

SWISS EPHEMERIS for the year 1116

JANUARY 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	7 4 2	16°38'48	29°26	22°41	16°22	27°47	23°32	24°12	20°R10	13°R25	25°R25	1°R25	2°19	23°54	28°26
S 2	7 7 59	17°39'52	17°39	23°27	17°36	28°33	23°38	24°13	20°5 7	13°R25	25°R25	1°R24	2°16	24° 1	28°27
M 3	7 11 55	18°40'55	2°53	24°18	18°51	29°19	23°44	24°15	20° 5	13°24	25°D25	1°D23	2°12	24° 8	28°27
T 4	7 15 52	19°41'57	17°59	25°12	20° 5	0°H 6	23°49	24°17	20° 2	13°23	25°25	1°24	2° 9	24°14	28°28
W 5	7 19 48	20°42'58	2°48	26°10	21°19	0°52	23°55	24°18	19°59	13°22	25°25	1°25	2° 6	24°21	28°28
T 6	7 23 45	21°43'59	17°14	27°11	22°34	1°38	24° 0	24°20	19°57	13°21	25°25	1°25	2° 3	24°28	28°R28
F 7	7 27 41	22°44'59	1°15	28°14	23°48	2°24	24° 5	24°22	19°54	13°20	25°25	1°26	2° 0	24°34	28°28
S 8	7 31 38	23°45'59	14°49	29°20	25° 2	3°11	24°10	24°24	19°52	13°20	25°25	1°27	1°56	24°41	28°28
S 9	7 35 34	24°46'58	27°58	0°Z28	26°17	3°57	24°14	24°26	19°49	13°19	25°25	1°R27	1°53	24°48	28°28
M10	7 39 31	25°47'56	10°45	1°38	27°31	4°43	24°19	24°28	19°46	13°18	25°25	1°27	1°50	24°54	28°27
T 11	7 43 28	26°48'54	23°14	2°50	28°45	5°29	24°23	24°30	19°44	13°17	25°26	1°26	1°47	25° 1	28°27
W12	7 47 24	27°49'50	5°27	4° 4	0°Z 0	6°15	24°27	24°33	19°41	13°16	25°26	1°26	1°44	25° 8	28°26
T 13	7 51 21	28°50'46	17°30	5°19	1°14	7° 1	24°31	24°35	19°39	13°15	25°26	1°25	1°41	25°14	28°25
F 14	7 55 17	29°51'41	29°24	6°36	2°29	7°48	24°35	24°38	19°36	13°13	25°26	1°25	1°37	25°21	28°24
S 15	7 59 14	0°52'35	11°Z14	7°55	3°43	8°34	24°39	24°41	19°34	13°12	25°27	1°25	1°34	25°27	28°24
S 16	8 3 10	1°53'28	23° 1	9°14	4°57	9°20	24°42	24°44	19°31	13°11	25°27	1°D25	1°31	25°34	28°22
M17	8 7 7	2°54'19	4°49	10°35	6°12	10° 6	24°45	24°47	19°28	13°10	25°27	1°R25	1°28	25°41	28°21
T 18	8 11 3	3°55'10	16°38	11°57	7°26	10°52	24°48	24°50	19°26	13° 9	25°27	1°25	1°25	25°47	28°20
W19	8 15 0	4°55'59	28°31	13°20	8°41	11°38	24°51	24°53	19°23	13° 8	25°28	1°24	1°22	25°54	28°18
T 20	8 18 57	5°56'46	10°H31	14°45	9°55	12°23	24°54	24°56	19°21	13° 6	25°28	1°24	1°18	26° 1	28°17
F 21	8 22 53	6°57'32	22°40	16°10	11°10	13° 9	24°57	24°59	19°18	13° 5	25°28	1°23	1°15	26° 7	28°15
S 22	8 26 50	7°58'16	5°Y 1	17°36	12°24	13°55	24°59	25° 3	19°16	13° 4	25°29	1°22	1°12	26°14	28°14
S 23	8 30 46	8°58'59	17°36	19° 4	13°38	14°41	25° 1	25° 6	19°14	13° 3	25°29	1°22	1° 9	26°21	28°12
M24	8 34 43	9°59'40	0°B29	20°32	14°53	15°27	25° 3	25°10	19°11	13° 1	25°30	1°21	1° 6	26°27	28°10
T 25	8 38 39	11° 0'19	13°43	22° 1	16° 7	16°13	25° 5	25°14	19° 9	13° 0	25°30	1°D21	1° 2	26°34	28° 8
W26	8 42 36	12° 0'57	27°20	23°31	17°22	16°58	25° 6	25°18	19° 6	12°59	25°31	1°21	0°59	26°41	28° 5
T 27	8 46 32	13° 1'33	11°II21	25° 2	18°36	17°44	25° 8	25°22	19° 4	12°57	25°31	1°22	0°56	26°47	28° 3
F 28	8 50 29	14° 2'07	25°47	26°34	19°51	18°30	25° 9	25°26	19° 2	12°56	25°32	1°23	0°53	26°54	28° 1
S 29	8 54 26	15° 2'39	10°S33	28° 7	21° 5	19°15	25°10	25°30	19° 0	12°54	25°32	1°24	0°50	27° 1	27°58
S 30	8 58 22	16° 3'10	25°35	29°41	22°20	20° 1	25°11	25°34	18°57	12°53	25°33	1°R25	0°47	27° 7	27°56
M31	9 2 19	17° 3'39	10°L44	1°16	23°Z34	20°H46	25°12	25°Y38	18°S55	12°M52	25°Y33	1°M25	0°43	27°Z14	27°M53

Delta T = 16m59s Julian Calendar 1 Jan. 1116 == Greg. Calendar 8 Jan. 1116

FEBRUARY 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	9 6 15	18° 4'05	25°Ω53	2°51	24°Z48	21°H32	25°Ω12	25°Y43	18°R53	12°R50	25°Y34	1°R24	0°40	27°Z20	27°R50
W 2	9 10 12	19° 4'31	10°M50	4°28	26° 3	22°17	25°13	25°47	18°S51	12°M49	25°35	1°M22	0°37	27°27	27°M47
T 3	9 14 8	20° 4'54	25°28	6° 5	27°17	23° 3	25°R13	25°52	18°49	12°47	25°35	1°19	0°34	27°34	27°44
F 4	9 18 5	21° 5'17	9°Ω42	7°44	28°32	23°48	25°13	25°56	18°46	12°46	25°36	1°17	0°31	27°40	27°41
S 5	9 22 1	22° 5'37	23°28	9°23	29°46	24°33	25°12	26° 1	18°44	12°44	25°37	1°14	0°28	27°47	27°38
S 6	9 25 58	23° 5'56	6°M46	11° 4	1°1 1	25°18	25°12	26° 6	18°42	12°43	25°37	1°12	0°24	27°54	27°35
M 7	9 29 55	24° 6'14	19°38	12°45	2°15	26° 4	25°11	26°11	18°40	12°41	25°38	1°D11	0°21	28° 0	27°32
T 8	9 33 51	25° 6'31	2°H 8	14°27	3°30	26°49	25°11	26°16	18°38	12°39	25°39	1°12	0°18	28° 7	27°28
W 9	9 37 48	26° 6'45	14°20	16°11	4°44	27°34	25°10	26°21	18°36	12°38	25°40	1°13	0°15	28°14	27°25
T 10	9 41 44	27° 6'59	26°19	17°55	5°58	28°19	25° 8	26°26	18°35	12°36	25°40	1°14	0°12	28°20	27°21
F 11	9 45 41	28° 7'10	8°Z 9	19°41	7°13	29° 4	25° 7	26°31	18°33	12°35	25°41	1°16	0° 8	28°27	27°18
S 12	9 49 37	29° 7'20	19°55	21°27	8°27	29°49	25° 5	26°36	18°31	12°33	25°42	1°18	0° 5	28°34	27°14
S 13	9 53 34	0°H 7'29	1°M42	23°15	9°42	0°Y34	25° 4	26°42	18°29	12°32	25°43	1°R18	0° 2	28°40	27°10
M14	9 57 30	1° 7'35	13°31	25° 4	10°56	1°19	25° 2	26°47	18°27	12°30	25°44	1°17	29°Z59	28°47	27° 6
T 15	10 1 27	2° 7'40	25°26	26°53	12°11	2° 4	25° 0	26°53	18°26	12°28	25°44	1°15	29°56	28°53	27° 2
W16	10 5 24	3° 7'42	7°H29	28°44	13°25	2°49	24°57	26°58	18°24	12°27	25°45	1°11	29°53	29° 0	26°58
T 17	10 9 20	4° 7'43	19°42	0°H36	14°39	3°34	24°55	27° 4	18°22	12°25	25°46	1° 6	29°49	29° 7	26°54
F 18	10 13 17	5° 7'42	2°Y 5	2°29	15°54	4°19	24°52	27°10	18°21	12°23	25°47	1° 0	29°46	29°13	26°50
S 19	10 17 13	6° 7'38	14°39	4°23	17° 8	5° 3	24°49	27°15	18°19	12°22	25°48	0°54	29°43	29°20	26°46
S 20	10 21 10	7° 7'33	27°27	6°18	18°23	5°48	24°46	27°21	18°18	12°20	25°49	0°48	29°40	29°27	26°42
M21	10 25 6	8° 7'25	10°B28	8°14	19°37	6°33	24°43	27°27	18°16	12°18	25°50	0°43	29°37	29°33	26°38
T 22	10 29 3	9° 7'15	23°45	10°11	20°51	7°17	24°39	27°33	18°15	12°17	25°51	0°40	29°33	29°40	26°33
W23	10 32 59	10° 7'03	7°II18	12° 8	22° 6	8° 2	24°36	27°39	18°14	12°15	25°52	0°D39	29°30	29°47	26°29
T 24	10 36 56	11° 6'48	21° 8	14° 7	23°20	8°46	24°32	27°45	18°12	12°13	25°53	0°40	29°27	29°53	26°24
F 25	10 40 53	12° 6'31	5°S16	16° 6	24°35	9°31	24°28	27°51	18°11	12°12	25°54	0°41	29°24	0° 0	26°20
S 26	10 44 49	13° 6'12	19°41	18° 5	25°49	10°15	24°24	27°58	18°10	12°10	25°55	0°42	29°21	0° 7	26°15
S 27	10 48 46	14° 5'51	4°Ω21	20° 5	27° 3	11° 0	24°20	28° 4	18° 9	12° 8	25°56	0°R42	29°18	0°13	26°11
M28	10 52 42	15° 5'27	19°10	22° 5	28°18	11°44	24°16	28°10	18° 8	12° 7	25°57	0°41	29°14	0°20	26° 6
T 29	10 56 39	16°H 5'01	4°M 2	24°H 5	29°M32	12°Y28	24°Ω11	28°Y17	18°S 7	12°M 5	25°Y58	0°M38	29°Z11	0°M27	26°M 2

Delta T = 16m58s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 1116

MARCH 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
W 1	11 0 35	17°43'33"	18°49'49"	26°4'4"	0°46'	13°12'	24°R 6	28°V23	18°R 6	12°R 3	25°V59	0°R32	29°Z 8	0°33'	25°R57
T 2	11 4 32	18°4'02"	3°24'	28°2'	2°0'	13°57'	24°1'	28°30'	18°5'	12°2'	26°0'	0°25'	29°5'	0°40'	25°M53
F 3	11 8 28	19°3'30"	17°39'	0°V 0	3°15'	14°41'	23°56'	28°36'	18°4'	12°0'	26°2'	0°17'	29°2'	0°46'	25°48
S 4	11 12 25	20°2'56"	18°29'	1°56'	4°29'	15°25'	23°51'	28°43'	18°3'	11°58'	26°3'	0°9'	28°59'	0°53'	25°43
S 5	11 16 21	21°2'20"	14°53'	3°50'	5°43'	16°9'	23°46'	28°50'	18°2'	11°57'	26°4'	0°2'	28°55'	1°0'	25°39
M 6	11 20 18	22°1'42"	27°50'	5°42'	6°58'	16°53'	23°41'	28°56'	18°1'	11°55'	26°5'	29°Z57	28°52'	1°6'	25°34
T 7	11 24 15	23°1'02"	10°24'	7°32'	8°12'	17°37'	23°35'	29°3'	18°1'	11°54'	26°6'	29°54'	28°49'	1°13'	25°29
W 8	11 28 11	24°0'21"	22°38'	9°18'	9°26'	18°21'	23°29'	29°10'	18°0'	11°52'	26°7'	29°D54	28°46'	1°20'	25°24
T 9	11 32 8	24°59'37"	4°38'	11°1'	10°40'	19°5'	23°23'	29°17'	18°0'	11°50'	26°9'	29°54'	28°43'	1°26'	25°20
F 10	11 36 4	25°58'52"	16°29'	12°40'	11°55'	19°48'	23°17'	29°24'	17°59'	11°49'	26°10'	29°55'	28°39'	1°33'	25°15
S 11	11 40 1	26°58'05"	28°15'	14°15'	13°9'	20°32'	23°11'	29°31'	17°59'	11°47'	26°11'	29°R56	28°36'	1°40'	25°10
S 12	11 43 57	27°57'16"	10°3'	15°45'	14°23'	21°16'	23°5'	29°38'	17°58'	11°46'	26°12'	29°55'	28°33'	1°46'	25°5
M13	11 47 54	28°56'26"	21°56'	17°11'	15°37'	21°59'	22°59'	29°45'	17°58'	11°44'	26°13'	29°52'	28°30'	1°53'	25°1
T 14	11 51 50	29°55'33"	3°58'	18°31'	16°52'	22°43'	22°52'	29°52'	17°57'	11°42'	26°15'	29°47'	28°27'	2°0'	24°56
W15	11 55 47	0°V54'38"	16°12'	19°45'	18°6'	23°27'	22°46'	29°59'	17°57'	11°41'	26°16'	29°40'	28°24'	2°6'	24°51
T 16	11 59 44	1°53'41"	28°39'	20°54'	19°20'	24°10'	22°39'	0°8'	17°57'	11°39'	26°17'	29°30'	28°20'	2°13'	24°47
F 17	12 3 40	2°52'43"	11°V20'	21°57'	20°34'	24°54'	22°32'	0°13'	17°57'	11°38'	26°18'	29°19'	28°17'	2°19'	24°42
S 18	12 7 37	3°51'42"	24°15'	22°53'	21°48'	25°37'	22°25'	0°20'	17°57'	11°36'	26°20'	29°7'	28°14'	2°26'	24°37
S 19	12 11 33	4°50'39"	7°Z23'	23°44'	23°3'	26°20'	22°18'	0°28'	17°57'	11°35'	26°21'	28°57'	28°11'	2°33'	24°33
M20	12 15 30	5°49'33"	20°43'	24°28'	24°17'	27°4'	22°11'	0°35'	17°D57	11°33'	26°22'	28°48'	28°8'	2°39'	24°28
T 21	12 19 26	6°48'26"	4°II13'	25°5'	25°31'	27°47'	22°4'	0°42'	17°57'	11°32'	26°24'	28°41'	28°5'	2°46'	24°24
W22	12 23 23	7°47'16"	17°54'	25°36'	26°45'	28°30'	21°57'	0°50'	17°57'	11°30'	26°25'	28°37'	28°1'	2°53'	24°19
T 23	12 27 19	8°46'05"	1°E45'	26°0'	27°59'	29°13'	21°50'	0°57'	17°57'	11°29'	26°26'	28°36'	27°58'	2°59'	24°15
F 24	12 31 16	9°44'50"	15°46'	26°18'	29°13'	29°57'	21°43'	1°4'	17°57'	11°27'	26°28'	28°D36	27°55'	3°6'	24°10
S 25	12 35 13	10°43'34"	29°56'	26°29'	0°V27'	0°E40'	21°35'	1°12'	17°57'	11°26'	26°29'	28°R36	27°52'	3°13'	24°6
S 26	12 39 9	11°42'15"	14°Ω15'	26°R34	1°41'	1°23'	21°28'	1°19'	17°58'	11°25'	26°30'	28°35'	27°49'	3°19'	24°1
M27	12 43 6	12°40'53"	20°43'	26°32'	2°56'	2°6'	21°20'	1°27'	17°58'	11°23'	26°31'	28°32'	27°45'	3°26'	23°57
T 28	12 47 2	13°39'30"	13°M 6	26°25'	4°10'	2°49'	21°13'	1°34'	17°58'	11°22'	26°33'	28°27'	27°42'	3°33'	23°53
W29	12 50 59	14°38'04"	27°30'	26°12'	5°24'	3°31'	21°5'	1°42'	17°59'	11°21'	26°34'	28°18'	27°39'	3°39'	23°48
T 30	12 54 55	15°36'36"	11°E46'	25°53'	6°38'	4°14'	20°58'	1°49'	18°0'	11°19'	26°35'	28°8'	27°36'	3°46'	23°44
F 31	12 58 52	16°V35'06"	25°E46'	25°V30'	7°V52'	4°E57'	20°E50'	1°E57'	18°E 0	11°M18	26°V37'	27°Z56'	27°Z33'	3°E52'	23°M40

Delta T = 16m58s Julian Calendar 1 March 1116 == Greg. Calendar 8 March 1116

APRIL 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	13 2 48	17°V33'34"	9°M28'	25°R 2	9°V 6	5°E40'	20°R42	2°E 5	18°E 1	11°R17	26°V38	27°R44	27°Z30	3°E59'	23°R36
S 2	13 6 45	18°32'01"	22°47'	24°V31'	10°20'	6°23'	20°E35'	2°12'	18°1'	11°M15	26°40'	27°Z34	27°26'	4°6'	23°M32
M 3	13 10 42	19°30'26"	5°E44'	23°56'	11°34'	7°5'	20°27'	2°20'	18°2'	11°14'	26°41'	27°25'	27°23'	4°12'	23°28
T 4	13 14 38	20°28'49"	18°18'	23°19'	12°48'	7°48'	20°20'	2°27'	18°3'	11°13'	26°42'	27°19'	27°20'	4°19'	23°24
W 5	13 18 35	21°27'11"	0°Z34'	22°40'	14°2'	8°30'	20°12'	2°35'	18°4'	11°12'	26°44'	27°16'	27°17'	4°26'	23°21
T 6	13 22 31	22°25'31"	12°35'	21°59'	15°16'	9°13'	20°4'	2°43'	18°5'	11°11'	26°45'	27°15'	27°14'	4°32'	23°17
F 7	13 26 28	23°23'49"	24°27'	21°19'	16°30'	9°55'	19°57'	2°51'	18°6'	11°9'	26°46'	27°14'	27°10'	4°39'	23°13
S 8	13 30 24	24°22'06"	6°E15'	20°39'	17°44'	10°38'	19°49'	2°58'	18°7'	11°8'	26°48'	27°14'	27°7'	4°46'	23°10
S 9	13 34 21	25°20'21"	18°5'	20°0'	18°58'	11°20'	19°41'	3°6'	18°8'	11°7'	26°49'	27°13'	27°4'	4°52'	23°6
M10	13 38 17	26°18'34"	0°E 1	19°23'	20°12'	12°2'	19°34'	3°14'	18°9'	11°6'	26°50'	27°10'	27°1'	4°59'	23°3
T 11	13 42 14	27°16'46"	12°9'	18°48'	21°26'	12°45'	19°26'	3°21'	18°10'	11°5'	26°52'	27°4'	26°58'	5°6'	22°59
W12	13 46 11	28°14'57"	24°32'	18°16'	22°40'	13°27'	19°19'	3°29'	18°11'	11°4'	26°53'	26°56'	26°55'	5°12'	22°56
T 13	13 50 7	29°13'05"	7°V11'	17°48'	23°54'	14°9'	19°11'	3°37'	18°13'	11°3'	26°55'	26°45'	26°51'	5°19'	22°53
F 14	13 54 4	0°E11'12"	20°10'	17°23'	25°7'	14°51'	19°4'	3°45'	18°14'	11°2'	26°56'	26°33'	26°48'	5°26'	22°50
S 15	13 58 0	1°9'18"	3°E25'	17°2'	26°21'	15°33'	18°56'	3°52'	18°15'	11°1'	26°57'	26°20'	26°45'	5°32'	22°47
S 16	14 1 57	2°7'22"	16°56'	16°46'	27°35'	16°15'	18°49'	4°0'	18°17'	11°0'	26°59'	26°8'	26°42'	5°39'	22°44
M17	14 5 53	3°5'24"	0°II40'	16°34'	28°49'	16°57'	18°42'	4°8'	18°18'	10°59'	27°0'	25°58'	26°39'	5°45'	22°41
T 18	14 9 50	4°3'24"	14°34'	16°27'	0°E 3	17°39'	18°34'	4°16'	18°20'	10°59'	27°1'	25°51'	26°36'	5°52'	22°38
W19	14 13 46	5°1'23"	28°34'	16°D24	1°17'	18°21'	18°27'	4°24'	18°21'	10°58'	27°3'	25°46'	26°32'	5°59'	22°35
T 20	14 17 43	5°59'20"	12°E38'	16°26'	2°31'	19°3'	18°20'	4°31'	18°23'	10°57'	27°4'	25°44'	26°29'	6°5'	22°33
F 21	14 21 40	6°57'14"	26°44'	16°33'	3°45'	19°45'	18°13'	4°39'	18°24'	10°56'	27°6'	25°D44	26°26'	6°12'	22°30
S 22	14 25 36	7°55'07"	10°Ω51'	16°45'	4°59'	20°27'	18°6'	4°47'	18°26'	10°55'	27°7'	25°R44	26°23'	6°19'	22°28
S 23	14 29 33	8°52'58"	24°58'	17°1'	6°12'	21°8'	18°0'	4°55'	18°28'	10°55'	27°8'	25°43'	26°20'	6°25'	22°26
M24	14 33 29	9°50'47"	9°M 4	17°21'	7°26'	21°50'	17°53'	5°2'	18°30'	10°54'	27°10'	25°40'	26°16'	6°32'	22°24
T 25	14 37 26	10°48'35"	23°8'	17°46'	8°40'	22°32'	17°46'	5°10'	18°32'	10°53'	27°11'	25°35'	26°13'	6°39'	22°21
W26	14 41 22	11°46'20"	7°E 6	18°15'	9°54'	23°13'	17°40'	5°18'	18°33'	10°53'	27°12'	25°27'	26°10'	6°45'	22°19
T 27	14 45 19	12°44'04"	20°55'	18°48'	11°8'	23°55'	17°33'	5°26'	18°35'	10°52'	27°14'	25°17'	26°7'	6°52'	22°18
F 28	14 49 15	13°41'47"	4°M32'	19°25'	12°21'	24°36'	17°27'	5°33'	18°37'	10°51'	27°15'	25°6'	26°4'	6°59'	22°16
S 29	14 53 12	14°39'28"	17°54'	20°5'	13°35'	25°18'	17°21'	5°41'	18°39'	10°51'	27°16'	24°54'	26°1'	7°5'	22°14
S 30	14 57 9	15°E37'08"	0°E59'	20°V50'	14°E49'	25°E59'	17°E15'	5°E49'	18°E41'	10°M50	27°V18	24°Z44	25°Z57	7°E12	22°M13

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SWISS EPHEMERIS for the year 1116

MAY 1116 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	15 1 5	168°34'46	138°46	21°38	168° 3	268°40	17°R 9	58°57	188°44	10°R50	27°V19	24°R36	258°54	78°19	22°R11	
T 2	15 5 2	17°32'24	26°14	22°30	17°17	27°22	17° 3	6° 4	18°46	10°M49	27°20	248°30	25°51	7°25	22°M10	
W 3	15 8 58	18°30'00	88°27	23°25	18°30	28° 3	16°58	6°12	18°48	10°49	27°21	24°27	25°48	7°32	22° 9	
T 4	15 12 55	19°27'35	20°27	24°23	19°44	28°44	16°52	6°20	18°50	10°49	27°23	24°D25	25°45	7°38	22° 7	
F 5	15 16 51	20°25'09	28°19	25°25	20°58	29°25	16°47	6°27	18°52	10°48	27°24	24°25	25°42	7°45	22° 6	
S 6	15 20 48	21°22'42	14° 8	26°30	22°12	0°II 6	16°41	6°35	18°55	10°48	27°25	24°26	25°38	7°52	22° 5	
S 7	15 24 44	22°20'15	25°58	27°37	23°25	0°48	16°36	6°42	18°57	10°48	27°27	24°R26	25°35	7°58	22° 5	
M 8	15 28 41	23°17'46	78°56	28°48	24°39	1°29	16°31	6°50	18°59	10°47	27°28	24°25	25°32	8° 5	22° 4	
T 9	15 32 38	24°15'16	20° 7	08° 1	25°53	2°10	16°27	6°57	19° 2	10°47	27°29	24°22	25°29	8°12	22° 3	
W10	15 36 34	25°12'46	2°34	1°18	27° 7	2°51	16°22	7° 5	19° 4	10°47	27°30	24°17	25°26	8°18	22° 3	
T11	15 40 31	26°10'14	15°21	2°37	28°20	3°32	16°17	7°13	19° 7	10°47	27°31	24° 9	25°22	8°25	22° 3	
F12	15 44 27	27° 7'42	28°30	3°59	29°34	4°12	16°13	7°20	19° 9	10°47	27°33	24° 0	25°19	8°32	22° 2	
S13	15 48 24	28° 5'09	128° 1	5°23	0°II48	4°53	16° 9	7°28	19°12	10°47	27°34	23°51	25°16	8°38	22° 2	
S14	15 52 20	29° 2'35	25°52	6°51	2° 2	5°34	16° 5	7°35	19°15	10°46	27°35	23°42	25°13	8°45	22°D 2	
M15	15 56 17	0°II 0'00	10°II 0	8°21	3°15	6°15	16° 1	7°42	19°17	10°46	27°36	23°35	25°10	8°52	22° 2	
T16	16 0 13	0°57'25	24°18	9°53	4°29	6°56	15°57	7°50	19°20	10°D46	27°38	23°29	25° 7	8°58	22° 2	
W17	16 4 10	1°54'48	88°43	11°28	5°43	7°36	15°54	7°57	19°23	10°46	27°39	23°26	25° 3	9° 5	22° 3	
T18	16 8 7	2°52'10	23° 9	13° 6	6°56	8°17	15°50	8° 4	19°26	10°47	27°40	23°D26	25° 0	9°12	22° 3	
F19	16 12 3	3°49'31	78°31	14°47	8°10	8°58	15°47	8°12	19°28	10°47	27°41	23°26	24°57	9°18	22° 4	
S20	16 16 0	4°46'51	21°47	16°30	9°24	9°38	15°44	8°19	19°31	10°47	27°42	23°27	24°54	9°25	22° 4	
S21	16 19 56	5°44'10	5°M55	18°15	10°37	10°19	15°41	8°26	19°34	10°47	27°43	23°R28	24°51	9°32	22° 5	
M22	16 23 53	6°41'28	19°53	20° 3	11°51	10°59	15°38	8°33	19°37	10°47	27°44	23°27	24°48	9°38	22° 6	
T23	16 27 49	7°38'44	38°42	21°54	13° 5	11°40	15°36	8°41	19°40	10°47	27°45	23°24	24°44	9°45	22° 7	
W24	16 31 46	8°36'00	17°19	23°47	14°19	12°20	15°33	8°48	19°43	10°48	27°47	23°20	24°41	9°51	22° 8	
T25	16 35 42	9°33'15	0°M44	25°42	15°32	13° 1	15°31	8°55	19°46	10°48	27°48	23°14	24°38	9°58	22° 9	
F26	16 39 39	10°30'29	13°57	27°40	16°46	13°41	15°29	9° 2	19°49	10°48	27°49	23° 7	24°35	10° 5	22°11	
S27	16 43 36	11°27'42	26°56	29°40	18° 0	14°21	15°27	9° 9	19°52	10°49	27°50	23° 0	24°32	10°11	22°12	
S28	16 47 32	12°24'55	98°41	1°II42	19°13	15° 1	15°26	9°16	19°55	10°49	27°51	22°53	24°28	10°18	22°14	
M29	16 51 29	13°22'08	22°12	3°46	20°27	15°42	15°24	9°23	19°58	10°49	27°52	22°48	24°25	10°25	22°15	
T30	16 55 25	14°19'19	48°30	5°52	21°40	16°22	15°23	9°30	20° 1	10°50	27°53	22°45	24°22	10°31	22°17	
W31	16 59 22	15°II16'31	168°35	7°II59	22°II54	17°II 2	15°22	9°36	20° 4	10°M50	27°V54	228°43	248°19	108°38	22°M19	

Delta T = 16m57s Julian Calendar 1 May 1116 == Greg. Calendar 8 May 1116

JUNE 1116 JC

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	17 3 18	16°II13'42	288°32	10°II 8	24°II 8	17°II42	15°R21	98°43	208° 8	10°M51	27°V55	228°43	248°16	108°45	22°M21	
F 2	17 7 15	17°10'53	108°22	12°18	25°21	18°22	15°20	9°50	20°11	10°51	27°56	22°44	24°13	10°51	22°23	
S 3	17 11 11	18° 8'04	22°10	14°28	26°35	19° 2	15°20	9°57	20°14	10°52	27°57	22°46	24° 9	10°58	22°25	
S 4	17 15 8	19° 5'14	48° 1	16°39	27°49	19°42	15°19	10° 3	20°17	10°52	27°58	22°47	24° 6	11° 5	22°27	
M 5	17 19 5	20° 2'25	15°59	18°50	29° 2	20°22	15°19	10°10	20°21	10°53	27°59	22°R48	24° 3	11°11	22°30	
T 6	17 23 1	20°59'35	28° 9	21° 1	08°16	21° 2	15°D19	10°16	20°24	10°54	27°59	22°48	24° 0	11°18	22°32	
W 7	17 26 58	21°56'46	10°V36	23°12	1°30	21°42	15°19	10°23	20°27	10°54	28° 0	22°47	23°57	11°25	22°35	
T 8	17 30 54	22°53'56	23°25	25°23	2°43	22°22	15°20	10°29	20°31	10°55	28° 1	22°44	23°54	11°31	22°38	
F 9	17 34 51	23°51'07	68°37	27°32	3°57	23° 2	15°20	10°36	20°34	10°56	28° 2	22°40	23°50	11°38	22°41	
S10	17 38 47	24°48'18	20°14	29°41	5°11	23°42	15°21	10°42	20°37	10°57	28° 3	22°36	23°47	11°45	22°43	
S11	17 42 44	25°45'29	4°II15	18°48	6°24	24°21	15°22	10°49	20°41	10°58	28° 4	22°32	23°44	11°51	22°47	
M12	17 46 40	26°42'40	18°38	3°54	7°38	25° 1	15°23	10°55	20°44	10°58	28° 4	22°29	23°41	11°58	22°50	
T13	17 50 37	27°39'51	38°17	5°59	8°52	25°41	15°24	11° 1	20°48	10°59	28° 5	22°27	23°38	12° 5	22°53	
W14	17 54 34	28°37'03	18° 4	8° 2	10° 5	26°20	15°25	11° 7	20°51	11° 0	28° 6	22°D26	23°34	12°11	22°56	
T15	17 58 30	29°34'13	28°54	10° 3	11°19	27° 0	15°27	11°13	20°55	11° 1	28° 7	22°26	23°31	12°18	23° 0	
F16	18 2 27	08°31'24	17°38	12° 2	12°33	27°40	15°29	11°19	20°58	11° 2	28° 8	22°27	23°28	12°24	23° 3	
S17	18 6 23	1°28'35	2°M12	14° 0	13°46	28°19	15°31	11°25	21° 2	11° 3	28° 8	22°29	23°25	12°31	23° 7	
S18	18 10 20	2°25'45	16°31	15°56	15° 0	28°59	15°33	11°31	21° 5	11° 4	28° 9	22°30	23°22	12°38	23°11	
M19	18 14 16	3°22'55	08°32	17°49	16°13	29°38	15°35	11°37	21° 9	11° 5	28°10	22°R30	23°19	12°44	23°15	
T20	18 18 13	4°20'06	14°16	19°41	17°27	08°18	15°38	11°43	21°12	11° 6	28°10	22°30	23°15	12°51	23°19	
W21	18 22 9	5°17'16	27°41	21°31	18°41	0°57	15°40	11°48	21°16	11° 7	28°11	22°29	23°12	12°58	23°23	
T22	18 26 6	6°14'26	10°M50	23°19	19°54	1°37	15°43	11°54	21°19	11° 9	28°12	22°27	23° 9	13° 4	23°27	
F23	18 30 3	7°11'36	23°43	25° 5	21° 8	2°16	15°46	11°59	21°23	11°10	28°12	22°25	23° 6	13°11	23°31	
S24	18 33 59	8° 8'47	68°22	26°49	22°21	2°55	15°49	12° 5	21°27	11°11	28°13	22°23	23° 3	13°18	23°35	
S25	18 37 56	9° 5'57	18°48	28°32	23°35	3°35	15°53	12°10	21°30	11°12	28°13	22°21	23° 0	13°24	23°40	
M26	18 41 52	10° 3'08	18° 3	08°12	24°49	4°14	15°56	12°16	21°34	11°13	28°14	22°20	22°56	13°31	23°44	
T27	18 45 49	11° 0'19	13° 8	1°50	26° 2	4°53	16° 0	12°21	21°37	11°15	28°14	22°19	22°53	13°38	23°49	
W28	18 49 45	11°57'31	25° 6	3°27	27°16	5°32	16° 4	12°26	21°41	11°16	28°15	22°D19	22°50	13°44	23°54	
T29	18 53 42	12°54'44	68°58	5° 1	28°29	6°12	16° 7	12°31	21°45	11°17	28°15	22°20	22°47	13°51	23°58	
F30	18 57 39	138°51'56	188°46	68°34	298°43	68°51	168°12	128°36	218°48	11°M19	28°V16	228°20	228°44	138°58	24°M 3	

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SWISS EPHEMERIS for the year 1116

JULY 1116 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	19 1 35	14 ⁵ 49'10	0 ⁸ 35	8 ⁰ 4	0 ⁰ 57	7 ⁵ 30	16 ² 16	12 ⁸ 41	21 ⁵ 52	11 ¹ 20	28 ⁸ 16	22 ² 21	22 ² 40	14 ³ 4	24 ¹ 8
S 2	19 5 32	15 ⁴ 46'24	12 ² 26	9 ³ 33	2 ¹ 0	8 ⁰ 9	16 ² 20	12 ⁴ 46	21 ⁵ 56	11 ² 22	28 ¹ 17	22 ² 22	22 ² 37	14 ¹ 11	24 ¹ 13
M 3	19 9 28	16 ⁴ 43'39	24 ² 25	11 ⁰ 0	3 ² 24	8 ⁰ 48	16 ² 25	12 ⁵ 51	21 ⁵ 59	11 ² 23	28 ¹ 17	22 ² 22	22 ² 34	14 ¹ 18	24 ¹ 19
T 4	19 13 25	17 ⁴ 40'55	6 ⁷ 35	12 ² 24	4 ³ 37	9 ² 27	16 ² 30	12 ⁵ 56	22 ⁰ 3	11 ² 24	28 ¹ 18	22 ² 23	22 ² 31	14 ¹ 24	24 ¹ 24
W 5	19 17 21	18 ³ 38'12	19 ⁰ 0	13 ⁴ 47	5 ⁵ 51	10 ⁰ 6	16 ² 35	13 ⁰ 0	22 ⁰ 7	11 ² 26	28 ¹ 18	22 ² R23	22 ² 28	14 ¹ 31	24 ¹ 29
T 6	19 21 18	19 ³ 35'30	1 ⁸ 45	15 ⁰ 7	7 ⁰ 4	10 ⁴ 5	16 ² 40	13 ⁰ 5	22 ⁰ 10	11 ² 27	28 ¹ 18	22 ² 23	22 ² 25	14 ¹ 38	24 ¹ 34
F 7	19 25 14	20 ³ 32'49	14 ⁵ 53	16 ² 26	8 ¹ 18	11 ² 24	16 ² 45	13 ⁰ 9	22 ⁰ 14	11 ² 29	28 ¹ 19	22 ² 23	22 ² 21	14 ¹ 44	24 ¹ 40
S 8	19 29 11	21 ³ 30'09	28 ² 27	17 ⁴ 42	9 ⁰ 31	12 ⁰ 3	16 ² 50	13 ⁰ 14	22 ⁰ 18	11 ² 31	28 ¹ 19	22 ² 22	22 ² 18	14 ¹ 51	24 ¹ 46
S 9	19 33 8	22 ² 27'31	12 ¹ 28	18 ⁵ 56	10 ⁴ 5	12 ⁴ 2	16 ² 56	13 ⁰ 18	22 ⁰ 21	11 ² 32	28 ¹ 19	22 ² D22	22 ² 15	14 ¹ 58	24 ¹ 51
M10	19 37 4	23 ² 24'53	26 ⁵ 53	20 ⁰ 8	11 ⁵ 59	13 ² 21	17 ⁰ 2	13 ² 23	22 ⁰ 25	11 ² 34	28 ¹ 19	22 ² 22	22 ² 12	15 ⁰ 4	24 ¹ 57
T 11	19 41 1	24 ² 22'16	11 ⁵ 40	21 ¹ 17	13 ¹ 12	14 ⁰ 7	17 ⁰ 7	13 ² 27	22 ⁰ 29	11 ² 35	28 ¹ 20	22 ² 22	22 ² 9	15 ¹ 11	25 ⁰ 3
W12	19 44 57	25 ¹ 19'40	26 ⁴ 1	22 ² 24	14 ² 26	14 ³ 29	17 ¹ 13	13 ³ 31	22 ⁰ 33	11 ² 37	28 ¹ 20	22 ² R23	22 ² 6	15 ¹ 18	25 ⁰ 9
T 13	19 48 54	26 ⁰ 17'06	11 ¹ 48	23 ² 29	15 ³ 39	15 ¹ 18	17 ¹ 19	13 ³ 35	22 ⁰ 36	11 ² 39	28 ¹ 20	22 ² 22	22 ² 2	15 ¹ 24	25 ⁰ 15
F 14	19 52 50	27 ⁰ 14'31	26 ⁵ 52	24 ³ 30	16 ⁵ 53	15 ⁵ 56	17 ² 26	13 ³ 39	22 ⁰ 40	11 ² 40	28 ¹ 20	22 ² 22	21 ⁵ 59	15 ¹ 31	25 ⁰ 21
S 15	19 56 47	28 ⁰ 11'58	11 ¹ 45	25 ³ 30	18 ⁰ 6	16 ³ 35	17 ² 32	13 ⁴ 43	22 ⁰ 44	11 ² 42	28 ¹ 21	22 ² 21	21 ⁵ 56	15 ¹ 38	25 ⁰ 27
S 16	20 0 43	29 ⁰ 9'26	26 ² 26	19 ² 20	17 ¹ 14	17 ² 39	13 ⁴ 46	22 ⁰ 47	11 ² 44	28 ¹ 21	22 ² 21	21 ⁵ 53	15 ¹ 44	25 ⁰ 33	
M17	20 4 40	0 ⁰ 6'54	10 ² 32	27 ¹ 19	20 ² 33	17 ⁵ 53	17 ⁴ 5	13 ⁵ 50	22 ⁰ 51	11 ² 46	28 ¹ 21	22 ² 20	21 ⁵ 50	15 ¹ 51	25 ⁰ 39
T 18	20 8 37	1 ⁰ 4'23	24 ² 20	28 ⁰ 9	21 ⁴ 47	18 ³ 1	17 ⁵ 2	13 ⁵ 53	22 ⁰ 55	11 ² 47	28 ¹ 21	22 ² 20	21 ⁴ 46	15 ¹ 57	25 ⁰ 45
W19	20 12 33	2 ⁰ 1'53	7 ¹ 43	28 ⁵ 56	23 ⁰ 0	19 ¹ 10	17 ⁵ 9	13 ⁵ 57	22 ⁰ 58	11 ² 49	28 ¹ 21	22 ² D20	21 ⁴ 43	16 ⁰ 4	25 ⁰ 52
T 20	20 16 30	2 ⁵ 59'23	20 ⁴ 44	29 ³ 39	24 ¹ 14	19 ⁴ 9	18 ⁰ 6	14 ⁰ 0	23 ⁰ 2	11 ² 51	28 ¹ 21	22 ² 20	21 ⁴ 40	16 ¹ 11	25 ⁰ 58
F 21	20 20 26	3 ⁵ 56'55	3 ⁷ 26	0 ¹ 19	25 ² 27	20 ² 27	18 ¹ 13	14 ⁰ 4	23 ⁰ 6	11 ² 53	28 ¹ 21	22 ² 21	21 ³ 37	16 ¹ 17	26 ⁰ 5
S 22	20 24 23	4 ⁵ 54'28	15 ⁵ 51	0 ⁵ 55	26 ⁴ 41	21 ⁰ 6	18 ² 1	14 ⁰ 7	23 ⁰ 9	11 ² 55	28 ¹ R21	22 ² 22	21 ³ 34	16 ¹ 24	26 ⁰ 11
S 23	20 28 19	5 ⁵ 52'01	28 ⁰ 4	1 ² 26	27 ⁵ 54	21 ⁴ 5	18 ² 8	14 ¹ 10	23 ⁰ 13	11 ² 56	28 ¹ 21	22 ² 23	21 ³ 31	16 ¹ 31	26 ⁰ 18
M24	20 32 16	6 ⁴ 49'36	10 ⁵ 6	1 ⁵ 54	29 ⁰ 7	22 ² 23	18 ³ 6	14 ¹ 13	23 ⁰ 16	11 ² 58	28 ¹ 21	22 ² 24	21 ² 27	16 ¹ 37	26 ⁰ 25
T 25	20 36 12	7 ⁴ 47'12	22 ⁰ 2	2 ¹ 17	0 ¹ 21	23 ⁰ 2	18 ⁴ 4	14 ¹ 16	23 ⁰ 20	12 ⁰ 0	28 ¹ 21	22 ² R25	21 ² 24	16 ¹ 44	26 ⁰ 32
W26	20 40 9	8 ⁴ 44'49	3 ³ 53	2 ³ 35	1 ³ 34	23 ⁰ 40	18 ⁵ 1	14 ¹ 19	23 ⁰ 24	12 ⁰ 2	28 ¹ 21	22 ² 24	21 ² 21	16 ¹ 51	26 ⁰ 38
T 27	20 44 6	9 ⁴ 42'27	15 ⁴ 2	2 ⁴ 9	2 ⁴ 48	24 ¹ 19	18 ⁵ 9	14 ² 1	23 ⁰ 27	12 ⁰ 4	28 ¹ 21	22 ² 23	21 ¹ 18	16 ¹ 57	26 ⁰ 45
F 28	20 48 2	10 ⁴ 40'07	2 ⁷ 30	2 ⁵ 57	4 ⁰ 1	24 ² 57	19 ⁰ 8	14 ² 24	23 ⁰ 31	12 ⁰ 6	28 ¹ 21	22 ² 21	21 ¹ 15	17 ⁰ 4	26 ⁰ 52
S 29	20 51 59	11 ³ 37'48	9 ⁸ 21	3 ⁰ R 0	5 ⁰ 14	25 ² 35	19 ¹ 16	14 ² 26	23 ⁰ 34	12 ⁰ 8	28 ¹ 21	22 ² 18	21 ¹ 12	17 ¹ 11	26 ⁰ 59
S 30	20 55 55	12 ³ 35'30	21 ⁰ 17	2 ⁵ 57	6 ⁰ 28	26 ² 14	19 ² 24	14 ² 29	23 ⁰ 38	12 ⁰ 10	28 ¹ 20	22 ² 15	21 ⁰ 8	17 ¹ 17	27 ⁰ 6
M31	20 59 52	13 ³ 33'15	3 ⁷ 20	2 ¹ 49	7 ¹ 41	26 ² 52	19 ² 33	14 ² 31	23 ⁰ 41	12 ⁰ 12	28 ¹ R20	22 ² R12	21 ⁰ 5	17 ¹ 24	27 ⁰ 14

Delta T = 16m57s

Julian Calendar 1 July 1116 == Greg. Calendar 8 July 1116

AUGUST 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	21 3 48	14 ⁰ 31'00	15 ⁷ 32	2 ⁰ R35	8 ¹ 54	27 ⁵ 31	19 ² 41	14 ⁸ 33	23 ⁵ 45	12 ¹ 14	28 ¹ R20	22 ⁰ R 9	21 ⁰ 2	17 ³ 31	27 ¹ 21
W 2	21 7 45	15 ⁵ 28'48	27 ⁵ 58	2 ¹ 16	10 ⁰ 8	28 ⁰ 9	19 ² 50	14 ⁸ 35	23 ⁴ 48	12 ¹ 16	28 ¹ R20	22 ⁰ 7	20 ⁵ 59	17 ³ 37	27 ¹ 28
T 3	21 11 41	16 ⁵ 26'37	10 ⁸ 41	1 ⁵ 50	11 ¹ 21	28 ⁴ 47	19 ² 59	14 ⁸ 37	23 ⁵ 52	12 ¹ 18	28 ¹ 20	22 ⁰ D 6	20 ⁵ 56	17 ⁴ 44	27 ¹ 35
F 4	21 15 38	17 ⁵ 24'28	23 ⁴ 44	1 ¹ 19	12 ¹ 34	29 ² 26	20 ⁰ 7	14 ⁸ 39	23 ⁵ 55	12 ¹ 20	28 ¹ 19	22 ⁰ 6	20 ⁵ 52	17 ⁵ 51	27 ¹ 43
S 5	21 19 35	18 ⁵ 22'21	7 ¹ 21	0 ⁴ 2	13 ¹ 47	0 ⁰ 4	20 ¹ 16	14 ⁸ 41	23 ⁵ 59	12 ¹ 22	28 ¹ 19	22 ⁰ 7	20 ⁴ 49	17 ⁵ 57	27 ¹ 50
S 6	21 23 31	19 ⁵ 20'16	21 ⁰ 1	0 ⁰ 1	15 ⁰ 1	0 ⁴ 2	20 ² 26	14 ⁸ 43	24 ⁰ 2	12 ¹ 24	28 ¹ 19	22 ⁰ 8	20 ⁴ 46	18 ⁰ 4	27 ¹ 58
M 7	21 27 28	20 ⁵ 18'13	5 ⁵ 18	29 ⁰ 15	16 ¹ 14	1 ² 20	20 ² 35	14 ⁸ 44	24 ⁰ 6	12 ¹ 26	28 ¹ 19	22 ⁰ 9	20 ⁴ 43	18 ¹ 11	28 ⁰ 5
T 8	21 31 24	21 ⁵ 16'12	19 ⁵ 58	28 ² 25	17 ² 27	1 ⁵ 59	20 ² 44	14 ⁸ 46	24 ⁰ 9	12 ¹ 28	28 ¹ 18	22 ⁰ R10	20 ⁴ 40	18 ¹ 17	28 ⁰ 13
W 9	21 35 21	22 ⁵ 14'12	4 ⁰ 58	27 ³ 32	18 ¹ 40	2 ³ 27	20 ² 54	14 ⁸ 47	24 ¹ 12	12 ¹ 31	28 ¹ 18	22 ⁰ 10	20 ³ 37	18 ¹ 24	28 ⁰ 20
T 10	21 39 17	23 ⁵ 12'14	20 ⁰ 9	26 ² 36	19 ¹ 54	3 ¹ 5	21 ⁰ 3	14 ⁸ 48	24 ¹ 16	12 ¹ 33	28 ¹ 18	22 ⁰ 8	20 ³ 33	18 ¹ 31	28 ⁰ 28
F 11	21 43 14	24 ⁵ 10'18	5 ¹ 22	25 ⁴ 40	21 ⁰ 7	3 ⁵ 53	21 ⁰ 13	14 ⁸ 49	24 ¹ 19	12 ¹ 35	28 ¹ 17	22 ⁰ 4	20 ³ 30	18 ¹ 37	28 ⁰ 36
S 12	21 47 10	25 ⁵ 8'23	20 ² 28	24 ⁴ 44	22 ² 20	4 ³ 31	21 ⁰ 23	14 ⁸ 51	24 ² 22	12 ¹ 37	28 ¹ 17	22 ⁰ 0	20 ² 27	18 ¹ 44	28 ⁰ 44
S 13	21 51 7	26 ⁵ 6'30	5 ² 16	23 ⁴ 49	23 ³ 33	5 ⁰ 9	21 ⁰ 32	14 ⁸ 51	24 ² 26	12 ¹ 39	28 ¹ 16	21 ⁵ 55	20 ² 24	18 ¹ 51	28 ⁰ 51
M14	21 55 4	27 ⁵ 4'38	19 ⁴ 40	22 ⁵ 56	24 ⁴ 46	5 ⁴ 48	21 ⁰ 42	14 ⁸ 52	24 ² 29	12 ¹ 41	28 ¹ 16	21 ⁵ 50	20 ² 21	18 ¹ 57	28 ⁰ 59
T 15	21 59 0	28 ⁵ 2'48	3 ¹ 36	22 ⁰ 7	25 ⁵ 59	6 ² 26	21 ⁰ 52	14 ⁸ 53	24 ² 32	12 ¹ 43	28 ¹ 15	21 ⁴ 47	20 ¹ 17	19 ⁰ 4	29 ⁰ 7
W16	22 2 57	29 ⁵ 1'00	17 ⁰ 5	21 ² 23	27 ¹ 2	7 ⁰ 4	22 ⁰ 2	14 ⁸ 54	24 ² 35	12 ¹ 46	28 ¹ 15	21 ⁴ 44			

SWISS EPHEMERIS for the year 1116

SEPTEMBER 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
F 1	23 6 2	14 ^h 35'57	3 ^h 11'19	27 ^o 13'35	16 ^o 16'39	17 ^o 10'10	24 ^o 56'56	14 ^o R49	25 ^o 23	13 ^h 21	28 ^o R 5	20 ^o R46	19 ^h 23	20 ^h 57	1 ^h 27									
S 2	23 9 58	15 ^o 34'40	16 ^o 39	29 ^o 1	17 ^o 52	17 ^o 48	25 ^o 7	14 ^h 47	25 ^o 25	13 ^h 23	28 ^h 4	20 ^o D45	19 ^h 20	21 ^o 4	1 ^o 35									
S 3	23 13 55	16 ^o 33'26	0 ^h 20	0 ^h 32	19 ^o 4	18 ^o 25	25 ^o 19	14 ^o 46	25 ^o 28	13 ^o 26	28 ^o 3	20 ^h 46	19 ^h 17	21 ^h 11	1 ^h 44									
M 4	23 17 51	17 ^o 32'14	14 ^o 23	2 ^o 6	20 ^o 17	19 ^o 3	25 ^o 31	14 ^o 45	25 ^o 31	13 ^o 28	28 ^o 2	20 ^h R46	19 ^h 14	21 ^h 17	1 ^h 52									
T 5	23 21 48	18 ^o 31'05	28 ^o 48	3 ^o 44	21 ^o 30	19 ^o 41	25 ^o 42	14 ^o 43	25 ^o 33	13 ^o 30	28 ^o 1	20 ^o 46	19 ^h 11	21 ^h 24	2 ^o 1									
W 6	23 25 44	19 ^o 29'57	13 ^h 33	5 ^o 24	22 ^o 42	20 ^o 18	25 ^o 54	14 ^o 41	25 ^o 36	13 ^o 32	28 ^o 1	20 ^o 44	19 ^o 8	21 ^h 31	2 ^h 10									
T 7	23 29 41	20 ^o 28'52	28 ^o 32	7 ^o 6	23 ^o 55	20 ^o 56	26 ^o 6	14 ^o 40	25 ^o 38	13 ^o 34	28 ^o 0	20 ^o 40	19 ^o 4	21 ^h 37	2 ^h 18									
F 8	23 33 37	21 ^o 27'49	13 ^h 39	8 ^o 50	25 ^o 8	21 ^o 34	26 ^o 18	14 ^o 38	25 ^o 41	13 ^o 37	27 ^o 59	20 ^o 33	19 ^o 1	21 ^h 44	2 ^h 27									
S 9	23 37 34	22 ^o 26'48	28 ^o 42	10 ^o 36	26 ^o 20	22 ^o 11	26 ^o 30	14 ^o 36	25 ^o 43	13 ^o 39	27 ^o 58	20 ^o 24	18 ^o 58	21 ^h 51	2 ^h 35									
S 10	23 41 31	23 ^o 25'50	13 ^h 32	12 ^o 22	27 ^o 33	22 ^o 49	26 ^o 42	14 ^o 34	25 ^o 46	13 ^o 41	27 ^o 57	20 ^o 14	18 ^o 55	21 ^h 57	2 ^h 44									
M11	23 45 27	24 ^o 24'53	28 ^o 2	14 ^o 10	28 ^o 45	23 ^o 27	26 ^o 54	14 ^o 32	25 ^o 48	13 ^o 43	27 ^o 56	20 ^o 5	18 ^o 52	22 ^o 4	2 ^h 53									
T 12	23 49 24	25 ^o 23'58	12 ^h 4	15 ^o 57	29 ^o 58	24 ^o 4	27 ^o 6	14 ^o 29	25 ^o 50	13 ^o 46	27 ^o 55	19 ^o 56	18 ^o 49	22 ^h 11	3 ^o 1									
W13	23 53 20	26 ^o 23'05	25 ^o 38	17 ^o 45	1 ^h 10	24 ^o 42	27 ^o 18	14 ^o 27	25 ^o 52	13 ^o 48	27 ^o 54	19 ^o 50	18 ^o 45	22 ^h 17	3 ^h 10									
T 14	23 57 17	27 ^o 22'14	8 ^h 44	19 ^o 33	2 ^o 22	25 ^o 19	27 ^o 30	14 ^o 25	25 ^o 55	13 ^o 50	27 ^o 53	19 ^o 47	18 ^o 42	22 ^h 24	3 ^h 18									
F 15	0 1 13	28 ^o 21'24	21 ^o 24	21 ^o 21	3 ^o 35	25 ^o 57	27 ^o 42	14 ^o 22	25 ^o 57	13 ^o 52	27 ^o 52	19 ^o 45	18 ^o 39	22 ^h 31	3 ^h 27									
S 16	0 5 10	29 ^o 20'37	3 ^h 44	23 ^o 8	4 ^o 47	26 ^o 34	27 ^o 55	14 ^o 19	25 ^o 59	13 ^o 54	27 ^o 51	19 ^o D45	18 ^o 36	22 ^h 37	3 ^h 36									
S 17	0 9 6	0 ^h 19'51	15 ^o 47	24 ^o 56	5 ^o 59	27 ^o 12	28 ^o 7	14 ^o 17	26 ^o 1	13 ^o 56	27 ^o 50	19 ^o R45	18 ^o 33	22 ^h 44	3 ^h 45									
M18	0 13 3	1 ^o 19'07	27 ^o 41	26 ^o 42	7 ^o 12	27 ^o 49	28 ^o 20	14 ^o 14	26 ^o 3	13 ^o 59	27 ^o 50	19 ^o 45	18 ^o 29	22 ^h 51	3 ^h 53									
T 19	0 16 59	2 ^o 18'25	9 ^h 29	28 ^o 28	8 ^o 24	28 ^o 26	28 ^o 32	14 ^o 11	26 ^o 5	14 ^o 1	27 ^o 49	19 ^o 43	18 ^o 26	22 ^h 57	4 ^o 2									
W20	0 20 56	3 ^o 17'45	21 ^o 17	0 ^h 14	9 ^o 36	29 ^o 4	28 ^o 45	14 ^o 8	26 ^o 7	14 ^o 3	27 ^o 47	19 ^o 39	18 ^o 23	23 ^o 4	4 ^h 11									
T 21	0 24 53	4 ^o 17'07	3 ^h 9	1 ^o 59	10 ^o 48	29 ^o 41	28 ^o 57	14 ^o 5	26 ^o 9	14 ^o 5	27 ^o 46	19 ^o 32	18 ^o 20	23 ^h 11	4 ^h 19									
F 22	0 28 49	5 ^o 16'30	15 ^o 6	3 ^o 43	12 ^o 0	0 ^h 18	29 ^o 10	14 ^o 2	26 ^o 11	14 ^o 7	27 ^o 45	19 ^o 22	18 ^o 17	23 ^h 17	4 ^h 28									
S 23	0 32 46	6 ^o 15'56	27 ^o 12	5 ^o 27	13 ^o 12	0 ^h 56	29 ^o 22	13 ^o 58	26 ^o 12	14 ^o 9	27 ^o 44	19 ^o 10	18 ^o 14	23 ^h 24	4 ^h 37									
S 24	0 36 42	7 ^o 15'24	9 ^h 29	7 ^o 9	14 ^o 24	1 ^o 33	29 ^o 35	13 ^o 55	26 ^o 14	14 ^o 11	27 ^o 43	18 ^o 57	18 ^o 10	23 ^h 31	4 ^h 45									
M25	0 40 39	8 ^o 14'53	21 ^o 55	8 ^o 52	15 ^o 36	2 ^o 10	29 ^o 48	13 ^o 51	26 ^o 16	14 ^o 13	27 ^o 42	18 ^o 43	18 ^o 7	23 ^h 37	4 ^h 54									
T 26	0 44 35	9 ^o 14'25	4 ^h 32	10 ^o 33	16 ^o 48	2 ^o 48	0 ^h 0	13 ^o 48	26 ^o 17	14 ^o 15	27 ^o 41	18 ^o 30	18 ^o 4	23 ^h 44	5 ^o 3									
W27	0 48 32	10 ^o 13'59	17 ^o 20	12 ^o 14	18 ^o 0	3 ^o 25	0 ^h 13	13 ^o 44	26 ^o 19	14 ^o 18	27 ^o 40	18 ^o 20	18 ^o 1	23 ^h 51	5 ^h 11									
T 28	0 52 28	11 ^o 13'36	0 ^h 20	13 ^o 54	19 ^o 12	4 ^o 2	0 ^h 26	13 ^o 41	26 ^o 21	14 ^o 20	27 ^o 39	18 ^o 12	17 ^o 58	23 ^h 57	5 ^h 20									
F 29	0 56 25	12 ^o 13'15	13 ^o 31	15 ^o 34	20 ^o 24	4 ^o 39	0 ^h 39	13 ^o 37	26 ^o 22	14 ^o 22	27 ^o 38	18 ^o 7	17 ^o 54	24 ^o 4	5 ^h 29									
S 30	1 0 22	13 ^h 12'56	26 ^h 54	17 ^h 13	21 ^h 36	5 ^h 17	0 ^h 52	13 ^h 33	26 ^h 24	14 ^h 24	27 ^h 37	18 ^h 4	17 ^h 51	24 ^h 11	5 ^h 37									

Delta T = 16m56s Julian Calendar 1 Sept. 1116 == Greg. Calendar 8 Sept. 1116

OCTOBER 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
S 1	1 4 18	14 ^h 12'39	10 ^h 32	18 ^h 51	22 ^h 48	5 ^h 54	1 ^h 5	13 ^h R29	26 ^h 25	14 ^h 26	27 ^h R36	18 ^h R 4	17 ^h 48	24 ^h 17	5 ^h 46									
M 2	1 8 15	15 ^o 12'25	24 ^o 26	20 ^o 29	23 ^o 59	6 ^o 31	1 ^o 18	13 ^h 25	26 ^o 26	14 ^o 28	27 ^h 35	18 ^h 4	17 ^h 45	24 ^h 24	5 ^h 55									
T 3	1 12 11	16 ^o 12'13	8 ^h 36	22 ^o 6	25 ^o 11	7 ^o 8	1 ^o 31	13 ^h 21	26 ^o 28	14 ^o 30	27 ^h 34	18 ^o 3	17 ^h 42	24 ^h 31	6 ^o 3									
W 4	1 16 8	17 ^o 12'03	23 ^o 0	23 ^o 43	26 ^o 23	7 ^o 45	1 ^h 44	13 ^h 17	26 ^o 29	14 ^o 32	27 ^h 33	18 ^o 0	17 ^h 39	24 ^h 37	6 ^h 12									
T 5	1 20 4	18 ^o 11'56	7 ^h 38	25 ^o 18	27 ^o 34	8 ^o 22	1 ^o 57	13 ^h 13	26 ^o 30	14 ^o 33	27 ^h 31	17 ^o 54	17 ^h 35	24 ^h 44	6 ^h 20									
F 6	1 24 1	19 ^o 11'50	22 ^o 22	26 ^o 54	28 ^o 46	9 ^o 0	2 ^o 10	13 ^o 9	26 ^o 31	14 ^o 35	27 ^h 30	17 ^o 46	17 ^h 32	24 ^h 51	6 ^h 29									
S 7	1 27 57	20 ^o 11'47	7 ^h 7	28 ^o 29	29 ^o 57	9 ^o 37	2 ^o 23	13 ^o 4	26 ^o 32	14 ^o 37	27 ^h 29	17 ^o 35	17 ^h 29	24 ^h 57	6 ^h 38									
S 8	1 31 54	21 ^o 11'46	21																					

SWISS EPHEMERIS for the year 1116

NOVEMBER 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
W 1	3 6 31	15♌19'48	3♎27	5♌19	29♌22	24♎56	7♍54	11°R 6	26°R42	15♎18	27°R 1	15°R 9	16♑10	27♌44	10♌ 3									
T 2	3 10 28	16°20'29	17°43	6°38	0♑31	25°32	8° 7	11♌ 1	26♑41	15°19	27°Y 0	15♑ 5	16° 6	27°51	10°10									
F 3	3 14 24	17°21'12	2♌ 1	7°56	1°41	26° 8	8°20	10°56	26°41	15°21	26°59	14°59	16° 3	27°58	10°18									
S 4	3 18 21	18°21'57	16°18	9°12	2°50	26°45	8°33	10°51	26°41	15°22	26°58	14°51	16° 0	28° 4	10°25									
S 5	3 22 18	19°22'44	0♍29	10°25	3°59	27°21	8°46	10°46	26°40	15°23	26°57	14°41	15°57	28°11	10°33									
M 6	3 26 14	20°23'31	14°27	11°37	5° 8	27°58	9° 0	10°41	26°39	15°24	26°56	14°32	15°54	28°18	10°40									
T 7	3 30 11	21°24'21	28° 9	12°46	6°17	28°34	9°13	10°37	26°39	15°25	26°55	14°23	15°51	28°24	10°48									
W 8	3 34 7	22°25'11	11♌32	13°52	7°26	29°10	9°26	10°32	26°38	15°26	26°54	14°16	15°47	28°31	10°55									
T 9	3 38 4	23°26'03	24°33	14°55	8°34	29°46	9°39	10°27	26°37	15°28	26°53	14°12	15°44	28°38	11° 3									
F 10	3 42 0	24°26'56	7♑13	15°54	9°43	0♌22	9°52	10°22	26°37	15°29	26°52	14°10	15°41	28°44	11°10									
S 11	3 45 57	25°27'49	19°35	16°49	10°51	0°59	10° 5	10°18	26°36	15°30	26°51	14°D10	15°38	28°51	11°17									
S 12	3 49 53	26°28'44	1♌42	17°39	11°59	1°35	10°18	10°13	26°35	15°31	26°50	14°11	15°35	28°58	11°24									
M13	3 53 50	27°29'40	13°38	18°23	13° 7	2°11	10°31	10° 8	26°34	15°32	26°49	14°12	15°32	29° 4	11°31									
T 14	3 57 47	28°30'36	25°28	19° 1	14°15	2°47	10°44	10° 4	26°33	15°33	26°48	14°R13	15°28	29°11	11°38									
W15	4 1 43	29°31'33	7♌18	19°31	15°22	3°23	10°57	9°59	26°32	15°33	26°47	14°13	15°25	29°18	11°45									
T 16	4 5 40	0♌32'31	19°13	19°54	16°30	3°59	11°10	9°55	26°31	15°34	26°46	14°11	15°22	29°25	11°52									
F 17	4 9 36	1°33'29	1°Y18	20° 8	17°37	4°35	11°23	9°51	26°30	15°35	26°45	14° 7	15°19	29°31	11°59									
S 18	4 13 33	2°34'29	13°36	20°R12	18°44	5°11	11°36	9°46	26°29	15°36	26°45	14° 1	15°16	29°38	12° 6									
S 19	4 17 29	3°35'29	26°12	20° 6	19°51	5°46	11°49	9°42	26°27	15°37	26°44	13°54	15°12	29°45	12°12									
M20	4 21 26	4°36'29	9♌ 6	19°49	20°58	6°22	12° 2	9°38	26°26	15°37	26°43	13°47	15° 9	29°51	12°19									
T 21	4 25 22	5°37'31	22°18	19°20	22° 4	6°58	12°14	9°34	26°25	15°38	26°42	13°40	15° 6	29°58	12°25									
W22	4 29 19	6°38'33	5♀49	18°40	23°10	7°34	12°27	9°29	26°23	15°39	26°41	13°34	15° 3	0♌ 5	12°32									
T 23	4 33 16	7°39'37	19°35	17°49	24°16	8° 9	12°40	9°25	26°22	15°40	26°40	13°30	15° 0	0°11	12°38									
F 24	4 37 12	8°40'41	3♑33	16°47	25°22	8°45	12°52	9°21	26°21	15°40	26°39	13°28	14°57	0°18	12°45									
S 25	4 41 9	9°41'45	17°40	15°37	26°28	9°21	13° 5	9°18	26°19	15°41	26°39	13°D28	14°53	0°25	12°51									
S 26	4 45 5	10°42'51	1♌52	14°20	27°33	9°56	13°18	9°14	26°18	15°41	26°38	13°29	14°50	0°31	12°57									
M27	4 49 2	11°43'58	16° 5	12°59	28°38	10°32	13°30	9°10	26°16	15°42	26°37	13°30	14°47	0°38	13° 3									
T 28	4 52 58	12°45'05	0♎17	11°36	29°43	11° 7	13°43	9° 6	26°14	15°42	26°36	13°32	14°44	0°45	13° 9									
W29	4 56 55	13°46'13	14°27	10°14	0♌47	11°43	13°55	9° 3	26°13	15°43	26°36	13°R32	14°41	0°51	13°15									
T 30	5 0 51	14°47'22	28♎32	8♌56	1♌51	12♌18	14♎ 7	8♂59	26♑11	15♎43	26°Y35	13♑32	14♑37	0♌58	13♌21									

Delta T = 16m55s Julian Calendar 1 Nov. 1116 == Greg. Calendar 8 Nov. 1116

DECEMBER 1116 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
F 1	5 4 48	15♌48'32	12♌31	7°R45	2♌55	12♌53	14♎20	8°R56	26°R 9	15♎43	26°R34	13°R30	14♑34	1♌ 5	13♌26									
S 2	5 8 45	16°49'42	26°23	6♌41	3°59	13°29	14°32	8♂52	26♑ 7	15°44	26°Y34	13♑26	14°31	1°12	13°32									
S 3	5 12 41	17°50'54	10♍ 4	5°47	5° 2	14° 4	14°44	8°49	26° 5	15°44	26°33	13°22	14°28	1°18	13°38									
M 4	5 16 38	18°52'06	23°34	5° 4	6° 5	14°39	14°56	8°46	26° 4	15°44	26°32	13°18	14°25	1°25	13°43									
T 5	5 20 34	19°53'18	6♌51	4°31	7° 7	15°14	15° 8	8°43	26° 2	15°45	26°32	13°15	14°22	1°32	13°49									
W 6	5 24 31	20°54'31	19°52	4° 9	8°10	15°49	15°20	8°40	26° 0	15°45	26°31	13°12	14°18	1°38	13°54									
T 7	5 28 27	21°55'44	2♑38	3°57	9°11	16°24	15°32	8°37	25°58	15°45	26°30	13°10	14°15	1°45	13°59									
F 8	5 32 24	22°56'57	15° 9	3°D55	10°13	16°59	15°44	8°34	25°56	15°45	26°30	13°D10	14°12	1°52	14° 4									
S 9	5 36 21	23°58'10	27°26	4° 2	11°14	17°34	15°56	8°31	25°53	15°45	26°29	13°11	14° 9	1°58	14° 9									
S 10	5 40 17	24°59'23	9♌30	4°18	12°15	18° 9	16° 8	8°29	25°51	15°45	26°29	13°12	14° 6	2° 5	14°14									
M11	5 44 14	26° 0'36	21°26	4°42	13°15	18°44	16°20	8°26	25°49	15°R45	26°28	13°13	14° 3	2°12	14°19									
T 12	5 48 10	27° 1'49	3♌17	5°12	14°15	19°19	16°31	8°24	25°47	15°45	26°28	13°15	13°59	2°18	14°24									
W13	5 52 7	28° 3'02	15° 7	5°49	15°14	19°54	16°43	8°22	25°45	15°45	26°27	13°16	13°56	2°25	14°28									
T 14	5 56 3	29° 4'14	27° 1	6°31	16°13	20°28	16°54	8°19	25°43	15°45	26°27	13°R17	13°53	2°32	14°33									
F 15	6 0 0	0♑ 5'26	9°Y 4	7°19	17°11	21° 3	17° 6	8°17	25°40	15°45	26°26	13°16	13°50	2°38	14°37									
S 16	6 3 56	1° 6'38	21°21	8°11	18° 9	21°37	17°17	8°15	25°38	15°45	26°26	13°16	13°47	2°45	14°42									
S 17	6 7 53	2° 7'49	3♌55	9° 6	19° 6	22°12	17°28	8°13	25°36	15°45	26°26	13°14	13°43	2°52	14°46									
M18	6 11 49	3° 9'00	16°51	10° 6	20° 3	22°46	17°40	8°12	25°33	15°44	26°25	13°13	13°40	2°59	14°50									
T 19	6 15 46	4°10'10	0♀10	11° 8	20°59	23°20	17°51	8°10	25°31	15°44	26°25	13°12	13°37	3° 5	14°54									
W20	6 19 43	5°11'20	13°52	12°14	21°55	23°55	18° 2	8° 8	25°29	15°44	26°25	13°11	13°34	3°12	14°58									
T 21	6 23 39	6°12'30	27°57	13°22	22°50	24°29	18°13	8° 7	25°26	15°44	26°24	13°10	13°31	3°19	15° 2									
F 22	6 27 36	7°13'40	12♑19	14°32	23°44	25° 3	18°23	8° 6	25°24	15°43	26°24	13°D10	13°28	3°25	15° 6									
S 23	6 31 32	8°14'49	26°54	15°44	24°38	25°37	18°34	8° 4	25°21	15°43	26°24	13°10	13°24	3°32	15° 9									
S 24	6 35 29	9°15'57	11♌35	16°58	25°30	26°11	18°45	8° 3	25°19	15°42	26°24	13°10	13°21	3°39	15°13									
M25	6 39 25	10°17'06	26°16	18°14	26°23	26°45	18°56	8° 2	25°16	15°42	26°23	13°10	13°18	3°45	15°16									
T 26	6 43 22	11°18'14	10♎51	19°31	27°14	27°19	19° 6	8° 1	25°14	15°42	26°23	13°11	13°15	3°52	15°19									
W27	6 47 19	12°19'21	25°14	20°49	28° 5	27°52	19°16	8° 0	25°11	15°41	26°23	13°11	13°12	3°59	15°23									
T 28	6 51 15	13°20'29	9♌23	22° 9	28°54	28°26	19°27	8° 0	25° 9															