

# SWISS EPHEMERIS for the year 1968

## JANUARY 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	6 38 53	9°37'43	20°57	11°32	28°52	23°26	5°R41	6°Y 6	29°13	25°38	22°R51	24°R46	24°Y 0	11°8 9	25°34
T 2	6 42 49	10°38'54	5°0	13° 1	0°X 4	24°13	5°140	6° 9	29°13	25°40	22°51	24°Y34	23°56	11°15	25°36
W 3	6 46 46	11°40'05	18°38	14°39	1°16	25° 0	5°37	6°11	29°13	25°42	22°51	24°23	23°53	11°22	25°37
T 4	6 50 42	12°41'15	1°X51	16°16	2°28	25°47	5°35	6°14	29°R13	25°44	22°50	24°15	23°50	11°29	25°39
F 5	6 54 39	13°42'26	14°39	17°54	3°40	26°34	5°32	6°17	29°13	25°45	22°50	24° 9	23°47	11°35	25°40
S 6	6 58 36	14°43'36	27° 4	19°33	4°52	27°20	5°30	6°20	29°13	25°47	22°50	24° 6	23°44	11°42	25°42
S 7	7 2 32	15°44'46	9°Y12	21°11	6° 4	28° 7	5°27	6°23	29°13	25°49	22°49	24° 4	23°41	11°49	25°43
M 8	7 6 29	16°45'55	21° 7	22°50	7°16	28°54	5°24	6°26	29°13	25°50	22°49	24° 4	23°37	11°55	25°45
T 9	7 10 25	17°47'04	2°X56	24°30	8°29	29°41	5°20	6°29	29°12	25°52	22°49	24° 4	23°34	12° 2	25°47
W10	7 14 22	18°48'12	14°43	26° 9	9°41	0°X28	5°17	6°32	29°12	25°53	22°48	24° 3	23°31	12° 9	25°49
T 11	7 18 18	19°49'20	26°34	27°49	10°53	1°14	5°13	6°36	29°12	25°55	22°48	23°59	23°28	12°15	25°50
F 12	7 22 15	20°50'28	8°II34	29°29	12° 6	2° 1	5° 9	6°39	29°11	25°56	22°47	23°53	23°25	12°22	25°52
S 13	7 26 11	21°51'35	20°45	1°X10	13°18	2°48	5° 5	6°43	29°11	25°58	22°46	23°43	23°21	12°29	25°54
S 14	7 30 8	22°52'42	3°X11	2°50	14°31	3°35	5° 1	6°46	29°10	25°59	22°46	23°32	23°18	12°35	25°56
M15	7 34 5	23°53'48	15°53	4°31	15°44	4°22	4°57	6°50	29°10	26° 1	22°45	23°18	23°15	12°42	25°58
T 16	7 38 1	24°54'54	28°49	6°11	16°56	5° 8	4°52	6°54	29° 9	26° 2	22°45	23° 4	23°12	12°49	26° 0
W17	7 41 58	25°55'59	12°II 0	7°51	18° 9	5°55	4°48	6°58	29° 9	26° 3	22°44	22°51	23° 9	12°55	26° 2
T 18	7 45 54	26°57'03	25°24	9°31	19°22	6°42	4°43	7° 2	29° 8	26° 5	22°43	22°39	23° 6	13° 2	26° 4
F 19	7 49 51	27°58'08	8°II57	11°11	20°35	7°28	4°38	7° 6	29° 7	26° 6	22°42	22°31	23° 2	13° 8	26° 7
S 20	7 53 47	28°59'12	22°39	12°50	21°48	8°15	4°33	7°10	29° 6	26° 7	22°42	22°26	22°59	13°15	26° 9
S 21	7 57 44	0°X 0'15	6°X28	14°27	23° 1	9° 2	4°27	7°15	29° 5	26° 8	22°41	22°23	22°56	13°22	26°11
M22	8 1 40	1° 1'18	20°23	16° 4	24°14	9°48	4°22	7°19	29° 4	26°10	22°40	22°D22	22°53	13°28	26°13
T 23	8 5 37	2° 2'21	4°II25	17°40	25°27	10°35	4°16	7°23	29° 3	26°11	22°39	22°R22	22°50	13°35	26°16
W24	8 9 34	3° 3'23	18°32	19°13	26°40	11°22	4°10	7°28	29° 2	26°12	22°38	22°22	22°47	13°42	26°18
T 25	8 13 30	4° 4'25	2°X44	20°44	27°53	12° 8	4° 5	7°32	29° 1	26°13	22°37	22°19	22°43	13°48	26°21
F 26	8 17 27	5° 5'27	16°59	22°13	29° 6	12°55	3°59	7°37	29° 0	26°14	22°36	22°14	22°40	13°55	26°23
S 27	8 21 23	6° 6'28	1°X13	23°38	0°X20	13°41	3°52	7°42	28°59	26°15	22°35	22° 5	22°37	14° 2	26°26
S 28	8 25 20	7° 7'29	15°22	24°59	1°33	14°28	3°46	7°47	28°58	26°16	22°34	21°55	22°34	14° 8	26°28
M29	8 29 16	8° 8'28	29°22	26°16	2°46	15°15	3°40	7°52	28°56	26°17	22°33	21°43	22°31	14°15	26°31
T 30	8 33 13	9° 9'27	13°X 7	27°27	4° 0	16° 1	3°33	7°57	28°55	26°18	22°32	21°30	22°27	14°22	26°33
W31	8 37 10	10°10'24	26°X33	28°X33	5°X13	16°X48	3°1126	8°Y 2	28°54	26°19	22°31	21°Y19	22°Y24	14°X28	26°X36

Delta T = 38.29 sec.

## FEBRUARY 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 41 6	11°11'21	9°X38	29°X32	6°X26	17°X34	3°R20	8°Y 7	28°R52	26°M20	22°R30	21°R10	22°Y21	14°X35	26°X39
F 2	8 45 3	12°12'16	22°23	0°X22	7°40	18°21	3°113	8°12	28°51	26°21	22°29	21°Y 4	22°18	14°42	26°41
S 3	8 48 59	13°13'10	4°Y48	1° 5	8°53	19° 7	3° 6	8°18	28°49	26°22	22°28	21° 0	22°15	14°48	26°44
S 4	8 52 56	14°14'03	16°57	1°38	10° 7	19°53	2°59	8°23	28°48	26°23	22°27	20°D59	22°12	14°55	26°47
M 5	8 56 52	15°14'54	28°53	2° 2	11°20	20°40	2°51	8°28	28°46	26°23	22°26	20°59	22° 8	15° 2	26°50
T 6	9 0 49	16°15'44	10°X43	2°15	12°34	21°26	2°44	8°34	28°44	26°24	22°24	20°R59	22° 5	15° 8	26°53
W 7	9 4 45	17°16'32	22°31	2°R17	13°47	22°12	2°37	8°40	28°43	26°25	22°23	20°59	22° 2	15°15	26°56
T 8	9 8 42	18°17'20	4°II24	2° 8	15° 1	22°59	2°29	8°45	28°41	26°25	22°22	20°58	22° 1	15°22	26°59
F 9	9 12 38	19°18'05	16°25	1°48	16°14	23°45	2°22	8°51	28°39	26°26	22°21	20°54	21°56	15°28	27° 2
S 10	9 16 35	20°18'49	28°40	1°18	17°28	24°31	2°14	8°57	28°37	26°27	22°19	20°48	21°53	15°35	27° 5
S 11	9 20 32	21°19'32	11°X13	0°38	18°41	25°17	2° 7	9° 3	28°35	26°27	22°18	20°39	21°49	15°42	27° 8
M12	9 24 28	22°20'13	24° 5	29°X49	19°55	26° 3	1°59	9° 9	28°33	26°28	22°17	20°29	21°46	15°48	27°11
T 13	9 28 25	23°20'52	7°II17	28°53	21° 9	26°50	1°51	9°15	28°31	26°28	22°15	20°19	21°43	15°55	27°14
W14	9 32 21	24°21'30	20°48	27°50	22°22	27°36	1°43	9°21	28°30	26°29	22°14	20° 9	21°40	16° 2	27°17
T 15	9 36 18	25°22'07	4°II36	26°44	23°36	28°22	1°36	9°27	28°27	26°29	22°13	20° 1	21°37	16° 8	27°20
F 16	9 40 14	26°22'42	18°36	25°35	24°50	29° 8	1°28	9°33	28°25	26°30	22°11	19°54	21°33	16°15	27°23
S 17	9 44 11	27°23'16	2°X45	24°26	26° 4	29°54	1°20	9°39	28°23	26°30	22°10	19°51	21°30	16°22	27°26
S 18	9 48 7	28°23'48	16°58	23°19	27°17	0°Y40	1°12	9°45	28°21	26°30	22° 8	19°D49	21°27	16°28	27°29
M19	9 52 4	29°24'19	1°II11	22°14	28°31	1°26	1° 4	9°52	28°19	26°31	22° 7	19°50	21°24	16°35	27°33
T 20	9 56 1	0°X24'49	15°23	21°13	29°45	2°11	0°56	9°58	28°17	26°31	22° 6	19°51	21°21	16°41	27°36
W21	9 59 57	1°25'18	29°32	20°18	0°X59	2°57	0°48	10° 4	28°15	26°31	22° 4	19°R52	21°18	16°48	27°39
T 22	10 3 54	2°25'45	13°X36	19°29	2°12	3°43	0°40	10°11	28°12	26°31	22° 3	19°51	21°14	16°55	27°42
F 23	10 7 50	3°26'12	27°34	18°47	3°26	4°29	0°33	10°17	28°10	26°32	22° 1	19°48	21°11	17° 1	27°46
S 24	10 11 47	4°26'36	11°X25	18°12	4°40	5°15	0°25	10°24	28° 8	26°32	22° 0	19°44	21° 8	17° 8	27°49
S 25	10 15 43	5°27'00	25° 7	17°45	5°54	6° 0	0°17	10°31	28° 6	26°32	21°58	19°38	21° 5	17°15	27°52
M26	10 19 40	6°27'22	8°X39	17°25	7° 8	6°46	0° 9	10°37	28° 3	26°32	21°57	19°30	21° 2	17°21	27°56
T 27	10 23 37	7°27'42	21°58	17°12	8°22	7°32	0° 1	10°44	28° 1	26°R32	21°55	19°22	20°59	17°28	27°59
W28	10 27 33	8°28'01	5°X 2	17°D 6	9°36	8°17	29°X53	10°51	27°58	26°32	21°53	19°15	20°55	17°35	28° 3
T 29	10 31 30	9°X28'17	17°X51	17°X 7	10°X50	9°Y 3	29°X46	10°Y58	27°56	26°M32	21°52	19°Y10	20°Y52	17°X41	28°X 6

Delta T = 38.36 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

# SWISS EPHEMERIS for the year 1968

MARCH 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	10 35 26	10 <sup>h</sup> 28'32"	0 <sup>h</sup> 24'	17 <sup>h</sup> 28'	12 <sup>h</sup> 31'	9 <sup>h</sup> 48'	29 <sup>h</sup> 38'	11 <sup>h</sup> 4'	27 <sup>h</sup> 54'	26 <sup>h</sup> 32'	21 <sup>h</sup> 50'	19 <sup>h</sup> 6'	20 <sup>h</sup> 49'	17 <sup>h</sup> 48'	28 <sup>h</sup> 9'
S 2	10 39 23	11 <sup>h</sup> 28'45"	12 <sup>h</sup> 42'	17 <sup>h</sup> 28'	13 <sup>h</sup> 17'	10 <sup>h</sup> 34'	29 <sup>h</sup> 30'	11 <sup>h</sup> 11'	27 <sup>h</sup> 51'	26 <sup>h</sup> 32'	21 <sup>h</sup> 49'	19 <sup>h</sup> 4'	20 <sup>h</sup> 46'	17 <sup>h</sup> 55'	28 <sup>h</sup> 13'
S 3	10 43 19	12 <sup>h</sup> 28'56"	24 <sup>h</sup> 47'	17 <sup>h</sup> 47'	14 <sup>h</sup> 31'	11 <sup>h</sup> 19'	29 <sup>h</sup> 23'	11 <sup>h</sup> 18'	27 <sup>h</sup> 49'	26 <sup>h</sup> 32'	21 <sup>h</sup> 47'	19 <sup>h</sup> D 4	20 <sup>h</sup> 43'	18 <sup>h</sup> 1	28 <sup>h</sup> 16'
M 4	10 47 16	13 <sup>h</sup> 29'06"	6 <sup>h</sup> 43'	18 <sup>h</sup> 11'	15 <sup>h</sup> 45'	12 <sup>h</sup> 5	29 <sup>h</sup> 15'	11 <sup>h</sup> 25'	27 <sup>h</sup> 46'	26 <sup>h</sup> 31'	21 <sup>h</sup> 46'	19 <sup>h</sup> 6	20 <sup>h</sup> 39'	18 <sup>h</sup> 8	28 <sup>h</sup> 20'
T 5	10 51 12	14 <sup>h</sup> 29'13"	18 <sup>h</sup> 33'	18 <sup>h</sup> 40'	16 <sup>h</sup> 59'	12 <sup>h</sup> 50'	29 <sup>h</sup> 8	11 <sup>h</sup> 32'	27 <sup>h</sup> 44'	26 <sup>h</sup> 31'	21 <sup>h</sup> 44'	19 <sup>h</sup> 7	20 <sup>h</sup> 36'	18 <sup>h</sup> 15	28 <sup>h</sup> 23'
W 6	10 55 9	15 <sup>h</sup> 29'18"	0 <sup>h</sup> 21'	19 <sup>h</sup> 14'	18 <sup>h</sup> 13'	13 <sup>h</sup> 35'	29 <sup>h</sup> 0	11 <sup>h</sup> 39'	27 <sup>h</sup> 41'	26 <sup>h</sup> 31'	21 <sup>h</sup> 42'	19 <sup>h</sup> 9	20 <sup>h</sup> 33'	18 <sup>h</sup> 21	28 <sup>h</sup> 27'
T 7	10 59 5	16 <sup>h</sup> 29'21"	12 <sup>h</sup> 14'	19 <sup>h</sup> 52'	19 <sup>h</sup> 27'	14 <sup>h</sup> 21'	28 <sup>h</sup> 53'	11 <sup>h</sup> 46'	27 <sup>h</sup> 39'	26 <sup>h</sup> 31'	21 <sup>h</sup> 41'	19 <sup>h</sup> R10	20 <sup>h</sup> 30'	18 <sup>h</sup> 28	28 <sup>h</sup> 30'
F 8	11 3 2	17 <sup>h</sup> 29'22"	24 <sup>h</sup> 14'	20 <sup>h</sup> 35'	20 <sup>h</sup> 41'	15 <sup>h</sup> 6	28 <sup>h</sup> 46'	11 <sup>h</sup> 53'	27 <sup>h</sup> 36'	26 <sup>h</sup> 30'	21 <sup>h</sup> 39'	19 <sup>h</sup> 10	20 <sup>h</sup> 27'	18 <sup>h</sup> 35	28 <sup>h</sup> 34'
S 9	11 6 59	18 <sup>h</sup> 29'21"	6 <sup>h</sup> 29'	21 <sup>h</sup> 21'	21 <sup>h</sup> 55'	15 <sup>h</sup> 51'	28 <sup>h</sup> 39'	12 <sup>h</sup> 1	27 <sup>h</sup> 33'	26 <sup>h</sup> 30'	21 <sup>h</sup> 38'	19 <sup>h</sup> 8	20 <sup>h</sup> 24'	18 <sup>h</sup> 41	28 <sup>h</sup> 37'
S 10	11 10 55	19 <sup>h</sup> 29'17"	19 <sup>h</sup> 2	22 <sup>h</sup> 10'	23 <sup>h</sup> 9	16 <sup>h</sup> 36'	28 <sup>h</sup> 32'	12 <sup>h</sup> 8	27 <sup>h</sup> 31'	26 <sup>h</sup> 30'	21 <sup>h</sup> 36'	19 <sup>h</sup> 6	20 <sup>h</sup> 20'	18 <sup>h</sup> 48	28 <sup>h</sup> 41'
M11	11 14 52	20 <sup>h</sup> 29'11"	1 <sup>h</sup> 56'	23 <sup>h</sup> 3	24 <sup>h</sup> 23'	17 <sup>h</sup> 21'	28 <sup>h</sup> 25'	12 <sup>h</sup> 15'	27 <sup>h</sup> 28'	26 <sup>h</sup> 29'	21 <sup>h</sup> 34'	19 <sup>h</sup> 2	20 <sup>h</sup> 17'	18 <sup>h</sup> 55	28 <sup>h</sup> 44'
T 12	11 18 48	21 <sup>h</sup> 29'04"	15 <sup>h</sup> 14'	23 <sup>h</sup> 58'	25 <sup>h</sup> 37'	18 <sup>h</sup> 6	28 <sup>h</sup> 18'	12 <sup>h</sup> 22'	27 <sup>h</sup> 26'	26 <sup>h</sup> 29'	21 <sup>h</sup> 33'	18 <sup>h</sup> 57	20 <sup>h</sup> 14'	19 <sup>h</sup> 1	28 <sup>h</sup> 48'
W13	11 22 45	22 <sup>h</sup> 28'54"	28 <sup>h</sup> 56'	24 <sup>h</sup> 57'	26 <sup>h</sup> 50'	18 <sup>h</sup> 51'	28 <sup>h</sup> 12'	12 <sup>h</sup> 29'	27 <sup>h</sup> 23'	26 <sup>h</sup> 28'	21 <sup>h</sup> 31'	18 <sup>h</sup> 53	20 <sup>h</sup> 11'	19 <sup>h</sup> 8	28 <sup>h</sup> 51'
T 14	11 26 41	23 <sup>h</sup> 28'42"	12 <sup>h</sup> 59'	25 <sup>h</sup> 58'	28 <sup>h</sup> 4	19 <sup>h</sup> 36'	28 <sup>h</sup> 5	12 <sup>h</sup> 37'	27 <sup>h</sup> 21'	26 <sup>h</sup> 28'	21 <sup>h</sup> 29'	18 <sup>h</sup> 50	20 <sup>h</sup> 8	19 <sup>h</sup> 15	28 <sup>h</sup> 55'
F 15	11 30 38	24 <sup>h</sup> 28'27"	27 <sup>h</sup> 21'	27 <sup>h</sup> 2	29 <sup>h</sup> 18'	20 <sup>h</sup> 21'	27 <sup>h</sup> 59'	12 <sup>h</sup> 44'	27 <sup>h</sup> 18'	26 <sup>h</sup> 27'	21 <sup>h</sup> 28'	18 <sup>h</sup> 47	20 <sup>h</sup> 4	19 <sup>h</sup> 21	28 <sup>h</sup> 59'
S 16	11 34 34	25 <sup>h</sup> 28'11"	11 <sup>h</sup> 56'	28 <sup>h</sup> 8	0 <sup>h</sup> 32'	21 <sup>h</sup> 6	27 <sup>h</sup> 52'	12 <sup>h</sup> 51'	27 <sup>h</sup> 15'	26 <sup>h</sup> 27'	21 <sup>h</sup> 26'	18 <sup>h</sup> D46	20 <sup>h</sup> 1	19 <sup>h</sup> 28	29 <sup>h</sup> 2
S 17	11 38 31	26 <sup>h</sup> 27'53"	26 <sup>h</sup> 36'	29 <sup>h</sup> 17'	1 <sup>h</sup> 46'	21 <sup>h</sup> 51'	27 <sup>h</sup> 46'	12 <sup>h</sup> 59'	27 <sup>h</sup> 13'	26 <sup>h</sup> 26'	21 <sup>h</sup> 25'	18 <sup>h</sup> 46	19 <sup>h</sup> 58	19 <sup>h</sup> 35	29 <sup>h</sup> 6
M18	11 42 28	27 <sup>h</sup> 27'33"	11 <sup>h</sup> 16'	0 <sup>h</sup> 27'	3 <sup>h</sup> 0	22 <sup>h</sup> 35'	27 <sup>h</sup> 40'	13 <sup>h</sup> 6	27 <sup>h</sup> 10'	26 <sup>h</sup> 26'	21 <sup>h</sup> 23'	18 <sup>h</sup> 47	19 <sup>h</sup> 55	19 <sup>h</sup> 41	29 <sup>h</sup> 9
T 19	11 46 24	28 <sup>h</sup> 27'12"	25 <sup>h</sup> 51'	1 <sup>h</sup> 40'	4 <sup>h</sup> 14'	23 <sup>h</sup> 20'	27 <sup>h</sup> 34'	13 <sup>h</sup> 13'	27 <sup>h</sup> 7	26 <sup>h</sup> 25'	21 <sup>h</sup> 21'	18 <sup>h</sup> 48	19 <sup>h</sup> 52	19 <sup>h</sup> 48	29 <sup>h</sup> 13'
W20	11 50 21	29 <sup>h</sup> 26'49"	10 <sup>h</sup> 15'	2 <sup>h</sup> 55'	5 <sup>h</sup> 28'	24 <sup>h</sup> 5	27 <sup>h</sup> 28'	13 <sup>h</sup> 21'	27 <sup>h</sup> 5	26 <sup>h</sup> 24'	21 <sup>h</sup> 20'	18 <sup>h</sup> 49	19 <sup>h</sup> 49	19 <sup>h</sup> 55	29 <sup>h</sup> 16'
T 21	11 54 17	0 <sup>h</sup> 26'24"	24 <sup>h</sup> 25'	4 <sup>h</sup> 11'	6 <sup>h</sup> 42'	24 <sup>h</sup> 49'	27 <sup>h</sup> 23'	13 <sup>h</sup> 28'	27 <sup>h</sup> 2	26 <sup>h</sup> 23'	21 <sup>h</sup> 18'	18 <sup>h</sup> R50	19 <sup>h</sup> 45	20 <sup>h</sup> 1	29 <sup>h</sup> 20'
F 22	11 58 14	1 <sup>h</sup> 25'57"	8 <sup>h</sup> 20'	5 <sup>h</sup> 30'	7 <sup>h</sup> 56'	25 <sup>h</sup> 34'	27 <sup>h</sup> 17'	13 <sup>h</sup> 36'	27 <sup>h</sup> 0	26 <sup>h</sup> 23'	21 <sup>h</sup> 17'	18 <sup>h</sup> 50	19 <sup>h</sup> 42	20 <sup>h</sup> 8	29 <sup>h</sup> 24'
S 23	12 2 10	2 <sup>h</sup> 25'29"	22 <sup>h</sup> 0	6 <sup>h</sup> 50'	9 <sup>h</sup> 10'	26 <sup>h</sup> 19'	27 <sup>h</sup> 12'	13 <sup>h</sup> 43'	26 <sup>h</sup> 57'	26 <sup>h</sup> 22'	21 <sup>h</sup> 15'	18 <sup>h</sup> 49	19 <sup>h</sup> 39	20 <sup>h</sup> 15	29 <sup>h</sup> 27'
S 24	12 6 7	3 <sup>h</sup> 24'59"	5 <sup>h</sup> 24'	8 <sup>h</sup> 11'	10 <sup>h</sup> 24'	27 <sup>h</sup> 3	27 <sup>h</sup> 6	13 <sup>h</sup> 51'	26 <sup>h</sup> 54'	26 <sup>h</sup> 21'	21 <sup>h</sup> 13'	18 <sup>h</sup> 48	19 <sup>h</sup> 36	20 <sup>h</sup> 21	29 <sup>h</sup> 31'
M25	12 10 3	4 <sup>h</sup> 24'27"	18 <sup>h</sup> 33'	9 <sup>h</sup> 35'	11 <sup>h</sup> 38'	27 <sup>h</sup> 47'	27 <sup>h</sup> 1	13 <sup>h</sup> 58'	26 <sup>h</sup> 52'	26 <sup>h</sup> 20'	21 <sup>h</sup> 12'	18 <sup>h</sup> 46	19 <sup>h</sup> 33	20 <sup>h</sup> 28	29 <sup>h</sup> 34'
T 26	12 14 0	5 <sup>h</sup> 23'53"	1 <sup>h</sup> 28'	11 <sup>h</sup> 0	12 <sup>h</sup> 52'	28 <sup>h</sup> 32'	26 <sup>h</sup> 56'	14 <sup>h</sup> 6	26 <sup>h</sup> 49'	26 <sup>h</sup> 20'	21 <sup>h</sup> 10'	18 <sup>h</sup> 44	19 <sup>h</sup> 30	20 <sup>h</sup> 35	29 <sup>h</sup> 38'
W27	12 17 57	6 <sup>h</sup> 23'17"	14 <sup>h</sup> 9	12 <sup>h</sup> 26'	14 <sup>h</sup> 6	29 <sup>h</sup> 16'	26 <sup>h</sup> 52'	14 <sup>h</sup> 13'	26 <sup>h</sup> 47'	26 <sup>h</sup> 19'	21 <sup>h</sup> 9	18 <sup>h</sup> 42	19 <sup>h</sup> 26	20 <sup>h</sup> 41	29 <sup>h</sup> 41'
T 28	12 21 53	7 <sup>h</sup> 22'40"	26 <sup>h</sup> 38'	13 <sup>h</sup> 54'	15 <sup>h</sup> 20'	0 <sup>h</sup> 1	26 <sup>h</sup> 47'	14 <sup>h</sup> 21'	26 <sup>h</sup> 44'	26 <sup>h</sup> 18'	21 <sup>h</sup> 7	18 <sup>h</sup> 41	19 <sup>h</sup> 23	20 <sup>h</sup> 48	29 <sup>h</sup> 45'
F 29	12 25 50	8 <sup>h</sup> 22'00"	8 <sup>h</sup> 56'	15 <sup>h</sup> 24'	16 <sup>h</sup> 34'	0 <sup>h</sup> 45'	26 <sup>h</sup> 43'	14 <sup>h</sup> 28'	26 <sup>h</sup> 42'	26 <sup>h</sup> 17'	21 <sup>h</sup> 6	18 <sup>h</sup> 40	19 <sup>h</sup> 20	20 <sup>h</sup> 55	29 <sup>h</sup> 48'
S 30	12 29 46	9 <sup>h</sup> 21'18"	21 <sup>h</sup> 3	16 <sup>h</sup> 55'	17 <sup>h</sup> 48'	1 <sup>h</sup> 29	26 <sup>h</sup> 38'	14 <sup>h</sup> 36'	26 <sup>h</sup> 39'	26 <sup>h</sup> 16'	21 <sup>h</sup> 4	18 <sup>h</sup> D40	19 <sup>h</sup> 17	21 <sup>h</sup> 1	29 <sup>h</sup> 52'
S 31	12 33 43	10 <sup>h</sup> 20'34"	3 <sup>h</sup> 2	18 <sup>h</sup> 27'	19 <sup>h</sup> 2	2 <sup>h</sup> 13	26 <sup>h</sup> 34	14 <sup>h</sup> 43	26 <sup>h</sup> 37	26 <sup>h</sup> 15	21 <sup>h</sup> 3	18 <sup>h</sup> 40	19 <sup>h</sup> 14	21 <sup>h</sup> 8	29 <sup>h</sup> 55'

Delta T = 38.43 sec.

APRIL 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	12 37 39	11°19'48	14°8'54	20°11'1	20°11'5	2°38'57	26°R30	14°V51	26°R34	26°R14	21°R 1	18°V41	19°V10	21°R15	29°H59
T 2	12 41 36	12°19'00	26°4'3	21°3'7	21°2'9	3°4'1	26°Ω27	14°5'8	26°η32	26°μ13	21°η 0	18°4'1	19° 7	21°2'1	0°V 2
W 3	12 45 32	13°18'10	8°II32	23°1'4	22°4'3	4°2'5	26°2'3	15° 6	26°2'9	26°1'2	20°5'8	18°4'2	19° 4	21°2'8	0° 6
T 4	12 49 29	14°17'17	20°2'4	24°5'2	23°5'7	5° 9	26°2'0	15°1'3	26°2'7	26°1'1	20°5'7	18°4'3	19° 1	21°3'5	0° 9
F 5	12 53 26	15°16'22	2°25'2	26°3'2	25°1'1	5°5'3	26°1'6	15°2'1	26°2'4	26°1'0	20°5'5	18°4'3	18°5'8	21°4'1	0°13
S 6	12 57 22	16°15'25	14°3'7	28°1'3	26°2'5	6°3'7	26°1'3	15°2'9	26°2'2	26° 8	20°5'4	18°R43	18°5'5	21°4'8	0°16
S 7	13 1 19	17°14'26	27° 6	29°5'6	27°3'9	7°2'1	26°1'1	15°3'6	26°1'9	26° 7	20°5'2	18°4'3	18°5'1	21°5'5	0°20
M 8	13 5 15	18°13'24	9°Ω57	1°V40	28°5'3	8° 5	26° 8	15°4'4	26°1'7	26° 6	20°5'1	18°D43	18°4'8	22° 1	0°23
T 9	13 9 12	19°12'20	23°1'1	3°2'5	0°V 7	8°4'8	26° 5	15°5'1	26°1'5	26° 5	20°5'0	18°4'3	18°4'5	22° 8	0°27
W10	13 13 8	20°11'14	6°η51	5°1'3	1°2'1	9°3'2	26° 3	15°5'9	26°1'2	26° 4	20°4'8	18°4'3	18°4'2	22°1'5	0°30
T 11	13 17 5	21°10'05	20°5'8	7° 1	2°3'4	10°1'6	26° 1	16° 6	26°1'0	26° 2	20°4'7	18°4'3	18°3'9	22°2'1	0°33
F 12	13 21 1	22° 8'54	5°Ω28	8°5'1	3°4'8	10°5'9	25°5'9	16°1'4	26° 8	26° 1	20°4'6	18°4'3	18°3'6	22°2'8	0°37
S 13	13 24 58	23° 7'41	20°1'8	10°4'3	5° 2	11°4'3	25°5'7	16°2'1	26° 6	26° 0	20°4'4	18°R44	18°3'2	22°3'5	0°40
S 14	13 28 55	24° 6'26	5°μ19	12°3'6	6°1'6	12°2'6	25°5'6	16°2'9	26° 3	25°5'9	20°4'3	18°4'3	18°2'9	22°4'1	0°44
M15	13 32 51	25° 5'09	20°2'3	14°3'1	7°3'0	13°1'0	25°5'4	16°3'6	26° 1	25°5'7	20°4'2	18°4'3	18°2'6	22°4'8	0°47
T 16	13 36 48	26° 3'51	5°Ω22	16°2'7	8°4'4	13°5'3	25°5'3	16°4'4	25°5'9	25°5'6	20°4'0	18°4'2	18°2'3	22°5'5	0°50
W17	13 40 44	27° 2'30	20° 7	18°2'5	9°5'8	14°3'6	25°5'2	16°5'1	25°5'7	25°5'5	20°3'9	18°4'1	18°2'0	23° 1	0°53
T 18	13 44 41	28° 1'09	4°Ω33	20°2'4	11°1'1	15°2'0	25°5'1	16°5'9	25°5'5	25°5'3	20°3'8	18°4'0	18°1'6	23° 8	0°57
F 19	13 48 37	28°59'45	18°3'7	22°2'5	12°2'5	16° 3	25°5'1	17° 6	25°5'3	25°5'2	20°3'7	18°4'0	18°1'3	23°1'5	1° 0
S 20	13 52 34	29°58'20	2°Ω17	24°2'7	13°3'9	16°4'6	25°5'0	17°1'4	25°5'1	25°5'0	20°3'6	18°D40	18°1'0	23°2'1	1° 3
S 21	13 56 30	0°Ω56'53	15°3'5	26°3'0	14°5'3	17°2'9	25°5'0	17°2'1	25°4'9	25°4'9	20°3'5	18°4'0	18° 7	23°2'8	1° 6
M22	14 0 27	1°55'24	28°3'2	28°3'5	16° 7	18°1'2	25°D50	17°2'9	25°4'7	25°4'7	20°3'3	18°4'1	18° 4	23°3'5	1°10
T23	14 4 24	2°53'54	11°H11	0°Ω40	17°2'1	18°5'5	25°5'0	17°3'6	25°4'5	25°4'6	20°3'2	18°4'2	18° 1	23°4'1	1°13
W24	14 8 20	3°52'22	23°3'6	2°4'7	18°3'4	19°3'8	25°5'0	17°4'3	25°4'3	25°4'5	20°3'1	18°4'3	17°5'7	23°4'8	1°16
T25	14 12 17	4°50'48	5°V49	4°5'5	19°4'8	20°2'1	25°5'1	17°5'1	25°4'1	25°4'3	20°3'0	18°4'4	17°5'4	23°5'5	1°19
F 26	14 16 13	5°49'13	17°5'2	7° 3	21° 2	21° 4	25°5'1	17°5'8	25°3'9	25°4'2	20°2'9	18°R45	17°5'1	24° 1	1°22
S 27	14 20 10	6°47'36	29°4'9	9°1'2	22°1'6	21°4'7	25°5'2	18° 5	25°3'7	25°4'0	20°2'8	18°4'4	17°4'8	24° 8	1°25
S 28	14 24 6	7°45'57	11°Ω41	11°2'1	23°3'0	22°3'0	25°5'3	18°1'3	25°3'6	25°3'9	20°2'7	18°4'3	17°4'5	24°1'5	1°28
M29	14 28 3	8°44'16	23°3'1	13°3'0	24°4'2	23°1'2	25°5'4	18°2'0	25°3'4	25°3'7	20°2'6	18°4'1	17°4'1	24°2'1	1°31
T 30	14 31 59	9°42'33	5°II20	15°Ω38	25°V57	23°Ω55	25°Ω56	18°V27	25°η32	25°μ35	20°η25	18°V38	17°V38	24°Ω28	1°V34

# SWISS EPHEMERIS for the year 1968

MAY 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	14 35 56	108°40'49"	17°11'10"	178°46'	27°11'	248°38'	25°57'	18°34'	25°R31	25°R34	20°R24	18°R34	17°Y35	248°35'	1°Y37
T 2	14 39 53	11°39'03"	29° 5'	19°54'	28°25'	25°20'	25°59'	18°42'	25°M29	25°M32	20°M23	18°Y30	17°32'	24°41'	1°40
F 3	14 43 49	12°37'15"	11°58' 8"	21°59'	29°39'	26° 3'	26° 1'	18°49'	25°28'	25°31'	20°23'	18°27'	17°29'	24°48'	1°43
S 4	14 47 46	13°35'24"	23°20'	24° 4'	08°52'	26°45'	26° 3'	18°56'	25°26'	25°29'	20°22'	18°24'	17°26'	24°55'	1°46
S 5	14 51 42	14°33'32"	5°48'	26° 6'	2° 6'	27°28'	26° 5'	19° 3'	25°25'	25°28'	20°21'	18°23'	17°22'	25° 1'	1°48
M 6	14 55 39	15°31'38"	18°33'	28° 7'	3°20'	28°10'	26° 8'	19°10'	25°23'	25°26'	20°20'	18°D23	17°19'	25° 8'	1°51
T 7	14 59 35	16°29'42"	1°41'	0°II 5'	4°34'	28°53'	26°11'	19°17'	25°22'	25°24'	20°19'	18°23'	17°16'	25°15'	1°54
W 8	15 3 32	17°27'44"	15°13'	2° 1'	5°47'	29°35'	26°13'	19°24'	25°21'	25°23'	20°19'	18°25'	17°13'	25°21'	1°57
T 9	15 7 28	18°25'44"	29°12'	3°54'	7° 1'	0°II17'	26°16'	19°31'	25°20'	25°21'	20°18'	18°26'	17°10'	25°28'	1°59
F 10	15 11 25	19°23'42"	13°48'	5°44'	8°15'	0°59'	26°19'	19°38'	25°18'	25°20'	20°17'	18°R27	17° 7'	25°35'	2° 2
S 11	15 15 22	20°21'38"	28°27'	7°31'	9°29'	1°42'	26°23'	19°45'	25°17'	25°18'	20°17'	18°27'	17° 3'	25°41'	2° 5
S 12	15 19 18	21°19'33"	13°M33'	9°15'	10°42'	2°24'	26°26'	19°52'	25°16'	25°16'	20°16'	18°25'	17° 0'	25°48'	2° 7
M13	15 23 15	22°17'26"	28°48'	10°55'	11°56'	3° 6'	26°30'	19°59'	25°15'	25°15'	20°16'	18°22'	16°57'	25°55'	2°10
T 14	15 27 11	23°15'18"	14°7' 8"	12°33'	13°10'	3°48'	26°34'	20° 5'	25°14'	25°13'	20°15'	18°17'	16°54'	26° 2'	2°12
W15	15 31 8	24°13'09"	29° 4'	14° 6'	14°23'	4°30'	26°38'	20°12'	25°13'	25°11'	20°14'	18°12'	16°51'	26° 8'	2°15
T 16	15 35 4	25°10'58"	13°346'	15°37'	15°37'	5°12'	26°42'	20°19'	25°12'	25°10'	20°14'	18° 7'	16°47'	26°15'	2°17
F 17	15 39 1	26° 8'46"	28° 2'	17° 3'	16°51'	5°53'	26°46'	20°25'	25°11'	25° 8'	20°13'	18° 3'	16°44'	26°22'	2°20
S 18	15 42 57	27° 6'33"	11°850'	18°26'	18° 4'	6°35'	26°51'	20°32'	25°10'	25° 7'	20°13'	18° 1'	16°41'	26°28'	2°22
S 19	15 46 54	28° 4'18"	25°11'	19°46'	19°18'	7°17'	26°55'	20°39'	25°10'	25° 5'	20°13'	18°D 0'	16°38'	26°35'	2°24
M20	15 50 51	29° 2'03"	8°H 6'	21° 2'	20°32'	7°59'	27° 0'	20°45'	25° 9'	25° 3'	20°12'	18° 0'	16°35'	26°42'	2°27
T 21	15 54 47	29°59'46"	20°39'	22°13'	21°46'	8°41'	27° 5'	20°52'	25° 8'	25° 2'	20°12'	18° 1'	16°32'	26°48'	2°29
W22	15 58 44	0°II57'28"	2°Y56'	23°22'	22°59'	9°22'	27°10'	20°58'	25° 8'	25° 0'	20°12'	18° 2'	16°28'	26°55'	2°31
T 23	16 2 40	1°55'09"	14°59'	24°26'	24°13'	10° 4'	27°15'	21° 4'	25° 7'	24°58'	20°11'	18°R 3'	16°25'	27° 2'	2°33
F 24	16 6 37	2°52'50"	26°54'	25°26'	25°27'	10°45'	27°21'	21°11'	25° 7'	24°57'	20°11'	18° 3'	16°22'	27° 8'	2°35
S 25	16 10 33	3°50'29"	8°B45'	26°23'	26°40'	11°27'	27°26'	21°17'	25° 6'	24°55'	20°11'	18° 1'	16°19'	27°15'	2°37
S 26	16 14 30	4°48'07"	20°33'	27°15'	27°54'	12° 8'	27°32'	21°23'	25° 6'	24°54'	20°11'	17°56'	16°16'	27°22'	2°40
M27	16 18 26	5°45'43"	2°II22'	28° 3'	29° 8'	12°50'	27°38'	21°29'	25° 5'	24°52'	20°11'	17°50'	16°13'	27°28'	2°42
T 28	16 22 23	6°43'19"	14°13'	28°47'	0°II21'	13°31'	27°44'	21°35'	25° 5'	24°50'	20°10'	17°42'	16° 9'	27°35'	2°43
W29	16 26 20	7°40'54"	26° 9'	29°27'	1°35'	14°13'	27°50'	21°41'	25° 5'	24°49'	20°10'	17°32'	16° 6'	27°42'	2°45
T 30	16 30 16	8°38'27"	8°B10'	0°B 2'	2°49'	14°54'	27°56'	21°47'	25° 5'	24°47'	20°10'	17°23'	16° 3'	27°48'	2°47
F 31	16 34 13	9°II35'59"	20°B20'	0°B33'	4°II 2'	15°II35'	28°B 3'	21°Y53'	25°M 5'	24°M46'	20°D10'	17°Y14'	16°Y 0'	27°B55'	2°Y49

Delta T = 38.58 sec.

JUNE 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	16 38 9	10°II33'30"	28°B38'	0°B59'	5°II16'	16°II16'	28°B 9'	21°Y59'	25°R 5'	24°R44'	20°M10'	17°R 7'	15°Y57'	28°B 2'	2°Y51
S 2	16 42 6	11°31'00"	15° 9'	1°21'	6°30'	16°57'	28°16'	22° 5'	25°D 4'	24°M43'	20°10'	17°Y 1'	15°53'	28° 8'	2°53
M 3	16 46 2	12°28'28"	27°55'	1°38'	7°43'	17°39'	28°23'	22°11'	25°M 5'	24°41'	20°10'	16°58'	15°50'	28°15'	2°54
T 4	16 49 59	13°25'56"	10°M59'	1°50'	8°57'	18°20'	28°30'	22°17'	25° 5'	24°40'	20°11'	16°D57'	15°47'	28°22'	2°56
W 5	16 53 55	14°23'21"	24°24'	1°58'	10°11'	19° 1'	28°37'	22°22'	25° 5'	24°38'	20°11'	16°57'	15°44'	28°28'	2°57
T 6	16 57 52	15°20'46"	8°B13'	2°R 1'	11°24'	19°42'	28°44'	22°28'	25° 5'	24°37'	20°11'	16°58'	15°41'	28°35'	2°59
F 7	17 1 149	16°18'09"	22°26'	2° 0'	12°38'	20°23'	28°52'	22°33'	25° 5'	24°35'	20°11'	16°R58'	15°38'	28°42'	3° 1
S 8	17 5 45	17°15'32"	7°M 3'	1°54'	13°52'	21° 4'	28°59'	22°39'	25° 5'	24°34'	20°11'	16°57'	15°34'	28°49'	3° 2
S 9	17 9 42	18°12'53"	22° 0'	1°44'	15° 5'	21°44'	29° 7'	22°44'	25° 6'	24°32'	20°12'	16°53'	15°31'	28°55'	3° 3
M10	17 13 38	19°10'14"	7°M 9'	1°30'	16°19'	22°25'	29°14'	22°49'	25° 6'	24°31'	20°12'	16°47'	15°28'	29° 2'	3° 5
T 11	17 17 35	20° 7'33"	22°22'	1°12'	17°33'	23° 6'	29°22'	22°55'	25° 7'	24°29'	20°12'	16°39'	15°25'	29° 9'	3° 6
W12	17 21 31	21° 4'52"	7°B28'	0°51'	18°47'	23°47'	29°30'	23° 0'	25° 7'	24°28'	20°13'	16°29'	15°22'	29°15'	3° 7
T 13	17 25 28	22° 2'11"	22°17'	0°26'	20° 0'	24°27'	29°38'	23° 5'	25° 8'	24°26'	20°13'	16°20'	15°19'	29°22'	3° 9
F 14	17 29 25	22°59'29"	6°B41'	29°II58'	21°14'	25° 8'	29°47'	23°10'	25° 8'	24°25'	20°13'	16°12'	15°15'	29°29'	3°10
S 15	17 33 21	23°56'46"	20°36'	29°28'	22°28'	25°49'	29°55'	23°15'	25° 9'	24°24'	20°14'	16° 6'	15°12'	29°35'	3°11
S 16	17 37 18	24°54'03"	4°H 2'	28°56'	23°41'	26°29'	0°M 3'	23°20'	25°10'	24°22'	20°14'	16° 2'	15° 9'	29°42'	3°12
M17	17 41 14	25°51'20"	17° 0'	28°23'	24°55'	27°10'	0°12'	23°25'	25°10'	24°21'	20°15'	16° 0'	15° 6'	29°49'	3°13
T 18	17 45 11	26°48'36"	29°34'	27°49'	26° 9'	27°50'	0°20'	23°29'	25°11'	24°20'	20°15'	16°D 0'	15° 3'	29°55'	3°14
W19	17 49 7	27°45'52"	11°Y49'	27°15'	27°22'	28°31'	0°29'	23°34'	25°12'	24°18'	20°16'	16°R 0'	14°59'	0°II 2'	3°15
T 20	17 53 4	28°43'08"	23°51'	26°41'	28°36'	29°11'	0°38'	23°39'	25°13'	24°17'	20°17'	16° 0'	14°56'	0° 9'	3°16
F 21	17 57 0	29°40'23"	5°B43'	26° 8'	29°50'	29°52'	0°47'	23°43'	25°14'	24°16'	20°17'	15°58'	14°53'	0°15'	3°16
S 22	18 0 57	0°B37'39"	17°31'	25°36'	1°B 3'	0°B32'	0°56'	23°47'	25°15'	24°15'	20°18'	15°54'	14°50'	0°22'	3°17
S 23	18 4 54	1°34'54"	29°20'	25° 7'	2°17'	1°12'	1° 5'	23°52'	25°16'	24°13'	20°19'	15°47'	14°47'	0°29'	3°18
M24	18 8 50	2°32'09"	11°II11'	24°40'	3°31'	1°52'	1°15'	23°56'	25°17'	24°12'	20°19'	15°38'	14°44'	0°35'	3°19
T 25	18 12 47	3°29'24"	23° 7'	24°16'	4°45'	2°33'	1°24'	24° 0'	25°18'	24°11'	20°20'	15°27'	14°40'	0°42'	3°19
W26	18 16 43	4°26'39"	5°B11'	23°56'	5°58'	3°13'	1°34'	24° 4'	25°20'	24°10'	20°21'	15°14'	14°37'	0°49'	3°20
T 27	18 20 40	5°23'53"	17°23'	23°39'	7°12'	3°53'	1°43'	24° 8'	25°21'	24° 9'	20°22'	15° 0'	14°34'	0°56'	3°20
F 28	18 24 36	6°21'07"	29°44'	23°27'	8°26'	4°33'	1°53'	24°12'	25°22'	24° 8'	20°22'	14°48'	14°31'	1° 2'	3°21
S 29	18 28 33	7°18'21"	12°B15'	23°19'	9°40'	5°13'	2° 3'	24°16'	25°24'	24° 7'	20°23'	14°37'	14°28'	1° 9'	3°21
S 30	18 32 29	8°B15'34"	24°B57'	23°D15'	10°B53'	5°B53'	2°M12'	24°Y20'	25°M25'	24°M 5'	20°M24'	14°Y29'	14°Y25'	1°II16'	3°Y21

Delta T = 38.66 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

# SWISS EPHEMERIS for the year 1968

JULY 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	18 36 26	9 <sup>h</sup> 12'47"	7 <sup>h</sup> 11'52"	23 <sup>h</sup> 11'16"	12 <sup>h</sup> 28' 7"	6 <sup>h</sup> 53'33"	2 <sup>h</sup> 11'22"	24 <sup>h</sup> 11'24"	25 <sup>h</sup> 11'27"	24 <sup>h</sup> 11'24"	20 <sup>h</sup> 11'25"	14 <sup>h</sup> 11'24"	14 <sup>h</sup> 11'21"	1 <sup>h</sup> 11'22"	3 <sup>h</sup> 11'22"
T 2	18 40 23	10 <sup>h</sup> 10'00"	21 <sup>h</sup> 0'	23 <sup>h</sup> 22'	13 <sup>h</sup> 21'	7 <sup>h</sup> 13'	2 <sup>h</sup> 32'	24 <sup>h</sup> 27'	25 <sup>h</sup> 28'	24 <sup>h</sup> 11' 3	20 <sup>h</sup> 26'	14 <sup>h</sup> 11'21"	14 <sup>h</sup> 11'18"	1 <sup>h</sup> 29'	3 <sup>h</sup> 22'
W 3	18 44 19	11 <sup>h</sup> 7'12"	4 <sup>h</sup> 25'5"	23 <sup>h</sup> 33'	14 <sup>h</sup> 35'	7 <sup>h</sup> 53'	2 <sup>h</sup> 43'	24 <sup>h</sup> 31'	25 <sup>h</sup> 30'	24 <sup>h</sup> 2	20 <sup>h</sup> 27'	14 <sup>h</sup> 20'	14 <sup>h</sup> 15'	1 <sup>h</sup> 36'	3 <sup>h</sup> 22'
T 4	18 48 16	12 <sup>h</sup> 4'24"	18 <sup>h</sup> 7'	23 <sup>h</sup> 49'	15 <sup>h</sup> 48'	8 <sup>h</sup> 33'	2 <sup>h</sup> 53'	24 <sup>h</sup> 34'	25 <sup>h</sup> 31'	24 <sup>h</sup> 1	20 <sup>h</sup> 28'	14 <sup>h</sup> 20'	14 <sup>h</sup> 12'	1 <sup>h</sup> 42'	3 <sup>h</sup> 22'
F 5	18 52 12	13 <sup>h</sup> 1'35"	2 <sup>h</sup> 11'10"	24 <sup>h</sup> 10'	17 <sup>h</sup> 2'	9 <sup>h</sup> 13'	3 <sup>h</sup> 3'	24 <sup>h</sup> 37'	25 <sup>h</sup> 33'	24 <sup>h</sup> 1	20 <sup>h</sup> 29'	14 <sup>h</sup> 19'	14 <sup>h</sup> 9'	1 <sup>h</sup> 49'	3 <sup>h</sup> 22'
S 6	18 56 9	13 <sup>h</sup> 58'47"	16 <sup>h</sup> 32'	24 <sup>h</sup> 36'	18 <sup>h</sup> 16'	9 <sup>h</sup> 53'	3 <sup>h</sup> 13'	24 <sup>h</sup> 41'	25 <sup>h</sup> 35'	24 <sup>h</sup> 0	20 <sup>h</sup> 30'	14 <sup>h</sup> 17'	14 <sup>h</sup> 5'	1 <sup>h</sup> 56'	3 <sup>h</sup> 22'
S 7	19 0 5	14 <sup>h</sup> 55'58"	1 <sup>h</sup> 11'	25 <sup>h</sup> 7'	19 <sup>h</sup> 30'	10 <sup>h</sup> 33'	3 <sup>h</sup> 24'	24 <sup>h</sup> 44'	25 <sup>h</sup> 37'	23 <sup>h</sup> 59'	20 <sup>h</sup> 31'	14 <sup>h</sup> 13'	14 <sup>h</sup> 2'	2 <sup>h</sup> 2'	3 <sup>h</sup> 22'
M 8	19 4 2	15 <sup>h</sup> 53'09"	16 <sup>h</sup> 3'	25 <sup>h</sup> 43'	20 <sup>h</sup> 44'	11 <sup>h</sup> 12'	3 <sup>h</sup> 34'	24 <sup>h</sup> 47'	25 <sup>h</sup> 38'	23 <sup>h</sup> 58'	20 <sup>h</sup> 33'	14 <sup>h</sup> 5'	13 <sup>h</sup> 59'	2 <sup>h</sup> 9'	3 <sup>h</sup> 22'
T 9	19 7 58	16 <sup>h</sup> 50'20"	1 <sup>h</sup> 0'	26 <sup>h</sup> 24'	21 <sup>h</sup> 57'	11 <sup>h</sup> 52'	3 <sup>h</sup> 45'	24 <sup>h</sup> 50'	25 <sup>h</sup> 40'	23 <sup>h</sup> 57'	20 <sup>h</sup> 34'	13 <sup>h</sup> 56'	13 <sup>h</sup> 56'	2 <sup>h</sup> 16'	3 <sup>h</sup> 22'
W10	19 11 55	17 <sup>h</sup> 47'31"	15 <sup>h</sup> 54'	27 <sup>h</sup> 10'	23 <sup>h</sup> 11'	12 <sup>h</sup> 32'	3 <sup>h</sup> 56'	24 <sup>h</sup> 53'	25 <sup>h</sup> 42'	23 <sup>h</sup> 56'	20 <sup>h</sup> 35'	13 <sup>h</sup> 45'	13 <sup>h</sup> 53'	2 <sup>h</sup> 22'	3 <sup>h</sup> 22'
T 11	19 15 52	18 <sup>h</sup> 44'43"	0 <sup>h</sup> 34'	28 <sup>h</sup> 0'	24 <sup>h</sup> 25'	13 <sup>h</sup> 11'	4 <sup>h</sup> 7'	24 <sup>h</sup> 56'	25 <sup>h</sup> 44'	23 <sup>h</sup> 55'	20 <sup>h</sup> 36'	13 <sup>h</sup> 34'	13 <sup>h</sup> 50'	2 <sup>h</sup> 29'	3 <sup>h</sup> 22'
F 12	19 19 48	19 <sup>h</sup> 41'54"	14 <sup>h</sup> 55'	28 <sup>h</sup> 56'	25 <sup>h</sup> 39'	13 <sup>h</sup> 51'	4 <sup>h</sup> 17'	24 <sup>h</sup> 58'	25 <sup>h</sup> 46'	23 <sup>h</sup> 55'	20 <sup>h</sup> 37'	13 <sup>h</sup> 24'	13 <sup>h</sup> 46'	2 <sup>h</sup> 36'	3 <sup>h</sup> 21'
S 13	19 23 45	20 <sup>h</sup> 39'06"	28 <sup>h</sup> 50'	29 <sup>h</sup> 56'	26 <sup>h</sup> 52'	14 <sup>h</sup> 31'	4 <sup>h</sup> 28'	25 <sup>h</sup> 1'	25 <sup>h</sup> 48'	23 <sup>h</sup> 54'	20 <sup>h</sup> 39'	13 <sup>h</sup> 16'	13 <sup>h</sup> 43'	2 <sup>h</sup> 43'	3 <sup>h</sup> 21'
S 14	19 27 41	21 <sup>h</sup> 36'19"	12 <sup>h</sup> 18'	1 <sup>h</sup> 1'	28 <sup>h</sup> 6'	15 <sup>h</sup> 10'	4 <sup>h</sup> 39'	25 <sup>h</sup> 3'	25 <sup>h</sup> 50'	23 <sup>h</sup> 53'	20 <sup>h</sup> 40'	13 <sup>h</sup> 11'	13 <sup>h</sup> 40'	2 <sup>h</sup> 49'	3 <sup>h</sup> 21'
M15	19 31 38	22 <sup>h</sup> 33'31"	25 <sup>h</sup> 18'	2 <sup>h</sup> 10'	29 <sup>h</sup> 20'	15 <sup>h</sup> 50'	4 <sup>h</sup> 50'	25 <sup>h</sup> 6'	25 <sup>h</sup> 52'	23 <sup>h</sup> 53'	20 <sup>h</sup> 41'	13 <sup>h</sup> 8'	13 <sup>h</sup> 37'	2 <sup>h</sup> 56'	3 <sup>h</sup> 20'
T 16	19 35 34	23 <sup>h</sup> 30'45"	7 <sup>h</sup> 11'55"	3 <sup>h</sup> 24'	0 <sup>h</sup> 13'4	16 <sup>h</sup> 29'	5 <sup>h</sup> 1'	25 <sup>h</sup> 8'	25 <sup>h</sup> 55'	23 <sup>h</sup> 52'	20 <sup>h</sup> 43'	13 <sup>h</sup> 7'	13 <sup>h</sup> 34'	3 <sup>h</sup> 3'	3 <sup>h</sup> 20'
W17	19 39 31	24 <sup>h</sup> 27'59"	20 <sup>h</sup> 12'	4 <sup>h</sup> 43'	1 <sup>h</sup> 48'	17 <sup>h</sup> 9'	5 <sup>h</sup> 13'	25 <sup>h</sup> 10'	25 <sup>h</sup> 57'	23 <sup>h</sup> 51'	20 <sup>h</sup> 44'	13 <sup>h</sup> 7'	13 <sup>h</sup> 31'	3 <sup>h</sup> 9'	3 <sup>h</sup> 19'
T 18	19 43 27	25 <sup>h</sup> 25'14"	2 <sup>h</sup> 14'	6 <sup>h</sup> 6'	3 <sup>h</sup> 2'	17 <sup>h</sup> 48'	5 <sup>h</sup> 24'	25 <sup>h</sup> 12'	25 <sup>h</sup> 59'	23 <sup>h</sup> 51'	20 <sup>h</sup> 45'	13 <sup>h</sup> 7'	13 <sup>h</sup> 27'	3 <sup>h</sup> 16'	3 <sup>h</sup> 19'
F 19	19 47 24	26 <sup>h</sup> 22'29"	14 <sup>h</sup> 8'	7 <sup>h</sup> 33'	4 <sup>h</sup> 15'	18 <sup>h</sup> 27'	5 <sup>h</sup> 35'	25 <sup>h</sup> 14'	26 <sup>h</sup> 1'	23 <sup>h</sup> 50'	20 <sup>h</sup> 47'	13 <sup>h</sup> 6'	13 <sup>h</sup> 24'	3 <sup>h</sup> 23'	3 <sup>h</sup> 18'
S 20	19 51 21	27 <sup>h</sup> 19'45"	25 <sup>h</sup> 57'	9 <sup>h</sup> 4'	5 <sup>h</sup> 29'	19 <sup>h</sup> 7'	5 <sup>h</sup> 47'	25 <sup>h</sup> 16'	26 <sup>h</sup> 4'	23 <sup>h</sup> 50'	20 <sup>h</sup> 48'	13 <sup>h</sup> 2'	13 <sup>h</sup> 21'	3 <sup>h</sup> 29'	3 <sup>h</sup> 17'
S 21	19 55 17	28 <sup>h</sup> 17'02"	7 <sup>h</sup> 11'48"	10 <sup>h</sup> 40'	6 <sup>h</sup> 43'	19 <sup>h</sup> 46'	5 <sup>h</sup> 58'	25 <sup>h</sup> 18'	26 <sup>h</sup> 6'	23 <sup>h</sup> 49'	20 <sup>h</sup> 50'	12 <sup>h</sup> 57'	13 <sup>h</sup> 18'	3 <sup>h</sup> 36'	3 <sup>h</sup> 17'
M22	19 59 14	29 <sup>h</sup> 14'20"	19 <sup>h</sup> 43'	12 <sup>h</sup> 19'	7 <sup>h</sup> 57'	20 <sup>h</sup> 25'	6 <sup>h</sup> 10'	25 <sup>h</sup> 20'	26 <sup>h</sup> 9'	23 <sup>h</sup> 49'	20 <sup>h</sup> 51'	12 <sup>h</sup> 48'	13 <sup>h</sup> 15'	3 <sup>h</sup> 43'	3 <sup>h</sup> 16'
T 23	20 3 10	30 <sup>h</sup> 11'39"	1 <sup>h</sup> 46'	14 <sup>h</sup> 2'	9 <sup>h</sup> 11'	21 <sup>h</sup> 5'	6 <sup>h</sup> 21'	25 <sup>h</sup> 21'	26 <sup>h</sup> 11'	23 <sup>h</sup> 48'	20 <sup>h</sup> 53'	12 <sup>h</sup> 38'	13 <sup>h</sup> 11'	3 <sup>h</sup> 49'	3 <sup>h</sup> 15'
W24	20 7 7	1 <sup>h</sup> 8'58"	13 <sup>h</sup> 59'	15 <sup>h</sup> 48'	10 <sup>h</sup> 25'	21 <sup>h</sup> 44'	6 <sup>h</sup> 33'	25 <sup>h</sup> 23'	26 <sup>h</sup> 13'	23 <sup>h</sup> 48'	20 <sup>h</sup> 54'	12 <sup>h</sup> 26'	13 <sup>h</sup> 8'	3 <sup>h</sup> 56'	3 <sup>h</sup> 14'
T 25	20 11 3	2 <sup>h</sup> 6'18"	26 <sup>h</sup> 23'	17 <sup>h</sup> 38'	11 <sup>h</sup> 39'	22 <sup>h</sup> 23'	6 <sup>h</sup> 45'	25 <sup>h</sup> 24'	26 <sup>h</sup> 16'	23 <sup>h</sup> 48'	20 <sup>h</sup> 56'	12 <sup>h</sup> 14'	13 <sup>h</sup> 5'	4 <sup>h</sup> 3'	3 <sup>h</sup> 13'
F 26	20 15 0	3 <sup>h</sup> 3'39"	9 <sup>h</sup> 11' 0	19 <sup>h</sup> 31'	12 <sup>h</sup> 52'	23 <sup>h</sup> 2'	6 <sup>h</sup> 56'	25 <sup>h</sup> 26'	26 <sup>h</sup> 19'	23 <sup>h</sup> 47'	20 <sup>h</sup> 58'	12 <sup>h</sup> 2'	13 <sup>h</sup> 2'	4 <sup>h</sup> 10'	3 <sup>h</sup> 12'
S 27	20 18 57	4 <sup>h</sup> 1'00"	21 <sup>h</sup> 48'	21 <sup>h</sup> 26'	14 <sup>h</sup> 6'	23 <sup>h</sup> 41'	7 <sup>h</sup> 8'	25 <sup>h</sup> 27'	26 <sup>h</sup> 21'	23 <sup>h</sup> 47'	20 <sup>h</sup> 59'	11 <sup>h</sup> 52'	12 <sup>h</sup> 59'	4 <sup>h</sup> 16'	3 <sup>h</sup> 11'
S 28	20 22 53	4 <sup>h</sup> 58'22"	4 <sup>h</sup> 11'49"	23 <sup>h</sup> 24'	15 <sup>h</sup> 20'	24 <sup>h</sup> 20'	7 <sup>h</sup> 20'	25 <sup>h</sup> 28'	26 <sup>h</sup> 24'	23 <sup>h</sup> 47'	21 <sup>h</sup> 1'	11 <sup>h</sup> 45'	12 <sup>h</sup> 56'	4 <sup>h</sup> 23'	3 <sup>h</sup> 10'
M29	20 26 50	5 <sup>h</sup> 55'44"	18 <sup>h</sup> 0'	25 <sup>h</sup> 24'	16 <sup>h</sup> 34'	25 <sup>h</sup> 0'	7 <sup>h</sup> 32'	25 <sup>h</sup> 29'	26 <sup>h</sup> 27'	23 <sup>h</sup> 46'	21 <sup>h</sup> 2'	11 <sup>h</sup> 40'	12 <sup>h</sup> 52'	4 <sup>h</sup> 30'	3 <sup>h</sup> 9'
T 30	20 30 46	6 <sup>h</sup> 53'07"	1 <sup>h</sup> 23'	27 <sup>h</sup> 25'	17 <sup>h</sup> 48'	25 <sup>h</sup> 39'	7 <sup>h</sup> 44'	25 <sup>h</sup> 30'	26 <sup>h</sup> 29'	23 <sup>h</sup> 46'	21 <sup>h</sup> 4'	11 <sup>h</sup> 38'	12 <sup>h</sup> 49'	4 <sup>h</sup> 36'	3 <sup>h</sup> 8'
W31	20 34 43	7 <sup>h</sup> 10'31"	14 <sup>h</sup> 57'	29 <sup>h</sup> 28'	19 <sup>h</sup> 11' 2	26 <sup>h</sup> 18'	7 <sup>h</sup> 56'	25 <sup>h</sup> 31'	26 <sup>h</sup> 32'	23 <sup>h</sup> 46'	21 <sup>h</sup> 6'	11 <sup>h</sup> 37'	12 <sup>h</sup> 46'	4 <sup>h</sup> 43'	3 <sup>h</sup> 6'

Delta T = 38.73 sec.

AUGUST 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 38 39	8 <sup>h</sup> 14'55"	28 <sup>h</sup> 44'	1 <sup>h</sup> 13'2	20 <sup>h</sup> 11'6	26 <sup>h</sup> 55'7	8 <sup>h</sup> 11' 8	25 <sup>h</sup> 11'31"	26 <sup>h</sup> 11'35"	23 <sup>h</sup> 11'46"	21 <sup>h</sup> 11' 7	11 <sup>h</sup> 11'38"	12 <sup>h</sup> 11'43"	4 <sup>h</sup> 11'50"	3 <sup>h</sup> 11' 5
F 2	20 42 36	9 <sup>h</sup> 45'20"	12 <sup>h</sup> 11'43"	3 <sup>h</sup> 37'	21 <sup>h</sup> 30'	27 <sup>h</sup> 36'	8 <sup>h</sup> 20'	25 <sup>h</sup> 32'	26 <sup>h</sup> 38'	23 <sup>h</sup> 11'46"	21 <sup>h</sup> 9	11 <sup>h</sup> 11'38"	12 <sup>h</sup> 11'40"	4 <sup>h</sup> 56'	3 <sup>h</sup> 11' 4
S 3	20 46 32	10 <sup>h</sup> 42'45"	26 <sup>h</sup> 55'	5 <sup>h</sup> 42'	22 <sup>h</sup> 43'	28 <sup>h</sup> 15'	8 <sup>h</sup> 32'	25 <sup>h</sup> 32'	26 <sup>h</sup> 41'	23 <sup>h</sup> 46'	21 <sup>h</sup> 11'	11 <sup>h</sup> 11'37"	12 <sup>h</sup> 11'37"	5 <sup>h</sup> 3'	3 <sup>h</sup> 2'
S 4	20 50 29	11 <sup>h</sup> 40'11"	11 <sup>h</sup> 11'17"	7 <sup>h</sup> 47'	23 <sup>h</sup> 57'	28 <sup>h</sup> 53'	8 <sup>h</sup> 44'	25 <sup>h</sup> 33'	26 <sup>h</sup> 44'	23 <sup>h</sup> 46'	21 <sup>h</sup> 13'	11 <sup>h</sup> 11'34"	12 <sup>h</sup> 11'33"	5 <sup>h</sup> 10'	3 <sup>h</sup> 1'
M 5	20 54 26	12 <sup>h</sup> 37'38"	25 <sup>h</sup> 47'	9 <sup>h</sup> 52'	25 <sup>h</sup> 11'	29 <sup>h</sup> 32'	8 <sup>h</sup> 57'	25 <sup>h</sup> 33'	26 <sup>h</sup> 47'	23 <sup>h</sup> 46'	21 <sup>h</sup> 15'	11 <sup>h</sup> 11'28"	12 <sup>h</sup> 11'30"	5 <sup>h</sup> 16'	3 <sup>h</sup> 0'
T 6	20 58 22	13 <sup>h</sup> 35'06"	10 <sup>h</sup> 11'20"	11 <sup>h</sup> 57'	26 <sup>h</sup> 25'	0 <sup>h</sup> 11'1	9 <sup>h</sup> 9	25 <sup>h</sup> 33'	26 <sup>h</sup> 50'	23 <sup>h</sup> 46'	21 <sup>h</sup> 16'	11 <sup>h</sup> 11'21"	12 <sup>h</sup> 11'27"	5 <sup>h</sup> 23'	2 <sup>h</sup> 58'
W 7	21 2 19	14 <sup>h</sup> 32'34"	24 <sup>h</sup> 50'	14 <sup>h</sup> 1'	27 <sup>h</sup> 39'	0 <sup>h</sup> 50'	9 <sup>h</sup> 21'	25 <sup>h</sup> 33'	26 <sup>h</sup> 53'	23 <sup>h</sup> 46'	21 <sup>h</sup> 18'	11 <sup>h</sup> 11'12"	12 <sup>h</sup> 11'24"	5 <sup>h</sup> 30'	2 <sup>h</sup> 56'
T 8	21 6 15	15 <sup>h</sup> 30'03"	9 <sup>h</sup> 11'10"	16 <sup>h</sup> 4'	28 <sup>h</sup> 53'	1 <sup>h</sup> 29'	9 <sup>h</sup> 34'	25 <sup>h</sup> 33'	26 <sup>h</sup> 56'	23 <sup>h</sup> 46'	21 <sup>h</sup> 20'	11 <sup>h</sup> 4'	12 <sup>h</sup> 11'21"	5 <sup>h</sup> 37'	2 <sup>h</sup> 55'
F 9	21 10 12	16 <sup>h</sup> 27'34"	23 <sup>h</sup> 14'	18 <sup>h</sup> 7'	0 <sup>h</sup> 11' 7	2 <sup>h</sup> 7'	9 <sup>h</sup> 46'	25 <sup>h</sup> 33'	26 <sup>h</sup> 59'	23 <sup>h</sup> 46'	21 <sup>h</sup> 22'	10 <sup>h</sup> 56'	12 <sup>h</sup> 11'17"	5 <sup>h</sup> 43'	2 <sup>h</sup> 53'
S 10	21 14 8	17 <sup>h</sup> 25'05"	6 <sup>h</sup> 11'57"	20 <sup>h</sup> 8'	1 <sup>h</sup> 21'	2 <sup>h</sup> 46'	9 <sup>h</sup> 58'	25 <sup>h</sup> 33'	27 <sup>h</sup> 2'	23 <sup>h</sup> 46'	21 <sup>h</sup> 24'	10 <sup>h</sup> 50'	12 <sup>h</sup> 11'14"	5 <sup>h</sup> 50'	2 <sup>h</sup> 52'
S 11	21 18 5	18 <sup>h</sup> 22'38"	20 <sup>h</sup> 18'	22 <sup>h</sup> 8'	2 <sup>h</sup> 34'	3 <sup>h</sup> 25'	10 <sup>h</sup> 11'	25 <sup>h</sup> 32'	27 <sup>h</sup> 5'	23 <sup>h</sup> 46'	21 <sup>h</sup> 26'	10 <sup>h</sup> 45'	12 <sup>h</sup> 11'11"	5 <sup>h</sup> 57'	2 <sup>h</sup> 50'
M12	21 22 1	19 <sup>h</sup> 20'11"	3 <sup>h</sup> 11'16"	24 <sup>h</sup> 7'	3 <sup>h</sup> 48'	4 <sup>h</sup> 4'	10 <sup>h</sup> 23'	25 <sup>h</sup> 32'	27 <sup>h</sup> 8'	23 <sup>h</sup> 46'	21 <sup>h</sup> 28'	10 <sup>h</sup> 44'	12 <sup>h</sup> 8'	6 <sup>h</sup> 3'	2 <sup>h</sup> 48'
T 13	21 25 58	20 <sup>h</sup> 17'47"	15 <sup>h</sup> 53'	26 <sup>h</sup> 5'	5 <sup>h</sup> 2'	4 <sup>h</sup> 42'	10 <sup>h</sup> 36'	25 <sup>h</sup> 31'	27 <sup>h</sup> 11'	23 <sup>h</sup> 47'	21 <sup>h</sup> 30'	10 <sup>h</sup> 43'	12 <sup>h</sup> 5'	6 <sup>h</sup> 10'	2 <sup>h</sup> 46'
W14	21 29 55	21 <sup>h</sup> 15'23"	28 <sup>h</sup> 11'	28 <sup>h</sup> 1'	6 <sup>h</sup> 16'	5 <sup>h</sup> 21'	10 <sup>h</sup> 49'	25 <sup>h</sup> 31'	27 <sup>h</sup> 14'	23 <sup>h</sup> 47'	21 <sup>h</sup> 31'	10 <sup>h</sup> 44'	12 <sup>h</sup> 2'	6 <sup>h</sup> 17'	2 <sup>h</sup> 44'
T 15	21 33 51	22 <sup>h</sup> 13'01"	10 <sup>h</sup> 11'15"	29 <sup>h</sup> 56'	7 <sup>h</sup> 30'	5 <sup>h</sup> 59'	11 <sup>h</sup> 1'	25 <sup>h</sup> 30'	27 <sup>h</sup> 18'	23 <sup>h</sup> 47'	21 <sup>h</sup> 33'	10 <sup>h</sup> 46'	11 <sup>h</sup> 58'	6 <sup>h</sup> 23'	2 <sup>h</sup> 43'
F 16	21 37 48	23 <sup>h</sup> 10'41"	22 <sup>h</sup> 10'	1 <sup>h</sup> 11'49"	8 <sup>h</sup> 44'	6 <sup>h</sup> 38'	11 <sup>h</sup> 14'	25 <sup>h</sup> 29'	27 <sup>h</sup> 21'	23 <sup>h</sup> 47'	21 <sup>h</sup> 35'	10 <sup>h</sup> 46'	11 <sup>h</sup> 55'	6 <sup>h</sup> 30'	2 <sup></sup>

# SWISS EPHEMERIS for the year 1968

SEPTEMBER 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	22 40 53	8♂36'44	22♂ 5	28♂56	28♂26	16♂52	14♂39	25°R 1	28♂16	23♂57	22♂ 9	10°R 2	11°Y 4	8♂17	2°R 5
M 2	22 44 49	9°34'49	6♂18	0♂26	29°40	17°30	14°52	24°Y59	28°20	23°58	22°11	10°Y 0	11° 1	8°24	2°Y 3
T 3	22 48 46	10°32'55	20°26	1°55	0♂53	18° 8	15° 5	24°56	28°24	23°59	22°13	9°57	10°58	8°31	2° 0
W 4	22 52 42	11°31'03	4♂29	3°23	2° 7	18°46	15°18	24°54	28°27	24° 0	22°15	9°53	10°55	8°37	1°58
T 5	22 56 39	12°29'12	18°21	4°50	3°21	19°24	15°31	24°51	28°31	24° 1	22°17	9°49	10°52	8°44	1°55
F 6	23 0 35	13°27'22	2♂ 0	6°15	4°35	20° 2	15°44	24°48	28°35	24° 2	22°19	9°45	10°49	8°51	1°53
S 7	23 4 32	14°25'34	15°23	7°39	5°48	20°41	15°57	24°45	28°38	24° 3	22°22	9°42	10°45	8°58	1°50
S 8	23 8 28	15°23'48	28°29	9° 1	7° 2	21°19	16°10	24°42	28°42	24° 4	22°24	9°40	10°42	9° 4	1°48
M 9	23 12 25	16°22'04	11°Y17	10°22	8°16	21°56	16°23	24°39	28°46	24° 5	22°26	9°D40	10°39	9°11	1°45
T 10	23 16 21	17°20'22	23°48	11°41	9°30	22°34	16°36	24°36	28°50	24° 6	22°28	9°41	10°36	9°18	1°43
W 11	23 20 18	18°18'41	6♂ 3	12°59	10°43	23°12	16°49	24°32	28°53	24° 7	22°30	9°42	10°33	9°24	1°40
T 12	23 24 15	19°17'03	18° 7	14°16	11°57	23°50	17° 2	24°29	28°57	24° 8	22°33	9°44	10°29	9°31	1°37
F 13	23 28 11	20°15'27	0♂ 3	15°31	13°11	24°28	17°15	24°25	29° 1	24°10	22°35	9°45	10°26	9°38	1°35
S 14	23 32 8	21°13'53	11°55	16°44	14°25	25° 6	17°28	24°22	29° 4	24°11	22°37	9°46	10°23	9°44	1°32
S 15	23 36 4	22°12'21	23°48	17°55	15°38	25°44	17°41	24°18	29° 8	24°12	22°39	9°R46	10°20	9°51	1°29
M 16	23 40 1	23°10'52	5♂46	19° 5	16°52	26°22	17°54	24°15	29°12	24°13	22°41	9°46	10°17	9°58	1°27
T 17	23 43 57	24° 9'24	17°55	20°13	18° 6	27° 0	18° 7	24°11	29°16	24°15	22°44	9°45	10°14	10° 5	1°24
W 18	23 47 54	25° 7'59	0♂18	21°18	19°19	27°37	18°20	24° 7	29°20	24°16	22°46	9°43	10°10	10°11	1°21
T 19	23 51 50	26° 6'35	12°59	22°21	20°33	28°15	18°33	24° 3	29°23	24°17	22°48	9°41	10° 7	10°18	1°19
F 20	23 55 47	27° 5'14	26° 0	23°22	21°47	28°53	18°46	23°59	29°27	24°19	22°50	9°39	10° 4	10°25	1°16
S 21	23 59 44	28° 3'55	9♂21	24°21	23° 0	29°31	18°59	23°55	29°31	24°20	22°52	9°38	10° 1	10°31	1°13
S 22	0 3 40	29° 2'38	23° 3	25°17	24°14	0♂ 8	19°12	23°51	29°35	24°22	22°55	9°37	9°58	10°38	1°10
M 23	0 7 37	0♂ 1	7♂ 2	26°10	25°28	0°46	19°24	23°47	29°39	24°23	22°57	9°D36	9°54	10°45	1° 8
T 24	0 11 33	1° 0'10	21°15	26°59	26°41	1°24	19°37	23°43	29°42	24°25	22°59	9°36	9°51	10°51	1° 5
W 25	0 15 30	1°58'58	5♂37	27°46	27°55	2° 1	19°50	23°39	29°46	24°26	23° 1	9°37	9°48	10°58	1° 2
T 26	0 19 26	2°57'49	20° 4	28°28	29° 9	2°39	20° 3	23°35	29°50	24°28	23° 3	9°38	9°45	11° 5	1° 0
F 27	0 23 23	3°56'42	4♂30	29° 7	0♂22	3°17	20°16	23°30	29°54	24°29	23° 6	9°38	9°42	11°12	0°57
S 28	0 27 19	4°55'36	18°52	29°41	1°36	3°54	20°29	23°26	29°57	24°31	23° 8	9°38	9°39	11°18	0°54
S 29	0 31 16	5°54'32	3♂ 7	0♂11	2°49	4°32	20°41	23°21	0♂ 1	24°32	23°10	9°R39	9°35	11°25	0°51
M 30	0 35 13	6♂53'29	17♂11	0♂35	4♂ 3	5♂ 9	20♂54	23°Y17	0♂ 5	24♂34	23♂12	9°Y39	9°Y32	11♂32	0°Y49

Delta T = 38.89 sec.

OCTOBER 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	0 39 9	7♂52'29	1♂ 3	0♂55	5♂16	5♂47	21♂ 7	23°R13	0♂ 9	24♂36	23♂14	9°R38	9°Y29	11♂38	0°R46
W 2	0 43 6	8°51'30	14°42	1° 8	6°30	6°24	21°20	23°Y 8	0°13	24°37	23°16	9°Y38	9°26	11°45	0°Y43
T 3	0 47 2	9°50'33	28° 9	1°R14	7°43	7° 2	21°32	23° 3	0°16	24°39	23°18	9°D38	9°23	11°52	0°41
F 4	0 50 59	10°49'37	11♂21	1°14	8°57	7°39	21°45	22°59	0°20	24°41	23°21	9°38	9°20	11°59	0°38
S 5	0 54 55	11°48'44	24°21	1° 7	10°10	8°16	21°57	22°54	0°24	24°43	23°23	9°39	9°16	12° 5	0°35
S 6	0 58 52	12°47'52	7°Y 6	0°52	11°24	8°54	22°10	22°50	0°28	24°44	23°25	9°R39	9°13	12°12	0°33
M 7	1 2 48	13°47'02	19°39	0°29	12°37	9°31	22°23	22°45	0°31	24°46	23°27	9°39	9°10	12°19	0°30
T 8	1 6 45	14°46'15	1♂59	29♂58	13°51	10° 9	22°35	22°40	0°35	24°48	23°29	9°38	9° 7	12°25	0°27
W 9	1 10 42	15°45'29	14° 9	29°19	15° 4	10°46	22°48	22°36	0°39	24°50	23°31	9°38	9° 4	12°32	0°25
T 10	1 14 38	16°44'46	26°10	28°33	16°18	11°23	23° 0	22°31	0°42	24°52	23°33	9°37	9° 0	12°39	0°22
F 11	1 18 35	17°44'05	8♂ 4	27°38	17°31	12° 0	23°12	22°26	0°46	24°54	23°35	9°36	8°57	12°45	0°20
S 12	1 22 31	18°43'27	19°55	26°38	18°44	12°38	23°25	22°21	0°50	24°55	23°37	9°34	8°54	12°52	0°17
S 13	1 26 28	19°42'51	1♂47	25°31	19°58	13°15	23°37	22°17	0°53	24°57	23°39	9°34	8°51	12°59	0°15
M 14	1 30 24	20°42'16	13°44	24°21	21°11	13°52	23°49	22°12	0°57	24°59	23°41	9°33	8°48	13° 6	0°12
T 15	1 34 21	21°41'45	25°51	23° 8	22°24	14°29	24° 2	22° 7	1° 1	25° 1	23°43	9°D33	8°45	13°12	0°10
W 16	1 38 17	22°41'15	8♂11	21°55	23°38	15° 6	24°14	22° 2	1° 4	25° 3	23°45	9°33	8°41	13°19	0° 7
T 17	1 42 14	23°40'48	20°50	20°44	24°51	15°44	24°26	21°57	1° 8	25° 5	23°47	9°34	8°38	13°26	0° 5
F 18	1 46 11	24°40'23	3♂51	19°36	26° 4	16°21	24°38	21°53	1°11	25° 7	23°49	9°36	8°35	13°32	0° 2
S 19	1 50 7	25°40'00	17°16	18°35	27°17	16°58	24°50	21°48	1°15	25° 9	23°51	9°37	8°32	13°39	0° 0
S 20	1 54 4	26°39'40	1♂ 7	17°40	28°31	17°35	25° 2	21°43	1°18	25°11	23°53	9°38	8°29	13°46	29♂57
M 21	1 58 0	27°39'21	15°22	16°55	29°44	18°12	25°14	21°38	1°22	25°13	23°55	9°R38	8°26	13°53	29°55
T 22	2 1 57	28°39'05	29°57	16°21	0♂57	18°49	25°26	21°34	1°25	25°15	23°57	9°37	8°22	13°59	29°53
W 23	2 5 53	29°38'51	14♂45	15°57	2°10	19°26	25°38	21°29	1°29	25°17	23°59	9°35	8°19	14° 6	29°51
T 24	2 9 50	0♂38'38	29°40	15°45	3°24	20° 3	25°49	21°24	1°32	25°19	24° 1	9°32	8°16	14°13	29°48
F 25	2 13 46	1°38'28	14♂33	15°D43	4°37	20°40	26° 1	21°20	1°36	25°21	24° 3	9°29	8°13	14°19	29°46
S 26	2 17 43	2°38'19	29°15	15°53	5°50	21°17	26°13	21°15	1°39	25°24	24° 4	9°26	8°10	14°26	29°44
S 27	2 21 40	3°38'12	13♂43	16°14	7° 3	21°54	26°24	21°10	1°42	25°26	24° 6	9°24	8° 6	14°33	29°42
M 28	2 25 36	4°38'07	27°51	16°44	8°16	22°31	26°36	21° 6	1°46	25°28	24° 8	9°23	8° 3	14°40	29°40
T 29	2 29 33	5°38'03	11♂38	17°24	9°29	23° 7	26°47	21° 1	1°49	25°30	24°10	9°D23	8° 0	14°46	29°38
W 30	2 33 29	6°38'01	25° 5	18°11	10°42	23°44	26°59	20°57	1°52	25°32	24°12	9°24	7°57	14°53	29°36
T 31	2 37 26	7♂38'00	8♂14	19♂ 6	11♂55	24♂21	27♂10	20°Y52	1♂56	25♂34	24♂13	9°Y26	7°Y54	15♂ 0	29♂34

Delta T = 38.96 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]

# SWISS EPHEMERIS for the year 1968

NOVEMBER 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	2 41 22	8♉38°01	21♊6	20♋8	13♌8	24♍58	27♎21	20°R48	1♏59	25♐36	24♑15	9♒27	7♓51	15♈6	29°R32
S 2	2 45 19	9°38'03	3♈45	21°15	14°21	25°34	27°32	20°Y43	2° 2	25°39	24°17	9°R28	7°47	15°13	29°X30
S 3	2 49 15	10°38'08	16°11	22°27	15°34	26°11	27°44	20°39	2° 5	25°41	24°18	9°28	7°44	15°20	29°28
M 4	2 53 12	11°38'13	28°28	23°43	16°47	26°48	27°55	20°35	2° 8	25°43	24°20	9°27	7°41	15°27	29°26
T 5	2 57 9	12°38'21	10♋36	25° 3	18° 0	27°24	28° 6	20°31	2°12	25°45	24°22	9°23	7°38	15°33	29°24
W 6	3 1 5	13°38'31	22°38	26°26	19°13	28° 1	28°16	20°26	2°15	25°47	24°23	9°18	7°35	15°40	29°22
T 7	3 5 2	14°38'42	4♈34	27°52	20°25	28°38	28°27	20°22	2°18	25°50	24°25	9°12	7°32	15°47	29°21
F 8	3 8 58	15°38'56	16°27	29°19	21°38	29°14	28°38	20°18	2°21	25°52	24°26	9° 5	7°28	15°53	29°19
S 9	3 12 55	16°39'11	28°18	0♉49	22°51	29°51	28°49	20°14	2°24	25°54	24°28	8°58	7°25	16° 0	29°17
S 10	3 16 51	17°39'28	10♊10	2°19	24° 4	0♋27	28°59	20°10	2°27	25°56	24°29	8°52	7°22	16° 7	29°16
M 11	3 20 48	18°39'47	22° 6	3°52	25°16	1° 4	29°10	20° 6	2°30	25°59	24°31	8°47	7°19	16°14	29°14
T 12	3 24 44	19°40'08	4♈10	5°24	26°29	1°40	29°20	20° 2	2°33	26° 1	24°32	8°43	7°16	16°20	29°13
W 13	3 28 41	20°40'31	16°26	6°58	27°42	2°16	29°30	19°59	2°35	26° 3	24°34	8°D42	7°12	16°27	29°11
T 14	3 32 38	21°40'56	28°59	8°32	28°54	2°53	29°40	19°55	2°38	26° 5	24°35	8°42	7° 9	16°34	29°10
F 15	3 36 34	22°41'23	11♈53	10° 7	0♋7	3°29	29°51	19°51	2°41	26° 8	24°36	8°43	7° 6	16°40	29° 8
S 16	3 40 31	23°41'51	25°12	11°42	1°19	4° 6	0♋1	19°48	2°44	26°10	24°38	8°45	7° 3	16°47	29° 7
S 17	3 44 27	24°42'21	9♋0	13°17	2°32	4°42	0°10	19°44	2°46	26°12	24°39	8°R45	7° 0	16°54	29° 6
M 18	3 48 24	25°42'54	23°15	14°53	3°44	5°18	0°20	19°41	2°49	26°14	24°40	8°44	6°57	17° 1	29° 5
T 19	3 52 20	26°43'28	7♉57	16°28	4°56	5°54	0°30	19°38	2°52	26°17	24°42	8°41	6°53	17° 7	29° 3
W 20	3 56 17	27°44'03	22°59	18° 3	6° 9	6°30	0°40	19°34	2°54	26°19	24°43	8°36	6°50	17°14	29° 2
T 21	4 0 13	28°44'40	8♌14	19°39	7°21	7° 7	0°49	19°31	2°57	26°21	24°44	8°29	6°47	17°21	29° 1
F 22	4 4 10	29°45'19	23°29	21°14	8°33	7°43	0°58	19°28	2°59	26°23	24°45	8°21	6°44	17°27	29° 0
S 23	4 8 7	0♌45'59	8♋34	22°49	9°46	8°19	1° 8	19°25	3° 2	26°26	24°46	8°13	6°41	17°34	28°59
S 24	4 12 3	1°46'40	23°21	24°25	10°58	8°55	1°17	19°22	3° 4	26°28	24°48	8° 6	6°38	17°41	28°58
M 25	4 16 0	2°47'23	7♉42	26° 0	12°10	9°31	1°26	19°19	3° 7	26°30	24°49	8° 1	6°34	17°48	28°58
T 26	4 19 56	3°48'06	21°37	27°35	13°22	10° 7	1°35	19°17	3° 9	26°32	24°50	7°58	6°31	17°54	28°57
W 27	4 23 53	4°48'50	5♈4	29°10	14°34	10°43	1°44	19°14	3°11	26°35	24°51	7°D57	6°28	18° 1	28°56
T 28	4 27 49	5°49'35	18° 7	0♌44	15°46	11°19	1°53	19°12	3°13	26°37	24°52	7°58	6°25	18° 8	28°55
F 29	4 31 46	6°50'21	0♈49	2°19	16°58	11°54	2° 1	19° 9	3°16	26°39	24°53	7°59	6°22	18°14	28°55
S 30	4 35 42	7°51'08	13♈15	3♌53	18°30	12°30	2°10	19°Y 7	3°18	26°41	24°54	7°R59	6°Y18	18°I21	28°X54

Delta T = 39.04 sec.

DECEMBER 1968

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 39 39	8♌51'56	25♈29	5♌28	19♉21	13♋6	2♌18	19°R 5	3♏20	26♍44	24♎55	7°R57	6°Y15	18°I28	28°R54
M 2	4 43 36	9°52'45	7♉33	7° 2	20°33	13°42	2°26	19°Y 2	3°22	26°46	24°55	7°Y53	6°12	18°35	28°X53
T 3	4 47 32	10°53'36	19°32	8°37	21°45	14°17	2°34	19° 0	3°24	26°48	24°56	7°46	6° 9	18°41	28°53
W 4	4 51 29	11°54'27	1♈26	10°11	22°56	14°53	2°42	18°58	3°26	26°50	24°57	7°36	6° 6	18°48	28°52
T 5	4 55 25	12°55'19	13°19	11°45	24° 8	15°29	2°50	18°57	3°28	26°52	24°58	7°24	6° 3	18°55	28°52
F 6	4 59 22	13°56'12	25°11	13°19	25°19	16° 4	2°58	18°55	3°29	26°55	24°59	7°11	5°59	19° 1	28°52
S 7	5 3 18	14°57'07	7♊4	14°54	26°31	16°40	3° 6	18°53	3°31	26°57	24°59	6°57	5°56	19° 8	28°51
S 8	5 7 15	15°58'02	19° 0	16°28	27°42	17°15	3°13	18°52	3°33	26°59	25° 0	6°45	5°53	19°15	28°51
M 9	5 11 12	16°58'59	0♈59	18° 2	28°53	17°51	3°20	18°50	3°35	27° 1	25° 1	6°34	5°50	19°22	28°51
T 10	5 15 8	17°59'56	13° 5	19°36	0♋4	18°26	3°28	18°49	3°36	27° 3	25° 1	6°26	5°47	19°28	28°D51
W 11	5 19 5	19° 0'55	25°21	21°11	1°15	19° 1	3°35	18°48	3°38	27° 5	25° 2	6°21	5°44	19°35	28°51
T 12	5 23 1	20° 1'55	7♈51	22°45	2°26	19°37	3°42	18°47	3°40	27° 7	25° 2	6°19	5°40	19°42	28°51
F 13	5 26 58	21° 2'56	20°38	24°20	3°37	20°12	3°48	18°46	3°41	27°10	25° 3	6°D18	5°37	19°48	28°51
S 14	5 30 54	22° 3'57	3♌48	25°54	4°47	20°47	3°55	18°45	3°42	27°12	25° 3	6°R18	5°34	19°55	28°52
S 15	5 34 51	23° 5'00	17°24	27°29	5°58	21°22	4° 1	18°44	3°44	27°14	25° 4	6°18	5°31	20° 2	28°52
M 16	5 38 47	24° 6'04	1♉29	29° 4	7° 8	21°57	4° 8	18°43	3°45	27°16	25° 4	6°16	5°28	20° 9	28°52
T 17	5 42 44	25° 7'09	16° 1	0♋39	8°19	22°32	4°14	18°43	3°46	27°18	25° 5	6°11	5°24	20°15	28°52
W 18	5 46 41	26° 8'15	0♌58	2°14	9°29	23° 7	4°20	18°42	3°48	27°20	25° 5	6° 4	5°21	20°22	28°53
T 19	5 50 37	27° 9'22	16°13	3°49	10°39	23°42	4°26	18°42	3°49	27°22	25° 5	5°54	5°18	20°29	28°53
F 20	5 54 34	28°10'29	1♋35	5°25	11°49	24°17	4°32	18°42	3°50	27°24	25° 6	5°42	5°15	20°36	28°54
S 21	5 58 30	29°11'37	16°51	7° 0	12°59	24°52	4°37	18°D42	3°51	27°26	25° 6	5°31	5°12	20°42	28°54
S 22	6 2 27	0♋12'45	1♌52	8°36	14° 9	25°27	4°42	18°42	3°52	27°28	25° 6	5°20	5° 9	20°49	28°55
M 23	6 6 23	1°13'53	16°28	10°12	15°19	26° 2	4°48	18°42	3°53	27°30	25° 6	5°12	5° 5	20°56	28°56
T 24	6 10 20	2°15'02	0♈34	11°47	16°29	26°36	4°53	18°42	3°54	27°32	25° 6	5° 7	5° 2	21° 2	28°56
W 25	6 14 16	3°16'10	14°10	13°23	17°38	27°11	4°58	18°42	3°55	27°34	25° 6	5° 4	4°59	21° 9	28°57
T 26	6 18 13	4°17'19	27°18	14°59	18°47	27°45	5° 2	18°43	3°55	27°36	25° 7	5° 3	4°56	21°16	28°58
F 27	6 22 10	5°18'27	10♈1	16°35	19°56	28°20	5° 7	18°43	3°56	27°38	25° 7	5° 3	4°53	21°23	28°59
S 28	6 26 6	6°19'36	22°25	18°11	21° 5	28°54	5°11	18°44	3°57	27°39	25°R 7	5° 2	4°50	21°29	29° 0
S 29	6 30 3	7°20'44	4♋34	19°47	22°14	29°28	5°16	18°45	3°57	27°41	25° 7	5° 0	4°46	21°36	29° 1
M 30	6 33 59	8°21'53	16°32	21°22	23°23	0♉3	5°20	18°46	3°58	27°43	25° 7	4°55	4°43	21°43	29° 2
T 31	6 37 56	9♋23'01	28♋26	22°35	24°31	0♉37	5°24	18°Y47	3°59	27°45	25°Y 6	4°Y47	4°Y40	21°I49	29°X 3

Delta T = 39.12 sec.

created from Swiss Ephemeris, Copyright Astrodienst AG [11.2.2014]