

SWISS EPHEMERIS for the year 1203

JANUARY 1203 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
W 1	7 7 39	17°31'12	6°03'33	2°23'23	18°47'18	8°R43	7°53'7	8°Y 9	5°R42	20°X 1	1°R 2	1°R 2	29°B34	24°M 6	18°R40	
T 2	7 11 35	18°32'16	20°03'32	3°53'20	20°1'3	8°II38	8°7'8	8°12	5°R40	20°3'1	1°R 1	0°II54	29°31	24°13	18°B39	
F 3	7 15 32	19°33'20	4°M 6	5°25'21	21°15'15	8°33	8°21	8°15	5°37	20°4	0°59	0°46	29°27	24°20	18°38	
S 4	7 19 28	20°34'23	17°14	6°57'22	22°29'8	8°30	8°35	8°18	5°35	20°5	0°58	0°40	29°24	24°26	18°37	
S 5	7 23 25	21°35'26	29°57	8°30'23	23°43'8	8°27	8°49	8°22	5°32	20°7	0°57	0°35	29°21	24°33	18°36	
M 6	7 27 22	22°36'28	12°A 19	10°3'24	24°56'8	8°25	9°3	8°25	5°29	20°8	0°55	0°32	29°18	24°40	18°35	
T 7	7 31 18	23°37'29	24°25	11°37'26	26°10'8	8°24	9°17	8°29	5°27	20°9	0°54	0°D32	29°15	24°46	18°34	
W 8	7 35 15	24°38'30	6°M 18	13°11'27	27°23'8	8°D24	9°31	8°33	5°24	20°11	0°52	0°32	29°11	24°53	18°33	
T 9	7 39 11	25°39'30	18°6	14°47'28	28°37'8	8°24	9°45	8°36	5°22	20°12	0°51	0°33	29°8	24°59	18°32	
F 10	7 43 8	26°40'29	29°53	16°22'29	29°50'8	8°25	9°59	8°40	5°19	20°14	0°50	0°R34	29°5	25°6	18°32	
S 11	7 47 4	27°41'28	11°A 4	17°59'1X	3°4	8°27	10°13	8°44	5°17	20°15	0°48	0°33	29°2	25°13	18°31	
S 12	7 51 1	28°42'26	23°44	19°36'2	17'8	8°30	10°28	8°48	5°14	20°17	0°47	0°30	28°59	25°19	18°30	
M13	7 54 57	29°43'23	5°B 54	21°14'3	3°31	8°33	10°42	8°53	5°11	20°18	0°45	0°25	28°56	25°26	18°30	
T 14	7 58 54	0°44'19	18°19	22°52'4	4°44	8°37	10°56	8°57	5°9	20°20	0°44	0°17	28°52	25°33	18°30	
W15	8 2 51	1°45'14	0°A 59	24°32'5	5°57	8°42	11°10	9°1	5°6	20°22	0°43	0°6	28°49	25°39	18°29	
T 16	8 6 47	2°46'08	13°53	26°12'7	10	8°47	11°25	9°6	5°4	20°23	0°41	29°B55	28°46	25°46	18°29	
F 17	8 10 44	3°47'00	27°2	27°52'8	8°23	8°53	11°39	9°10	5°1	20°25	0°40	29°43	28°43	25°53	18°29	
S 18	8 14 40	4°47'51	10°X 24	29°34'9	9°37	9°0	11°53	9°15	4°58	20°27	0°38	29°32	28°40	25°59	18°29	
S 19	8 18 37	5°48'41	23°56	1°A 16	10°50	9°7	12°8	9°20	4°56	20°28	0°37	29°24	28°37	26°6	18°28	
M20	8 22 33	6°49'29	7°Y 37	2°59'12	2	9°16	12°22	9°24	4°53	20°30	0°36	29°18	28°33	26°13	18°D28	
T 21	8 26 30	7°50'16	21°27	4°43'13	13°15	9°24	12°36	9°29	4°50	20°32	0°34	29°14	28°30	26°19	18°28	
W22	8 30 26	8°51'00	5°B 24	6°27'14	14°28	9°34	12°51	9°34	4°48	20°34	0°33	29°D13	28°27	26°26	18°29	
T 23	8 34 23	9°51'44	19°28	8°13'15	15°41	9°44	13°5	9°39	4°45	20°35	0°31	29°13	28°24	26°33	18°29	
F 24	8 38 20	10°52'25	3°II 38	9°59'16	16°53	9°54	13°19	9°44	4°43	20°37	0°30	29°R13	28°21	26°39	18°29	
S 25	8 42 16	11°53'05	17°54	11°46'18	6	10°5	13°34	9°50	4°40	20°39	0°29	29°12	28°17	26°46	18°29	
S 26	8 46 13	12°53'43	2°B 12	13°34'19	18	10°17	13°48	9°55	4°37	20°41	0°27	29°9	28°14	26°52	18°30	
M27	8 50 9	13°54'20	16°30	15°22'20	31	10°29	14°3	10°0	4°35	20°43	0°26	29°2	28°11	26°59	18°30	
T 28	8 54 6	14°54'55	0°A 42	17°12'21	43	10°42	14°17	10°6	4°32	20°45	0°25	28°53	28°8	27°6	18°31	
W29	8 58 2	15°55'28	14°43	19°2'22	55	10°55	14°31	10°11	4°30	20°47	0°23	28°41	28°5	27°12	18°31	
T 30	9 1 59	16°55'59	28°29	20°52'24	7	11°9	14°46	10°17	4°27	20°49	0°22	28°29	28°2	27°19	18°32	
F 31	9 5 55	17°56'29	11°M 55	22°44'25	X 19	11°II 23	15°0	10°Y 22	4°R 25	20°X 51	0°R 21	28°B 16	27°B 58	27°M 26	18°B 33	

Delta T = 12m07s Julian Calendar 1 Jan. 1203 == Greg. Calendar 8 Jan. 1203

FEBRUARY 1203 JC

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

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SWISS EPHEMERIS for the year 1203

MARCH 1203 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
S 1	11 0 16	16X58'34	3Ω 5	0°R16	29Y20	21II10	21∞50	13Y30	3°R22	21K53	29°R48	25°R 8	26Ω26	0X38	19Ω22									
S 2	11 4 12	17°58'08	15°39	0Y 2	0Ω29	21°35	22° 3	13°37	3Ω20	21°56	29Ω47	24Ω59	26°23	0°45	19°25									
M 3	11 8 9	18°57'39	27°57	29K40	1°37	22° 0	22°17	13°45	3°18	21°58	29°46	24°53	26°20	0°52	19°28									
T 4	11 12 5	19°57'09	10II 2	29°12	2°45	22°25	22°31	13°52	3°17	22° 0	29°45	24°50	26°17	0°58	19°30									
W 5	11 16 2	20°56'37	21°57	28°38	3°53	22°51	22°44	13°59	3°15	22° 2	29°44	24°D49	26°14	1° 5	19°33									
T 6	11 19 58	21°56'03	3X46	27°58	5° 0	23°17	22°58	14° 7	3°14	22° 5	29°43	24°49	26°10	1°12	19°36									
F 7	11 23 55	22°55'27	15°34	27°14	6° 7	23°43	23°11	14°14	3°12	22° 7	29°43	24°50	26° 7	1°18	19°39									
S 8	11 27 51	23°54'50	27°27	26°27	7°15	24° 9	23°25	14°21	3°11	22° 9	29°42	24°R50	26° 4	1°25	19°42									
S 9	11 31 48	24°54'10	9Ω30	25°37	8°22	24°36	23°38	14°29	3°10	22°11	29°41	24°49	26° 1	1°32	19°45									
M10	11 35 45	25°53'29	21°48	24°46	9°28	25° 2	23°51	14°36	3° 8	22°14	29°41	24°45	25°58	1°38	19°48									
T 11	11 39 41	26°52'46	4Ω25	23°54	10°35	25°29	24° 4	14°43	3° 7	22°16	29°40	24°40	25°54	1°45	19°51									
W12	11 43 38	27°52'01	17°25	23° 4	11°41	25°56	24°18	14°51	3° 6	22°18	29°39	24°32	25°51	1°51	19°54									
T 13	11 47 34	28°51'14	0K49	22°15	12°48	26°24	24°31	14°58	3° 5	22°20	29°39	24°23	25°48	1°58	19°57									
F 14	11 51 31	29°50'25	14°37	21°28	13°54	26°51	24°44	15° 6	3° 4	22°23	29°38	24°14	25°45	2° 5	20° 0									
S 15	11 55 27	0Y49'35	28°44	20°45	14°59	27°19	24°57	15°13	3° 2	22°25	29°37	24° 5	25°42	2°11	20° 4									
S 16	11 59 24	1°48'42	13Y 7	20° 6	16° 5	27°47	25°10	15°21	3° 1	22°27	29°37	23°58	25°39	2°18	20° 7									
M17	12 3 20	2°47'47	27°39	19°32	17°10	28°15	25°23	15°28	3° 1	22°30	29°36	23°53	25°35	2°25	20°10									
T 18	12 7 17	3°46'49	12Ω13	19° 2	18°15	28°43	25°35	15°36	3° 0	22°32	29°36	23°50	25°32	2°31	20°14									
W19	12 11 13	4°45'50	26°45	18°37	19°20	29°11	25°48	15°44	2°59	22°34	29°35	23°D50	25°29	2°38	20°17									
T 20	12 15 10	5°44'48	11II 9	18°18	20°24	29°40	26° 1	15°51	2°58	22°36	29°35	23°51	25°26	2°45	20°21									
F 21	12 19 7	6°43'44	25°23	18° 4	21°28	0Ω 9	26°14	15°59	2°57	22°38	29°35	23°52	25°23	2°51	20°24									
S 22	12 23 3	7°42'38	9Ω25	17°56	22°32	0°37	26°26	16° 7	2°56	22°41	29°34	23°R52	25°20	2°58	20°28									
S 23	12 27 0	8°41'29	23°14	17°D53	23°36	1° 6	26°39	16°14	2°56	22°43	29°34	23°51	25°16	3° 5	20°31									
M24	12 30 56	9°40'18	6Ω51	17°55	24°39	1°36	26°51	16°22	2°55	22°45	29°34	23°48	25°13	3°11	20°35									
T 25	12 34 53	10°39'04	20°15	18° 3	25°42	2° 5	27° 3	16°29	2°55	22°47	29°33	23°43	25°10	3°18	20°39									
W26	12 38 49	11°37'48	3II27	18°16	26°45	2°34	27°16	16°37	2°54	22°49	29°33	23°37	25° 7	3°25	20°42									
T 27	12 42 46	12°36'30	16°25	18°33	27°48	3° 4	27°28	16°45	2°54	22°52	29°33	23°30	25° 4	3°31	20°46									
F 28	12 46 42	13°35'10	29°11	18°55	28°50	3°34	27°40	16°52	2°53	22°54	29°32	23°23	25° 0	3°38	20°50									
S 29	12 50 39	14°33'48	11Ω43	19°22	29°51	4° 3	27°52	17° 0	2°53	22°56	29°32	23°17	24°57	3°44	20°54									
S 30	12 54 36	15°32'24	24° 3	19°53	0II53	4°33	28° 4	17° 8	2°53	22°58	29°32	23°12	24°54	3°51	20°57									
M31	12 58 32	16Y30'57	6II12	20K28	1II54	5Ω 4	28∞16	17Y16	2Ω53	23K 0	29Ω32	23Ω 8	24Ω51	3X58	21Ω 1									

Delta T = 12m06s Julian Calendar 1 March 1203 == Greg. Calendar 8 March 1203

APRIL 1203 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
T 1	13 2 29	17Y29'29	18II11	21K 7	2II54	5Ω34	28∞27	17Y23	2°R52	23K 2	29°R32	23Ω 7	24Ω48	4X 4	21Ω 5									
W 2	13 6 25	18°28'00	0X 3	21°50	3°55	6° 4	28°39	17°31	2Ω52	23° 4	29Ω32	23° 7	24°45	4°11	21° 9									
T 3	13 10 22	19°26'28	11°51	22°36	4°55	6°35	28°51	17°39	2°52	23° 6	29°32	23° 8	24°41	4°18	21°13									
F 4	13 14 18	20°24'55	23°39	23°26	5°54	7° 5	29° 2	17°46	2°D52	23° 9	29°32	23°10	24°38	4°24	21°17									
S 5	13 18 15	21°23'20	5Ω32	24°19	6°53	7°36	29°14	17°54	2°52	23°11	29°D32	23°12	24°35	4°31	21°21									
S 6	13 22 11	22°21'44	17°35	25°16	7°52	8° 7	29°25	18° 2	2°52	23°13	29°32	23°R13	24°32	4°38	21°25									
M 7	13 26 8	23°20'05	29°52	26°15	8°50	8°38	29°36	18° 9	2°52	23°15	29°32	23°13	24°29	4°44	21°29									
T 8	13 30 5	24°18'26	12∞28	27°17	9°48	9° 9	29°48	18°17	2°53	23°17	29°32	23°11	24°26	4°51	21°33									
W 9	13 34 1	25°16'44	25°27	28°22	10°45	9°40	29°59	18°25	2°53	23°19	29°32	23° 9	24°22	4°58	21°38									
T 10	13 37 58	26°15'01	8K51	29°29	11°42	10°11	0K10	18°32	2°53	23°21	29°32	23° 5	24°19	5° 4	21°42									
F 11	13 41 54	27°13'17	22°42	0Y39	12°38	10°43	0°20	18°40	2°54	23°23	29°32	23° 1	24°16	5°11	21°46									
S 12	13 45 51	28°11'30	6Y58	1°51	13°34	11°14	0°31	18°48	2°54	23°25	29°32	22°58	24°13	5°18	21°50									
S 13	13 49 47	29° 9'42	21°34	3° 6	14°29	11°46	0°42	18°55	2°55	23°27	29°32	22°55	24°10	5°24	21°54									
M14	13 53 44	0Ω 7'53	6Ω25	4°23	15°24	12°18	0°52	19° 3	2°55	23°29	29°33	22°53	24° 6	5°31	21°59									
T 15	13 57 40	1° 6'02	21°22	5°43	16°18	12°49	1° 3	19°10	2°56	23°30	29°33	22°D52	24° 3	5°37	22° 3									
W16	14 1 37	2° 4'08	6II17	7° 5	17°12	13°21	1°13	19°18	2°56	23°32	29°33	22°53	24° 0	5°44	22° 7									
T 17	14 5 34	3° 2'14	21° 3	8°28	18° 5	13°53	1°24	19°26	2°57	23°34	29°33	22°54	23°57	5°51	22°11									
F 18	14 9 30	4° 0'17	5Ω34	9°54	18°57	14°26	1°34	19°33	2°58	23°36	29°34	22°55	23°54	5°57	22°16									
S 19	14 13 27	4°58'18	19°48	11°23	19°49	14°58	1°44	19°41	2°59	23°38	29°34	22°56	23°51	6° 4	22°20									
S 20	14 17 23	5°56'17	3Ω14	12°53	20°40	15°30	1°54	19°48	2°59	23°40	29°34	22°R57	23°47	6°11	22°25									
M21	14 21 20	6°54'14	17°14	14°25	21°30	16° 2	2° 3	19°56	3° 0	23°41	29°35	22°56	23°44	6°17	22°29									
T 22	14 25 16	7°52'10	0II27	15°59	22°19	16°35	2°13	20° 3	3° 1	23°43	29°35	22°55	23°41	6°24	22°33									
W23	14 29 13	8°50'03	13°24	17°36	23° 8	17° 7	2°23	20°10	3° 2	23°45	29°36	22°54	23°38	6°31	22°38									
T 24	14 33 9	9°47'54	26° 4	19°14	23°56	17°40	2°32	20°18	3° 3	23°47	29°36	22°52	23°35	6°37	22°42									
F 25	14 37 6	10°45'44	8Ω32	20°54	24°43	18°13	2°41	20°25	3° 4	23°48	29°37	22°50	23°32	6°44	22°47									
S 26	14 41 3	11°43'32	20°47	22°37	25°29	18°46	2°51	20°33	3° 6	23°50	29°37	22°49	23°28	6°51	22°51									
S 27	14 44 59	12°41'19	2II53	24°21	26°15	19°18	3° 0	20°40	3° 7	23°52	29°38	22°48	23°25	6°57	22°									

SWISS EPHEMERIS for the year 1203

MAY 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	15 0 45	16♌32'11	20♌21	1♌40	29♈ 7	21♌31	3♌35	21♈ 9	3♌12	23♌58	29♌40	22♌48	23♌12	7♌24	23♌13	
F 2	15 4 42	17°29'51	2♌11	3°34	29°47	22° 4	3°43	21°16	3°14	24° 0	29°41	22°49	23° 9	7°30	23°18	
S 3	15 8 38	18°27'30	14° 6	5°31	0♌26	22°37	3°51	21°23	3°15	24° 1	29°42	22°49	23° 6	7°37	23°22	
S 4	15 12 35	19°25'08	26°10	7°30	1° 4	23°11	4° 0	21°31	3°17	24° 3	29°43	22°50	23° 3	7°44	23°27	
M 5	15 16 32	20°22'45	8♌27	9°30	1°41	23°44	4° 8	21°38	3°18	24° 4	29°43	22°50	23° 0	7°50	23°32	
T 6	15 20 28	21°20'20	21° 1	11°33	2°17	24°18	4°16	21°45	3°20	24° 5	29°44	22°R50	22°57	7°57	23°36	
W 7	15 24 25	22°17'55	3♌55	13°37	2°52	24°51	4°23	21°52	3°22	24° 7	29°45	22°50	22°53	8° 4	23°41	
T 8	15 28 21	23°15'28	17°15	15°42	3°25	25°25	4°31	21°59	3°23	24° 8	29°46	22°D50	22°50	8°10	23°45	
F 9	15 32 18	24°13'01	1♈ 0	17°50	3°56	25°59	4°38	22° 6	3°25	24°10	29°47	22°50	22°47	8°17	23°50	
S 10	15 36 14	25°10'33	15°12	19°58	4°27	26°33	4°46	22°13	3°27	24°11	29°48	22°50	22°44	8°24	23°54	
S 11	15 40 11	26° 8'04	29°47	22° 8	4°55	27° 7	4°53	22°19	3°29	24°12	29°48	22°50	22°41	8°30	23°59	
M12	15 44 7	27° 5'34	14♌43	24°19	5°23	27°41	5° 0	22°26	3°31	24°13	29°49	22°50	22°37	8°37	24° 3	
T 13	15 48 4	28° 3'03	29°50	26°30	5°48	28°15	5° 7	22°33	3°33	24°15	29°50	22°R50	22°34	8°44	24° 8	
W14	15 52 1	29° 0'31	15♈ 0	28°42	6°12	28°49	5°14	22°40	3°35	24°16	29°51	22°50	22°31	8°50	24°12	
T 15	15 55 57	29°57'58	0♌ 4	0♈54	6°35	29°23	5°20	22°46	3°37	24°17	29°52	22°50	22°28	8°57	24°17	
F 16	15 59 54	0♈55'24	14°53	3° 6	6°55	29°57	5°27	22°53	3°39	24°18	29°53	22°49	22°25	9° 4	24°21	
S 17	16 3 50	1°52'49	29°21	5°17	7°14	0♌32	5°33	23° 0	3°41	24°19	29°54	22°48	22°22	9°10	24°26	
S 18	16 7 47	2°50'12	13♌24	7°28	7°31	1° 6	5°39	23° 6	3°43	24°21	29°56	22°47	22°18	9°17	24°30	
M19	16 11 43	3°47'35	27° 2	9°38	7°46	1°41	5°45	23°13	3°46	24°22	29°57	22°47	22°15	9°24	24°35	
T 20	16 15 40	4°44'56	10♈15	11°47	7°58	2°15	5°51	23°19	3°48	24°23	29°58	22°D46	22°12	9°30	24°39	
W21	16 19 36	5°42'16	23° 5	13°55	8° 9	2°50	5°56	23°25	3°50	24°24	29°59	22°47	22° 9	9°37	24°44	
T 22	16 23 33	6°39'34	5♌36	16° 1	8°18	3°24	6° 2	23°32	3°52	24°25	0♌ 0	22°48	22° 6	9°44	24°48	
F 23	16 27 30	7°36'52	17°53	18° 5	8°24	3°59	6° 7	23°38	3°55	24°26	0° 1	22°49	22° 3	9°50	24°53	
S 24	16 31 26	8°34'09	29°57	20° 7	8°28	4°34	6°12	23°44	3°57	24°27	0° 2	22°50	21°59	9°57	24°57	
S 25	16 35 23	9°31'25	11♈53	22° 8	8°R30	5° 8	6°17	23°50	4° 0	24°27	0° 4	22°51	21°56	10° 3	25° 2	
M26	16 39 19	10°28'40	23°44	24° 6	8°29	5°43	6°22	23°57	4° 2	24°28	0° 5	22°R52	21°53	10°10	25° 6	
T 27	16 43 16	11°25'55	5♌32	26° 2	8°26	6°18	6°26	24° 3	4° 5	24°29	0° 6	22°51	21°50	10°17	25°11	
W28	16 47 12	12°23'09	17°21	27°56	8°21	6°53	6°31	24° 9	4° 7	24°30	0° 7	22°50	21°47	10°23	25°15	
T 29	16 51 9	13°20'23	29°11	29°48	8°13	7°28	6°35	24°15	4°10	24°31	0° 9	22°47	21°43	10°30	25°19	
F 30	16 55 5	14°17'36	11♌ 6	1♌37	8° 3	8° 3	6°39	24°21	4°13	24°31	0°10	22°44	21°40	10°37	25°24	
S 31	16 59 2	15°14'48	23♌ 7	3♌24	7♌51	8♌38	6♌43	24°V26	4♌15	24°H32	0♌11	22°H41	21°H37	10°H43	25°H28	

Delta T = 12m06s Julian Calendar 1 May 1203 == Greg. Calendar 8 May 1203

JUNE 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	17 2 59	16♈12'00	5♌16	5♌ 9	7°R36	9♌14	6♌47	24°V32	4♌18	24°H33	0♌13	22°R37	21°H34	10°H50	25°H32	
M 2	17 6 55	17° 9'12	17°38	6°52	7♌19	9°49	6°50	24°38	4°21	24°33	0°14	22°H34	21°31	10°57	25°37	
T 3	17 10 52	18° 6'24	0♌13	8°32	6°59	10°24	6°54	24°43	4°24	24°34	0°15	22°32	21°28	11° 3	25°41	
W 4	17 14 48	19° 3'36	13° 7	10° 9	6°38	10°59	6°57	24°49	4°27	24°35	0°17	22°31	21°24	11°10	25°45	
T 5	17 18 45	20° 0'47	26°20	11°44	6°14	11°35	7° 0	24°54	4°29	24°35	0°18	22°D31	21°21	11°17	25°50	
F 6	17 22 41	20°57'59	9♈57	13°17	5°48	12°10	7° 3	25° 0	4°32	24°36	0°20	22°32	21°18	11°23	25°54	
S 7	17 26 38	21°55'10	23°58	14°48	5°20	12°46	7° 6	25° 5	4°35	24°36	0°21	22°33	21°15	11°30	25°58	
S 8	17 30 34	22°52'22	8♌23	16°16	4°50	13°21	7° 8	25°11	4°38	24°37	0°22	22°34	21°12	11°37	26° 2	
M 9	17 34 31	23°49'33	23° 9	17°41	4°19	13°57	7°10	25°16	4°41	24°37	0°24	22°R35	21° 9	11°43	26° 6	
T 10	17 38 28	24°46'45	8♈11	19° 4	3°46	14°33	7°12	25°21	4°44	24°37	0°25	22°34	21° 5	11°50	26°11	
W11	17 42 24	25°43'57	23°21	20°24	3°12	15° 8	7°14	25°26	4°47	24°38	0°27	22°32	21° 2	11°57	26°15	
T 12	17 46 21	26°41'08	8♌30	21°42	2°37	15°44	7°16	25°31	4°50	24°38	0°28	22°28	20°59	12° 3	26°19	
F 13	17 50 17	27°38'20	23°28	22°58	2° 1	16°20	7°17	25°36	4°54	24°38	0°30	22°23	20°56	12°10	26°23	
S 14	17 54 14	28°35'31	8♌ 6	24°10	1°24	16°56	7°19	25°41	4°57	24°39	0°32	22°18	20°53	12°17	26°27	
S 15	17 58 10	29°32'42	22°20	25°20	0°47	17°32	7°20	25°46	5° 0	24°39	0°33	22°13	20°49	12°23	26°31	
M16	18 2 7	0♌29'52	6♈ 4	26°27	0° 9	18° 8	7°21	25°50	5° 3	24°39	0°35	22° 9	20°46	12°30	26°35	
T 17	18 6 4	1°27'03	19°21	27°31	29♈32	18°44	7°21	25°55	5° 6	24°39	0°36	22° 7	20°43	12°37	26°39	
W18	18 10 0	2°24'13	2♌12	28°32	28°55	19°20	7°22	26° 0	5°10	24°39	0°38	22°D 6	20°40	12°43	26°43	
T 19	18 13 57	3°21'23	14°42	29°30	28°18	19°56	7°22	26° 4	5°13	24°39	0°39	22° 7	20°37	12°50	26°47	
F 20	18 17 53	4°18'32	26°53	0♌25	27°42	20°32	7°R23	26° 8	5°16	24°40	0°41	22° 8	20°34	12°56	26°51	
S 21	18 21 50	5°15'42	8♈53	1°17	27° 7	21° 9	7°22	26°13	5°19	24°R40	0°43	22°10	20°30	13° 3	26°55	
S 22	18 25 46	6°12'52	20°44	2° 5	26°33	21°45	7°22	26°17	5°23	24°40	0°44	22°R11	20°27	13°10	26°58	
M23	18 29 43	7°10'02	2♌32	2°50	26° 1	22°21	7°22	26°21	5°26	24°40	0°46	22°10	20°24	13°16	27° 2	
T 24	18 33 39	8° 7'12	14°20	3°30	25°30	22°58	7°21	26°25	5°30	24°39	0°48	22° 7	20°21	13°23	27° 6	
W25	18 37 36	9° 4'22	26°10	4° 8	25° 0	23°34	7°20	26°29	5°33	24°39	0°49	22° 3	20°18	13°30	27°10	
T 26	18 41 33	10° 1'33	8♌ 6	4°41	24°33	24°11	7°19	26°33	5°36	24°39	0°51	21°56	20°15	13°36	27°13	
F 27	18 45 29	10°58'43	20° 9	5°10	24° 8	24°47	7°18	26°37	5°40	24°39	0°53	21°48	20°11	13°43	27°17	
S 28	18 49 26	11°55'55	2♌21	5°34	23°44	25°24	7°17	26°40	5°43	24°39	0°54	21°39	20° 8	13°50	27°20	
S 29	18 53 22	12°53'07	14°43	5°55	23°23	26° 0	7°15	26°44	5°47	24°39	0°56	21°30	20° 5	13°56	27°24	
M30	18 57 19	13°50'19	27♌15	6♌10	23♈ 5	26°H37	7°H13	26°V48	5♌50	24°H38	0♌58	21°H22	20°H 2	14°H 3	27°H27	

Delta T = 12m06s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 1203

JULY 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
T 1	19 1 15	14 ⁵ 47'32	10 ^Ⅹ 0	6 [♁] 21	22 [°] R48	27 [♁] 14	7 [°] R11	26 [♂] 51	5 [♁] 54	24 [°] R38	1 [♁] 0	21 [°] R15	19 [♁] 59	14 [♂] 10	27 [♁] 31
W 2	19 5 12	15 [°] 44'46	22 [°] 58	6 [°] 28	22 ^Ⅱ 34	27 [°] 51	7 ^Ⅹ 9	26 [°] 54	5 [°] 57	24 ^Ⅹ 38	1 [°] 1	21 [♁] 11	19 [°] 55	14 [°] 16	27 [°] 34
T 3	19 9 8	16 [°] 42'00	6 [♂] 12	6 [°] R29	22 [°] 22	28 [°] 27	7 [°] 7	26 [°] 58	6 [°] 1	24 [°] 37	1 [°] 3	21 [°] 9	19 [°] 52	14 [°] 23	27 [°] 38
F 4	19 13 5	17 [°] 39'16	19 [°] 44	6 [°] 26	22 [°] 13	29 [°] 4	7 [°] 4	27 [°] 1	6 [°] 5	24 [°] 37	1 [°] 5	21 [°] D 8	19 [°] 49	14 [°] 30	27 [°] 41
S 5	19 17 2	18 [°] 36'32	3 [♁] 35	6 [°] 17	22 [°] 6	29 [°] 41	7 [°] 2	27 [°] 4	6 [°] 8	24 [°] 37	1 [°] 6	21 [°] 9	19 [°] 46	14 [°] 36	27 [°] 44
S 6	19 20 58	19 [°] 33'50	17 [°] 46	6 [°] 4	22 [°] 2	0 [♁] 18	6 [°] 59	27 [°] 7	6 [°] 12	24 [°] 36	1 [°] 8	21 [°] R 9	19 [°] 43	14 [°] 43	27 [°] 48
M 7	19 24 55	20 [°] 31'08	2 ^Ⅱ 16	5 [°] 45	21 [°] D59	0 [°] 55	6 [°] 56	27 [°] 10	6 [°] 15	24 [°] 36	1 [°] 10	21 [°] 9	19 [°] 40	14 [°] 50	27 [°] 51
T 8	19 28 51	21 [°] 28'28	17 [°] 2	5 [°] 22	22 [°] 0	1 [°] 32	6 [°] 52	27 [°] 13	6 [°] 19	24 [°] 35	1 [°] 12	21 [°] 6	19 [°] 36	14 [°] 56	27 [°] 54
W 9	19 32 48	22 [°] 25'48	1 [♁] 58	4 [°] 55	22 [°] 2	2 [°] 10	6 [°] 49	27 [°] 15	6 [°] 23	24 [°] 35	1 [°] 14	21 [°] 2	19 [°] 33	15 [°] 3	27 [°] 57
T 10	19 36 44	23 [°] 23'10	16 [°] 57	4 [°] 23	22 [°] 7	2 [°] 47	6 [°] 45	27 [°] 18	6 [°] 26	24 [°] 34	1 [°] 15	20 [°] 55	19 [°] 30	15 [°] 10	28 [°] 0
F 11	19 40 41	24 [°] 20'32	1 [♁] 49	3 [°] 48	22 [°] 14	3 [°] 24	6 [°] 41	27 [°] 20	6 [°] 30	24 [°] 33	1 [°] 17	20 [°] 46	19 [°] 27	15 [°] 16	28 [°] 3
S 12	19 44 38	25 [°] 17'55	16 [°] 26	3 [°] 9	22 [°] 23	4 [°] 1	6 [°] 37	27 [°] 23	6 [°] 34	24 [°] 33	1 [°] 19	20 [°] 36	19 [°] 24	15 [°] 23	28 [°] 6
S 13	19 48 34	26 [°] 15'18	0 [♁] 40	2 [°] 27	22 [°] 34	4 [°] 39	6 [°] 33	27 [°] 25	6 [°] 37	24 [°] 32	1 [°] 21	20 [°] 26	19 [°] 21	15 [°] 30	28 [°] 9
M14	19 52 31	27 [°] 12'43	14 [°] 29	1 [°] 43	22 [°] 47	5 [°] 16	6 [°] 29	27 [°] 27	6 [°] 41	24 [°] 31	1 [°] 22	20 [°] 18	19 [°] 17	15 [°] 36	28 [°] 12
T 15	19 56 27	28 [°] 10'08	27 [°] 49	0 [°] 58	23 [°] 3	5 [°] 53	6 [°] 24	27 [°] 29	6 [°] 45	24 [°] 31	1 [°] 24	20 [°] 13	19 [°] 14	15 [°] 43	28 [°] 15
W16	20 0 24	29 [°] 7'33	10 [♁] 42	0 [°] 12	23 [°] 20	6 [°] 31	6 [°] 19	27 [°] 31	6 [°] 48	24 [°] 30	1 [°] 26	20 [°] 9	19 [°] 11	15 [°] 50	28 [°] 18
T 17	20 4 20	0 [♁] 5'00	23 [°] 13	29 [♁] 26	23 [°] 39	7 [°] 8	6 [°] 15	27 [°] 33	6 [°] 52	24 [°] 29	1 [°] 28	20 [°] 7	19 [°] 8	15 [°] 56	28 [°] 20
F 18	20 8 17	1 [°] 2'27	5 [♁] 25	28 [°] 42	23 [°] 59	7 [°] 46	6 [°] 10	27 [°] 35	6 [°] 56	24 [°] 28	1 [°] 30	20 [°] D 7	19 [°] 5	16 [°] 3	28 [°] 23
S 19	20 12 13	1 [°] 59'55	17 [°] 23	27 [°] 59	24 [°] 22	8 [°] 24	6 [°] 4	27 [°] 37	6 [°] 59	24 [°] 27	1 [°] 31	20 [°] R 8	19 [°] 1	16 [°] 10	28 [°] 26
S 20	20 16 10	2 [°] 57'24	29 [°] 14	27 [°] 19	24 [°] 46	9 [°] 1	5 [°] 59	27 [°] 38	7 [°] 3	24 [°] 27	1 [°] 33	20 [°] 7	18 [°] 58	16 [°] 16	28 [°] 28
M21	20 20 6	3 [°] 54'54	11 [♂] 2	26 [°] 42	25 [°] 12	9 [°] 39	5 [°] 53	27 [°] 40	7 [°] 7	24 [°] 26	1 [°] 35	20 [°] 5	18 [°] 55	16 [°] 23	28 [°] 31
T 22	20 24 3	4 [°] 52'25	22 [°] 51	26 [°] 10	25 [°] 39	10 [°] 17	5 [°] 48	27 [°] 41	7 [°] 11	24 [°] 25	1 [°] 37	20 [°] 1	18 [°] 52	16 [°] 30	28 [°] 33
W23	20 28 0	5 [°] 49'56	4 [♁] 46	25 [°] 42	26 [°] 8	10 [°] 55	5 [°] 42	27 [°] 42	7 [°] 14	24 [°] 24	1 [°] 38	19 [°] 54	18 [°] 49	16 [°] 36	28 [°] 36
T 24	20 31 56	6 [°] 47'29	16 [°] 50	25 [°] 20	26 [°] 39	11 [°] 33	5 [°] 36	27 [°] 44	7 [°] 18	24 [°] 23	1 [°] 40	19 [°] 45	18 [°] 46	16 [°] 43	28 [°] 38
F 25	20 35 53	7 [°] 45'03	29 [°] 4	25 [°] 5	27 [°] 11	12 [°] 10	5 [°] 30	27 [°] 45	7 [°] 22	24 [°] 22	1 [°] 42	19 [°] 33	18 [°] 42	16 [°] 50	28 [°] 40
S 26	20 39 49	8 [°] 42'38	11 [♁] 30	24 [°] 55	27 [°] 44	12 [°] 48	5 [°] 24	27 [°] 46	7 [°] 25	24 [°] 21	1 [°] 44	19 [°] 21	18 [°] 39	16 [°] 56	28 [°] 43
S 27	20 43 46	9 [°] 40'15	24 [°] 8	24 [°] D53	28 [°] 18	13 [°] 26	5 [°] 18	27 [°] 47	7 [°] 29	24 [°] 20	1 [°] 46	19 [°] 8	18 [°] 36	17 [°] 3	28 [°] 45
M28	20 47 42	10 [°] 37'52	6 [♁] 58	24 [°] 58	28 [°] 54	14 [°] 4	5 [°] 11	27 [°] 47	7 [°] 33	24 [°] 19	1 [°] 47	18 [°] 56	18 [°] 33	17 [°] 10	28 [°] 47
T 29	20 51 39	11 [°] 35'31	19 [°] 59	25 [°] 10	29 [°] 31	14 [°] 43	5 [°] 5	27 [°] 48	7 [°] 37	24 [°] 18	1 [°] 49	18 [°] 46	18 [°] 30	17 [°] 16	28 [°] 49
W30	20 55 36	12 [°] 33'12	3 [♂] 12	25 [°] 29	0 [♁] 9	15 [°] 21	4 [°] 58	27 [°] 48	7 [°] 40	24 [°] 17	1 [°] 51	18 [°] 39	18 [°] 27	17 [°] 23	28 [°] 51
T 31	20 59 32	13 [♁] 30'54	16 [♂] 36	25 [♁] 56	0 [♁] 49	15 [♁] 59	4 [♁] 51	27 [♂] 49	7 [♁] 44	24 [♁] 15	1 [♁] 53	18 [♁] 35	18 [♁] 23	17 [♁] 30	28 [♁] 53

Delta T = 12m05s

Julian Calendar 1 July 1203 == Greg. Calendar 8 July 1203

AUGUST 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
F 1	21 3 29	14 [♁] 28'38	0 [♁] 12	26 [♁] 30	1 [♁] 29	16 [♁] 37	4 [°] R44	27 [♂] 49	7 [♁] 48	24 [°] R14	1 [♁] 54	18 [°] R33	18 [♁] 20	17 [♂] 36	28 [♁] 55
S 2	21 7 25	15 [°] 26'24	14 [°] 1	27 [°] 11	2 [°] 11	17 [°] 16	4 [♁] 37	27 [°] 49	7 [°] 51	24 ^Ⅹ 13	1 [°] 56	18 [♁] 33	18 [°] 17	17 [°] 43	28 [°] 57
S 3	21 11 22	16 [°] 24'11	28 [°] 3	28 [°] 0	2 [°] 53	17 [°] 54	4 [°] 30	27 [°] 50	7 [°] 55	24 [°] 12	1 [°] 58	18 [°] 32	18 [°] 14	17 [°] 50	28 [°] 59
M 4	21 15 18	17 [°] 22'01	12 ^Ⅱ 18	28 [°] 56	3 [°] 37	18 [°] 32	4 [°] 23	27 [°] R50	7 [°] 59	24 [°] 11	2 [°] 0	18 [°] 31	18 [°] 11	17 [°] 56	29 [°] 0
T 5	21 19 15	18 [°] 19'52	26 [°] 44	29 [°] 58	4 [°] 21	19 [°] 11	4 [°] 16	27 [°] 50	8 [°] 3	24 [°] 9	2 [°] 1	18 [°] 28	18 [°] 7	18 [°] 3	29 [°] 2
W 6	21 23 11	19 [°] 17'45	11 [♁] 18	1 [♁] 7	5 [°] 7	19 [°] 49	4 [°] 8	27 [°] 49	8 [°] 6	24 [°] 8	2 [°] 3	18 [°] 22	18 [°] 4	18 [°] 10	29 [°] 4
T 7	21 27 8	20 [°] 15'39	25 [°] 55	2 [°] 22	5 [°] 53	20 [°] 28	4 [°] 1	27 [°] 49	8 [°] 10	24 [°] 7	2 [°] 5	18 [°] 14	18 [°] 1	18 [°] 16	29 [°] 5
F 8	21 31 5	21 [°] 13'36	10 [♁] 28	3 [°] 42	6 [°] 40	21 [°] 7	3 [°] 53	27 [°] 49	8 [°] 14	24 [°] 5	2 [°] 7	18 [°] 3	17 [°] 58	18 [°] 23	29 [°] 7
S 9	21 35 1	22 [°] 11'34	24 [°] 49	5 [°] 8	7 [°] 28	21 [°] 45	3 [°] 46	27 [°] 48	8 [°] 17	24 [°] 4	2 [°] 8	17 [°] 51	17 [°] 55	18 [°] 30	29 [°] 8
S 10	21 38 58	23 [°] 9'33	8 [♁] 53	6 [°] 39	8 [°] 16	22 [°] 24	3 [°] 38	27 [°] 47	8 [°] 21	24 [°] 3	2 [°] 10	17 [°] 40	17 [°] 52	18 [°] 36	29 [°] 9
M11	21 42 54	24 [°] 7'34	22 [°] 35	8 [°] 15	9 [°] 6	23 [°] 3	3 [°] 30	27 [°] 47	8 [°] 24	24 [°] 1	2 [°] 12	17 [°] 30	17 [°] 48	18 [°] 43	29 [°] 11
T 12	21 46 51	25 [°] 5'37	5 [♁] 54	9 [°] 54	9 [°] 56	23 [°] 42	3 [°] 22	27 [°] 46	8 [°] 28	24 [°] 0	2 [°] 13	17 [°] 22	17 [°] 45	18 [°] 50	29 [°] 12
W13	21 50 47	26 [°] 3'41	18 [°] 45	11 [°] 37	10 [°] 47	24 [°] 20	3 [°] 15	27 [°] 45	8 [°] 32	23 [°] 59	2 [°] 15	17 [°] 17	17 [°] 42	18 [°] 56	29 [°] 13
T 14	21 54 44	27 [°] 1'46	1 [♁] 16	13 [°] 23	11 [°] 38	24 [°] 59	3 [°] 7	27 [°] 44	8 [°] 35	23 [°] 57	2 [°] 17	17 [°] 14	17 [°] 39	19 [°] 3	29 [°] 14
F 15	21 58 40	27 [°] 59'53	13 [°] 29	15 [°] 12	12 [°] 30	25 [°] 38	2 [°] 59	27 [°] 43	8 [°] 39	23 [°] 56	2 [°] 18	17 [°] D13	17 [°] 36	19 [°] 10	29 [°] 15
S 16	22 2 37	28 [°] 58'01	25 [°] 28	17 [°] 3	13 [°] 23	26 [°] 17	2 [°] 51	27 [°] 41	8 [°] 42	23 [°] 54	2 [°] 20	17 [°] R13	17 [°] 33	19 [°] 16	29 [°]

SWISS EPHEMERIS for the year 1203

SEPTEMBER 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	23 5 42	14 ^h 32'10	23 ^h II 4	17 ^h 13	28 ^h 40	6 ^h 49	0°R46	27°R 8	9 ^h 37	23°R29	2 ^h 44	15°R48	16 ^h 42	21 ^h 3	29°R22		
T 2	23 9 38	15°30'50	7 ^h 15	19° 1	29°41	7°29	0 ^h 38	27°Y 5	9°40	23 ^h 28	2°46	15 ^h 46	16°39	21°10	29 ^h 22		
W 3	23 13 35	16°29'33	21°28	20°47	0 ^h 42	8° 9	0°31	27° 2	9°43	23°26	2°47	15°42	16°35	21°16	29°22		
T 4	23 17 31	17°28'19	5 ^h 40	22°33	1°44	8°49	0°24	26°59	9°46	23°24	2°48	15°35	16°32	21°23	29°21		
F 5	23 21 28	18°27'06	19°46	24°18	2°46	9°29	0°16	26°56	9°49	23°23	2°50	15°27	16°29	21°30	29°21		
S 6	23 25 25	19°25'55	3 ^h 42	26° 1	3°49	10° 9	0° 9	26°52	9°52	23°21	2°51	15°17	16°26	21°36	29°21		
S 7	23 29 21	20°24'47	17°25	27°44	4°52	10°49	0° 2	26°49	9°56	23°19	2°52	15° 8	16°23	21°43	29°20		
M 8	23 33 18	21°23'40	0 ^h 50	29°26	5°55	11°29	29 ^h 55	26°46	9°59	23°18	2°54	15° 0	16°19	21°50	29°20		
T 9	23 37 14	22°22'36	13°56	1 ^h 7	6°58	12° 9	29°49	26°42	10° 2	23°16	2°55	14°54	16°16	21°56	29°19		
W10	23 41 11	23°21'33	26°41	2°47	8° 2	12°50	29°42	26°39	10° 5	23°14	2°56	14°50	16°13	22° 3	29°18		
T11	23 45 7	24°20'33	9 ^h 9	4°26	9° 6	13°30	29°35	26°35	10° 7	23°13	2°57	14°D48	16°10	22°10	29°17		
F12	23 49 4	25°19'34	21°20	6° 4	10°10	14°11	29°29	26°31	10°10	23°11	2°59	14°48	16° 7	22°16	29°16		
S13	23 53 0	26°18'37	3 ^h 20	7°41	11°15	14°51	29°23	26°28	10°13	23° 9	3° 0	14°49	16° 4	22°23	29°16		
S14	23 56 57	27°17'43	15°12	9°18	12°20	15°32	29°16	26°24	10°16	23° 8	3° 1	14°50	16° 0	22°30	29°15		
M15	0 0 54	28°16'49	27° 1	10°54	13°25	16°12	29°10	26°20	10°19	23° 6	3° 2	14°R51	15°57	22°36	29°13		
T16	0 4 50	29°15'58	8 ^h 54	12°28	14°30	16°53	29° 5	26°16	10°22	23° 4	3° 3	14°50	15°54	22°43	29°12		
W17	0 8 47	0 ^h 15'09	20°54	14° 2	15°36	17°34	28°59	26°12	10°24	23° 3	3° 4	14°48	15°51	22°50	29°11		
T18	0 12 43	1°14'21	3 ^h 7	15°36	16°42	18°14	28°53	26° 8	10°27	23° 1	3° 6	14°44	15°48	22°56	29°10		
F19	0 16 40	2°13'35	15°36	17° 8	17°48	18°55	28°48	26° 3	10°30	22°59	3° 7	14°38	15°44	23° 3	29° 9		
S20	0 20 36	3°12'51	28°24	18°40	18°54	19°36	28°43	25°59	10°32	22°58	3° 8	14°31	15°41	23°10	29° 7		
S21	0 24 33	4°12'09	11 ^h 32	20°11	20° 1	20°17	28°38	25°55	10°35	22°56	3° 9	14°24	15°38	23°16	29° 6		
M22	0 28 29	5°11'29	25° 0	21°41	21° 7	20°58	28°33	25°51	10°37	22°54	3°10	14°18	15°35	23°23	29° 4		
T23	0 32 26	6°10'51	8 ^h Y46	23°10	22°14	21°39	28°28	25°46	10°40	22°53	3°11	14°12	15°32	23°30	29° 3		
W24	0 36 23	7°10'15	22°47	24°39	23°22	22°20	28°23	25°42	10°42	22°51	3°12	14° 9	15°29	23°36	29° 1		
T25	0 40 19	8° 9'41	6 ^h 58	26° 6	24°29	23° 1	28°19	25°37	10°45	22°50	3°12	14° 7	15°25	23°43	28°59		
F26	0 44 16	9° 9'10	21°15	27°33	25°37	23°42	28°15	25°33	10°47	22°48	3°13	14°D 7	15°22	23°50	28°58		
S27	0 48 12	10° 8'40	5 ^h II34	29° 0	26°45	24°23	28°10	25°28	10°49	22°46	3°14	14° 8	15°19	23°56	28°56		
S28	0 52 9	11° 8'13	19°51	0 ^h ML25	27°53	25° 5	28° 7	25°24	10°52	22°45	3°15	14°10	15°16	24° 3	28°54		
M29	0 56 5	12° 7'49	4 ^h 5	1°49	29° 1	25°46	28° 3	25°19	10°54	22°43	3°16	14°11	15°13	24°10	28°52		
T30	1 0 2	13 ^h 7'27	18 ^h 13	3 ^h ML13	0 ^h Y 9	26°42	27°59	25°Y14	10°56	22°42	3°17	14°R11	15°10	24°16	28°50		

Delta T = 12m05s Julian Calendar 1 Sept. 1203 == Greg. Calendar 8 Sept. 1203

OCTOBER 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	1 3 58	14 ^h 7'07	2 ^h 13	4 ^h ML36	1 ^h 18	27°49	27°R56	25°R10	10°58	22°R40	3°17	14°R10	15 ^h 6	24°23	28°R48		
T 2	1 7 55	15° 6'50	16° 4	5°58	2°27	27°50	27°53	25°Y 5	11° 0	22 ^h 39	3°18	14 ^h 7	15° 3	24°30	28 ^h 46		
F 3	1 11 52	16° 6'34	29°45	7°19	3°36	28°32	27°50	25° 0	11° 2	22°37	3°19	14° 3	15° 0	24°36	28°44		
S 4	1 15 48	17° 6'21	13 ^h 15	8°38	4°45	29°14	27°47	24°56	11° 4	22°36	3°20	13°59	14°57	24°43	28°41		
S 5	1 19 45	18° 6'10	26°31	9°57	5°54	29°55	27°45	24°51	11° 6	22°34	3°20	13°55	14°54	24°50	28°39		
M 6	1 23 41	19° 6'01	9 ^h 33	11°14	7° 4	0 ^h ML37	27°42	24°46	11° 8	22°33	3°21	13°51	14°50	24°56	28°37		
T 7	1 27 38	20° 5'55	22°20	12°30	8°14	1°19	27°40	24°41	11°10	22°31	3°22	13°48	14°47	25° 3	28°34		
W 8	1 31 34	21° 5'50	4 ^h ML53	13°45	9°23	2° 1	27°38	24°36	11°12	22°30	3°22	13°47	14°44	25°10	28°32		
T 9	1 35 31	22° 5'47	17°12	14°58	10°33	2°43	27°36	24°31	11°14	22°29	3°23	13°D47	14°41	25°17	28°30		
F10	1 39 27	23° 5'46	29°18	16°10	11°43	3°24	27°35	24°27	11°16	22°27	3°23	13°47	14°38	25°23	28°27		
S11	1 43 24	24° 5'47	11 ^h 16	17°19	12°54	4° 6	27°33	24°22	11°17	22°26	3°24	13°49	14°35	25°30	28°24		
S12	1 47 21	25° 5'49	23° 7	18°26	14° 4	4°49	27°32	24°17	11°19	22°24	3°24	13°51	14°31	25°37	28°22		
M13	1 51 17	26° 5'54	4 ^h 35	19°31	15°15	5°31	27°31	24°12	11°20	22°23	3°25	13°52	14°28	25°43	28°19		
T14	1 55 14	27° 6'00	16°47	20°34	16°25	6°13	27°30	24° 7	11°22	22°22	3°25	13°53	14°25	25°50	28°16		
W15	1 59 10	28° 6'07	28°46	21°34	17°36	6°55	27°30	24° 2	11°23	22°21	3°26	13°R53	14°22	25°57	28°14		
T16	2 3 7	29° 6'16	10 ^h 57	22°30	18°47	7°37	27°30	23°58	11°25	22°19	3°26	13°53	14°19	26° 3	28°11		
F17	2 7 3	0 ^h ML 6'27	23°25	23°23	19°58	8°20	27°D29	23°53	11°26	22°18	3°26	13°52	14°16	26°10	28° 8		
S18	2 11 0	1° 6'39	6 ^h 13	24°12	21° 9	9° 2	27°30	23°48	11°28	22°17	3°27	13°50	14°12	26°17	28° 5		
S19	2 14 56	2° 6'53	19°24	24°56	22°20	9°44	27°30	23°43	11°29	22°16	3°27	13°49	14° 9	26°23	28° 2		
M20	2 18 53	3° 7'08	3 ^h Y 0	25°35	23°32	10°27	27°30	23°38	11°30	22°14	3°27	13°47	14° 6	26°30	27°59		
T21	2 22 49	4° 7'25	16°59	26° 9	24°43	11° 9	27°31	23°34	11°31	22°13	3°27	13°46	14° 3	26°37	27°56		
W22	2 26 46	5° 7'44	1 ^h 819	26°36	25°55	11°52	27°32	23°29	11°32	22°12	3°28	13°45	14° 0	26°43	27°53		
T23	2 30 43	6° 8'04	15°55	26°57	27° 7	12°35	27°33	23°24	11°33	22°11	3°28	13°D45	13°56	26°50	27°50		
F24	2 34 39	7° 8'27	0 ^h II39	27°10	28°18	13°17	27°34	23°20	11°34	22°10	3°28	13°45	13°53	26°57	27°47		
S25	2 38 36	8° 8'51	15°26	27°R15	29°30	14° 0	27°36	23°15	11°35	22° 9	3°28	13°46	13°50	27° 3	27°44		
S26	2 42 32	9° 9'17	0 ^h 59	27°11	0 ^h 42	14°43	27°38	23°11	11°36	22° 8	3°28	13°46	13°47	27°10	27°41		
M27	2 46 29	10° 9'45	14°40	26°57	1°55	15°26	27°39	23° 6	11°37	22° 7	3°28	13°47	13°44	27°17	27°38		
T28	2 50 25	11°10'15	28°58	26°33	3° 7	16° 9	27°42	23° 2	11°38	22° 6	3°28	13°47	13°41	27°23	27°35		
W29	2 54 22	12°10'46	12 ^h 58	25°59	4°19	16°52	27°44	22°57	11°39	22° 5	3°R28	13°R47	13°37	27°30	27°31		
T30	2 58 19	13°11'20	26°41	25°15	5°32	17°35	27°46	22°53	11°39	22° 4	3°28	13°47	13°34	27°37	27°28		
F31	3 2 15	14 ^h ML11'55	10 ^h 6	24 ^h ML20	6 ^h 44	18 ^h ML18	27°49	22°Y48	11°40	22 ^h 3	3°28	13°D47	13 ^h 31	27°43	27 ^h 25		

Delta T = 12m05s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1203

NOVEMBER 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	3 6 12	15♁12'32	23♁14	23°R17	7♁57	19♁ 1	27♁52	22°R44	11♁40	22°R 2	3°R28	13♁47	13♁28	27♁50	27°R22		
S 2	3 10 8	16°13'11	6♁ 8	22♁ 5	9°10	19°44	27°55	22°Y40	11°41	22°R 2	3♁28	13°47	13°25	27°57	27°R18		
M 3	3 14 5	17°13'51	18°47	20°48	10°22	20°27	27°58	22°36	11°41	22° 1	3°28	13°48	13°21	28° 4	27°15		
T 4	3 18 1	18°14'33	1♁15	19°27	11°35	21°11	28° 2	22°32	11°42	22° 0	3°28	13°48	13°18	28°10	27°12		
W 5	3 21 58	19°15'17	13°31	18° 6	12°48	21°54	28° 5	22°27	11°42	21°59	3°28	13°R48	13°15	28°17	27° 8		
T 6	3 25 54	20°16'02	25°39	16°45	14° 1	22°37	28° 9	22°23	11°42	21°59	3°27	13°48	13°12	28°24	27° 5		
F 7	3 29 51	21°16'48	7♁38	15°30	15°14	23°21	28°13	22°20	11°43	21°58	3°27	13°47	13° 9	28°30	27° 2		
S 8	3 33 48	22°17'36	19°32	14°21	16°27	24° 4	28°18	22°16	11°43	21°57	3°27	13°46	13° 6	28°37	26°58		
S 9	3 37 44	23°18'25	1♁22	13°21	17°41	24°48	28°22	22°12	11°43	21°57	3°27	13°45	13° 2	28°44	26°55		
M10	3 41 41	24°19'15	13°11	12°31	18°54	25°31	28°27	22° 8	11°43	21°56	3°26	13°43	12°59	28°50	26°51		
T 11	3 45 37	25°20'06	25° 2	11°52	20° 7	26°15	28°32	22° 5	11°R43	21°56	3°26	13°42	12°56	28°57	26°48		
W12	3 49 34	26°20'58	6♁59	11°25	21°21	26°59	28°37	22° 1	11°43	21°55	3°26	13°41	12°53	29° 4	26°45		
T 13	3 53 30	27°21'51	19° 7	11° 9	22°34	27°43	28°42	21°57	11°43	21°55	3°25	13°40	12°50	29°10	26°41		
F 14	3 57 27	28°22'45	1♁30	11°D 4	23°48	28°26	28°47	21°54	11°43	21°54	3°25	13°D40	12°47	29°17	26°38		
S 15	4 1 23	29°23'39	14°11	11°10	25° 1	29°10	28°53	21°51	11°42	21°54	3°24	13°40	12°43	29°24	26°34		
S 16	4 5 20	0♁24'35	27°16	11°26	26°15	29°54	28°58	21°47	11°42	21°53	3°24	13°41	12°40	29°30	26°31		
M17	4 9 17	1°25'31	10°Y47	11°51	27°29	0♁38	29° 4	21°44	11°42	21°53	3°23	13°43	12°37	29°37	26°28		
T 18	4 13 13	2°26'28	24°45	12°23	28°42	1°22	29°10	21°41	11°41	21°53	3°23	13°44	12°34	29°44	26°24		
W19	4 17 10	3°27'25	9♁10	13° 3	29°56	2° 6	29°17	21°38	11°41	21°52	3°22	13°R45	12°31	29°51	26°21		
T 20	4 21 6	4°28'24	23°57	13°50	1♁10	2°50	29°23	21°35	11°40	21°52	3°22	13°44	12°27	29°57	26°18		
F 21	4 25 3	5°29'24	9♁ 0	14°42	2°24	3°34	29°30	21°33	11°40	21°52	3°21	13°43	12°24	0♁ 4	26°14		
S 22	4 28 59	6°30'24	24°11	15°39	3°38	4°19	29°36	21°30	11°39	21°52	3°20	13°41	12°21	0°11	26°11		
S 23	4 32 56	7°31'26	9♁19	16°40	4°52	5° 3	29°43	21°27	11°39	21°52	3°20	13°37	12°18	0°17	26° 8		
M24	4 36 52	8°32'28	24°14	17°45	6° 6	5°47	29°50	21°25	11°38	21°52	3°19	13°34	12°15	0°24	26° 4		
T 25	4 40 49	9°33'31	8♁51	18°53	7°20	6°31	29°57	21°22	11°37	21°51	3°18	13°31	12°12	0°31	26° 1		
W26	4 44 46	10°34'36	23° 3	20° 5	8°34	7°16	0♁ 5	21°20	11°36	21°51	3°18	13°28	12° 8	0°37	25°58		
T 27	4 48 42	11°35'41	6♁50	21°19	9°48	8° 0	0°12	21°18	11°35	21°D51	3°17	13°D27	12° 5	0°44	25°54		
F 28	4 52 39	12°36'47	20°12	22°35	11° 3	8°45	0°20	21°16	11°35	21°51	3°16	13°27	12° 2	0°51	25°51		
S 29	4 56 35	13°37'54	3♁11	23°52	12°17	9°29	0°28	21°14	11°34	21°52	3°15	13°29	11°59	0°57	25°48		
S 30	5 0 32	14♁39'02	15♁51	25♁12	13♁31	10♁14	0♁36	21°Y12	11♁32	21°R52	3♁14	13♁30	11♁56	1♁ 4	25♁45		

Delta T = 12m04s Julian Calendar 1 Nov. 1203 == Greg. Calendar 8 Nov. 1203

DECEMBER 1203 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	5 4 28	15♁40'11	28♁15	26♁33	14♁45	10♁59	0♁44	21°R10	11°R31	21°R52	3°R13	13♁32	11♁53	1♁11	25°R42		
T 2	5 8 25	16°41'20	10♁27	27°55	16° 0	11°43	0°52	21°Y 8	11♁30	21°52	3♁13	13°R33	11°49	1°17	25♁38		
W 3	5 12 21	17°42'31	22°30	29°19	17°14	12°28	1° 1	21° 7	11°29	21°52	3°12	13°33	11°46	1°24	25°35		
T 4	5 16 18	18°43'41	4♁27	0♁43	18°29	13°13	1° 9	21° 5	11°28	21°52	3°11	13°30	11°43	1°31	25°32		
F 5	5 20 15	19°44'53	16°20	2° 8	19°43	13°58	1°18	21° 4	11°27	21°53	3°10	13°26	11°40	1°38	25°29		
S 6	5 24 11	20°46'04	28°11	3°34	20°57	14°43	1°27	21° 3	11°25	21°53	3° 9	13°21	11°37	1°44	25°26		
S 7	5 28 8	21°47'16	10♁ 1	5° 1	22°12	15°27	1°36	21° 1	11°24	21°53	3° 8	13°13	11°33	1°51	25°23		
M 8	5 32 4	22°48'29	21°52	6°28	23°26	16°12	1°45	21° 0	11°22	21°54	3° 7	13° 5	11°30	1°58	25°20		
T 9	5 36 1	23°49'41	3♁46	7°56	24°41	16°57	1°54	20°59	11°21	21°54	3° 6	12°57	11°27	2° 4	25°17		
W10	5 39 57	24°50'53	15°46	9°25	25°56	17°42	2° 4	20°59	11°19	21°55	3° 5	12°50	11°24	2°11	25°15		
T 11	5 43 54	25°52'05	27°55	10°54	27°10	18°28	2°13	20°58	11°18	21°55	3° 4	12°45	11°21	2°18	25°12		
F 12	5 47 50	26°53'17	10♁15	12°23	28°25	19°13	2°23	20°57	11°16	21°56	3° 3	12°41	11°18	2°24	25° 9		
S 13	5 51 47	27°54'29	22°51	13°53	29°39	19°58	2°33	20°57	11°15	21°56	3° 2	12°D39	11°14	2°31	25° 6		
S 14	5 55 44	28°55'41	5°Y47	15°23	0♁54	20°43	2°43	20°56	11°13	21°57	3° 1	12°39	11°11	2°38	25° 4		
M15	5 59 40	29°56'52	19° 7	16°54	2° 9	21°28	2°53	20°56	11°11	21°57	2°59	12°41	11° 8	2°45	25° 1		
T 16	6 3 37	0♁58'03	2♁53	18°25	3°23	22°14	3° 3	20°56	11° 9	21°58	2°58	12°42	11° 5	2°51	24°58		
W17	6 7 33	1°59'14	17° 7	19°57	4°38	22°59	3°13	20°D56	11° 8	21°59	2°57	12°R42	11° 2	2°58	24°56		
T 18	6 11 30	3° 0'25	1♁48	21°28	5°53	23°44	3°24	20°56	11° 6	21°59	2°56	12°40	10°59	3° 5	24°53		
F 19	6 15 26	4° 1'35	16°51	23° 1	7° 7	24°30	3°34	20°56	11° 4	22° 0	2°55	12°37	10°55	3°11	24°51		
S 20	6 19 23	5° 2'45	2♁ 8	24°33	8°22	25°15	3°45	20°57	11° 2	22° 1	2°54	12°30	10°52	3°18	24°49		
S 21	6 23 20	6° 3'55	17°28	26° 6	9°37	26° 1	3°56	20°57	11° 0	22° 2	2°52	12°22	10°49	3°25	24°46		
M22	6 27 16	7° 5'04	2♁41	27°40	10°51	26°46	4° 6	20°58	10°58	22° 3	2°51	12°14	10°46	3°31	24°44		
T 23	6 31 13	8° 6'14	17°36	29°14	12° 6	27°32	4°17	20°58	10°56	22° 3	2°50	12° 5	10°43	3°38	24°42		
W24	6 35 9	9° 7'23	2♁ 4	0♁48	13°21	28°18	4°28	20°59	10°54	22° 4	2°49	11°58	10°39	3°45	24°40		
T 25	6 39 6	10° 8'32	16° 3	2°23	14°36	29° 3	4°40	21° 0	10°52	22° 5	2°47	11°53	10°36	3°51	24°38		
F 26	6 43 2	11° 9'41	29°32	3°58	15°51	29°49	4°51	21° 1	10°50	22° 6	2°46	11°50	10°33	3°58	24°35		
S 27	6 46 59	12°10'49	12♁33	5°34	17° 5	0♁35	5° 2	21° 2	10°47	22° 7	2°45	11°D50	10°30	4° 5	24°33		
S 28	6 50 55	13°11'58	25°11	7°10	18°20	1°21	5°14	21° 3	10°45	22° 8	2°43	11°50	10°27	4°12	24°32		
M29	6 54 52	14°13'06	7♁30	8°47	19°35	2° 6	5°25	21° 4	10°43	22° 9	2°42	11°R51	10°24	4°18	24°30		
T 30	6 58 49	15°14'14	19°35	10°24	20°50	2°52	5°37	21° 6	10°41	22°11	2°41	11°51	10°20	4°25	24°28		
W31	7 2 45	16♁15'22	1♁30	12♁ 2	22♁ 5	3♁38	5♁49	21°Y 7	10♁38	22°R12	2♁39	11♁48	10♁17	4♁32	24♁26		

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