

SWISS EPHEMERIS for the year 1044

JANUARY 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	7 1 50	16♁7'19	20♁53	22♁6	10♁58	16♁13	29♁22	29♁43	17°R40	0°V21	3♁26	16°R18	14♁55	4♁6	0°V54								
M 2	7 5 47	17°8'25	2♁51	23°13	12°11	16°57	29°24	29°49	17°R39	0°21	3°28	16°R16	14°52	4°12	0°56								
T 3	7 9 43	18°9'30	14°58	24°22	13°25	17°41	29°25	29°54	17°38	0°22	3°29	16°13	14°49	4°19	0°57								
W 4	7 13 40	19°10'35	27°15	25°32	14°38	18°26	29°26	0♁0	17°37	0°23	3°31	16°9	14°46	4°26	0°59								
T 5	7 17 36	20°11'39	9♁45	26°45	15°52	19°10	29°27	0°5	17°36	0°24	3°33	16°3	14°42	4°32	1°0								
F 6	7 21 33	21°12'41	22°27	28°0	17°5	19°54	29°27	0°10	17°35	0°25	3°35	15°56	14°39	4°39	1°2								
S 7	7 25 30	22°13'43	5♁21	29°16	18°19	20°38	29°28	0°16	17°34	0°27	3°36	15°50	14°36	4°45	1°3								
S 8	7 29 26	23°14'43	18°28	0♁33	19°33	21°23	29°28	0°21	17°33	0°28	3°38	15°45	14°33	4°52	1°5								
M 9	7 33 23	24°15'43	1°V49	1°52	20°46	22°7	29°R28	0°26	17°32	0°29	3°40	15°41	14°30	4°59	1°7								
T 10	7 37 19	25°16'40	15°24	3°12	22°0	22°52	29°28	0°31	17°30	0°30	3°42	15°38	14°26	5°5	1°9								
W11	7 41 16	26°17'37	29°13	4°33	23°14	23°36	29°27	0°36	17°29	0°31	3°44	15°D38	14°23	5°12	1°10								
T 12	7 45 12	27°18'32	13♁17	5°56	24°28	24°21	29°27	0°41	17°28	0°32	3°45	15°39	14°20	5°19	1°12								
F 13	7 49 9	28°19'26	27°35	7°19	25°41	25°5	29°26	0°46	17°26	0°34	3°47	15°40	14°17	5°25	1°14								
S 14	7 53 5	29°20'18	12♁4	8°44	26°55	25°50	29°25	0°50	17°25	0°35	3°49	15°R41	14°14	5°32	1°16								
S 15	7 57 2	0♁21'10	26°42	10°9	28°9	26°34	29°24	0°55	17°23	0°36	3°51	15°41	14°11	5°39	1°18								
M16	8 0 59	1°21'59	11♁24	11°35	29°23	27°19	29°23	1°0	17°22	0°37	3°53	15°38	14°7	5°45	1°20								
T 17	8 4 55	2°22'47	26°1	13°3	0♁36	28°4	29°21	1°4	17°20	0°39	3°54	15°33	14°4	5°52	1°22								
W18	8 8 52	3°23'34	10♁29	14°31	1°50	28°48	29°20	1°9	17°19	0°40	3°56	15°27	14°1	5°59	1°25								
T 19	8 12 48	4°24'20	24°39	16°0	3°4	29°33	29°18	1°13	17°17	0°42	3°58	15°18	13°58	6°5	1°27								
F 20	8 16 45	5°25'04	8♁28	17°30	4°18	0♁18	29°16	1°18	17°16	0°43	4°0	15°10	13°55	6°12	1°29								
S 21	8 20 41	6°25'47	21°52	19°1	5°32	1°3	29°13	1°22	17°14	0°45	4°2	15°2	13°51	6°19	1°31								
S 22	8 24 38	7°26'29	4♁51	20°32	6°46	1°48	29°11	1°26	17°12	0°46	4°3	14°55	13°48	6°25	1°34								
M23	8 28 34	8°27'10	17°27	22°5	8°0	2°32	29°8	1°30	17°10	0°48	4°5	14°50	13°45	6°32	1°36								
T 24	8 32 31	9°27'49	29°43	23°38	9°14	3°17	29°6	1°34	17°8	0°49	4°7	14°48	13°42	6°38	1°38								
W25	8 36 28	10°28'28	11♁44	25°13	10°28	4°2	29°3	1°38	17°6	0°51	4°9	14°D47	13°39	6°45	1°41								
T 26	8 40 24	11°29'05	23°36	26°48	11°41	4°47	28°59	1°42	17°5	0°52	4°11	14°48	13°36	6°52	1°43								
F 27	8 44 21	12°29'41	5♁23	28°24	12°55	5°32	28°56	1°46	17°3	0°54	4°12	14°49	13°32	6°58	1°46								
S 28	8 48 17	13°30'16	17°11	0♁0	14°9	6°17	28°53	1°49	17°1	0°56	4°14	14°R49	13°29	7°5	1°48								
S 29	8 52 14	14°30'49	29°5	1°38	15°23	7°2	28°49	1°53	16°59	0°57	4°16	14°48	13°26	7°12	1°51								
M30	8 56 10	15°31'21	11♁9	3°17	16°37	7°47	28°45	1°56	16°57	0°59	4°18	14°45	13°23	7°18	1°54								
T 31	9 0 7	16♁31'51	23♁26	4♁56	17♁51	8♁33	28♁41	2♁0	16♁54	1°V1	4♁19	14♁38	13♁20	7♁25	1°V56								

Delta T = 22m40s

Julian Calendar 1 Jan. 1044 == Greg. Calendar 7 Jan. 1044

FEBRUARY 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	9 4 4	17♁32'20	5♁58	6♁37	19♁5	9♁18	28°R37	2♁3	16°R52	1°V2	4♁21	14°R30	13♁17	7♁32	1°V59								
T 2	9 8 0	18°32'47	18°46	8°18	20°19	10°3	28°R32	2°7	16°R50	1°4	4°23	14°R19	13°13	7°38	2°2								
F 3	9 11 57	19°33'13	1♁50	10°1	21°33	10°48	28°28	2°10	16°48	1°6	4°25	14°7	13°10	7°45	2°5								
S 4	9 15 53	20°33'36	15°8	11°44	22°47	11°33	28°23	2°13	16°46	1°8	4°27	13°56	13°7	7°52	2°7								
S 5	9 19 50	21°33'58	28°38	13°28	24°1	12°19	28°18	2°16	16°43	1°10	4°28	13°45	13°4	7°58	2°10								
M 6	9 23 46	22°34'18	12°V19	15°13	25°16	13°4	28°13	2°19	16°41	1°11	4°30	13°37	13°1	8°5	2°13								
T 7	9 27 43	23°34'36	26°7	17°0	26°30	13°49	28°8	2°21	16°39	1°13	4°32	13°31	12°57	8°12	2°16								
W 8	9 31 39	24°34'51	10♁2	18°47	27°44	14°34	28°3	2°24	16°37	1°15	4°33	13°28	12°54	8°18	2°19								
T 9	9 35 36	25°35'05	24°3	20°35	28°58	15°20	27°57	2°27	16°34	1°17	4°35	13°D28	12°51	8°25	2°22								
F 10	9 39 32	26°35'17	8♁19	22°25	0♁12	16°5	27°52	2°29	16°32	1°19	4°37	13°R28	12°48	8°31	2°25								
S 11	9 43 29	27°35'26	22°19	24°15	1°26	16°51	27°46	2°32	16°29	1°21	4°39	13°28	12°45	8°38	2°28								
S 12	9 47 26	28°35'33	6♁32	26°6	2°40	17°36	27°40	2°34	16°27	1°23	4°40	13°26	12°42	8°45	2°31								
M13	9 51 22	29°35'38	20°46	27°59	3°54	18°21	27°34	2°36	16°25	1°25	4°42	13°22	12°38	8°51	2°34								
T 14	9 55 19	0♁35'41	4♁57	29°52	5°8	19°7	27°28	2°38	16°22	1°27	4°44	13°14	12°35	8°58	2°37								
W15	9 59 15	1°35'42	19°1	1♁46	6°22	19°52	27°22	2°41	16°20	1°29	4°45	13°4	12°32	9°5	2°40								
T 16	10 3 12	2°35'41	2♁52	3°41	7°36	20°38	27°16	2°42	16°17	1°31	4°47	12°52	12°29	9°11	2°43								
F 17	10 7 8	3°35'38	16°28	5°37	8°50	21°23	27°9	2°44	16°15	1°33	4°48	12°40	12°26	9°18	2°46								
S 18	10 11 5	4°35'33	29°44	7°34	10°4	22°9	27°2	2°46	16°12	1°35	4°50	12°27	12°23	9°25	2°50								
S 19	10 15 1	5°35'26	12♁39	9°31	11°18	22°54	26°56	2°48	16°10	1°37	4°52	12°17	12°19	9°31	2°53								
M20	10 18 58	6°35'17	25°14	11°29	12°32	23°40	26°49	2°49	16°7	1°39	4°53	12°9	12°16	9°38	2°56								
T 21	10 22 55	7°35'07	7♁30	13°28	13°46	24°26	26°42	2°51	16°4	1°41	4°55	12°3	12°13	9°45	2°59								
W22	10 26 51	8°34'54	19°33	15°26	15°0	25°11	26°35	2°52	16°2	1°43	4°56	12°0	12°10	9°51	3°3								
T 23	10 30 48	9°34'40	1♁25	17°24	16°14	25°57	26°28	2°53	15°59	1°46	4°58	11°59	12°7	9°58	3°6								
F 24	10 34 44	10°34'25	13°13	19°22	17°28	26°42	26°21	2°55	15°57	1°48	5°0	11°59	12°3	10°4	3°9								
S 25	10 38 41	11°34'07	25°2	21°20	18°42	27°28	26°14	2°56	15°54	1°50	5°1	11°59	12°0	10°11	3°13								
S 26	10 42 37	12°33'48	6♁58	23°17	19°56	28°14	26°6	2°57	15°52	1°52	5°3	11°57	11°57	10°18	3°16								
M27	10 46 34	13°33'27	19°5	25°12	21°10	29°0	25°59	2°58	15°49	1°54	5°4	11°53	11°54	10°24	3°19								
T 28	10 50 30	14°33'04	1♁29	27°6	22°24	29°45	25°52	2°58	15°46	1°56	5°6	11°47	11°51	10°31	3°23								
W29	10 54 27	15♁32'39	14♁11	28♁58	23♁38	0♁31	25♁44	2♁59	15♁44	1°V59	5♁7	11♁38	11♁48	10♁38	3°V26								

Delta T = 22m39s

Julian Calendar

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SWISS EPHEMERIS for the year 1044

MARCH 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	10 58 24	16X32'12	27≈14	0Y48	24≈52	1≈17	25°R37	3X 0	15°R41	2Y 1	5≈ 8	11°R26	11X44	10X44	3Y29
F 2	11 2 20	17°31'44	10X38	2°34	26° 6	2° 3	25M29	3° 0	15M39	2° 3	5°10	11X14	11°41	10°51	3°33
S 3	11 6 17	18°31'13	24°19	4°17	27°20	2°48	25°21	3° 0	15°36	2° 5	5°11	11° 1	11°38	10°58	3°36
S 4	11 10 13	19°30'40	8Y16	5°57	28°34	3°34	25°14	3° 1	15°33	2° 7	5°13	10°49	11°35	11° 4	3°40
M 5	11 14 10	20°30'05	22°22	7°32	29°48	4°20	25° 6	3° 1	15°31	2°10	5°14	10°40	11°32	11°11	3°43
T 6	11 18 6	21°29'27	6B34	9° 3	1X 2	5° 6	24°58	3°R 1	15°28	2°12	5°15	10°34	11°28	11°18	3°47
W 7	11 22 3	22°28'48	20°48	10°29	2°16	5°51	24°51	3° 1	15°26	2°14	5°17	10°30	11°25	11°24	3°50
T 8	11 25 59	23°28'06	4II59	11°49	3°30	6°37	24°43	3° 1	15°23	2°16	5°18	10°D29	11°22	11°31	3°54
F 9	11 29 56	24°27'21	19° 8	13° 4	4°44	7°23	24°35	3° 1	15°20	2°19	5°19	10°R29	11°19	11°38	3°57
S 10	11 33 53	25°26'35	3E12	14°13	5°58	8° 9	24°27	3° 0	15°18	2°21	5°21	10°29	11°16	11°44	4° 1
S 11	11 37 49	26°25'45	17°11	15°15	7°12	8°55	24°20	3° 0	15°15	2°23	5°22	10°28	11°13	11°51	4° 4
M12	11 41 46	27°24'54	1Ω 4	16°11	8°26	9°41	24°12	2°59	15°13	2°25	5°23	10°24	11° 9	11°57	4° 8
T 13	11 45 42	28°24'00	14°50	17° 1	9°40	10°26	24° 4	2°59	15°10	2°28	5°24	10°17	11° 6	12° 4	4°11
W14	11 49 39	29°23'04	28°27	17°43	10°54	11°12	23°57	2°58	15° 8	2°30	5°25	10° 8	11° 3	12°11	4°15
T 15	11 53 35	0Y22'05	11M53	18°19	12° 8	11°58	23°49	2°57	15° 5	2°32	5°27	9°57	11° 0	12°17	4°18
F 16	11 57 32	1°21'04	25° 6	18°48	13°22	12°44	23°41	2°56	15° 3	2°34	5°28	9°45	10°57	12°24	4°22
S 17	12 1 28	2°20'01	8Ω 4	19°10	14°36	13°30	23°34	2°55	15° 0	2°37	5°29	9°34	10°54	12°31	4°25
S 18	12 5 25	3°18'57	20°47	19°25	15°50	14°16	23°26	2°54	14°58	2°39	5°30	9°24	10°50	12°37	4°29
M19	12 9 21	4°17'50	3M13	19°33	17° 4	15° 1	23°19	2°53	14°56	2°41	5°31	9°16	10°47	12°44	4°32
T 20	12 13 18	5°16'41	15°25	19°R35	18°18	15°47	23°11	2°52	14°53	2°43	5°32	9°11	10°44	12°51	4°36
W21	12 17 15	6°15'30	27°25	19°30	19°32	16°33	23° 4	2°50	14°51	2°46	5°33	9° 8	10°41	12°57	4°39
T 22	12 21 11	7°14'18	9X17	19°18	20°46	17°19	22°56	2°49	14°48	2°48	5°34	9°D 7	10°38	13° 4	4°43
F 23	12 25 8	8°13'04	21° 5	19° 1	22° 0	18° 5	22°49	2°47	14°46	2°50	5°35	9° 8	10°34	13°11	4°47
S 24	12 29 4	9°11'48	2B54	18°39	23°14	18°51	22°42	2°46	14°44	2°53	5°36	9° 9	10°31	13°17	4°50
S 25	12 33 1	10°10'30	14°50	18°12	24°27	19°37	22°35	2°44	14°42	2°55	5°37	9°R 9	10°28	13°24	4°54
M26	12 36 57	11° 9'11	26°58	17°40	25°41	20°22	22°28	2°42	14°39	2°57	5°38	9° 7	10°25	13°30	4°57
T 27	12 40 54	12° 7'50	9≈23	17° 5	26°55	21° 8	22°21	2°40	14°37	2°59	5°39	9° 4	10°22	13°37	5° 1
W28	12 44 50	13° 6'27	22° 9	16°26	28° 9	21°54	22°14	2°38	14°35	3° 2	5°40	8°58	10°19	13°44	5° 4
T 29	12 48 47	14° 5'02	5X18	15°46	29°23	22°40	22° 7	2°36	14°33	3° 4	5°41	8°51	10°15	13°50	5° 8
F 30	12 52 44	15° 3'35	18°52	15° 4	0Y37	23°26	22° 1	2°34	14°31	3° 6	5°42	8°42	10°12	13°57	5°11
S 31	12 56 40	16Y 2'07	2Y50	14Y22	1Y51	24≈12	21M54	2X32	14M28	3Y 8	5≈42	8X33	10X 9	14X 4	5Y15

Delta T = 22m39s Julian Calendar 1 March 1044 == Greg. Calendar 7 March 1044

APRIL 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	13 0 37	17Y 0'37	17Y 7	13°R39	3Y 5	24≈57	21°R47	2°R29	14°R26	3Y10	5≈43	8°R25	10X 6	14X10	5Y18
M 2	13 4 33	17°59'04	1B37	12Y58	4°19	25°43	21M41	2X27	14M24	3°13	5°44	8X19	10° 3	14°17	5°22
T 3	13 8 30	18°57'30	16°15	12°18	5°32	26°29	21°35	2°24	14°22	3°15	5°45	8°15	10° 0	14°24	5°25
W 4	13 12 26	19°55'54	0II53	11°41	6°46	27°15	21°29	2°22	14°20	3°17	5°45	8°13	9°56	14°30	5°29
T 5	13 16 23	20°54'16	15°26	11° 7	8° 0	28° 1	21°23	2°19	14°18	3°19	5°46	8°D13	9°53	14°37	5°32
F 6	13 20 19	21°52'36	29°49	10°35	9°14	28°46	21°17	2°16	14°17	3°21	5°47	8°14	9°50	14°44	5°35
S 7	13 24 16	22°50'54	14E 1	10° 8	10°28	29°32	21°11	2°13	14°15	3°24	5°47	8°15	9°47	14°50	5°39
S 8	13 28 13	23°49'09	27°58	9°45	11°42	0X18	21° 6	2°10	14°13	3°26	5°48	8°R15	9°44	14°57	5°42
M 9	13 32 9	24°47'22	11Ω42	9°26	12°55	1° 3	21° 0	2° 7	14°11	3°28	5°49	8°14	9°40	15° 3	5°46
T 10	13 36 6	25°45'33	25°12	9°12	14° 9	1°49	20°55	2° 4	14° 9	3°30	5°49	8°11	9°37	15°10	5°49
W11	13 40 2	26°43'43	8M29	9° 2	15°23	2°35	20°50	2° 1	14° 8	3°32	5°50	8° 6	9°34	15°17	5°52
T 12	13 43 59	27°41'50	21°32	8°D58	16°37	3°20	20°45	1°58	14° 6	3°34	5°50	7°59	9°31	15°23	5°56
F 13	13 47 55	28°39'55	4Ω23	8°58	17°50	4° 6	20°40	1°55	14° 4	3°36	5°51	7°53	9°28	15°30	5°59
S 14	13 51 52	29°37'58	17° 0	9° 3	19° 4	4°51	20°35	1°51	14° 3	3°38	5°51	7°46	9°25	15°37	6° 2
S 15	13 55 48	0B36'00	29°25	9°13	20°18	5°37	20°31	1°48	14° 1	3°41	5°52	7°40	9°21	15°43	6° 6
M16	13 59 45	1°34'00	11M39	9°27	21°32	6°23	20°26	1°45	14° 0	3°43	5°52	7°36	9°18	15°50	6° 9
T 17	14 3 42	2°31'58	23°42	9°46	22°45	7° 8	20°22	1°41	13°58	3°45	5°52	7°33	9°15	15°57	6°12
W18	14 7 38	3°29'55	5X37	10° 9	23°59	7°54	20°18	1°37	13°57	3°47	5°53	7°D32	9°12	16° 3	6°15
T 19	14 11 35	4°27'50	17°27	10°37	25°13	8°39	20°14	1°34	13°55	3°49	5°53	7°33	9° 9	16°10	6°19
F 20	14 15 31	5°25'44	29°14	11° 8	26°27	9°25	20°10	1°30	13°54	3°51	5°53	7°34	9° 5	16°17	6°22
S 21	14 19 28	6°23'37	11B 4	11°44	27°40	10°10	20° 7	1°26	13°53	3°53	5°54	7°36	9° 2	16°23	6°25
S 22	14 23 24	7°21'28	23° 0	12°24	28°54	10°55	20° 3	1°23	13°52	3°55	5°54	7°37	8°59	16°30	6°28
M23	14 27 21	8°19'18	5≈ 8	13° 7	0B 8	11°41	20° 0	1°19	13°50	3°57	5°54	7°R38	8°56	16°37	6°31
T 24	14 31 17	9°17'07	17°31	13°54	1°22	12°26	19°57	1°15	13°49	3°59	5°54	7°38	8°53	16°43	6°34
W25	14 35 14	10°14'54	0X15	14°45	2°35	13°11	19°54	1°11	13°48	4° 0	5°54	7°36	8°50	16°50	6°37
T 26	14 39 11	11°12'40	13°24	15°38	3°49	13°57	19°51	1° 7	13°47	4° 2	5°55	7°34	8°46	16°56	6°41
F 27	14 43 7	12°10'25	26°59	16°36	5° 3	14°42	19°49	1° 3	13°46	4° 4	5°55	7°31	8°43	17° 3	6°44
S 28	14 47 4	13° 8'09	11Y 0	17°36	6°17	15°27	19°46	0°59	13°45	4° 6	5°55	7°27	8°40	17°10	6°47
S 29	14 51 0	14° 5'52	25°25	18°39	7°30	16°12	19°44	0°55	13°44	4° 8	5°55	7°24	8°37	17°16	6°50
M30	14 54 57	15B 3'33	10B 9	19Y45	8B44	16X57	19M42	0X50	13M44	4Y10	5≈55	7X21	8X34	17X23	6Y52

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SWISS EPHEMERIS for the year 1044

MAY 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	14 58 53	16♈ 1'13	25♅ 5	20♃54	9♄58	17♁43	19°R40	0°R46	13°R43	4♃12	5°R55	7°R20	8♁31	17♁30	6♃55
W 2	15 2 50	16°58'52	10♁ 5	22° 6	11°11	18°28	19♁38	0♁42	13♁42	4°13	5♁55	7°D20	8°27	17°36	6°58
T 3	15 6 46	17°56'30	25° 0	23°21	12°25	19°13	19°37	0°38	13°41	4°15	5°55	7♁20	8°24	17°43	7° 1
F 4	15 10 43	18°54'06	9♄44	24°38	13°39	19°58	19°36	0°34	13°41	4°17	5°55	7°21	8°21	17°50	7° 4
S 5	15 14 40	19°51'41	24°11	25°58	14°53	20°43	19°35	0°29	13°40	4°19	5°55	7°23	8°18	17°56	7° 7
S 6	15 18 36	20°49'14	8♁18	27°21	16° 6	21°27	19°34	0°25	13°40	4°20	5°54	7°23	8°15	18° 3	7°10
M 7	15 22 33	21°46'45	22° 3	28°46	17°20	22°12	19°33	0°21	13°39	4°22	5°54	7°R24	8°11	18°10	7°12
T 8	15 26 29	22°44'15	5♁28	0♁14	18°34	22°57	19°32	0°16	13°39	4°24	5°54	7°23	8° 8	18°16	7°15
W 9	15 30 26	23°41'44	18°34	1°44	19°47	23°42	19°32	0°12	13°38	4°25	5°54	7°22	8° 5	18°23	7°18
T 10	15 34 22	24°39'11	1♁23	3°17	21° 1	24°26	19°32	0° 7	13°38	4°27	5°54	7°21	8° 2	18°30	7°20
F 11	15 38 19	25°36'37	13°56	4°52	22°15	25°11	19°D32	0° 3	13°38	4°29	5°53	7°19	7°59	18°36	7°23
S 12	15 42 15	26°34'02	26°17	6°29	23°28	25°56	19°32	29♁59	13°38	4°30	5°53	7°18	7°56	18°43	7°25
S 13	15 46 12	27°31'25	8♁27	8°10	24°42	26°40	19°32	29°54	13°37	4°32	5°53	7°17	7°52	18°49	7°28
M14	15 50 9	28°28'48	20°28	9°52	25°56	27°25	19°33	29°50	13°37	4°33	5°53	7°16	7°49	18°56	7°30
T 15	15 54 5	29°26'10	2♁23	11°37	27° 9	28° 9	19°33	29°45	13°37	4°35	5°52	7°D15	7°46	19° 3	7°33
W16	15 58 2	0♁23'30	14°13	13°25	28°23	28°54	19°34	29°41	13°D37	4°36	5°52	7°15	7°43	19° 9	7°35
T 17	16 1 58	1°20'51	26° 1	15°15	29°37	29°38	19°35	29°37	13°37	4°38	5°51	7°16	7°40	19°16	7°38
F 18	16 5 55	2°18'10	7♁49	17° 7	0♁50	0♃22	19°36	29°32	13°37	4°39	5°51	7°16	7°37	19°23	7°40
S 19	16 9 51	3°15'28	19°41	19° 2	2° 4	1° 6	19°38	29°28	13°37	4°40	5°51	7°17	7°33	19°29	7°42
S 20	16 13 48	4°12'46	1♁39	20°58	3°18	1°51	19°39	29°23	13°38	4°42	5°50	7°17	7°30	19°36	7°45
M21	16 17 44	5°10'04	13°48	22°58	4°31	2°35	19°41	29°19	13°38	4°43	5°50	7°17	7°27	19°43	7°47
T 22	16 21 41	6° 7'21	26°12	24°59	5°45	3°19	19°43	29°15	13°38	4°44	5°49	7°17	7°24	19°49	7°49
W23	16 25 38	7° 4'37	8♁53	27° 2	6°59	4° 3	19°45	29°10	13°39	4°46	5°49	7°17	7°21	19°56	7°51
T 24	16 29 34	8° 1'53	21°57	29° 7	8°12	4°47	19°47	29° 6	13°39	4°47	5°48	7°17	7°17	20° 3	7°53
F 25	16 33 31	8°59'09	5♃26	1♁13	9°26	5°31	19°50	29° 1	13°39	4°48	5°47	7°18	7°14	20° 9	7°55
S 26	16 37 27	9°56'24	19°21	3°21	10°40	6°14	19°53	28°57	13°40	4°49	5°47	7°18	7°11	20°16	7°58
S 27	16 41 24	10°53'40	3♁42	5°31	11°53	6°58	19°55	28°53	13°41	4°50	5°46	7°18	7° 8	20°23	8° 0
M28	16 45 20	11°50'54	18°26	7°41	13° 7	7°42	19°58	28°49	13°41	4°52	5°45	7°18	7° 5	20°29	8° 1
T 29	16 49 17	12°48'09	3♁27	9°52	14°21	8°25	20° 1	28°44	13°42	4°53	5°45	7°R19	7° 2	20°36	8° 3
W30	16 53 13	13°45'23	18°36	12° 3	15°34	9° 9	20° 5	28°40	13°43	4°54	5°44	7°18	6°58	20°42	8° 5
T 31	16 57 10	14♁24'37	3♁46	14♁15	16♁48	9♃52	20♁ 8	28♁36	13♁43	4♃55	5♁43	7♁18	6♁55	20♁49	8♃ 7

Delta T = 22m38s Julian Calendar 1 May 1044 == Greg. Calendar 7 May 1044

JUNE 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
F 1	17 1 7	15♁39'50	18♁46	16♁27	18♁ 2	10♃36	20♁12	28°R32	13♁44	4♃56	5°R43	7°R17	6♁52	20♁56	8♃ 9
S 2	17 5 3	16°37'03	3♁29	18°38	19°16	11°19	20°16	28♁28	13°45	4°57	5♁42	7♁16	6°49	21° 2	8°11
S 3	17 9 0	17°34'14	17°49	20°48	20°29	12° 2	20°19	28°24	13°46	4°58	5°41	7°15	6°46	21° 9	8°12
M 4	17 12 56	18°31'26	1♁43	22°58	21°43	12°45	20°24	28°20	13°47	4°59	5°40	7°14	6°43	21°16	8°14
T 5	17 16 53	19°28'36	15°11	25° 6	22°57	13°29	20°28	28°16	13°48	5° 0	5°39	7°D14	6°39	21°22	8°15
W 6	17 20 49	20°25'47	28°15	27°13	24°10	14°11	20°32	28°12	13°49	5° 1	5°39	7°14	6°36	21°29	8°17
T 7	17 24 46	21°22'56	10♁57	29°19	25°24	14°54	20°37	28° 8	13°50	5° 1	5°38	7°15	6°33	21°36	8°18
F 8	17 28 42	22°20'05	23°22	1♁23	26°38	15°37	20°42	28° 4	13°52	5° 2	5°37	7°16	6°30	21°42	8°20
S 9	17 32 39	23°17'14	5♁32	3°26	27°52	16°20	20°46	28° 0	13°53	5° 3	5°36	7°17	6°27	21°49	8°21
S 10	17 36 36	24°14'23	17°32	5°27	29° 5	17° 3	20°52	27°56	13°54	5° 4	5°35	7°18	6°23	21°56	8°23
M11	17 40 32	25°11'31	29°25	7°26	0♁19	17°45	20°57	27°53	13°55	5° 4	5°34	7°19	6°20	22° 2	8°24
T 12	17 44 29	26° 8'40	11♁14	9°23	1°33	18°28	21° 2	27°49	13°57	5° 5	5°33	7°R19	6°17	22° 9	8°25
W13	17 48 25	27° 5'48	23° 1	11°18	2°47	19°10	21° 8	27°46	13°58	5° 6	5°32	7°19	6°14	22°16	8°26
T 14	17 52 22	28° 2'56	4♁50	13°11	4° 0	19°52	21°13	27°42	14° 0	5° 6	5°31	7°17	6°11	22°22	8°28
F 15	17 56 18	29° 0'05	16°43	15° 2	5°14	20°35	21°19	27°39	14° 1	5° 7	5°30	7°14	6° 8	22°29	8°29
S 16	18 0 15	29°57'13	28°41	16°51	6°28	21°17	21°25	27°35	14° 3	5° 8	5°29	7°11	6° 4	22°36	8°30
S 17	18 4 11	0♁54'22	10♁46	18°38	7°41	21°59	21°31	27°32	14° 5	5° 8	5°28	7° 7	6° 1	22°42	8°31
M18	18 8 8	1°51'31	23° 1	20°23	8°55	22°41	21°37	27°29	14° 6	5° 9	5°27	7° 3	5°58	22°49	8°32
T 19	18 12 5	2°48'40	5♁29	22° 6	10° 9	23°22	21°43	27°25	14° 8	5° 9	5°26	7° 0	5°55	22°56	8°33
W20	18 16 1	3°45'50	18°12	23°47	11°23	24° 4	21°50	27°22	14°10	5°10	5°25	6°58	5°52	23° 2	8°34
T 21	18 19 58	4°43'00	1♃14	25°26	12°36	24°46	21°57	27°19	14°12	5°10	5°24	6°D57	5°49	23° 9	8°34
F 22	18 23 54	5°40'11	14°36	27° 3	13°50	25°27	22° 3	27°16	14°13	5°10	5°23	6°57	5°45	23°15	8°35
S 23	18 27 51	6°37'22	28°22	28°39	15° 4	26° 9	22°10	27°13	14°15	5°11	5°21	6°58	5°42	23°22	8°36
S 24	18 31 47	7°34'34	12♁31	0♁12	16°18	26°50	22°17	27°10	14°17	5°11	5°20	7° 0	5°39	23°29	8°36
M25	18 35 44	8°31'47	27° 3	1°43	17°32	27°31	22°24	27° 8	14°19	5°11	5°19	7° 1	5°36	23°35	8°37
T 26	18 39 40	9°29'01	11♁54	3°11	18°45	28°13	22°32	27° 5	14°21	5°11	5°18	7°R 1	5°33	23°42	8°38
W27	18 43 37	10°26'15	26°59	4°38	19°59	28°54	22°39	27° 2	14°24	5°12	5°17	7° 0	5°29	23°49	8°38
T 28	18 47 34	11°23'30	12♁ 8	6° 3	21°13	29°34	22°47	27° 0	14°26	5°12	5°16	6°57	5°26	23°55	8°39
F 29	18 51 30	12°20'45	27°13	7°26	22°27	0♁15	22°54	26°57	14°28	5°12	5°14	6°53	5°23	24° 2	8°39
S 30	18 55 27	13♁18'01	12♁ 4	8♁46	23♁41	0♁56	23♁ 2	26♁55	14♁30	5♃12	5♁13	6♁48	5♁20	24♁ 9	8♃39

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SWISS EPHEMERIS for the year 1044

JULY 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	18 59 23	14 ⁵ 15'17	26 ^Ω 33	10 ^Ω 4	24 [♁] 54	1 [♂] 36	23 [♃] 10	26 [♄] R53	14 [♅] 32	5 [♆] 12	5 [♇] R12	6 [♈] R42	5 [♉] 17	24 [♊] 15	8 [♋] 40		
M 2	19 3 20	15 ⁵ 12'33	10 [♃] 36	11 [♄] 20	26 [♅] 8	2 [♆] 17	23 [♇] 18	26 [♈] 50	14 [♉] 35	5 [♊] 12	5 [♋] 11	6 [♌] 38	5 [♍] 14	24 [♎] 22	8 [♏] 40		
T 3	19 7 16	16 ⁵ 9'50	24 [♈] 10	12 [♉] 34	27 [♊] 22	2 [♋] 57	23 [♌] 26	26 [♍] 48	14 [♎] 37	5 [♏] R12	5 [♐] 9	6 [♑] 34	5 [♒] 10	24 [♓] 29	8 [♔] 40		
W 4	19 11 13	17 ⁵ 7'07	7 [♁] 17	13 [♂] 45	28 [♃] 36	3 [♄] 37	23 [♅] 34	26 [♆] 46	14 [♇] 39	5 [♈] 12	5 [♉] 8	6 [♊] 32	5 [♋] 7	24 [♌] 35	8 [♍] 40		
T 5	19 15 9	18 ⁵ 4'24	19 [♈] 59	14 [♉] 54	29 [♊] 50	4 [♋] 17	23 [♌] 43	26 [♍] 44	14 [♎] 42	5 [♏] 12	5 [♐] 7	6 [♑] D32	5 [♒] 4	24 [♓] 42	8 [♔] 40		
F 6	19 19 6	19 ⁵ 1'42	2 [♃] 21	16 [♄] 1	1 [♅] 3	4 [♆] 57	23 [♇] 51	26 [♈] 42	14 [♉] 44	5 [♊] 12	5 [♋] 6	6 [♌] 32	5 [♍] 1	24 [♎] 49	8 [♏] R40		
S 7	19 23 3	19 ⁵ 59'01	14 [♈] 27	17 [♉] 4	2 [♊] 17	5 [♋] 37	24 [♌] 0	26 [♍] 41	14 [♎] 47	5 [♏] 12	5 [♐] 4	6 [♑] 34	4 [♒] 58	24 [♓] 55	8 [♔] 40		
S 8	19 26 59	20 ⁵ 56'20	26 [♈] 22	18 [♉] 5	3 [♊] 31	6 [♋] 17	24 [♌] 8	26 [♍] 39	14 [♎] 49	5 [♏] 12	5 [♐] 3	6 [♑] 35	4 [♒] 55	25 [♓] 2	8 [♔] 40		
M 9	19 30 56	21 ⁵ 53'40	8 [♈] 12	19 [♉] 3	4 [♊] 45	6 [♋] 56	24 [♌] 17	26 [♍] 37	14 [♎] 52	5 [♏] 12	5 [♐] 2	6 [♑] R36	4 [♒] 51	25 [♓] 9	8 [♔] 40		
T 10	19 34 52	22 ⁵ 51'00	19 [♈] 59	19 [♉] 59	5 [♊] 59	7 [♋] 36	24 [♌] 26	26 [♍] 36	14 [♎] 55	5 [♏] 11	5 [♐] 0	6 [♑] 34	4 [♒] 48	25 [♓] 15	8 [♔] 40		
W11	19 38 49	23 ⁵ 48'22	1 [♃] 48	20 [♄] 51	7 [♅] 13	8 [♆] 15	24 [♇] 35	26 [♈] 34	14 [♉] 57	5 [♊] 11	4 [♋] 59	6 [♌] 31	4 [♍] 45	25 [♎] 22	8 [♏] 40		
T 12	19 42 45	24 ⁵ 45'44	13 [♈] 41	21 [♉] 40	8 [♊] 26	8 [♋] 54	24 [♌] 44	26 [♍] 33	15 [♎] 0	5 [♏] 11	4 [♐] 58	6 [♑] 26	4 [♒] 42	25 [♓] 29	8 [♔] 39		
F 13	19 46 42	25 ⁵ 43'07	25 [♈] 40	22 [♉] 25	9 [♊] 40	9 [♋] 33	24 [♌] 53	26 [♍] 32	15 [♎] 3	5 [♏] 10	4 [♐] 56	6 [♑] 19	4 [♒] 39	25 [♓] 35	8 [♔] 39		
S 14	19 50 38	26 ⁵ 40'31	7 [♁] 48	23 [♂] 7	10 [♃] 54	10 [♄] 12	25 [♅] 3	26 [♆] 31	15 [♇] 6	5 [♈] 10	4 [♉] 55	6 [♊] 11	4 [♋] 35	25 [♌] 42	8 [♍] 39		
S 15	19 54 35	27 ⁵ 37'55	20 [♈] 6	23 [♉] 45	12 [♊] 8	10 [♋] 50	25 [♌] 12	26 [♍] 30	15 [♎] 8	5 [♏] 10	4 [♐] 54	6 [♑] 1	4 [♒] 32	25 [♓] 49	8 [♔] 38		
M16	19 58 32	28 ⁵ 35'21	2 [♃] 34	24 [♄] 20	13 [♅] 22	11 [♆] 29	25 [♇] 22	26 [♈] 29	15 [♉] 11	5 [♊] 9	4 [♋] 52	5 [♌] 52	4 [♍] 29	25 [♎] 55	8 [♏] 38		
T 17	20 2 28	29 ⁵ 32'49	15 [♈] 13	24 [♉] 50	14 [♊] 35	12 [♋] 7	25 [♌] 31	26 [♍] 28	15 [♎] 14	5 [♏] 9	4 [♐] 51	5 [♑] 44	4 [♒] 26	26 [♓] 2	8 [♔] 37		
W18	20 6 25	0 [♁] 30'17	28 [♈] 5	25 [♉] 16	15 [♊] 49	12 [♋] 46	25 [♌] 41	26 [♍] 27	15 [♎] 17	5 [♏] 8	4 [♐] 50	5 [♑] 38	4 [♒] 23	26 [♓] 8	8 [♔] 37		
T 19	20 10 21	1 [♂] 27'47	11 [♃] 11	25 [♄] 37	17 [♅] 3	13 [♆] 24	25 [♇] 51	26 [♈] 26	15 [♉] 20	5 [♊] 8	4 [♋] 48	5 [♌] 34	4 [♍] 20	26 [♎] 15	8 [♏] 36		
F 20	20 14 18	2 [♂] 25'18	24 [♃] 33	25 [♄] 54	18 [♅] 17	14 [♆] 2	26 [♇] 1	26 [♈] 26	15 [♉] 23	5 [♊] 7	4 [♋] 47	5 [♌] 32	4 [♍] 16	26 [♎] 22	8 [♏] 35		
S 21	20 18 14	3 [♂] 22'51	8 [♃] 12	26 [♄] 6	19 [♅] 31	14 [♆] 39	26 [♇] 11	26 [♈] 25	15 [♉] 26	5 [♊] 7	4 [♋] 46	5 [♌] D32	4 [♍] 13	26 [♎] 28	8 [♏] 35		
S 22	20 22 11	4 [♂] 20'25	22 [♈] 10	26 [♉] 13	20 [♊] 44	15 [♋] 17	26 [♌] 21	26 [♍] 25	15 [♎] 29	5 [♏] 6	4 [♐] 44	5 [♑] 32	4 [♒] 10	26 [♓] 35	8 [♔] 34		
M23	20 26 7	5 [♂] 18'01	6 [♃] 27	26 [♄] R14	21 [♅] 58	15 [♆] 54	26 [♇] 31	26 [♈] 25	15 [♉] 32	5 [♊] 6	4 [♋] 43	5 [♌] R33	4 [♍] 7	26 [♎] 42	8 [♏] 33		
T 24	20 30 4	6 [♂] 15'39	21 [♈] 1	26 [♉] 10	23 [♊] 12	16 [♋] 32	26 [♌] 41	26 [♍] 24	15 [♎] 35	5 [♏] 5	4 [♐] 42	5 [♑] 32	4 [♒] 4	26 [♓] 48	8 [♔] 32		
W25	20 34 1	7 [♂] 13'18	5 [♁] 48	26 [♂] 1	24 [♃] 26	17 [♄] 9	26 [♅] 52	26 [♆] 24	15 [♇] 38	5 [♈] 4	4 [♉] 40	5 [♊] 29	4 [♋] 1	26 [♌] 55	8 [♍] 31		
T 26	20 37 57	8 [♂] 10'58	20 [♈] 43	25 [♉] 46	25 [♊] 40	17 [♋] 46	27 [♌] 2	26 [♍] D24	15 [♎] 41	5 [♏] 3	4 [♐] 39	5 [♑] 23	3 [♒] 57	27 [♓] 2	8 [♔] 30		
F 27	20 41 54	9 [♂] 8'40	5 [♁] 37	25 [♂] 25	26 [♃] 54	18 [♄] 23	27 [♅] 13	26 [♆] 24	15 [♇] 45	5 [♈] 3	4 [♉] 38	5 [♊] 15	3 [♋] 54	27 [♌] 8	8 [♍] 29		
S 28	20 45 50	10 [♂] 6'23	20 [♈] 22	24 [♉] 59	28 [♊] 7	18 [♋] 59	27 [♌] 23	26 [♍] 25	15 [♎] 48	5 [♏] 2	4 [♐] 36	5 [♑] 6	3 [♒] 51	27 [♓] 15	8 [♔] 28		
S 29	20 49 47	11 [♂] 4'08	4 [♃] 50	24 [♄] 28	29 [♅] 21	19 [♆] 36	27 [♇] 34	26 [♈] 25	15 [♉] 51	5 [♊] 1	4 [♋] 35	4 [♌] 56	3 [♍] 48	27 [♎] 22	8 [♏] 27		
M30	20 53 43	12 [♂] 1'54	18 [♈] 54	23 [♉] 51	0 [♊] 35	20 [♋] 12	27 [♌] 45	26 [♍] 25	15 [♎] 54	5 [♏] 0	4 [♐] 34	4 [♑] 46	3 [♒] 45	27 [♓] 28	8 [♔] 26		
T 31	20 57 40	12 [♂] 59'41	2 [♃] 31	23 [♄] 10	1 [♅] 49	20 [♆] 48	27 [♇] 55	26 [♈] 26	15 [♉] 58	4 [♊] 59	4 [♋] 32	4 [♌] 38	3 [♍] 41	27 [♎] 35	8 [♏] 24		

Delta T = 22m37s

Julian Calendar 1 July 1044 == Greg. Calendar 7 July 1044

AUGUST 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	21 1 36	13 [♁] 57'29	15 [♂] 40	22 [♃] R25	3 [♄] 37	21 [♅] 24	28 [♆] 6	26 [♇] 26	16 [♈] 17	4 [♉] R59	4 [♊] R31	4 [♋] R33	3 [♌] 38	27 [♍] 42	8 [♎] R23		
T 2	21 5 33	14 ⁵ 55'18	28 [♈] 25	21 [♉] 36	4 [♊] 16	21 [♋] 59	28 [♌] 17	26 [♍] 27	16 [♎] 4	4 [♏] 58	4 [♐] 30	4 [♑] 30	3 [♒] 35	27 [♓] 48	8 [♔] 22		
F 3	21 9 30	15 ⁵ 53'09	10 [♃] 47	20 [♄] 44	5 [♅] 30	22 [♆] 35	28 [♇] 28	26 [♈] 28	16 [♉] 8	4 [♊] 57	4 [♋] 28	4 [♌] 28	3 [♍] 32	27 [♎] 55	8 [♏] 20		
S 4	21 13 26	16 ⁵ 51'01	22 [♈] 54	19 [♉] 51	6 [♊] 44	23 [♋] 10	28 [♌] 39	26 [♍] 29	16 [♎] 11	4 [♏] 56	4 [♐] 27	4 [♑] D28	3 [♒] 29	28 [♓] 2	8 [♔] 19		
S 5	21 17 23	17 ⁵ 48'55	4 [♈] 48	18 [♉] 57	7 [♊] 58	23 [♋] 45	28 [♌] 51	26 [♍] 30	16 [♎] 15	4 [♏] 55	4 [♐] 26	4 [♑] R29	3 [♒] 26	28 [♓] 8	8 [♔] 17		
M 6	21 21 19	18 ⁵ 46'49	16 [♃] 37	18 [♄] 2	9 [♅] 11	24 [♆] 20	29 [♇] 2	26 [♈] 31	16 [♉] 18	4 [♊] 54	4 [♋] 24	4 [♌] 28	3 [♍] 22	28 [♎] 15	8 [♏] 16		
T 7	21 25 16	19 ⁵ 44'46	28 [♈] 25	17 [♉] 10	10 [♊] 21	24 [♋] 54	29 [♌] 13	26 [♍] 32	16 [♎] 21	4 [♏] 53	4 [♐] 23	4 [♑] 26	3 [♒] 19	28 [♓] 22	8 [♔] 14		
W 8	21 29 12	20 ⁵ 42'43	10 [♃] 17	16 [♄] 20	11 [♅] 39	25 [♆] 28	29 [♇] 25	26 [♈] 33	16 [♉] 25	4 [♊] 52	4 [♋] 22	4 [♌] 21	3 [♍] 16	28 [♎] 28	8 [♏] 13		
T 9	21 33 9	21 ⁵ 40'42	22 [♈] 16	15 [♉] 33	12 [♊] 53	26 [♋] 3	29 [♌] 36	26 [♍] 34	16 [♎] 28	4 [♏] 50	4 [♐] 21	4 [♑] 13	3 [♒] 13	28 [♓] 35	8 [♔] 11		
F 10	21 37 5	22 ⁵ 38'43	4 [♁] 24	14 [♂] 51	14 [♃] 6	26 [♄] 37	29 [♅] 48	26 [♆] 36	16 [♇] 32	4 [♈] 49	4 [♉] 19	4 [♊] 3	3 [♋] 10	28 [♌] 42	8 [♍] 9		
S 11	21 41 2	23 ⁵ 36'45	16 [♈] 45	14 [♉] 15	15 [♊] 20	27 [♋] 10	29 [♌] 59	26 [♍] 37	16 [♎] 36	4 [♏] 48	4 [♐] 18	3 [♑] 51	3 [♒] 6	28 [♓] 48	8 [♔] 8		
S 12	21 44 59	24 ⁵ 34'48	29 [♈] 18	13 [♉] 45	16 [♊] 34	27 [♋] 44	0 [♌] 11	26 [♍] 39	16 [♎] 39	4 [♏] 47	4 [♐] 17	3 [♑] 38	3 [♒] 3	28 [♓] 55	8 [♔] 6		
M13	21 48 55	25 ⁵ 32'54	12 [♃] 4	13 [♄] 23	17 [♅] 48	28 [♆] 17	0 [♇] 22	26 [♈] 41	16 [♉] 43	4 [♊] 46	4 [♋] 16	3 [♌] 25	3 [♍] 0	29 [♎] 2	8 [♏] 4		
T 14	21 52 52	26 ⁵ 31'01	25 [♈] 1	13 [♉] 8	19 [♊] 1	28 [♋] 50	0 [♌] 34	26 [♍] 43	16 [♎] 46	4 [♏] 45	4 [♐] 14	3 [♑] 14	2 [♒] 57	29 [♓] 8	8 ^{♔</}		

SWISS EPHEMERIS for the year 1044

SEPTEMBER 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	23 3 50	14 ^h 3'03	0 ^h 54'	0 ^h 35'	11 ^h 6'	7 ^h 57'	4 ^h 14'	27 ^h 31'	17 ^h 53'	4 ^h 19'	3 ^h 54'	1 ^h 31'	2 ^h 0'	1 ^h 8'	7 ^h 23'								
S 2	23 7 46	15° 1'48	12°50	2°20	12°20	8°24	4°27	27°34	17°57	4 ^h 18'	3 ^h 54'	1 ^h 32'	1°57	1°15	7 ^h 20'								
M 3	23 11 43	16° 0'35	24°40	4° 7	13°33	8°51	4°40	27°38	18° 0	4°16	3°53	1°31	1°53	1°21	7°18								
T 4	23 15 39	16°59'23	6 ^h 29'	5°55	14°46	9°18	4°52	27°42	18° 4	4°15	3°52	1°30	1°50	1°28	7°15								
W 5	23 19 36	17°58'14	18°23	7°43	16° 0	9°44	5° 5	27°45	18° 8	4°13	3°51	1°26	1°47	1°35	7°13								
T 6	23 23 32	18°57'06	0 ^h 26'	9°33	17°13	10°10	5°18	27°49	18°12	4°12	3°50	1°19	1°44	1°41	7°10								
F 7	23 27 29	19°56'00	12°42	11°22	18°27	10°35	5°31	27°53	18°16	4°10	3°49	1°10	1°41	1°48	7° 8								
S 8	23 31 26	20°54'56	25°14	13°11	19°40	11° 0	5°43	27°57	18°19	4° 8	3°48	1° 0	1°38	1°55	7° 5								
S 9	23 35 22	21°53'53	8 ^h 2'	15° 1	20°53	11°25	5°56	28° 1	18°23	4° 7	3°47	0°48	1°34	2° 1	7° 2								
M10	23 39 19	22°52'53	21° 7	16°50	22° 7	11°50	6° 9	28° 5	18°27	4° 5	3°47	0°36	1°31	2° 8	7° 0								
T 11	23 43 15	23°51'55	4 ^h 26'	18°39	23°20	12°13	6°22	28° 9	18°31	4° 3	3°46	0°25	1°28	2°15	6°57								
W12	23 47 12	24°50'59	17°59	20°27	24°33	12°37	6°35	28°14	18°34	4° 2	3°45	0°17	1°25	2°21	6°55								
T 13	23 51 8	25°50'05	1 ^h 43'	22°15	25°47	13° 0	6°48	28°18	18°38	4° 0	3°44	0°11	1°22	2°28	6°52								
F 14	23 55 5	26°49'14	15°34	24° 2	27° 0	13°23	7° 1	28°23	18°42	3°58	3°44	0° 8	1°18	2°35	6°49								
S 15	23 59 1	27°48'25	29°31	25°48	28°13	13°45	7°14	28°27	18°46	3°57	3°43	0°D 7	1°15	2°41	6°46								
S 16	0 2 58	28°47'38	13 ^h 33'	27°34	29°26	14° 6	7°27	28°32	18°49	3°55	3°42	0° 7	1°12	2°48	6°44								
M17	0 6 54	29°46'54	27°39	29°19	0 ^h 40'	14°27	7°40	28°36	18°53	3°53	3°42	0°R 8	1° 9	2°55	6°41								
T 18	0 10 51	0 ^h 46'12	11 ^h 34'	1 ^h 4	1°53	14°48	7°53	28°41	18°57	3°52	3°41	0° 7	1° 6	3° 1	6°38								
W19	0 14 48	1°45'32	25°56	2°47	3° 6	15° 8	8° 6	28°46	19° 1	3°50	3°40	0° 5	1° 3	3° 8	6°36								
T 20	0 18 44	2°44'55	10 ^h 5'	4°30	4°19	15°28	8°19	28°51	19° 4	3°48	3°40	0° 0	0°59	3°15	6°33								
F 21	0 22 41	3°44'21	24°11	6°12	5°32	15°47	8°32	28°56	19° 8	3°47	3°39	29 ^h 53'	0°56	3°21	6°30								
S 22	0 26 37	4°43'48	8 ^h 9'	7°53	6°46	16° 6	8°45	29° 1	19°12	3°45	3°39	29°44	0°53	3°28	6°27								
S 23	0 30 34	5°43'17	21°56	9°34	7°59	16°24	8°58	29° 6	19°15	3°43	3°38	29°35	0°50	3°35	6°25								
M24	0 34 30	6°42'49	5 ^h 29'	11°14	9°12	16°41	9°11	29°11	19°19	3°42	3°38	29°26	0°47	3°41	6°22								
T 25	0 38 27	7°42'23	18°44	12°53	10°25	16°58	9°24	29°16	19°23	3°40	3°37	29°18	0°43	3°48	6°19								
W26	0 42 23	8°41'59	1 ^h 40'	14°32	11°38	17°15	9°37	29°21	19°26	3°38	3°37	29°13	0°40	3°55	6°16								
T 27	0 46 20	9°41'37	14°18	16°10	12°51	17°30	9°50	29°27	19°30	3°37	3°37	29° 9	0°37	4° 1	6°14								
F 28	0 50 17	10°41'17	26°38	17°47	14° 4	17°46	10° 3	29°32	19°34	3°35	3°36	29°D 8	0°34	4° 8	6°11								
S 29	0 54 13	11°40'58	8 ^h 44'	19°23	15°17	18° 0	10°16	29°37	19°37	3°33	3°36	29° 8	0°31	4°15	6° 8								
S 30	0 58 10	12 ^h 40'42	20 ^h 39'	20 ^h 59'	16 ^h 30'	18 ^h 14'	10 ^h 29'	29 ^h 43'	19 ^h 41'	3 ^h 32'	3 ^h 36'	29 ^h 10'	0 ^h 28'	4 ^h 21'	6 ^h 5'								

Delta T = 22m36s Julian Calendar 1 Sept. 1044 == Greg. Calendar 7 Sept. 1044

OCTOBER 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
M 1	1 2 6	13 ^h 40'27	2 ^h 29'	22 ^h 35'	17 ^h 43'	18 ^h 27'	10 ^h 42'	29 ^h 48'	19 ^h 44'	3°R30	3°R35	29 ^h 11'	0 ^h 24'	4 ^h 28'	6°R 3								
T 2	1 6 3	14°40'14	14°19	24° 9	18°56	18°40	10°55	29°54	19°48	3 ^h 28'	3 ^h 35	29°R12	0°21	4°35	6°R 0								
W 3	1 9 59	15°40'03	26°13	25°44	20° 9	18°52	11° 8	0 ^h 0	19°51	3°27	3°35	29°11	0°18	4°41	5°57								
T 4	1 13 56	16°39'54	8 ^h 17'	27°17	21°22	19° 3	11°21	0° 5	19°55	3°25	3°35	29° 8	0°15	4°48	5°55								
F 5	1 17 52	17°39'46	20°36	28°50	22°34	19°14	11°35	0°11	19°58	3°24	3°34	29° 4	0°12	4°55	5°52								
S 6	1 21 49	18°39'40	3 ^h 12'	0 ^h 23'	23°47	19°24	11°48	0°17	20° 2	3°22	3°34	28°58	0° 9	5° 1	5°49								
S 7	1 25 46	19°39'35	16° 9	1°55	25° 0	19°33	12° 1	0°23	20° 5	3°20	3°34	28°52	0° 5	5° 8	5°47								
M 8	1 29 42	20°39'33	29°27	3°26	26°13	19°41	12°14	0°29	20° 9	3°19	3°34	28°45	0° 2	5°15	5°44								
T 9	1 33 39	21°39'32	13 ^h 6'	4°57	27°25	19°49	12°27	0°35	20°12	3°17	3°34	28°39	29 ^h 59'	5°21	5°41								
W10	1 37 35	22°39'34	27° 2	6°28	28°38	19°56	12°40	0°41	20°15	3°16	3°34	28°34	29°56	5°28	5°39								
T 11	1 41 32	23°39'37	11 ^h 8'	7°58	29°51	20° 2	12°53	0°47	20°19	3°14	3°D34	28°31	29°53	5°35	5°36								
F 12	1 45 28	24°39'42	25°30	9°27	1 ^h 3	20° 8	13° 6	0°53	20°22	3°12	3°34	28°D30	29°49	5°41	5°34								
S 13	1 49 25	25°39'49	9 ^h 53'	10°56	2°16	20°12	13°18	0°59	20°25	3°11	3°34	28°31	29°46	5°48	5°31								
S 14	1 53 21	26°39'59	24°15	12°25	3°28	20°16	13°31	1° 5	20°28	3° 9	3°34	28°32	29°43	5°55	5°29								
M15	1 57 18	27°40'11	8 ^h 34'	13°53	4°41	20°19	13°44	1°12	20°32	3° 8	3°34	28°33	29°40	6° 1	5°26								
T 16	2 1 15	28°40'24	22°47	15°20	5°53	20°21	13°57	1°18	20°35	3° 6	3°34	28°R34	29°37	6° 8	5°24								
W17	2 5 11	29°40'40	6 ^h 51'	16°47	7° 6	20°23	14°10	1°24	20°38	3° 5	3°34	28°34	29°34	6°15	5°21								
T 18	2 9 8	0 ^h 40'58	20°46	18°13	8°18	20°R23	14°23	1°31	20°41	3° 4	3°34	28°33	29°30	6°22	5°19								
F 19	2 13 4	1°41'18	4 ^h 31'	19°39	9°30	20°23	14°36	1°37	20°44	3° 2	3°35	28°30	29°27	6°28	5°16								
S 20	2 17 1	2°41'40	18° 4	21° 4	10°43	20°22	14°48	1°44	20°47	3° 1	3°35	28°27	29°24	6°35	5°14								
S 21	2 20 57	3°42'04	1 ^h 24'	22°28	11°55	20°20	15° 1	1°50	20°50	2°59	3°35	28°23	29°21	6°42	5°12								
M22	2 24 54	4°42'30	14°31	23°51	13° 7	20°17	15°14	1°57	20°53	2°58	3°35	28°19	29°18	6°48	5° 9								
T 23	2 28 50	5°42'57	27°24	25°14	14°20	20°13	15°27	2° 3	20°56	2°57	3°36	28°16	29°14	6°55	5° 7								
W24	2 32 47	6°43'26	10 ^h 3'	26°35	15°32	20° 9	15°39	2°10	20°59	2°55	3°36	28°13	29°11	7° 2	5° 5								
T 25	2 36 43	7°43'57	22°28	27°56	16°44	20° 3	15°52	2°16	21° 2	2°54	3°36	28°D12	29° 8	7° 8	5° 3								
F 26	2 40 40	8°44'30	4 ^h 40'	29°15	17°56	19°57	16° 5	2°23	21° 5	2°53	3°37	28°12	29° 5	7°15	5° 0								
S 27	2 44 37	9°45'04	16°42	0 ^h 33'	19° 8	19°50	16°17	2°30	21° 8	2°51	3°37	28°13	29° 2	7°22	4°58								
S 28	2 48 33	10°45'39	28°36	1°49	20°20	19°41	16°30	2°36	21°11	2°50	3°38	28°15	28°59	7°28	4°56								
M29	2 52 30	11°46'16	10 ^h 25'	3° 4	21°32	19°32	16°42	2°43	21°13	2°49	3°38	28°16	28°55	7°35	4°54								
T 30	2 56 26	12°46'54	22°14	4°17	22°44	19°23	16°55	2°50	21°16	2°48	3°39	28°18	28°52	7°42	4°52								
W31	3 0 23	13 ^h 47'34	4 ^h 8'	5 ^h 27'	23 ^h 55'	19 ^h 12'	17 ^h 7'	2 ^h 57'	21 ^h 19'	2 ^h 47'	3 ^h 39'	28 ^h 18'	28 ^h 49'	7 ^h 48'	4 ^h 50'								

Delta T = 22m36s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1044

NOVEMBER 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	3 4 19	14M48'14	16♁10	6♁35	25♁ 7	19°R 0	17♁19	3♁ 3	21M21	2°R45	3♁40	28°R19	28M46	7♁55	4°R48
F 2	3 8 16	15°48'56	28°26	7°40	26°19	18II48	17°32	3°10	21°24	2Y44	3°40	28M18	28°43	8° 2	4Y46
S 3	3 12 12	16°49'39	11X 0	8°42	27°30	18°35	17°44	3°17	21°26	2°43	3°41	28°17	28°40	8° 8	4°44
S 4	3 16 9	17°50'23	23°56	9°41	28°42	18°21	17°56	3°24	21°29	2°42	3°42	28°16	28°36	8°15	4°42
M 5	3 20 6	18°51'08	7Y16	10°35	29°54	18° 6	18° 8	3°31	21°31	2°41	3°42	28°15	28°33	8°22	4°41
T 6	3 24 2	19°51'54	21° 2	11°24	1♁ 5	17°50	18°20	3°38	21°34	2°40	3°43	28°14	28°30	8°28	4°39
W 7	3 27 59	20°52'41	5♁11	12° 8	2°16	17°34	18°32	3°45	21°36	2°39	3°44	28°13	28°27	8°35	4°37
T 8	3 31 55	21°53'30	19°40	12°46	3°27	17°17	18°44	3°52	21°39	2°38	3°44	28°12	28°24	8°42	4°35
F 9	3 35 52	22°54'19	4II24	13°18	4°39	16°59	18°56	3°59	21°41	2°37	3°45	28°D12	28°20	8°48	4°34
S 10	3 39 48	23°55'11	19°15	13°41	5°50	16°41	19° 8	4° 6	21°43	2°36	3°46	28°13	28°17	8°55	4°32
S 11	3 43 45	24°56'03	4♁ 5	13°56	7° 1	16°22	19°20	4°13	21°45	2°35	3°47	28°13	28°14	9° 2	4°31
M12	3 47 42	25°56'57	18°48	14°R 2	8°12	16° 2	19°32	4°20	21°47	2°34	3°48	28°13	28°11	9° 8	4°29
T 13	3 51 38	26°57'52	3♁18	13°58	9°23	15°42	19°43	4°27	21°50	2°34	3°48	28°13	28° 8	9°15	4°28
W14	3 55 35	27°58'48	17°31	13°43	10°33	15°21	19°55	4°34	21°52	2°33	3°49	28°13	28° 5	9°22	4°26
T 15	3 59 31	28°59'46	1M26	13°17	11°44	15° 0	20° 7	4°41	21°54	2°32	3°50	28°13	28° 1	9°28	4°25
F 16	4 3 28	0♁ 0'45	15° 1	12°40	12°55	14°38	20°18	4°48	21°56	2°31	3°51	28°14	27°58	9°35	4°24
S 17	4 7 24	1° 1'45	28°18	11°52	14° 5	14°16	20°29	4°55	21°57	2°31	3°52	28°14	27°55	9°42	4°23
S 18	4 11 21	2° 2'47	11♁18	10°53	15°15	13°54	20°41	5° 2	21°59	2°30	3°53	28°14	27°52	9°48	4°21
M19	4 15 17	3° 3'50	24° 3	9°46	16°26	13°31	20°52	5° 9	22° 1	2°29	3°54	28°15	27°49	9°55	4°20
T 20	4 19 14	4° 4'53	6M34	8°30	17°36	13° 8	21° 3	5°16	22° 3	2°29	3°55	28°15	27°46	10° 2	4°19
W21	4 23 10	5° 5'58	18°55	7°10	18°46	12°44	21°14	5°23	22° 5	2°28	3°56	28°15	27°42	10° 9	4°18
T 22	4 27 7	6° 7'04	1♁ 5	5°47	19°56	12°21	21°26	5°30	22° 6	2°27	3°57	28°R16	27°39	10°15	4°17
F 23	4 31 4	7° 8'10	13° 8	4°25	21° 6	11°57	21°36	5°37	22° 8	2°27	3°58	28°15	27°36	10°22	4°16
S 24	4 35 0	8° 9'17	25° 4	3° 5	22°16	11°34	21°47	5°44	22° 9	2°26	3°59	28°14	27°33	10°29	4°15
S 25	4 38 57	9°10'25	6♁55	1°52	23°25	11°10	21°58	5°51	22°11	2°26	4° 1	28°13	27°30	10°35	4°15
M26	4 42 53	10°11'33	18°44	0°46	24°35	10°46	22° 9	5°59	22°12	2°26	4° 2	28°11	27°26	10°42	4°14
T 27	4 46 50	11°12'42	0♁33	29M49	25°44	10°23	22°20	6° 6	22°14	2°25	4° 3	28° 9	27°23	10°49	4°13
W28	4 50 46	12°13'51	12°27	29° 3	26°53	9°59	22°30	6°13	22°15	2°25	4° 4	28° 7	27°20	10°55	4°12
T 29	4 54 43	13°15'00	24°27	28°27	28° 2	9°36	22°41	6°20	22°17	2°25	4° 5	28° 6	27°17	11° 2	4°12
F 30	4 58 40	14♁16'10	6X40	28M. 3	29♁11	9II13	22♁51	6♁27	22M18	2Y24	4♁ 7	28M. 5	27M.14	11♁ 9	4Y11

Delta T = 22m35s

Julian Calendar 1 Nov. 1044 == Greg. Calendar 7 Nov. 1044

DECEMBER 1044 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	5 2 36	15♁17'20	19X 8	27°R49	0♁20	8°R50	23♁ 1	6♁34	22M19	2°R24	4♁ 8	28M. 5	27M.11	11♁15	4°R11
S 2	5 6 33	16°18'29	1Y56	27°D45	1°29	8II28	23°11	6°41	22°20	2Y24	4° 9	28° 5	27° 7	11°22	4Y10
M 3	5 10 29	17°19'39	15° 9	27M.52	2°37	8° 6	23°22	6°48	22°21	2°24	4°11	28° 6	27° 4	11°29	4°10
T 4	5 14 26	18°20'49	28°48	28° 6	3°45	7°44	23°32	6°55	22°22	2°24	4°12	28° 8	27° 1	11°35	4°10
W 5	5 18 22	19°21'59	12♁56	28°29	4°53	7°23	23°41	7° 2	22°23	2°23	4°13	28° 9	26°58	11°42	4° 9
T 6	5 22 19	20°23'10	27°29	29° 0	6° 1	7° 3	23°51	7° 9	22°24	2°23	4°15	28°R10	26°55	11°49	4° 9
F 7	5 26 15	21°24'20	12II23	29°36	7° 9	6°42	24° 1	7°16	22°25	2°23	4°16	28° 9	26°52	11°55	4° 9
S 8	5 30 12	22°25'31	27°32	0♁19	8°16	6°23	24°11	7°22	22°26	2°D23	4°17	28° 7	26°48	12° 2	4° 9
S 9	5 34 9	23°26'42	12♁45	1° 7	9°24	6° 4	24°20	7°29	22°26	2°23	4°19	28° 5	26°45	12° 9	4°D 9
M10	5 38 5	24°27'53	27°53	1°59	10°31	5°46	24°29	7°36	22°27	2°23	4°20	28° 1	26°42	12°16	4° 9
T 11	5 42 2	25°29'04	12♁46	2°56	11°37	5°28	24°39	7°43	22°28	2°24	4°22	27°57	26°39	12°22	4° 9
W12	5 45 58	26°30'15	27°17	3°56	12°44	5°11	24°48	7°50	22°28	2°24	4°23	27°53	26°36	12°29	4° 9
T 13	5 49 55	27°31'27	11M23	4°59	13°50	4°55	24°57	7°57	22°29	2°24	4°25	27°51	26°32	12°36	4° 9
F 14	5 53 51	28°32'39	25° 2	6° 5	14°57	4°39	25° 6	8° 4	22°29	2°24	4°26	27°D50	26°29	12°42	4° 9
S 15	5 57 48	29°33'51	8♁16	7°14	16° 3	4°24	25°15	8°10	22°30	2°24	4°28	27°50	26°26	12°49	4°10
S 16	6 1 44	0♁35'03	21° 7	8°25	17° 8	4°10	25°23	8°17	22°30	2°25	4°29	27°51	26°23	12°56	4°10
M17	6 5 41	1°36'16	3M39	9°38	18°14	3°57	25°32	8°24	22°30	2°25	4°31	27°53	26°20	13° 2	4°10
T 18	6 9 38	2°37'28	15°57	10°53	19°19	3°44	25°40	8°30	22°31	2°25	4°32	27°55	26°17	13° 9	4°11
W19	6 13 34	3°38'41	28° 3	12°10	20°24	3°32	25°49	8°37	22°31	2°26	4°34	27°R56	26°13	13°16	4°11
T 20	6 17 31	4°39'53	10♁ 2	13°28	21°28	3°21	25°57	8°44	22°31	2°26	4°35	27°55	26°10	13°22	4°12
F 21	6 21 27	5°41'05	21°56	14°47	22°33	3°11	26° 5	8°50	22°31	2°26	4°37	27°52	26° 7	13°29	4°12
S 22	6 25 24	6°42'17	3♁46	16° 8	23°37	3° 2	26°13	8°57	22°R31	2°27	4°39	27°47	26° 4	13°36	4°13
S 23	6 29 20	7°43'29	15°36	17°29	24°40	2°53	26°21	9° 3	22°31	2°27	4°40	27°40	26° 1	13°42	4°14
M24	6 33 17	8°44'40	27°27	18°52	25°44	2°45	26°28	9°10	22°31	2°28	4°42	27°33	25°58	13°49	4°15
T 25	6 37 13	9°45'50	9♁20	20°15	26°47	2°38	26°36	9°16	22°31	2°29	4°44	27°24	25°54	13°56	4°15
W26	6 41 10	10°47'00	21°17	21°40	27°49	2°32	26°43	9°23	22°31	2°29	4°45	27°16	25°51	14° 3	4°16
T 27	6 45 7	11°48'09	3X21	23° 5	28°52	2°27	26°51	9°29	22°30	2°30	4°47	27° 8	25°48	14° 9	4°17
F 28	6 49 3	12°49'17	15°34	24°31	29°53	2°23	26°58	9°35	22°30	2°31	4°49	27° 3	25°45	14°16	4°18
S 29	6 53 0	13°50'25	28° 0	25°58	0X55	2°19	27° 5	9°42	22°30	2°31	4°50	26°59	25°42	14°23	4°19
S 30	6 56 56	14°51'31	10Y43	27°26	1°56	2°16	27°12	9°48	22°29	2°32	4°52	26°D57	25°38	14°29	4°20
M31	7 0 53	15♁52'37	23Y46	28♁54	2X57	2II14	27♁18	9♁54	22M29	2Y33	4♁54	26M.58	25M.35	14♁36	4Y22

Delta T = 22m35s

Julian Calendar

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