

SWISS EPHEMERIS for the year 1080

JANUARY 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	7 2 56	16°23'04	21°29	25°20	25°28	20°56	11°45	6°49	18°58	21°R50	18°52	8°R52	8°37	29°7	7°9								
T 2	7 6 53	17°24'10	4°Y23	27° 3	26°40	21°44	11°49	6°56	19° 1	21°II49	18°53	8°351	8°34	29° 7	7°14								
F 3	7 10 49	18°25'14	17°36	28°46	27°52	22°31	11°52	7° 3	19° 5	21°47	18°53	8°D51	8°31	29°13	7°18								
S 4	7 14 46	19°26'17	1°R12	0°28	29° 3	23°18	11°55	7°10	19° 8	21°46	18°54	8°51	8°27	29°20	7°22								
S 5	7 18 42	20°27'19	15°11	2°11	0°X15	24° 5	11°59	7°17	19°11	21°44	18°55	8°52	8°24	29°27	7°27								
M 6	7 22 39	21°28'20	29°33	3°53	1°27	24°52	12° 2	7°24	19°14	21°43	18°56	8°53	8°21	29°33	7°31								
T 7	7 26 36	22°29'20	14°II16	5°34	2°38	25°40	12° 4	7°31	19°17	21°41	18°57	8°54	8°18	29°40	7°36								
W 8	7 30 32	23°30'19	29°15	7°15	3°50	26°27	12° 7	7°38	19°20	21°40	18°58	8°55	8°15	29°47	7°40								
T 9	7 34 29	24°31'16	14°22	8°55	5° 1	27°14	12° 9	7°45	19°23	21°39	18°59	8°R55	8°11	29°53	7°45								
F 10	7 38 25	25°32'13	29°28	10°33	6°12	28° 2	12°12	7°52	19°27	21°37	19° 0	8°54	8° 8	0° 7	7°49								
S 11	7 42 22	26°33'08	14°R24	12° 9	7°24	28°49	12°14	7°59	19°30	21°36	19° 1	8°52	8° 5	0° 7	7°54								
S 12	7 46 18	27°34'03	29° 3	13°44	8°35	29°36	12°16	8° 6	19°33	21°35	19° 2	8°50	8° 2	0°13	7°58								
M13	7 50 15	28°34'56	13°II17	15°15	9°45	0°23	12°17	8°14	19°36	21°33	19° 3	8°47	7°59	0°20	8° 3								
T 14	7 54 11	29°35'49	27° 4	16°43	10°56	1°11	12°19	8°21	19°40	21°32	19° 4	8°44	7°56	0°27	8° 7								
W15	7 58 8	0°36'40	10°24	18° 8	12° 7	1°58	12°20	8°28	19°43	21°31	19° 5	8°42	7°52	0°33	8°12								
T 16	8 2 5	1°37'31	23°17	19°28	13°17	2°46	12°21	8°35	19°46	21°30	19° 6	8°41	7°49	0°40	8°16								
F 17	8 6 1	2°38'21	5°II48	20°42	14°28	3°33	12°22	8°42	19°50	21°28	19° 7	8°D41	7°46	0°46	8°21								
S 18	8 9 58	3°39'10	18° 0	21°51	15°38	4°20	12°23	8°50	19°53	21°27	19° 8	8°41	7°43	0°53	8°25								
S 19	8 13 54	4°39'57	29°59	22°53	16°48	5° 8	12°23	8°57	19°56	21°26	19° 9	8°43	7°40	1° 0	8°30								
M20	8 17 51	5°40'44	11°749	23°48	17°58	5°55	12°24	9° 4	20° 0	21°25	19°10	8°45	7°37	1° 6	8°34								
T 21	8 21 47	6°41'30	23°36	24°34	19° 8	6°42	12°R24	9°11	20° 3	21°24	19°11	8°47	7°33	1°13	8°39								
W22	8 25 44	7°42'14	5°22	25°12	20°18	7°30	12°24	9°19	20° 7	21°23	19°13	8°R47	7°30	1°20	8°43								
T 23	8 29 40	8°42'57	17°12	25°40	21°27	8°17	12°24	9°26	20°10	21°22	19°14	8°47	7°27	1°26	8°48								
F 24	8 33 37	9°43'39	29° 9	25°57	22°37	9° 5	12°23	9°33	20°13	21°21	19°15	8°45	7°24	1°33	8°52								
S 25	8 37 34	10°44'19	11°14	26°R 5	23°46	9°52	12°23	9°40	20°17	21°20	19°16	8°42	7°21	1°40	8°57								
S 26	8 41 30	11°44'58	23°29	26° 2	24°55	10°40	12°22	9°48	20°20	21°19	19°17	8°37	7°17	1°46	9° 1								
M27	8 45 27	12°45'35	5°X55	25°48	26° 4	11°27	12°21	9°55	20°24	21°18	19°19	8°31	7°14	1°53	9° 6								
T 28	8 49 23	13°46'11	18°33	25°24	27°13	12°14	12°20	10° 2	20°27	21°17	19°20	8°24	7°11	2° 0	9°11								
W29	8 53 20	14°46'45	1°Y23	24°51	28°22	13° 2	12°18	10°10	20°31	21°16	19°21	8°18	7° 8	2° 6	9°15								
T 30	8 57 16	15°47'17	14°28	24° 9	29°30	13°49	12°17	10°17	20°34	21°15	19°22	8°13	7° 5	2°13	9°20								
F 31	9 1 13	16°47'47	27°Y46	23°19	0°Y38	14°37	12°15	10°24	20°37	21°II14	19°X24	8°10	7° 2	2°20	9°24								

Delta T = 19m41s Julian Calendar 1 Jan. 1080 == Greg. Calendar 7 Jan. 1080

FEBRUARY 1080 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	9 5 9	17°48'15	11°R19	22°R22	1°Y47	15°24	12°R13	10°31	20°41	21°R13	19°X25	8°R 8	6°58	2°26	9°29								
S 2	9 9 6	18°48'41	25° 9	21°21	2°54	16°11	12°11	10°38	20°44	21°II13	19°26	8°D 8	6°55	2°33	9°33								
M 3	9 13 3	19°49'06	9°II14	20°17	4° 2	16°59	12° 9	10°46	20°48	21°12	19°28	8°3 9	6°52	2°39	9°38								
T 4	9 16 59	20°49'28	23°35	19°11	5°10	17°46	12° 6	10°53	20°51	21°11	19°29	8°11	6°49	2°46	9°42								
W 5	9 20 56	21°49'49	8°210	18° 5	6°17	18°33	12° 4	11° 0	20°55	21°11	19°30	8°R11	6°46	2°53	9°47								
T 6	9 24 52	22°50'07	22°53	17° 1	7°24	19°21	12° 1	11° 7	20°58	21°10	19°32	8°10	6°43	2°59	9°51								
F 7	9 28 49	23°50'23	7°II40	16° 0	8°31	20° 8	11°58	11°14	21° 2	21° 9	19°33	8° 7	6°39	3° 6	9°55								
S 8	9 32 45	24°50'38	22°23	15° 4	9°37	20°55	11°55	11°22	21° 5	21° 9	19°34	8° 2	6°36	3°13	10° 0								
S 9	9 36 42	25°50'50	6°II55	14°12	10°44	21°43	11°51	11°29	21° 9	21° 8	19°36	7°55	6°33	3°19	10° 4								
M10	9 40 38	26°51'01	21° 8	13°27	11°50	22°30	11°48	11°36	21°12	21° 8	19°37	7°47	6°30	3°26	10° 9								
T 11	9 44 35	27°51'10	4°258	12°48	12°55	23°17	11°44	11°43	21°15	21° 7	19°39	7°39	6°27	3°33	10°13								
W12	9 48 32	28°51'17	18°22	12°16	14° 1	24° 5	11°40	11°50	21°19	21° 7	19°40	7°31	6°23	3°39	10°17								
T 13	9 52 28	29°51'23	1°II21	11°51	15° 6	24°52	11°36	11°57	21°22	21° 6	19°41	7°25	6°20	3°46	10°22								
F 14	9 56 25	0°X51'27	13°56	11°33	16°11	25°39	11°32	12° 4	21°26	21° 6	19°43	7°22	6°17	3°53	10°26								
S 15	10 0 21	1°51'30	26°11	11°21	17°16	26°26	11°28	12°11	21°29	21° 6	19°44	7°20	6°14	3°59	10°30								
S 16	10 4 18	2°51'31	8°X11	11°D17	18°21	27°14	11°23	12°18	21°33	21° 5	19°46	7°D20	6°11	4° 6	10°35								
M17	10 8 14	3°51'30	20° 2	11°18	19°25	28° 1	11°18	12°25	21°36	21° 5	19°47	7°21	6° 8	4°12	10°39								
T 18	10 12 11	4°51'27	1°349	11°26	20°29	28°48	11°14	12°32	21°39	21° 5	19°49	7°R21	6° 4	4°19	10°43								
W19	10 16 7	5°51'23	13°37	11°40	21°33	29°35	11° 9	12°39	21°43	21° 5	19°50	7°21	6° 1	4°26	10°47								
T 20	10 20 4	6°51'17	25°30	11°59	22°36	0°X22	11° 3	12°46	21°46	21° 4	19°52	7°20	5°58	4°32	10°51								
F 21	10 24 1	7°51'09	7°34	12°23	23°39	1°10	10°58	12°52	21°50	21° 4	19°53	7°15	5°55	4°39	10°56								
S 22	10 27 57	8°51'00	19°49	12°52	24°41	1°57	10°53	12°59	21°53	21° 4	19°55	7° 8	5°52	4°46	11° 0								
S 23	10 31 54	9°50'48	2°X19	13°26	25°44	2°44	10°47	13° 6	21°56	21° 4	19°56	6°59	5°48	4°52	11° 4								
M24	10 35 50	10°50'34	15° 3	14° 4	26°46	3°31	10°41	13°13	22° 0	21° 4	19°58	6°48	5°45	4°59	11° 8								
T 25	10 39 47	11°50'18	28° 3	14°45	27°47	4°18	10°35	13°19	22° 3	21°D 4	19°59	6°36	5°42	5° 6	11°12								
W26	10 43 43	12°50'00	11°Y16	15°31	28°49	5° 5	10°29	13°26	22° 6	21° 4	20° 0	6°25	5°39	5°12	11°16								
T 27	10 47 40	13°49'40	24°40	16°20	29°49	5°52	10°23	13°33	22° 9	21° 4	20° 2	6°15	5°36	5°19	11°20								
F 28	10 51 36	14°49'18	8°R16	17°12	0°X50	6°39	10°17	13°39	22°13	21° 4	20° 3	6° 8	5°33	5°26	11°24								
S 29	10 55 33	15°48'53	22°R 0	18° 7	1°R50	7°X26	10°11	13°46	22°16	21°II 4	20°X 5	6° 3	5°29	5°32	11°28								

Delta T = 19m41s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1080

MARCH 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	10 59 29	16 ^h 48'27"	5 ^h 11'53"	19 [°] 6'	2 ^h 8'49"	8 ^h 13'	10 ^h R 4'	13 ^h 52'	22 ^h 19'	21 ^h 11' 5"	20 ^h 6'	6 ^h R 1'	5 ^h 26'	5 ^h 39'	11 ^h 32'								
M 2	11 3 26	17 ^h 47'57"	19 ^h 53'	20 [°] 6'	3 ^h 49"	9 ^h 0'	9 ^h 58'	13 ^h 59'	22 ^h 22'	21 ^h 5'	20 ^h 8'	6 ^h D 1'	5 ^h 23'	5 ^h 46'	11 ^h 36'								
T 3	11 7 23	18 ^h 47'26"	4 ^h 50'	21 [°] 10'	4 ^h 47"	9 ^h 47"	9 ^h 51'	14 ^h 5'	22 ^h 26'	21 ^h 5'	20 ^h 9'	6 ^h R 1'	5 ^h 20'	5 ^h 52'	11 ^h 40'								
W 4	11 11 19	19 ^h 46'52"	13 ^h 14'	22 [°] 16'	5 ^h 45"	10 ^h 34'	9 ^h 44'	14 ^h 12'	22 ^h 29'	21 ^h 5'	20 ^h 11'	6 ^h 30'	5 ^h 17'	5 ^h 59'	11 ^h 43'								
T 5	11 15 16	20 ^h 46'15"	2 ^h 03'33"	23 [°] 24'	6 ^h 43"	11 ^h 21'	9 ^h 37"	14 ^h 18'	22 ^h 32'	21 ^h 6'	20 ^h 12'	5 ^h 58'	5 ^h 14'	6 ^h 5'	11 ^h 47'								
F 6	11 19 12	21 ^h 45'37"	16 ^h 53'	24 [°] 35'	7 ^h 40"	12 ^h 7'	9 ^h 31'	14 ^h 24'	22 ^h 35'	21 ^h 6'	20 ^h 14'	5 ^h 53'	5 ^h 10'	6 ^h 12'	11 ^h 51'								
S 7	11 23 9	22 ^h 44'55"	1 ^h 11'	25 [°] 47'	8 ^h 37"	12 ^h 54'	9 ^h 23'	14 ^h 30'	22 ^h 38'	21 ^h 6'	20 ^h 15'	5 ^h 45'	5 ^h 7'	6 ^h 19'	11 ^h 55'								
S 8	11 27 5	23 ^h 44'12"	15 ^h 21'	27 [°] 2'	9 ^h 33"	13 ^h 41'	9 ^h 16'	14 ^h 37'	22 ^h 41'	21 ^h 7'	20 ^h 17'	5 ^h 35'	5 ^h 4'	6 ^h 25'	11 ^h 58'								
M 9	11 31 2	24 ^h 43'27"	29 ^h 17'	28 [°] 18'	10 ^h 29'	14 ^h 27'	9 ^h 9'	14 ^h 43'	22 ^h 44'	21 ^h 7'	20 ^h 18'	5 ^h 23'	5 ^h 1'	6 ^h 32'	12 ^h 2'								
T 10	11 34 58	25 ^h 42'39"	12 ^h 56'	29 [°] 37'	11 ^h 24'	15 ^h 14'	9 ^h 2'	14 ^h 49'	22 ^h 47'	21 ^h 8'	20 ^h 20'	5 ^h 11'	4 ^h 58'	6 ^h 39'	12 ^h 5'								
W11	11 38 55	26 ^h 41'49"	26 ^h 14'	0 ^h 57'	12 ^h 18'	16 ^h 1'	8 ^h 55'	14 ^h 55'	22 ^h 50'	21 ^h 8'	20 ^h 21'	4 ^h 59'	4 ^h 54'	6 ^h 45'	12 ^h 9'								
T 12	11 42 52	27 ^h 40'58"	9 ^h 11'10"	2 ^h 19'	13 ^h 12'	16 ^h 47"	8 ^h 47"	15 ^h 1'	22 ^h 53'	21 ^h 9'	20 ^h 23'	4 ^h 50'	4 ^h 51'	6 ^h 52'	12 ^h 12'								
F 13	11 46 48	28 ^h 40'05"	21 ^h 45'	3 ^h 43'	14 ^h 5'	17 ^h 34'	8 ^h 40'	15 ^h 7'	22 ^h 56'	21 ^h 9'	20 ^h 24'	4 ^h 43'	4 ^h 48'	6 ^h 59'	12 ^h 16'								
S 14	11 50 45	29 ^h 39'10"	4 ^h 7'	5 ^h 8'	14 ^h 57"	18 ^h 21'	8 ^h 32'	15 ^h 13'	22 ^h 59'	21 ^h 10'	20 ^h 26'	4 ^h 38'	4 ^h 45'	7 ^h 5'	12 ^h 19'								
S 15	11 54 41	0 ^h 38'13"	16 ^h 3'	6 ^h 35'	15 ^h 49'	19 ^h 7'	8 ^h 25'	15 ^h 19'	23 ^h 2'	21 ^h 10'	20 ^h 27'	4 ^h 36'	4 ^h 42'	7 ^h 12'	12 ^h 23'								
M16	11 58 38	1 ^h 37'14"	27 ^h 56'	8 ^h 4'	16 ^h 40'	19 ^h 54'	8 ^h 17'	15 ^h 24'	23 ^h 5'	21 ^h 11'	20 ^h 29'	4 ^h 36'	4 ^h 39'	7 ^h 19'	12 ^h 26'								
T 17	12 2 34	2 ^h 36'13"	9 ^h 34'	9 ^h 34'	17 ^h 30'	20 ^h 40'	8 ^h 10'	15 ^h 30'	23 ^h 8'	21 ^h 12'	20 ^h 30'	4 ^h 36'	4 ^h 35'	7 ^h 25'	12 ^h 29'								
W18	12 6 31	3 ^h 35'11"	21 ^h 33'	11 ^h 6'	18 ^h 20'	21 ^h 26'	8 ^h 2'	15 ^h 36'	23 ^h 11'	21 ^h 12'	20 ^h 32'	4 ^h 35'	4 ^h 32'	7 ^h 32'	12 ^h 33'								
T 19	12 10 27	4 ^h 34'07"	3 ^h 29'	12 ^h 40'	19 ^h 8'	22 ^h 13'	7 ^h 54'	15 ^h 41'	23 ^h 14'	21 ^h 13'	20 ^h 33'	4 ^h 33'	4 ^h 29'	7 ^h 38'	12 ^h 36'								
F 20	12 14 24	5 ^h 33'00"	15 ^h 37'	14 ^h 15'	19 ^h 56'	22 ^h 59'	7 ^h 47'	15 ^h 47'	23 ^h 16'	21 ^h 14'	20 ^h 35'	4 ^h 28'	4 ^h 26'	7 ^h 45'	12 ^h 39'								
S 21	12 18 21	6 ^h 31'53"	28 ^h 0'	15 ^h 52'	20 ^h 43'	23 ^h 45'	7 ^h 39'	15 ^h 52'	23 ^h 19'	21 ^h 15'	20 ^h 36'	4 ^h 21'	4 ^h 23'	7 ^h 52'	12 ^h 42'								
S 22	12 22 17	7 ^h 30'43"	10 ^h 41'	17 ^h 30'	21 ^h 30'	24 ^h 32'	7 ^h 31'	15 ^h 58'	23 ^h 22'	21 ^h 16'	20 ^h 38'	4 ^h 11'	4 ^h 20'	7 ^h 58'	12 ^h 45'								
M23	12 26 14	8 ^h 29'31"	23 ^h 42'	19 ^h 9'	22 ^h 15'	25 ^h 18'	7 ^h 23'	16 ^h 3'	23 ^h 25'	21 ^h 17'	20 ^h 39'	3 ^h 59'	4 ^h 16'	8 ^h 5'	12 ^h 48'								
T 24	12 30 10	9 ^h 28'17"	7 ^h 7'	20 ^h 51'	22 ^h 59'	26 ^h 4'	7 ^h 16'	16 ^h 9'	23 ^h 27'	21 ^h 17'	20 ^h 41'	3 ^h 46'	4 ^h 13'	8 ^h 12'	12 ^h 51'								
W25	12 34 7	10 ^h 27'01"	20 ^h 38'	22 ^h 33'	23 ^h 43'	26 ^h 50'	7 ^h 8'	16 ^h 14'	23 ^h 30'	21 ^h 18'	20 ^h 42'	3 ^h 34'	4 ^h 10'	8 ^h 18'	12 ^h 54'								
T 26	12 38 3	11 ^h 25'43"	4 ^h 8'28"	24 ^h 18'	24 ^h 25'	27 ^h 36'	7 ^h 0'	16 ^h 19'	23 ^h 32'	21 ^h 19'	20 ^h 43'	3 ^h 23'	4 ^h 7'	8 ^h 25'	12 ^h 57'								
F 27	12 42 0	12 ^h 24'24"	18 ^h 28'	26 ^h 4'	25 ^h 6'	28 ^h 22'	6 ^h 53'	16 ^h 24'	23 ^h 35'	21 ^h 20'	20 ^h 45'	3 ^h 14'	4 ^h 4'	8 ^h 32'	13 ^h 0'								
S 28	12 45 56	13 ^h 23'02"	2 ^h 11'34"	27 ^h 51'	25 ^h 46'	29 ^h 8'	6 ^h 45'	16 ^h 29'	23 ^h 38'	21 ^h 21'	20 ^h 46'	3 ^h 9'	4 ^h 0'	8 ^h 38'	13 ^h 2'								
S 29	12 49 53	14 ^h 21'38"	16 ^h 42'	29 ^h 41'	26 ^h 25'	29 ^h 54'	6 ^h 37'	16 ^h 34'	23 ^h 40'	21 ^h 23'	20 ^h 48'	3 ^h 6'	3 ^h 57'	8 ^h 45'	13 ^h 5'								
M30	12 53 50	15 ^h 20'11"	0 ^h 51'	1 ^h 31'	27 ^h 3'	0 ^h 40'	6 ^h 30'	16 ^h 39'	23 ^h 42'	21 ^h 24'	20 ^h 49'	3 ^h D 5'	3 ^h 54'	8 ^h 52'	13 ^h 8'								
T 31	12 57 46	16 ^h 18'43"	14 ^h 59'	3 ^h 24'	27 ^h 40'	1 ^h 26'	6 ^h 22'	16 ^h 44'	23 ^h 45'	21 ^h 25'	20 ^h 50'	3 ^h R 5'	3 ^h 51'	8 ^h 58'	13 ^h 10'								

Delta T = 19m40s Julian Calendar 1 March 1080 == Greg. Calendar 7 March 1080

APRIL 1080 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	13 1 43	17 ^h 17'12"	29 ^h 34'	5 ^h 18'	28 ^h 15'	2 ^h 12'	6 ^h R15'	16 ^h 49'	23 ^h 47'	21 ^h 11'26"	20 ^h 52'	3 ^h R 5'	3 ^h 48'	9 ^h 30'	13 ^h 13'								
T 2	13 5 39	18 ^h 15'38"	13 ^h 06'	7 ^h 13'	28 ^h 49'	2 ^h 58'	6 ^h 48'	16 ^h 53'	23 ^h 50'	21 ^h 27'	20 ^h 53'	3 ^h 30'	3 ^h 45'	9 ^h 11'	13 ^h 15'								
F 3	13 9 36	19 ^h 14'03"	27 ^h 4'	9 ^h 10'	29 ^h 21'	3 ^h 44'	6 ^h 0'	16 ^h 58'	23 ^h 52'	21 ^h 28'	20 ^h 54'	2 ^h 59'	3 ^h 41'	9 ^h 18'	13 ^h 18'								
S 4	13 13 32	20 ^h 12'25"	10 ^h 11'56"	11 ^h 9'	29 ^h 52'	4 ^h 29'	5 ^h 53'	17 ^h 2'	23 ^h 54'	21 ^h 30'	20 ^h 56'	2 ^h 51'	3 ^h 38'	9 ^h 25'	13 ^h 20'								
S 5	13 17 29	21 ^h 10'46"	24 ^h 39'	13 ^h 9'	0 ^h 11'22"	5 ^h 15'	5 ^h 46'	17 ^h 7'	23 ^h 56'	21 ^h 31'	20 ^h 57'	2 ^h 42'	3 ^h 35'	9 ^h 31'	13 ^h 23'								
M 6	13 21 25	22 ^h 9'04"	8 ^h 11'	15 ^h 11'	0 ^h 50'	6 ^h 1'	5 ^h 38'	17 ^h 11'	23 ^h 59'	21 ^h 32'	20 ^h 58'	2 ^h 31'	3 ^h 32'	9 ^h 38'	13 ^h 25'								
T 7	13 25 22	23 ^h 7'20"	21 ^h 29'	17 ^h 14'	1 ^h 16'	6 ^h 46'	5 ^h 31'	17 ^h 16'	24 ^h 1'	21 ^h 33'	21 ^h 0'	2 ^h 19'	3 ^h 29'	9 ^h 45'	13 ^h 27'								
W 8	13 29 18	24 ^h 5'35"	4 ^h 11'30"	19 ^h 18'	1 ^h 41'	7 ^h 32'	5 ^h 24'	17 ^h 20'	24 ^h 3'	21 ^h 35'	21 ^h 1'	2 ^h 8'	3 ^h 25'	9 ^h 51'	13 ^h 29'								
T 9	13 33 15	25 ^h 3'47"	17 ^h 15'	21 ^h 24'	2 ^h 4'	8 ^h 17'	5 ^h 17'	17 ^h 24'	24 ^h 5'	21 ^h 36'	21 ^h 2'	1 ^h 59'	3 ^h 22'	9 ^h 58'	13 ^h 31'								
F 10	13 37 12	26 ^h 1'59"	29 ^h 42'	23 ^h 31'	2 ^h 25'	9 ^h 3'	5 ^h 11'	17 ^h 28'	24 ^h 7'	21 ^h 38'	21 ^h 4'	1 ^h 52'	3 ^h 19'	10 ^h 5'	13 ^h 33'								
S 11	13 41 8	27 ^h 0'08"	11 ^h 7'55"	25 ^h 39'	2 ^h 44'	9 ^h 48'	5 ^h 4'	17 ^h 32'	24 ^{h</}														

SWISS EPHEMERIS for the year 1080

MAY 1080 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
F 1	14 59 59	16♁18'06	7♎41	5♁41	1°R27	24♁45	3°R15	18♁34	24♁40	22♁13	21♁27	0°R49	2♁12	12♁24	14♁ 3									
S 2	15 3 56	17°15'43	21°15	7°16	0♁59	25°30	3♁11	18°36	24°41	22°14	21°28	0♁45	2° 9	12°31	14° 3									
S 3	15 7 52	18°13'19	4♁36	8°49	0°30	26°14	3° 7	18°39	24°42	22°16	21°29	0°39	2° 6	12°38	14° 4									
M 4	15 11 49	19°10'53	17°44	10°18	29♁58	26°58	3° 4	18°40	24°43	22°18	21°30	0°33	2° 3	12°44	14° 5									
T 5	15 15 45	20° 8'26	0♁38	11°44	29°25	27°42	3° 0	18°42	24°44	22°20	21°31	0°26	2° 0	12°51	14° 5									
W 6	15 19 42	21° 5'57	13°20	13° 6	28°51	28°26	2°57	18°44	24°45	22°22	21°32	0°19	1°57	12°57	14° 6									
T 7	15 23 39	22° 3'28	27°48'10	14°25	28°15	29°10	2°54	18°46	24°46	22°24	21°33	0°14	1°53	13° 4	14° 6									
F 8	15 27 35	23° 0'57	8♁ 3	15°41	27°39	29°54	2°51	18°47	24°47	22°26	21°33	0°10	1°50	13°11	14° 6									
S 9	15 31 32	23°58'25	20° 8	16°53	27° 2	0♁38	2°49	18°49	24°47	22°28	21°34	0° 8	1°47	13°17	14° 7									
S 10	15 35 28	24°55'53	2♁ 4	18° 1	26°24	1°22	2°46	18°50	24°48	22°30	21°35	0°D 7	1°44	13°24	14° 7									
M11	15 39 25	25°53'19	13°54	19° 6	25°46	2° 6	2°44	18°52	24°49	22°32	21°36	0° 8	1°41	13°31	14° 7									
T12	15 43 21	26°50'45	25°41	20° 8	25° 9	2°50	2°41	18°53	24°49	22°34	21°37	0°10	1°37	13°37	14° 7									
W13	15 47 18	27°48'10	7♁32	21° 5	24°31	3°33	2°39	18°54	24°50	22°36	21°37	0°11	1°34	13°44	14°R 7									
T14	15 51 14	28°45'34	19°29	21°59	23°54	4°17	2°38	18°55	24°50	22°38	21°38	0°13	1°31	13°51	14° 7									
F15	15 55 11	29°42'57	1♁37	22°49	23°18	5° 1	2°36	18°56	24°51	22°40	21°39	0°R13	1°28	13°57	14° 7									
S16	15 59 8	0♁40'19	14° 3	23°35	22°43	5°44	2°34	18°57	24°51	22°42	21°39	0°12	1°25	14° 4	14° 7									
S17	16 3 4	1°37'41	26°49	24°17	22° 9	6°28	2°33	18°57	24°52	22°45	21°40	0°10	1°22	14°11	14° 6									
M18	16 7 1	2°35'03	9♁59	24°54	21°36	7°11	2°32	18°58	24°52	22°47	21°41	0° 7	1°18	14°17	14° 6									
T19	16 10 57	3°32'24	23°36	25°28	21° 5	7°54	2°31	18°59	24°52	22°49	21°41	0° 3	1°15	14°24	14° 6									
W20	16 14 54	4°29'44	7♁37	25°57	20°36	8°38	2°30	18°59	24°52	22°51	21°42	0° 0	1°12	14°31	14° 5									
T21	16 18 50	5°27'04	22° 2	26°22	20° 8	9°21	2°30	18°59	24°53	22°53	21°42	29♁56	1° 9	14°37	14° 5									
F22	16 22 47	6°24'23	6♁43	26°42	19°43	10° 4	2°29	19° 0	24°53	22°55	21°43	29°54	1° 6	14°44	14° 4									
S23	16 26 43	7°21'41	21°36	26°58	19°19	10°47	2°29	19° 0	24°53	22°57	21°43	29°53	1° 2	14°50	14° 4									
S24	16 30 40	8°18'59	6♁31	27° 9	18°58	11°30	2°D29	19°R 0	24°R53	23° 0	21°44	29°D53	0°59	14°57	14° 3									
M25	16 34 37	9°16'16	21°20	27°16	18°39	12°13	2°29	19° 0	24°53	23° 2	21°45	29°54	0°56	15° 4	14° 2									
T26	16 38 33	10°13'32	5♁59	27°R18	18°23	12°56	2°29	18°59	24°53	23° 4	21°45	29°55	0°53	15°10	14° 1									
W27	16 42 30	11°10'47	20°22	27°16	18° 8	13°39	2°30	18°59	24°53	23° 6	21°45	29°56	0°50	15°17	14° 0									
T28	16 46 26	12° 8'01	4♁26	27° 9	17°57	14°22	2°31	18°59	24°52	23° 8	21°46	29°57	0°47	15°24	13°59									
F29	16 50 23	13° 5'14	18°10	26°58	17°47	15° 5	2°32	18°58	24°52	23°11	21°46	29°R57	0°43	15°30	13°58									
S30	16 54 19	14° 2'27	1♁35	26°43	17°40	15°48	2°33	18°58	24°52	23°13	21°47	29°56	0°40	15°37	13°57									
S31	16 58 16	14♁59'39	14♁42	26♁24	17♁35	16♁30	2♁34	18♁57	24♁52	23♁15	21♁47	29♁55	0♁37	15♁44	13♁56									

Delta T = 19m39s Julian Calendar 1 May 1080 == Greg. Calendar 7 May 1080

JUNE 1080 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
M 1	17 2 13	15♁56'50	27♁33	26°R 1	17°R33	17♁13	2♁35	18°R56	24°R51	23♁17	21♁47	29°R53	0♁34	15♁50	13°R55									
T 2	17 6 9	16°54'00	10♁ 9	25♁35	17°D33	17°55	2°37	18°55	24°51	23°19	21°48	29♁51	0°31	15°57	13°54									
W 3	17 10 6	17°51'10	22°32	25° 6	17♁35	18°38	2°39	18°54	24°50	23°22	21°48	29°50	0°28	16° 4	13°53									
T 4	17 14 2	18°48'20	4♁44	24°34	17°39	19°20	2°40	18°53	24°50	23°24	21°48	29°48	0°24	16°10	13°51									
F 5	17 17 59	19°45'30	16°48	24° 1	17°46	20° 3	2°43	18°52	24°49	23°26	21°48	29°47	0°21	16°17	13°50									
S 6	17 21 55	20°42'39	28°44	23°27	17°55	20°45	2°45	18°51	24°49	23°28	21°49	29°D47	0°18	16°24	13°48									
S 7	17 25 52	21°39'48	10♁35	22°51	18° 6	21°27	2°47	18°50	24°48	23°31	21°49	29°47	0°15	16°30	13°47									
M 8	17 29 48	22°36'57	22°23	22°16	18°19	22° 9	2°50	18°48	24°47	23°33	21°49	29°48	0°12	16°37	13°45									
T 9	17 33 45	23°34'06	4♁11	21°40	18°34	22°51	2°53	18°47	24°47	23°35	21°49	29°48	0° 8	16°44	13°44									
W10	17 37 42	24°31'14	16° 3	21° 6	18°51	23°33	2°56	18°45	24°46	23°37	21°49	29°49	0° 5	16°50	13°42									
T11	17 41 38	25°28'23	28° 1	20°34	19°10	24°15	2°59	18°43	24°45	23°39	21°49	29°50	0° 2	16°57	13°40									
F12	17 45 35	26°25'32	10♁11	20° 3	19°31	24°57	3° 2	18°42	24°44	23°42	21°50	29°50	29♁59	17° 3	13°38									
S13	17 49 31	27°22'42	22°35	19°36	19°53	25°39	3° 5	18°40	24°43	23°44	21°50	29°R50	29°56	17°10	13°37									
S14	17 53 28	28°19'51	5♁18	19°11	20°17	26°21	3° 9	18°38	24°42	23°46	21°50	29°50	29°53	17°17	13°35									
M15	17 57 24	29°17'01	18°24	18°50	20°43	27° 3	3°13	18°36	24°41	23°48	21°50	29°50	29°49	17°23	13°33									
T16	18 1 21	0♁14'11	1♁56	18°34	21°10	27°45	3°17	18°33	24°40	23°51	21°R50	29°D50	29°46	17°30	13°31									
W17	18 5 17	1°11'22	15°54	18°21	21°39	28°26	3°21	18°31	24°39	23°53	21°50	29°50	29°43	17°37	13°29									
T18	18 9 14	2° 8'33	0♁17	18°13	22° 9	29° 8	3°25	18°29	24°38	23°55	21°50	29°50	29°40	17°43	13°27									
F19	18 13 11	3° 5'45	15° 3	18°D10	22°41	29°49	3°29	18°26	24°37	23°57	21°50	29°50	29°37	17°50	13°24									
S20	18 17 7	4° 2'57	0♁ 4	18°13	23°14	0♁31	3°34	18°24	24°36	24° 0	21°													

SWISS EPHEMERIS for the year 1080

JULY 1080 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	19 0 29	14 ⁵³ 21'18	1 ⁷ 48	24 ^{II} 25	0 ^{II} 34	8 ^{II} 3	4 ^Ω 34	17°R51	24°R20	24 ^{II} 23	21°R47	29°A50	28°A59	19°C10	12°R55								
T 2	19 4 26	15°29'33	13°49	25°30	1°19	8°43	4°41	17°A48	24°A18	24°26	21°H47	29°51	28°55	19°17	12°A53								
F 3	19 8 22	16°26'47	25°43	26°40	2° 6	9°24	4°47	17°44	24°16	24°28	21°46	29°R52	28°52	19°23	12°50								
S 4	19 12 19	17°24'03	7 ^Ω 33	27°56	2°53	10° 5	4°54	17°41	24°14	24°30	21°46	29°52	28°49	19°30	12°47								
S 5	19 16 15	18°21'19	19°22	29°15	3°41	10°45	5° 1	17°37	24°13	24°32	21°46	29°51	28°46	19°37	12°45								
M 6	19 20 12	19°18'36	1 ^Ω 11	0 ^Ω 40	4°30	11°26	5° 8	17°34	24°11	24°34	21°45	29°49	28°43	19°43	12°42								
T 7	19 24 9	20°15'54	13° 2	2° 9	5°20	12° 6	5°15	17°30	24° 9	24°36	21°45	29°46	28°40	19°50	12°39								
W 8	19 28 5	21°13'12	24°59	3°42	6°10	12°46	5°22	17°26	24° 7	24°38	21°44	29°43	28°36	19°57	12°36								
T 9	19 32 2	22°10'31	7 ^H 2	5°19	7° 1	13°27	5°29	17°22	24° 5	24°40	21°44	29°39	28°33	20° 3	12°33								
F 10	19 35 58	23° 7'52	19°16	7° 1	7°53	14° 7	5°36	17°18	24° 3	24°42	21°43	29°36	28°30	20°10	12°30								
S 11	19 39 55	24° 5'13	1 ^V 43	8°46	8°45	14°47	5°44	17°14	24° 1	24°44	21°43	29°33	28°27	20°16	12°27								
S 12	19 43 51	25° 2'36	14°26	10°34	9°38	15°27	5°52	17°10	23°59	24°46	21°42	29°32	28°24	20°23	12°24								
M13	19 47 48	26° 0'00	27°28	12°25	10°32	16° 7	5°59	17° 6	23°57	24°48	21°42	29°D31	28°20	20°30	12°21								
T 14	19 51 44	26°57'25	10 ^Ω 52	14°20	11°26	16°47	6° 7	17° 2	23°55	24°50	21°41	29°32	28°17	20°36	12°18								
W15	19 55 41	27°54'52	24°40	16°16	12°20	17°27	6°15	16°58	23°53	24°52	21°40	29°33	28°14	20°43	12°15								
T 16	19 59 38	28°52'19	8 ^{II} 53	18°15	13°15	18° 7	6°23	16°54	23°51	24°54	21°40	29°35	28°11	20°50	12°12								
F 17	20 3 34	29°49'49	23°30	20°15	14°11	18°47	6°32	16°50	23°49	24°56	21°39	29°R36	28° 8	20°56	12° 9								
S 18	20 7 31	0 ^Ω 47'19	8 ^Ω 25	22°17	15° 7	19°26	6°40	16°46	23°47	24°58	21°38	29°36	28° 5	21° 3	12° 6								
S 19	20 11 27	1°44'51	23°34	24°19	16° 4	20° 6	6°49	16°41	23°45	25° 0	21°38	29°34	28° 1	21°10	12° 3								
M20	20 15 24	2°42'24	8 ^Ω 46	26°22	17° 1	20°46	6°57	16°37	23°43	25° 1	21°37	29°31	27°58	21°16	12° 0								
T 21	20 19 20	3°39'58	23°51	28°26	17°58	21°25	7° 6	16°33	23°40	25° 3	21°36	29°27	27°55	21°23	11°57								
W22	20 23 17	4°37'33	8 ^H 41	0 ^Ω 30	18°56	22° 4	7°15	16°28	23°38	25° 5	21°36	29°21	27°52	21°30	11°54								
T 23	20 27 13	5°35'09	23° 8	2°33	19°54	22°44	7°24	16°24	23°36	25° 7	21°35	29°17	27°49	21°36	11°51								
F 24	20 31 10	6°32'46	7 ^Ω 8	4°36	20°53	23°23	7°33	16°19	23°34	25° 9	21°34	29°12	27°46	21°43	11°47								
S 25	20 35 7	7°30'24	20°39	6°38	21°52	24° 2	7°42	16°15	23°31	25°10	21°33	29° 9	27°42	21°50	11°44								
S 26	20 39 3	8°28'03	3 ^Ω 43	8°40	22°51	24°42	7°51	16°10	23°29	25°12	21°32	29°D 8	27°39	21°56	11°41								
M27	20 43 0	9°25'43	16°23	10°41	23°51	25°21	8° 1	16° 6	23°27	25°14	21°32	29° 8	27°36	22° 3	11°38								
T 28	20 46 56	10°23'24	28°43	12°40	24°52	26° 0	8°10	16° 1	23°25	25°16	21°31	29° 9	27°33	22°10	11°35								
W29	20 50 53	11°21'07	10 ^A 49	14°39	25°52	26°39	8°20	15°57	23°22	25°17	21°30	29°11	27°30	22°16	11°32								
T 30	20 54 49	12°18'51	22°44	16°36	26°53	27°18	8°29	15°52	23°20	25°19	21°29	29°12	27°26	22°23	11°29								
F 31	20 58 46	13 ^Ω 16'35	4 ^Ω 34	18 ^Ω 32	27 ^{II} 54	27 ^{II} 56	8 ^Ω 39	15°A48	23°A18	25°II21	21°H28	29°R12	27°A23	22°C30	11°A25								

Delta T = 19m39s Julian Calendar 1 July 1080 == Greg. Calendar 7 July 1080

AUGUST 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	21 2 43	14 ^Ω 14'22	16 ^Ω 21	20 ^Ω 27	28 ^{II} 56	28 ^{II} 35	8 ^Ω 49	15°R43	23°R15	25°II22	21°R27	29°R10	27°A20	22°C36	11°R22								
S 2	21 6 39	15°12'09	28°10	22°20	29°58	29°14	8°59	15°A39	23°A13	25°24	21°H26	29°A 7	27°17	22°43	11°A19								
M 3	21 10 36	16° 9'58	10 ^Ω 3	24°12	1 ^Ω 0	29°52	9° 9	15°34	23°10	25°25	21°25	29° 1	27°14	22°50	11°16								
T 4	21 14 32	17° 7'48	22° 1	26° 3	2° 2	0 ^Ω 31	9°19	15°30	23° 8	25°27	21°25	28°53	27°11	22°56	11°13								
W 5	21 18 29	18° 5'40	4 ^H 7	27°52	3° 5	1° 9	9°29	15°25	23° 6	25°28	21°24	28°45	27° 7	23° 3	11°10								
T 6	21 22 25	19° 3'34	16°22	29°40	4° 8	1°48	9°39	15°21	23° 3	25°30	21°23	28°35	27° 4	23°10	11° 7								
F 7	21 26 22	20° 1'29	28°46	1 ^H 27	5°11	2°26	9°50	15°16	23° 1	25°31	21°22	28°27	27° 1	23°16	11° 3								
S 8	21 30 18	20°59'26	11 ^V 22	3°12	6°15	3° 4	10° 0	15°12	22°59	25°33	21°21	28°19	26°58	23°23	11° 0								
S 9	21 34 15	21°57'25	24°11	4°56	7°19	3°43	10°11	15° 7	22°56	25°34	21°20	28°13	26°55	23°30	10°57								
M10	21 38 11	22°55'25	7 ^Ω 15	6°39	8°23	4°21	10°21	15° 3	22°54	25°36	21°19	28°10	26°52	23°36	10°54								
T 11	21 42 8	23°53'28	20°36	8°21	9°27	4°59	10°32	14°58	22°51	25°37	21°18	28°D 9	26°48	23°43	10°51								
W12	21 46 5	24°51'33	4 ^{II} 16	10° 1	10°32	5°37	10°43	14°54	22°49	25°38	21°17	28° 9	26°45	23°50	10°48								
T 13	21 50 1	25°49'40	18°16	11°40	11°37	6°15	10°54	14°49	22°47	25°40	21°15	28°10	26°42	23°56	10°45								
F 14	21 53 58	26°47'49	2 ^Ω 37	13°18	12°42	6°53	11° 5	14°45	22°44	25°41	21°14	28°R10	26°39	24° 3	10°42								
S 15	21 57 54	27°46'00	17°16	14°55	13°47	7°30	11°16	14°40	22°42	25°42	21°13	28° 9	26°36	24°10	10°39								
S 16	22 1 51	28°44'13	2 ^Ω 10	16°30	14°53	8° 8	11°27	14°36	22°39	25°43	21°12	28° 5	26°32	24°16	10°36								
M17	22 5 47	29°42'28	17°10	18° 4	15°59	8°46	11°38	14°32	22°37	25°45	21°11	27°59	26°29	24°23	10°33								
T 18	22 9 44	0 ^H 40'45	2 ^H 9	19°37	17° 5	9°23	11°49	14°28	22°35	25°46	21°10	27°50	26°26	24°30	10°30								
W19	22 13 40	1°39'03	16°58	21° 9	18°11	10° 1	12° 1	14°23	22°32	25°47	21° 9	27°41	26°23	24°36	10°28								
T 20	22 17 37	2°37'23	1 ^Ω 26	22°40	19°17	10°38	12°12	14°19	22°30	25°48	21° 8	27°31	26°20	24°43	10°25								
F 21	22 21 34	3°35'45	15°30	24° 9	20°24	11°15	12°24	14°15	22°28	25°49	21° 7	27°22	26°17	24°49	10°22								
S 22	22 25 30	4°34'09	29° 6	25°37	21°31	11°53	12°35	14°11	22°25	25°50	21° 6	27°15	26°13	24°56	10°19								
S 23	22 29 27	5°32'34	12 ^Ω 13	27° 4	22°38	12°30	12°47	14° 7	22°23	25°51	21° 4	27°10	26°10	25° 3	10°16								
M24	22 33 23	6°31'01	24°56	28°30	23°45	13° 7	12°58	14° 3	22°21	25°52	21° 3	27° 8	26° 7	25° 9	10°14								
T 25	22 37 20	7°29'30	7 ^A 17	29°55	24°52	13°44	13°10	13°59	22°18	25°53	21° 2	27°D 7	26° 4	25°16	10°11								
W26	22 41 16	8°28'00	19°22	1 ^Ω 18	26° 0	14°21	13°22	13°55	22°16	25°54	21° 1	27° 8	26° 1	25°23	10° 8								
T 27	22 45 13	9°26'32	1 ^Ω 16	2°40	27° 8	14°57	13°34	13°51	22°14	25°55	21° 0	27°R 8	25°58	25°29	10° 6								
F 28	22 49 9	10°25'06	13° 4	4° 1	28°16	15°34	13°45	13°47	22°12	25°56	20°59	27° 6	25°54	25°36	10° 3								
S 29	22 53 6	11°23'42	24°52	5°20	29°24	16°11	13°57	13°43	22° 9	25°57	20°58	27° 3	25°51	25°43	10° 1								
S 30	22 57 3	12°22'19	6 ^Ω 44	6°38	0 ^Ω 32	16°47	14° 9	13°40	22° 7	25°58	20°56	26°57	25°48	25°49	9°58								
M31	23 0 59	13 ^H 20'58	18 ^Ω 42	7 ^Ω 54	1 ^Ω 40	17 ^Ω 24	14 ^Ω 21	13 ^Ω 36	22 ^Ω 5	25°II58	20°H55	26°A49	25°A45	25°C56	9°A56								

Delta T = 19m38s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1080

SEPTEMBER 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	23 4 56	14 ^h 19'39"	0 ^h X'50	9 ^h Ω 9	2 ^h Ω49	18 ^h ☉ 0	14 ^h Ω34	13 ^h R32	22 ^h R 3	25 ^h II59	20 ^h R54	26 ^h R38	25 ^h X'42	26 ^h ☾ 3	9 ^h R53								
W 2	23 8 52	15 ^h 18'22"	13 ^h 8	10 ^h 23	3 ^h 58	18 ^h 37	14 ^h 46	13 ^h ≈29	22 ^h ≈ 1	26 ^h 0	20 ^h X'53	26 ^h X'25	25 ^h 38	26 ^h 9	9 ^h ≈51								
T 3	23 12 49	16 ^h 17'06"	25 ^h 38	11 ^h 34	5 ^h 6	19 ^h 13	14 ^h 58	13 ^h 25	21 ^h 58	26 ^h 0	20 ^h 52	26 ^h 12	25 ^h 35	26 ^h 16	9 ^h 48								
F 4	23 16 45	17 ^h 15'53"	8 ^h Y'19	12 ^h 44	6 ^h 16	19 ^h 49	15 ^h 10	13 ^h 22	21 ^h 56	26 ^h 1	20 ^h 50	25 ^h 59	25 ^h 32	26 ^h 23	9 ^h 46								
S 5	23 20 42	18 ^h 14'42"	21 ^h 12	13 ^h 52	7 ^h 25	20 ^h 25	15 ^h 22	13 ^h 19	21 ^h 54	26 ^h 2	20 ^h 49	25 ^h 48	25 ^h 29	26 ^h 29	9 ^h 44								
S 6	23 24 38	19 ^h 13'34"	4 ^h B'16	14 ^h 57	8 ^h 34	21 ^h 1	15 ^h 35	13 ^h 15	21 ^h 52	26 ^h 2	20 ^h 48	25 ^h 39	25 ^h 26	26 ^h 36	9 ^h 42								
M 7	23 28 35	20 ^h 12'27"	17 ^h 32	16 ^h 1	9 ^h 44	21 ^h 37	15 ^h 47	13 ^h 12	21 ^h 50	26 ^h 3	20 ^h 47	25 ^h 33	25 ^h 23	26 ^h 43	9 ^h 40								
T 8	23 32 32	21 ^h 11'23"	0 ^h II'59	17 ^h 2	10 ^h 53	22 ^h 13	16 ^h 0	13 ^h 9	21 ^h 48	26 ^h 3	20 ^h 46	25 ^h 30	25 ^h 19	26 ^h 49	9 ^h 38								
W 9	23 36 28	22 ^h 10'22"	14 ^h 39	18 ^h 1	12 ^h 3	22 ^h 48	16 ^h 12	13 ^h 6	21 ^h 46	26 ^h 4	20 ^h 44	25 ^h 29	25 ^h 16	26 ^h 56	9 ^h 35								
T 10	23 40 25	23 ^h 9'22"	28 ^h 32	18 ^h 57	13 ^h 13	23 ^h 24	16 ^h 25	13 ^h 3	21 ^h 44	26 ^h 4	20 ^h 43	25 ^h 29	25 ^h 13	27 ^h 3	9 ^h 34								
F 11	23 44 21	24 ^h 8'25"	12 ^h ☉39	19 ^h 50	14 ^h 23	24 ^h 0	16 ^h 37	13 ^h 0	21 ^h 42	26 ^h 5	20 ^h 42	25 ^h 29	25 ^h 10	27 ^h 9	9 ^h 32								
S 12	23 48 18	25 ^h 7'31"	27 ^h 0	20 ^h 40	15 ^h 33	24 ^h 35	16 ^h 50	12 ^h 58	21 ^h 40	26 ^h 5	20 ^h 41	25 ^h 26	25 ^h 7	27 ^h 16	9 ^h 30								
S 13	23 52 14	26 ^h 6'39"	11 ^h Ω32	21 ^h 26	16 ^h 44	25 ^h 10	17 ^h 2	12 ^h 55	21 ^h 39	26 ^h 6	20 ^h 40	25 ^h 22	25 ^h 3	27 ^h 23	9 ^h 28								
M14	23 56 11	27 ^h 5'49"	26 ^h 10	22 ^h 9	17 ^h 54	25 ^h 46	17 ^h 15	12 ^h 52	21 ^h 37	26 ^h 6	20 ^h 39	25 ^h 14	25 ^h 0	27 ^h 29	9 ^h 26								
T 15	0 0 7	28 ^h 5'01"	10 ^h η48	22 ^h 47	19 ^h 5	26 ^h 21	17 ^h 28	12 ^h 50	21 ^h 35	26 ^h 6	20 ^h 37	25 ^h 4	24 ^h 57	27 ^h 36	9 ^h 24								
W16	0 4 4	29 ^h 4'16"	25 ^h 20	23 ^h 21	20 ^h 15	26 ^h 56	17 ^h 40	12 ^h 47	21 ^h 33	26 ^h 6	20 ^h 36	24 ^h 52	24 ^h 54	27 ^h 43	9 ^h 23								
T 17	0 8 1	0 ^h Ω 3'32"	9 ^h Ω37	23 ^h 50	21 ^h 26	27 ^h 31	17 ^h 53	12 ^h 45	21 ^h 32	26 ^h 7	20 ^h 35	24 ^h 40	24 ^h 51	27 ^h 49	9 ^h 21								
F 18	0 11 57	1 ^h 2'51"	23 ^h 33	24 ^h 14	22 ^h 37	28 ^h 5	18 ^h 6	12 ^h 43	21 ^h 30	26 ^h 7	20 ^h 34	24 ^h 29	24 ^h 48	27 ^h 56	9 ^h 19								
S 19	0 15 54	2 ^h 2'11"	7 ^h ℓ 6	24 ^h 32	23 ^h 48	28 ^h 40	18 ^h 19	12 ^h 41	21 ^h 28	26 ^h 7	20 ^h 33	24 ^h 20	24 ^h 44	28 ^h 3	9 ^h 18								
S 20	0 19 50	3 ^h 1'34"	20 ^h 13	24 ^h 43	25 ^h 0	29 ^h 15	18 ^h 32	12 ^h 38	21 ^h 27	26 ^h 7	20 ^h 31	24 ^h 13	24 ^h 41	28 ^h 9	9 ^h 16								
M21	0 23 47	4 ^h 0'59"	2 ^h X'57	24 ^h R48	26 ^h 11	29 ^h 49	18 ^h 45	12 ^h 36	21 ^h 25	26 ^h 7	20 ^h 30	24 ^h 9	24 ^h 38	28 ^h 16	9 ^h 15								
T 22	0 27 43	5 ^h 0'25"	15 ^h 19	24 ^h 45	27 ^h 22	0 ^h Ω24	18 ^h 57	12 ^h 35	21 ^h 23	26 ^h 7	20 ^h 29	24 ^h 8	24 ^h 35	28 ^h 23	9 ^h 14								
W23	0 31 40	5 ^h 59'53"	27 ^h 25	24 ^h 35	28 ^h 34	0 ^h 58	19 ^h 10	12 ^h 33	21 ^h 22	26 ^h R 7	20 ^h 28	24 ^h D 8	24 ^h 32	28 ^h 29	9 ^h 12								
T 24	0 35 36	6 ^h 59'23"	9 ^h ☾20	24 ^h 16	29 ^h 45	1 ^h 32	19 ^h 23	12 ^h 31	21 ^h 21	26 ^h 7	20 ^h 27	24 ^h R 8	24 ^h 29	28 ^h 36	9 ^h 11								
F 25	0 39 33	7 ^h 58'55"	21 ^h 10	23 ^h 49	0 ^h η57	2 ^h 6	19 ^h 36	12 ^h 29	21 ^h 19	26 ^h 7	20 ^h 26	24 ^h 7	24 ^h 25	28 ^h 43	9 ^h 10								
S 26	0 43 29	8 ^h 58'29"	2 ^h ≈59	23 ^h 14	2 ^h 9	2 ^h 40	19 ^h 49	12 ^h 28	21 ^h 18	26 ^h 7	20 ^h 25	24 ^h 4	24 ^h 22	28 ^h 49	9 ^h 9								
S 27	0 47 26	9 ^h 58'04"	14 ^h 53	22 ^h 30	3 ^h 21	3 ^h 14	20 ^h 2	12 ^h 27	21 ^h 16	26 ^h 7	20 ^h 23	23 ^h 59	24 ^h 19	28 ^h 56	9 ^h 8								
M28	0 51 23	10 ^h 57'41"	26 ^h 56	21 ^h 38	4 ^h 33	3 ^h 48	20 ^h 15	12 ^h 25	21 ^h 15	26 ^h 7	20 ^h 22	23 ^h 52	24 ^h 16	29 ^h 3	9 ^h 7								
T 29	0 55 19	11 ^h 57'20"	9 ^h X'12	20 ^h 39	5 ^h 45	4 ^h 21	20 ^h 28	12 ^h 24	21 ^h 14	26 ^h 7	20 ^h 21	23 ^h 42	24 ^h 13	29 ^h 9	9 ^h 6								
W30	0 59 16	12 ^h Ω57'01"	21 ^h X'42	19 ^h Ω33	6 ^h η57	4 ^h Ω55	20 ^h Ω41	12 ^h ≈23	21 ^h ≈13	26 ^h II 6	20 ^h X'20	23 ^h X'30	24 ^h X' 9	29 ^h ☾16	9 ^h ≈ 5								

Delta T = 19m38s Julian Calendar 1 Sept. 1080 == Greg. Calendar 7 Sept. 1080

OCTOBER 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	1 3 12	13 ^h Ω56'44"	4 ^h Y'28	18 ^h R22	8 ^h η 9	5 ^h Ω28	20 ^h Ω55	12 ^h R22	21 ^h R11	26 ^h R 6	20 ^h R19	23 ^h R18	24 ^h X' 6	29 ^h ☾23	9 ^h R 5								
F 2	1 7 9	14 ^h 56'29"	17 ^h 28	17 ^h Ω 8	9 ^h 22	6 ^h 1	21 ^h 8	12 ^h ≈21	21 ^h ≈10	26 ^h II 6	20 ^h X'18	23 ^h X' 6	24 ^h 3	29 ^h 29	9 ^h ≈ 4								
S 3	1 11 5	15 ^h 56'16"	0 ^h Ω43	15 ^h 52	10 ^h 34	6 ^h 34	21 ^h 21	12 ^h 20	21 ^h 9	26 ^h 5	20 ^h 17	22 ^h 55	24 ^h 0	29 ^h 36	9 ^h 3								
S 4	1 15 2	16 ^h 56'05"	14 ^h 10	14 ^h 38	11 ^h 47	7 ^h 7	21 ^h 34	12 ^h 19	21 ^h 8	26 ^h 5	20 ^h 16	22 ^h 47	23 ^h 57	29 ^h 43	9 ^h 3								
M 5	1 18 58	17 ^h 55'56"	27 ^h 47	13 ^h 26	13 ^h 0	7 ^h 40	21 ^h 47	12 ^h 19	21 ^h 7	26 ^h 5	20 ^h 15	22 ^h 42	23 ^h 54	29 ^h 50	9 ^h 2								
T 6	1 22 55	18 ^h 55'49"	11 ^h II'33	12 ^h 20	14 ^h 12	8 ^h 13	22 ^h 0	12 ^h 18	21 ^h 6	26 ^h 4	20 ^h 14	22 ^h 39	23 ^h 50	29 ^h 56	9 ^h 2								
W 7	1 26 52	19 ^h 55'45"	25 ^h 25	11 ^h 22	15 ^h 25	8 ^h 46	22 ^h 13	12 ^h 18	21 ^h 5	26 ^h 4	20 ^h 13	22 ^h D39	23 ^h 47	0 ^h ≈ 3	9 ^h 1								
T 8	1 30 48	20 ^h 55'43"	9 ^h ☾24	10 ^h 32	16 ^h 38	9 ^h 18	22 ^h 26	12 ^h 18	21 ^h 4	26 ^h 3	20 ^h 12	22 ^h 40	23 ^h 44	0 ^h 10	9 ^h 1								
F 9	1 34 45	21 ^h 55'43"	23 ^h 28	9 ^h 53	17 ^h 51	9 ^h 50	22 ^h 40	12 ^h 17	21 ^h 4	26 ^h 3	20 ^h 11	22 ^h R40	23 ^h 41	0 ^h 16	9 ^h 1								
S 10	1 38 41	22 ^h 55'45"	7 ^h Ω37	9 ^h 25	19 ^h 4	10 ^h 22	22 ^h 53	12 ^h D17	21 ^h 3	26 ^h 2	20 ^h 10	22 ^h 39	23 ^h 38	0 ^h 23	9 ^h 0								
S 11	1 42 38	23 ^h 55'50"	21 ^h 49	9 ^h 9	20 ^h 17	10 ^h 55	23 ^h 6	12 ^h 17	21 ^h 2	26 ^h 2	20 ^h 9	22 ^h 36	23 ^h 35	0 ^h 30	9 ^h 0								
M12	1 46 34	24 ^h 55'56"	6 ^h η 3	9 ^h D 4	21 ^h 31	11 ^h 26	23 ^h 19	12 ^h 17	21 ^h 2	26 ^h 1	20 ^h 8	22 ^h 30	23 ^h 31	0 ^h 36	9 ^h 0								
T 13	1 50 31	25 ^h 56'05"	20 ^h 14	9 ^h 10	22 ^h 44	11 ^h 58	23 ^h 32	12 ^h 18	21 ^h 1	26 ^h 0	20 ^h 7	22 ^h 23	23 ^h 28	0 ^h 43	9 ^h D 0								
W14	1 54 27	26 ^h 56'16"	4 ^h Ω18	9 ^h 27	23 ^h 57	12 ^h 30	23 ^h 45	12 ^h 18	21 ^h 0	26 ^h 0	20 ^h 6	22 ^h 13	23 ^h 25	0 ^h 50	9 ^h 0								
T 15	1 58 24	27 ^h 56'29"	18 ^h 11	9 ^h 54	25 ^h 11	13 ^h 1	23 ^h 59	12 ^h 18	21 ^h 0	25 ^h 59	20 ^h 5	22 ^h 4	23 ^h 22	0 ^h 56	9 ^h 0								
F 16	2 2 21	28 ^h 56'44"	1 ^h ℓ49	10 ^h 31	26 ^h 24	13 ^h 32	24 ^h 12	12 ^h 19	20 ^h 59	25 ^h 58	20 ^h 4	21 ^h 55	23 ^h 19	1 ^h 3	9 ^h 1								
S 17	2 6 17	29 ^h 57'00"	15 ^h 8	11 ^h 15																			

SWISS EPHEMERIS for the year 1080

NOVEMBER 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	3 5 25	15♌ 4'10	23♉20	0♌55	16♌ 8	21♏29	27♌40	12♌41	20♌59	25°R43	19°R52	21°R 2	22♌28	2♌50	9♌13
M 2	3 9 22	16° 4'50	7♌24	2°28	17°22	21°57	27°53	12°44	20°59	25♌41	19°H52	21°R 0	22°25	2°56	9°14
T 3	3 13 19	17° 5'32	21°37	4° 1	18°37	22°25	28° 6	12°46	21° 0	25°40	19°51	20°D59	22°21	3° 3	9°15
W 4	3 17 15	18° 6'15	5♉54	5°34	19°51	22°53	28°19	12°49	21° 0	25°39	19°51	21° 0	22°18	3°10	9°17
T 5	3 21 12	19° 7'00	20°12	7° 8	21° 6	23°20	28°31	12°51	21° 1	25°38	19°50	21° 1	22°15	3°16	9°18
F 6	3 25 8	20° 7'47	4♌27	8°42	22°20	23°48	28°44	12°54	21° 1	25°36	19°50	21° 3	22°12	3°23	9°20
S 7	3 29 5	21° 8'35	18°38	10°16	23°35	24°15	28°57	12°57	21° 2	25°35	19°49	21°R 4	22° 9	3°30	9°22
S 8	3 33 1	22° 9'24	2♌42	11°50	24°50	24°42	29°10	12°59	21° 3	25°34	19°49	21° 3	22° 6	3°36	9°23
M 9	3 36 58	23°10'15	16°39	13°24	26° 4	25° 8	29°22	13° 2	21° 3	25°32	19°48	21° 1	22° 2	3°43	9°25
T 10	3 40 54	24°11'08	0♌26	14°58	27°19	25°35	29°35	13° 5	21° 4	25°31	19°48	20°58	21°59	3°50	9°27
W11	3 44 51	25°12'02	14° 4	16°32	28°34	26° 1	29°47	13° 9	21° 5	25°29	19°47	20°55	21°56	3°57	9°29
T 12	3 48 48	26°12'57	27°29	18° 6	29°48	26°26	0♌ 0	13°12	21° 6	25°28	19°47	20°50	21°53	4° 3	9°31
F 13	3 52 44	27°13'54	10♌40	19°40	1♌ 3	26°52	0°12	13°15	21° 7	25°27	19°47	20°47	21°50	4°10	9°33
S 14	3 56 41	28°14'51	23°38	21°14	2°18	27°17	0°25	13°19	21° 8	25°25	19°46	20°44	21°46	4°17	9°35
S 15	4 0 37	29°15'50	6♌70	22°48	3°33	27°42	0°37	13°22	21° 9	25°24	19°46	20°42	21°43	4°23	9°37
M16	4 4 34	0♌16'50	18°48	24°22	4°48	28° 7	0°49	13°26	21°10	25°22	19°46	20°D41	21°40	4°30	9°39
T 17	4 8 30	1°17'51	1♉ 3	25°56	6° 3	28°31	1° 2	13°29	21°11	25°21	19°45	20°41	21°37	4°37	9°41
W18	4 12 27	2°18'53	13° 6	27°30	7°18	28°55	1°14	13°33	21°12	25°19	19°45	20°43	21°34	4°43	9°43
T 19	4 16 23	3°19'55	25° 1	29° 4	8°33	29°19	1°26	13°37	21°14	25°18	19°45	20°44	21°31	4°50	9°46
F 20	4 20 20	4°20'58	6♌51	0♌38	9°48	29°43	1°38	13°41	21°15	25°16	19°45	20°46	21°27	4°57	9°48
S 21	4 24 17	5°22'02	18°40	2°13	11° 3	0♌ 6	1°50	13°45	21°16	25°14	19°45	20°47	21°24	5° 3	9°50
S 22	4 28 13	6°23'06	0♌34	3°47	12°18	0°29	2° 2	13°49	21°18	25°13	19°45	20°48	21°21	5°10	9°53
M23	4 32 10	7°24'11	12°37	5°21	13°33	0°51	2°14	13°53	21°19	25°11	19°44	20°R48	21°18	5°17	9°56
T 24	4 36 6	8°25'16	24°53	6°55	14°48	1°13	2°26	13°58	21°21	25°10	19°44	20°47	21°15	5°23	9°58
W25	4 40 3	9°26'21	7♌77	8°30	16° 3	1°35	2°38	14° 2	21°22	25° 8	19°44	20°46	21°12	5°30	10° 1
T 26	4 43 59	10°27'27	20°23	10° 4	17°18	1°57	2°50	14° 6	21°24	25° 6	19°44	20°45	21° 8	5°37	10° 3
F 27	4 47 56	11°28'33	3♉43	11°39	18°33	2°18	3° 1	14°11	21°25	25° 5	19°44	20°43	21° 5	5°43	10° 6
S 28	4 51 52	12°29'40	17°27	13°14	19°48	2°39	3°13	14°16	21°27	25° 3	19°D44	20°42	21° 2	5°50	10° 9
S 29	4 55 49	13°30'47	1♌34	14°49	21° 3	2°59	3°24	14°20	21°29	25° 1	19°44	20°41	20°59	5°57	10°12
M30	4 59 46	14°31'55	16♌ 1	16♌24	22♌18	3♌19	3♌36	14°25	21°31	25° 0	19°H44	20°D41	20°56	6♌ 3	10°15

Delta T = 19m37s Julian Calendar 1 Nov. 1080 == Greg. Calendar 7 Nov. 1080

DECEMBER 1080 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	5 3 42	15♌33'03	0♉40	17♌59	23♌33	3♌39	3♌47	14°30	21°32	24°R58	19°H44	20°R41	20°52	6♌10	10°18
W 2	5 7 39	16°34'12	15°27	19°35	24°48	3°58	3°59	14°35	21°34	24°H56	19°44	20°41	20°49	6°17	10°21
T 3	5 11 35	17°35'21	0♌12	21°10	26° 3	4°17	4°10	14°40	21°36	24°55	19°44	20°42	20°46	6°24	10°24
F 4	5 15 32	18°36'31	14°51	22°46	27°19	4°36	4°21	14°45	21°38	24°53	19°45	20°42	20°43	6°30	10°27
S 5	5 19 28	19°37'41	29°18	24°22	28°34	4°54	4°32	14°50	21°40	24°51	19°45	20°42	20°40	6°37	10°30
S 6	5 23 25	20°38'52	13♌29	25°59	29°49	5°11	4°43	14°55	21°42	24°50	19°45	20°42	20°37	6°44	10°33
M 7	5 27 21	21°40'04	27°22	27°35	1♌ 4	5°28	4°54	15° 0	21°44	24°48	19°45	20°42	20°33	6°50	10°36
T 8	5 31 18	22°41'16	10♌58	29°12	2°19	5°45	5° 5	15° 6	21°46	24°46	19°45	20°42	20°30	6°57	10°40
W 9	5 35 15	23°42'28	24°16	0♉49	3°34	6° 1	5°16	15°11	21°48	24°45	19°46	20°42	20°27	7° 4	10°43
T 10	5 39 11	24°43'41	7♌19	2°27	4°50	6°17	5°26	15°17	21°51	24°43	19°46	20°43	20°24	7°10	10°46
F 11	5 43 8	25°44'54	20° 7	4° 4	6° 5	6°33	5°37	15°22	21°53	24°41	19°46	20°43	20°21	7°17	10°50
S 12	5 47 4	26°46'07	2♌42	5°42	7°20	6°47	5°48	15°28	21°55	24°39	19°47	20°44	20°18	7°24	10°53
S 13	5 51 1	27°47'21	15° 6	7°20	8°35	7° 2	5°58	15°33	21°57	24°38	19°47	20°R44	20°14	7°30	10°57
M14	5 54 57	28°48'35	27°19	8°58	9°51	7°15	6° 8	15°39	22° 0	24°36	19°47	20°44	20°11	7°37	11° 0
T 15	5 58 54	29°49'48	9♉24	10°35	11° 6	7°29	6°19	15°45	22° 2	24°34	19°48	20°44	20° 8	7°44	11° 4
W16	6 2 51	0♉51'01	21°22	12°13	12°21	7°41	6°29	15°51	22° 5	24°33	19°48	20°43	20° 5	7°51	11° 7
T 17	6 6 47	1°52'15	3♌14	13°51	13°36	7°54	6°39	15°57	22° 7	24°31	19°49	20°41	20° 2	7°57	11°11
F 18	6 10 44	2°53'27	15° 4	15°29	14°52	8° 5	6°49	16° 3	22°10	24°29	19°49	20°39	19°58	8° 4	11°15
S 19	6 14 40	3°54'40	26°54	17° 6	16° 7	8°16	6°59	16° 9	22°12	24°28	19°50	20°37	19°55	8°11	11°18
S 20	6 18 37	4°55'51	8♌47	18°43	17°22	8°27	7° 8	16°15	22°15	24°26	19°50	20°35	19°52	8°17	11°22
M21	6 22 33	5°57'03	20°47	20°19	18°37	8°37	7°18	16°21	22°17	24°24	19°51	20°34	19°49	8°24	11°26
T 22	6 26 30	6°58'13	3♌ 7	21°55	19°53	8°46	7°27	16°27	22°20	24°23	19°51	20°D33	19°46	8°31	11°30
W23	6 30 26	7°59'23	15°28	23°29	21° 8	8°55	7°37	16°33	22°23	24°21	19°52	20°33	19°43	8°37	11°34
T 24	6 34 23	9° 0'32	28°18	25° 2	22°23	9° 3	7°46	16°40	22°25	24°19	19°52	20°34	19°39	8°44	11°37
F 25	6 38 19	10° 1'41	11♉31	26°34	23°38	9°10	7°55	16°46	22°28	24°18	19°53	20°36	19°36	8°51	11°41
S 26	6 42 16	11° 2'49	25°11	28° 3	24°54	9°17	8° 4	16°52	22°31	24°16	19°54	20°37	19°33	8°57	11°45
S 27	6 46 13	12° 3'56	9♌19	29°30	26° 9	9°23	8°13	16°59	22°34	24°14	19°54	20°38	19°30	9° 4	11°49
M28	6 50 9	13° 5'03	23°52	0♌54	27°24	9°29	8°22	17° 5	22°36	24°13	19°55	20°R39	19°27	9°11	11°53
T 29	6 54 6	14° 6'08	8♉46	2°14	28°39	9°34	8°31	17°12	22°39	24°11	19°56	20°38	19°24	9°17	11°57
W30	6 58 2	15° 7'13	23°53	3°30	29°55	9°38	8°40	17°18	22°42	24°10	19°56	20°36	19°20	9°24	12° 1
T 31	7 1 59	16° 8'18	9♌ 4	4°42	1♉10	9♌41	8♌48	17°25	22°45	24° 8	19°H57	20°R32	19°17	9°31	12° 5

Delta T = 19m37s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]