

SWISS EPHEMERIS for the year 1003

JANUARY 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♆	♄	♁	♁	♁	♁	♁
F 1	7 1 34	16♁ 4'09	17♏34	18°R26	2♁41	5♁50	23♁39	2°R21	14♁40	2♁11	13♏31	26°R32	27♁55	15♁35	8°R20	
S 2	7 5 30	17° 5'14	17♁41	17♁10	3°57	6°38	23°49	2♁16	14°42	2°13	13♏33	26♁27	27°52	15°42	8♁19	
S 3	7 9 27	18° 6'19	15°42	15°53	5°12	7°25	23°58	2°11	14°44	2°16	13°34	26°21	27°48	15°48	8°19	
M 4	7 13 24	19° 7'23	29°33	14°37	6°27	8°13	24° 8	2° 7	14°46	2°18	13°35	26°15	27°45	15°55	8°18	
T 5	7 17 20	20° 8'26	13♁10	13°25	7°42	9° 0	24°18	2° 2	14°49	2°20	13°36	26° 9	27°42	16° 2	8°18	
W 6	7 21 17	21° 9'29	26°31	12°18	8°57	9°48	24°28	1°58	14°51	2°22	13°38	26° 4	27°39	16° 9	8°17	
T 7	7 25 13	22°10'30	9♁34	11°17	10°12	10°35	24°38	1°53	14°53	2°24	13°39	26° 1	27°36	16°15	8°17	
F 8	7 29 10	23°11'30	22°18	10°25	11°27	11°22	24°48	1°49	14°56	2°26	13°40	26°D 0	27°33	16°22	8°17	
S 9	7 33 6	24°12'30	4♁45	9°40	12°42	12°10	24°58	1°44	14°58	2°29	13°41	26° 0	27°29	16°29	8°17	
S 10	7 37 3	25°13'27	16°57	9° 5	13°56	12°57	25° 9	1°40	15° 1	2°31	13°42	26° 1	27°26	16°35	8°17	
M11	7 40 59	26°14'24	28°57	8°38	15°11	13°45	25°19	1°36	15° 3	2°33	13°43	26° 3	27°23	16°42	8°16	
T 12	7 44 56	27°15'19	10♁50	8°20	16°26	14°32	25°30	1°31	15° 6	2°35	13°44	26° 5	27°20	16°49	8°D16	
W13	7 48 53	28°16'13	22°40	8°10	17°41	15°19	25°41	1°27	15° 8	2°37	13°45	26° 6	27°17	16°55	8°16	
T 14	7 52 49	29°17'06	4♁33	8°D 8	18°56	16° 7	25°52	1°23	15°11	2°39	13°46	26°R 6	27°14	17° 2	8°17	
F 15	7 56 46	0♁17'57	16°33	8°13	20°11	16°54	26° 3	1°19	15°13	2°41	13°47	26° 5	27°10	17° 9	8°17	
S 16	8 0 42	1°18'46	28°45	8°26	21°25	17°41	26°14	1°15	15°16	2°43	13°48	26° 2	27° 7	17°15	8°17	
S 17	8 4 39	2°19'34	11♏13	8°45	22°40	18°29	26°25	1°11	15°19	2°45	13°49	25°59	27° 4	17°22	8°17	
M18	8 8 35	3°20'21	24° 0	9°10	23°55	19°16	26°36	1° 7	15°22	2°47	13°50	25°56	27° 1	17°29	8°18	
T 19	8 12 32	4°21'06	7♁ 8	9°40	25°10	20° 3	26°47	1° 4	15°24	2°49	13°51	25°52	26°58	17°36	8°18	
W20	8 16 29	5°21'50	20°37	10°15	26°24	20°50	26°59	1° 0	15°27	2°51	13°51	25°49	26°54	17°42	8°19	
T 21	8 20 25	6°22'32	4♏25	10°55	27°39	21°38	27°11	0°56	15°30	2°53	13°52	25°47	26°51	17°49	8°19	
F 22	8 24 22	7°23'13	18°29	11°40	28°53	22°25	27°22	0°53	15°33	2°55	13°53	25°46	26°48	17°56	8°20	
S 23	8 28 18	8°23'52	2♏45	12°28	0♁ 8	23°12	27°34	0°49	15°36	2°57	13°54	25°D46	26°45	18° 2	8°21	
S 24	8 32 15	9°24'30	17° 8	13°19	1°23	23°59	27°46	0°46	15°39	2°59	13°54	25°47	26°42	18° 9	8°21	
M25	8 36 11	10°25'07	1♁33	14°14	2°37	24°47	27°58	0°43	15°41	3° 1	13°55	25°48	26°39	18°16	8°22	
T 26	8 40 8	11°25'42	15°57	15°12	3°52	25°34	28°10	0°40	15°44	3° 3	13°55	25°49	26°35	18°22	8°23	
W27	8 44 4	12°26'16	0♏15	16°13	5° 6	26°21	28°22	0°37	15°47	3° 5	13°56	25°50	26°32	18°29	8°24	
T 28	8 48 1	13°26'49	14°24	17°16	6°20	27° 8	28°34	0°34	15°50	3° 7	13°56	25°R50	26°29	18°36	8°25	
F 29	8 51 57	14°27'21	28°24	18°21	7°35	27°55	28°46	0°31	15°53	3° 9	13°57	25°50	26°26	18°42	8°26	
S 30	8 55 54	15°27'51	12♁12	19°29	8°49	28°42	28°59	0°28	15°57	3°10	13°57	25°49	26°23	18°49	8°27	
S 31	8 59 51	16♁28'20	25♁49	20♁39	10♁ 3	29♁29	29♁11	0♁25	16♁ 0	3♁12	13♏58	25♁48	26♁20	18♁56	8♁28	

Delta T = 26m03s

Julian Calendar 1 Jan. 1003 == Greg. Calendar 7 Jan. 1003

FEBRUARY 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♆	♄	♁	♁	♁	♁	♁
M 1	9 3 47	17♁28'48	9♁12	21♁51	11♁18	0♁16	29♁24	0°R23	16♁ 3	3♁14	13♏58	25°R47	26♁16	19♁ 3	8♁30	
T 2	9 7 44	18°29'14	22°22	23° 4	12°32	1° 3	29°36	0♁20	16° 6	3°16	13°58	25♁46	26°13	19° 9	8°31	
W 3	9 11 40	19°29'39	5♁18	24°20	13°46	1°50	29°49	0°18	16° 9	3°17	13°58	25°45	26°10	19°16	8°32	
T 4	9 15 37	20°30'01	18° 1	25°37	15° 0	2°37	0♁ 2	0°16	16°12	3°19	13°59	25°44	26° 7	19°23	8°34	
F 5	9 19 33	21°30'22	0♁31	26°55	16°15	3°24	0°14	0°13	16°15	3°21	13°59	25°D44	26° 4	19°29	8°35	
S 6	9 23 30	22°30'41	12°49	28°15	17°29	4°11	0°27	0°11	16°19	3°23	13°59	25°45	26° 0	19°36	8°37	
S 7	9 27 27	23°30'59	24°55	29°36	18°43	4°58	0°40	0° 9	16°22	3°24	13°59	25°45	25°57	19°43	8°39	
M 8	9 31 23	24°31'14	6♁53	0♁59	19°57	5°45	0°53	0° 8	16°25	3°26	13°59	25°45	25°54	19°49	8°40	
T 9	9 35 20	25°31'27	18°46	2°23	21°11	6°32	1° 6	0° 6	16°28	3°27	13°59	25°R45	25°51	19°56	8°42	
W10	9 39 16	26°31'39	0♁36	3°48	22°25	7°19	1°19	0° 4	16°31	3°29	13°R59	25°45	25°48	20° 3	8°44	
T 11	9 43 13	27°31'48	12°29	5°15	23°39	8° 6	1°32	0° 3	16°35	3°30	13°59	25°45	25°45	20°10	8°46	
F 12	9 47 9	28°31'55	24°28	6°43	24°52	8°52	1°46	0° 1	16°38	3°32	13°59	25°D45	25°41	20°16	8°47	
S 13	9 51 6	29°32'00	6♏37	8°12	26° 6	9°39	1°59	0° 0	16°41	3°33	13°59	25°45	25°38	20°23	8°49	
S 14	9 55 2	0♁32'03	19° 3	9°42	27°20	10°26	2°12	29♏59	16°45	3°35	13°59	25°45	25°35	20°30	8°51	
M15	9 58 59	1°32'03	1♁47	11°13	28°34	11°12	2°26	29°57	16°48	3°36	13°59	25°46	25°32	20°36	8°54	
T 16	10 2 56	2°32'02	14°55	12°46	29°47	11°59	2°39	29°56	16°51	3°38	13°59	25°46	25°29	20°43	8°56	
W17	10 6 52	3°31'58	28°28	14°19	1°♁ 1	12°46	2°53	29°56	16°55	3°39	13°58	25°47	25°26	20°50	8°58	
T 18	10 10 49	4°31'52	12♏26	15°54	2°14	13°32	3° 6	29°55	16°58	3°40	13°58	25°48	25°22	20°56	9° 0	
F 19	10 14 45	5°31'44	26°46	17°30	3°28	14°19	3°20	29°54	17° 2	3°42	13°58	25°R48	25°19	21° 3	9° 2	
S 20	10 18 42	6°31'34	11♏24	19° 7	4°41	15° 5	3°33	29°54	17° 5	3°43	13°58	25°47	25°16	21°10	9° 5	
S 21	10 22 38	7°31'22	26°14	20°46	5°55	15°52	3°47	29°53	17° 8	3°44	13°57	25°47	25°13	21°17	9° 7	
M22	10 26 35	8°31'08	11♁ 8	22°25	7° 8	16°38	4° 1	29°53	17°12	3°45	13°57	25°45	25°10	21°23	9°10	
T 23	10 30 31	9°30'52	25°58	24° 6	8°21	17°24	4°15	29°53	17°15	3°47	13°56	25°43	25° 6	21°30	9°12	
W24	10 34 28	10°30'34	10♏37	25°48	9°35	18°11	4°28	29°52	17°19	3°48	13°56	25°42	25° 3	21°37	9°15	
T 25	10 38 24	11°30'15	25° 0	27°31	10°48	18°57	4°42	29°D52	17°22	3°49	13°55	25°41	25° 0	21°43	9°17	
F 26	10 42 21	12°29'54	9♁ 3	29°15	12° 1	19°43	4°56	29°53	17°25	3°50	13°55	25°D40	24°57	21°50	9°20	
S 27	10 46 18	13°29'31	22°46	1♁ 1	13°14	20°30	5°10	29°53	17°29	3°51	13°54	25°40	24°54	21°57	9°23	
S 28	10 50 14	14♁29'06	6♁10	2♁48	14♁27	21♁16	5°♁24	29♏53	17♁32	3♁52	13♏54	25♁41	24♁51	22♁ 3	9♁25	

Delta T = 26m02s

Julian Calendar

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SWISS EPHEMERIS for the year 1003

MARCH 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	10 54 11	15X28'40	19Z15	4X36	15Y40	22X 2	5Y38	29II54	17X36	3Z53	13R53	25A42	24A47	22Y10	9Z28
T 2	10 58 7	16°28'12	2A 4	6°25	16°53	22°48	5°52	29°54	17°39	3°54	13M52	25°44	24°44	22°17	9°31
W 3	11 2 4	17°27'42	14°40	8°16	18° 6	23°34	6° 6	29°55	17°43	3°55	13°52	25°45	24°41	22°24	9°34
T 4	11 6 0	18°27'10	27° 4	10° 8	19°19	24°20	6°20	29°56	17°46	3°56	13°51	25°R46	24°38	22°30	9°37
F 5	11 9 57	19°26'35	9X17	12° 1	20°31	25° 6	6°34	29°56	17°49	3°57	13°50	25°45	24°35	22°37	9°40
S 6	11 13 53	20°25'59	21°23	13°56	21°44	25°52	6°48	29°57	17°53	3°58	13°49	25°43	24°32	22°44	9°43
S 7	11 17 50	21°25'21	3Y22	15°52	22°57	26°38	7° 3	29°59	17°56	3°59	13°49	25°40	24°28	22°50	9°46
M 8	11 21 47	22°24'41	15°17	17°49	24° 9	27°24	7°17	0Z 0	18° 0	4° 0	13°48	25°35	24°25	22°57	9°49
T 9	11 25 43	23°23'58	27° 8	19°47	25°22	28°10	7°31	0° 1	18° 3	4° 0	13°47	25°30	24°22	23° 4	9°52
W10	11 29 40	24°23'13	8Z59	21°46	26°34	28°55	7°45	0° 3	18° 7	4° 1	13°46	25°25	24°19	23°10	9°55
T11	11 33 36	25°22'26	20°51	23°47	27°46	29°41	7°59	0° 4	18°10	4° 2	13°45	25°21	24°16	23°17	9°58
F12	11 37 33	26°21'37	2II50	25°48	28°59	0Y27	8°14	0° 6	18°13	4° 2	13°44	25°17	24°12	23°24	10° 2
S13	11 41 29	27°20'45	14°58	27°50	0Z11	1°13	8°28	0° 7	18°17	4° 3	13°43	25°15	24° 9	23°31	10° 5
S14	11 45 26	28°19'51	27°19	29°54	1°23	1°58	8°42	0° 9	18°20	4° 4	13°42	25°D14	24° 6	23°37	10° 8
M15	11 49 22	29°18'55	9Z58	1Y58	2°35	2°44	8°57	0°11	18°24	4° 4	13°41	25°15	24° 3	23°44	10°12
T16	11 53 19	0Y17'56	23° 0	4° 2	3°47	3°29	9°11	0°13	18°27	4° 5	13°40	25°16	24° 0	23°51	10°15
W17	11 57 16	1°16'55	6Z27	6° 7	4°59	4°15	9°25	0°16	18°30	4° 5	13°39	25°17	23°57	23°57	10°19
T18	12 1 12	2°15'52	20°22	8°11	6°11	5° 0	9°40	0°18	18°34	4° 6	13°38	25°R18	23°53	24° 4	10°22
F19	12 5 9	3°14'46	4M44	10°16	7°22	5°45	9°54	0°20	18°37	4° 6	13°37	25°18	23°50	24°11	10°26
S20	12 9 5	4°13'38	19°31	12°20	8°34	6°31	10° 8	0°23	18°40	4° 7	13°36	25°16	23°47	24°17	10°29
S21	12 13 2	5°12'28	4Z35	14°23	9°46	7°16	10°23	0°25	18°44	4° 7	13°34	25°12	23°44	24°24	10°33
M22	12 16 58	6°11'16	19°49	16°25	10°57	8° 1	10°37	0°28	18°47	4° 7	13°33	25° 7	23°41	24°31	10°36
T23	12 20 55	7°10'02	5M 1	18°25	12° 9	8°46	10°52	0°31	18°50	4° 8	13°32	25° 1	23°37	24°38	10°40
W24	12 24 51	8° 8'46	20° 1	20°24	13°20	9°31	11° 6	0°34	18°54	4° 8	13°31	24°55	23°34	24°44	10°43
T25	12 28 48	9° 7'28	4X42	22°20	14°31	10°17	11°20	0°37	18°57	4° 8	13°29	24°49	23°31	24°51	10°47
F26	12 32 45	10° 6'09	18°58	24°14	15°42	11° 2	11°35	0°40	19° 0	4° 8	13°28	24°46	23°28	24°58	10°51
S27	12 36 41	11° 4'48	2Z46	26° 5	16°53	11°47	11°49	0°43	19° 3	4° 9	13°27	24°44	23°25	25° 4	10°55
S28	12 40 38	12° 3'25	16° 9	27°53	18° 4	12°31	12° 4	0°46	19° 7	4° 9	13°25	24°D43	23°22	25°11	10°58
M29	12 44 34	13° 2'01	29° 8	29°38	19°15	13°16	12°18	0°50	19°10	4° 9	13°24	24°44	23°18	25°18	11° 2
T30	12 48 31	14° 0'35	11A47	1Z19	20°26	14° 1	12°32	0°53	19°13	4° 9	13°23	24°45	23°15	25°25	11° 6
W31	12 52 27	14Y59'07	24A10	2Z55	21Z37	14Y46	12Y47	0Z57	19X16	4Z 9	13M21	24°R46	23A12	25Y31	11Z10

Delta T = 26m02s Julian Calendar 1 March 1003 == Greg. Calendar 7 March 1003

APRIL 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 56 24	15Y57'37	6X21	4Z28	22Z47	15Y31	13Y 1	1Z 1	19X19	4R 9	13R20	24R45	23A 9	25Y38	11Z14
F 2	13 0 20	16°56'06	18°23	5°56	23°58	16°15	13°16	1° 4	19°23	4Z 9	13M19	24A42	23° 6	25°45	11°18
S 3	13 4 17	17°54'32	0Y19	7°20	25° 8	17° 0	13°30	1° 8	19°26	4° 9	13°17	24°37	23° 3	25°51	11°22
S 4	13 8 14	18°52'57	12°12	8°40	26°19	17°45	13°44	1°12	19°29	4° 9	13°16	24°30	22°59	25°58	11°26
M 5	13 12 10	19°51'20	24° 3	9°54	27°29	18°29	13°59	1°16	19°32	4° 9	13°14	24°20	22°56	26° 5	11°29
T 6	13 16 7	20°49'41	5Z54	11° 4	28°39	19°14	14°13	1°20	19°35	4° 8	13°13	24° 9	22°53	26°11	11°33
W 7	13 20 3	21°48'01	17°47	12° 9	29°49	19°58	14°27	1°24	19°38	4° 8	13°11	23°58	22°50	26°18	11°37
T 8	13 24 0	22°46'18	29°43	13° 9	0II59	20°42	14°42	1°29	19°41	4° 8	13°10	23°48	22°47	26°25	11°41
F 9	13 27 56	23°44'34	11II44	14° 4	2° 9	21°27	14°56	1°33	19°44	4° 8	13° 8	23°39	22°43	26°32	11°46
S10	13 31 53	24°42'47	23°54	14°54	3°19	22°11	15°10	1°38	19°47	4° 8	13° 6	23°32	22°40	26°38	11°50
S11	13 35 49	25°40'58	6Z16	15°38	4°29	22°55	15°25	1°42	19°50	4° 7	13° 5	23°28	22°37	26°45	11°54
M12	13 39 46	26°39'08	18°52	16°17	5°38	23°39	15°39	1°47	19°53	4° 7	13° 3	23°26	22°34	26°52	11°58
T13	13 43 43	27°37'15	1Z49	16°51	6°47	24°24	15°53	1°52	19°56	4° 6	13° 2	23°D26	22°31	26°58	12° 2
W14	13 47 39	28°35'21	15° 8	17°20	7°57	25° 8	16° 7	1°56	19°59	4° 6	13° 0	23°26	22°28	27° 5	12° 6
T15	13 51 36	29°33'24	28°54	17°43	9° 6	25°52	16°22	2° 1	20° 1	4° 6	12°59	23R27	22°24	27°12	12°10
F16	13 55 32	0Z31'25	13M 7	18° 1	10°15	26°36	16°36	2° 6	20° 4	4° 5	12°57	23°25	22°21	27°19	12°14
S17	13 59 29	1°29'24	27°47	18°13	11°24	27°19	16°50	2°11	20° 7	4° 5	12°55	23°21	22°18	27°25	12°18
S18	14 3 25	2°27'22	12Z49	18°20	12°33	28° 3	17° 4	2°16	20°10	4° 4	12°54	23°15	22°15	27°32	12°22
M19	14 7 22	3°25'18	28° 6	18R23	13°41	28°47	17°18	2°21	20°13	4° 4	12°52	23° 7	22°12	27°39	12°27
T20	14 11 18	4°23'12	13M25	18°20	14°50	29°31	17°32	2°27	20°15	4° 3	12°50	22°57	22° 9	27°45	12°31
W21	14 15 15	5°21'05	28°37	18°12	15°58	0Z14	17°46	2°32	20°18	4° 2	12°49	22°47	22° 5	27°52	12°35
T22	14 19 12	6°18'56	13Z30	18° 0	17° 6	0°58	18° 0	2°37	20°21	4° 2	12°47	22°38	22° 2	27°59	12°39
F23	14 23 8	7°16'46	27°57	17°43	18°14	1°42	18°14	2°43	20°23	4° 1	12°46	22°31	21°59	28° 6	12°43
S24	14 27 5	8°14'35	11Z56	17°23	19°22	2°25	18°28	2°48	20°26	4° 0	12°44	22°26	21°56	28°12	12°48
S25	14 31 1	9°12'22	25°24	16°59	20°30	3° 9	18°42	2°54	20°28	4° 0	12°42	22°24	21°53	28°19	12°52
M26	14 34 58	10°10'09	8A25	16°31	21°38	3°52	18°56	3° 0	20°31	3°59	12°41	22°D23	21°49	28°26	12°56
T27	14 38 54	11° 7'54	21° 3	16° 2	22°45	4°36	19°10	3° 6	20°33	3°58	12°39	22R23	21°46	28°32	13° 0
W28	14 42 51	12° 5'38	3X22	15°30	23°53	5°19	19°24	3°11	20°36	3°57	12°37	22°23	21°43	28°39	13° 4
T29	14 46 47	13° 3'20	15°28	14°56	25° 0	6° 2	19°37	3°17	20°38	3°56	12°36	22°21	21°40	28°46	13° 9
F30	14 50 44	14Z 1'02	27X24	14Z22	26II 7	6Z45	19Y51	3Z23	20X40	3Z56	12M34	22A17	21A37	28Y53	13Z13

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SWISS EPHEMERIS for the year 1003

MAY 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	14 54 41	14♌58'42	9♍16	13°R47	27♎14	7♏29	20♐5	3♑29	20♒43	3°R55	12°R32	22°R10	21♌34	28♍59	13♎17
S 2	14 58 37	15°56'21	21° 6	13♌13	28°20	8°12	20°18	3°35	20°45	3♑54	12♎31	22♌0	21°30	29° 6	13°21
M 3	15 2 34	16°53'59	2♌57	12°39	29°27	8°55	20°32	3°41	20°47	3°53	12°29	21°48	21°27	29°13	13°25
T 4	15 6 30	17°51'36	14°50	12° 7	0♌33	9°38	20°46	3°47	20°50	3°52	12°27	21°34	21°24	29°19	13°30
W 5	15 10 27	18°49'12	26°48	11°37	1°39	10°21	20°59	3°54	20°52	3°51	12°26	21°20	21°21	29°26	13°34
T 6	15 14 23	19°46'47	8♌51	11° 9	2°45	11° 4	21°13	4° 0	20°54	3°50	12°24	21° 7	21°18	29°33	13°38
F 7	15 18 20	20°44'20	21° 1	10°45	3°51	11°46	21°26	4° 6	20°56	3°49	12°22	20°55	21°14	29°40	13°42
S 8	15 22 16	21°41'52	3♌19	10°23	4°57	12°29	21°39	4°13	20°58	3°48	12°21	20°46	21°11	29°46	13°46
S 9	15 26 13	22°39'23	15°47	10° 5	6° 2	13°12	21°53	4°19	21° 0	3°47	12°19	20°40	21° 8	29°53	13°51
M10	15 30 10	23°36'52	28°28	9°51	7° 7	13°55	22° 6	4°26	21° 2	3°45	12°17	20°37	21° 5	0♌0	13°55
T 11	15 34 6	24°34'20	11♌25	9°41	8°12	14°37	22°19	4°32	21° 4	3°44	12°16	20°36	21° 2	0° 6	13°59
W12	15 38 3	25°31'46	24°42	9°36	9°17	15°20	22°32	4°39	21° 6	3°43	12°14	20°36	20°59	0°13	14° 3
T 13	15 41 59	26°29'12	8♌20	9°D34	10°22	16° 2	22°46	4°46	21° 8	3°42	12°12	20°36	20°55	0°20	14° 7
F 14	15 45 56	27°26'36	22°23	9°37	11°26	16°45	22°59	4°52	21°10	3°41	12°11	20°34	20°52	0°27	14°11
S 15	15 49 52	28°23'58	6♌50	9°45	12°30	17°27	23°12	4°59	21°11	3°39	12° 9	20°30	20°49	0°33	14°16
S 16	15 53 49	29°21'20	21°37	9°57	13°34	18°10	23°25	5° 6	21°13	3°38	12° 8	20°24	20°46	0°40	14°20
M17	15 57 45	0♌18'40	6♌41	10°14	14°37	18°52	23°37	5°13	21°15	3°37	12° 6	20°15	20°43	0°47	14°24
T 18	16 1 42	1°16'00	21°51	10°35	15°41	19°34	23°50	5°20	21°17	3°36	12° 5	20° 5	20°40	0°53	14°28
W19	16 5 39	2°13'19	6♌57	11° 0	16°44	20°16	24° 3	5°27	21°18	3°34	12° 3	19°54	20°36	1° 0	14°32
T 20	16 9 35	3°10'37	21°49	11°30	17°47	20°59	24°16	5°34	21°20	3°33	12° 2	19°45	20°33	1° 7	14°36
F 21	16 13 32	4° 7'54	6♌39	12° 4	18°49	21°41	24°28	5°41	21°21	3°32	12° 0	19°37	20°30	1°14	14°40
S 22	16 17 28	5° 5'11	20°21	12°42	19°51	22°23	24°41	5°48	21°23	3°30	11°59	19°32	20°27	1°20	14°44
S 23	16 21 25	6° 2'27	3♌55	13°24	20°53	23° 5	24°53	5°55	21°24	3°29	11°57	19°29	20°24	1°27	14°48
M24	16 25 21	6°59'43	17° 0	14°11	21°55	23°47	25° 6	6° 2	21°26	3°28	11°56	19°D28	20°20	1°34	14°52
T 25	16 29 18	7°56'58	29°42	15° 1	22°56	24°29	25°18	6° 9	21°27	3°26	11°54	19°28	20°17	1°40	14°56
W26	16 33 14	8°54'13	12♌3	15°55	23°57	25°10	25°30	6°16	21°28	3°25	11°53	19°R28	20°14	1°47	15° 0
T 27	16 37 11	9°51'27	24° 9	16°53	24°58	25°52	25°43	6°23	21°30	3°23	11°51	19°27	20°11	1°54	15° 4
F 28	16 41 8	10°48'42	6♍6	17°54	25°58	26°34	25°55	6°31	21°31	3°22	11°50	19°24	20° 8	2° 1	15° 8
S 29	16 45 4	11°45'55	17°57	18°59	26°58	27°16	26° 7	6°38	21°32	3°20	11°48	19°19	20° 5	2° 7	15°12
S 30	16 49 1	12°43'09	29°47	20° 8	27°58	27°57	26°19	6°45	21°33	3°19	11°47	19°11	20° 1	2°14	15°16
M31	16 52 57	13♌40'23	11♌40	21♌20	28♌57	28♌39	26♍31	6♎53	21♌34	3♑17	11♌46	19♌1	19♌58	2♌21	15♌20

Delta T = 26m01s Julian Calendar 1 May 1003 == Greg. Calendar 7 May 1003

JUNE 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	16 56 54	14♎37'36	23♏38	22♏36	29♐56	29♑21	26♒43	7♓0	21♌35	3°R16	11°R44	18°R50	19♌55	2♌27	15♌23
W 2	17 0 50	15°34'49	5♎43	23°55	0♎54	0♎2	26°54	7° 8	21°36	3♑14	11♌43	18♌38	19°52	2°34	15°27
T 3	17 4 47	16°32'02	17°56	25°18	1°52	0°44	27° 6	7°15	21°37	3°13	11°42	18°27	19°49	2°41	15°31
F 4	17 8 43	17°29'14	0♌18	26°43	2°50	1°25	27°17	7°22	21°38	3°11	11°40	18°18	19°46	2°48	15°35
S 5	17 12 40	18°26'26	12°50	28°13	3°47	2° 6	27°29	7°30	21°39	3°10	11°39	18°11	19°42	2°54	15°39
S 6	17 16 37	19°23'38	25°33	29°45	4°44	2°48	27°40	7°38	21°40	3° 8	11°38	18° 6	19°39	3° 1	15°42
M 7	17 20 33	20°20'49	8♎28	1♎21	5°40	3°29	27°52	7°45	21°40	3° 7	11°37	18° 4	19°36	3° 8	15°46
T 8	17 24 30	21°18'00	21°35	3° 0	6°36	4°10	28° 3	7°53	21°41	3° 5	11°36	18°D 3	19°33	3°14	15°50
W 9	17 28 26	22°15'10	4♎58	4°42	7°32	4°51	28°14	8° 0	21°42	3° 3	11°34	18° 4	19°30	3°21	15°53
T 10	17 32 23	23°12'20	18°37	6°27	8°26	5°32	28°25	8° 8	21°42	3° 2	11°33	18°R 5	19°26	3°28	15°57
F 11	17 36 19	24° 9'29	2♌34	8°15	9°21	6°13	28°36	8°15	21°43	3° 0	11°32	18° 4	19°23	3°35	16° 0
S 12	17 40 16	25° 6'38	16°49	10° 6	10°14	6°54	28°47	8°23	21°43	2°59	11°31	18° 2	19°20	3°41	16° 4
S 13	17 44 12	26° 3'47	11♎20	12° 0	11° 8	7°35	28°57	8°31	21°44	2°57	11°30	17°59	19°17	3°48	16° 7
M14	17 48 9	27° 0'55	16° 2	13°56	12° 0	8°16	29° 8	8°38	21°44	2°55	11°29	17°53	19°14	3°55	16°11
T 15	17 52 6	27°58'04	0♌50	15°55	12°52	8°57	29°19	8°46	21°45	2°54	11°28	17°46	19°11	4° 1	16°14
W16	17 56 2	28°55'12	15°36	17°56	13°43	9°38	29°29	8°54	21°45	2°52	11°27	17°38	19° 7	4° 8	16°18
T 17	17 59 59	29°52'21	0♌12	19°59	14°34	10°18	29°39	9° 2	21°45	2°51	11°26	17°31	19° 4	4°15	16°21
F 18	18 3 55	0♌49'29	14°31	22° 4	15°24	10°59	29°50	9° 9	21°46	2°49	11°25	17°26	19° 1	4°22	16°24
S 19	18 7 52	1°46'38	28°27	24°10	16°13	11°40	0♌0	9°17	21°46	2°47	11°24	17°23	18°58	4°28	16°28
S 20	18 11 48	2°43'47	11♌59	26°17	17° 2	12°20	0°10	9°25	21°46	2°46	11°23	17°D21	18°55	4°35	16°31
M21	18 15 45	3°40'57	25° 6	28°26	17°49	13° 1	0°20	9°33	21°46	2°44	11°23	17°21	18°52	4°42	16°34
T 22	18 19 42	4°38'07	7♌49	0♌34	18°36	13°41	0°29	9°40	21°R46	2°43	11°22	17°22	18°48	4°49	16°37
W23	18 23 38	5°35'17	20°13	2°44	19°23	14°22	0°39	9°48	21°46	2°41	11°21	17°24	18°45	4°55	16°40
T 24	18 27 35	6°32'28	2♍22	4°53	20° 8	15° 2	0°48	9°56	21°46	2°39	11°20	17°R25	18°42	5° 2	16°43
F 25	18 31 31	7°29'40	14°21	7° 2	20°52	15°43	0°58	10° 4	21°46	2°38	11°19	17°25	18°39	5° 9	16°47
S 26	18 35 28	8°26'52	26°14	9°10	21°36	16°23	1° 7	10°11	21°46	2°36	11°19	17°23	18°36	5°15	16°50
S 27	18 39 24	9°24'05	8♌6	11°18	22°18	17° 3	1°16	10°19	21°45	2°34	11°18	17°20	18°32	5°22	16°52
M28	18 43 21	10°21'19	20° 2	13°24	23° 0	17°43	1°25	10°27	21°45	2°33	11°17	17°15	18°29	5°29	16°55
T 29	18 47 17	11°18'33	2♎4	15°30	23°41	18°24	1°34	10°35	21°45	2°31	11°17	17° 9	18°26	5°36	16°58
W30	18 51 14	12♌15'48	14♎17	17♌34	24♎20	19♎4	1♌43	10♌43	21♌44	2♑30	11♌16	17♌3	18♌23	5♌42	17♌1

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SWISS EPHEMERIS for the year 1003

JULY 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	18 55 11	13 ⁵ 13'04	26 ^{II} 40	19 ⁵ 37	24 [♁] 59	19 ^{II} 44	1 [♃] 52	10 [♄] 50	21 [♅] R44	2 [♆] R28	11 [♇] R16	16 [♈] R57	18 [♉] 20	5 [♊] 49	17 [♋] 4								
F 2	18 59 7	14 ⁰ 10'21	9 [♁] 17	21 [♁] 39	25 [♁] 36	20 [♁] 24	2 [♃] 0	10 [♄] 58	21 [♅] X44	2 [♆] 26	11 [♇] L15	16 [♈] 52	18 [♉] 17	5 [♊] 56	17 [♋] 7								
S 3	19 3 4	15 ⁰ 7'38	22 ⁰ 7	23 [♁] 39	26 [♁] 12	21 [♁] 4	2 [♃] 9	11 [♄] 6	21 [♅] 43	2 [♆] 25	11 [♇] 15	16 [♈] 49	18 [♉] 13	6 [♊] 2	17 [♋] 9								
S 4	19 7 0	16 ⁰ 4'56	5 [♁] 9	25 [♁] 38	26 [♁] 47	21 [♁] 44	2 [♃] 17	11 [♄] 14	21 [♅] 42	2 [♆] 23	11 [♇] 14	16 [♈] 47	18 [♉] 10	6 [♊] 9	17 [♋] 12								
M 5	19 10 57	17 ⁰ 2'14	18 ⁰ 25	27 [♁] 35	27 [♁] 20	22 [♁] 24	2 [♃] 25	11 [♄] 22	21 [♅] 42	2 [♆] 22	11 [♇] 14	16 [♈] D46	18 [♉] 7	6 [♊] 16	17 [♋] 15								
T 6	19 14 53	17 ⁰ 59'33	1 [♁] 53	29 [♁] 30	27 [♁] 53	23 [♁] 3	2 [♃] 33	11 [♄] 29	21 [♅] 41	2 [♆] 20	11 [♇] 13	16 [♈] 47	18 [♉] 4	6 [♊] 23	17 [♋] 17								
W 7	19 18 50	18 ⁰ 56'52	15 ⁰ 32	1 [♁] 23	28 [♁] 23	23 [♁] 43	2 [♃] 41	11 [♄] 37	21 [♅] 41	2 [♆] 19	11 [♇] 13	16 [♈] 48	18 [♉] 1	6 [♊] 29	17 [♋] 20								
T 8	19 22 46	19 ⁰ 54'12	29 ⁰ 23	3 [♁] 15	28 [♁] 53	24 [♁] 23	2 [♃] 49	11 [♄] 45	21 [♅] 40	2 [♆] 17	11 [♇] 13	16 [♈] 50	17 [♉] 58	6 [♊] 36	17 [♋] 22								
F 9	19 26 43	20 ⁰ 51'32	13 [♁] 24	5 [♁] 6	29 [♁] 21	25 [♁] 3	2 [♃] 56	11 [♄] 53	21 [♅] 39	2 [♆] 16	11 [♇] 12	16 [♈] 50	17 [♉] 54	6 [♊] 43	17 [♋] 25								
S 10	19 30 40	21 ⁰ 48'53	27 ⁰ 35	6 [♁] 54	29 [♁] 47	25 [♁] 42	3 [♃] 4	12 [♄] 0	21 [♅] 38	2 [♆] 14	11 [♇] 12	16 [♈] R51	17 [♉] 51	6 [♊] 50	17 [♋] 27								
S 11	19 34 36	22 ⁰ 46'15	11 [♁] L53	8 [♁] 41	0 [♁] 12	26 [♁] 22	3 [♃] 11	12 [♄] 8	21 [♅] 37	2 [♆] 13	11 [♇] 12	16 [♈] 50	17 [♉] 48	6 [♊] 56	17 [♋] 29								
M12	19 38 33	23 ⁰ 43'37	26 ⁰ 15	10 [♁] 26	0 [♁] 35	27 [♁] 1	3 [♃] 18	12 [♄] 16	21 [♅] 36	2 [♆] 11	11 [♇] 12	16 [♈] 48	17 [♉] 45	7 [♊] 3	17 [♋] 32								
T 13	19 42 29	24 ⁰ 41'00	10 [♁] X38	12 ⁰ 10	0 [♁] 56	27 [♁] 41	3 [♃] 25	12 [♄] 23	21 [♅] 35	2 [♆] 10	11 [♇] 11	16 [♈] 45	17 [♉] 42	7 [♊] 10	17 [♋] 34								
W14	19 46 26	25 ⁰ 38'24	24 ⁰ 56	13 ⁰ 52	1 [♁] 16	28 [♁] 20	3 [♃] 32	12 [♄] 31	21 [♅] 34	2 [♆] 8	11 [♇] 11	16 [♈] 42	17 [♉] 38	7 [♊] 16	17 [♋] 36								
T 15	19 50 22	26 ⁰ 35'48	9 [♁] 3	15 ⁰ 32	1 [♁] 33	29 [♁] 0	3 [♃] 39	12 [♄] 39	21 [♅] 33	2 [♆] 7	11 [♇] 11	16 [♈] 39	17 [♉] 35	7 [♊] 23	17 [♋] 38								
F 16	19 54 19	27 ⁰ 33'14	23 ⁰ 3	17 ⁰ 11	1 [♁] 49	29 [♁] 39	3 [♃] 45	12 [♄] 46	21 [♅] 32	2 [♆] 5	11 [♇] 11	16 [♈] 37	17 [♉] 32	7 [♊] 30	17 [♋] 40								
S 17	19 58 15	28 ⁰ 30'40	6 [♁] 42	18 ⁰ 48	2 [♁] 3	0 [♁] 18	3 [♃] 52	12 [♄] 54	21 [♅] 31	2 [♆] 4	11 [♇] D11	16 [♈] 36	17 [♉] 29	7 [♊] 37	17 [♋] 42								
S 18	20 2 12	29 ⁰ 28'07	20 ⁰ 3	20 ⁰ 23	2 [♁] 15	0 [♁] 58	3 [♃] 58	13 [♄] 2	21 [♅] 30	2 [♆] 3	11 [♇] 11	16 [♈] D36	17 [♉] 26	7 [♊] 43	17 [♋] 44								
M19	20 6 9	0 [♁] 25'36	3 [♁] 3	21 ⁰ 57	2 [♁] 24	1 [♁] 37	4 [♃] 4	13 [♄] 9	21 [♅] 29	2 [♆] 1	11 [♇] 11	16 [♈] 37	17 [♉] 23	7 [♊] 50	17 [♋] 46								
T 20	20 10 5	1 ⁰ 23'06	15 ⁰ 44	23 ⁰ 29	2 [♁] 32	2 [♁] 16	4 [♃] 10	13 [♄] 17	21 [♅] 27	2 [♆] 0	11 [♇] 11	16 [♈] 38	17 [♉] 19	7 [♊] 57	17 [♋] 48								
W21	20 14 2	2 ⁰ 20'37	2 [♁] 8	24 ⁰ 59	2 [♁] 37	2 [♁] 55	4 [♃] 16	13 [♄] 24	21 [♅] 26	1 [♆] 58	11 [♇] 11	16 [♈] 39	17 [♉] 16	8 [♊] 3	17 [♋] 50								
T 22	20 17 58	3 ⁰ 18'10	10 [♁] Y18	26 ⁰ 28	2 [♁] 40	3 [♁] 34	4 [♃] 21	13 [♄] 32	21 [♅] 25	1 [♆] 57	11 [♇] 12	16 [♈] 40	17 [♉] 13	8 [♊] 10	17 [♋] 51								
F 23	20 21 55	4 ⁰ 15'44	22 ⁰ 18	27 ⁰ 55	2 [♁] R41	4 [♁] 13	4 [♃] 27	13 [♄] 39	21 [♅] 23	1 [♆] 56	11 [♇] 12	16 [♈] 41	17 [♉] 10	8 [♊] 17	17 [♋] 53								
S 24	20 25 51	5 ⁰ 13'19	4 [♁] 13	29 ⁰ 21	2 [♁] 40	4 [♁] 52	4 [♃] 32	13 [♄] 47	21 [♅] 22	1 [♆] 54	11 [♇] 12	16 [♈] R41	17 [♉] 7	8 [♊] 24	17 [♋] 55								
S 25	20 29 48	6 ⁰ 10'57	16 ⁰ 6	0 [♁] 45	2 [♁] 36	5 [♁] 31	4 [♃] 37	13 [♄] 54	21 [♅] 21	1 [♆] 53	11 [♇] 12	16 [♈] 41	17 [♉] 4	8 [♊] 30	17 [♋] 56								
M26	20 33 44	7 ⁰ 8'35	28 ⁰ 3	2 [♁] 7	2 [♁] 30	6 [♁] 10	4 [♃] 42	14 [♄] 1	21 [♅] 19	1 [♆] 52	11 [♇] 12	16 [♈] 40	17 [♉] 0	8 [♊] 37	17 [♋] 58								
T 27	20 37 41	8 ⁰ 6'16	10 [♁] II8	3 [♁] 27	2 [♁] 21	6 [♁] 49	4 [♃] 47	14 [♄] 9	21 [♅] 18	1 [♆] 51	11 [♇] 13	16 [♈] 39	16 [♉] 57	8 [♊] 44	17 [♋] 59								
W28	20 41 38	9 ⁰ 3'58	22 ⁰ 24	4 [♁] 45	2 [♁] 11	7 [♁] 28	4 [♃] 51	14 [♄] 16	21 [♅] 16	1 [♆] 49	11 [♇] 13	16 [♈] 38	16 [♉] 54	8 [♊] 51	18 [♋] 1								
T 29	20 45 34	10 ⁰ 1'41	4 [♁] 56	6 [♁] 2	1 [♁] 57	8 [♁] 6	4 [♃] 56	14 [♄] 23	21 [♅] 14	1 [♆] 48	11 [♇] 13	16 [♈] 37	16 [♉] 51	8 [♊] 57	18 [♋] 2								
F 30	20 49 31	10 ⁰ 59'26	17 ⁰ 44	7 [♁] 17	1 [♁] 42	8 [♁] 45	5 [♃] 0	14 [♄] 31	21 [♅] 13	1 [♆] 47	11 [♇] 14	16 [♈] 37	16 [♉] 48	9 [♊] 4	18 [♋] 3								
S 31	20 53 27	11 ⁰ L57'13	0 [♁] L50	8 [♁] 30	1 [♁] 24	9 [♁] 24	5 [♃] 4	14 [♄] 38	21 [♅] 11	1 [♆] 46	11 [♇] L14	16 [♈] 36	16 [♉] 44	9 [♊] L11	18 [♋] 4								

Delta T = 26m00s

Julian Calendar 1 July 1003 == Greg. Calendar 7 July 1003

AUGUST 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	20 57 24	12 ⁰ L55'01	14 ⁰ L14	9 [♁] 40	1 [♁] R4	10 [♁] 2	5 [♃] 8	14 [♄] 45	21 [♅] R9	1 [♆] R45	11 [♇] L15	16 [♈] 36	16 [♉] 41	9 [♊] 17	18 [♋] 6								
M 2	21 1 20	13 ⁰ 52'51	27 ⁰ 54	10 [♁] 49	0 [♁] 42	10 [♁] 41	5 [♃] 11	14 [♄] 52	21 [♅] X8	1 [♆] 44	11 [♇] 15	16 [♈] 36	16 [♉] 38	9 [♊] 24	18 [♋] 7								
T 3	21 5 17	14 ⁰ 50'41	11 [♁] 49	11 ⁰ 55	0 [♁] 17	11 [♁] 20	5 [♃] 15	14 [♄] 59	21 [♅] 6	1 [♆] 43	11 [♇] 16	16 [♈] 36	16 [♉] 35	9 [♊] 31	18 [♋] 8								
W 4	21 9 13	15 ⁰ 48'34	25 ⁰ 54	13 ⁰ 0	29 [♁] L51	11 [♁] 58	5 [♃] 18	15 [♄] 7	21 [♅] 4	1 [♆] 42	11 [♇] 16	16 [♈] 37	16 [♉] 32	9 [♊] 38	18 [♋] 9								
T 5	21 13 10	16 ⁰ 46'27	10 [♁] 6	14 ⁰ 1	29 [♁] 23	12 [♁] 37	5 [♃] 21	15 [♄] 14	21 [♅] 2	1 [♆] 41	11 [♇] 17	16 [♈] R37	16 [♉] 29	9 [♊] 44	18 [♋] 10								
F 6	21 17 7	17 ⁰ 44'22	24 ⁰ 23	15 ⁰ 0	28 [♁] 52	13 [♁] 15	5 [♃] 24	15 [♄] 21	21 [♅] 0	1 [♆] 40	11 [♇] 18	16 [♈] 36	16 [♉] 25	9 [♊] 51	18 [♋] 11								
S 7	21 21 3	18 ⁰ 42'19	8 [♁] L39	15 ⁰ 57	28 [♁] 21	13 [♁] 53	5 [♃] 27	15 [♄] 28	20 [♅] 58	1 [♆] 39	11 [♇] 18	16 [♈] 36	16 [♉] 22	9 [♊] 58	18 [♋] 11								
S 8	21 25 0	19 ⁰ 40'16	22 ⁰ 54	16 ⁰ 50	27 [♁] 48	14 [♁] 32	5 [♃] 29	15 [♄] 35	20 [♅] 56	1 [♆] 38	11 [♇] 19	16 [♈] D36	16 [♉] 19	10 [♊] 4	18 [♋] 12								
M 9	21 28 56	20 ⁰ 38'15	7 [♁] X3	17 ⁰ 40	27 [♁] 13	15 [♁] 10	5 [♃] 32	15 [♄] 41	20 [♅] 54	1 [♆] 37	11 [♇] 20	16 [♈] 37	16 [♉] 16	10 [♊] 11	18 [♋] 13								
T 10	21 32 53	21 ⁰ 36'16	21 ⁰ 5	18 ⁰ 28	26 [♁] 38	15 [♁] 48	5 [♃] 34	15 [♄] 48	20 [♅] 52	1 [♆] 36	11 [♇] 21	16 [♈] 37	16 [♉] 13	10 [♊] 18	18 [♋] 13								
W11	21 36 49	22 ⁰ 34'18	4 [♁] 58	19 ⁰ 11	26 [♁] 2	16 [♁] 26	5 [♃] 36	15 [♄] 55	20 [♅] 50	1 [♆] 35	11 [♇] 21	16 [♈] 37	16 [♉] 10	10 [♊] 25	18 [♋] 14								
T 12	21 40 46	23 ⁰ 32'21	18 ⁰ 40	19 ⁰ 52	25 [♁] 25	17 [♁] 4	5 [♃] 38	16 [♄] 2	20 [♅] 48	1 [♆] 34	11 [♇] 22	16 [♈] 38	16 [♉] 6	10 [♊] 31	18 [♋] 14								
F 13	21 44 42	24 ⁰ 30'26	2 [♁] L10	20 ⁰ 28	24 [♁] 48	17 [♁] 42	5 [♃] 39	16 [♄] 8	20 [♅] 46	1 [♆] 33	11 [♇] 23	16 [♈] 38	16 [♉] 3	10 [♊] 38	18 [♋] 15								
S 14	21 48 39	25 ⁰ 28'32	15 ⁰ 26	21 ⁰ 0	24 [♁] 11	18 [♁] 20	5 [♃] 41	16 [♄] 15	20 [♅] 44	1 [♆] 32	11 [♇] 24	16 [♈] R39	16 [♉] 0	10									

SWISS EPHEMERIS for the year 1003

SEPTEMBER 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	22 59 37	13♍ 0'07	5♊33	14°R41	16°R39	29♄36	5°R31	18♃5	20°R 3	1°R23	11♌46	16°R27	15♋3	12♄46	18°R11		
T 2	23 3 34	13°58'52	20°13	13♍36	16♁34	0♁14	5♃29	18°11	20°R 1	1♃23	11°47	16♋23	15° 0	12°53	18♄10		
F 3	23 7 30	14°57'39	4♌54	12°33	16°31	0°51	5°26	18°16	19°58	1°23	11°49	16°19	14°56	12°59	18° 9		
S 4	23 11 27	15°56'28	19°27	11°32	16°D31	1°28	5°23	18°21	19°56	1°23	11°50	16°16	14°53	13° 6	18° 8		
S 5	23 15 23	16°55'18	3♌49	10°37	16°33	2° 4	5°20	18°27	19°54	1°22	11°52	16°14	14°50	13°13	18° 7		
M 6	23 19 20	17°54'10	17°57	9°47	16°37	2°41	5°17	18°32	19°51	1°22	11°53	16°D13	14°47	13°19	18° 6		
T 7	23 23 16	18°53'04	1♃48	9° 4	16°44	3°18	5°14	18°37	19°49	1°22	11°55	16°14	14°44	13°26	18° 5		
W 8	23 27 13	19°52'00	15°24	8°30	16°53	3°55	5°10	18°42	19°46	1°D22	11°57	16°15	14°41	13°33	18° 3		
T 9	23 31 9	20°50'58	28°44	8° 5	17° 4	4°32	5° 6	18°47	19°44	1°22	11°58	16°17	14°37	13°40	18° 2		
F 10	23 35 6	21°49'57	11♋50	7°51	17°17	5° 8	5° 2	18°52	19°41	1°22	12° 0	16°R18	14°34	13°46	18° 1		
S 11	23 39 3	22°48'58	24°43	7°D46	17°32	5°45	4°58	18°57	19°39	1°22	12° 2	16°17	14°31	13°53	18° 0		
S 12	23 42 59	23°48'01	7♌24	7°52	17°49	6°22	4°54	19° 2	19°37	1°23	12° 3	16°16	14°28	14° 0	17°58		
M13	23 46 56	24°47'06	19°55	8° 8	18° 8	6°58	4°49	19° 6	19°34	1°23	12° 5	16°12	14°25	14° 7	17°57		
T 14	23 50 52	25°46'13	2♂15	8°35	18°29	7°34	4°45	19°11	19°32	1°23	12° 7	16° 6	14°21	14°13	17°55		
W15	23 54 49	26°45'23	14°26	9°10	18°52	8°11	4°40	19°15	19°29	1°23	12° 9	15°59	14°18	14°20	17°53		
T 16	23 58 45	27°44'34	26°30	9°55	19°17	8°47	4°35	19°20	19°27	1°23	12°11	15°51	14°15	14°27	17°52		
F 17	0 2 42	28°43'48	8♃26	10°48	19°43	9°24	4°30	19°24	19°25	1°24	12°13	15°43	14°12	14°33	17°50		
S 18	0 6 38	29°43'04	20°19	11°48	20°11	10° 0	4°24	19°28	19°22	1°24	12°14	15°36	14° 9	14°40	17°48		
S 19	0 10 35	0♁42'22	2♂10	12°56	20°41	10°36	4°19	19°32	19°20	1°24	12°16	15°30	14° 6	14°47	17°46		
M20	0 14 32	1°41'43	14° 4	14° 9	21°12	11°12	4°13	19°36	19°18	1°25	12°18	15°26	14° 2	14°54	17°45		
T 21	0 18 28	2°41'06	26° 4	15°27	21°45	11°48	4° 7	19°40	19°15	1°25	12°20	15°24	13°59	15° 0	17°43		
W22	0 22 25	3°40'31	8♄17	16°50	22°19	12°24	4° 1	19°44	19°13	1°25	12°22	15°D24	13°56	15° 7	17°41		
T 23	0 26 21	4°39'59	20°46	18°17	22°54	13° 0	3°55	19°48	19°11	1°26	12°24	15°25	13°53	15°14	17°39		
F 24	0 30 18	5°39'29	3♁36	19°48	23°31	13°36	3°49	19°52	19° 8	1°26	12°26	15°26	13°50	15°20	17°36		
S 25	0 34 14	6°39'02	16°51	21°21	24° 9	14°12	3°43	19°55	19° 6	1°27	12°28	15°R27	13°47	15°27	17°34		
S 26	0 38 11	7°38'36	0♍34	22°56	24°48	14°48	3°36	19°59	19° 4	1°28	12°30	15°26	13°43	15°34	17°32		
M27	0 42 7	8°38'13	14°45	24°33	25°28	15°23	3°29	20° 2	19° 1	1°28	12°32	15°23	13°40	15°41	17°30		
T 28	0 46 4	9°37'52	29°21	26°12	26°10	15°59	3°23	20° 6	18°59	1°29	12°34	15°17	13°37	15°47	17°28		
W29	0 50 0	10°37'34	14♁17	27°51	26°53	16°34	3°16	20° 9	18°57	1°30	12°36	15° 9	13°34	15°54	17°25		
T 30	0 53 57	11°37'17	29♁22	29♍32	27♁36	17♁10	3♃9	20♄12	18♌55	1♃30	12♌39	15♋1	13♋31	16♃1	17♄23		

Delta T = 25m59s Julian Calendar 1 Sept. 1003 == Greg. Calendar 7 Sept. 1003

OCTOBER 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	0 57 54	12♄37'02	14♌28	1♁13	28♁21	17♁45	3°R 1	20♄15	18°R53	1♃31	12♌41	14°R52	13♋27	16♃8	17°R20		
S 2	1 1 50	13°36'49	29°24	2°54	29° 7	18°21	2♃54	20°18	18°R51	1°32	12°43	14°R44	13°24	16°14	17♄18		
S 3	1 5 47	14°36'38	14♌3	4°36	29°53	18°56	2°47	20°21	18°48	1°33	12°45	14°38	13°21	16°21	17°15		
M 4	1 9 43	15°36'29	28°20	6°18	0♍41	19°31	2°39	20°23	18°46	1°33	12°47	14°35	13°18	16°28	17°13		
T 5	1 13 40	16°36'22	12♃13	7°59	1°29	20° 7	2°32	20°26	18°44	1°34	12°49	14°D33	13°15	16°34	17°10		
W 6	1 17 36	17°36'16	25°43	9°41	2°19	20°42	2°24	20°28	18°42	1°35	12°52	14°33	13°12	16°41	17° 8		
T 7	1 21 33	18°36'12	8♋51	11°22	3° 9	21°17	2°16	20°31	18°40	1°36	12°54	14°R34	13° 8	16°48	17° 5		
F 8	1 25 30	19°36'09	21°42	13° 3	3°59	21°52	2° 9	20°33	18°38	1°37	12°56	14°34	13° 5	16°55	17° 2		
S 9	1 29 26	20°36'08	4♌19	14°44	4°51	22°26	2° 1	20°35	18°36	1°38	12°58	14°32	13° 2	17° 1	17° 0		
S 10	1 33 23	21°36'09	16°44	16°24	5°43	23° 1	1°53	20°37	18°34	1°39	13° 1	14°27	12°59	17° 8	16°57		
M11	1 37 19	22°36'12	28°59	18° 4	6°36	23°36	1°45	20°39	18°33	1°40	13° 3	14°20	12°56	17°15	16°54		
T 12	1 41 16	23°36'16	11♂7	19°44	7°30	24°11	1°37	20°41	18°31	1°41	13° 5	14°10	12°53	17°22	16°51		
W13	1 45 12	24°36'22	23° 9	21°23	8°25	24°45	1°29	20°43	18°29	1°42	13° 7	13°58	12°49	17°28	16°48		
T 14	1 49 9	25°36'30	5♃7	23° 2	9°20	25°20	1°21	20°44	18°27	1°43	13°10	13°44	12°46	17°35	16°45		
F 15	1 53 5	26°36'41	17° 1	24°40	10°15	25°54	1°13	20°46	18°25	1°45	13°12	13°30	12°43	17°42	16°43		
S 16	1 57 2	27°36'53	28°52	26°18	11°11	26°29	1° 5	20°47	18°24	1°46	13°14	13°18	12°40	17°48	16°40		
S 17	2 0 58	28°37'07	10♂44	27°56	12° 8	27° 3	0°56	20°49	18°22	1°47	13°17	13° 7	12°37	17°55	16°37		
M18	2 4 55	29°37'23	22°38	29°33	13° 6	27°37	0°48	20°50	18°20	1°48	13°19	12°59	12°33	18° 2	16°34		
T 19	2 8 52	0♌37'41	4♄37	1♌9	14° 4	28°11	0°40	20°51	18°19	1°50	13°21	12°53	12°30	18° 9	16°31		
W20	2 12 48	1°38'01	16°47	2°46	15° 2	28°45	0°32	20°52	18°17	1°51	13°24	12°50	12°27	18°15	16°28		
T 21	2 16 45	2°38'23	29°11	4°22	16° 1	29°19	0°24	20°53	18°16	1°52	13°26	12°D50	12°24	18°22	16°24		
F 22	2 20 41	3°38'47	11♁55	5°57	17° 0	29°53	0°16	20°53	18°14	1°54	13°29	12°R50	12°21	18°29	16°21		
S 23	2 24 38	4°39'13	25° 3	7°33	18° 0	0♍27	0° 7	20°54	18°13	1°55	13°31	12°49	12°18	18°35	16°18		
S 24	2 28 34	5°39'41	8♍39	9° 8	19° 1	1° 1	29♂59	20°55	18°11	1°57	13°33	12°47	12°14	18°42	16°15		
M25	2 32 31	6°40'11	22°46	10°42	20° 2	1°34	29°51	20°55	18°10	1°58	13°36	12°43	12°11	18°49	16°12		
T 26	2 36 27	7°40'43	7♁21	12°17	21° 3	2° 8	29°43	20°55	18° 8	2° 0	13°38	12°36	12° 8	18°56	16° 9		
W27	2 40 24	8°41'16	22°21	13°51	22° 5	2°41	29°35	20°55	18° 7	2° 1	13°40	12°26	12° 5	19° 2	16° 6		
T 28	2 44 21	9°41'51	7♌38	15°25	23° 7	3°14	29°27	20°R56	18° 6	2° 3	13°43	12°14	12° 2	19° 9	16° 3		
F 29	2 48 17	10°42'28	22°59	16°58	24° 9	3°48	29°19	20°56	18° 5	2° 4	13°45	12° 3	11°58	19°16	15°59		
S 30	2 52 14	11°43'07	8♌13	18°32	25°12	4°21	29°12	20°55	18° 4	2° 6	13°48	11°52	11°55	19°23	15°56		
S 31	2 56 10	12♌43'47	23♌10	20♌5	26♍15	4♍54	29♂4	20♄55	18♌2	2♃7	13♌50	11°R44	11°R52	19♃29	15♄53		

Delta T = 25m59s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1003

NOVEMBER 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑
M 1	3 0 7	13M44'28	7R342	21M38	27M18	5M27	28°R56	20°R55	18°R 1	2R 9	13M52	11°R38	11R49	19R36	15°R50						
T 2	3 4 3	14°45'10	21°46	23°11	28°22	5°59	28Y49	20E54	18X 0	2°11	13°55	11R35	11°46	19°43	15R47						
W 3	3 8 0	15°45'53	5R22	24°44	29°26	6°32	28°41	20°54	17°59	2°12	13°57	11°34	11°43	19°49	15°43						
T 4	3 11 56	16°46'38	18°32	26°16	0R31	7° 5	28°34	20°53	17°58	2°14	14° 0	11°34	11°39	19°56	15°40						
F 5	3 15 53	17°47'23	1R19	27°48	1°36	7°37	28°26	20°52	17°58	2°16	14° 2	11°34	11°36	20° 3	15°37						
S 6	3 19 50	18°48'10	13°48	29°20	2°41	8°10	28°19	20°51	17°57	2°18	14° 4	11°32	11°33	20°10	15°34						
S 7	3 23 46	19°48'57	26° 4	0R52	3°46	8°42	28°12	20°50	17°56	2°19	14° 7	11°27	11°30	20°16	15°31						
M 8	3 27 43	20°49'46	8Y10	2°24	4°52	9°14	28° 5	20°49	17°55	2°21	14° 9	11°19	11°27	20°23	15°27						
T 9	3 31 39	21°50'35	20° 9	3°56	5°58	9°46	27°58	20°48	17°55	2°23	14°12	11° 9	11°24	20°30	15°24						
W10	3 35 36	22°51'26	2R 4	5°27	7° 4	10°18	27°52	20°46	17°54	2°25	14°14	10°56	11°20	20°36	15°21						
T11	3 39 32	23°52'18	13°58	6°58	8°10	10°50	27°45	20°45	17°53	2°27	14°16	10°41	11°17	20°43	15°18						
F12	3 43 29	24°53'11	25°50	8°29	9°17	11°21	27°39	20°43	17°53	2°29	14°19	10°27	11°14	20°50	15°15						
S13	3 47 25	25°54'05	7M43	10° 0	10°24	11°53	27°32	20°41	17°52	2°30	14°21	10°13	11°11	20°57	15°11						
S14	3 51 22	26°55'01	19°39	11°30	11°31	12°24	27°26	20°39	17°52	2°32	14°24	10° 2	11° 8	21° 3	15° 8						
M15	3 55 19	27°55'57	1R37	13° 0	12°38	12°56	27°20	20°38	17°51	2°34	14°26	9°53	11° 4	21°10	15° 5						
T16	3 59 15	28°56'55	13°42	14°30	13°46	13°27	27°14	20°36	17°51	2°36	14°28	9°47	11° 1	21°17	15° 2						
W17	4 3 12	29°57'54	25°55	15°59	14°54	13°58	27° 9	20°33	17°51	2°38	14°31	9°44	10°58	21°24	14°59						
T18	4 7 8	0R58'54	8R20	17°27	16° 2	14°29	27° 3	20°31	17°51	2°40	14°33	9°D43	10°55	21°30	14°56						
F19	4 11 5	1°59'55	21° 2	18°55	17°10	15° 0	26°58	20°29	17°50	2°42	14°35	9°43	10°52	21°37	14°53						
S20	4 15 1	3° 0'57	4M 4	20°22	18°18	15°30	26°52	20°26	17°50	2°44	14°38	9°R43	10°49	21°44	14°50						
S21	4 18 58	4° 2'01	1R31	21°48	19°27	16° 1	26°47	20°24	17°50	2°46	14°40	9°43	10°45	21°50	14°47						
M22	4 22 54	5° 3'05	1R25	23°13	20°36	16°31	26°42	20°21	17°D50	2°48	14°42	9°40	10°42	21°57	14°44						
T23	4 26 51	6° 4'11	1R47	24°37	21°45	17° 1	26°38	20°18	17°50	2°50	14°44	9°34	10°39	22° 4	14°41						
W24	4 30 48	7° 5'18	0M35	25°59	22°54	17°31	26°33	20°16	17°50	2°52	14°47	9°27	10°36	22°11	14°38						
T25	4 34 44	8° 6'25	1R41	27°19	24° 3	18° 1	26°29	20°13	17°50	2°55	14°49	9°17	10°33	22°17	14°35						
F26	4 38 41	9° 7'34	0R58	28°37	25°13	18°31	26°25	20°10	17°51	2°57	14°51	9° 8	10°30	22°24	14°32						
S27	4 42 37	10° 8'43	16°14	29°52	26°23	19° 1	26°21	20° 7	17°51	2°59	14°53	8°59	10°26	22°31	14°30						
S28	4 46 34	11° 9'53	1R18	1R 5	27°32	19°30	26°17	20° 3	17°51	3° 1	14°56	8°51	10°23	22°37	14°27						
M29	4 50 30	12°11'03	16° 1	2°14	28°42	19°59	26°13	20° 0	17°51	3° 3	14°58	8°47	10°20	22°44	14°24						
T30	4 54 27	13R12'13	0R16	3R19	29R52	20M28	26Y10	19R57	17R52	3R 5	15M 0	8R44	10R17	22R51	14R21						

Delta T = 25m59s Julian Calendar 1 Nov. 1003 == Greg. Calendar 7 Nov. 1003

DECEMBER 1003 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑
W 1	4 58 24	14R13'24	14R 3	4R19	1M 2	20M57	26°R 7	19°R53	17R52	3R 7	15M 2	8R44	10R14	22R58	14°R19						
T 2	5 2 20	15°14'35	27°21	5°14	2°13	21°26	26Y 4	19R50	17°53	3°10	15° 4	8°45	10°10	23° 4	14R16						
F 3	5 6 17	16°15'46	10R14	6° 3	3°23	21°54	26° 1	19°46	17°53	3°12	15° 6	8°R46	10° 7	23°11	14°13						
S 4	5 10 13	17°16'57	22°45	6°45	4°34	22°23	25°58	19°42	17°54	3°14	15° 9	8°46	10° 4	23°18	14°11						
S 5	5 14 10	18°18'08	5Y 0	7°19	5°45	22°51	25°56	19°39	17°55	3°16	15°11	8°44	10° 1	23°25	14° 8						
M 6	5 18 6	19°19'19	17° 3	7°44	6°55	23°19	25°54	19°35	17°55	3°18	15°13	8°40	9°58	23°31	14° 6						
T 7	5 22 3	20°20'30	28°59	8° 0	8° 6	23°46	25°52	19°31	17°56	3°21	15°15	8°34	9°55	23°38	14° 3						
W 8	5 25 59	21°21'41	10R51	8°R 6	9°17	24°14	25°50	19°27	17°57	3°23	15°17	8°26	9°51	23°45	14° 1						
T 9	5 29 56	22°22'52	22°43	8° 0	10°28	24°41	25°49	19°23	17°58	3°25	15°19	8°17	9°48	23°51	13°59						
F10	5 33 53	23°24'03	4M36	7°42	11°40	25° 8	25°47	19°19	17°59	3°27	15°21	8° 8	9°45	23°58	13°56						
S11	5 37 49	24°25'14	16°33	7°13	12°51	25°35	25°46	19°14	17°59	3°30	15°23	7°59	9°42	24° 5	13°54						
S12	5 41 46	25°26'25	28°35	6°32	14° 2	26° 2	25°45	19°10	18° 0	3°32	15°25	7°52	9°39	24°12	13°52						
M13	5 45 42	26°27'37	10R44	5°39	15°14	26°28	25°44	19° 6	18° 2	3°34	15°27	7°47	9°36	24°18	13°50						
T14	5 49 39	27°28'48	23° 0	4°37	16°26	26°55	25°44	19° 2	18° 3	3°36	15°29	7°43	9°32	24°25	13°48						
W15	5 53 35	28°29'59	5R25	3°27	17°37	27°21	25°44	18°57	18° 4	3°39	15°31	7°D42	9°29	24°32	13°46						
T16	5 57 32	29°31'11	18° 2	2°11	18°49	27°46	25°D44	18°53	18° 5	3°41	15°33	7°42	9°26	24°38	13°44						
F17	6 1 28	0R32'22	0M52	0°51	20° 1	28°12	25°44	18°48	18° 6	3°43	15°34	7°44	9°23	24°45	13°42						
S18	6 5 25	1°33'33	13°59	29R31	21°13	28°37	25°44	18°44	18° 8	3°45	15°36	7°46	9°20	24°52	13°40						
S19	6 9 22	2°34'45	27°24	28°12	22°25	29° 2	25°44	18°39	18° 9	3°48	15°38	7°R47	9°16	24°59	13°38						
M20	6 13 18	3°35'56	11R10	26°56	23°37	29°27	25°45	18°34	18°10	3°50	15°40	7°46	9°13	25° 5	13°36						
T21	6 17 15	4°37'08	25°17	25°47	24°49	29°52	25°46	18°30	18°12	3°52	15°42	7°45	9°10	25°12	13°34						
W22	6 21 11	5°38'19	9M44	24°46	26° 1	0R16	25°47	18°25	18°13	3°55	15°43	7°42	9° 7	25°19	13°33						
T23	6 25 8	6°39'31	24°28	23°53	27°14	0°40	25°49	18°20	18°15	3°57	15°45	7°38	9° 4	25°26	13°31						
F24	6 29 4	7°40'42	9R23	23°10	28°26	1° 3	25°50	18°15	18°16	3°59	15°47	7°33	9° 1	25°32	13°30						
S25	6 33 1	8°41'53	24°20	22°37	29°39	1°27	25°52	18°10	18°18	4° 1	15°48	7°29	8°57	25°39	13°28						
S26	6 36 57	9°43'04	9R12	22°13	0R51	1°50	25°54	18° 6	18°20	4° 4	15°50	7°25	8°54	25°46	13°27						
M27	6 40 54	10°44'14	23°49	21°59	2° 4	2°13	25°56	18° 1	18°21	4° 6	15°52	7°23	8°51	25°52	13°25						
T28	6 44 51	11°45'24	8R 5	21°D53	3°16	2°35	25°58	17°56	18°23	4° 8	15°53	7°D23	8°48	25°59	13°24						
W29	6 48 47	12°46'32	21°56	21°57	4°29	2°57	26° 1	17°51	18°25	4°10	15°55	7°23	8°45	26° 6	13°23						
T30	6 52 44	13°47'40	5R22	22° 8	5°42	3°19	26° 4	17°46	18°27	4°13	15°56	7°25	8°42	26°13	13°22						
F31	6 56 40	14R48'47	18R22	22R26	6R55	3R41	26Y 7	17R41	18R29	4R15	15M58	7R26	8R38	26R19	13R21						

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