

SWISS EPHEMERIS for the year 1948

JANUARY 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	6 38 15	9°28'42"	7°26'26"	7°59'59"	8°55'55"	7°15'15"	15°58'08"	21°R59	23°R30	12°56'56"	14°R31	22°R18	20°R49	7°21'21"	20°M52
F 2	6 42 12	10°29'51"	21°45'21"	9°35'10"	10°10'10"	7°20'20"	15°21'21"	21°56'56"	23°R28	12°57'57"	14°R29	22°R15	20°46'46"	7°28'28"	20°59'59"
S 3	6 46 9	11°31'00"	5°43'39"	11°11'11"	11°24'24"	7°25'25"	15°34'34"	21°53'53"	23°25'25"	12°57'57"	14°28'28"	22°D13	20°43'43"	7°35'35"	21°5'5'
S 4	6 50 5	12°32'10"	19°8'8"	12°48'48"	12°38'38"	7°29'29"	15°47'47"	21°50'50"	23°23'23"	12°57'57"	14°27'27"	22°13'13"	20°40'40"	7°41'41"	21°11'11"
M 5	6 54 2	13°33'20"	2°15'15"	14°25'25"	13°52'52"	7°32'32"	15°59'59"	21°47'47"	23°21'21"	12°58'58"	14°26'26"	22°14'14"	20°36'36"	7°48'48"	21°18'18"
T 6	6 57 58	14°34'30"	15°3'3'	16°3'3'	15°6'6"	7°34'34"	16°12'12"	21°44'44"	23°18'18"	12°58'58"	14°25'25"	22°15'15"	20°33'33"	7°55'55"	21°24'24"
W 7	7 1 55	15°35'41"	27°35'35"	17°41'41"	16°20'20"	7°36'36"	16°25'25"	21°40'40"	23°16'16"	12°58'58"	14°24'24"	22°R15	20°30'30"	8°1'1'	21°30'30"
T 8	7 5 51	16°36'51"	9°55'55"	19°19'19"	17°34'34"	7°36'36"	16°37'37"	21°37'37"	23°14'14"	12°59'59"	14°22'22"	22°13'13"	20°27'27"	8°8'8"	21°36'36"
F 9	7 9 48	17°38'02"	22°6'6"	20°58'58"	18°48'48"	7°R37	16°50'50"	21°33'33"	23°11'11"	12°59'59"	14°21'21"	22°9'9"	20°24'24"	8°15'15"	21°42'42"
S 10	7 13 44	18°39'12"	4°31'10"	22°37'37"	20°2'2"	7°36'36"	17°2'2"	21°29'29"	23°9'9"	12°59'59"	14°20'20"	22°2'2"	20°21'21"	8°22'22"	21°47'47"
S 11	7 17 41	19°40'22"	16°9'9"	24°17'17"	21°16'16"	7°34'34"	17°15'15"	21°26'26"	23°7'7"	12°59'59"	14°19'19"	21°52'52"	20°17'17"	8°28'28"	21°53'53"
M 12	7 21 38	20°41'32"	28°4'4"	25°57'57"	22°30'30"	7°32'32"	17°27'27"	21°22'22"	23°5'5"	12°59'59"	14°17'17"	21°41'41"	20°14'14"	8°35'35"	21°59'59"
T 13	7 25 34	21°42'42"	9°57'57"	27°37'37"	23°44'44"	7°29'29"	17°40'40"	21°18'18"	23°3'3"	12°59'59"	14°16'16"	21°29'29"	20°11'11"	8°42'42"	22°4'4"
W 14	7 29 31	22°43'51"	21°45'21"	29°18'18"	24°58'58"	7°25'25"	17°52'52"	21°14'14"	23°0'0"	13°0'0"	14°15'15"	21°16'16"	20°8'8"	8°48'48"	22°10'10"
T 15	7 33 27	23°45'00"	3°40'40"	0°59'59"	26°12'12"	7°20'20"	18°4'4"	21°10'10"	22°58'58"	13°R0	14°13'13"	21°5'5"	20°5'5"	8°55'55"	22°15'15"
F 16	7 37 24	24°46'07"	15°35'35"	2°40'40"	27°26'26"	7°15'15"	18°16'16"	21°6'6"	22°56'56"	13°0'0"	14°12'12"	20°56'56"	20°1'1'	9°2'2"	22°21'21"
S 17	7 41 20	25°47'15"	27°37'37"	4°21'21"	28°39'39"	7°9'9"	18°28'28"	21°2'2"	22°54'54"	12°59'59"	14°11'11"	20°49'49"	19°58'58"	9°9'9"	22°26'26"
S 18	7 45 17	26°48'21"	9°48'48"	6°3'3'	29°53'53"	7°2'2"	18°40'40"	20°58'58"	22°52'52"	12°59'59"	14°10'10"	20°45'45"	19°55'55"	9°15'15"	22°31'31"
M 19	7 49 13	27°49'27"	22°14'14"	7°45'45"	1°18'18"	6°54'54"	18°52'52"	20°53'53"	22°50'50"	12°59'59"	14°8'8"	20°44'44"	19°52'52"	9°22'22"	22°36'36"
T 20	7 53 10	28°50'31"	4°59'59"	9°27'27"	2°20'20"	6°45'45"	19°4'4"	20°49'49"	22°48'48"	12°59'59"	14°7'7"	20°D44	19°49'49"	9°29'29"	22°41'41"
W 21	7 57 7	29°51'35"	18°7'7"	11°8'8"	3°34'34"	6°36'36"	19°16'16"	20°45'45"	22°46'46"	12°59'59"	14°5'5"	20°R44	19°46'46"	9°36'36"	22°46'46"
T 22	8 1 3	0°52'38"	1°11'11"	12°50'50"	4°47'47"	6°25'25"	19°28'28"	20°40'40"	22°44'44"	12°59'59"	14°4'4"	20°44'44"	19°42'42"	9°42'42"	22°51'51"
F 23	8 5 0	1°53'40"	15°48'48"	14°31'31"	6°1'1'	6°14'14"	19°39'39"	20°36'36"	22°43'43"	12°58'58"	14°3'3"	20°41'41"	19°39'39"	9°49'49"	22°56'56"
S 24	8 8 56	2°54'42"	0°23'23"	16°12'12"	7°14'14"	6°2'2"	19°51'51"	20°31'31"	22°41'41"	12°58'58"	14°1'1'	20°37'37"	19°36'36"	9°56'56"	23°0'0"
S 25	8 12 53	3°55'42"	15°22'22"	17°51'51"	8°27'27"	5°50'50"	20°3'3"	20°27'27"	22°39'39"	12°58'58"	14°0'0"	20°29'29"	19°33'33"	10°2'2"	23°5'5"
M 26	8 16 49	4°56'41"	0°19'19"	19°30'30"	9°41'41"	5°36'36"	20°14'14"	20°22'22"	22°37'37"	12°57'57"	13°59'59"	20°19'19"	19°30'30"	10°9'9"	23°9'9"
T 27	8 20 46	5°57'40"	16°1'1'	21°7'7"	10°54'54"	5°22'22"	20°25'25"	20°18'18"	22°36'36"	12°57'57"	13°57'57"	20°8'8"	19°27'27"	10°16'16"	23°14'14"
W 28	8 24 43	6°58'37"	1°19'19"	22°43'43"	12°7'7"	5°7'7"	20°37'37"	20°13'13"	22°34'34"	12°57'57"	13°56'56"	19°57'57"	19°23'23"	10°23'23"	23°18'18"
T 29	8 28 39	7°59'34"	16°19'19"	24°16'16"	13°20'20"	4°52'52"	20°48'48"	20°8'8"	22°32'32"	12°56'56"	13°54'54"	19°47'47"	19°20'20"	10°29'29"	23°22'22"
F 30	8 32 36	9°0'30"	0°54'54"	25°47'47"	14°33'33"	4°36'36"	20°59'59"	20°4'4"	22°31'31"	12°56'56"	13°53'53"	19°40'40"	19°17'17"	10°36'36"	23°26'26"
S 31	8 36 32	10°1'25"	15°1'1'	27°14'14"	15°46'46"	4°19'19"	21°10'10"	19°59'59"	22°R29	12°55'55"	13°52'52"	19°R36	19°R14	10°43'43"	23°M30

Delta T = 28.25 sec.

FEBRUARY 1948

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	8 40 29	11≈ 2'19	28♂38	28≈38	16♂59	4°R 1	21♂21	19°R54	22°R28	12°R55	13°R50	19°R34	19♂11	10≈49	23♂34
M 2	8 44 25	12° 3'13	11♂48	29°58	18°12	3♂43	21°32	19♂49	22♂26	12♂54	13♂49	19♂33	19° 7	10°56	23°38
T 3	8 48 22	13° 4'06	24°33	1♂12	19°24	3°24	21°43	19°44	22°25	12°53	13°47	19°33	19° 4	11° 3	23°42
W 4	8 52 18	14° 4'58	7♂0	2°20	20°37	3° 4	21°53	19°40	22°24	12°53	13°46	19°32	19° 1	11°10	23°45
T 5	8 56 15	15° 5'50	19°13	3°22	21°50	2°44	22° 4	19°35	22°22	12°52	13°44	19°29	18°58	11°16	23°49
F 6	9 0 12	16° 6'40	1♂15	4°16	23° 2	2°23	22°15	19°30	22°21	12°51	13°43	19°24	18°55	11°23	23°52
S 7	9 4 8	17° 7'30	13°11	5° 2	24°14	2° 2	22°25	19°25	22°20	12°51	13°42	19°15	18°52	11°30	23°55
S 8	9 8 5	18° 8'18	25° 4	5°39	25°27	1°41	22°35	19°20	22°19	12°50	13°40	19° 3	18°48	11°37	23°59
M 9	9 12 1	19° 9'05	6≈56	6° 7	26°39	1°18	22°45	19°15	22°18	12°49	13°39	18°49	18°45	11°43	24° 2
T 10	9 15 58	20° 9'51	18°48	6°24	27°51	0°56	22°56	19°10	22°17	12°48	13°37	18°34	18°42	11°50	24° 5
W 11	9 19 54	21°10'36	0♂41	6°R31	29° 3	0°33	23° 6	19° 5	22°16	12°47	13°36	18°19	18°39	11°57	24° 7
T 12	9 23 51	22°11'19	12°38	6°27	0♂15	0°10	23°15	19° 0	22°15	12°47	13°35	18° 5	18°36	12° 3	24°10
F 13	9 27 47	23°12'01	24°39	6°13	1°27	29♂47	23°25	18°56	22°14	12°46	13°33	17°53	18°33	12°10	24°13
S 14	9 31 44	24°12'41	6♂46	5°48	2°39	29°23	23°35	18°51	22°13	12°45	13°32	17°45	18°29	12°17	24°15
S 15	9 35 40	25°13'19	19° 2	5°13	3°51	29° 0	23°44	18°46	22°12	12°44	13°30	17°39	18°26	12°24	24°18
M 16	9 39 37	26°13'56	1♂30	4°29	5° 3	28°36	23°54	18°41	22°12	12°43	13°29	17°36	18°23	12°30	24°20
T 17	9 43 34	27°14'31	14°13	3°38	6°14	28°12	24° 3	18°36	22°11	12°42	13°28	17°D35	18°20	12°37	24°22
W 18	9 47 30	28°15'05	27°16	2°40	7°26	27°48	24°12	18°31	22°10	12°41	13°26	17°R35	18°17	12°44	24°25
T 19	9 51 27	29°15'36	10♂43	1°37	8°37	27°24	24°22	18°27	22°10	12°40	13°25	17°35	18°13	12°51	24°27
F 20	9 55 23	0♂16'06	24°35	0°31	9°48	27° 0	24°31	18°22	22° 9	12°38	13°23	17°33	18°10	12°57	24°28
S 21	9 59 20	1°16'34	8♂55	29≈24	10°59	26°36	24°39	18°17	22° 9	12°37	13°22	17°29	18° 7	13° 4	24°30
S 22	10 3 16	2°17'00	23°41	28°17	12°10	26°13	24°48	18°13	22° 8	12°36	13°21	17°22	18° 4	13°11	24°32
M 23	10 7 13	3°17'24	8♂46	27°12	13°21	25°49	24°57	18° 8	22° 8	12°35	13°19	17°12	18° 1	13°17	24°33
T 24	10 11 10	4°17'47	24° 2	26°11	14°32	25°26	25° 5	18° 3	22° 7	12°34	13°18	17° 1	17°58	13°24	24°35
W 25	10 15 6	5°18'07	9♂18	25°14	15°43	25° 3	25°14	17°59	22° 7	12°33	13°17	16°51	17°54	13°31	24°36
T 26	10 19 3	6°18'26	24°23	24°22	16°53	24°41	25°22	17°54	22° 7	12°31	13°16	16°41	17°51	13°38	24°37
F 27	10 22 59	7°18'43	9♂4	23°37	18° 4	24°19	25°30	17°50	22° 7	12°30	13°14	16°34	17°48	13°44	24°39
S 28	10 26 56	8°18'59	23°24	22°59	19°14	23°57	25°38	17°45	22° 7	12°29	13°13	16°29	17°45	13°51	24°40
S 29	10 30 52	9♂19'13	7♂11	22≈28	20♂24	23♂35	25♂46	17♂41	22♂7	12♂28	13♂12	16♂27	17♂42	13≈58	24♂41

SWISS EPHEMERIS for the year 1948

MARCH 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	10 34 49	10°19'26	20°11'29	22°R 4	21°V34	23°R15	25°V54	17°R37	22°D 7	12°R26	13°R10	16°D27	17°R39	14°R 4	24°M41
T 2	10 38 45	11°19'37	3°V21	21°R47	22°44	22°R54	26° 1	17°R32	22°II 7	12°R25	13°R 9	16°R27	17°35	14°11	24°42
W 3	10 42 42	12°19'47	15°51	21°36	23°53	22°34	26° 9	17°28	22° 7	12°24	13° 8	16°R28	17°32	14°18	24°43
T 4	10 46 38	13°19'55	28° 4	21°D33	25° 3	22°15	26°16	17°24	22° 7	12°22	13° 7	16°26	17°29	14°25	24°43
F 5	10 50 35	14°20'02	10°V 5	21°36	26°13	21°56	26°23	17°20	22° 7	12°21	13° 6	16°23	17°26	14°31	24°43
S 6	10 54 32	15°20'07	21°59	21°45	27°22	21°38	26°30	17°16	22° 7	12°19	13° 4	16°17	17°23	14°38	24°44
S 7	10 58 28	16°20'10	3°R50	22° 0	28°31	21°21	26°37	17°12	22° 8	12°18	13° 3	16° 9	17°19	14°45	24°44
M 8	11 2 25	17°20'12	15°41	22°21	29°40	21° 4	26°44	17° 8	22° 8	12°16	13° 2	15°58	17°16	14°52	24°R44
T 9	11 6 21	18°20'12	27°34	22°46	0°R49	20°48	26°50	17° 4	22° 9	12°15	13° 1	15°47	17°13	14°58	24°44
W10	11 10 18	19°20'09	9°R32	23°17	1°57	20°32	26°57	17° 0	22° 9	12°14	13° 0	15°36	17°10	15° 5	24°43
T 11	11 14 14	20°20'05	21°37	23°52	3° 6	20°18	27° 3	16°57	22°10	12°12	12°59	15°25	17° 7	15°12	24°43
F 12	11 18 11	21°20'00	3°V48	24°31	4°14	20° 4	27° 9	16°53	22°10	12°11	12°58	15°16	17° 4	15°18	24°43
S 13	11 22 7	22°19'52	16° 7	25°14	5°22	19°51	27°15	16°50	22°11	12° 9	12°57	15°10	17° 0	15°25	24°42
S 14	11 26 4	23°19'42	28°36	26° 0	6°30	19°38	27°21	16°46	22°11	12° 7	12°56	15° 6	16°57	15°32	24°41
M15	11 30 1	24°19'29	11°R16	26°50	7°38	19°27	27°27	16°43	22°12	12° 6	12°55	15°D 5	16°54	15°39	24°41
T 16	11 33 57	25°19'15	24° 9	27°44	8°46	19°16	27°32	16°39	22°13	12° 4	12°54	15° 5	16°51	15°45	24°40
W17	11 37 54	26°18'59	7°II17	28°40	9°53	19° 6	27°37	16°36	22°14	12° 3	12°53	15° 6	16°48	15°52	24°39
T 18	11 41 50	27°18'40	20°44	29°39	11° 1	18°57	27°43	16°33	22°15	12° 1	12°52	15°R 7	16°44	15°59	24°38
F 19	11 45 47	28°18'19	4°R30	0°R41	12° 8	18°48	27°48	16°30	22°16	12° 0	12°51	15° 7	16°41	16° 5	24°37
S 20	11 49 43	29°17'56	18°37	1°45	13°14	18°40	27°52	16°27	22°17	11°58	12°50	15° 5	16°38	16°12	24°35
S 21	11 53 40	0°V17'30	3°R 3	2°52	14°21	18°34	27°57	16°24	22°18	11°56	12°49	15° 2	16°35	16°19	24°34
M22	11 57 36	1°17'02	17°47	4° 1	15°27	18°27	28° 2	16°22	22°19	11°55	12°48	14°56	16°32	16°26	24°33
T 23	12 1 33	2°16'32	2°M40	5°12	16°33	18°22	28° 6	16°19	22°20	11°53	12°47	14°50	16°29	16°32	24°31
W24	12 5 30	3°16'00	17°37	6°25	17°39	18°18	28°10	16°16	22°21	11°52	12°46	14°44	16°25	16°39	24°29
T 25	12 9 26	4°15'25	2°R27	7°40	18°45	18°14	28°14	16°14	22°22	11°50	12°46	14°38	16°22	16°46	24°27
F 26	12 13 23	5°14'48	17° 2	8°57	19°50	18°11	28°18	16°12	22°24	11°48	12°45	14°33	16°19	16°53	24°26
S 27	12 17 19	6°14'09	1°M16	10°16	20°56	18° 9	28°22	16° 9	22°25	11°47	12°44	14°31	16°16	16°59	24°24
S 28	12 21 16	7°13'29	15° 6	11°37	22° 0	18° 7	28°25	16° 7	22°27	11°45	12°43	14°D30	16°13	17° 6	24°21
M29	12 25 12	8°12'47	28°29	12°59	23° 5	18° 6	28°28	16° 5	22°28	11°43	12°43	14°31	16°10	17°13	24°19
T 30	12 29 9	9°12'02	11°R27	14°23	24° 9	18°D 6	28°31	16° 3	22°30	11°42	12°42	14°32	16° 6	17°19	24°17
W31	12 33 5	10°V11'17	24°R 3	15°R49	25°R14	18°R 7	28°R34	16°R 1	22°II31	11°R40	12°R41	14°R34	16°R 3	17°R26	24°M15

Delta T = 28.32 sec.

APRIL 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 37 2	11°V10'29	6°R20	17°R16	26°R17	18°R 8	28°R37	15°R59	22°II33	11°R38	12°R41	14°R35	16°R 0	17°R33	24°R12
F 2	12 40 59	12° 9'39	18°25	18°45	27°21	18°11	28°40	15°R58	22°34	11°R37	12°R40	14°R35	15°57	17°40	24°M10
S 3	12 44 55	13° 8'48	0°R21	20°15	28°24	18°13	28°42	15°56	22°36	11°35	12°40	14°33	15°54	17°46	24° 7
S 4	12 48 52	14° 7'55	12°12	21°47	29°27	18°17	28°44	15°55	22°38	11°33	12°39	14°30	15°50	17°53	24° 4
M 5	12 52 48	15° 7'00	24° 5	23°21	0°II30	18°21	28°46	15°53	22°40	11°32	12°38	14°26	15°47	18° 0	24° 2
T 6	12 56 45	16° 6'03	6°R 1	24°56	1°32	18°26	28°48	15°52	22°41	11°30	12°38	14°22	15°44	18° 7	23°59
W 7	13 0 41	17° 5'05	18° 4	26°32	2°34	18°32	28°50	15°51	22°43	11°29	12°37	14°17	15°41	18°13	23°56
T 8	13 4 38	18° 4'04	0°V16	28°10	3°35	18°38	28°51	15°50	22°45	11°27	12°37	14°12	15°38	18°20	23°53
F 9	13 8 34	19° 3'01	12°39	29°50	4°37	18°45	28°53	15°49	22°47	11°25	12°37	14° 9	15°35	18°27	23°50
S 10	13 12 31	20° 1'57	25°15	1°V31	5°37	18°52	28°54	15°48	22°49	11°24	12°36	14° 6	15°31	18°33	23°46
S 11	13 16 27	21° 0'50	8°R 2	3°13	6°38	19° 0	28°55	15°47	22°51	11°22	12°36	14°D 5	15°28	18°40	23°43
M12	13 20 24	21°59'42	21° 2	4°58	7°38	19° 9	28°55	15°47	22°53	11°20	12°35	14° 5	15°25	18°47	23°40
T 13	13 24 21	22°58'31	4°II15	6°43	8°38	19°18	28°56	15°46	22°55	11°19	12°35	14° 6	15°22	18°54	23°36
W14	13 28 17	23°57'18	17°41	8°30	9°37	19°28	28°56	15°46	22°58	11°17	12°35	14° 7	15°19	19° 0	23°33
T 15	13 32 14	24°56'03	1°R19	10°19	10°36	19°39	28°R56	15°46	23° 0	11°16	12°34	14° 9	15°16	19° 7	23°29
F 16	13 36 10	25°54'46	15°11	12° 9	11°34	19°50	28°56	15°45	23° 2	11°14	12°34	14°10	15°12	19°14	23°26
S 17	13 40 7	26°53'26	29°15	14° 1	12°32	20° 1	28°56	15°D45	23° 4	11°12	12°34	14°R10	15° 9	19°20	23°22
S 18	13 44 3	27°52'05	13°R30	15°55	13°30	20°13	28°56	15°45	23° 7	11°11	12°34	14° 9	15° 6	19°27	23°18
M19	13 48 0	28°50'40	27°53	17°50	14°27	20°26	28°55	15°46	23° 9	11° 9	12°34	14° 8	15° 3	19°34	23°14
T 20	13 51 57	29°49'14	12°M22	19°46	15°23	20°39	28°54	15°46	23°11	11° 8	12°33	14° 7	15° 0	19°41	23°11
W21	13 55 53	0°R47'45	26°50	21°44	16°19	20°53	28°53	15°46	23°14	11° 6	12°33	14° 5	14°56	19°47	23° 7
T 22	13 59 50	1°46'15	11°R13	23°44	17°14	21° 7	28°52	15°47	23°16	11° 5	12°33	14° 3	14°53	19°54	23° 3
F 23	14 3 46	2°44'42	25°25	25°45	18° 9	21°22	28°51	15°47	23°19	11° 3	12°33	14° 2	14°50	20° 1	22°59
S 24	14 7 43	3°43'07	9°M23	27°48	19° 3	21°37	28°49	15°48	23°22	11° 2	12°33	14°D 2	14°47	20° 8	22°55
S 25	14 11 39	4°41'31	23° 1	29°52	19°57	21°52	28°48	15°49	23°24	11° 0	12°D33	14° 2	14°44	20°14	22°51
M26	14 15 36	5°39'53	6°R19	1°R57	20°50	22° 8	28°46	15°50	23°27	10°59	12°33	14° 2	14°41	20°21	22°46
T 27	14 19 32	6°38'13	19°16	4° 3	21°42	22°25	28°44	15°51	23°29	10°57	12°33	14° 3	14°37	20°28	22°42
W28	14 23 29	7°36'32	1°R54	6°10	22°34	22°42	28°42	15°52	23°32	10°56	12°33	14° 4	14°34	20°34	22°38
T 29	14 27 26	8°34'49	14°14	8°19	23°25	22°59	28°39	15°53	23°35	10°54	12°33	14° 4	14°31	20°41	22°34
F 30	14 31 22	9°R33'05	26°R22	10°R28	24°II15	23°R17	28°R37	15°R54	23°II38	10°R53	12°R34	14°R 5	14°R28	20°R48	22°M29

Delta T = 28.36 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

SWISS EPHEMERIS for the year 1948

MAY 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	14 35 19	10♈31'19	8♋20	12♈37	25♈5	23♈35	28♈34	15♈56	23♈40	10♈52	12♈34	14♈5	14♈25	20♈55	22♈25
S 2	14 39 15	11°29'31	20°14	14°46	25°53	23°53	28♋31	15°57	23°43	10♈50	12°34	14♈5	14°22	21°1	22♈21
M 3	14 43 12	12°27'42	2♈7	16°56	26°41	24°12	28°28	15°59	23°46	10°49	12°34	14°5	14°18	21°8	22°16
T 4	14 47 8	13°25'52	14°5	19°5	27°28	24°32	28°24	16°1	23°49	10°47	12°34	14°5	14°15	21°15	22°12
W 5	14 51 5	14°24'00	26°12	21°14	28°15	24°51	28°21	16°2	23°52	10°46	12°35	14°D 5	14°12	21°21	22°8
T 6	14 55 1	15°22'06	8♈30	23°22	29°0	25°12	28°17	16°4	23°55	10°45	12°35	14°5	14°9	21°28	22°3
F 7	14 58 58	16°20'11	21°3	25°28	29°45	25°32	28°13	16°6	23°58	10°44	12°35	14°5	14°6	21°35	21°59
S 8	15 2 54	17°18'15	3♈53	27°33	0♈28	25°53	28°9	16°9	24°1	10°42	12°36	14°5	14°2	21°42	21°54
S 9	15 6 51	18°16'17	16°59	29°36	1°11	26°14	28°5	16°11	24°4	10°41	12°36	14°R 5	13°59	21°48	21°50
M10	15 10 48	19°14'17	0♈23	1♈38	1°52	26°35	28°1	16°13	24°7	10°40	12°36	14°5	13°56	21°55	21°45
T 11	15 14 44	20°12'16	14°1	3°37	2°33	26°57	27°56	16°16	24°10	10°39	12°37	14°4	13°53	22°2	21°41
W12	15 18 41	21°10'13	27°53	5°33	3°12	27°19	27°52	16°18	24°13	10°37	12°37	14°4	13°50	22°9	21°36
T 13	15 22 37	22°8'09	11♈55	7°27	3°50	27°42	27°47	16°21	24°16	10°36	12°38	14°3	13°47	22°15	21°32
F 14	15 26 34	23°6'02	26°4	9°18	4°27	28°5	27°42	16°24	24°19	10°35	12°38	14°2	13°43	22°22	21°27
S 15	15 30 30	24°3'54	10♈17	11°6	5°3	28°28	27°37	16°26	24°23	10°34	12°39	14°1	13°40	22°29	21°23
S 16	15 34 27	25°1'44	24°31	12°52	5°37	28°51	27°31	16°29	24°26	10°33	12°39	14°D 1	13°37	22°35	21°18
M17	15 38 24	25°59'33	8♈44	14°34	6°10	29°15	27°26	16°32	24°29	10°32	12°40	14°1	13°34	22°42	21°14
T 18	15 42 20	26°57'19	22°53	16°12	6°42	29°39	27°21	16°35	24°32	10°31	12°41	14°2	13°31	22°49	21°10
W19	15 46 17	27°55'04	6♈57	17°48	7°12	0♈3	27°15	16°39	24°36	10°30	12°41	14°3	13°28	22°56	21°5
T 20	15 50 13	28°52'47	20°52	19°20	7°40	0°28	27°9	16°42	24°39	10°29	12°42	14°4	13°24	23°2	21°1
F 21	15 54 10	29°50'29	4♈36	20°49	8°7	0°53	27°3	16°45	24°42	10°28	12°43	14°5	13°21	23°9	20°56
S 22	15 58 6	0♈48'09	18°9	22°14	8°33	1°18	26°57	16°49	24°46	10°27	12°43	14°R 5	13°18	23°16	20°52
S 23	16 2 3	1°45'48	1♈27	23°36	8°56	1°43	26°51	16°52	24°49	10°26	12°44	14°4	13°15	23°22	20°48
M24	16 5 59	2°43'26	14°30	24°55	9°18	2°9	26°45	16°56	24°52	10°25	12°45	14°3	13°12	23°29	20°43
T 25	16 9 56	3°41'03	27°18	26°10	9°39	2°34	26°38	17°0	24°56	10°24	12°46	14°0	13°8	23°36	20°39
W26	16 13 53	4°38'38	9♈50	27°21	9°57	3°0	26°32	17°4	24°59	10°24	12°46	13°57	13°5	23°43	20°35
T 27	16 17 49	5°36'13	22°9	28°29	10°13	3°27	26°25	17°8	25°2	10°23	12°47	13°54	13°2	23°49	20°30
F 28	16 21 46	6°33'46	4♈16	29°32	10°28	3°53	26°19	17°12	25°6	10°22	12°48	13°51	12°59	23°56	20°26
S 29	16 25 42	7°31'19	16°14	0♈32	10°40	4°20	26°12	17°16	25°9	10°21	12°49	13°48	12°56	24°3	20°22
S 30	16 29 39	8°28'50	28°8	1°29	10°50	4°47	26°5	17°20	25°13	10°21	12°50	13°47	12°53	24°10	20°18
M31	16 33 35	9♈26'21	10♈2	2♈21	10♈58	5♈14	25♈58	17♈24	25♈16	10♈20	12♈51	13°D46	12♈49	24♈16	20♈14

Delta T = 28.40 sec.

JUNE 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	16 37 32	10♈23'51	21♈59	3♈9	11♈4	5♈42	25°R51	17♈29	25♈20	10°R19	12♈52	13♈47	12♈46	24♈23	20°R10
W 2	16 41 28	11°21'20	4♈6	3°54	11°8	6°9	25♈44	17°33	25°23	10♈19	12°53	13°48	12°43	24°30	20♈6
T 3	16 45 25	12°18'48	16°27	4°34	11°R 9	6°37	25°36	17°38	25°27	10°18	12°54	13°50	12°40	24°36	20°2
F 4	16 49 22	13°16'16	29°5	5°9	11°8	7°5	25°29	17°42	25°30	10°18	12°55	13°51	12°37	24°43	19°58
S 5	16 53 18	14°13'43	12♈4	5°41	11°5	7°34	25°22	17°47	25°34	10°17	12°56	13°R52	12°33	24°50	19°54
S 6	16 57 15	15°11'09	25°25	6°8	10°59	8°2	25°14	17°52	25°37	10°16	12°57	13°51	12°30	24°57	19°51
M 7	17 1 11	16°8'35	9♈8	6°31	10°51	8°31	25°7	17°56	25°41	10°16	12°58	13°49	12°27	25°3	19°47
T 8	17 5 8	17°6'00	23°11	6°49	10°40	9°0	24°59	18°1	25°44	10°16	12°59	13°46	12°24	25°10	19°43
W 9	17 9 4	18°3'24	7♈30	7°2	10°28	9°29	24°52	18°6	25°48	10°15	13°0	13°41	12°21	25°17	19°40
T 10	17 13 1	19°0'47	22°0	7°11	10°12	9°58	24°44	18°11	25°51	10°15	13°1	13°36	12°18	25°23	19°36
F 11	17 16 57	19°58'09	6♈34	7°R16	9°55	10°28	24°37	18°17	25°55	10°14	13°3	13°31	12°14	25°30	19°33
S 12	17 20 54	20°55'30	21°5	7°16	9°35	10°57	24°29	18°22	25°59	10°14	13°4	13°27	12°11	25°37	19°29
S 13	17 24 51	21°52'50	5♈30	7°11	9°12	11°27	24°22	18°27	26°2	10°14	13°5	13°24	12°8	25°44	19°26
M14	17 28 47	22°50'09	19°44	7°2	8°48	11°57	24°14	18°32	26°6	10°14	13°6	13°D23	12°5	25°50	19°23
T 15	17 32 44	23°47'27	3♈45	6°49	8°22	12°27	24°6	18°38	26°9	10°13	13°7	13°24	12°2	25°57	19°20
W16	17 36 40	24°44'44	17°32	6°32	7°53	12°58	23°59	18°43	26°13	10°13	13°9	13°25	11°59	26°4	19°17
T 17	17 40 37	25°42'00	1♈5	6°11	7°23	13°28	23°51	18°49	26°16	10°13	13°10	13°26	11°55	26°11	19°14
F 18	17 44 33	26°39'15	14°26	5°47	6°51	13°59	23°43	18°54	26°20	10°13	13°11	13°R27	11°52	26°17	19°11
S 19	17 48 30	27°36'30	27°34	5°19	6°18	14°30	23°36	19°0	26°24	10°13	13°13	13°26	11°49	26°24	19°8
S 20	17 52 26	28°33'44	10♈31	4°49	5°43	15°1	23°28	19°6	26°27	10°13	13°14	13°23	11°46	26°31	19°5
M21	17 56 23	29°30'58	23°15	4°17	5°8	15°32	23°20	19°12	26°31	10°D13	13°15	13°18	11°43	26°37	19°2
T 22	18 0 20	0♈28'11	5♈49	3°44	4°31	16°3	23°13	19°17	26°34	10°13	13°17	13°11	11°40	26°44	19°0
W23	18 4 16	1°25'24	18°11	3°9	3°54	16°35	23°5	19°23	26°38	10°13	13°18	13°3	11°36	26°51	18°57
T 24	18 8 13	2°22'37	0♈23	2°34	3°16	17°7	22°58	19°29	26°41	10°13	13°20	12°54	11°33	26°58	18°55
F 25	18 12 9	3°19'49	12°26	1°59	2°39	17°38	22°50	19°35	26°45	10°13	13°21	12°45	11°30	27°4	18°52
S 26	18 16 6	4°17'02	24°22	1°25	2°1	18°10	22°43	19°41	26°49	10°13	13°23	12°37	11°27	27°11	18°50
S 27	18 20 2	5°14'14	6♈14	0°52	1°24	18°42	22°36	19°48	26°52	10°13	13°24	12°31	11°24	27°18	18°48
M28	18 23 59	6°11'26	18°6	0°22	0°47	19°15	22°28	19°54	26°56	10°13	13°26	12°27	11°20	27°24	18°46
T 29	18 27 56	7°8'38	0♈2	29♈53	0°12	19°47	22°21	20°0	26°59	10°14	13°27	12°26	11°17	27°31	18°44
W30	18 31 52	8♈5'50	12♈7	29♈28	29♈37	20♈19	22♈14	20♈6	27♈3	10♈14	13♈29	12°D25	11♈14	27♈38	18♈42

Delta T = 28.44 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

SWISS EPHEMERIS for the year 1948

JULY 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	18 35 49	9°32'02	24°47'26	29°R 6	29°R 3	20°45'52	22°R 7	20°41'13	27°II 6	10°41'14	13°40'30	12°42'26	11°48'11	27°44'45	18°R40
F 2	18 39 45	10° 0'15	7°48' 4	28°II47	28°II31	21°25' 0	22°47' 0	20°19' 0	27°10' 0	10°15' 0	13°32' 0	12°R27	11° 8' 0	27°51' 0	18°M38
S 3	18 43 42	10°57'28	20° 4' 0	28°33' 0	28° 1' 0	21°58' 0	21°53' 0	20°26' 0	27°13' 0	10°15' 0	13°33' 0	12°27' 0	11° 5' 0	27°58' 0	18°37' 0
S 4	18 47 38	11°54'41	3°II31	28°23' 0	27°32' 0	22°31' 0	21°46' 0	20°32' 0	27°17' 0	10°15' 0	13°35' 0	12°25' 0	11° 1' 0	28° 5' 0	18°35' 0
M 5	18 51 35	12°51'54	17°25' 0	28°18' 0	27° 6' 0	23° 4' 0	21°39' 0	20°39' 0	27°20' 0	10°16' 0	13°36' 0	12°21' 0	10°58' 0	28°11' 0	18°34' 0
T 6	18 55 31	13°49'07	1°45'45	28°D18	26°41' 0	23°37' 0	21°33' 0	20°45' 0	27°24' 0	10°16' 0	13°38' 0	12°14' 0	10°55' 0	28°18' 0	18°33' 0
W 7	18 59 28	14°46'21	16°25' 0	28°23' 0	26°18' 0	24°11' 0	21°26' 0	20°52' 0	27°27' 0	10°17' 0	13°40' 0	12° 6' 0	10°52' 0	28°25' 0	18°31' 0
T 8	19 3 25	15°43'35	1°49'19	28°33' 0	25°58' 0	24°44' 0	21°20' 0	20°59' 0	27°31' 0	10°17' 0	13°41' 0	11°56' 0	10°49' 0	28°32' 0	18°30' 0
F 9	19 7 21	16°40'48	16°18' 0	28°48' 0	25°40' 0	25°18' 0	21°14' 0	21° 5' 0	27°34' 0	10°18' 0	13°43' 0	11°47' 0	10°46' 0	28°38' 0	18°29' 0
S 10	19 11 18	17°38'02	1°49'12	29° 8' 0	25°24' 0	25°52' 0	21° 7' 0	21°12' 0	27°38' 0	10°18' 0	13°44' 0	11°39' 0	10°42' 0	28°45' 0	18°28' 0
S 11	19 15 14	18°35'15	15°54' 0	29°34' 0	25°10' 0	26°26' 0	21° 1' 0	21°19' 0	27°41' 0	10°19' 0	13°46' 0	11°33' 0	10°39' 0	28°52' 0	18°27' 0
M12	19 19 11	19°32'29	0°41'17	0°48' 4	24°59' 0	27° 0' 0	20°55' 0	21°26' 0	27°44' 0	10°20' 0	13°48' 0	11°30' 0	10°36' 0	28°58' 0	18°27' 0
T 13	19 23 7	20°29'42	14°21' 0	0°40' 0	24°50' 0	27°34' 0	20°49' 0	21°33' 0	27°48' 0	10°20' 0	13°49' 0	11°29' 0	10°33' 0	29° 5' 0	18°26' 0
W14	19 27 4	21°26'55	28° 3' 0	1°21' 0	24°44' 0	28° 8' 0	20°44' 0	21°40' 0	27°51' 0	10°21' 0	13°51' 0	11°D28	10°30' 0	29°12' 0	18°26' 0
T 15	19 31 0	22°24'09	1°11'26	2° 7' 0	24°40' 0	28°43' 0	20°38' 0	21°47' 0	27°54' 0	10°22' 0	13°53' 0	11°R29	10°26' 0	29°19' 0	18°25' 0
F 16	19 34 57	23°21'22	24°31' 0	2°59' 0	24°D38	29°17' 0	20°33' 0	21°54' 0	27°58' 0	10°22' 0	13°55' 0	11°28' 0	10°23' 0	29°25' 0	18°25' 0
S 17	19 38 54	24°18'36	7°47'22	3°55' 0	24°39' 0	29°52' 0	20°28' 0	22° 1' 0	28° 1' 0	10°23' 0	13°56' 0	11°26' 0	10°20' 0	29°32' 0	18°25' 0
S 18	19 42 50	25°15'50	20° 0' 0	4°56' 0	24°42' 0	0°42'27	20°22' 0	22° 8' 0	28° 4' 0	10°24' 0	13°58' 0	11°21' 0	10°17' 0	29°39' 0	18°24' 0
M19	19 46 47	26°13'04	2°38'28	6° 2' 0	24°47' 0	1° 2' 0	20°17' 0	22°15' 0	28° 8' 0	10°25' 0	14° 0' 0	11°13' 0	10°14' 0	29°46' 0	18°D24
T 20	19 50 43	27°10'19	7°13'28	7°13' 0	24°54' 0	1°37' 0	20°13' 0	22°22' 0	28°11' 0	10°26' 0	14° 1' 0	11° 2' 0	10°11' 0	29°52' 0	18°25' 0
W21	19 54 40	28° 7'34	26°57' 0	8°29' 0	25° 4' 0	2°12' 0	20° 8' 0	22°29' 0	28°14' 0	10°27' 0	14° 3' 0	10°50' 0	10° 7' 0	29°59' 0	18°25' 0
T 22	19 58 36	29° 4'49	9°48' 1	9°49' 0	25°15' 0	2°47' 0	20° 3' 0	22°37' 0	28°17' 0	10°28' 0	14° 5' 0	10°37' 0	10° 4' 0	0°48' 6	18°25' 0
F 23	20 2 33	0°49'20	20°58' 0	11°14' 0	25°29' 0	3°23' 0	19°59' 0	22°44' 0	28°20' 0	10°29' 0	14° 7' 0	10°24' 0	10° 1' 0	0°12' 0	18°25' 0
S 24	20 6 29	0°59'22	2°45'52	12°43' 0	25°45' 0	3°58' 0	19°55' 0	22°51' 0	28°24' 0	10°30' 0	14° 9' 0	10°12' 0	9°58' 0	0°19' 0	18°26' 0
S 25	20 10 26	1°56'40	14°42' 0	14°17' 0	26° 2' 0	4°34' 0	19°51' 0	22°58' 0	28°27' 0	10°31' 0	14°10' 0	10° 2' 0	9°55' 0	0°26' 0	18°27' 0
M26	20 14 23	2°53'58	26°33' 0	15°54' 0	26°22' 0	5° 9' 0	19°47' 0	23° 6' 0	28°30' 0	10°32' 0	14°12' 0	9°55' 0	9°51' 0	0°33' 0	18°27' 0
T 27	20 18 19	3°51'17	8°47'28	17°36' 0	26°43' 0	5°45' 0	19°43' 0	23°13' 0	28°33' 0	10°33' 0	14°14' 0	9°51' 0	9°48' 0	0°39' 0	18°28' 0
W28	20 22 16	4°48'37	20°32' 0	19°21' 0	27° 6' 0	6°21' 0	19°40' 0	23°20' 0	28°36' 0	10°34' 0	14°16' 0	9°49' 0	9°45' 0	0°46' 0	18°29' 0
T 29	20 26 12	5°45'58	2°48'48	21° 9' 0	27°30' 0	6°57' 0	19°36' 0	23°28' 0	28°39' 0	10°35' 0	14°17' 0	9°48' 0	9°42' 0	0°53' 0	18°30' 0
F 30	20 30 9	6°43'21	15°23' 0	23° 0' 0	27°57' 0	7°33' 0	19°33' 0	23°35' 0	28°42' 0	10°36' 0	14°19' 0	9°48' 0	9°39' 0	0°59' 0	18°31' 0
S 31	20 34 5	7°40'44	28°40'20	24°55' 0	28°II25	8°49' 0	19°47'30	23°40'43	28°II45	10°41'38	14°40'21	9°47' 0	9°36' 0	1°48' 6	18°M32

Delta T = 28.48 sec.

AUGUST 1948

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	20 38 2	8♂38'09	11♂45	26♂51	28♂54	8♂45	19°R27	23♂50	28♂48	10♂39	14♂23	9°R45	9♂32	1°K13	18♂34
M 2	20 41 58	9°35'35	25°39	28°50	29°25	9°22	19°A24	23°58	28°51	10°40	14°25	9♂40	9°29	1°20	18°35
T 3	20 45 55	10°33'02	10♂2	0♂51	29°57	9°58	19°22	24° 5	28°54	10°41	14°26	9°33	9°26	1°26	18°37
W 4	20 49 52	11°30'30	24°51	2°53	0♂30	10°35	19°20	24°13	28°57	10°43	14°28	9°23	9°23	1°33	18°38
T 5	20 53 48	12°27'59	9♂58	4°56	1° 5	11°12	19°17	24°20	29° 0	10°44	14°30	9°12	9°20	1°40	18°40
F 6	20 57 45	13°25'29	25°13	7° 0	1°41	11°48	19°15	24°28	29° 2	10°45	14°32	9° 2	9°17	1°46	18°42
S 7	21 1 41	14°23'00	10♂25	9° 4	2°19	12°25	19°14	24°35	29° 5	10°47	14°34	8°52	9°13	1°53	18°44
S 8	21 5 38	15°20'31	25°23	11° 8	2°57	13° 2	19°12	24°43	29° 8	10°48	14°36	8°45	9°10	2° 0	18°46
M 9	21 9 34	16°18'04	10♂1	13°12	3°37	13°39	19°11	24°50	29°11	10°50	14°37	8°40	9° 7	2° 7	18°48
T 10	21 13 31	17°15'37	24°14	15°16	4°17	14°17	19° 9	24°58	29°13	10°51	14°39	8°38	9° 4	2°13	18°50
W11	21 17 27	18°13'12	8♂1	17°19	4°59	14°54	19° 8	25° 6	29°16	10°53	14°41	8°D38	9° 1	2°20	18°53
T 12	21 21 24	19°10'47	21°23	19°22	5°41	15°31	19° 8	25°13	29°18	10°54	14°43	8°R38	8°57	2°27	18°55
F 13	21 25 21	20° 8'23	4°A24	21°23	6°25	16° 9	19° 7	25°21	29°21	10°56	14°45	8°37	8°54	2°33	18°58
S 14	21 29 17	21° 6'00	17° 6	23°24	7° 9	16°46	19° 6	25°29	29°24	10°57	14°46	8°35	8°51	2°40	19° 0
S 15	21 33 14	22° 3'39	29°34	25°23	7°55	17°24	19° 6	25°36	29°26	10°59	14°48	8°30	8°48	2°47	19° 3
M16	21 37 10	23° 1'18	11♂50	27°21	8°41	18° 2	19°D 6	25°44	29°28	11° 0	14°50	8°22	8°45	2°53	19° 6
T 17	21 41 7	23°58'58	23°57	29°18	9°28	18°40	19° 6	25°51	29°31	11° 2	14°52	8°12	8°42	3° 0	19° 9
W18	21 45 3	24°56'40	5♂59	1♂13	10°16	19°18	19° 6	25°59	29°33	11° 4	14°54	8° 0	8°38	3° 7	19°12
T 19	21 49 0	25°54'22	17°55	3° 7	11° 4	19°56	19° 7	26° 7	29°36	11° 5	14°55	7°47	8°35	3°14	19°15
F 20	21 52 56	26°52'06	29°49	5° 0	11°54	20°34	19° 7	26°14	29°38	11° 7	14°57	7°34	8°32	3°20	19°18
S 21	21 56 53	27°49'52	11°K40	6°52	12°44	21°12	19° 8	26°22	29°40	11° 9	14°59	7°23	8°29	3°27	19°21
S 22	22 0 50	28°47'38	23°31	8°42	13°35	21°50	19° 9	26°30	29°42	11°11	15° 1	7°13	8°26	3°34	19°25
M23	22 4 46	29°45'27	5°Y25	10°30	14°26	22°29	19°11	26°37	29°45	11°12	15° 2	7° 6	8°23	3°40	19°28
T 24	22 8 43	0♂43'17	17°22	12°18	15°18	23° 7	19°12	26°45	29°47	11°14	15° 4	7° 2	8°19	3°47	19°32
W25	22 12 39	1°41'08	29°28	14° 4	16°11	23°46	19°13	26°53	29°49	11°16	15° 6	7° 0	8°16	3°54	19°35
T 26	22 16 36	2°39'02	11♂45	15°48	17° 5	24°25	19°15	27° 0	29°51	11°18	15° 8	7°D 0	8°13	4° 1	19°39
F 27	22 20 32	3°36'57	24°19	17°32	17°58	25° 3	19°17	27° 8	29°53	11°20	15° 9	7° 0	8°10	4° 7	19°43
S 28	22 24 29	4°34'54	7♂13	19°14	18°53	25°42	19°19	27°15	29°55	11°21	15°11	7°R 1	8° 7	4°14	19°47
S 29	22 28 25	5°32'53	20°32	20°54	19°48	26°21	19°22	27°23	29°57	11°23	15°13	7° 0	8° 3	4°21	19°51
M30	22 32 22	6°30'54	4♂19	22°34	20°44	27° 0	19°24	27°31	29°59	11°25	15°15	6°57	8° 0	4°27	19°55
T 31	22 36 19	7♂28'57	18♂35	24♂12	21♂40	27♂39	19°A27	27♂38	0♂1	11♂27	15♂16	6♂51	7♂57	4°K34	19♂59

SWISS EPHEMERIS for the year 1948

SEPTEMBER 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	22 40 15	8 ^h 27'02"	3 ^h 17'	25 ^h 49'	22 ^h 37'	28 ^h 18'	19 ^h 30'	27 ^h 46'	0 ^h 22'	11 ^h 29'	15 ^h 18'	6 ^h R44	7 ^h 54'	4 ^h 41'	20 ^h 3
T 2	22 44 12	9 ^h 25'08"	18 ^h 21'	27 ^h 24'	23 ^h 34'	28 ^h 58'	19 ^h 33'	27 ^h 53'	0 ^h 4'	11 ^h 31'	15 ^h 20'	6 ^h 36'	7 ^h 51'	4 ^h 48'	20 ^h 8
F 3	22 48 8	10 ^h 23'16"	3 ^h 36'	28 ^h 59'	24 ^h 31'	29 ^h 37'	19 ^h 36'	28 ^h 1'	0 ^h 6'	11 ^h 33'	15 ^h 21'	6 ^h 27'	7 ^h 48'	4 ^h 54'	20 ^h 12
S 4	22 52 5	11 ^h 21'26"	18 ^h 53'	0 ^h 32'	25 ^h 29'	0 ^h 17'	19 ^h 39'	28 ^h 8'	0 ^h 8'	11 ^h 35'	15 ^h 23'	6 ^h 20'	7 ^h 44'	5 ^h 1'	20 ^h 17
S 5	22 56 1	12 ^h 19'38"	4 ^h 1'	2 ^h 4'	26 ^h 28'	0 ^h 56'	19 ^h 43'	28 ^h 16'	0 ^h 9'	11 ^h 37'	15 ^h 25'	6 ^h 14'	7 ^h 41'	5 ^h 8'	20 ^h 21
M 6	22 59 58	13 ^h 17'51"	18 ^h 49'	3 ^h 34'	27 ^h 27'	1 ^h 36'	19 ^h 46'	28 ^h 23'	0 ^h 11'	11 ^h 39'	15 ^h 26'	6 ^h 11'	7 ^h 38'	5 ^h 14'	20 ^h 26
T 7	23 3 54	14 ^h 16'06"	3 ^h 13'	5 ^h 4'	28 ^h 26'	2 ^h 15'	19 ^h 50'	28 ^h 31'	0 ^h 12'	11 ^h 41'	15 ^h 28'	6 ^h D 9	7 ^h 35'	5 ^h 21'	20 ^h 31
W 8	23 7 51	15 ^h 14'22"	17 ^h 9'	6 ^h 32'	29 ^h 26'	2 ^h 55'	19 ^h 54'	28 ^h 38'	0 ^h 14'	11 ^h 43'	15 ^h 30'	6 ^h 10'	7 ^h 32'	5 ^h 28'	20 ^h 36
T 9	23 11 48	16 ^h 12'40"	0 ^h 38'	7 ^h 59'	0 ^h 26'	3 ^h 35'	19 ^h 59'	28 ^h 46'	0 ^h 15'	11 ^h 45'	15 ^h 31'	6 ^h 11'	7 ^h 29'	5 ^h 34'	20 ^h 40
F 10	23 15 44	17 ^h 11'00"	13 ^h 41'	9 ^h 25'	1 ^h 26'	4 ^h 15'	20 ^h 3'	28 ^h 53'	0 ^h 17'	11 ^h 47'	15 ^h 33'	6 ^h R12	7 ^h 25'	5 ^h 41'	20 ^h 45
S 11	23 19 41	18 ^h 9'21"	26 ^h 23'	10 ^h 49'	2 ^h 27'	4 ^h 55'	20 ^h 8'	29 ^h 1'	0 ^h 18'	11 ^h 49'	15 ^h 34'	6 ^h 11'	7 ^h 22'	5 ^h 48'	20 ^h 51
S 12	23 23 37	19 ^h 7'43"	8 ^h 348'	12 ^h 12'	3 ^h 28'	5 ^h 35'	20 ^h 12'	29 ^h 8'	0 ^h 19'	11 ^h 51'	15 ^h 36'	6 ^h 9'	7 ^h 19'	5 ^h 55'	20 ^h 56
M13	23 27 34	20 ^h 6'07"	20 ^h 59'	13 ^h 34'	4 ^h 30'	6 ^h 16'	20 ^h 17'	29 ^h 15'	0 ^h 20'	11 ^h 53'	15 ^h 38'	6 ^h 5'	7 ^h 16'	6 ^h 1'	21 ^h 1
T 14	23 31 30	21 ^h 4'33"	3 ^h 31'	14 ^h 55'	5 ^h 32'	6 ^h 56'	20 ^h 22'	29 ^h 23'	0 ^h 22'	11 ^h 55'	15 ^h 39'	5 ^h 59'	7 ^h 13'	6 ^h 8'	21 ^h 6
W15	23 35 27	22 ^h 3'01"	14 ^h 56'	16 ^h 14'	6 ^h 34'	7 ^h 36'	20 ^h 28'	29 ^h 30'	0 ^h 23'	11 ^h 58'	15 ^h 41'	5 ^h 52'	7 ^h 9'	6 ^h 15'	21 ^h 12
T 16	23 39 23	23 ^h 1'30"	26 ^h 49'	17 ^h 31'	7 ^h 37'	8 ^h 17'	20 ^h 33'	29 ^h 37'	0 ^h 24'	12 ^h 0'	15 ^h 42'	5 ^h 44'	7 ^h 6'	6 ^h 21'	21 ^h 17
F 17	23 43 20	24 ^h 0'01"	8 ^h 41'	18 ^h 47'	8 ^h 39'	8 ^h 57'	20 ^h 39'	29 ^h 44'	0 ^h 25'	12 ^h 2'	15 ^h 44'	5 ^h 36'	7 ^h 3'	6 ^h 28'	21 ^h 22
S 18	23 47 17	24 ^h 58'33"	20 ^h 33'	20 ^h 2'	9 ^h 43'	9 ^h 38'	20 ^h 44'	29 ^h 51'	0 ^h 26'	12 ^h 4'	15 ^h 45'	5 ^h 28'	7 ^h 0'	6 ^h 35'	21 ^h 28
S 19	23 51 13	25 ^h 57'08"	2 ^h 28'	21 ^h 14'	10 ^h 46'	10 ^h 18'	20 ^h 50'	29 ^h 59'	0 ^h 27'	12 ^h 6'	15 ^h 47'	5 ^h 23'	6 ^h 57'	6 ^h 42'	21 ^h 34
M20	23 55 10	26 ^h 55'44"	14 ^h 28'	22 ^h 25'	11 ^h 50'	10 ^h 59'	20 ^h 56'	0 ^h 28'	0 ^h 28'	12 ^h 8'	15 ^h 48'	5 ^h 19'	6 ^h 54'	6 ^h 48'	21 ^h 39
T 21	23 59 6	27 ^h 54'23"	26 ^h 34'	23 ^h 35'	12 ^h 54'	11 ^h 40'	21 ^h 2'	0 ^h 13'	0 ^h 29'	12 ^h 10'	15 ^h 50'	5 ^h 17'	6 ^h 50'	6 ^h 55'	21 ^h 45
W22	0 3 3	28 ^h 53'04"	8 ^h 49'	24 ^h 42'	13 ^h 58'	12 ^h 21'	21 ^h 9'	0 ^h 20'	0 ^h 29'	12 ^h 13'	15 ^h 51'	5 ^h D16	6 ^h 47'	7 ^h 2'	21 ^h 51
T 23	0 6 59	29 ^h 51'46"	21 ^h 14'	25 ^h 47'	15 ^h 3'	13 ^h 2'	21 ^h 15'	0 ^h 27'	0 ^h 30'	12 ^h 15'	15 ^h 52'	5 ^h 17'	6 ^h 44'	7 ^h 8'	21 ^h 57
F 24	0 10 56	0 ^h 50'32"	3 ^h 11'54"	26 ^h 50'	16 ^h 8'	13 ^h 43'	21 ^h 22'	0 ^h 34'	0 ^h 31'	12 ^h 17'	15 ^h 54'	5 ^h 19'	6 ^h 41'	7 ^h 15'	22 ^h 3
S 25	0 14 52	1 ^h 49'19"	16 ^h 51'	27 ^h 50'	17 ^h 13'	14 ^h 24'	21 ^h 29'	0 ^h 41'	0 ^h 31'	12 ^h 19'	15 ^h 55'	5 ^h 20'	6 ^h 38'	7 ^h 22'	22 ^h 9
S 26	0 18 49	2 ^h 48'09"	0 ^h 8'	28 ^h 49'	18 ^h 18'	15 ^h 6'	21 ^h 36'	0 ^h 48'	0 ^h 32'	12 ^h 21'	15 ^h 56'	5 ^h R21	6 ^h 34'	7 ^h 28'	22 ^h 15
M27	0 22 46	3 ^h 47'01"	13 ^h 48'	29 ^h 44'	19 ^h 24'	15 ^h 47'	21 ^h 43'	0 ^h 55'	0 ^h 32'	12 ^h 24'	15 ^h 58'	5 ^h 21'	6 ^h 31'	7 ^h 35'	22 ^h 21
T 28	0 26 42	4 ^h 45'55"	27 ^h 52'	0 ^h 136'	20 ^h 30'	16 ^h 28'	21 ^h 50'	1 ^h 1'	0 ^h 33'	12 ^h 26'	15 ^h 59'	5 ^h 19'	6 ^h 28'	7 ^h 42'	22 ^h 27
W29	0 30 39	5 ^h 44'52"	12 ^h 19'	1 ^h 25'	21 ^h 36'	17 ^h 10'	21 ^h 57'	1 ^h 8'	0 ^h 33'	12 ^h 28'	16 ^h 0'	5 ^h 16'	6 ^h 25'	7 ^h 49'	22 ^h 34
T 30	0 34 35	6 ^h 43'51"	27 ^h 12'	2 ^h 111'	22 ^h 42'	17 ^h 151'	22 ^h 57'	1 ^h 15'	0 ^h 34'	12 ^h 30'	16 ^h 12'	5 ^h 12'	6 ^h 22'	7 ^h 55'	22 ^h 40

Delta T = 28.56 sec.

OCTOBER 1948

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	0 38 32	7 ^h 42'52"	12 ^h 06'	2 ^h 152'	23 ^h 49'	18 ^h 133'	22 ^h 12'	1 ^h 22'	0 ^h 34'	12 ^h 33'	16 ^h 03'	5 ^h R 8	6 ^h 19'	8 ^h 42'	22 ^h 46'
S 2	0 42 28	8 ^h 41'55"	27 ^h 11'	3 ^h 30'	24 ^h 56'	19 ^h 15'	22 ^h 20'	1 ^h 28'	0 ^h 34'	12 ^h 35'	16 ^h 04'	5 ^h 05'	6 ^h 15'	8 ^h 09'	22 ^h 53'
S 3	0 46 25	9 ^h 41'00"	12 ^h 11'	4 ^h 03'	26 ^h 03'	19 ^h 57'	22 ^h 28'	1 ^h 35'	0 ^h 35'	12 ^h 37'	16 ^h 05'	5 ^h 02'	6 ^h 12'	8 ^h 15'	22 ^h 59'
M 4	0 50 21	10 ^h 40'08"	26 ^h 59'	4 ^h 31'	27 ^h 10'	20 ^h 38'	22 ^h 36'	1 ^h 41'	0 ^h 35'	12 ^h 39'	16 ^h 06'	5 ^h 01'	6 ^h 09'	8 ^h 22'	23 ^h 06'
T 5	0 54 18	11 ^h 39'17"	11 ^h 126'	4 ^h 54'	28 ^h 17'	21 ^h 20'	22 ^h 44'	1 ^h 48'	0 ^h 35'	12 ^h 41'	16 ^h 08'	5 ^h D 1	6 ^h 06'	8 ^h 29'	23 ^h 12'
W 6	0 58 14	12 ^h 38'28"	25 ^h 28'	5 ^h 11'	29 ^h 25'	22 ^h 02'	22 ^h 53'	1 ^h 54'	0 ^h R35	12 ^h 44'	16 ^h 09'	5 ^h 02'	6 ^h 03'	8 ^h 35'	23 ^h 19'
T 7	1 2 11	13 ^h 37'41"	9 ^h 34'	5 ^h 21'	0 ^h 33'	22 ^h 45'	23 ^h 01'	2 ^h 01'	0 ^h 35'	12 ^h 46'	16 ^h 10'	5 ^h 03'	6 ^h 00'	8 ^h 42'	23 ^h 26'
F 8	1 6 8	14 ^h 36'56"	22 ^h 14'	5 ^h R25	1 ^h 41'	23 ^h 27'	23 ^h 10'	2 ^h 07'	0 ^h 35'	12 ^h 48'	16 ^h 11'	5 ^h 05'	5 ^h 56'	8 ^h 49'	23 ^h 32'
S 9	1 10 4	15 ^h 36'13"	5 ^h 30'	5 ^h 22'	2 ^h 49'	24 ^h 09'	23 ^h 18'	2 ^h 13'	0 ^h 35'	12 ^h 50'	16 ^h 12'	5 ^h 06'	5 ^h 53'	8 ^h 56'	23 ^h 39'
S 10	1 14 1	16 ^h 35'32"	17 ^h 27'	5 ^h 11'	3 ^h 57'	24 ^h 51'	23 ^h 27'	2 ^h 19'	0 ^h 34'	12 ^h 53'	16 ^h 13'	5 ^h R 6	5 ^h 50'	9 ^h 02'	23 ^h 46'
M11	1 17 57	17 ^h 34'52"	29 ^h 39'	4 ^h 52'	5 ^h 06'	25 ^h 34'	23 ^h 36'	2 ^h 26'	0 ^h 34'	12 ^h 55'	16 ^h 14'	5 ^h 05'	5 ^h 47'	9 ^h 09'	23 ^h 53'
T 12	1 21 54	18 ^h 34'14"	11 ^h 339'	4 ^h 25'	6 ^h 14'	26 ^h 16'	23 ^h 45'	2 ^h 32'	0 ^h 34'	12 ^h 57'	16 ^h 15'	5 ^h 04'	5 ^h 44'	9 ^h 16'	24 ^h 00'
W13	1 25 50	19 ^h 33'38"	23 ^h 33'	3 ^h 50'	7 ^h 23'	26 ^h 59'	23 ^h 54'	2 ^h 38'	0 ^h 34'	12 ^h 59'	16 ^h 16'	5 ^h 02'	5 ^h 40'	9 ^h 22'	24 ^h 07'
T 14	1 29 47	20 ^h 33'04"	5 ^h 24'	3 ^h 06'	8 ^h 32'	27 ^h 41'	24 ^h 04'	2 ^h 44'	0 ^h 33'	13 ^h 02'	16 ^h 17'	5 ^h 00'	5 ^h 37'	9 ^h 29'	24 ^h 14'
F 15	1 33 43	21 ^h 32'31"	17 ^h 16'	2 ^h 14'	9 ^h 42'	28 ^h 24'	24 ^h 13'	2 ^h 50'	0 ^h 33'	13 ^h 04'	16 ^h 18'	4 ^h 58'	5 ^h 34'	9 ^h 36'	24 ^h 21'
S 16	1 37 40	22 ^h 32'00"	29 ^h 12'	1 ^h 15'	10 ^h 51'	29 ^h 07'	24 ^h 23'	2 ^h 56'	0 ^h 32'	13 ^h 06'	16 ^h 19'	4 ^h 56'	5 ^h 31'	9 ^h 42'	24 ^h 28'
S 17	1 41 37	23 ^h 31'31"	11 ^h 14'	0 ^h 10'	12 ^h 00'	29 ^h 50'	24 ^h 32'	3 ^h 01'	0 ^h 32'	13 ^h 08'	16 ^h 20'	4 ^h 55'	5 ^h 28'	9 ^h 49'	24 ^h 35'
M18	1 45 33	24 ^h 31'05"	23 ^h 24'	29 ^h 00'	13 ^h 10'	0 ^h 333'	24 ^h 42'	3 ^h 07'	0 ^h 31'	13 ^h 10'	16 ^h 21'	4 ^h 54'	5 ^h 25'	9 ^h 56'	24 ^h 42'
T 19	1 49 30	25 ^h 30'40"	5 ^h 43'	27 ^h 47'	14 ^h 20'	1 ^h 16'	24 ^h 52'	3 ^h 13'	0 ^h 31'	13 ^h 13'	16 ^h 21'	4 ^h D54	5 ^h 21'	10 ^h 03'	24 ^h 50'
W20	1 53 26	26 ^h 30'17"	18 ^h 14'	26 ^h 32'	15 ^h 30'	1 ^h 59'	25 ^h 02'	3 ^h 18'	0 ^h 30'	13 ^h 15'	16 ^h 22'	4 ^h 54'	5 ^h 18'	10 ^h 09'	24 ^h 57'
T 21	1 57 23	27 ^h 29'57"	0 ^h 1156'	25 ^h 18'	16 ^h 40'	2 ^h 42'	25 ^h 12'	3 ^h 24'	0 ^h 29'	13 ^h 17'	16 ^h 23'	4 ^h 54'	5 ^h 15'	10 ^h 16'	25 ^h 04'
F 22	2 1 19	28 ^h 29'39"	13 ^h 52'	24 ^h 08'	17 ^h 50'	3 ^h 25'	25 ^h 22'	3 ^h 29'	0 ^h 28'	13 ^h 19'	16 ^h 24'	4 ^h 55'	5 ^h 12'	10 ^h 23'	25 ^h 11'
S 23	2 5 16	29 ^h 29'22"	27 ^h 02'	23 ^h 02'	19 ^h 01'	4 ^h 08'	25 ^h 33'	3 ^h 35'	0 ^h 28'	13 ^h 21'	16 ^h 25'	4 ^h 56'	5 ^h 09'	10 ^h 29'	25 ^h 19'
S 24	2 9 12	0 ^h 129'09"	10 ^h 328'	22 ^h 04'	20 ^h 11'	4 ^h 52'	25 ^h 43'	3 ^h 40'	0 ^h 27'	13 ^h 23'	16 ^h 25'	4 ^h 56'	5 ^h 06'	10 ^h 36'	25 ^h 26'
M25	2 13 9	1 ^h 28'57"	24 ^h 028'	21 ^h 15'	21 ^h 22'	5 ^h 35'	25 ^h 53'	3 ^h 45'	0 ^h 26'	13 ^h 26'	16 ^h 26'	4 ^h 56'	5 ^h 02'	10 ^h 43'	25 ^h 34'
T 26	2 17 6	2 ^h 28'48"	8 ^h 045'	20 ^h 36'	22 ^h 33'	6 ^h 19'	26 ^h 04'	3 ^h 50'	0 ^h 25'	13 ^h 28'	16 ^h 27'	4 ^h R56	4 ^h 59'	10 ^h 49'	25 ^h 41'
W27	2 21 2	3 ^h 28'41"	22 ^h 17'	20 ^h 08'	23 ^h 44'	7 ^h 02'	26 ^h 15'	3 ^h 56'	0 ^h 24'	13 ^h 30'	16 ^h 27'	4 ^h 56'	4 ^h 56'	10 ^h 56'	25 ^h 49'
T 28	2 24 59	4 ^h 28'36"	6 ^h 124'	19 ^h 51'	24 ^h 55'	7 ^h 46'	26 ^h 26'	4 ^h 01'	0 ^h 23'	13 ^h 32'	16 ^h 28'	4 ^h D56	4 ^h 53'	11 ^h 03'	25 ^h 56'
F 29	2 28 55	5 ^h 28'33"	21 ^h 17'	19 ^h D46	26 ^h 06'	8 ^h 29'	26 ^h 36'	4 ^h 05'	0 ^h 22'	13 ^h 34'	16 ^h 28'	4 ^h 56'	4 ^h 50'	11 ^h 10'	26 ^h 04'
S 30	2 32 52	6 ^h 28'32"	5 ^h 157'	19 ^h 52'	27 ^h 17'	9 ^h 13'	26 ^h 47'	4 ^h 10'	0 ^h 20'	13 ^h 36'	16 ^h 29'	4 ^h 56'	4 ^h 46'	11 ^h 16'	26 ^h 11'
S 31	2 36 48	7 ^h 128'34"	20 ^h 136'	20 ^h 18'	28 ^h 129'	9 ^h 357'	26 ^h 358'	4 ^h 115'	0 ^h 319'	13 ^h 138'	16 ^h 129'	4 ^h 56'	4 ^h 43'	11 ^h 323'	26 ^h 119'

SWISS EPHEMERIS for the year 1948

NOVEMBER 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	2 40 45	8♈28°37'	5♈ 6	20♈35	29♈40	10♈41	27♈10	4♈20	0°R18	13♈40	16♈30	4°R56	4♈40	11♈30	26♈26
T 2	2 44 41	9°28'43"	19°23	21°11	0♈52	11°25	27°21	4°24	0♈17	13°42	16°30	4♈56	4°37	11°36	26°34
W 3	2 48 38	10°28'50"	3♈22	21°56	2° 3	12° 9	27°32	4°29	0°15	13°45	16°31	4°56	4°34	11°43	26°42
T 4	2 52 35	11°28'59"	16°58	22°47	3°15	12°53	27°44	4°33	0°14	13°47	16°31	4°55	4°31	11°50	26°49
F 5	2 56 31	12°29'10"	0♈11	23°46	4°27	13°37	27°55	4°38	0°12	13°49	16°32	4°54	4°27	11°56	26°57
S 6	3 0 28	13°29'22"	13° 2	24°50	5°39	14°21	28° 7	4°42	0°11	13°51	16°32	4°53	4°24	12° 3	27° 5
S 7	3 4 24	14°29'36"	25°33	26° 0	6°51	15° 6	28°18	4°46	0° 9	13°53	16°32	4°52	4°21	12°10	27°12
M 8	3 8 21	15°29'51"	7♈47	27°14	8° 4	15°50	28°30	4°50	0° 8	13°55	16°33	4°52	4°18	12°16	27°20
T 9	3 12 17	16°30'08"	19°48	28°31	9°16	16°34	28°42	4°54	0° 6	13°57	16°33	4°D52	4°15	12°23	27°28
W10	3 16 14	17°30'26"	1♈42	29°52	10°28	17°19	28°54	4°58	0° 4	13°59	16°33	4°52	4°12	12°30	27°35
T 11	3 20 10	18°30'46"	13°33	1♈15	11°41	18° 3	29° 6	5° 2	0° 3	14° 0	16°33	4°53	4° 8	12°37	27°43
F 12	3 24 7	19°31'07"	25°25	2°41	12°53	18°48	29°18	5° 6	0° 1	14° 2	16°33	4°54	4° 5	12°43	27°51
S 13	3 28 4	20°31'30"	7♈24	4° 9	14° 6	19°33	29°30	5° 9	29♈59	14° 4	16°34	4°56	4° 2	12°50	27°59
S 14	3 32 0	21°31'54"	19°32	5°38	15°19	20°17	29°42	5°13	29°57	14° 6	16°34	4°57	3°59	12°57	28° 7
M15	3 35 57	22°32'19"	1♈52	7° 8	16°31	21° 2	29°55	5°16	29°56	14° 8	16°34	4°R58	3°56	13° 3	28°14
T 16	3 39 53	23°32'46"	14°27	8°39	17°44	21°47	0♈ 7	5°20	29°54	14°10	16°34	4°57	3°52	13°10	28°22
W17	3 43 50	24°33'15"	27°17	10°11	18°57	22°32	0°19	5°23	29°52	14°12	16°34	4°56	3°49	13°17	28°30
T 18	3 47 46	25°33'45"	10♈22	11°44	20°10	23°17	0°32	5°26	29°50	14°13	16°R34	4°54	3°46	13°23	28°38
F 19	3 51 43	26°34'17"	23°42	13°17	21°23	24° 2	0°44	5°29	29°48	14°15	16°34	4°51	3°43	13°30	28°46
S 20	3 55 39	27°34'51"	7♈16	14°51	22°37	24°47	0°57	5°32	29°46	14°17	16°34	4°47	3°40	13°37	28°53
S 21	3 59 36	28°35'26"	21° 1	16°25	23°50	25°32	1° 9	5°35	29°44	14°19	16°34	4°44	3°37	13°44	29° 1
M22	4 3 33	29°36'03"	4♈55	17°59	25° 3	26°17	1°22	5°38	29°42	14°20	16°34	4°41	3°33	13°50	29° 9
T 23	4 7 29	0♈36'42"	18°57	19°34	26°17	27° 2	1°35	5°41	29°39	14°22	16°34	4°40	3°30	13°57	29°17
W24	4 11 26	1°37'22"	3♈ 4	21° 8	27°30	27°48	1°48	5°43	29°37	14°24	16°33	4°D39	3°27	14° 4	29°25
T 25	4 15 22	2°38'04"	17°14	22°42	28°44	28°33	2° 1	5°46	29°35	14°25	16°33	4°40	3°24	14°10	29°32
F 26	4 19 19	3°38'47"	1♈27	24°17	29°57	29°18	2°14	5°48	29°33	14°27	16°33	4°41	3°21	14°17	29°40
S 27	4 23 15	4°39'32"	15°40	25°51	1♈11	0♈ 4	2°27	5°50	29°31	14°29	16°33	4°43	3°18	14°24	29°48
S 28	4 27 12	5°40'19"	29°49	27°26	2°25	0°49	2°40	5°52	29°28	14°30	16°32	4°R44	3°14	14°30	29°56
M29	4 31 8	6°41'07"	13♈53	29° 0	3°38	1°35	2°53	5°54	29°26	14°32	16°32	4°43	3°11	14°37	0♈ 4
T 30	4 35 5	7♈41'57"	27♈47	0♈35	4♈52	2♈21	3♈ 6	5♈56	29♈24	14♈33	16♈32	4♈42	3♈ 8	14♈44	0♈11

Delta T = 28.63 sec.

DECEMBER 1948

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	4 39 2	8♈42'48"	11♈28	2♈ 9	6♈ 6	3♈ 6	3♈19	5♈58	29°R21	14♈35	16°R31	4°R38	3♈ 5	14♈50	0♈19
T 2	4 42 58	9°43'40"	24°54	3°43	7°20	3°52	3°32	6° 0	29♈19	14°36	16♈31	4♈33	3° 2	14°57	0°27
F 3	4 46 55	10°44'33"	8♈ 1	5°18	8°34	4°38	3°45	6° 1	29°17	14°38	16°31	4°26	2°58	15° 4	0°35
S 4	4 50 51	11°45'28"	20°50	6°52	9°48	5°24	3°59	6° 3	29°14	14°39	16°30	4°19	2°55	15°10	0°42
S 5	4 54 48	12°46'23"	3♈21	8°26	11° 2	6° 9	4°12	6° 4	29°12	14°40	16°30	4°13	2°52	15°17	0°50
M 6	4 58 44	13°47'18"	15°36	10° 0	12°16	6°55	4°25	6° 6	29° 9	14°42	16°29	4° 8	2°49	15°24	0°58
T 7	5 2 41	14°48'15"	27°38	11°34	13°30	7°41	4°39	6° 7	29° 7	14°43	16°29	4° 4	2°46	15°31	1° 5
W 8	5 6 38	15°49'12"	9♈32	13° 9	14°44	8°27	4°52	6° 8	29° 4	14°44	16°28	4° 3	2°43	15°37	1°13
T 9	5 10 34	16°50'10"	21°22	14°43	15°58	9°13	5° 6	6° 9	29° 2	14°46	16°28	4°D 2	2°39	15°44	1°21
F 10	5 14 31	17°51'09"	3♈13	16°17	17°13	10° 0	5°19	6°10	28°59	14°47	16°27	4° 4	2°36	15°51	1°28
S 11	5 18 27	18°52'08"	15°12	17°51	18°27	10°46	5°33	6°10	28°57	14°48	16°26	4° 5	2°33	15°57	1°36
S 12	5 22 24	19°53'07"	27°22	19°26	19°41	11°32	5°46	6°11	28°54	14°49	16°26	4° 6	2°30	16° 4	1°43
M13	5 26 20	20°54'08"	9♈48	21° 0	20°56	12°18	6° 0	6°11	28°52	14°50	16°25	4°R 6	2°27	16°11	1°51
T 14	5 30 17	21°55'09"	22°33	22°34	22°10	13° 4	6°14	6°12	28°49	14°52	16°24	4° 5	2°24	16°17	1°58
W15	5 34 13	22°56'11"	5♈39	24° 9	23°24	13°51	6°27	6°12	28°47	14°53	16°24	4° 1	2°20	16°24	2° 6
T 16	5 38 10	23°57'13"	19° 6	25°44	24°39	14°37	6°41	6°12	28°44	14°54	16°23	3°54	2°17	16°31	2°13
F 17	5 42 7	24°58'16"	2♈53	27°19	25°53	15°23	6°55	6°R12	28°42	14°55	16°22	3°46	2°14	16°37	2°21
S 18	5 46 3	25°59'19"	16°56	28°54	27° 8	16°10	7° 8	6°12	28°39	14°56	16°21	3°37	2°11	16°44	2°28
S 19	5 50 0	27° 0'24"	1♈10	0♈29	28°22	16°56	7°22	6°12	28°36	14°57	16°21	3°28	2° 8	16°51	2°35
M20	5 53 56	28° 1'29"	15°29	2° 4	29°37	17°43	7°36	6°12	28°34	14°58	16°20	3°21	2° 4	16°57	2°43
T 21	5 57 53	29° 2'35"	29°49	3°39	0♈51	18°29	7°50	6°11	28°31	14°59	16°19	3°15	2° 1	17° 4	2°50
W22	6 1 49	0♈ 3'41"	14♈ 5	5°15	2° 6	19°16	8° 4	6°11	28°29	15° 0	16°18	3°11	1°58	17°11	2°57
T 23	6 5 46	1° 4'48"	28°15	6°51	3°21	20° 3	8°17	6°10	28°26	15° 0	16°17	3°D10	1°55	17°18	3° 4
F 24	6 9 42	2° 5'56"	12♈17	8°27	4°35	20°49	8°31	6°10	28°24	15° 1	16°16	3°10	1°52	17°24	3°11
S 25	6 13 39	3° 7'04"	26°11	10° 3	5°50	21°36	8°45	6° 9	28°21	15° 2	16°15	3°R11	1°49	17°31	3°18
S 26	6 17 36	4° 8'14"	9♈56	11°40	7° 5	22°23	8°59	6° 8	28°18	15° 3	16°14	3°11	1°45	17°38	3°26
M27	6 21 32	5° 9'24"	23°33	13°17	8°19	23°10	9°13	6° 7	28°16	15° 3	16°13	3° 9	1°42	17°44	3°33
T 28	6 25 29	6°10'34"	7♈ 0	14°53	9°34	23°56	9°27	6° 6	28°13	15° 4	16°12	3° 5	1°39	17°51	3°40
W29	6 29 25	7°11'45"	20°17	16°30	10°49	24°43	9°41	6° 4	28°11	15° 5	16°11	2°57	1°36	17°58	3°47
T 30	6 33 22	8°12'56"	3♈23	18° 7	12° 4	25°30	9°55	6° 3	28° 8	15° 5	16°10	2°47	1°33	18° 4	3°53
F 31	6 37 18	9♈14'07"	16♈15	19♈44	13♈19	26♈17	10♈ 8	6♈ 1	28♈ 6	15♈ 6	16♈ 9	2♈35	1♈30	18♈11	4♈ 0

Delta T = 28.67 sec.

created from Swiss Ephemeris, Copyright Astrodiens AG [11.2.2014]