

SWISS EPHEMERIS for the year 2010

JANUARY 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	6 42 10	10°27'04"	13°01'15"	19°R 0	7°35'1	18°R49	26°22'	4°30'	23°5'	24°35'	3°19'	21°R 5	21°38'	10°11'	23°7'
S 2	6 46 7	11°28'12"	28°19'	17°35'4	9°6'	18°R39	26°34'	4°32'	23°7'	24°37'	3°21'	21°D 5	21°35'	10°18'	23°10'
S 3	6 50 3	12°29'20"	13°02'21"	16°41'	10°22'	18°29'	26°46'	4°33'	23°9'	24°38'	3°23'	21°3'	21°32'	10°25'	23°14'
M 4	6 54 0	13°30'28"	28°14'	15°23'	11°37'	18°18'	26°58'	4°34'	23°10'	24°40'	3°25'	21°6'	21°29'	10°31'	23°17'
T 5	6 57 56	14°31'36"	12°05'50"	14°3'	12°53'	18°5'	27°11'	4°35'	23°12'	24°42'	3°27'	21°7'	21°25'	10°38'	23°21'
W 6	7 1 53	15°32'45"	27°6'	12°42'	14°8'	17°53'	27°23'	4°36'	23°14'	24°44'	3°29'	21°7'	21°22'	10°45'	23°24'
T 7	7 5 49	16°33'53"	10°05'59"	11°23'	15°24'	17°39'	27°36'	4°37'	23°15'	24°46'	3°31'	21°R 7	21°19'	10°51'	23°28'
F 8	7 9 46	17°35'02"	24°29'	10°10'	16°39'	17°24'	27°48'	4°37'	23°17'	24°48'	3°34'	21°7'	21°16'	10°58'	23°32'
S 9	7 13 42	18°36'11"	7°10'38"	9°3'	17°55'	17°9'	28°1'	4°38'	23°19'	24°50'	3°36'	21°7'	21°13'	11°5'	23°35'
S 10	7 17 39	19°37'20"	20°28'	8°5'	19°10'	16°53'	28°14'	4°38'	23°21'	24°52'	3°38'	21°7'	21°10'	11°11'	23°39'
M 11	7 21 36	20°38'30"	3°12'2	7°15'	20°26'	16°37'	28°27'	4°39'	23°23'	24°54'	3°40'	21°D 7	21°6'	11°18'	23°43'
T 12	7 25 32	21°39'39"	15°23'	6°36'	21°41'	16°19'	28°40'	4°39'	23°25'	24°56'	3°42'	21°7'	21°3'	11°25'	23°46'
W 13	7 29 29	22°40'48"	27°32'	6°6'	22°57'	16°1'	28°53'	4°39'	23°27'	24°58'	3°44'	21°7'	21°0'	11°31'	23°50'
T 14	7 33 25	23°41'57"	9°33'3	5°46'	24°12'	15°42'	29°6'	4°R39	23°29'	25°0'	3°46'	21°7'	20°57'	11°38'	23°54'
F 15	7 37 22	24°43'05"	21°28'	5°35'	25°28'	15°23'	29°19'	4°39'	23°31'	25°2'	3°48'	21°R 7	20°54'	11°45'	23°58'
S 16	7 41 18	25°44'13"	3°11'9	5°D34	26°43'	15°3'	29°32'	4°39'	23°33'	25°4'	3°50'	21°7'	20°50'	11°51'	24°2'
S 17	7 45 15	26°45'20"	15°7'	5°40'	27°59'	14°43'	29°45'	4°39'	23°35'	25°6'	3°52'	21°7'	20°47'	11°58'	24°6'
M 18	7 49 12	27°46'27"	26°54'	5°54'	29°14'	14°22'	29°59'	4°38'	23°38'	25°8'	3°54'	21°6'	20°44'	12°4'	24°9'
T 19	7 53 8	28°47'33"	8°14'5	6°16'	0°30'	14°0'	0°12'	4°38'	23°40'	25°10'	3°56'	21°5'	20°41'	12°11'	24°13'
W 20	7 57 5	29°48'39"	20°40'	6°43'	1°45'	13°38'	0°26'	4°37'	23°42'	25°12'	3°58'	21°4'	20°38'	12°18'	24°17'
T 21	8 1 1	0°49'43"	2°14'4	7°17'	3°0'	13°16'	0°39'	4°36'	23°44'	25°14'	4°0'	21°2'	20°35'	12°24'	24°21'
F 22	8 4 58	1°50'47"	15°0'	7°55'	4°16'	12°53'	0°53'	4°35'	23°47'	25°16'	4°2'	21°1'	20°31'	12°31'	24°25'
S 23	8 8 54	2°51'50"	27°32'	8°39'	5°31'	12°30'	1°6'	4°34'	23°49'	25°18'	4°4'	21°D 1	20°28'	12°38'	24°29'
S 24	8 12 51	3°52'51"	10°32'4	9°27'	6°47'	12°7'	1°20'	4°33'	23°52'	25°20'	4°6'	21°1'	20°25'	12°44'	24°33'
M 25	8 16 47	4°53'52"	23°24'	10°19'	8°2'	11°43'	1°34'	4°32'	23°54'	25°23'	4°8'	21°1'	20°22'	12°51'	24°37'
T 26	8 20 44	5°54'52"	7°12'2	11°14'	9°17'	11°19'	1°47'	4°31'	23°57'	25°25'	4°10'	21°3'	20°19'	12°58'	24°42'
W 27	8 24 41	6°55'51"	21°32'	12°12'	10°33'	10°56'	2°1'	4°29'	23°59'	25°27'	4°12'	21°4'	20°16'	13°4'	24°46'
T 28	8 28 37	7°56'48"	6°12'3	13°13'	11°48'	10°32'	2°15'	4°28'	24°2'	25°29'	4°14'	21°5'	20°12'	13°11'	24°50'
F 29	8 32 34	8°57'45"	21°3'	14°17'	13°3'	10°8'	2°29'	4°26'	24°5'	25°31'	4°16'	21°R 5	20°9'	13°18'	24°54'
S 30	8 36 30	9°58'40"	6°12'4	15°24'	14°19'	9°44'	2°43'	4°25'	24°7'	25°33'	4°18'	21°5'	20°6'	13°24'	24°58'
S 31	8 40 27	10°59'35"	21°12'3	16°32'	15°34'	9°12'0	2°15'7	4°23'	24°10'	25°36'	4°20'	21°3'	20°3'	13°31'	25°2'

Delta T = 66.07 sec.

FEBRUARY 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	8 44 23	12°00'28"	6°10'42"	17°34'3	16°44'9	8°R56	3°11'	4°R21	24°13'	25°38'	4°21'	21°R 1	20°3'	13°38'	25°6'
T 2	8 48 20	13°1'21"	21°38'	18°55'	18°5'	8°R32	3°25'	4°19'	24°15'	25°40'	4°23'	20°35'8	19°56'	13°44'	25°10'
W 3	8 52 16	14°2'12"	6°12'	20°9'	19°20'	8°8'	3°39'	4°17'	24°18'	25°42'	4°25'	20°55'	19°53'	13°51'	25°15'
T 4	8 56 13	15°3'03"	20°20'	21°25'	20°35'	7°45'	3°53'	4°15'	24°21'	25°45'	4°27'	20°52'	19°50'	13°58'	25°19'
F 5	9 0 10	16°3'53"	3°10'59"	22°42'	21°51'	7°22'	4°7'	4°13'	24°24'	25°47'	4°29'	20°50'	19°47'	14°4'	25°23'
S 6	9 4 6	17°4'42"	17°10'	24°1'	23°6'	6°59'	4°21'	4°10'	24°27'	25°49'	4°30'	20°D50	19°44'	14°11'	25°27'
S 7	9 8 3	18°5'30"	29°58'	25°21'	24°21'	6°37'	4°35'	4°8'	24°30'	25°51'	4°32'	20°50'	19°41'	14°18'	25°31'
M 8	9 11 59	19°6'18"	12°12'26"	26°42'	25°36'	6°14'	4°49'	4°5'	24°32'	25°54'	4°34'	20°52'	19°37'	14°24'	25°36'
T 9	9 15 56	20°7'04"	24°37'	28°5'	26°51'	5°53'	5°4'	4°2'	24°35'	25°56'	4°35'	20°54'	19°34'	14°31'	25°40'
W 10	9 19 52	21°7'50"	6°33'7	29°28'	28°7'	5°32'	5°18'	4°0'	24°38'	25°58'	4°37'	20°55'	19°31'	14°38'	25°44'
T 11	9 23 49	22°8'34"	18°29'	0°53'3	29°22'	5°11'	5°32'	3°57'	24°41'	26°1'	4°39'	20°R56	19°28'	14°44'	25°48'
F 12	9 27 45	23°9'17"	0°18'18"	2°18'	0°13'7	4°51'	5°47'	3°54'	24°44'	26°3'	4°40'	20°56'	19°25'	14°51'	25°53'
S 13	9 31 42	24°9'59"	12°5'	3°45'	1°52'	4°31'	6°1'	3°51'	24°48'	26°5'	4°42'	20°53'	19°22'	14°58'	25°57'
S 14	9 35 39	25°10'39"	23°53'	5°13'	3°7'	4°12'	6°15'	3°48'	24°51'	26°7'	4°43'	20°50'	19°18'	15°4'	26°1'
M 15	9 39 35	26°11'18"	5°14'5	6°41'	4°23'	3°54'	6°30'	3°45'	24°54'	26°10'	4°45'	20°44'	19°15'	15°11'	26°5'
T 16	9 43 32	27°11'56"	17°42'	8°11'	5°38'	3°36'	6°44'	3°41'	24°57'	26°12'	4°46'	20°37'	19°12'	15°18'	26°10'
W 17	9 47 28	28°12'31"	29°45'	9°42'	6°53'	3°19'	6°58'	3°38'	25°0'	26°14'	4°48'	20°30'	19°9'	15°24'	26°14'
T 18	9 51 25	29°13'06"	11°15'56"	11°13'	8°8'	3°3'	7°13'	3°35'	25°3'	26°16'	4°49'	20°23'	19°6'	15°31'	26°18'
F 19	9 55 21	0°13'38"	24°18'	12°46'	9°23'	2°47'	7°27'	3°31'	25°6'	26°19'	4°51'	20°17'	19°2'	15°38'	26°22'
S 20	9 59 18	1°14'09"	6°15'3	14°19'	10°38'	2°32'	7°42'	3°28'	25°9'	26°21'	4°52'	20°12'	18°59'	15°44'	26°26'
S 21	10 3 14	2°14'38"	19°44'	15°53'	11°53'	2°18'	7°56'	3°24'	25°13'	26°23'	4°53'	20°9'	18°56'	15°51'	26°31'
M 22	10 7 11	3°15'05"	2°15'3	17°28'	13°8'	2°5'	8°11'	3°20'	25°16'	26°26'	4°55'	20°D 9	18°53'	15°58'	26°35'
T 23	10 11 8	4°15'31"	16°24'	19°5'	14°23'	1°52'	8°25'	3°16'	25°19'	26°28'	4°56'	20°9'	18°50'	16°4'	26°39'
W 24	10 15 4	5°15'54"	0°18'8	20°42'	15°38'	1°41'	8°40'	3°13'	25°22'	26°30'	4°57'	20°11'	18°47'	16°11'	26°43'
T 25	10 19 1	6°16'15"	14°37'	22°20'	16°53'	1°30'	8°54'	3°9'	25°26'	26°32'	4°59'	20°R12	18°43'	16°17'	26°48'
F 26	10 22 57	7°16'35"	29°18'	23°59'	18°8'	1°19'	9°9'	3°5'	25°29'	26°35'	5°0'	20°11'	18°40'	16°24'	26°52'
S 27	10 26 54	8°16'52"	14°12'7	25°39'	19°23'	1°10'	9°23'	3°1'	25°32'	26°37'	5°1'	20°9'	18°37'	16°31'	26°56'
S 28	10 30 50	9°17'08"	29°12'7	27°20'	20°13'8	1°1'	9°13'8	2°57'	25°13'6	26°39'	5°2'	20°3'	18°34'	16°37'	27°0'

Delta T = 66.09 sec.

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SWISS EPHEMERIS for the year 2010

MARCH 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	10 34 47	10°17'22	14°38'38	29°22'52	21°52'52	0°R54	9°52'52	2°R53	25°39'39	26°41'41	5°3'4	19°R58	18°31'31	16°44'44	27°22'22
T 2	10 38 43	11°17'34	29°41'41	0°45'45	23°7'7	0°L46	10°7'7	2°L48	25°42'42	26°44'44	5°5'5	19°S50	18°28'28	16°51'51	27°8'8
W 3	10 42 40	12°17'44	14°25'25	2°30'30	24°22'22	0°40'40	10°21'21	2°44'44	25°46'46	26°46'46	5°6'6	19°42'42	18°24'24	16°57'57	27°12'12
T 4	10 46 36	13°17'53	28°43'43	4°15'15	25°37'37	0°35'35	10°36'36	2°40'40	25°49'49	26°48'48	5°7'7	19°34'34	18°21'21	17°4'4	27°17'17
F 5	10 50 33	14°18'00	12°33'33	6°1'1	26°51'51	0°30'30	10°50'50	2°36'36	25°52'52	26°50'50	5°8'8	19°28'28	18°18'18	17°11'11	27°21'21
S 6	10 54 30	15°18'06	25°53'53	7°48'48	28°6'6	0°26'26	11°5'5	2°31'31	25°56'56	26°52'52	5°9'9	19°24'24	18°15'15	17°17'17	27°25'25
S 7	10 58 26	16°18'10	8°45'45	9°37'37	29°21'21	0°23'23	11°19'19	2°27'27	25°59'59	26°55'55	5°10'10	19°22'22	18°12'12	17°24'24	27°29'29
M 8	11 2 23	17°18'12	21°14'14	11°26'26	0°Y36	0°20'20	11°33'33	2°22'22	26°3'3	26°57'57	5°11'11	19°D21	18°8'8	17°31'31	27°33'33
T 9	11 6 19	18°18'13	3°25'25	13°17'17	1°50'50	0°19'19	11°48'48	2°18'18	26°6'6	26°59'59	5°12'12	19°22'22	18°5'5	17°37'37	27°37'37
W 10	11 10 16	19°18'13	15°22'22	15°9'9	3°5'5	0°18'18	12°2'2	2°13'13	26°9'9	27°1'1	5°13'13	19°R23	18°2'2	17°44'44	27°41'41
T 11	11 14 12	20°18'10	27°12'12	17°2'2	4°20'20	0°D18	12°17'17	2°9'9	26°13'13	27°3'3	5°14'14	19°23'23	17°59'59	17°51'51	27°45'45
F 12	11 18 9	21°18'06	8°58'58	18°56'56	5°34'34	0°18'18	12°31'31	2°4'4	26°16'16	27°5'5	5°14'14	19°20'20	17°56'56	17°57'57	27°49'49
S 13	11 22 6	22°18'00	20°46'46	20°51'51	6°49'49	0°20'20	12°46'46	2°0'0	26°20'20	27°7'7	5°15'15	19°16'16	17°53'53	18°4'4	27°53'53
S 14	11 26 2	23°17'53	2°37'37	22°46'46	8°3'3	0°22'22	13°0'0	1°55'55	26°23'23	27°10'10	5°16'16	19°8'8	17°49'49	18°11'11	27°57'57
M 15	11 29 59	24°17'43	14°35'35	24°43'43	9°18'18	0°24'24	13°14'14	1°50'50	26°26'26	27°12'12	5°17'17	18°59'59	17°46'46	18°17'17	28°1'1
T 16	11 33 55	25°17'32	26°41'41	26°41'41	10°32'32	0°28'28	13°29'29	1°46'46	26°30'30	27°14'14	5°17'17	18°47'47	17°43'43	18°24'24	28°4'4
W 17	11 37 52	26°17'18	8°Y56	28°40'40	11°47'47	0°32'32	13°43'43	1°41'41	26°33'33	27°16'16	5°18'18	18°34'34	17°40'40	18°31'31	28°8'8
T 18	11 41 48	27°17'03	21°22'22	0°Y39	13°1'1	0°37'37	13°57'57	1°36'36	26°37'37	27°18'18	5°19'19	18°21'21	17°37'37	18°37'37	28°12'12
F 19	11 45 45	28°16'45	3°S58	2°39'39	14°16'16	0°42'42	14°12'12	1°31'31	26°40'40	27°20'20	5°19'19	18°10'10	17°33'33	18°44'44	28°16'16
S 20	11 49 41	29°16'25	16°45'45	4°39'39	15°30'30	0°48'48	14°26'26	1°27'27	26°44'44	27°22'22	5°20'20	18°1'1	17°30'30	18°51'51	28°20'20
S 21	11 53 38	0°Y16'03	29°45'45	6°39'39	16°44'44	0°55'55	14°40'40	1°22'22	26°47'47	27°24'24	5°21'21	17°55'55	17°27'27	18°57'57	28°23'23
M 22	11 57 34	1°15'39	12°II58	8°39'39	17°59'59	1°2'2	14°54'54	1°17'17	26°50'50	27°26'26	5°21'21	17°51'51	17°24'24	19°4'4	28°27'27
T 23	12 1 31	2°15'13	26°26'26	10°39'39	19°13'13	1°10'10	15°9'9	1°13'13	26°54'54	27°28'28	5°22'22	17°50'50	17°21'21	19°11'11	28°31'31
W 24	12 5 28	3°14'44	10°S12	12°39'39	20°27'27	1°19'19	15°23'23	1°8'8	26°57'57	27°30'30	5°22'22	17°50'50	17°18'18	19°17'17	28°35'35
T 25	12 9 24	4°14'13	24°16'16	14°38'38	21°41'41	1°28'28	15°37'37	1°3'3	27°1'1	27°32'32	5°23'23	17°50'50	17°14'14	19°24'24	28°38'38
F 26	12 13 21	5°13'40	8°L38	16°35'35	22°55'55	1°38'38	15°51'51	0°58'58	27°4'4	27°34'34	5°23'23	17°49'49	17°11'11	19°31'31	28°42'42
S 27	12 17 17	6°13'04	23°15'15	18°31'31	24°10'10	1°48'48	16°5'5	0°54'54	27°8'8	27°35'35	5°23'23	17°45'45	17°8'8	19°37'37	28°45'45
S 28	12 21 14	7°12'26	8°M5	20°24'24	25°24'24	1°59'59	16°19'19	0°49'49	27°11'11	27°37'37	5°24'24	17°39'39	17°5'5	19°44'44	28°49'49
M 29	12 25 10	8°11'46	22°58'58	22°16'16	26°38'38	2°11'11	16°33'33	0°44'44	27°14'14	27°39'39	5°24'24	17°30'30	17°2'2	19°51'51	28°52'52
T 30	12 29 7	9°11'03	7°L48	24°4'4	27°52'52	2°23'23	16°47'47	0°40'40	27°18'18	27°41'41	5°24'24	17°19'19	16°59'59	19°57'57	28°56'56
W 31	12 33 3	10°Y10'19	22°L25	25°Y49	29°Y6	2°L35	17°H1	0°L35	27°H21	27°H43	5°L24	17°L7	16°L55	20°L4	28°H59

Delta T = 66.11 sec.

APRIL 2010

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 37 0	11°Y 9'32	6°M41	27°Y31	0°S20	2°L48	17°H15	0°R30	27°H24	27°H45	5°S25	16°R56	16°S52	20°H11	29°H3
F 2	12 40 57	12° 8'44	20°32	29° 9	1°34	3° 2	17°29	0°L26	27°28	27°46	5°25	16°S46	16°49	20°17	29° 6
S 3	12 44 53	13° 7'54	3°M56	0°S42	2°48	3°16	17°43	0°21	27°31	27°48	5°25	16°39	16°46	20°24	29° 9
S 4	12 48 50	14° 7'02	16°53	2°10	4° 1	3°30	17°56	0°17	27°34	27°50	5°25	16°35	16°43	20°31	29°13
M 5	12 52 46	15° 6'08	29°26	3°34	5°15	3°45	18°10	0°12	27°38	27°52	5°25	16°33	16°39	20°37	29°16
T 6	12 56 43	16° 5'13	11°S39	4°52	6°29	4° 1	18°24	0° 8	27°41	27°53	5°25	16°32	16°36	20°44	29°19
W 7	13 0 39	17° 4'16	23°39	6° 5	7°43	4°17	18°37	0° 3	27°44	27°55	5°R25	16°32	16°33	20°51	29°22
T 8	13 4 36	18° 3'17	5°S30	7°11	8°57	4°33	18°51	29°M59	27°48	27°57	5°25	16°31	16°30	20°57	29°25
F 9	13 8 32	19° 2'16	17°17	8°12	10°10	4°50	19° 4	29°55	27°51	27°58	5°25	16°29	16°27	21° 4	29°28
S 10	13 12 29	20° 1'13	29° 7	9° 7	11°24	5° 7	19°18	29°50	27°54	28° 0	5°25	16°24	16°24	21°11	29°31
S 11	13 16 26	21° 0'09	11°H 2	9°56	12°38	5°24	19°31	29°46	27°57	28° 1	5°25	16°16	16°20	21°17	29°34
M 12	13 20 22	21°59'02	23° 7	10°38	13°51	5°42	19°45	29°42	28° 1	28° 3	5°25	16° 6	16°17	21°24	29°37
T 13	13 24 19	22°57'54	5°Y23	11°14	15° 5	6° 1	19°58	29°38	28° 4	28° 4	5°25	15°54	16°14	21°31	29°40
W 14	13 28 15	23°56'44	17°52	11°44	16°18	6°19	20°11	29°34	28° 7	28° 6	5°24	15°40	16°11	21°37	29°43
T 15	13 32 12	24°55'32	0°S35	12° 7	17°32	6°39	20°25	29°30	28°10	28° 7	5°24	15°27	16° 8	21°44	29°46
F 16	13 36 8	25°54'18	13°30	12°23	18°45	6°58	20°38	29°26	28°13	28° 9	5°24	15°15	16° 4	21°51	29°49
S 17	13 40 5	26°53'02	26°37	12°34	19°59	7°18	20°51	29°22	28°16	28°10	5°24	15° 5	16° 1	21°57	29°51
S 18	13 44 1	27°51'44	9°II55	12°R38	21°12	7°38	21° 4	29°18	28°19	28°11	5°23	14°58	15°58	22° 4	29°54
M 19	13 47 58	28°50'24	23°24	12°36	22°25	7°59	21°17	29°14	28°23	28°13	5°23	14°54	15°55	22°11	29°57
T 20	13 51 55	29°49'01	7°S 3	12°28	23°39	8°20	21°30	29°10	28°26	28°14	5°23	14°53	15°52	22°17	29°59
W 21	13 55 51	0°S47'37	20°52	12°15	24°52	8°41	21°43	29° 7	28°29	28°15	5°22	14°D53	15°49	22°24	0°H 2
T 22	13 59 48	1°46'10	4°L52	11°56	26° 5	9° 3	21°55	29° 3	28°32	28°17	5°22	14°R53	15°45	22°31	0° 4
F 23	14 3 44	2°44'41	19° 2	11°33	27°18	9°24	22° 8	29° 0	28°35	28°18	5°21	14°52	15°42	22°37	0° 7
S 24	14 7 41	3°43'09	3°M21	11° 5	28°31	9°47	22°21	28°56	28°38	28°19	5°21	14°49	15°39	22°44	0° 9
S 25	14 11 37	4°41'36	17°47	10°34	29°45	10° 9	22°33	28°53	28°41	28°20	5°20	14°43	15°36	22°51	0°11
M 26	14 15 34	5°40'00	2°L15	10° 0	0°II58	10°32	22°46	28°49	28°43	28°21	5°20	14°35	15°33	22°58	0°14
T 27	14 19 30	6°38'22	16°39	9°23	2°11	10°55	22°58	28°46	28°46	28°23	5°19	14°26	15°30	23° 4	0°16
W 28	14 23 27	7°36'43	0°M54	8°45	3°23	11°18	23°10	28°43	28°49	28°24	5°18	14°15	15°26	23°11	0°18
T 29	14 27 23	8°35'01	14°53	8° 5	4°36	11°42	23°23	28°40	28°52	28°25	5°18	14° 5	15°23	23°18	0°20
F 30	14 31 20	9°S33'18	28°M33	7°S26	5°II49	12°L 6	23°H35	28°M37	28°H55	28°H26	5°S17	13°S56	15°S20	23°H24	0°H22

SWISS EPHEMERIS for the year 2010

MAY 2010

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	14 35 17	10♈31'34	11♌50	6°R46	7♏ 2	12♏30	23♈47	28°R34	28♈58	28♈27	5°R16	13°R50	15♌17	23♈31	0♈24
S 2	14 39 13	11°29'47	24°44	6♌ 8	8°15	12°55	23°59	28♏31	29° 0	28°28	5♌16	13♌46	15°14	23°38	0°26
M 3	14 43 10	12°27'59	7♌17	5°32	9°28	13°19	24°11	28°28	29° 3	28°29	5°15	13°44	15°10	23°44	0°28
T 4	14 47 6	13°26'10	19°32	4°58	10°40	13°44	24°23	28°26	29° 6	28°30	5°14	13°D44	15° 7	23°51	0°30
W 5	14 51 3	14°24'19	1♈34	4°27	11°53	14° 9	24°35	28°23	29° 8	28°30	5°13	13°45	15° 4	23°58	0°32
T 6	14 54 59	15°22'26	13°27	3°59	13° 5	14°35	24°46	28°21	29°11	28°31	5°13	13°R45	15° 1	24° 4	0°34
F 7	14 58 56	16°20'32	25°17	3°35	14°18	15° 1	24°58	28°18	29°14	28°32	5°12	13°45	14°58	24°11	0°35
S 8	15 2 53	17°18'37	7♈ 9	3°15	15°30	15°26	25° 9	28°16	29°16	28°33	5°11	13°43	14°55	24°18	0°37
S 9	15 6 49	18°16'40	19° 7	3° 0	16°43	15°53	25°21	28°14	29°19	28°34	5°10	13°38	14°51	24°24	0°39
M10	15 10 46	19°14'42	1♏17	2°48	17°55	16°19	25°32	28°12	29°21	28°34	5° 9	13°32	14°48	24°31	0°40
T11	15 14 42	20°12'43	13°41	2°42	19° 8	16°45	25°43	28°10	29°24	28°35	5° 8	13°24	14°45	24°38	0°42
W12	15 18 39	21°10'42	26°21	2°D40	20°20	17°12	25°55	28° 8	29°26	28°36	5° 7	13°15	14°42	24°44	0°43
T13	15 22 35	22° 8'39	9♌19	2°42	21°32	17°39	26° 6	28° 6	29°28	28°36	5° 6	13° 6	14°39	24°51	0°45
F14	15 26 32	23° 6'36	22°33	2°49	22°44	18° 6	26°17	28° 4	29°31	28°37	5° 5	12°57	14°36	24°58	0°46
S15	15 30 28	24° 4'31	6♏ 3	3° 1	23°57	18°34	26°27	28° 3	29°33	28°38	5° 4	12°51	14°32	25° 4	0°47
S16	15 34 25	25° 2'24	19°45	3°18	25° 9	19° 1	26°38	28° 1	29°35	28°38	5° 3	12°46	14°29	25°11	0°48
M17	15 38 22	26° 0'16	3♌37	3°39	26°21	19°29	26°49	28° 0	29°38	28°39	5° 2	12°44	14°26	25°18	0°49
T18	15 42 18	26°58'06	17°37	4° 4	27°33	19°57	26°59	27°58	29°40	28°39	5° 1	12°D44	14°23	25°24	0°50
W19	15 46 15	27°55'54	1♌42	4°33	28°45	20°25	27°10	27°57	29°42	28°39	5° 0	12°45	14°20	25°31	0°51
T20	15 50 11	28°53'41	15°51	5° 6	29°57	20°54	27°20	27°56	29°44	28°40	4°58	12°46	14°16	25°38	0°52
F21	15 54 8	29°51'25	0♏ 1	5°44	1♌ 9	21°22	27°30	27°55	29°46	28°40	4°57	12°R47	14°13	25°44	0°53
S22	15 58 4	0♏49'09	14°11	6°25	2°20	21°51	27°41	27°54	29°48	28°41	4°56	12°46	14°10	25°51	0°54
S23	16 2 1	1°46'50	28°20	7°10	3°32	22°20	27°51	27°53	29°50	28°41	4°55	12°43	14° 7	25°58	0°55
M24	16 5 57	2°44'30	12♌25	7°58	4°44	22°49	28° 0	27°52	29°52	28°41	4°54	12°39	14° 4	26° 4	0°56
T25	16 9 54	3°42'09	26°22	8°50	5°55	23°18	28°10	27°52	29°54	28°41	4°52	12°34	14° 1	26°11	0°56
W26	16 13 51	4°39'46	10♏10	9°46	7° 7	23°48	28°20	27°51	29°56	28°42	4°51	12°28	13°57	26°18	0°57
T27	16 17 47	5°37'22	23°44	10°44	8°18	24°17	28°29	27°51	29°58	28°42	4°50	12°22	13°54	26°25	0°57
F28	16 21 44	6°34'56	7♈ 2	11°46	9°30	24°47	28°39	27°50	0♏ 0	28°42	4°49	12°17	13°51	26°31	0°58
S29	16 25 40	7°32'30	20° 3	12°51	10°41	25°17	28°48	27°50	0° 2	28°42	4°47	12°14	13°48	26°38	0°58
S30	16 29 37	8°30'02	2♌46	13°59	11°53	25°47	28°57	27°50	0° 3	28°42	4°46	12°12	13°45	26°45	0°59
M31	16 33 33	9♏27'33	15♌13	15♌11	13♌ 4	26♏17	29♈ 6	27°D50	0♏ 5	28♈42	4♌45	12°D11	13♌42	26♈51	0♈59

Delta T = 66.15 sec.

JUNE 2010

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	16 37 30	10♏25'04	27♌25	16♌25	14♌15	26♏47	29♈15	27♏50	0♏ 7	28°R42	4°R43	12♌12	13♌38	26♈58	0♈59
W 2	16 41 26	11°22'33	9♈26	17°41	15°26	27°18	29°24	27°50	0° 8	28♈42	4♌42	12°14	13°35	27° 5	0°59
T 3	16 45 23	12°20'02	21°20	19° 1	16°37	27°48	29°33	27°50	0°10	28°42	4°41	12°15	13°32	27°11	0°59
F 4	16 49 20	13°17'30	3♈11	20°24	17°48	28°19	29°41	27°51	0°11	28°42	4°39	12°17	13°29	27°18	0°R59
S 5	16 53 16	14°14'57	15° 4	21°49	18°59	28°50	29°50	27°51	0°13	28°42	4°38	12°R17	13°26	27°25	0°59
S 6	16 57 13	15°12'23	27° 4	23°17	20°10	29°21	29°58	27°52	0°14	28°42	4°36	12°17	13°22	27°31	0°59
M 7	17 1 9	16° 9'49	9♏15	24°48	21°21	29°52	0♏ 6	27°53	0°16	28°42	4°35	12°15	13°19	27°38	0°59
T 8	17 5 6	17° 7'14	21°42	26°21	22°31	0♏23	0°14	27°53	0°17	28°41	4°33	12°12	13°16	27°45	0°59
W 9	17 9 2	18° 4'39	4♌28	27°57	23°42	0°55	0°22	27°54	0°18	28°41	4°32	12° 9	13°13	27°51	0°59
T10	17 12 59	19° 2'03	17°34	29°36	24°53	1°26	0°29	27°55	0°20	28°41	4°31	12° 5	13°10	27°58	0°58
F11	17 16 55	19°59'26	1♏ 2	1♏18	26° 3	1°58	0°37	27°56	0°21	28°40	4°29	12° 2	13° 7	28° 5	0°58
S12	17 20 52	20°56'49	14°50	3° 2	27°14	2°30	0°44	27°58	0°22	28°40	4°28	11°59	13° 3	28°11	0°58
S13	17 24 49	21°54'11	28°55	4°48	28°24	3° 2	0°52	27°59	0°23	28°40	4°26	11°58	13° 0	28°18	0°57
M14	17 28 45	22°51'33	13♌13	6°38	29°34	3°34	0°59	28° 0	0°24	28°39	4°25	11°D58	12°57	28°25	0°57
T15	17 32 42	23°48'53	27°39	8°30	0♏44	4° 6	1° 6	28° 2	0°25	28°39	4°23	11°58	12°54	28°32	0°56
W16	17 36 38	24°46'13	12♏ 8	10°24	1°54	4°38	1°13	28° 3	0°26	28°38	4°22	11°59	12°51	28°38	0°55
T17	17 40 35	25°43'32	26°35	12°20	3° 5	5°11	1°19	28° 5	0°27	28°38	4°20	12° 0	12°48	28°45	0°55
F18	17 44 31	26°40'49	10♏57	14°19	4°14	5°43	1°26	28° 7	0°28	28°37	4°19	12° 1	12°44	28°52	0°54
S19	17 48 28	27°38'06	25°10	16°20	5°24	6°16	1°32	28° 9	0°29	28°37	4°17	12°R 2	12°41	28°58	0°53
S20	17 52 24	28°35'23	9♌13	18°24	6°34	6°49	1°38	28°11	0°30	28°36	4°16	12° 1	12°38	29° 5	0°52
M21	17 56 21	29°32'38	23° 2	20°29	7°44	7°22	1°44	28°13	0°30	28°36	4°14	12° 1	12°35	29°12	0°51
T22	18 0 18	0♏29'53	6♏39	22°35	8°53	7°55	1°50	28°15	0°31	28°35	4°12	11°59	12°32	29°18	0°50
W23	18 4 14	1°27'07	20° 2	24°43	10° 3	8°28	1°56	28°17	0°32	28°34	4°11	11°58	12°28	29°25	0°49
T24	18 8 11	2°24'20	3♈10	26°53	11°12	9° 1	2° 1	28°20	0°32	28°34	4° 9	11°57	12°25	29°32	0°48
F25	18 12 7	3°21'33	16° 5	29° 3	12°21	9°34	2° 7	28°22	0°33	28°33	4° 8	11°56	12°22	29°38	0°47
S26	18 16 4	4°18'46	28°46	1♌13	13°31	10° 8	2°12	28°25	0°33	28°32	4° 6	11°55	12°19	29°45	0°46
S27	18 20 0	5°15'58	11♌14	3°25	14°40	10°41	2°17	28°27	0°34	28°31	4° 5	11°D55	12°16	29°52	0°44
M28	18 23 57	6°13'10	23°30	5°36	15°49	11°15	2°22	28°30	0°34	28°30	4° 3	11°55	12°13	29°58	0°43
T29	18 27 53	7°10'22	5♈36	7°47	16°58	11°48	2°27	28°33	0°34	28°30	4° 2	11°56	12° 9	0♈ 5	0°42
W30	18 31 50	8♌ 7'34	17♈33	9♌57	18♏ 6	12♏22	2♏31	28♏36	0♏35	28♈29	4♌ 0	11♌56	12♌ 6	0♈12	0°40

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SWISS EPHEMERIS for the year 2010

JULY 2010

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	18 35 47	9°46'	29°26'	12°07'	19°15'	12°56'	2°35'	28°39'	0°35'	28°R28	3°R59	11°56'	12°03'	0°19'	0°R39
F 2	18 39 43	10° 1'57	11°16'	14°16'	20°24'	13°30'	2°40'	28°42'	0°35'	28°27'	3°57'	11°57'	12° 0'	0°25'	0°R37
S 3	18 43 40	10°59'09	23° 9'	16°24'	21°32'	14° 4'	2°44'	28°45'	0°35'	28°26'	3°56'	11°57'	11°57'	0°32'	0°35'
S 4	18 47 36	11°56'21	5° 9'	18°31'	22°40'	14°39'	2°47'	28°48'	0°35'	28°25'	3°54'	11°57'	11°54'	0°39'	0°34'
M 5	18 51 33	12°53'34	17°19'	20°36'	23°48'	15°13'	2°51'	28°52'	0°35'	28°24'	3°53'	11°57'	11°50'	0°45'	0°32'
T 6	18 55 29	13°50'46	29°45'	22°39'	24°57'	15°47'	2°54'	28°55'	0°R35	28°23'	3°51'	11°57'	11°47'	0°52'	0°30'
W 7	18 59 26	14°47'59	12°30'	24°41'	26° 4'	16°22'	2°58'	28°59'	0°35'	28°22'	3°50'	11°57'	11°44'	0°59'	0°28'
T 8	19 3 22	15°45'12	25°37'	26°41'	27°12'	16°56'	3° 1'	29° 2'	0°35'	28°21'	3°48'	11°57'	11°41'	1° 5'	0°27'
F 9	19 7 19	16°42'26	9°11'	28°40'	28°20'	17°31'	3° 4'	29° 6'	0°35'	28°20'	3°47'	11°58'	11°38'	1°12'	0°25'
S 10	19 11 16	17°39'40	23° 6'	0°03'36	29°28'	18° 6'	3° 6'	29°10'	0°35'	28°19'	3°45'	11°58'	11°34'	1°19'	0°23'
S 11	19 15 12	18°36'54	7°25'	2°31'	0°03'35	18°41'	3° 9'	29°14'	0°35'	28°17'	3°44'	11°R58	11°31'	1°25'	0°21'
M 12	19 19 9	19°34'09	22° 3'	4°24'	1°42'	19°16'	3°11'	29°18'	0°35'	28°16'	3°42'	11°58'	11°28'	1°32'	0°19'
T 13	19 23 5	20°31'23	6°05'34	6°15'	2°50'	19°51'	3°13'	29°22'	0°34'	28°15'	3°41'	11°58'	11°25'	1°39'	0°17'
W 14	19 27 2	21°28'38	21°47'	8° 4'	3°57'	20°26'	3°15'	29°26'	0°34'	28°14'	3°39'	11°57'	11°22'	1°45'	0°15'
T 15	19 30 58	22°25'53	6°03'38	9°51'	5° 3'	21° 1'	3°17'	29°30'	0°33'	28°13'	3°38'	11°56'	11°19'	1°52'	0°12'
F 16	19 34 55	23°23'08	21°19'	11°36'	6°10'	21°37'	3°19'	29°34'	0°33'	28°11'	3°36'	11°55'	11°15'	1°59'	0°10'
S 17	19 38 52	24°20'23	5°44'	13°19'	7°17'	22°12'	3°20'	29°39'	0°32'	28°10'	3°35'	11°54'	11°12'	2° 6'	0° 8'
S 18	19 42 48	25°17'38	19°49'	15° 0'	8°23'	22°48'	3°21'	29°43'	0°32'	28° 9'	3°34'	11°D53	11° 9'	2°12'	0° 6'
M 19	19 46 45	26°14'53	3°03'35	16°40'	9°29'	23°23'	3°22'	29°48'	0°31'	28° 8'	3°32'	11°53'	11° 6'	2°19'	0° 3'
T 20	19 50 41	27°12'08	17° 0'	18°17'	10°35'	23°59'	3°23'	29°52'	0°31'	28° 6'	3°31'	11°54'	11° 3'	2°26'	0° 1'
W 21	19 54 38	28° 9'24	0°03'36	19°53'	11°41'	24°35'	3°24'	29°57'	0°30'	28° 5'	3°29'	11°55'	11° 0'	2°32'	29°59'
T 22	19 58 34	29° 6'40	12°56'	21°26'	12°47'	25°11'	3°24'	0°03'36	0°29'	28° 4'	3°28'	11°56'	10°56'	2°39'	29°56'
F 23	20 2 31	0°03'36	25°31'	22°58'	13°53'	25°47'	3°24'	0° 7'	0°28'	28° 2'	3°27'	11°58'	10°53'	2°46'	29°54'
S 24	20 6 27	1° 1'12	7°03'54	24°28'	14°58'	26°23'	3°R24	0°11'	0°28'	28° 1'	3°25'	11°R58	10°50'	2°52'	29°51'
S 25	20 10 24	1°58'29	2° 7'	25°56'	16° 3'	26°59'	3°24'	0°16'	0°27'	27°59'	3°24'	11°58'	10°47'	2°59'	29°49'
M 26	20 14 21	2°55'47	2°03'11	27°22'	17° 8'	27°35'	3°24'	0°21'	0°26'	27°58'	3°23'	11°57'	10°44'	3° 6'	29°46'
T 27	20 18 17	3°53'05	14° 9'	28°46'	18°13'	28°11'	3°23'	0°26'	0°25'	27°56'	3°22'	11°55'	10°40'	3°13'	29°43'
W 28	20 22 14	4°50'24	26° 3'	0°03'38	19°17'	28°47'	3°22'	0°32'	0°24'	27°55'	3°20'	11°51'	10°37'	3°19'	29°41'
T 29	20 26 10	5°47'44	7°05'54	1°28'	20°22'	29°24'	3°21'	0°37'	0°23'	27°53'	3°19'	11°48'	10°34'	3°26'	29°38'
F 30	20 30 7	6°45'05	19°45'	2°45'	21°26'	0°03'36	3°20'	0°42'	0°22'	27°52'	3°18'	11°44'	10°31'	3°33'	29°35'
S 31	20 34 3	7°02'26	1°03'39	4°03'19	22°03'30	0°03'37	3°19'	0°48'	0°20'	27°50'	3°17'	11°40'	10°28'	3°39'	29°33'

Delta T = 66.19 sec.

AUGUST 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	20 38 0	8°03'39'49	13°03'38	5°03'14	23°03'33	1°03'14	3°R17	0°03'53	0°R19	27°R49	3°R15	11°R37	10°03'25	3°03'46	29°R30
M 2	20 41 56	9°37'12	25°47'	6°25'	24°37'	1°50'	3°R15	0°58'	0°R18	27°47'	3°14'	11°03'34	10°21'	3°53'	29°27'
T 3	20 45 53	10°34'37	8°03'10	7°34'	25°40'	2°27'	3°13'	1° 4'	0°17'	27°46'	3°13'	11°D34	10°18'	3°59'	29°24'
W 4	20 49 50	11°32'03	20°51'	8°41'	26°43'	3° 4'	3°11'	1°10'	0°15'	27°44'	3°12'	11°34'	10°15'	4° 6'	29°22'
T 5	20 53 46	12°29'31	3°03'54	9°44'	27°46'	3°41'	3° 9'	1°15'	0°14'	27°43'	3°11'	11°35'	10°12'	4°13'	29°19'
F 6	20 57 43	13°26'59	17°22'	10°46'	28°48'	4°18'	3° 6'	1°21'	0°13'	27°41'	3°10'	11°37'	10° 9'	4°19'	29°16'
S 7	21 1 39	14°24'29	1°03'16	11°44'	29°50'	4°55'	3° 4'	1°27'	0°11'	27°40'	3° 9'	11°38'	10° 6'	4°26'	29°13'
S 8	21 5 36	15°22'00	15°38'	12°40'	0°03'52	5°32'	3° 1'	1°33'	0°10'	27°38'	3° 8'	11°R38	10° 2'	4°33'	29°10'
M 9	21 9 32	16°19'33	0°03'23	13°32'	1°54'	6°10'	2°57'	1°38'	0° 8'	27°36'	3° 7'	11°37'	9°59'	4°40'	29° 7'
T 10	21 13 29	17°17'06	15°26'	14°22'	2°55'	6°47'	2°54'	1°44'	0° 7'	27°35'	3° 6'	11°34'	9°56'	4°46'	29° 4'
W 11	21 17 25	18°14'40	0°03'38	15° 8'	3°56'	7°25'	2°51'	1°50'	0° 5'	27°33'	3° 5'	11°30'	9°53'	4°53'	29° 1'
T 12	21 21 22	19°12'16	15°48'	15°50'	4°57'	8° 2'	2°47'	1°56'	0° 4'	27°32'	3° 4'	11°25'	9°50'	5° 0'	28°58'
F 13	21 25 19	20° 9'52	0°03'48	16°29'	5°57'	8°40'	2°43'	2° 3'	0° 2'	27°30'	3° 3'	11°19'	9°46'	5° 6'	28°56'
S 14	21 29 15	21° 7'30	15°29'	17° 5'	6°57'	9°18'	2°39'	2° 9'	0° 0'	27°28'	3° 2'	11°14'	9°43'	5°13'	28°53'
S 15	21 33 12	22° 5'08	29°45'	17°36'	7°57'	9°55'	2°35'	2°15'	29°R59	27°27'	3° 1'	11°11'	9°40'	5°20'	28°50'
M 16	21 37 8	23° 2'47	13°03'34	18° 2'	8°56'	10°33'	2°31'	2°21'	29°57'	27°25'	3° 0'	11° 9'	9°37'	5°26'	28°47'
T 17	21 41 5	24° 0'28	26°57'	18°24'	9°55'	11°11'	2°26'	2°27'	29°55'	27°24'	2°59'	11°D 8	9°34'	5°33'	28°44'
W 18	21 45 1	24°58'09	9°03'57	18°42'	10°54'	11°49'	2°21'	2°34'	29°53'	27°22'	2°59'	11° 9'	9°31'	5°40'	28°41'
T 19	21 48 58	25°55'52	22°36'	18°54'	11°52'	12°27'	2°16'	2°40'	29°51'	27°20'	2°58'	11°10'	9°27'	5°47'	28°38'
F 20	21 52 54	26°53'35	4°03'59	19° 2'	12°50'	13° 5'	2°11'	2°47'	29°49'	27°19'	2°57'	11°R11	9°24'	5°53'	28°35'
S 21	21 56 51	27°51'20	17°10'	19°R 3	13°48'	13°43'	2° 6'	2°53'	29°48'	27°17'	2°56'	11°11'	9°21'	6° 0'	28°32'
S 22	22 0 48	28°49'06	29°11'	19° 0'	14°45'	14°22'	2° 1'	3° 0'	29°46'	27°15'	2°56'	11°10'	9°18'	6° 7'	28°29'
M 23	22 4 44	29°46'53	11°03'37	18°50'	15°41'	15° 0'	1°55'	3° 6'	29°44'	27°14'	2°55'	11° 6'	9°15'	6°13'	28°26'
T 24	22 8 41	0°03'44'41	23° 0'	18°35'	16°37'	15°39'	1°50'	3°13'	29°42'	27°12'	2°54'	11° 0'	9°12'	6°20'	28°23'
W 25	22 12 37	1°42'31	4°03'51	18°14'	17°33'	16°17'	1°44'	3°20'	29°40'	27°10'	2°54'	10°52'	9° 8'	6°27'	28°20'
T 26	22 16 34	2°40'22	16°42'	17°46'	18°28'	16°56'	1°38'	3°26'	29°38'	27° 9'	2°53'	10°42'	9° 5'	6°33'	28°17'
F 27	22 20 30	3°38'15	28°36'	17°14'	19°22'	17°34'	1°32'	3°33'	29°36'	27° 7'	2°52'	10°32'	9° 2'	6°40'	28°14'
S 28	22 24 27	4°36'09	10°03'33	16°36'	20°16'	18°13'	1°25'	3°40'	29°33'	27° 6'	2°52'	10°22'	8°59'	6°47'	28°11'
S 29	22 28 23	5°34'05	22°36'	15°52'	21°10'	18°52'	1°19'	3°47'	29°31'	27° 4'	2°51'	10°14'	8°56'	6°54'	28° 8'
M 30	22 32 20	6°32'03	4°03'48	15° 5'	22° 3'	19°31'	1°13'	3°53'	29°29'	27° 2'	2°51'	10° 7'	8°52'	7° 0'	28° 5'
T 31	22 36 16	7°03'03	17°03'11	14°03'13	22°03'55	20°03' 9	1° 6'	4°03' 0	29°R27	27° 1'	2°51'	10° 3'	8°49'	7° 7'	28° 2'

Delta T = 66.22 sec.

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SWISS EPHEMERIS for the year 2010

SEPTEMBER 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	22 40 13	8 ^h 28'05"	29 ^h 50'	13°R19	23 ^h 47'	20 ^h 49'	0°R59	4 ^h 7'	29°R25	26°R59	2°R50	10°R 1	8 ^h 46'	7 ^h 14'	27°R59
T 2	22 44 10	9°26'08"	12 ^h 47'	12 ^h 22'	24°38'	21°28'	0°V52	4°14'	29°R23	26°R57	2°R50	10°D 0	8°43'	7°20'	27°R56
F 3	22 48 6	10°24'14"	26° 7'	11°25'	25°28'	22° 7'	0°45'	4°21'	29°20'	26°56'	2°49'	10°R 1	8°40'	7°27'	27°53
S 4	22 52 3	11°22'22"	9 ^h 53'	10°28'	26°18'	22°46'	0°38'	4°28'	29°18'	26°54'	2°49'	10°R 1	8°37'	7°34'	27°50
S 5	22 55 59	12°20'31"	24° 6'	9°32'	27° 7'	23°25'	0°31'	4°35'	29°16'	26°53'	2°49'	10° 1	8°33'	7°40'	27°47
M 6	22 59 56	13°18'43"	8 ^h 45'	8°40'	27°55'	24° 5'	0°24'	4°42'	29°14'	26°51'	2°48'	9°58'	8°30'	7°47'	27°44
T 7	23 3 52	14°16'56"	23°45'	7°51'	28°43'	24°44'	0°17'	4°49'	29°11'	26°50'	2°48'	9°53'	8°27'	7°54'	27°41
W 8	23 7 49	15°15'11"	8 ^h 59'	7° 8'	29°30'	25°24'	0° 9'	4°56'	29° 9'	26°48'	2°48'	9°45'	8°24'	8° 1'	27°39
T 9	23 11 45	16°13'28"	24°17'	6°31'	0 ^h 16'	26° 3'	0° 2'	5° 3'	29° 7'	26°47'	2°48'	9°35'	8°21'	8° 7'	27°36
F 10	23 15 42	17°11'47"	9 ^h 27'	6° 1'	1° 1'	26°43'	29°R54	5°11'	29° 4'	26°45'	2°48'	9°25'	8°17'	8°14'	27°33
S 11	23 19 39	18°10'07"	24°19'	5°39'	1°45'	27°23'	29°46'	5°18'	29° 2'	26°44'	2°48'	9°16'	8°14'	8°21'	27°30
S 12	23 23 35	19° 8'29"	8 ^h 46'	5°26'	2°28'	28° 2'	29°39'	5°25'	29° 0'	26°42'	2°47'	9° 9'	8°11'	8°27'	27°27
M13	23 27 32	20° 6'52"	22°43'	5°D22	3°11'	28°42'	29°31'	5°32'	28°57'	26°41'	2°47'	9° 4'	8° 8'	8°34'	27°25
T 14	23 31 28	21° 5'18"	6 ^h 11'	5°27'	3°52'	29°22'	29°23'	5°39'	28°55'	26°39'	2°D47	9° 1'	8° 5'	8°41'	27°22
W15	23 35 25	22° 3'44"	19°12'	5°41'	4°32'	0 ^h 12'	29°15'	5°47'	28°53'	26°38'	2°47'	9°D 0	8° 2'	8°47'	27°19
T 16	23 39 21	23° 2'13"	1 ^h 34'	6° 5'	5°12'	0°42'	29° 7'	5°54'	28°50'	26°36'	2°47'	9° 0'	7°58'	8°54'	27°17
F 17	23 43 18	24° 0'43"	14° 8'	6°37'	5°50'	1°23'	28°59'	6° 1'	28°48'	26°35'	2°48'	9°R 0	7°55'	9° 1'	27°14
S 18	23 47 14	24°59'14"	26°13'	7°18'	6°27'	2° 3'	28°51'	6° 9'	28°45'	26°33'	2°48'	8°59'	7°52'	9° 8'	27°12
S 19	23 51 11	25°57'48"	8 ^h 9'	8° 8'	7° 2'	2°43'	28°43'	6°16'	28°43'	26°32'	2°48'	8°55'	7°49'	9°14'	27° 9
M20	23 55 8	26°56'22"	20° 1'	9° 5'	7°37'	3°23'	28°35'	6°23'	28°41'	26°31'	2°48'	8°49'	7°46'	9°21'	27° 7
T 21	23 59 4	27°54'59"	1 ^h 51'	10°10'	8°10'	4° 4'	28°27'	6°31'	28°38'	26°29'	2°48'	8°41'	7°43'	9°28'	27° 4
W22	0 3 1	28°53'37"	13°43'	11°21'	8°41'	4°44'	28°19'	6°38'	28°36'	26°28'	2°48'	8°29'	7°39'	9°34'	27° 2
T 23	0 6 57	29°52'18"	25°37'	12°39'	9°12'	5°25'	28°11'	6°45'	28°33'	26°27'	2°49'	8°16'	7°36'	9°41'	26°59
F 24	0 10 54	0 ^h 51'00"	7°V37'	14° 2'	9°40'	6° 6'	28° 3'	6°53'	28°31'	26°25'	2°49'	8° 2'	7°33'	9°48'	26°57
S 25	0 14 50	1°49'44"	19°42'	15°29'	10° 7'	6°46'	27°55'	7° 0'	28°29'	26°24'	2°49'	7°48'	7°30'	9°55'	26°55
S 26	0 18 47	2°48'31"	1 ^h 54'	17° 1'	10°33'	7°27'	27°47'	7° 7'	28°26'	26°23'	2°50'	7°36'	7°27'	10° 1'	26°53
M27	0 22 43	3°47'19"	14°15'	18°36'	10°57'	8° 8'	27°39'	7°15'	28°24'	26°22'	2°50'	7°26'	7°23'	10° 8'	26°50
T 28	0 26 40	4°46'10"	26°45'	20°14'	11°19'	8°49'	27°31'	7°22'	28°21'	26°20'	2°50'	7°19'	7°20'	10°15'	26°48
W29	0 30 37	5°45'03"	9 ^h 28'	21°55'	11°40'	9°30'	27°24'	7°30'	28°19'	26°19'	2°51'	7°15'	7°17'	10°21'	26°46
T 30	0 34 33	6°43'58"	22 ^h 26'	23 ^h 37'	11 ^h 58'	10 ^h 11'	27°R16	7°43'	28°R17	26°R18	2°R51	7°R13	7°R14	10°R28	26°R44

Delta T = 66.24 sec.

OCTOBER 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	0 38 30	7 ^h 42'55"	5 ^h 42'	25 ^h 22'	12 ^h 15'	10 ^h 52'	27°R 8	7 ^h 44'	28°R14	26°R17	2°R52	7°R13	7°R11	10°R35	26°R42
S 2	0 42 26	8°41'55"	19°20'	27° 7'	12°30'	11°33'	27°R 0	7°52'	28°R12	26°R16	2°52'	7°R13	7° 8'	10°41'	26°R40
S 3	0 46 23	9°40'58"	3 ^h 20'	28°53'	12°42'	12°14'	26°53'	7°59'	28°10'	26°15'	2°53'	7°11'	7° 4'	10°48'	26°38
M 4	0 50 19	10°40'02"	17°44'	0 ^h 40'	12°53'	12°56'	26°45'	8° 7'	28° 7'	26°14'	2°53'	7° 8'	7° 1'	10°55'	26°36
T 5	0 54 16	11°39'09"	2 ^h 29'	2°27'	13° 2'	13°37'	26°37'	8°14'	28° 5'	26°13'	2°54'	7° 2'	6°58'	11° 2'	26°34
W 6	0 58 12	12°38'18"	17°29'	4°14'	13° 8'	14°19'	26°30'	8°21'	28° 3'	26°12'	2°55'	6°53'	6°55'	11° 8'	26°32
T 7	1 2 9	13°37'29"	2 ^h 37'	6° 1'	13°12'	15° 0'	26°23'	8°29'	28° 0'	26°11'	2°55'	6°42'	6°52'	11°15'	26°31
F 8	1 6 6	14°36'42"	17°41'	7°48'	13°R14	15°42'	26°15'	8°36'	27°58'	26°10'	2°56'	6°31'	6°48'	11°22'	26°29
S 9	1 10 2	15°35'57"	2 ^h 32'	9°35'	13°13'	16°23'	26° 8'	8°44'	27°56'	26° 9'	2°57'	6°20'	6°45'	11°28'	26°27
S 10	1 13 59	16°35'14"	17° 2'	11°21'	13°11'	17° 5'	26° 1'	8°51'	27°53'	26° 8'	2°58'	6°11'	6°42'	11°35'	26°26
M11	1 17 55	17°34'33"	1 ^h 4'	13° 7'	13° 5'	17°47'	25°54'	8°58'	27°51'	26° 7'	2°59'	6° 4'	6°39'	11°42'	26°24
T 12	1 21 52	18°33'54"	14°37'	14°52'	12°58'	18°29'	25°48'	9° 6'	27°49'	26° 6'	2°59'	6° 1'	6°36'	11°49'	26°23
W13	1 25 48	19°33'17"	27°43'	16°37'	12°48'	19°11'	25°41'	9°13'	27°47'	26° 5'	3° 0'	5°59'	6°33'	11°55'	26°21
T 14	1 29 45	20°32'42"	10 ^h 23'	18°21'	12°35'	19°53'	25°34'	9°20'	27°45'	26° 5'	3° 1'	5°D59	6°29'	12° 2'	26°20
F 15	1 33 41	21°32'08"	22°43'	20° 4'	12°20'	20°35'	25°28'	9°28'	27°42'	26° 4'	3° 2'	5°R59	6°26'	12° 9'	26°19
S 16	1 37 38	22°31'36"	4 ^h 49'	21°47'	12° 3'	21°17'	25°22'	9°35'	27°40'	26° 3'	3° 3'	5°58'	6°23'	12°15'	26°17
S 17	1 41 35	23°31'06"	16°44'	23°29'	11°43'	21°59'	25°15'	9°42'	27°38'	26° 2'	3° 4'	5°56'	6°20'	12°22'	26°16
M18	1 45 31	24°30'37"	28°35'	25°11'	11°22'	22°42'	25° 9'	9°49'	27°36'	26° 2'	3° 5'	5°51'	6°17'	12°29'	26°15
T 19	1 49 28	25°30'10"	10 ^h 26'	26°51'	10°58'	23°24'	25° 3'	9°57'	27°34'	26° 1'	3° 6'	5°43'	6°14'	12°36'	26°14
W20	1 53 24	26°29'45"	22°20'	28°32'	10°32'	24° 6'	24°58'	10° 4'	27°32'	26° 0'	3° 7'	5°33'	6°10'	12°42'	26°13
T 21	1 57 21	27°29'22"	4 ^h V19	0 ^h 11'	10° 4'	24°49'	24°52'	10°11'	27°30'	26° 0'	3° 8'	5°21'	6° 7'	12°49'	26°12
F 22	2 1 17	28°29'01"	16°27'	1°50'	9°34'	25°31'	24°47'	10°18'	27°28'	25°59'	3° 9'	5° 9'	6° 4'	12°56'	26°11
S 23	2 5 14	29°28'42"	28°43'	3°28'	9° 3'	26°14'	24°41'	10°25'	27°26'	25°59'	3°11'	4°56'	6° 1'	13° 2'	26°10
S 24	2 9 10	0 ^h 28'24"	11 ^h 9'	5° 6'	8°30'	26°57'	24°36'	10°33'	27°24'	25°58'	3°12'	4°45'	5°58'	13° 9'	26° 9
M25	2 13 7	1°28'09"	23°45'	6°43'	7°56'	27°39'	24°31'	10°40'	27°22'	25°58'	3°13'	4°36'	5°54'	13°16'	26° 8
T 26	2 17 3	2°27'56"	6 ^h 31'	8°20'	7°21'	28°22'	24°27'	10°47'	27°21'	25°57'	3°14'	4°30'	5°51'	13°23'	26° 8
W27	2 21 0	3°27'45"	19°28'	9°56'	6°45'	29° 5'	24°22'	10°54'	27°19'	25°57'	3°16'	4°27'	5°48'	13°29'	26° 7
T 28	2 24 57	4°27'37"	2 ^h 38'	11°31'	6° 9'	29°48'	24°18'	11° 1'	27°17'	25°57'	3°17'	4°D26	5°45'	13°36'	26° 7
F 29	2 28 53	5°27'30"	16° 0'	13° 6'	5°32'	0 ^h 31'	24°13'	11° 8'	27°15'	25°56'	3°18'	4°26'	5°42'	13°43'	26° 6
S 30	2 32 50	6°27'26"	29°38'	14°41'	4°56'	1°14'	24° 9'	11°15'	27°14'	25°56'	3°20'	4°27'	5°39'	13°49'	26° 6
S 31	2 36 46	7 ^h 27'23"	13 ^h 32'	16 ^h 15'	4 ^h 19'	1 ^h 57'	24°R 6	11 ^h 22'	27°R12	25°R56	3°R21	4°R27	5°R35	13°R56	26°R 5

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SWISS EPHEMERIS for the year 2010

NOVEMBER 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	2 40 43	8♈27°23	27♏42	17♈48	3°R43	2♈40	24°R 2	11♈29	27°R10	25°R56	3♈22	4°R25	5♈32	14♈3	26°R 5
T 2	2 44 39	9°27'25	12♏7	19°21	3♈8	3°23	23♈58	11°35	27♈9	25°R55	3°24	4♈21	5°29	14°10	26°R 5
W 3	2 48 36	10°27'30	26°45	20°54	2°34	4°7	23°55	11°42	27°7	25°55	3°25	4°15	5°26	14°16	26°4
T 4	2 52 32	11°27'36	11♏28	22°26	2°1	4°50	23°52	11°49	27°6	25°55	3°27	4°7	5°23	14°23	26°4
F 5	2 56 29	12°27'44	26°11	23°58	1°29	5°34	23°49	11°56	27°4	25°55	3°28	3°59	5°20	14°30	26°4
S 6	3 0 26	13°27'54	10♈45	25°29	0°58	6°17	23°46	12°2	27°3	25°55	3°30	3°51	5°16	14°36	26°D 4
S 7	3 4 22	14°28'07	25°3	27°0	0°30	7°1	23°44	12°9	27°1	25°D55	3°31	3°44	5°13	14°43	26°4
M 8	3 8 19	15°28'21	8♈59	28°31	0°3	7°44	23°42	12°16	27°0	25°55	3°33	3°39	5°10	14°50	26°4
T 9	3 12 15	16°28'36	22°31	0♈1	29♏39	8°28	23°39	12°22	26°59	25°55	3°34	3°36	5°7	14°57	26°4
W10	3 16 12	17°28'53	5♈38	1°31	29°16	9°12	23°38	12°29	26°57	25°55	3°36	3°D36	5°4	15°3	26°5
T 11	3 20 8	18°29'12	18°21	3°0	28°56	9°56	23°36	12°35	26°56	25°55	3°38	3°36	5°0	15°10	26°5
F 12	3 24 5	19°29'32	0♈45	4°29	28°38	10°39	23°34	12°42	26°55	25°55	3°39	3°38	4°57	15°17	26°5
S 13	3 28 2	20°29'54	12°53	5°58	28°22	11°23	23°33	12°48	26°54	25°55	3°41	3°39	4°54	15°23	26°6
S 14	3 31 58	21°30'16	24°51	7°26	28°9	12°7	23°32	12°55	26°53	25°56	3°43	3°R39	4°51	15°30	26°6
M15	3 35 55	22°30'41	6♈43	8°53	27°58	12°51	23°31	13°1	26°51	25°56	3°44	3°38	4°48	15°37	26°7
T 16	3 39 51	23°31'06	18°35	10°20	27°50	13°36	23°30	13°7	26°50	25°56	3°46	3°35	4°45	15°44	26°7
W17	3 43 48	24°31'33	0♈31	11°47	27°44	14°20	23°30	13°13	26°50	25°56	3°48	3°30	4°41	15°50	26°8
T 18	3 47 44	25°32'01	12°34	13°12	27°40	15°4	23°30	13°19	26°49	25°57	3°50	3°24	4°38	15°57	26°9
F 19	3 51 41	26°32'31	24°48	14°37	27°D39	15°48	23°D30	13°25	26°48	25°57	3°51	3°17	4°35	16°4	26°10
S 20	3 55 37	27°33'02	7♈15	16°2	27°41	16°33	23°30	13°32	26°47	25°58	3°53	3°10	4°32	16°10	26°10
S 21	3 59 34	28°33'35	19°56	17°25	27°45	17°17	23°30	13°37	26°46	25°58	3°55	3°4	4°29	16°17	26°11
M22	4 3 30	29°34'09	2♈50	18°48	27°51	18°1	23°31	13°43	26°45	25°59	3°57	3°0	4°26	16°24	26°12
T 23	4 7 27	0♈34'44	15°58	20°9	28°0	18°46	23°32	13°49	26°45	25°59	3°59	2°57	4°22	16°31	26°13
W24	4 11 24	1°35'21	29°19	21°29	28°10	19°30	23°33	13°55	26°44	26°0	4°1	2°D56	4°19	16°37	26°14
T 25	4 15 20	2°36'00	12♈50	22°48	28°23	20°15	23°34	14°1	26°43	26°0	4°3	2°56	4°16	16°44	26°16
F 26	4 19 17	3°36'40	26°32	24°6	28°39	21°0	23°35	14°6	26°43	26°1	4°5	2°57	4°13	16°51	26°17
S 27	4 23 13	4°37'22	10♈24	25°21	28°56	21°45	23°37	14°12	26°42	26°2	4°6	2°59	4°10	16°57	26°18
S 28	4 27 10	5°38'05	24°23	26°35	29°15	22°29	23°39	14°18	26°42	26°2	4°8	3°0	4°6	17°4	26°19
M29	4 31 6	6°38'50	8♈30	27°46	29°36	23°14	23°41	14°23	26°42	26°3	4°10	3°R 1	4°3	17°11	26°21
T 30	4 35 3	7♈39'36	22♈43	28♈54	29♈59	23♈59	23♈43	14♈28	26♈41	26°4	4♈12	3♈0	4♈0	17♈18	26°22

Delta T = 66.28 sec.

DECEMBER 2010

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	4 39 0	8♈40'24	6♈59	0♈0	0♈24	24♈44	23♈45	14♈34	26°R41	26°4	4♈14	2°R58	3♈57	17♈24	26°24
T 2	4 42 56	9°41'14	21°16	1°1	0°51	25°29	23°48	14°39	26°R41	26°5	4°16	2°R55	3°54	17°31	26°25
F 3	4 46 53	10°42'04	5♈29	1°59	1°19	26°14	23°51	14°44	26°41	26°6	4°18	2°52	3°51	17°38	26°27
S 4	4 50 49	11°42'57	19°34	2°52	1°50	26°59	23°54	14°49	26°40	26°7	4°20	2°48	3°47	17°44	26°29
S 5	4 54 46	12°43'50	3♈27	3°40	2°21	27°44	23°57	14°54	26°40	26°8	4°22	2°46	3°44	17°51	26°30
M 6	4 58 42	13°44'45	17°5	4°22	2°54	28°30	24°0	14°59	26°D40	26°9	4°24	2°44	3°41	17°58	26°32
T 7	5 2 39	14°45'41	0♈34	4°58	3°29	29°15	24°4	15°4	26°40	26°10	4°26	2°D43	3°38	18°5	26°34
W 8	5 6 35	15°46'37	13°24	5°25	4°5	0♈0	24°8	15°9	26°40	26°11	4°29	2°44	3°35	18°11	26°36
T 9	5 10 32	16°47'35	26°6	5°45	4°42	0°46	24°12	15°14	26°41	26°12	4°31	2°45	3°32	18°18	26°38
F 10	5 14 29	17°48'33	8♈30	5°55	5°21	1°31	24°16	15°19	26°41	26°13	4°33	2°46	3°28	18°25	26°40
S 11	5 18 25	18°49'32	20°39	5°R55	6°0	2°17	24°20	15°23	26°41	26°14	4°35	2°47	3°25	18°31	26°42
S 12	5 22 22	19°50'32	2♈39	5°44	6°41	3°2	24°25	15°28	26°41	26°15	4°37	2°49	3°22	18°38	26°44
M13	5 26 18	20°51'32	14°32	5°22	7°24	3°48	24°30	15°32	26°42	26°16	4°39	2°49	3°19	18°45	26°46
T 14	5 30 15	21°52'32	26°25	4°48	8°7	4°33	24°35	15°37	26°42	26°18	4°41	2°R49	3°16	18°52	26°49
W15	5 34 11	22°53'33	8♈20	4°3	8°51	5°19	24°40	15°41	26°42	26°19	4°43	2°49	3°12	18°58	26°51
T 16	5 38 8	23°54'35	20°24	3°8	9°36	6°5	24°45	15°45	26°43	26°20	4°45	2°48	3°9	19°5	26°53
F 17	5 42 4	24°55'37	2♈40	2°2	10°23	6°51	24°50	15°49	26°43	26°21	4°48	2°47	3°6	19°12	26°56
S 18	5 46 1	25°56'39	15°12	0°49	11°10	7°36	24°56	15°53	26°44	26°23	4°50	2°46	3°3	19°19	26°58
S 19	5 49 58	26°57'43	28°2	29♈29	11°58	8°22	25°2	15°57	26°45	26°24	4°52	2°45	3°0	19°25	27°1
M20	5 53 54	27°58'46	11♈11	28°7	12°47	9°8	25°8	16°1	26°45	26°25	4°54	2°44	2°57	19°32	27°3
T 21	5 57 51	28°59'50	24°40	26°44	13°37	9°54	25°14	16°5	26°46	26°27	4°56	2°44	2°53	19°39	27°6
W22	6 1 47	0♈0'55	8♈25	25°24	14°28	10°40	25°21	16°8	26°47	26°28	4°58	2°D44	2°50	19°45	27°8
T 23	6 5 44	1°2'00	22°26	24°9	15°19	11°26	25°27	16°12	26°48	26°30	5°0	2°44	2°47	19°52	27°11
F 24	6 9 40	2°3'06	6♈37	23°0	16°12	12°12	25°34	16°15	26°49	26°31	5°3	2°44	2°44	19°59	27°14
S 25	6 13 37	3°4'12	20°54	22°1	17°5	12°58	25°41	16°19	26°50	26°33	5°5	2°R44	2°41	20°6	27°17
S 26	6 17 33	4°5'18	5♈14	21°11	17°58	13°44	25°48	16°22	26°51	26°34	5°7	2°44	2°38	20°12	27°19
M27	6 21 30	5°6'26	19°32	20°32	18°53	14°31	25°55	16°25	26°52	26°36	5°9	2°44	2°34	20°19	27°22
T 28	6 25 27	6°7'34	3♈46	20°4	19°48	15°17	26°2	16°28	26°53	26°37	5°11	2°D44	2°31	20°26	27°25
W29	6 29 23	7°8'42	17°53	19°46	20°43	16°3	26°10	16°31	26°54	26°39	5°13	2°44	2°28	20°32	27°28
T 30	6 33 20	8°9'51	1♈50	19°D38	21°40	16°50	26°17	16°34	26°55	26°41	5°16	2°44	2°25	20°39	27°31
F 31	6 37 16	9♈11'01	15♈38	19♈40	22♈37	17♈36	26♈25	16♈37	26♈56	26°42	5♈18	2♈45	2♈22	20♈46	27°34

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