25	7°55	10°50	22° 9	17°10	24°21	12°29	11°40	26°24	25°48	24°20	16° 4	13° 3
M14	9 36 36	25°28'59	22°30	9°39	11°53	22°54	17°22	24°26	12°26	11°41	26°24	25°38	24°17	16°11	13° 4
T 15	9 40 33	26°29'32	4°M45	11°20	12°56	23°40	17°33	24°31	12°24	11°42	26°24	25°27	24°14	16°17	13° 6
W16	9 44 29	27°30'03	17°11	13° 0	13°59	24°25	17°45	24°36	12°21	11°42	26°25	25°15	24°10	16°24	13° 7
T 17	9 48 26	28°30'33	29°48	14°36	15° 1	25°10	17°57	24°42	12°19	11°43	26°25	25° 4	24° 7	16°31	13° 9
F 18	9 52 22	29°31'02	12°B36	16° 8	16° 2	25°56	18° 8	24°47	12°16	11°44	26°25	24°54	24° 4	16°37	13°11
S 19	9 56 19	0°X31'29	25°35	17°37	17° 3	26°41	18°20	24°53	12°14	11°45	26°25	24°46	24° 1	16°44	13°12
S 20	10 0 15	1°31'55	8°M48	19° 1	18° 4	27°27	18°32	24°58	12°11	11°46	26°25	24°42	23°58	16°51	13°14
M21	10 4 12	2°32'19	22°15	20°19	19° 5	28°13	18°44	25° 4	12° 8	11°47	26°26	24°39	23°54	16°57	13°16
T 22	10 8 8	3°32'42	5°X57	21°32	20° 5	28°58	18°57	25° 9	12° 6	11°48	26°26	24°D39	23°51	17° 4	13°18
W23	10 12 5	4°33'04	19°55	22°38	21° 4	29°44	19° 9	25°15	12° 3	11°49	26°26	24°R39	23°48	17°11	13°20
T 24	10 16 2	5°33'25	4°B10	23°36	22° 3	0°30	19°21	25°21	12° 1	11°51	26°26	24°39	23°45	17°17	13°22
F 25	10 19 58	6°33'44	18°41	24°27	23° 2	1°15	19°33	25°27	11°58	11°52	26°27	24°37	23°42	17°24	13°24
S 26	10 23 55	7°34'02	3°324	25° 9	24° 0	2° 1	19°46	25°33	11°55	11°53	26°27	24°32	23°39	17°31	13°26
S 27	10 27 51	8°34'18	18°13	25°43	24°58	2°47	19°59	25°39	11°53	11°54	26°28	24°25	23°35	17°37	13°29
M28	10 31 48	9°X34'32	3°X 0	26°X 7	25°Y55	3°333	20°Y11	25°Y45	11°M50	11°B55	26°B28	24°X15	23°X32	17°B44	13°B31

Delta T = -5.53 sec.

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SWISS EPHEMERIS for the year 1881

MARCH 1881

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	10 35 44	10 ^h 34'44	17 ^h 37'	26 ^h 22'	26 ^h 51'	4 ^h 18'	20 ^h 24'	25 ^h 51'	11 ^h R48	11 ^h 57'	26 ^h 28'	24 ^h R 3	23 ^h 29'	17 ^h 51'	13 ^h 33'
W 2	10 39 41	11 ^h 34'55	1 ^h 57'	26 ^h R27	27 ^h 47'	5 ^h 4'	20 ^h 37'	25 ^h 57'	11 ^h 45'	11 ^h 58'	26 ^h 29'	23 ^h 51'	23 ^h 26'	17 ^h 57'	13 ^h 36'
T 3	10 43 37	12 ^h 35'03	15 ^h 53'	26 ^h 24'	28 ^h 43'	5 ^h 50'	20 ^h 49'	26 ^h 3'	11 ^h 42'	11 ^h 59'	26 ^h 29'	23 ^h 41'	23 ^h 23'	18 ^h 4'	13 ^h 38'
F 4	10 47 34	13 ^h 35'10	29 ^h 22'	26 ^h 11'	29 ^h 38'	6 ^h 36'	21 ^h 2'	26 ^h 9'	11 ^h 40'	12 ^h 0'	26 ^h 30'	23 ^h 32'	23 ^h 20'	18 ^h 11'	13 ^h 40'
S 5	10 51 31	14 ^h 35'15	12 ^h 25'	25 ^h 49'	0 ^h 32'	7 ^h 22'	21 ^h 15'	26 ^h 16'	11 ^h 37'	12 ^h 2'	26 ^h 30'	23 ^h 26'	23 ^h 16'	18 ^h 17'	13 ^h 43'
S 6	10 55 27	15 ^h 35'17	25 ^h 4'	25 ^h 19'	1 ^h 25'	8 ^h 8'	21 ^h 28'	26 ^h 22'	11 ^h 34'	12 ^h 3'	26 ^h 31'	23 ^h 22'	23 ^h 13'	18 ^h 24'	13 ^h 46'
M 7	10 59 24	16 ^h 35'18	7 ^h 22'	24 ^h 42'	2 ^h 18'	8 ^h 54'	21 ^h 41'	26 ^h 28'	11 ^h 32'	12 ^h 5'	26 ^h 31'	23 ^h 21'	23 ^h 10'	18 ^h 31'	13 ^h 48'
T 8	11 3 20	17 ^h 35'16	19 ^h 24'	23 ^h 58'	3 ^h 10'	9 ^h 39'	21 ^h 55'	26 ^h 35'	11 ^h 29'	12 ^h 6'	26 ^h 32'	23 ^h 20'	23 ^h 7'	18 ^h 37'	13 ^h 51'
W 9	11 7 17	18 ^h 35'12	1 ^h 16'	23 ^h 9'	4 ^h 2'	10 ^h 25'	22 ^h 8'	26 ^h 41'	11 ^h 27'	12 ^h 8'	26 ^h 33'	23 ^h 20'	23 ^h 4'	18 ^h 44'	13 ^h 54'
T 10	11 11 13	19 ^h 35'06	13 ^h 3'	22 ^h 16'	4 ^h 52'	11 ^h 11'	22 ^h 21'	26 ^h 48'	11 ^h 24'	12 ^h 9'	26 ^h 33'	23 ^h 19'	23 ^h 0'	18 ^h 50'	13 ^h 56'
F 11	11 15 10	20 ^h 34'58	24 ^h 52'	21 ^h 20'	5 ^h 42'	11 ^h 57'	22 ^h 34'	26 ^h 55'	11 ^h 21'	12 ^h 11'	26 ^h 34'	23 ^h 16'	22 ^h 57'	18 ^h 57'	13 ^h 59'
S 12	11 19 6	21 ^h 34'47	6 ^h 46'	20 ^h 22'	6 ^h 31'	12 ^h 43'	22 ^h 48'	27 ^h 1'	11 ^h 19'	12 ^h 12'	26 ^h 34'	23 ^h 10'	22 ^h 54'	19 ^h 4'	14 ^h 2'
S 13	11 23 3	22 ^h 34'34	18 ^h 48'	19 ^h 24'	7 ^h 19'	13 ^h 29'	23 ^h 1'	27 ^h 8'	11 ^h 16'	12 ^h 14'	26 ^h 35'	23 ^h 2'	22 ^h 51'	19 ^h 10'	14 ^h 5'
M 14	11 27 0	23 ^h 34'19	1 ^h 11'	18 ^h 27'	8 ^h 7'	14 ^h 15'	23 ^h 15'	27 ^h 15'	11 ^h 14'	12 ^h 15'	26 ^h 36'	22 ^h 50'	22 ^h 48'	19 ^h 17'	14 ^h 8'
T 15	11 30 56	24 ^h 34'02	13 ^h 32'	17 ^h 32'	8 ^h 53'	15 ^h 1'	23 ^h 28'	27 ^h 22'	11 ^h 11'	12 ^h 17'	26 ^h 36'	22 ^h 37'	22 ^h 45'	19 ^h 24'	14 ^h 11'
W 16	11 34 53	25 ^h 33'43	26 ^h 15'	16 ^h 40'	9 ^h 39'	15 ^h 47'	23 ^h 42'	27 ^h 29'	11 ^h 9'	12 ^h 19'	26 ^h 37'	22 ^h 24'	22 ^h 41'	19 ^h 30'	14 ^h 14'
T 17	11 38 49	26 ^h 33'22	9 ^h 11'	15 ^h 53'	10 ^h 23'	16 ^h 34'	23 ^h 55'	27 ^h 35'	11 ^h 6'	12 ^h 20'	26 ^h 38'	22 ^h 10'	22 ^h 38'	19 ^h 37'	14 ^h 17'
F 18	11 42 46	27 ^h 32'59	22 ^h 20'	15 ^h 10'	11 ^h 6'	17 ^h 20'	24 ^h 9'	27 ^h 42'	11 ^h 4'	12 ^h 22'	26 ^h 39'	21 ^h 59'	22 ^h 35'	19 ^h 44'	14 ^h 20'
S 19	11 46 42	28 ^h 32'35	5 ^h 41'	14 ^h 32'	11 ^h 49'	18 ^h 6'	24 ^h 23'	27 ^h 49'	11 ^h 1'	12 ^h 24'	26 ^h 39'	21 ^h 50'	22 ^h 32'	19 ^h 50'	14 ^h 23'
S 20	11 50 39	29 ^h 32'08	19 ^h 11'	14 ^h 0'	12 ^h 30'	18 ^h 52'	24 ^h 37'	27 ^h 56'	10 ^h 59'	12 ^h 26'	26 ^h 40'	21 ^h 44'	22 ^h 29'	19 ^h 57'	14 ^h 26'
M 21	11 54 35	0 ^h 31'40	2 ^h 51'	13 ^h 34'	13 ^h 10'	19 ^h 38'	24 ^h 50'	28 ^h 3'	10 ^h 56'	12 ^h 27'	26 ^h 41'	21 ^h 41'	22 ^h 25'	20 ^h 4'	14 ^h 30'
T 22	11 58 32	1 ^h 31'10	16 ^h 39'	13 ^h 14'	13 ^h 49'	20 ^h 24'	25 ^h 4'	28 ^h 11'	10 ^h 54'	12 ^h 29'	26 ^h 42'	21 ^h D40	22 ^h 22'	20 ^h 10'	14 ^h 33'
W 23	12 2 28	2 ^h 30'38	0 ^h 37'	13 ^h 0'	14 ^h 27'	21 ^h 10'	25 ^h 18'	28 ^h 18'	10 ^h 51'	12 ^h 31'	26 ^h 43'	21 ^h R40	22 ^h 19'	20 ^h 17'	14 ^h 36'
T 24	12 6 25	3 ^h 30'04	14 ^h 42'	12 ^h 52'	15 ^h 3'	21 ^h 56'	25 ^h 32'	28 ^h 25'	10 ^h 49'	12 ^h 33'	26 ^h 44'	21 ^h 39'	22 ^h 16'	20 ^h 24'	14 ^h 40'
F 25	12 10 22	4 ^h 29'29	28 ^h 56'	12 ^h D49	15 ^h 39'	22 ^h 43'	25 ^h 46'	28 ^h 32'	10 ^h 47'	12 ^h 35'	26 ^h 44'	21 ^h 38'	22 ^h 13'	20 ^h 30'	14 ^h 43'
S 26	12 14 18	5 ^h 28'52	13 ^h 16'	12 ^h 53'	16 ^h 12'	23 ^h 29'	26 ^h 0'	28 ^h 39'	10 ^h 44'	12 ^h 37'	26 ^h 45'	21 ^h 33'	22 ^h 10'	20 ^h 37'	14 ^h 46'
S 27	12 18 15	6 ^h 28'13	27 ^h 39'	13 ^h 2'	16 ^h 45'	24 ^h 15'	26 ^h 14'	28 ^h 47'	10 ^h 42'	12 ^h 38'	26 ^h 46'	21 ^h 26'	22 ^h 6'	20 ^h 44'	14 ^h 50'
M 28	12 22 11	7 ^h 27'32	12 ^h 0'	13 ^h 16'	17 ^h 15'	25 ^h 1'	26 ^h 28'	28 ^h 54'	10 ^h 40'	12 ^h 40'	26 ^h 47'	21 ^h 17'	22 ^h 3'	20 ^h 50'	14 ^h 53'
T 29	12 26 8	8 ^h 26'50	26 ^h 13'	13 ^h 36'	17 ^h 45'	25 ^h 47'	26 ^h 42'	29 ^h 1'	10 ^h 38'	12 ^h 42'	26 ^h 48'	21 ^h 5'	22 ^h 0'	20 ^h 57'	14 ^h 57'
W 30	12 30 4	9 ^h 26'05	10 ^h 13'	14 ^h 0'	18 ^h 13'	26 ^h 34'	26 ^h 56'	29 ^h 8'	10 ^h 35'	12 ^h 44'	26 ^h 49'	20 ^h 54'	21 ^h 57'	21 ^h 4'	15 ^h 0'
T 31	12 34 1	10 ^h 25'18	23 ^h 55'	14 ^h 29'	18 ^h 39'	27 ^h 20'	27 ^h 10'	29 ^h 16'	10 ^h 33'	12 ^h 46'	26 ^h 50'	20 ^h R43	21 ^h R54	21 ^h 10'	15 ^h 4'

Delta T = -5.51 sec.

APRIL 1881

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
F 1	12 37 57	11 ^h 24'29	7 ^h 16'	15 ^h 2'	19 ^h 3'	28 ^h 6'	27 ^h 24'	29 ^h 23'	10 ^h R31	12 ^h 48'	26 ^h 51'	20 ^h R34	21 ^h 51'	21 ^h 17'	15 ^h 8'
S 2	12 41 54	12 ^h 23'38	20 ^h 15'	15 ^h 39'	19 ^h 26'	28 ^h 52'	27 ^h 39'	29 ^h 31'	10 ^h 29'	12 ^h 50'	26 ^h 52'	20 ^h R28	21 ^h 47'	21 ^h 24'	15 ^h 11'
S 3	12 45 51	13 ^h 22'45	2 ^h 11'	16 ^h 21'	19 ^h 46'	29 ^h 38'	27 ^h 53'	29 ^h 38'	10 ^h 27'	12 ^h 52'	26 ^h 53'	20 ^h 24'	21 ^h 44'	21 ^h 30'	15 ^h 15'
M 4	12 49 47	14 ^h 21'50	15 ^h 11'	17 ^h 5'	20 ^h 5'	0 ^h 25'	28 ^h 7'	29 ^h 46'	10 ^h 25'	12 ^h 54'	26 ^h 54'	20 ^h D22	21 ^h 41'	21 ^h 37'	15 ^h 19'
T 5	12 53 44	15 ^h 20'52	27 ^h 15'	17 ^h 54'	20 ^h 22'	1 ^h 11'	28 ^h 21'	29 ^h 53'	10 ^h 23'	12 ^h 56'	26 ^h 55'	20 ^h 23'	21 ^h 38'	21 ^h 44'	15 ^h 22'
W 6	12 57 40	16 ^h 19'52	9 ^h 29'	18 ^h 45'	20 ^h 37'	1 ^h 57'	28 ^h 36'	0 ^h 1'	10 ^h 21'	12 ^h 58'	26 ^h 56'	20 ^h 23'	21 ^h 35'	21 ^h 50'	15 ^h 26'
T 7	13 1 37	17 ^h 18'50	20 ^h 58'	19 ^h 40'	20 ^h 50'	2 ^h 43'	28 ^h 50'	0 ^h 8'	10 ^h 19'	13 ^h 0'	26 ^h 57'	20 ^h R23	21 ^h 31'	21 ^h 57'	15 ^h 30'
F 8	13 5 33	18 ^h 17'45	2 ^h 48'	20 ^h 38'	21 ^h 0'	3 ^h 29'	29 ^h 4'	0 ^h 16'	10 ^h 17'	13 ^h 2'	26 ^h 58'	20 ^h 22'	21 ^h 28'	22 ^h 4'	15 ^h 34'
S 9	13 9 30	19 ^h 16'38	14 ^h 44'	21 ^h 38'	21 ^h 9'	4 ^h 16'	29 ^h 18'	0 ^h 23'	10 ^h 15'	13 ^h 4'	26 ^h 59'	20 ^h 19'	21 ^h 25'	22 ^h 10'	15 ^h 38'
S 10	13 13 26	20 ^h 15'29	26 ^h 51'	22 ^h 41'	21 ^h 15'	5 ^h 2'	29 ^h 33'	0 ^h 31'	10 ^h 13'	13 ^h 7'	27 ^h 1'	20 ^h 13'	21 ^h 22'	22 ^h 17'	15 ^h 42'
M 11	13 17 23	21 ^h 14'18	9 ^h 11'	23 ^h 47'	21 ^h 19'	5 ^h 48'	29 ^h 47'	0 ^h 38'	10 ^h 11'	13 ^h 9'	27 ^h 2'	20 ^h 5'	21 ^h 19'	22 ^h 24'	15 ^h 45'
T 12	13 21 20	22 ^h 13'04	21 ^h 50'	24 ^h 55'	21 ^h R20	6 ^h 34'	0 ^h 1'	0 ^h 46'	10 ^h 10'	13 ^h 11'	27 ^h 3'	19 ^h 56'	21 ^h 16'	22 ^h 30'	15 ^h 49'
W 13	13 25 16	23 ^h 11'48	4 ^h 47'	26 ^h 6'	21 ^h 19'	7 ^h 20'	0 ^h 16'	0 ^h 53'	10 ^h 8'	13 ^h 13'	27 ^h 4'	19 ^h 46'	21 ^h 12'	22 ^h 37'	15 ^h 53'
T 14	13 29 13	24 ^h 10'31	18 ^h 1'	27 ^h 19'	21 ^h 16'	8 ^h 7'	0 ^h 30'	1 ^h 1'	10 ^h 6'	13 ^h 15'	27 ^h 5'	19 ^h 36'	21 ^h 9'	22 ^h 44'	15 ^h 57'
F 15	13 33 9	25 ^h 9'11	1 ^h 13'	28 ^h 34'	21 ^h 10'	8 ^h 53'	0 ^h 45'	1 ^h 9'	10 ^h 5'	13 ^h 17'	27 ^h 6'	19 ^h 28'	21 ^h 6'	22 ^h 50'	16 ^h 1'
S 16	13 37 6	26 ^h 7'49	15 ^h 17'	29 ^h 51'	21 ^h 1'	9 ^h 39'	0 ^h 59'	1 ^h 16'	10 ^h 3'	13 ^h 19'	27 ^h 7'	19 ^h 21'	21 ^h 3'		

SWISS EPHEMERIS for the year 1881

MAY 1881

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	14 36 14	10♄44'03	10♄50	23♃0	14°R36	21♃10	4♃35	3♃11	9°R45	13♃53	27♃26	18°R35	20♃15	24♃37	17♃7
M 2	14 40 11	11°42'15	23°4	24°48	13♃58	21°56	4°49	3°19	9♃44	13°55	27°28	18°D34	20°12	24°44	17°11
T 3	14 44 7	12°40'24	5♃6	26°37	13°21	22°42	5°4	3°26	9°43	13°57	27°29	18°R35	20°9	24°50	17°15
W 4	14 48 4	13°38'32	17°0	28°27	12°43	23°28	5°18	3°34	9°43	14°0	27°30	18°37	20°6	24°57	17°19
T 5	14 52 0	14°36'37	28°50	0♃20	12°5	24°14	5°32	3°41	9°42	14°2	27°31	18°39	20°3	25°4	17°24
F 6	14 55 57	15°34'41	10♄41	2°15	11°28	24°59	5°46	3°49	9°41	14°4	27°33	18°R40	19°59	25°10	17°28
S 7	14 59 53	16°32'42	22°38	4°11	10°51	25°45	6°1	3°56	9°41	14°6	27°34	18°40	19°56	25°17	17°32
S 8	15 3 50	17°30'42	4♃45	6°9	10°16	26°31	6°15	4°4	9°40	14°9	27°35	18°38	19°53	25°24	17°36
M 9	15 7 46	18°28'40	17°8	8°9	9°41	27°17	6°29	4°11	9°40	14°11	27°37	18°36	19°50	25°30	17°40
T 10	15 11 43	19°26'36	29°50	10°10	9°8	28°2	6°43	4°19	9°39	14°13	27°38	18°32	19°47	25°37	17°45
W11	15 15 40	20°24'30	12♄53	12°14	8°36	28°48	6°58	4°26	9°39	14°15	27°40	18°28	19°43	25°44	17°49
T 12	15 19 36	21°22'23	26°18	14°18	8°5	29°34	7°12	4°34	9°39	14°18	27°41	18°23	19°40	25°50	17°53
F 13	15 23 33	22°20'14	10♄5	16°25	7°37	0♃19	7°26	4°41	9°38	14°20	27°42	18°20	19°37	25°57	17°57
S 14	15 27 29	23°18'04	24°11	18°32	7°11	1°5	7°40	4°49	9°38	14°22	27°44	18°17	19°34	26°4	18°1
S 15	15 31 26	24°15'52	8♃31	20°41	6°46	1°51	7°54	4°56	9°38	14°24	27°45	18°16	19°31	26°10	18°6
M16	15 35 22	25°13'39	23°1	22°51	6°24	2°36	8°8	5°3	9°38	14°27	27°46	18°D15	19°28	26°17	18°10
T 17	15 39 19	26°11'24	7♃34	25°1	6°4	3°22	8°22	5°11	9°D38	14°29	27°48	18°16	19°24	26°24	18°14
W18	15 43 16	27°9'08	22°6	27°13	5°47	4°7	8°36	5°18	9°38	14°31	27°49	18°17	19°21	26°30	18°18
T 19	15 47 12	28°6'52	6♃31	29°24	5°32	4°53	8°50	5°25	9°38	14°33	27°50	18°19	19°18	26°37	18°22
F 20	15 51 9	29°4'34	20°47	1♄36	5°19	5°38	9°4	5°33	9°38	14°35	27°52	18°20	19°15	26°44	18°26
S 21	15 55 5	0♄11'25	4♃52	3°47	5°9	6°23	9°18	5°40	9°38	14°38	27°53	18°R20	19°12	26°50	18°31
S 22	15 59 2	0°59'55	18°43	5°58	5°1	7°9	9°32	5°47	9°39	14°40	27°54	18°19	19°8	26°57	18°35
M23	16 2 58	1°57'34	2♃21	8°8	4°56	7°54	9°46	5°54	9°39	14°42	27°56	18°18	19°5	27°4	18°39
T 24	16 6 55	2°55'12	15°44	10°17	4°53	8°39	10°0	6°1	9°39	14°44	27°57	18°16	19°2	27°10	18°43
W25	16 10 51	3°52'49	28°53	12°25	4°D52	9°24	10°13	6°8	9°40	14°46	27°58	18°14	18°59	27°17	18°47
T 26	16 14 48	4°50'25	11♄48	14°31	4°54	10°10	10°27	6°15	9°40	14°48	28°0	18°12	18°56	27°24	18°51
F 27	16 18 45	5°48'00	24°29	16°36	4°58	10°55	10°41	6°22	9°40	14°51	28°1	18°10	18°53	27°30	18°55
S 28	16 22 41	6°45'34	6♄57	18°38	5°4	11°40	10°54	6°29	9°41	14°53	28°3	18°10	18°49	27°37	18°59
S 29	16 26 38	7°43'07	19°13	20°39	5°13	12°25	11°8	6°36	9°42	14°55	28°4	18°D9	18°46	27°44	19°3
M30	16 30 34	8°40'39	1♄19	22°37	5°23	13°10	11°22	6°43	9°42	14°57	28°5	18°10	18°43	27°51	19°7
T 31	16 34 31	9°38'10	13♄16	24°33	5♃36	13°55	11♄35	6♄50	9♃43	14°59	28♄7	18♄10	18♄40	27♄57	19♄11

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JUNE 1881

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	16 38 27	10♄35'40	25♃8	26♄27	5♃50	14°R40	11♄48	6♄57	9♃44	15♃1	28♄8	18°R11	18°R37	28♄4	19♄15
T 2	16 42 24	11°33'08	6♄58	28°18	6°7	15°24	12°2	7°4	9°45	15°3	28°9	18°12	18°34	28°11	19°19
F 3	16 46 20	12°30'35	18°49	0♃6	6°25	16°9	12°15	7°11	9°45	15°5	28°11	18°12	18°30	28°17	19°23
S 4	16 50 17	13°28'01	0♄45	1°52	6°46	16°54	12°29	7°17	9°46	15°7	28°12	18°13	18°27	28°24	19°27
S 5	16 54 14	14°25'26	12°52	3°35	7°8	17°39	12°42	7°24	9°47	15°9	28°13	18°R13	18°24	28°31	19°31
M 6	16 58 10	15°22'49	25°13	5°16	7°31	18°23	12°55	7°30	9°48	15°11	28°14	18°13	18°21	28°37	19°35
T 7	17 2 7	16°20'12	7♄53	6°54	7°57	19°8	13°8	7°37	9°49	15°13	28°16	18°13	18°18	28°44	19°39
W 8	17 6 3	17°17'33	20°55	8°29	8°24	19°52	13°21	7°44	9°51	15°15	28°17	18°13	18°14	28°51	19°43
T 9	17 10 0	18°14'54	4♄22	10°1	8°52	20°37	13°34	7°50	9°52	15°17	28°18	18°D13	18°11	28°57	19°47
F 10	17 13 56	19°12'13	18°14	11°31	9°22	21°21	13°47	7°56	9°53	15°19	28°20	18°13	18°8	29°4	19°51
S 11	17 17 53	20°9'32	2♃30	12°58	9°53	22°5	14°0	8°3	9°54	15°21	28°21	18°13	18°5	29°11	19°54
S 12	17 21 49	21°6'50	17°7	14°22	10°26	22°50	14°13	8°9	9°56	15°23	28°22	18°R13	18°2	29°17	19°58
M13	17 25 46	22°4'07	1♄57	15°43	11°0	23°34	14°26	8°15	9°57	15°25	28°23	18°13	17°59	29°24	20°2
T 14	17 29 43	23°1'24	16°55	17°2	11°36	24°18	14°39	8°22	9°58	15°27	28°25	18°12	17°55	29°31	20°6
W15	17 33 39	23°58'40	1♄51	18°17	12°12	25°2	14°51	8°28	10°0	15°29	28°26	18°12	17°52	29°37	20°9
T 16	17 37 36	24°55'56	16°38	19°29	12°50	25°46	15°4	8°34	10°1	15°31	28°27	18°11	17°49	29°44	20°13
F 17	17 41 32	25°53'11	1♄9	20°39	13°29	26°30	15°16	8°40	10°3	15°32	28°28	18°11	17°46	29°51	20°17
S 18	17 45 29	26°50'26	15°22	21°45	14°9	27°14	15°29	8°46	10°5	15°34	28°30	18°10	17°43	29°57	20°20
S 19	17 49 25	27°47'41	29°13	22°48	14°50	27°58	15°41	8°52	10°6	15°36	28°31	18°D10	17°40	0♄4	20°24
M20	17 53 22	28°44'56	12♃43	23°48	15°32	28°42	15°54	8°58	10°8	15°38	28°32	18°10	17°36	0°11	20°27
T 21	17 57 18	29°42'11	25°53	24°45	16°15	29°25	16°6	9°3	10°10	15°40	28°33	18°11	17°33	0°17	20°31
W22	18 1 15	0♄39'25	8♄45	25°38	16°59	0♃9	16°18	9°9	10°12	15°41	28°34	18°12	17°30	0°24	20°34
T 23	18 5 12	1°36'40	21°22	26°27	17°44	0°52	16°30	9°15	10°13	15°43	28°36	18°13	17°27	0°31	20°38
F 24	18 9 8	2°33'54	3♄45	27°13	18°29	1°36	16°42	9°20	10°15	15°45	28°37	18°14	17°24	0°38	20°41
S 25	18 13 5	3°31'09	15°57	27°55	19°16	2°19	16°54	9°26	10°17	15°46	28°38	18°R14	17°20	0°44	20°45
S 26	18 17 1	4°28'23	28°1	28°33	20°3	3°3	17°6	9°32	10°19	15°48	28°39	18°14	17°17	0°51	20°48
M27	18 20 58	5°25'37	9♄58	29°8	20°51	3°46	17°18	9°37	10°21	15°50	28°40	18°13	17°14	0°58	20°51
T 28	18 24 54	6°22'50	21°50	29°38	21°40	4°29	17°29	9°42	10°24	15°51	28°41	18°11	17°11	1°4	20°55
W29	18 28 51	7°20'04	3♄40	0♄4	22°29	5°12	17°41	9°48	10°26	15°53	28°42	18°8	17°8	1°11	20°58
T 30	18 32 47	8♄17'17	15♄30	0♄25	23♄19	5♄55	17♄53	9♄53	10♄28	15°54	28♄44	18♄5	17♄5	1♄18	21♄1

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SWISS EPHEMERIS for the year 1881

JULY 1881

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	18 36 44	9 ^h 14'30	27 ^h 02'	0 ^h 04'	24 ^h 08'	6 ^h 38'	18 ^h 04'	9 ^h 58'	10 ^h 30'	15 ^h 56'	28 ^h 45'	18 ^h R 2	17 ^h 17'	1 ^h 02'	21 ^h 08'
S 2	18 40 41	10 ^h 11'43	9 ^h 19'	0 ^h 55'	25 ^h 2'	7 ^h 21'	18 ^h 15'	10 ^h 3'	10 ^h 32'	15 ^h 57'	28 ^h 46'	17 ^h 17'	16 ^h 58'	1 ^h 31'	21 ^h 7'
S 3	18 44 37	11 ^h 8'55	21 ^h 26'	1 ^h 3'	25 ^h 54'	8 ^h 4'	18 ^h 27'	10 ^h 8'	10 ^h 35'	15 ^h 59'	28 ^h 47'	17 ^h 57'	16 ^h 55'	1 ^h 38'	21 ^h 10'
M 4	18 48 34	12 ^h 6'07	3 ^h 45'	1 ^h R 6'	26 ^h 46'	8 ^h 46'	18 ^h 38'	10 ^h 13'	10 ^h 37'	16 ^h 0'	28 ^h 48'	17 ^h 56'	16 ^h 52'	1 ^h 44'	21 ^h 13'
T 5	18 52 30	13 ^h 3'19	16 ^h 21'	1 ^h 5'	27 ^h 39'	9 ^h 29'	18 ^h 49'	10 ^h 18'	10 ^h 39'	16 ^h 2'	28 ^h 49'	17 ^h D55	16 ^h 49'	1 ^h 51'	21 ^h 16'
W 6	18 56 27	14 ^h 0'31	29 ^h 18'	0 ^h 58'	28 ^h 33'	10 ^h 12'	19 ^h 0'	10 ^h 22'	10 ^h 42'	16 ^h 3'	28 ^h 50'	17 ^h 56'	16 ^h 46'	1 ^h 58'	21 ^h 19'
T 7	19 0 23	14 ^h 57'42	12 ^h 04'	0 ^h 48'	29 ^h 27'	10 ^h 54'	19 ^h 11'	10 ^h 27'	10 ^h 44'	16 ^h 4'	28 ^h 51'	17 ^h 57'	16 ^h 42'	2 ^h 4'	21 ^h 22'
F 8	19 4 20	15 ^h 54'54	26 ^h 27'	0 ^h 32'	0 ^h II 22'	11 ^h 36'	19 ^h 21'	10 ^h 32'	10 ^h 47'	16 ^h 6'	28 ^h 52'	17 ^h 59'	16 ^h 39'	2 ^h 11'	21 ^h 25'
S 9	19 8 16	16 ^h 52'05	10 ^h 14'	0 ^h 13'	1 ^h 18'	12 ^h 19'	19 ^h 32'	10 ^h 36'	10 ^h 49'	16 ^h 7'	28 ^h 53'	18 ^h R 0	16 ^h 36'	2 ^h 18'	21 ^h 28'
S 10	19 12 13	17 ^h 49'17	25 ^h 22'	29 ^h 04'	2 ^h 13'	13 ^h 1'	19 ^h 43'	10 ^h 41'	10 ^h 52'	16 ^h 8'	28 ^h 54'	18 ^h 0	16 ^h 33'	2 ^h 24'	21 ^h 31'
M 11	19 16 10	18 ^h 46'29	10 ^h 32'	29 ^h 21'	3 ^h 10'	13 ^h 43'	19 ^h 53'	10 ^h 45'	10 ^h 55'	16 ^h 10'	28 ^h 55'	17 ^h 58'	16 ^h 30'	2 ^h 31'	21 ^h 33'
T 12	19 20 6	19 ^h 43'41	25 ^h 32'	28 ^h 50'	4 ^h 6'	14 ^h 25'	20 ^h 4'	10 ^h 49'	10 ^h 57'	16 ^h 11'	28 ^h 56'	17 ^h 56'	16 ^h 26'	2 ^h 38'	21 ^h 36'
W 13	19 24 3	20 ^h 40'53	10 ^h 46'	28 ^h 16'	5 ^h 3'	15 ^h 7'	20 ^h 14'	10 ^h 54'	11 ^h 0'	16 ^h 12'	28 ^h 56'	17 ^h 52'	16 ^h 23'	2 ^h 45'	21 ^h 39'
T 14	19 27 59	21 ^h 38'05	25 ^h 51'	27 ^h 39'	6 ^h 1'	15 ^h 48'	20 ^h 24'	10 ^h 58'	11 ^h 3'	16 ^h 13'	28 ^h 57'	17 ^h 47'	16 ^h 20'	2 ^h 51'	21 ^h 41'
F 15	19 31 56	22 ^h 35'18	10 ^h 14'	27 ^h 1'	6 ^h 59'	16 ^h 30'	20 ^h 34'	11 ^h 2'	11 ^h 5'	16 ^h 14'	28 ^h 58'	17 ^h 42'	16 ^h 17'	2 ^h 58'	21 ^h 44'
S 16	19 35 52	23 ^h 32'32	25 ^h 6'	26 ^h 21'	7 ^h 57'	17 ^h 12'	20 ^h 44'	11 ^h 6'	11 ^h 8'	16 ^h 16'	28 ^h 59'	17 ^h 39'	16 ^h 14'	3 ^h 5'	21 ^h 46'
S 17	19 39 49	24 ^h 29'46	9 ^h 4'	25 ^h 40'	8 ^h 56'	17 ^h 53'	20 ^h 54'	11 ^h 10'	11 ^h 11'	16 ^h 17'	29 ^h 0	17 ^h 36'	16 ^h 11'	3 ^h 11'	21 ^h 49'
M 18	19 43 45	25 ^h 27'01	22 ^h 36'	24 ^h 59'	9 ^h 55'	18 ^h 35'	21 ^h 4'	11 ^h 13'	11 ^h 14'	16 ^h 18'	29 ^h 1	17 ^h D35	16 ^h 7'	3 ^h 18'	21 ^h 51'
T 19	19 47 42	26 ^h 24'17	5 ^h 42'	24 ^h 19'	10 ^h 55'	19 ^h 16'	21 ^h 13'	11 ^h 17'	11 ^h 17'	16 ^h 19'	29 ^h 2	17 ^h 35'	16 ^h 4'	3 ^h 25'	21 ^h 54'
W 20	19 51 39	27 ^h 21'34	18 ^h 26'	23 ^h 41'	11 ^h 54'	19 ^h 57'	21 ^h 23'	11 ^h 21'	11 ^h 20'	16 ^h 20'	29 ^h 2	17 ^h 37'	16 ^h 1'	3 ^h 31'	21 ^h 56'
T 21	19 55 35	28 ^h 18'51	0 ^h II 52'	23 ^h 4'	12 ^h 55'	20 ^h 38'	21 ^h 32'	11 ^h 24'	11 ^h 23'	16 ^h 21'	29 ^h 3	17 ^h 38'	15 ^h 58'	3 ^h 38'	21 ^h 58'
F 22	19 59 32	29 ^h 16'10	13 ^h 4'	22 ^h 31'	13 ^h 55'	21 ^h 19'	21 ^h 41'	11 ^h 28'	11 ^h 26'	16 ^h 22'	29 ^h 4	17 ^h R39	15 ^h 55'	3 ^h 45'	22 ^h 0
S 23	20 3 28	0 ^h 13'29	25 ^h 6'	22 ^h 1'	14 ^h 56'	22 ^h 0	21 ^h 51'	11 ^h 31'	11 ^h 29'	16 ^h 23'	29 ^h 5	17 ^h 39'	15 ^h 52'	3 ^h 51'	22 ^h 3
S 24	20 7 25	1 ^h 10'49	7 ^h 1'	21 ^h 35'	15 ^h 57'	22 ^h 41'	22 ^h 0	11 ^h 34'	11 ^h 32'	16 ^h 23'	29 ^h 5	17 ^h 37'	15 ^h 48'	3 ^h 58'	22 ^h 5
M 25	20 11 21	2 ^h 8'10	18 ^h 51'	21 ^h 14'	16 ^h 59'	23 ^h 22'	22 ^h 8	11 ^h 37'	11 ^h 35'	16 ^h 24'	29 ^h 6	17 ^h 33'	15 ^h 45'	4 ^h 5'	22 ^h 7
T 26	20 15 18	3 ^h 5'31	0 ^h 14'	20 ^h 57'	18 ^h 0	24 ^h 2	22 ^h 17'	11 ^h 40'	11 ^h 38'	16 ^h 25'	29 ^h 7	17 ^h 27'	15 ^h 42'	4 ^h 11'	22 ^h 9
W 27	20 19 15	4 ^h 2'53	12 ^h 31'	20 ^h 46'	19 ^h 2	24 ^h 43'	22 ^h 26'	11 ^h 43'	11 ^h 41'	16 ^h 26'	29 ^h 8	17 ^h 19'	15 ^h 39'	4 ^h 18'	22 ^h 11
T 28	20 23 11	5 ^h 0'16	24 ^h 23'	20 ^h D41	20 ^h 5	25 ^h 23'	22 ^h 34'	11 ^h 46'	11 ^h 44'	16 ^h 27'	29 ^h 8	17 ^h 10'	15 ^h 36'	4 ^h 25'	22 ^h 12
F 29	20 27 8	5 ^h 57'40	6 ^h 19'	20 ^h 41'	21 ^h 7	26 ^h 3	22 ^h 43'	11 ^h 49'	11 ^h 48'	16 ^h 27'	29 ^h 9	17 ^h 1	15 ^h 32'	4 ^h 32'	22 ^h 14
S 30	20 31 4	6 ^h 55'04	18 ^h 21'	20 ^h 48'	22 ^h 10'	26 ^h 43'	22 ^h 51'	11 ^h 52'	11 ^h 51'	16 ^h 28'	29 ^h 9	16 ^h 53'	15 ^h 29'	4 ^h 38'	22 ^h 16
S 31	20 35 1	7 ^h 52'29	0 ^h 32'	21 ^h 1	23 ^h II 13'	27 ^h 03'	22 ^h 59'	11 ^h 54'	11 ^h 54'	16 ^h 29'	29 ^h 10	16 ^h 46'	15 ^h 26'	4 ^h 45'	22 ^h 18

Delta T = -5.42 sec.

AUGUST 1881

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	20 38 57	8 ^h 09'55	12 ^h 53'	21 ^h 21'	24 ^h II 17'	28 ^h 3	23 ^h 7	11 ^h 57'	11 ^h 57'	16 ^h 29'	29 ^h 11	16 ^h R40	15 ^h 17'	4 ^h 05'	22 ^h 19
T 2	20 42 54	9 ^h 47'21	25 ^h 29'	21 ^h 47'	25 ^h 20'	28 ^h 43'	23 ^h 15'	11 ^h 59'	12 ^h 1	16 ^h 30'	29 ^h 11	16 ^h 37'	15 ^h 20'	4 ^h 58'	22 ^h 21
W 3	20 46 50	10 ^h 44'48	8 ^h 11'	22 ^h 19'	26 ^h 24'	29 ^h 22'	23 ^h 22'	12 ^h 2	12 ^h 4	16 ^h 31'	29 ^h 12	16 ^h D36	15 ^h 17'	5 ^h 5	22 ^h 23
T 4	20 50 47	11 ^h 42'16	21 ^h 36'	22 ^h 58'	27 ^h 28'	0 ^h II 2	23 ^h 30'	12 ^h 4	12 ^h 7	16 ^h 31'	29 ^h 12	16 ^h 36'	15 ^h 13'	5 ^h 12'	22 ^h 24
F 5	20 54 43	12 ^h 39'44	5 ^h 15'	23 ^h 43'	28 ^h 32'	0 ^h 41'	23 ^h 37'	12 ^h 6	12 ^h 11	16 ^h 32'	29 ^h 13	16 ^h 37'	15 ^h 10'	5 ^h 18'	22 ^h 26
S 6	20 58 40	13 ^h 37'13	19 ^h 20'	24 ^h 35'	29 ^h 37'	1 ^h 20	23 ^h 44'	12 ^h 8	12 ^h 14	16 ^h 32'	29 ^h 13	16 ^h R38	15 ^h 7'	5 ^h 25'	22 ^h 27
S 7	21 2 37	14 ^h 34'44	3 ^h 51'	25 ^h 32'	0 ^h 54'	1 ^h 59	23 ^h 52'	12 ^h 10	12 ^h 18	16 ^h 33'	29 ^h 14	16 ^h 37'	15 ^h 4	5 ^h 32'	22 ^h 28
M 8	21 6 33	15 ^h 32'15	18 ^h 44'	26 ^h 36'	1 ^h 46'	2 ^h 38	23 ^h 58'	12 ^h 11	12 ^h 21	16 ^h 33'	29 ^h 14	16 ^h 33'	15 ^h 1	5 ^h 38'	22 ^h 30
T 9	21 10 30	16 ^h 29'46	3 ^h 55'	27 ^h 46'	2 ^h 52'	3 ^h 17	24 ^h 5	12 ^h 13	12 ^h 25	16 ^h 33'	29 ^h 15	16 ^h 27'	14 ^h 58'	5 ^h 45'	22 ^h 31
W 10	21 14 26	17 ^h 27'19	19 ^h 10'	29 ^h 1	3 ^h 57'	3 ^h 56	24 ^h 12'	12 ^h 15	12 ^h 28	16 ^h 34'	29 ^h 15	16 ^h 20'	14 ^h 54'	5 ^h 52'	22 ^h 32
T 11	21 18 23	18 ^h 24'53	4 ^h 23'	0 ^h II 22'	5 ^h 2	4 ^h 34	24 ^h 18'	12 ^h 16	12 ^h 32	16 ^h 34'	29 ^h 15	16 ^h 11'	14 ^h 51'	5 ^h 59'	22 ^h 33
F 12	21 22 19	19 ^h 22'29	1 ^h 48'	6 ^h 8	5 ^h 13	5 ^h 13	24 ^h 25'	12 ^h 18	12 ^h 35	16 ^h 34'	29 ^h 16	16 ^h 2	14 ^h 48'	6 ^h 5	22 ^h 34
S 13	21 26 16	20 ^h 20'05	3 ^h 58'	3 ^h 18	7 ^h 14	5 ^h 51	24 ^h 31'	12 ^h 19	12 ^h 39	16 ^h 34'	29 ^h 16	15 ^h 54'	14 ^h 45'		

SWISS EPHEMERIS for the year 1881

SEPTEMBER 1881

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	22 41 10	8♍39'41	1♌21	9♍13	28♄39	17♂27	25♄55	12°R23	13♍49	16°R33	29°R19	14°R 0	13♌44	8♌19	22°R41
F 2	22 45 7	9°37'49	14°53	11° 8	29°48	18° 2	25°58	12♄22	13°52	16♄32	29♄19	14♄ 0	13°41	8°26	22♄41
S 3	22 49 4	10°35'58	28°47	13° 2	0♌58	18°36	26° 0	12°21	13°56	16°32	29°19	13°59	13°38	8°33	22°41
S 4	22 53 0	11°34'08	13♄ 4	14°54	2° 7	19°11	26° 2	12°20	14° 0	16°31	29°19	13°58	13°35	8°39	22°40
M 5	22 56 57	12°32'20	27°41	16°46	3°16	19°45	26° 5	12°19	14° 4	16°31	29°18	13°53	13°32	8°46	22°40
T 6	23 0 53	13°30'33	12♄36	18°36	4°26	20°19	26° 6	12°18	14° 8	16°30	29°18	13°46	13°29	8°53	22°39
W 7	23 4 50	14°28'48	27°39	20°25	5°36	20°53	26° 8	12°16	14°11	16°30	29°18	13°37	13°25	8°59	22°39
T 8	23 8 46	15°27'05	12♄44	22°13	6°46	21°27	26° 9	12°15	14°15	16°29	29°18	13°26	13°22	9° 6	22°38
F 9	23 12 43	16°25'23	27°38	24° 0	7°56	22° 0	26°11	12°13	14°19	16°29	29°18	13°15	13°19	9°13	22°37
S 10	23 16 39	17°23'43	12♄13	25°46	9° 6	22°33	26°12	12°12	14°23	16°28	29°17	13° 4	13°16	9°19	22°37
S 11	23 20 36	18°22'05	26°23	27°30	10°16	23° 6	26°13	12°10	14°26	16°27	29°17	12°56	13°13	9°26	22°36
M12	23 24 33	19°20'29	10♄ 5	29°14	11°26	23°39	26°13	12° 8	14°30	16°26	29°17	12°50	13° 9	9°33	22°35
T 13	23 28 29	20°18'56	23°18	0♄56	12°37	24°11	26°14	12° 6	14°34	16°26	29°17	12°47	13° 6	9°39	22°34
W14	23 32 26	21°17'24	6♂ 5	2°37	13°47	24°43	26°14	12° 4	14°38	16°25	29°16	12°46	13° 3	9°46	22°33
T 15	23 36 22	22°15'55	18°30	4°18	14°58	25°15	26°R14	12° 2	14°41	16°24	29°16	12°46	13° 0	9°53	22°32
F 16	23 40 19	23°14'28	0♄39	5°57	16° 9	25°47	26°14	12° 0	14°45	16°23	29°16	12°46	12°57	10° 0	22°31
S 17	23 44 15	24°13'03	12°36	7°35	17°20	26°19	26°14	11°57	14°49	16°22	29°15	12°45	12°54	10° 6	22°29
S 18	23 48 12	25°11'40	24°26	9°12	18°31	26°50	26°13	11°55	14°53	16°22	29°15	12°41	12°50	10°13	22°28
M19	23 52 8	26°10'19	6♌16	10°48	19°42	27°21	26°12	11°52	14°56	16°21	29°14	12°35	12°47	10°20	22°27
T 20	23 56 5	27° 9'01	18° 7	12°24	20°53	27°52	26°11	11°50	15° 0	16°20	29°14	12°27	12°44	10°26	22°26
W21	0 0 2	28° 7'45	0♍ 5	13°58	22° 5	28°22	26°10	11°47	15° 4	16°19	29°14	12°16	12°41	10°33	22°24
T 22	0 3 58	29° 6'30	12°11	15°31	23°16	28°52	26° 9	11°44	15° 8	16°18	29°13	12° 3	12°38	10°40	22°23
F 23	0 7 55	0♄ 5'18	24°26	17° 3	24°28	29°22	26° 7	11°41	15°11	16°17	29°13	11°50	12°35	10°46	22°21
S 24	0 11 51	1° 4'08	6♄51	18°35	25°39	29°52	26° 6	11°38	15°15	16°16	29°12	11°37	12°31	10°53	22°19
S 25	0 15 48	2° 2'59	19°27	20° 5	26°51	0♄21	26° 4	11°35	15°19	16°14	29°12	11°26	12°28	11° 0	22°18
M26	0 19 44	3° 1'53	2♌14	21°34	28° 3	0°50	26° 2	11°32	15°22	16°13	29°11	11°18	12°25	11° 7	22°16
T 27	0 23 41	4° 0'49	15°11	23° 3	29°15	1°18	25°59	11°29	15°26	16°12	29°10	11°13	12°22	11°13	22°14
W28	0 27 37	4°59'46	28°21	24°30	0♍27	1°47	25°57	11°26	15°30	16°11	29°10	11°10	12°19	11°20	22°12
T 29	0 31 34	5°58'46	11♌42	25°57	1°39	2°15	25°54	11°22	15°33	16°10	29° 9	11°D 9	12°15	11°27	22°11
F 30	0 35 30	6♄57'47	25♌18	27°22	2♍51	2♄42	25♄51	11♄19	15♍37	16♄ 9	29♄ 9	11♄10	12♌12	11♌33	22♄ 9

Delta T = -5.38 sec.

OCTOBER 1881

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	0 39 27	7♄56'49	9♄ 8	28♄47	4♍ 3	3♄10	25°R48	11°R15	15♍40	16°R 7	29°R 8	11°R10	12♌ 9	11♌40	22°R 7
S 2	0 43 24	8°55'54	23°14	0♌11	5°15	3°37	25♄44	11♄11	15°44	16♄ 6	29♄ 7	11♄ 9	12° 6	11°47	22♄ 5
M 3	0 47 20	9°55'00	7♄34	1°33	6°28	4° 3	25°41	11° 8	15°47	16° 5	29° 7	11° 6	12° 3	11°54	22° 3
T 4	0 51 17	10°54'08	22° 7	2°54	7°40	4°29	25°37	11° 4	15°51	16° 4	29° 6	11° 1	12° 0	12° 0	22° 0
W 5	0 55 13	11°53'18	6♄47	4°15	8°53	4°55	25°33	11° 0	15°54	16° 2	29° 5	10°53	11°56	12° 7	21°58
T 6	0 59 10	12°52'29	21°28	5°34	10° 5	5°21	25°29	10°56	15°58	16° 1	29° 5	10°44	11°53	12°14	21°56
F 7	1 3 6	13°51'43	6♄ 2	6°52	11°18	5°46	25°25	10°52	16° 1	16° 0	29° 4	10°35	11°50	12°20	21°54
S 8	1 7 3	14°50'58	20°23	8° 8	12°31	6°11	25°21	10°48	16° 5	15°58	29° 3	10°27	11°47	12°27	21°51
S 9	1 10 59	15°50'16	4♄24	9°23	13°44	6°35	25°16	10°44	16° 8	15°57	29° 2	10°20	11°44	12°34	21°49
M10	1 14 56	16°49'36	18° 1	10°37	14°57	6°59	25°11	10°40	16°12	15°55	29° 2	10°15	11°40	12°40	21°47
T 11	1 18 53	17°48'58	1♂14	11°49	16°10	7°23	25° 6	10°36	16°15	15°54	29° 1	10°13	11°37	12°47	21°44
W12	1 22 49	18°48'22	14° 2	12°59	17°23	7°46	25° 1	10°31	16°18	15°53	29° 0	10°D13	11°34	12°54	21°42
T 13	1 26 46	19°47'49	26°30	14° 7	18°36	8° 9	24°56	10°27	16°22	15°51	28°59	10°14	11°31	13° 1	21°39
F 14	1 30 42	20°47'18	8♄41	15°14	19°49	8°31	24°50	10°23	16°25	15°50	28°58	10°15	11°28	13° 7	21°37
S 15	1 34 39	21°46'49	20°40	16°18	21° 2	8°53	24°45	10°18	16°28	15°48	28°57	10°R16	11°25	13°14	21°34
S 16	1 38 35	22°46'22	2♌33	17°19	22°16	9°15	24°39	10°14	16°31	15°47	28°57	10°15	11°21	13°21	21°31
M17	1 42 32	23°45'58	14°24	18°19	23°29	9°36	24°33	10° 9	16°35	15°45	28°56	10°13	11°18	13°27	21°29
T 18	1 46 28	24°45'36	26°18	19°15	24°43	9°56	24°27	10° 5	16°38	15°44	28°55	10° 8	11°15	13°34	21°26
W19	1 50 25	25°45'16	8♍19	20° 8	25°56	10°16	24°21	10° 0	16°41	15°42	28°54	10° 2	11°12	13°41	21°23
T 20	1 54 22	26°44'58	20°31	20°57	27°10	10°36	24°14	9°56	16°44	15°40	28°53	9°55	11° 9	13°48	21°20
F 21	1 58 18	27°44'43	2♄56	21°42	28°24	10°55	24° 8	9°51	16°47	15°39	28°52	9°47	11° 6	13°54	21°18
S 22	2 2 15	28°44'29	15°35	22°24	29°37	11°13	24° 1	9°46	16°50	15°37	28°51	9°39	11° 2	14° 1	21°15
S 23	2 6 11	29°44'18	28°28	23° 0	0♄51	11°31	23°54	9°42	16°53	15°36	28°50	9°32	10°59	14° 8	21°12
M24	2 10 8	0♌44'09	11♌36	23°31	2° 5	11°48	23°48	9°37	16°56	15°34	28°49	9°28	10°56	14°14	21° 9
T 25	2 14 4	1°44'01	24°56	23°56	3°19	12° 5	23°41	9°32	16°59	15°32	28°48	9°25	10°53	14°21	21° 6
W26	2 18 1	2°43'56	8♌28	24°15	4°33	12°21	23°33	9°27	17° 2	15°31	28°47	9°D24	10°50	14°28	21° 3
T 27	2 21 57	3°43'52	22°11	24°27	5°47	12°37	23°26	9°23	17° 5	15°29	28°46	9°24	10°46	14°34	21° 0
F 28	2 25 54	4°43'50	6♄ 2	24°R31	7° 1	12°52	23°19	9°18	17° 8	15°27	28°45	9°26	10°43	14°41	20°57
S 29	2 29 51	5°43'50	20° 1	24°27	8°15	13° 7	23°11	9°13	17°11	15°26	28°44	9°27	10°40	14°48	20°54
S 30	2 33 47	6°43'51	4♄ 6	24°14	9°29	13°21	23° 4	9° 8	17°14	15°24	28°43	9°R28	10°37	14°55	20°51
M31	2 37 44	7♌43'54	18♌18	23♌51	10♄44	13♄34	22♄56	9♄ 3	17♍16	15♄22	28♄42	9♄28	10♌34	15♌ 1	20♄48

Delta T = -5.36 sec.

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SWISS EPHEMERIS for the year 1881

NOVEMBER 1881

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	2 41 40	8M43'58	2X32	23°R20	11Ω58	13Ω47	22°R49	8°R58	17M19	15°R21	28°R41	9°R26	10X31	15Ω 8	20°R45	
W 2	2 45 37	9°44'03	16°48	22M38	13°12	13°59	22B41	8B54	17°22	15B19	28B40	9X23	10°27	15°15	20B42	
T 3	2 49 33	10°44'11	1Y 1	21°48	14°26	14°10	22°33	8°49	17°24	15°17	28°39	9°18	10°24	15°21	20°38	
F 4	2 53 30	11°44'20	15° 6	20°48	15°41	14°21	22°25	8°44	17°27	15°16	28°38	9°14	10°21	15°28	20°35	
S 5	2 57 26	12°44'30	29° 1	19°41	16°55	14°31	22°17	8°39	17°29	15°14	28°37	9°10	10°18	15°35	20°32	
S 6	3 1 23	13°44'43	12B40	18°28	18°10	14°40	22° 9	8°34	17°32	15°12	28°36	9° 7	10°15	15°42	20°29	
M 7	3 5 20	14°44'57	26° 2	17°10	19°24	14°49	22° 1	8°29	17°34	15°11	28°35	9° 5	10°12	15°48	20°26	
T 8	3 9 16	15°45'13	9II 5	15°50	20°39	14°57	21°53	8°25	17°37	15° 9	28°33	9°D 5	10° 8	15°55	20°23	
W 9	3 13 13	16°45'31	21°49	14°31	21°53	15° 4	21°45	8°20	17°39	15° 7	28°32	9° 5	10° 5	16° 2	20°19	
T 10	3 17 9	17°45'50	4B16	13°15	23° 8	15°10	21°37	8°15	17°42	15° 6	28°31	9° 6	10° 2	16° 8	20°16	
F 11	3 21 6	18°46'12	16°28	12° 5	24°23	15°16	21°29	8°10	17°44	15° 4	28°30	9° 8	9°59	16°15	20°13	
S 12	3 25 2	19°46'36	28°28	11° 2	25°37	15°21	21°20	8° 6	17°46	15° 2	28°29	9°10	9°56	16°22	20°10	
S 13	3 28 59	20°47'01	10Ω22	10° 9	26°52	15°25	21°12	8° 1	17°48	15° 1	28°28	9°11	9°52	16°29	20° 7	
M14	3 32 55	21°47'28	22°14	9°27	28° 7	15°28	21° 4	7°57	17°50	14°59	28°27	9°R11	9°49	16°35	20° 3	
T 15	3 36 52	22°47'57	4M 8	8°56	29°21	15°31	20°56	7°52	17°53	14°57	28°26	9°11	9°46	16°42	20° 0	
W16	3 40 49	23°48'28	16°10	8°36	0M36	15°33	20°48	7°47	17°55	14°56	28°25	9° 9	9°43	16°49	19°57	
T 17	3 44 45	24°49'01	28°24	8°D29	1°51	15°34	20°40	7°43	17°57	14°54	28°23	9° 8	9°40	16°55	19°54	
F 18	3 48 42	25°49'35	10Ω53	8°32	3° 6	15°R34	20°31	7°38	17°59	14°52	28°22	9° 6	9°37	17° 2	19°51	
S 19	3 52 38	26°50'11	23°40	8°46	4°21	15°33	20°23	7°34	18° 1	14°51	28°21	9° 4	9°33	17° 9	19°48	
S 20	3 56 35	27°50'49	6M47	9°10	5°36	15°31	20°15	7°30	18° 2	14°49	28°20	9° 2	9°30	17°16	19°44	
M21	4 0 31	28°51'28	20°13	9°42	6°51	15°29	20° 7	7°25	18° 4	14°47	28°19	9° 1	9°27	17°22	19°41	
T 22	4 4 28	29°52'09	3X57	10°23	8° 6	15°25	19°59	7°21	18° 6	14°46	28°18	9°D 1	9°24	17°29	19°38	
W23	4 8 24	0X52'51	17°56	11°10	9°21	15°21	19°51	7°17	18° 8	14°44	28°17	9° 1	9°21	17°36	19°35	
T 24	4 12 21	1°53'35	2B 7	12° 4	10°36	15°16	19°44	7°12	18° 9	14°42	28°16	9° 1	9°18	17°42	19°32	
F 25	4 16 18	2°54'20	16°25	13° 3	11°51	15°10	19°36	7° 8	18°11	14°41	28°14	9° 2	9°14	17°49	19°29	
S 26	4 20 14	3°55'06	0X46	14° 6	13° 6	15° 3	19°28	7° 4	18°13	14°39	28°13	9° 2	9°11	17°56	19°26	
S 27	4 24 11	4°55'52	15° 6	15°14	14°21	14°56	19°20	7° 0	18°14	14°38	28°12	9° 3	9° 8	18° 3	19°23	
M28	4 28 7	5°56'40	29°21	16°26	15°36	14°47	19°13	6°56	18°16	14°36	28°11	9° 3	9° 5	18° 9	19°19	
T 29	4 32 4	6°57'28	13X29	17°40	16°51	14°38	19° 6	6°53	18°17	14°35	28°10	9°R 3	9° 2	18°16	19°16	
W30	4 36 0	7X58'18	27X29	18M57	18M 6	14Ω28	18B58	6B49	18M18	14B33	28B 9	9X 3	8X58	18Ω23	19B13	

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DECEMBER 1881

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	4 39 57	8X59'08	11Y19	20M16	19M22	14°R17	18°R51	6°R45	18M20	14°R32	28°R 8	9X 3	8X55	18Ω29	19°R10	
F 2	4 43 53	9°59'59	24°57	21°37	20°37	14Ω 5	18B44	6B41	18°21	14B30	28B 7	9° 3	8°52	18°36	19B 8	
S 3	4 47 50	11° 0'51	8B23	23° 0	21°52	13°52	18°37	6°38	18°22	14°29	28° 5	9° 3	8°49	18°43	19° 5	
S 4	4 51 47	12° 1'44	21°36	24°24	23° 7	13°39	18°30	6°34	18°23	14°27	28° 4	9° 3	8°46	18°50	19° 2	
M 5	4 55 43	13° 2'38	4II35	25°50	24°22	13°24	18°23	6°31	18°24	14°26	28° 3	9°R 4	8°43	18°56	18°59	
T 6	4 59 40	14° 3'33	17°21	27°16	25°38	13° 9	18°17	6°28	18°25	14°24	28° 2	9° 3	8°39	19° 3	18°56	
W 7	5 3 36	15° 4'29	29°53	28°43	26°53	12°53	18°10	6°24	18°26	14°23	28° 1	9° 3	8°36	19°10	18°53	
T 8	5 7 33	16° 5'26	12B13	0X11	28° 8	12°37	18° 4	6°21	18°27	14°21	28° 0	9° 2	8°33	19°16	18°50	
F 9	5 11 29	17° 6'24	24°22	1°40	29°23	12°20	17°57	6°18	18°28	14°20	27°59	9° 1	8°30	19°23	18°48	
S 10	5 15 26	18° 7'23	6Ω21	3° 9	0X39	12° 2	17°51	6°15	18°29	14°19	27°58	9° 0	8°27	19°30	18°45	
S 11	5 19 22	19° 8'23	18°15	4°39	1°54	11°43	17°45	6°12	18°30	14°17	27°57	8°59	8°24	19°37	18°42	
M12	5 23 19	20° 9'23	0M 6	6° 9	3° 9	11°24	17°40	6°10	18°30	14°16	27°56	8°58	8°20	19°43	18°40	
T 13	5 27 16	21°10'25	12° 0	7°39	4°24	11° 4	17°34	6° 7	18°31	14°15	27°55	8°57	8°17	19°50	18°37	
W14	5 31 12	22°11'28	24° 0	9°10	5°40	10°43	17°29	6° 4	18°32	14°14	27°54	8°D57	8°14	19°57	18°35	
T 15	5 35 9	23°12'32	6Ω10	10°41	6°55	10°22	17°23	6° 2	18°32	14°12	27°53	8°57	8°11	20° 3	18°32	
F 16	5 39 5	24°13'37	18°37	12°13	8°10	10° 1	17°18	5°59	18°33	14°11	27°52	8°58	8° 8	20°10	18°30	
S 17	5 43 2	25°14'42	1M23	13°44	9°26	9°39	17°13	5°57	18°33	14°10	27°51	8°59	8° 4	20°17	18°27	
S 18	5 46 58	26°15'49	14°33	15°16	10°41	9°17	17° 8	5°55	18°33	14° 9	27°50	9° 1	8° 1	20°24	18°25	
M19	5 50 55	27°16'56	28° 7	16°48	11°57	8°54	17° 4	5°53	18°34	14° 8	27°49	9° 2	7°58	20°30	18°23	
T 20	5 54 51	28°18'04	12X 6	18°20	13°12	8°31	16°59	5°51	18°34	14° 7	27°48	9°R 2	7°55	20°37	18°20	
W21	5 58 48	29°19'12	26°26	19°53	14°27	8° 8	16°55	5°49	18°34	14° 5	27°47	9° 1	7°52	20°44	18°18	
T 22	6 2 45	0B20'21	11B 4	21°26	15°43	7°44	16°51	5°47	18°34	14° 4	27°46	8°59	7°49	20°50	18°16	
F 23	6 6 41	1°21'31	25°51	22°59	16°58	7°20	16°47	5°45	18°34	14° 3	27°45	8°57	7°45	20°57	18°14	
S 24	6 10 38	2°22'40	10X41	24°32	18°14	6°57	16°44	5°44	18°R34	14° 2	27°44	8°53	7°42	21° 4	18°12	
S 25	6 14 34	3°23'50	25°26	26° 5	19°29	6°33	16°40	5°42	18°34	14° 1	27°43	8°50	7°39	21°11	18°10	
M26	6 18 31	4°24'59	9X59	27°39	20°44	6° 9	16°37	5°41	18°34	14° 0	27°42	8°47	7°36	21°17	18° 8	
T 27	6 22 27	5°26'08	24°15	29°13	22° 0	5°45	16°34	5°40	18°34	13°59	27°42	8°45	7°33	21°24	18° 6	
W28	6 26 24	6°27'18	8Y13	0B47	23°15	5°21	16°31	5°38	18°34	13°59	27°41	8°D45	7°30	21°31	18° 4	
T 29	6 30 20	7°28'27	21°52	2°21	24°31	4°58	16°28	5°37	18°34	13°58	27°40	8°46	7°26	21°37	18° 2	
F 30	6 34 17	8°29'36	5B13	3°56	25°46	4°34	16°26	5°36	18°33	13°57	27°39	8°47	7°23	21°44	18° 0	
S 31	6 38 14	9B30'45	18B17	5B31	27X 1	4Ω11	16B24	5B36	18M33	13B56	27B38	8X49	7X20	21Ω51	17B59	

Delta T = -5.33 sec.

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