

# SWISS EPHEMERIS for the year 1984

JANUARY 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	6 39 22	9♂44'41	14♂7	8°R 7	29♂54	24♂40	25♂55	13♂56	11♂8	29♂21	1♂47	15°R54	14♂32	2♂12	28°R27
M 2	6 43 18	10°45'52	26°48	6♂47	1♂6	25°12	26°8	14°1	11°12	29°23	1°48	15♂53	14°29	2°19	28♂25
T 3	6 47 15	11°47'04	9♂18	5°30	2°18	25°44	26°21	14°6	11°15	29°25	1°50	15°51	14°25	2°26	28°23
W 4	6 51 11	12°48'15	21°37	4°20	3°31	26°16	26°35	14°11	11°18	29°27	1°51	15°48	14°22	2°32	28°21
T 5	6 55 8	13°49'26	3♂47	3°17	4°43	26°48	26°48	14°16	11°22	29°30	1°52	15°43	14°19	2°39	28°19
F 6	6 59 5	14°50'37	15°49	2°23	5°56	27°19	27°2	14°21	11°25	29°32	1°53	15°38	14°16	2°46	28°17
S 7	7 3 1	15°51'48	27°44	1°39	7°8	27°51	27°15	14°25	11°28	29°34	1°54	15°32	14°13	2°52	28°15
S 8	7 6 58	16°52'58	9♂36	1°6	8°21	28°22	27°28	14°30	11°31	29°36	1°55	15°27	14°9	2°59	28°13
M 9	7 10 54	17°54'08	21°27	0°42	9°33	28°53	27°41	14°35	11°34	29°39	1°56	15°23	14°6	3°6	28°11
T 10	7 14 51	18°55'18	3♂21	0°28	10°46	29°25	27°55	14°39	11°37	29°41	1°57	15°20	14°3	3°13	28°9
W 11	7 18 47	19°56'27	15°23	0°D23	11°59	29°56	28°8	14°43	11°41	29°43	1°58	15°D19	14°0	3°19	28°8
T 12	7 22 44	20°57'35	27°37	0°27	13°12	0♂27	28°21	14°48	11°44	29°45	1°58	15°19	13°57	3°26	28°6
F 13	7 26 40	21°58'43	10♂9	0°39	14°25	0°57	28°34	14°52	11°47	29°47	1°59	15°20	13°54	3°33	28°4
S 14	7 30 37	22°59'50	23°2	0°59	15°37	1°28	28°47	14°56	11°50	29°49	2°0	15°22	13°50	3°40	28°3
S 15	7 34 34	24°0'57	6♂20	1°25	16°50	1°59	29°0	15°0	11°53	29°51	2°1	15°23	13°47	3°46	28°1
M 16	7 38 30	25°2'03	20°6	1°57	18°3	2°29	29°13	15°4	11°56	29°54	2°2	15°R23	13°44	3°53	28°0
T 17	7 42 27	26°3'09	4♂19	2°35	19°16	2°59	29°26	15°8	11°59	29°56	2°2	15°22	13°41	4°0	27°59
W 18	7 46 23	27°4'14	18°56	3°18	20°29	3°29	29°39	15°11	12°1	29°58	2°3	15°18	13°38	4°6	27°57
T 19	7 50 20	28°5'18	3♂52	4°6	21°43	3°59	29°52	15°15	12°4	0♂0	2°3	15°13	13°35	4°13	27°56
F 20	7 54 16	29°6'22	18°57	4°57	22°56	4°29	0♂5	15°19	12°7	0°2	2°4	15°6	13°31	4°20	27°55
S 21	7 58 13	0♂725	4♂1	5°53	24°9	4°59	0°18	15°22	12°10	0°4	2°5	14°59	13°28	4°27	27°54
S 22	8 2 9	1°8'28	18°56	6°51	25°22	5°28	0°30	15°25	12°13	0°6	2°5	14°52	13°25	4°33	27°53
M 23	8 6 6	2°9'30	3♂33	7°53	26°36	5°58	0°43	15°29	12°15	0°8	2°6	14°47	13°22	4°40	27°52
T 24	8 10 3	3°10'32	17°49	8°57	27°49	6°27	0°56	15°32	12°18	0°10	2°6	14°44	13°19	4°47	27°51
W 25	8 13 59	4°11'33	1♂40	10°3	29°2	6°56	1°8	15°35	12°21	0°12	2°6	14°D43	13°15	4°53	27°50
T 26	8 17 56	5°12'34	15°9	11°12	0♂16	7°25	1°21	15°38	12°23	0°14	2°7	14°43	13°12	5°0	27°50
F 27	8 21 52	6°13'34	28°16	12°23	1°29	7°53	1°33	15°41	12°26	0°16	2°7	14°44	13°9	5°7	27°49
S 28	8 25 49	7°14'34	11♂6	13°36	2°43	8°22	1°45	15°44	12°28	0°18	2°7	14°R45	13°6	5°14	27°48
S 29	8 29 45	8°15'33	23°41	14°50	3°56	8°50	1°58	15°47	12°31	0°20	2°8	14°45	13°3	5°20	27°48
M 30	8 33 42	9°16'32	6♂4	16°6	5°10	9°18	2°10	15°49	12°33	0°21	2°8	14°42	13°0	5°27	27°47
T 31	8 37 38	10°17'29	18♂18	17♂23	6♂23	9♂46	2♂22	15♂52	12♂36	0♂23	2♂8	14♂37	12♂56	5♂34	27♂47

Delta T = 53.79 sec.

FEBRUARY 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	8 41 35	11°18'26	0♂25	18♂42	7♂37	10♂14	2♂34	15♂54	12♂38	0♂25	2♂8	14°R29	12♂53	5♂41	27°R46
T 2	8 45 32	12°19'22	12°26	20°2	8°51	10°42	2°46	15°57	12°40	0°27	2°8	14♂19	12°50	5°47	27♂46
F 3	8 49 28	13°20'16	24°22	21°23	10°4	11°9	2°58	15°59	12°43	0°29	2°8	14°8	12°47	5°54	27°46
S 4	8 53 25	14°21'10	6♂15	22°46	11°18	11°36	3°10	16°1	12°45	0°30	2°R8	13°55	12°44	6°1	27°46
S 5	8 57 21	15°22'02	18°7	24°9	12°32	12°3	3°22	16°3	12°47	0°32	2°8	13°43	12°41	6°7	27°46
M 6	9 1 18	16°22'53	29°58	25°34	13°45	12°30	3°34	16°5	12°49	0°34	2°8	13°33	12°37	6°14	27°D46
T 7	9 5 14	17°23'42	11°V53	26°59	14°59	12°56	3°46	16°7	12°51	0°36	2°8	13°24	12°34	6°21	27°46
W 8	9 9 11	18°24'30	23°53	28°26	16°13	13°22	3°57	16°9	12°53	0°37	2°8	13°19	12°31	6°28	27°46
T 9	9 13 7	19°25'17	6♂4	29°53	17°27	13°48	4°9	16°10	12°55	0°39	2°8	13°16	12°28	6°34	27°46
F 10	9 17 4	20°26'02	18°30	1♂22	18°40	14°14	4°20	16°12	12°57	0°41	2°8	13°D15	12°25	6°41	27°46
S 11	9 21 1	21°26'45	1♂16	2°51	19°54	14°40	4°32	16°13	12°59	0°42	2°7	13°15	12°21	6°48	27°47
S 12	9 24 57	22°27'27	14°26	4°21	21°8	15°5	4°43	16°15	13°1	0°44	2°7	13°R15	12°18	6°54	27°47
M 13	9 28 54	23°28'08	28°4	5°52	22°22	15°30	4°54	16°16	13°3	0°45	2°7	13°14	12°15	7°1	27°48
T 14	9 32 50	24°28'46	12♂12	7°24	23°36	15°55	5°5	16°17	13°4	0°47	2°6	13°11	12°12	7°8	27°48
W 15	9 36 47	25°29'23	26°48	8°57	24°49	16°19	5°16	16°18	13°6	0°48	2°6	13°6	12°9	7°15	27°49
T 16	9 40 43	26°29'59	11♂49	10°30	26°3	16°44	5°27	16°19	13°8	0°50	2°6	12°57	12°6	7°21	27°49
F 17	9 44 40	27°30'33	27°6	12°5	27°17	17°8	5°38	16°20	13°9	0°51	2°5	12°47	12°2	7°28	27°50
S 18	9 48 36	28°31'05	12♂28	13°40	28°31	17°31	5°49	16°21	13°11	0°53	2°5	12°36	11°59	7°35	27°51
S 19	9 52 33	29°31'36	27°42	15°17	29°45	17°55	6°0	16°21	13°13	0°54	2°4	12°25	11°56	7°42	27°52
M 20	9 56 30	0♂32'05	12♂39	16°54	0♂59	18°18	6°10	16°22	13°14	0°56	2°4	12°17	11°53	7°48	27°53
T 21	10 0 26	1°32'33	27°11	18°32	2°13	18°41	6°21	16°22	13°15	0°57	2°3	12°10	11°50	7°55	27°54
W 22	10 4 23	2°33'00	11♂15	20°11	3°27	19°4	6°31	16°23	13°17	0°58	2°3	12°7	11°47	8°2	27°55
T 23	10 8 19	3°33'25	24°49	21°51	4°41	19°26	6°41	16°23	13°18	1°0	2°2	12°5	11°43	8°8	27°56
F 24	10 12 16	4°33'49	7♂58	23°32	5°55	19°48	6°52	16°23	13°19	1°1	2°1	12°5	11°40	8°15	27°57
S 25	10 16 12	5°34'12	20°43	25°14	7°9	20°9	7°2	16°R23	13°21	1°2	2°1	12°5	11°37	8°22	27°59
S 26	10 20 9	6°34'33	3♂11	26°57	8°23	20°31	7°12	16°23	13°22	1°3	2°0	12°4	11°34	8°29	28°0
M 27	10 24 5	7°34'53	15°25	28°41	9°37	20°52	7°21	16°23	13°23	1°4	1°59	12°0	11°31	8°35	28°1
T 28	10 28 2	8°35'12	27°29	0♂26	10°51	21°12	7°31	16°22	13°24	1°6	1°58	11°53	11°27	8°42	28°3
W 29	10 31 59	9♂35'28	9♂27	2♂12	12♂5	21♂32	7♂41	16♂22	13♂25	1♂7	1♂57	11♂44	11♂24	8♂49	28♂4

Delta T = 53.84 sec.

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# SWISS EPHEMERIS for the year 1984

MARCH 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	10 35 55	10 <sup>h</sup> 35'43	21 <sup>h</sup> 21'	3 <sup>h</sup> 59'	13 <sup>h</sup> 19'	21 <sup>h</sup> 52'	7 <sup>h</sup> 50'	16 <sup>h</sup> 22'	13 <sup>h</sup> 26'	1 <sup>h</sup> 8'	1 <sup>h</sup> 57'	11 <sup>h</sup> 32'	11 <sup>h</sup> 21'	8 <sup>h</sup> 56'	28 <sup>h</sup> 6'
F 2	10 39 52	11 <sup>h</sup> 35'57	3 <sup>h</sup> 13'	5 <sup>h</sup> 47'	14 <sup>h</sup> 33'	22 <sup>h</sup> 12'	8 <sup>h</sup> 0'	16 <sup>h</sup> 21'	13 <sup>h</sup> 27'	1 <sup>h</sup> 9'	1 <sup>h</sup> 56'	11 <sup>h</sup> 17'	11 <sup>h</sup> 18'	9 <sup>h</sup> 2'	28 <sup>h</sup> 8'
S 3	10 43 48	12 <sup>h</sup> 36'08	15 <sup>h</sup> 5'	7 <sup>h</sup> 36'	15 <sup>h</sup> 47'	22 <sup>h</sup> 31'	8 <sup>h</sup> 9'	16 <sup>h</sup> 20'	13 <sup>h</sup> 28'	1 <sup>h</sup> 10'	1 <sup>h</sup> 55'	11 <sup>h</sup> 2'	11 <sup>h</sup> 15'	9 <sup>h</sup> 9'	28 <sup>h</sup> 9'
S 4	10 47 45	13 <sup>h</sup> 36'18	26 <sup>h</sup> 58'	9 <sup>h</sup> 26'	17 <sup>h</sup> 1'	22 <sup>h</sup> 49'	8 <sup>h</sup> 18'	16 <sup>h</sup> 19'	13 <sup>h</sup> 28'	1 <sup>h</sup> 11'	1 <sup>h</sup> 54'	10 <sup>h</sup> 47'	11 <sup>h</sup> 12'	9 <sup>h</sup> 16'	28 <sup>h</sup> 11'
M 5	10 51 41	14 <sup>h</sup> 36'26	8 <sup>h</sup> 53'	11 <sup>h</sup> 17'	18 <sup>h</sup> 15'	23 <sup>h</sup> 8'	8 <sup>h</sup> 27'	16 <sup>h</sup> 18'	13 <sup>h</sup> 29'	1 <sup>h</sup> 12'	1 <sup>h</sup> 53'	10 <sup>h</sup> 34'	11 <sup>h</sup> 8'	9 <sup>h</sup> 22'	28 <sup>h</sup> 13'
T 6	10 55 38	15 <sup>h</sup> 36'32	20 <sup>h</sup> 52'	13 <sup>h</sup> 9'	19 <sup>h</sup> 29'	23 <sup>h</sup> 26'	8 <sup>h</sup> 36'	16 <sup>h</sup> 17'	13 <sup>h</sup> 30'	1 <sup>h</sup> 13'	1 <sup>h</sup> 52'	10 <sup>h</sup> 24'	11 <sup>h</sup> 5'	9 <sup>h</sup> 29'	28 <sup>h</sup> 15'
W 7	10 59 34	16 <sup>h</sup> 36'36	2 <sup>h</sup> 58'	15 <sup>h</sup> 2'	20 <sup>h</sup> 43'	23 <sup>h</sup> 43'	8 <sup>h</sup> 45'	16 <sup>h</sup> 16'	13 <sup>h</sup> 30'	1 <sup>h</sup> 14'	1 <sup>h</sup> 51'	10 <sup>h</sup> 16'	11 <sup>h</sup> 2'	9 <sup>h</sup> 36'	28 <sup>h</sup> 17'
T 8	11 3 31	17 <sup>h</sup> 36'37	15 <sup>h</sup> 12'	16 <sup>h</sup> 56'	21 <sup>h</sup> 57'	24 <sup>h</sup> 0'	8 <sup>h</sup> 54'	16 <sup>h</sup> 15'	13 <sup>h</sup> 31'	1 <sup>h</sup> 14'	1 <sup>h</sup> 50'	10 <sup>h</sup> 11'	10 <sup>h</sup> 59'	9 <sup>h</sup> 43'	28 <sup>h</sup> 19'
F 9	11 7 28	18 <sup>h</sup> 36'37	27 <sup>h</sup> 39'	18 <sup>h</sup> 52'	23 <sup>h</sup> 11'	24 <sup>h</sup> 17'	9 <sup>h</sup> 3'	16 <sup>h</sup> 14'	13 <sup>h</sup> 32'	1 <sup>h</sup> 15'	1 <sup>h</sup> 49'	10 <sup>h</sup> 9'	10 <sup>h</sup> 56'	9 <sup>h</sup> 49'	28 <sup>h</sup> 21'
S 10	11 11 24	19 <sup>h</sup> 36'35	10 <sup>h</sup> 22'	20 <sup>h</sup> 48'	24 <sup>h</sup> 25'	24 <sup>h</sup> 33'	9 <sup>h</sup> 11'	16 <sup>h</sup> 12'	13 <sup>h</sup> 32'	1 <sup>h</sup> 16'	1 <sup>h</sup> 48'	10 <sup>h</sup> D 9	10 <sup>h</sup> 52'	9 <sup>h</sup> 56'	28 <sup>h</sup> 23'
S 11	11 15 21	20 <sup>h</sup> 36'30	23 <sup>h</sup> 26'	22 <sup>h</sup> 44'	25 <sup>h</sup> 39'	24 <sup>h</sup> 48'	9 <sup>h</sup> 19'	16 <sup>h</sup> 11'	13 <sup>h</sup> 32'	1 <sup>h</sup> 17'	1 <sup>h</sup> 46'	10 <sup>h</sup> R 9	10 <sup>h</sup> 49'	10 <sup>h</sup> 3'	28 <sup>h</sup> 25'
M 12	11 19 17	21 <sup>h</sup> 36'23	6 <sup>h</sup> 54'	24 <sup>h</sup> 42'	26 <sup>h</sup> 53'	25 <sup>h</sup> 4'	9 <sup>h</sup> 27'	16 <sup>h</sup> 9'	13 <sup>h</sup> 33'	1 <sup>h</sup> 18'	1 <sup>h</sup> 45'	10 <sup>h</sup> 8'	10 <sup>h</sup> 46'	10 <sup>h</sup> 9'	28 <sup>h</sup> 28'
T 13	11 23 14	22 <sup>h</sup> 36'14	20 <sup>h</sup> 51'	26 <sup>h</sup> 40'	28 <sup>h</sup> 7'	25 <sup>h</sup> 18'	9 <sup>h</sup> 36'	16 <sup>h</sup> 8'	13 <sup>h</sup> 33'	1 <sup>h</sup> 18'	1 <sup>h</sup> 44'	10 <sup>h</sup> 5'	10 <sup>h</sup> 43'	10 <sup>h</sup> 16'	28 <sup>h</sup> 30'
W 14	11 27 10	23 <sup>h</sup> 36'03	5 <sup>h</sup> 15'	28 <sup>h</sup> 39'	29 <sup>h</sup> 21'	25 <sup>h</sup> 32'	9 <sup>h</sup> 43'	16 <sup>h</sup> 6'	13 <sup>h</sup> 33'	1 <sup>h</sup> 19'	1 <sup>h</sup> 43'	10 <sup>h</sup> 0'	10 <sup>h</sup> 40'	10 <sup>h</sup> 23'	28 <sup>h</sup> 32'
T 15	11 31 7	24 <sup>h</sup> 35'50	20 <sup>h</sup> 4'	0 <sup>h</sup> 37'	0 <sup>h</sup> 35'	25 <sup>h</sup> 46'	9 <sup>h</sup> 51'	16 <sup>h</sup> 4'	13 <sup>h</sup> 34'	1 <sup>h</sup> 20'	1 <sup>h</sup> 42'	9 <sup>h</sup> 53'	10 <sup>h</sup> 37'	10 <sup>h</sup> 30'	28 <sup>h</sup> 35'
F 16	11 35 3	25 <sup>h</sup> 35'34	5 <sup>h</sup> 13'	2 <sup>h</sup> 36'	1 <sup>h</sup> 49'	25 <sup>h</sup> 59'	9 <sup>h</sup> 59'	16 <sup>h</sup> 2'	13 <sup>h</sup> 34'	1 <sup>h</sup> 20'	1 <sup>h</sup> 40'	9 <sup>h</sup> 43'	10 <sup>h</sup> 33'	10 <sup>h</sup> 36'	28 <sup>h</sup> 37'
S 17	11 39 0	26 <sup>h</sup> 35'16	20 <sup>h</sup> 31'	4 <sup>h</sup> 35'	3 <sup>h</sup> 3'	26 <sup>h</sup> 12'	10 <sup>h</sup> 6'	16 <sup>h</sup> 0'	13 <sup>h</sup> 34'	1 <sup>h</sup> 21'	1 <sup>h</sup> 39'	9 <sup>h</sup> 32'	10 <sup>h</sup> 30'	10 <sup>h</sup> 43'	28 <sup>h</sup> 40'
S 18	11 42 57	27 <sup>h</sup> 34'56	5 <sup>h</sup> 48'	6 <sup>h</sup> 34'	4 <sup>h</sup> 17'	26 <sup>h</sup> 24'	10 <sup>h</sup> 14'	15 <sup>h</sup> 58'	13 <sup>h</sup> R 34	1 <sup>h</sup> 21'	1 <sup>h</sup> 38'	9 <sup>h</sup> 22'	10 <sup>h</sup> 27'	10 <sup>h</sup> 50'	28 <sup>h</sup> 42'
M 19	11 46 53	28 <sup>h</sup> 34'34	20 <sup>h</sup> 53'	8 <sup>h</sup> 32'	5 <sup>h</sup> 31'	26 <sup>h</sup> 36'	10 <sup>h</sup> 21'	15 <sup>h</sup> 55'	13 <sup>h</sup> 34'	1 <sup>h</sup> 22'	1 <sup>h</sup> 36'	9 <sup>h</sup> 13'	10 <sup>h</sup> 24'	10 <sup>h</sup> 57'	28 <sup>h</sup> 45'
T 20	11 50 50	29 <sup>h</sup> 34'10	5 <sup>h</sup> 15'	10 <sup>h</sup> 29'	6 <sup>h</sup> 45'	26 <sup>h</sup> 47'	10 <sup>h</sup> 28'	15 <sup>h</sup> 53'	13 <sup>h</sup> 34'	1 <sup>h</sup> 22'	1 <sup>h</sup> 35'	9 <sup>h</sup> 7'	10 <sup>h</sup> 21'	11 <sup>h</sup> 3'	28 <sup>h</sup> 48'
W 21	11 54 46	0 <sup>h</sup> 33'44	19 <sup>h</sup> 49'	12 <sup>h</sup> 24'	7 <sup>h</sup> 59'	26 <sup>h</sup> 58'	10 <sup>h</sup> 35'	15 <sup>h</sup> 51'	13 <sup>h</sup> 34'	1 <sup>h</sup> 23'	1 <sup>h</sup> 34'	9 <sup>h</sup> 3'	10 <sup>h</sup> 18'	11 <sup>h</sup> 10'	28 <sup>h</sup> 51'
T 22	11 58 43	1 <sup>h</sup> 33'17	3 <sup>h</sup> 14'	14 <sup>h</sup> 18'	9 <sup>h</sup> 13'	27 <sup>h</sup> 8'	10 <sup>h</sup> 42'	15 <sup>h</sup> 48'	13 <sup>h</sup> 33'	1 <sup>h</sup> 23'	1 <sup>h</sup> 32'	9 <sup>h</sup> D 1	10 <sup>h</sup> 14'	11 <sup>h</sup> 17'	28 <sup>h</sup> 53'
F 23	12 2 39	2 <sup>h</sup> 32'48	16 <sup>h</sup> 50'	16 <sup>h</sup> 10'	10 <sup>h</sup> 27'	27 <sup>h</sup> 17'	10 <sup>h</sup> 49'	15 <sup>h</sup> 46'	13 <sup>h</sup> 33'	1 <sup>h</sup> 24'	1 <sup>h</sup> 31'	9 <sup>h</sup> 1'	10 <sup>h</sup> 11'	11 <sup>h</sup> 23'	28 <sup>h</sup> 56'
S 24	12 6 36	3 <sup>h</sup> 32'17	29 <sup>h</sup> 41'	17 <sup>h</sup> 59'	11 <sup>h</sup> 42'	27 <sup>h</sup> 26'	10 <sup>h</sup> 55'	15 <sup>h</sup> 43'	13 <sup>h</sup> 33'	1 <sup>h</sup> 24'	1 <sup>h</sup> 30'	9 <sup>h</sup> R 2	10 <sup>h</sup> 8'	11 <sup>h</sup> 30'	28 <sup>h</sup> 59'
S 25	12 10 32	4 <sup>h</sup> 31'45	12 <sup>h</sup> 310	19 <sup>h</sup> 46'	12 <sup>h</sup> 56'	27 <sup>h</sup> 34'	11 <sup>h</sup> 1'	15 <sup>h</sup> 40'	13 <sup>h</sup> 33'	1 <sup>h</sup> 24'	1 <sup>h</sup> 28'	9 <sup>h</sup> 2'	10 <sup>h</sup> 5'	11 <sup>h</sup> 37'	29 <sup>h</sup> 2'
M 26	12 14 29	5 <sup>h</sup> 31'11	24 <sup>h</sup> 24'	21 <sup>h</sup> 28'	14 <sup>h</sup> 10'	27 <sup>h</sup> 42'	11 <sup>h</sup> 8'	15 <sup>h</sup> 37'	13 <sup>h</sup> 32'	1 <sup>h</sup> 24'	1 <sup>h</sup> 27'	9 <sup>h</sup> 0'	10 <sup>h</sup> 2'	11 <sup>h</sup> 44'	29 <sup>h</sup> 5'
T 27	12 18 25	6 <sup>h</sup> 30'35	6 <sup>h</sup> 25'	23 <sup>h</sup> 7'	15 <sup>h</sup> 24'	27 <sup>h</sup> 49'	11 <sup>h</sup> 14'	15 <sup>h</sup> 34'	13 <sup>h</sup> 32'	1 <sup>h</sup> 25'	1 <sup>h</sup> 25'	8 <sup>h</sup> 55'	9 <sup>h</sup> 58'	11 <sup>h</sup> 50'	29 <sup>h</sup> 8'
W 28	12 22 22	7 <sup>h</sup> 29'57	18 <sup>h</sup> 20'	24 <sup>h</sup> 42'	16 <sup>h</sup> 38'	27 <sup>h</sup> 55'	11 <sup>h</sup> 20'	15 <sup>h</sup> 31'	13 <sup>h</sup> 31'	1 <sup>h</sup> 25'	1 <sup>h</sup> 24'	8 <sup>h</sup> 49'	9 <sup>h</sup> 55'	11 <sup>h</sup> 57'	29 <sup>h</sup> 11'
T 29	12 26 19	8 <sup>h</sup> 29'17	0 <sup>h</sup> 11'	26 <sup>h</sup> 12'	17 <sup>h</sup> 52'	28 <sup>h</sup> 1'	11 <sup>h</sup> 25'	15 <sup>h</sup> 28'	13 <sup>h</sup> 31'	1 <sup>h</sup> 25'	1 <sup>h</sup> 22'	8 <sup>h</sup> 40'	9 <sup>h</sup> 52'	12 <sup>h</sup> 4'	29 <sup>h</sup> 14'
F 30	12 30 15	9 <sup>h</sup> 28'35	12 <sup>h</sup> 2'	27 <sup>h</sup> 37'	19 <sup>h</sup> 6'	28 <sup>h</sup> 6'	11 <sup>h</sup> 31'	15 <sup>h</sup> 25'	13 <sup>h</sup> 30'	1 <sup>h</sup> 25'	1 <sup>h</sup> 21'	8 <sup>h</sup> 29'	9 <sup>h</sup> 49'	12 <sup>h</sup> 11'	29 <sup>h</sup> 18'
S 31	12 34 12	10 <sup>h</sup> 27'51	23 <sup>h</sup> 155	28 <sup>h</sup> 57'	20 <sup>h</sup> 20'	28 <sup>h</sup> 10'	11 <sup>h</sup> 36'	15 <sup>h</sup> 22'	13 <sup>h</sup> 30'	1 <sup>h</sup> 25'	1 <sup>h</sup> 19'	8 <sup>h</sup> 17'	9 <sup>h</sup> 46'	12 <sup>h</sup> 17'	29 <sup>h</sup> 21'

Delta T = 53.89 sec.

APRIL 1984

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	12 38 8	11 <sup>h</sup> 27'06	5 <sup>h</sup> 52'	0 <sup>h</sup> 11'	21 <sup>h</sup> 34'	28 <sup>h</sup> 13'	11 <sup>h</sup> 42'	15 <sup>h</sup> R18	13 <sup>h</sup> R29	1 <sup>h</sup> 25'	1 <sup>h</sup> R17	8 <sup>h</sup> R 6	9 <sup>h</sup> II43	12 <sup>h</sup> 124	29 <sup>h</sup> 824
M 2	12 42 5	12 <sup>h</sup> 26'18	17 <sup>h</sup> 54'	1 <sup>h</sup> 19'	22 <sup>h</sup> 48'	28 <sup>h</sup> 16'	11 <sup>h</sup> 47'	15 <sup>h</sup> 15'	13 <sup>h</sup> 28'	1 <sup>h</sup> 25'	1 <sup>h</sup> 16'	7 <sup>h</sup> II56	9 <sup>h</sup> 39'	12 <sup>h</sup> 31'	29 <sup>h</sup> 28'
T 3	12 46 1	13 <sup>h</sup> 25'28	0 <sup>h</sup> 8'	2 <sup>h</sup> 21'	24 <sup>h</sup> 2'	28 <sup>h</sup> 19'	11 <sup>h</sup> 52'	15 <sup>h</sup> 12'	13 <sup>h</sup> 27'	1 <sup>h</sup> R25	1 <sup>h</sup> 14'	7 <sup>h</sup> 48'	9 <sup>h</sup> 36'	12 <sup>h</sup> 37'	29 <sup>h</sup> 31'
W 4	12 49 58	14 <sup>h</sup> 24'36	12 <sup>h</sup> 18'	3 <sup>h</sup> 16'	25 <sup>h</sup> 16'	28 <sup>h</sup> 20'	11 <sup>h</sup> 56'	15 <sup>h</sup> 8'	13 <sup>h</sup> 27'	1 <sup>h</sup> 25'	1 <sup>h</sup> 13'	7 <sup>h</sup> 42'	9 <sup>h</sup> 33'	12 <sup>h</sup> 44'	29 <sup>h</sup> 34'
T 5	12 53 54	15 <sup>h</sup> 23'42	24 <sup>h</sup> 44'	4 <sup>h</sup> 6'	26 <sup>h</sup> 30'	28 <sup>h</sup> 21'	12 <sup>h</sup> 1'	15 <sup>h</sup> 5'	13 <sup>h</sup> 26'	1 <sup>h</sup> 25'	1 <sup>h</sup> 11'	7 <sup>h</sup> 39'	9 <sup>h</sup> 30'	12 <sup>h</sup> 51'	29 <sup>h</sup> 38'
F 6	12 57 51	16 <sup>h</sup> 22'46	7 <sup>h</sup> II21	4 <sup>h</sup> 48'	27 <sup>h</sup> 44'	28 <sup>h</sup> R21	12 <sup>h</sup> 5'	15 <sup>h</sup> 1'	13 <sup>h</sup> 25'	1 <sup>h</sup> 25'	1 <sup>h</sup> 10'	7 <sup>h</sup> D38	9 <sup>h</sup> 27'	12 <sup>h</sup> 58'	29 <sup>h</sup> 41'
S 7	13 1 48	17 <sup>h</sup> 21'48	20 <sup>h</sup> 11'	5 <sup>h</sup> 24'	28 <sup>h</sup> 58'	28 <sup>h</sup> 20'	12 <sup>h</sup> 10'	14 <sup>h</sup> 57'	13 <sup>h</sup> 24'	1 <sup>h</sup> 25'	1 <sup>h</sup> 8'	7 <sup>h</sup> 39'	9 <sup>h</sup> 24'	13 <sup>h</sup> 4'	29 <sup>h</sup> 45'
S 8	13 5 44	18 <sup>h</sup> 20'47	3 <sup>h</sup> 59'	5 <sup>h</sup> 53'	0 <sup>h</sup> 12'	28 <sup>h</sup> 19'	12 <sup>h</sup> 14'	14 <sup>h</sup> 53'	13 <sup>h</sup> 23'	1 <sup>h</sup> 25'	1 <sup>h</sup> 6'	7 <sup>h</sup> 40'	9 <sup>h</sup> 20'	13 <sup>h</sup> 11'	29 <sup>h</sup> 48'
M 9	13 9 41	19 <sup>h</sup> 19'44	16 <sup>h</sup> 46'	6 <sup>h</sup> 15'	1 <sup>h</sup> 26'	28 <sup>h</sup> 16'	12 <sup>h</sup> 18'	14 <sup>h</sup> 50'	13 <sup>h</sup> 22'	1 <sup>h</sup> 25'	1 <sup>h</sup> 5'	7 <sup>h</sup> R41	9 <sup>h</sup> 17'	13 <sup>h</sup> 18'	29 <sup>h</sup> 52'
T 10	13 13 37	20 <sup>h</sup> 18'39	0 <sup>h</sup> 134	6 <sup>h</sup> 31'	2 <sup>h</sup> 40'	28 <sup>h</sup> 13'	12 <sup>h</sup> 21'	14 <sup>h</sup> 46'	13 <sup>h</sup> 21'	1 <sup>h</sup> 25'	1 <sup>h</sup> 3'	7 <sup>h</sup> 40'	9 <sup>h</sup> 14'	13 <sup>h</sup> 24'	29 <sup>h</sup> 56'
W 11	13 17 34	21 <sup>h</sup> 17'31	14 <sup>h</sup> 45'	6 <sup>h</sup> 40'	3 <sup>h</sup> 54'	28 <sup>h</sup> 10'	12 <sup>h</sup> 25'	14 <sup>h</sup> 42'	13 <sup>h</sup> 19'	1 <sup>h</sup> 24'	1 <sup>h</sup> 1'	7 <sup>h</sup> 38'	9 <sup>h</sup> 11'	13 <sup>h</sup> 31'	29 <sup>h</sup> 59'
T 12	13 21 30	22 <sup>h</sup> 16'21	29 <sup>h</sup> 17'	6 <sup>h</sup> R42	5 <sup>h</sup> 7'	28 <sup>h</sup> 5'	12 <sup>h</sup> 28'	14 <sup>h</sup> 38'	13 <sup>h</sup> 18'	1 <sup>h</sup> 24'	1 <sup>h</sup> 0'	7 <sup>h</sup> 34'	9 <sup>h</sup> 8'	13 <sup>h</sup> 38'	0 <sup>h</sup> II 3
F 13	13 25 27	23 <sup>h</sup> 15'09	14 <sup>h</sup> 19'	5 <sup>h</sup> 38'	6 <sup>h</sup> 21'	28 <sup>h</sup> 0'	12 <sup>h</sup> 31'	14 <sup>h</sup> 34'	13 <sup>h</sup> 17'	1 <sup>h</sup> 24'	0 <sup>h</sup> 58'	7 <sup>h</sup> 28'	9 <sup>h</sup> 4'	13 <sup>h</sup> 45'	0 <sup>h</sup> 7
S 14	13 29 23	24 <sup>h</sup> 13'55	29 <sup>h</sup> 4'	6 <sup>h</sup> 27'	7 <sup>h</sup> 35'	27 <sup>h</sup> 54'	12 <sup>h</sup> 34'	14 <sup>h</sup> 30'	13 <sup>h</sup> 16'	1 <sup>h</sup> 23'	0 <sup>h</sup> 56'	7 <sup>h</sup> 22'	9 <sup>h</sup> 1'	13 <sup>h</sup> 51'	0 <sup>h</sup> 11
S 15	13 33 20	25 <sup>h</sup> 12'38	14 <sup>h</sup> 45'	6 <sup>h</sup> 12'	8 <sup>h</sup> 49'	27 <sup>h</sup> 47'	12 <sup>h</sup> 37'	14 <sup>h</sup> 26'	13 <sup>h</sup> 14'	1 <sup>h</sup> 23'	0 <sup>h</sup> 55'	7 <sup>h</sup> 16'	8 <sup>h</sup> 58'	13 <sup>h</sup> 58'	0 <sup>h</sup> 14
M 16	13 37 17	26 <sup>h</sup> 11'19	28 <sup>h</sup> 58'	5 <sup>h</sup> 50'	10 <sup>h</sup> 3'	27 <sup>h</sup> 40'	12 <sup>h</sup> 40'	14 <sup>h</sup> 21'	13 <sup>h</sup> 13'	1 <sup>h</sup> 23'	0 <sup>h</sup> 53'	7 <sup>h</sup> 10'	8 <sup>h</sup> 55'	14 <sup>h</sup> 5'	0 <sup>h</sup> 18
T 17	13 41 13	27 <sup>h</sup> 9'59	13 <sup>h</sup> 135	5 <sup>h</sup> 24'	11 <sup>h</sup> 17'	27 <sup>h</sup> 31'	12 <sup>h</sup> 42'	14 <sup>h</sup> 17'	13 <sup>h</sup> 11'	1 <sup>h</sup> 22'	0 <sup>h</sup> 51'	7 <sup>h</sup> 6'	8 <sup>h</sup> 52'	14 <sup>h</sup> 12'	0 <sup>h</sup> 22
W 18	13 45 10	28 <sup>h</sup> 8'36	27 <sup>h</sup> 50'	4 <sup>h</sup> 54'	12 <sup>h</sup> 31'	27 <sup>h</sup> 22'	12 <sup>h</sup> 45'	14 <sup>h</sup> 13'	13 <sup>h</sup> 10'	1 <sup>h</sup> 22'	0 <sup>h</sup> 50'	7 <sup>h</sup> 4'	8 <sup>h</sup> 49'	14 <sup>h</sup> 18'	0 <sup>h</sup> 26
T 19	13 49 6	29 <sup>h</sup> 7'12	11 <sup>h</sup> 238	4 <sup>h</sup> 20'	13 <sup>h</sup> 45'	27 <sup>h</sup> 13'	12 <sup>h</sup> 47'	14 <sup>h</sup> 9'	13 <sup>h</sup> 9'	1 <sup>h</sup> 21'	0 <sup>h</sup> 48'	7 <sup>h</sup> D 4	8 <sup>h</sup> 45'	14 <sup>h</sup> 25'	0 <sup>h</sup> 30
F 20	13 53 3	0 <sup>h</sup> 8'546	25 <sup>h</sup> 0'	3 <sup>h</sup> 43'	14 <sup>h</sup> 59'	27 <sup>h</sup> 2'	12 <sup>h</sup> 49'	14 <sup>h</sup> 5'	13 <sup>h</sup> 7'	1 <sup>h</sup> 21'	0 <sup>h</sup> 46'	7 <sup>h</sup> 5'	8 <sup>h</sup> 42'	14 <sup>h</sup> 32'	0 <sup>h</sup> 34
S 21	13 56 59	1 <sup>h</sup> 4'19	7 <sup>h</sup> 357	3 <sup>h</sup> 4'	16 <sup>h</sup> 13'	26 <sup>h</sup> 51'	12 <sup>h</sup> 50'	14 <sup>h</sup> 0'	13 <sup>h</sup> 5'	1 <sup>h</sup> 20'	0 <sup>h</sup> 44'	7 <sup>h</sup> 7'	8 <sup>h</sup> 39'	14 <sup>h</sup> 38'	0 <sup>h</sup> 38
S 22	14 0 56	2 <sup>h</sup> 2'50	20 <sup>h</sup> 32'	2 <sup>h</sup> 23'	17 <sup>h</sup> 26'	26 <sup>h</sup> 39'	12 <sup>h</sup> 52'	13 <sup>h</sup> 56'	13 <sup>h</sup> 4'	1 <sup>h</sup> 19'	0 <sup>h</sup> 43'	7 <sup>h</sup> 8'	8 <sup>h</sup> 36'	14 <sup>h</sup> 45'	0 <sup>h</sup> 42
M 23	14 4 52	3 <sup>h</sup> 1'19	2 <sup>h</sup> 449	1 <sup>h</sup> 41'	18 <sup>h</sup> 40'	26 <sup>h</sup> 26'	12 <sup>h</sup> 53'	13 <sup>h</sup> 51'	13 <sup>h</sup> 2'	1 <sup>h</sup> 19'	0 <sup>h</sup> 41'	7 <sup>h</sup> R 9	8 <sup>h</sup> 33'	14 <sup>h</sup> 52'	0 <sup>h</sup> 46
T 24	14 8 49	3 <sup>h</sup> 59'46	14 <sup>h</sup> 53'	1 <sup>h</sup> 0'	19 <sup>h</sup> 54'	26 <sup>h</sup> 13'	12 <sup>h</sup> 55'	13 <sup>h</sup> 47'	13 <sup>h</sup> 0'	1 <sup>h</sup> 18'	0 <sup>h</sup> 39'	7 <sup>h</sup> 8'	8 <sup>h</sup> 29'	14 <sup>h</sup> 59'	0 <sup>h</sup> 50
W 25	14 12 46	4 <sup>h</sup> 58'12	26 <sup>h</sup> 49'	0 <sup>h</sup> 19'	21 <sup>h</sup> 8'	25 <sup>h</sup> 59'	12 <sup>h</sup> 56'	13 <sup>h</sup> 43'	12 <sup>h</sup> 59'	1 <sup>h</sup> 17'	0 <sup>h</sup> 38'	7 <sup>h</sup> 6'	8 <sup>h</sup> 26'	15 <sup>h</sup> 5'	0 <sup>h</sup> 54
T 26	14 16 42	5 <sup>h</sup> 56'37	8 <sup>h</sup> 141	29 <sup>h</sup> 140	22 <sup>h</sup> 22'	25 <sup>h</sup> 44'	12 <sup>h</sup> 56'	13 <sup>h</sup> 38'	12 <sup>h</sup> 57'	1 <sup>h</sup> 17'	0 <sup>h</sup> 36'	7 <sup>h</sup> 2'	8 <sup>h</sup> 23'	15 <sup>h</sup> 12'	0 <sup>h</sup> 59
F 27	14 20 39	6 <sup>h</sup> 54'59	20 <sup>h</sup> 33'	29 <sup>h</sup> 3'	23 <sup>h</sup> 36'	25 <sup>h</sup> 28'	12 <sup>h</sup> 57'	13 <sup>h</sup> 34'	12 <sup>h</sup> 55'	1 <sup>h</sup> 16'	0 <sup>h</sup> 34'	6 <sup>h</sup> 58'	8 <sup>h</sup> 20'	15 <sup>h</sup> 19'	1 <sup>h</sup> 3
S 28	14 24 35	7 <sup>h</sup> 53'20	2 <sup>h</sup> 128	28 <sup>h</sup> 29	24 <sup>h</sup> 50'	25 <sup>h</sup> 12'	12 <sup>h</sup> 57'	13 <sup>h</sup> 29'	12 <sup>h</sup> 53'	1 <sup>h</sup> 15'	0 <sup>h</sup> 33'	6 <sup>h</sup> 53'	8 <sup>h</sup> 17'	15 <sup>h</sup> 25'	1 <sup>h</sup> 7
S 29	14 28 32	8 <sup>h</sup> 51'39	14 <sup>h</sup> 30'	27 <sup>h</sup> 58'	26 <sup>h</sup> 3'	24 <sup>h</sup> 55'	12 <sup>h</sup> 58'	13 <sup>h</sup> 25'	12 <sup>h</sup> 51'	1 <sup>h</sup> 14'	0 <sup>h</sup> 31'	6 <sup>h</sup> 48'	8 <sup>h</sup> 14'	15 <sup>h</sup> 32'	1 <sup>h</sup> 11
M 30	14 32 28	9 <sup>h</sup> 49'57	26 <sup>h</sup> 140	27 <sup>h</sup> 131	27 <sup>h</sup> 17	24 <sup>h</sup> 138	12 <sup>h</sup> R58	13 <sup>h</sup> 120	12 <sup>h</sup> 249	1 <sup>h</sup> 214	0 <sup>h</sup> 129	6 <sup>h</sup> II43	8 <sup>h</sup> II10	15 <sup>h</sup> 139	1 <sup>h</sup> II15

# SWISS EPHEMERIS for the year 1984

MAY 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	14 36 25	10♈48'13	9♉1	27°R 8	28°Y31	24°R20	12°R58	13°R16	12°R47	1°R13	0°R28	6°R40	8♊7	15°K46	1♊20
W 2	14 40 21	11°46'27	21°32	26°Y49	29°45	24°M 2	12°S57	13°M11	12°K45	1°S12	0°M26	6°M38	8° 4	15°52	1°24
T 3	14 44 18	12°44'40	4♊15	26°34	0♈59	23°43	12°57	13° 6	12°43	1°11	0°24	6°D37	8° 1	15°59	1°28
F 4	14 48 15	13°42'50	17°10	26°24	2°13	23°24	12°56	13° 2	12°41	1°10	0°23	6°37	7°58	16° 6	1°32
S 5	14 52 11	14°40'59	0♉19	26°19	3°26	23° 4	12°55	12°57	12°39	1° 9	0°21	6°38	7°55	16°13	1°37
S 6	14 56 8	15°39'06	13°41	26°D19	4°40	22°44	12°54	12°53	12°37	1° 8	0°19	6°40	7°51	16°19	1°41
M 7	15 0 4	16°37'11	27°18	26°23	5°54	22°23	12°53	12°48	12°35	1° 7	0°18	6°41	7°48	16°26	1°45
T 8	15 4 1	17°35'15	11♊9	26°32	7° 8	22° 2	12°51	12°44	12°33	1° 6	0°16	6°R42	7°45	16°33	1°50
W 9	15 7 57	18°33'16	25°14	26°45	8°22	21°41	12°50	12°39	12°31	1° 5	0°15	6°42	7°42	16°39	1°54
T 10	15 11 54	19°31'15	9♊32	27° 4	9°35	21°20	12°48	12°35	12°29	1° 4	0°13	6°41	7°39	16°46	1°59
F 11	15 15 50	20°29'12	24° 0	27°26	10°49	20°59	12°46	12°30	12°26	1° 3	0°11	6°40	7°35	16°53	2° 3
S 12	15 19 47	21°27'07	8♊34	27°53	12° 3	20°37	12°44	12°26	12°24	1° 2	0°10	6°38	7°32	17° 0	2° 7
S 13	15 23 44	22°25'01	23° 8	28°24	13°17	20°15	12°41	12°22	12°22	1° 0	0° 8	6°36	7°29	17° 6	2°12
M14	15 27 40	23°22'53	7♊36	28°59	14°30	19°54	12°39	12°17	12°20	0°59	0° 7	6°35	7°26	17°13	2°16
T 15	15 31 37	24°20'44	21°53	29°38	15°44	19°32	12°36	12°13	12°17	0°58	0° 5	6°34	7°23	17°20	2°21
W16	15 35 33	25°18'33	5♊54	0♉21	16°58	19°10	12°33	12° 8	12°15	0°57	0° 4	6°D33	7°20	17°26	2°25
T 17	15 39 30	26°16'20	19°35	1° 7	18°11	18°49	12°30	12° 4	12°13	0°56	0° 2	6°33	7°16	17°33	2°30
F 18	15 43 26	27°14'07	2♈54	1°57	19°25	18°27	12°27	12° 0	12°10	0°54	0° 1	6°34	7°13	17°40	2°34
S 19	15 47 23	28°11'52	15°51	2°50	20°39	18° 6	12°23	11°55	12° 8	0°53	29°59	6°35	7°10	17°47	2°39
S 20	15 51 19	29° 9'36	28°29	3°47	21°53	17°45	12°20	11°51	12° 6	0°52	29°58	6°36	7° 7	17°53	2°43
M21	15 55 16	0♊7'19	10♊49	4°47	23° 6	17°24	12°16	11°47	12° 3	0°50	29°57	6°36	7° 4	18° 0	2°48
T 22	15 59 13	1° 5'00	22°56	5°50	24°20	17° 4	12°12	11°43	12° 1	0°49	29°55	6°37	7° 1	18° 7	2°52
W23	16 3 9	2° 2'41	4♊54	6°55	25°34	16°44	12° 8	11°39	11°58	0°48	29°54	6°R37	6°57	18°14	2°57
T 24	16 7 6	3° 0'20	16°47	8° 4	26°48	16°24	12° 4	11°35	11°56	0°46	29°52	6°37	6°54	18°20	3° 1
F 25	16 11 2	3°57'59	28°41	9°16	28° 1	16° 5	11°59	11°31	11°54	0°45	29°51	6°36	6°51	18°27	3° 6
S 26	16 14 59	4°55'37	10°Y39	10°30	29°15	15°46	11°55	11°27	11°51	0°44	29°50	6°36	6°48	18°34	3°10
S 27	16 18 55	5°53'13	22°45	11°48	0♊29	15°28	11°50	11°23	11°49	0°42	29°49	6°36	6°45	18°40	3°15
M28	16 22 52	6°50'49	5♉2	13° 8	1°42	15°10	11°45	11°19	11°46	0°41	29°47	6°D36	6°41	18°47	3°19
T 29	16 26 48	7°48'23	17°33	14°30	2°56	14°53	11°40	11°15	11°44	0°39	29°46	6°36	6°38	18°54	3°24
W30	16 30 45	8°45'57	0♊20	15°55	4°10	14°36	11°35	11°11	11°41	0°38	29°45	6°R36	6°35	19° 1	3°28
T 31	16 34 42	9♊43'30	13♊23	17♉23	5♊24	14°M20	11°S29	11°M 8	11°K39	0°S36	29°44	6°M36	6°M32	19°K 7	3°M33

Delta T = 53.99 sec.

JUNE 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	16 38 38	10♊41'01	26♊42	18♉54	6♊37	14°R 5	11°R24	11°R 4	11°R36	0°R35	29°R42	6°R36	6♊29	19°K14	3♊37
S 2	16 42 35	11°38'32	10♊15	20°27	7°51	13°M50	11°S18	11°M 0	11°K34	0°S33	29°41	6°M35	6°26	19°21	3°42
S 3	16 46 31	12°36'01	24° 1	22° 2	9° 5	13°37	11°12	10°57	11°31	0°32	29°40	6°35	6°22	19°27	3°46
M 4	16 50 28	13°33'29	7♊58	23°40	10°18	13°23	11° 7	10°53	11°29	0°30	29°39	6°34	6°19	19°34	3°51
T 5	16 54 24	14°30'56	22° 4	25°21	11°32	13°11	11° 1	10°50	11°26	0°29	29°38	6°33	6°16	19°41	3°55
W 6	16 58 21	15°28'22	6♊14	27° 4	12°46	12°59	10°54	10°47	11°24	0°27	29°37	6°33	6°13	19°48	3°59
T 7	17 2 17	16°25'46	20°28	28°49	13°59	12°49	10°48	10°43	11°21	0°26	29°36	6°D33	6°10	19°54	4° 4
F 8	17 6 14	17°23'10	4♊43	0♊37	15°13	12°39	10°42	10°40	11°19	0°24	29°35	6°33	6° 7	20° 1	4° 8
S 9	17 10 11	18°20'32	18°55	2°28	16°27	12°29	10°35	10°37	11°16	0°23	29°34	6°34	6° 3	20° 8	4°13
S 10	17 14 7	19°17'53	3♊3	4°21	17°41	12°21	10°29	10°34	11°14	0°21	29°33	6°35	6° 0	20°15	4°17
M11	17 18 4	20°15'13	17° 3	6°16	18°54	12°13	10°22	10°31	11°12	0°19	29°32	6°36	5°57	20°21	4°22
T 12	17 22 0	21°12'32	0♊54	8°14	20° 8	12° 7	10°15	10°28	11° 9	0°18	29°31	6°R36	5°54	20°28	4°26
W13	17 25 57	22° 9'51	14°31	10°14	21°22	12° 1	10° 8	10°25	11° 7	0°16	29°30	6°36	5°51	20°35	4°30
T 14	17 29 53	23° 7'08	27°54	12°15	22°35	11°55	10° 1	10°23	11° 4	0°15	29°29	6°36	5°47	20°41	4°35
F 15	17 33 50	24° 4'26	11♉1	14°19	23°49	11°51	9°54	10°20	11° 2	0°13	29°29	6°34	5°44	20°48	4°39
S 16	17 37 47	25° 1'42	23°51	16°25	25° 3	11°48	9°47	10°18	11° 0	0°11	29°28	6°31	5°41	20°55	4°43
S 17	17 41 43	25°58'58	6♊25	18°32	26°16	11°45	9°40	10°15	10°57	0°10	29°27	6°29	5°38	21° 2	4°48
M18	17 45 40	26°56'14	18°44	20°41	27°30	11°43	9°33	10°13	10°55	0° 8	29°26	6°26	5°35	21° 8	4°52
T 19	17 49 36	27°53'29	0♊51	22°50	28°44	11°42	9°25	10°10	10°53	0° 7	29°26	6°23	5°32	21°15	4°56
W20	17 53 33	28°50'44	12°49	25° 1	29°58	11°D42	9°18	10° 8	10°50	0° 5	29°25	6°21	5°28	21°22	5° 0
T 21	17 57 29	29°47'59	24°43	27°12	1♉11	11°43	9°11	10° 6	10°48	0° 3	29°25	6°D20	5°25	21°28	5° 5
F 22	18 1 26	0♉45'14	6°Y37	29°24	2°25	11°44	9° 3	10° 4	10°46	0° 2	29°24	6°20	5°22	21°35	5° 9
S 23	18 5 22	1°42'28	18°35	1♉35	3°39	11°46	8°56	10° 2	10°43	0° 0	29°23	6°21	5°19	21°42	5°13
S 24	18 9 19	2°39'43	0♉42	3°46	4°52	11°49	8°48	10° 0	10°41	29°K58	29°23	6°23	5°16	21°49	5°17
M25	18 13 15	3°36'57	13° 3	5°57	6° 6	11°53	8°40	9°58	10°39	29°57	29°22	6°24	5°13	21°55	5°21
T 26	18 17 12	4°34'11	25°41	8° 7	7°20	11°57	8°33	9°56	10°37	29°55	29°22	6°26	5° 9	22° 2	5°25
W27	18 21 9	5°31'25	8♊39	10°17	8°34	12° 3	8°25	9°55	10°34	29°54	29°21	6°R26	5° 6	22° 9	5°29
T 28	18 25 5	6°28'40	21°59	12°25	9°47	12° 9	8°17	9°53	10°32	29°52	29°21	6°25	5° 3	22°15	5°34
F 29	18 29 2	7°25'54	5♉39	14°31	11° 1	12°16	8°10	9°52	10°30	29°50	29°21	6°23	5° 0	22°22	5°38
S 30	18 32 58	8°23'08	19♉38	16♉37	12♉15	12°M23	8°S 2	9°M51	10°K28	29°K49	29°20	6°M19	4°M57	22°K29	5°M42

Delta T = 54.04 sec.

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# SWISS EPHEMERIS for the year 1984

JULY 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	18 36 55	9°20'21"	3°53'	18°40'	13°29'	12°32'	7°54'	9°49'	10°26'	29°47'	29°20'	6°14'	4°53'	22°36'	5°46'
M 2	18 40 51	10°17'35"	18°16'	20°42'	14°42'	12°41'	7°47'	9°48'	10°24'	29°46'	29°20'	6°11'	4°50'	22°42'	5°49'
T 3	18 44 48	11°14'48"	2°44'	22°42'	15°56'	12°51'	7°39'	9°47'	10°22'	29°44'	29°20'	6° 5'	4°47'	22°49'	5°53'
W 4	18 48 45	12°12'00"	17°11'	24°40'	17°10'	13° 1'	7°31'	9°46'	10°20'	29°42'	29°19'	6° 1'	4°44'	22°56'	5°57'
T 5	18 52 41	13° 9'13"	1°31'	26°37'	18°24'	13°12'	7°24'	9°45'	10°18'	29°41'	29°19'	5°59'	4°41'	23° 2'	6° 1'
F 6	18 56 38	14° 6'25"	15°43'	28°31'	19°37'	13°24'	7°16'	9°45'	10°16'	29°39'	29°19'	5°D59'	4°38'	23° 9'	6° 5'
S 7	19 0 34	15° 3'37"	29°44'	0°24'	20°51'	13°37'	7° 8'	9°44'	10°14'	29°38'	29°19'	6° 0'	4°34'	23°16'	6° 9'
S 8	19 4 31	16° 0'48"	13°33'	2°14'	22° 5'	13°50'	7° 1'	9°43'	10°12'	29°36'	29°19'	6° 1'	4°31'	23°23'	6°12'
M 9	19 8 27	16°58'00"	27°10'	4° 3'	23°19'	14° 4'	6°53'	9°43'	10°11'	29°35'	29°D19'	6° 2'	4°28'	23°29'	6°16'
T 10	19 12 24	17°55'11"	10°35'	5°49'	24°33'	14°18'	6°46'	9°43'	10° 9'	29°33'	29°19'	6°R 2'	4°25'	23°36'	6°20'
W 11	19 16 20	18°52'23"	23°48'	7°34'	25°46'	14°33'	6°39'	9°42'	10° 7'	29°32'	29°19'	6° 1'	4°22'	23°43'	6°24'
T 12	19 20 17	19°49'35"	6°39'	9°16'	27° 0'	14°49'	6°31'	9°42'	10° 5'	29°30'	29°19'	5°57'	4°19'	23°49'	6°27'
F 13	19 24 14	20°46'46"	19°38'	10°57'	28°14'	15° 5'	6°24'	9°D42'	10° 4'	29°29'	29°19'	5°52'	4°15'	23°56'	6°31'
S 14	19 28 10	21°43'58"	2°15'	12°35'	29°28'	15°22'	6°17'	9°42'	10° 2'	29°27'	29°19'	5°45'	4°12'	24° 3'	6°34'
S 15	19 32 7	22°41'11"	14°40'	14°12'	0°41'	15°39'	6°10'	9°42'	10° 0'	29°26'	29°19'	5°37'	4° 9'	24°10'	6°38'
M 16	19 36 3	23°38'24"	26°53'	15°46'	1°55'	15°57'	6° 3'	9°42'	9°59'	29°24'	29°20'	5°28'	4° 6'	24°16'	6°41'
T 17	19 40 0	24°35'37"	8°57'	17°19'	3° 9'	16°16'	5°56'	9°43'	9°57'	29°23'	29°20'	5°20'	4° 3'	24°23'	6°45'
W 18	19 43 56	25°32'51"	20°53'	18°50'	4°23'	16°35'	5°49'	9°43'	9°56'	29°21'	29°20'	5°13'	3°59'	24°30'	6°48'
T 19	19 47 53	26°30'05"	2°45'	20°18'	5°37'	16°54'	5°42'	9°44'	9°54'	29°20'	29°20'	5° 8'	3°56'	24°36'	6°51'
F 20	19 51 49	27°27'20"	14°37'	21°45'	6°50'	17°14'	5°35'	9°44'	9°53'	29°19'	29°21'	5° 5'	3°53'	24°43'	6°55'
S 21	19 55 46	28°24'36"	26°33'	23° 9'	8° 4'	17°35'	5°29'	9°45'	9°52'	29°17'	29°21'	5°D 4'	3°50'	24°50'	6°58'
S 22	19 59 43	29°21'53"	8°39'	24°32'	9°18'	17°56'	5°22'	9°46'	9°50'	29°16'	29°22'	5° 5'	3°47'	24°57'	7° 1'
M 23	20 3 39	0°19'10"	20°59'	25°52'	10°32'	18°18'	5°16'	9°47'	9°49'	29°15'	29°22'	5° 6'	3°44'	25° 3'	7° 4'
T 24	20 7 36	1°16'29"	3°38'	27°10'	11°46'	18°40'	5°10'	9°48'	9°48'	29°13'	29°23'	5°R 6'	3°40'	25°10'	7° 7'
W 25	20 11 32	2°13'48"	16°41'	28°26'	13° 0'	19° 2'	5° 4'	9°49'	9°47'	29°12'	29°23'	5° 6'	3°37'	25°17'	7°10'
T 26	20 15 29	3°11'08"	0°9'	29°40'	14°13'	19°25'	4°58'	9°50'	9°45'	29°11'	29°24'	5° 3'	3°34'	25°23'	7°13'
F 27	20 19 25	4° 8'30"	14° 4'	0°51'	15°27'	19°49'	4°52'	9°51'	9°44'	29° 9'	29°24'	4°58'	3°31'	25°30'	7°16'
S 28	20 23 22	5° 5'51"	28°23'	2° 0'	16°41'	20°13'	4°46'	9°53'	9°43'	29° 8'	29°25'	4°51'	3°28'	25°37'	7°19'
S 29	20 27 18	6° 3'14"	13°21'	3° 6'	17°55'	20°37'	4°40'	9°54'	9°42'	29° 7'	29°25'	4°43'	3°25'	25°44'	7°22'
M 30	20 31 15	7° 0'38"	27°50'	4°10'	19° 9'	21° 2'	4°35'	9°56'	9°41'	29° 6'	29°26'	4°33'	3°21'	25°50'	7°25'
T 31	20 35 12	7°58'02"	12°43'	5°11'	20°23'	21°27'	4°30'	9°57'	9°40'	29° 5'	29°27'	4°32'	3°18'	25°57'	7°28'

Delta T = 54.08 sec.

AUGUST 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	20 39 8	8°55'26"	27°31'	6° 9'	21°36'	21°53'	4°R24'	9°55'	9°R39'	29°R 3'	29°28'	4°R17'	3°15'	26°4'	7°31'
T 2	20 43 5	9°52'51"	12° 7'	7° 5'	22°50'	22°19'	4°21'	10° 1'	9°R39'	29°R 2'	29°28'	4°12'	3°12'	26°10'	7°33'
F 3	20 47 1	10°50'17"	26°26'	7°57'	24° 4'	22°46'	4°15'	10° 3'	9°38'	29° 1'	29°29'	4° 9'	3° 9'	26°17'	7°36'
S 4	20 50 58	11°47'44"	10°26'	8°46'	25°18'	23°12'	4°10'	10° 5'	9°37'	29° 0'	29°30'	4°D 8'	3° 5'	26°24'	7°38'
S 5	20 54 54	12°45'11"	24° 7'	9°32'	26°32'	23°40'	4° 5'	10° 7'	9°36'	28°59'	29°31'	4° 9'	3° 2'	26°31'	7°41'
M 6	20 58 51	13°42'39"	7°37'	10°14'	27°46'	24° 7'	4° 1'	10° 9'	9°36'	28°58'	29°32'	4°R 9'	2°59'	26°37'	7°43'
T 7	21 2 47	14°40'07"	20°37'	10°52'	29° 0'	24°35'	3°57'	10°12'	9°35'	28°57'	29°33'	4° 8'	2°56'	26°44'	7°46'
W 8	21 6 44	15°37'37"	3°31'	11°27'	0°13'	25° 4'	3°52'	10°14'	9°35'	28°56'	29°34'	4° 5'	2°53'	26°51'	7°48'
T 9	21 10 41	16°35'07"	16°13'	11°58'	1°27'	25°32'	3°49'	10°17'	9°34'	28°55'	29°35'	3°59'	2°50'	26°57'	7°51'
F 10	21 14 37	17°32'39"	28°45'	12°24'	2°41'	26° 1'	3°45'	10°19'	9°34'	28°54'	29°36'	3°50'	2°46'	27° 4'	7°53'
S 11	21 18 34	18°30'11"	11° 7'	12°46'	3°55'	26°31'	3°41'	10°22'	9°33'	28°53'	29°37'	3°39'	2°43'	27°11'	7°55'
S 12	21 22 30	19°27'44"	23°20'	13° 3'	5° 9'	27° 1'	3°38'	10°25'	9°33'	28°52'	29°38'	3°26'	2°40'	27°18'	7°57'
M 13	21 26 27	20°25'19"	5°25'	13°15'	6°22'	27°31'	3°35'	10°28'	9°33'	28°51'	29°39'	3°13'	2°37'	27°24'	7°59'
T 14	21 30 23	21°22'55"	17°23'	13°22'	7°36'	28° 1'	3°32'	10°31'	9°32'	28°51'	29°40'	3° 0'	2°34'	27°31'	8° 1'
W 15	21 34 20	22°20'32"	29°17'	13°R24'	8°50'	28°32'	3°29'	10°34'	9°32'	28°50'	29°41'	2°49'	2°31'	27°38'	8° 3'
T 16	21 38 16	23°18'10"	11° 7'	13°20'	10° 4'	29° 3'	3°26'	10°37'	9°32'	28°49'	29°43'	2°41'	2°27'	27°44'	8° 5'
F 17	21 42 13	24°15'50"	22°57'	13°10'	11°18'	29°34'	3°23'	10°40'	9°32'	28°48'	29°44'	2°35'	2°24'	27°51'	8° 7'
S 18	21 46 10	25°13'32"	4°52'	12°55'	12°31'	0° 5'	3°21'	10°43'	9°D32'	28°48'	29°45'	2°31'	2°21'	27°58'	8° 9'
S 19	21 50 6	26°11'15"	16°55'	12°35'	13°45'	0°37'	3°19'	10°47'	9°32'	28°47'	29°47'	2°30'	2°18'	28° 5'	8°10'
M 20	21 54 3	27° 8'59"	29°13'	12° 8'	14°59'	1°10'	3°17'	10°50'	9°32'	28°46'	29°48'	2°30'	2°15'	28°11'	8°12'
T 21	21 57 59	28° 6'46"	11°49'	11°37'	16°13'	1°42'	3°15'	10°54'	9°32'	28°46'	29°49'	2°30'	2°11'	28°18'	8°14'
W 22	22 1 56	29° 4'34"	24°49'	11° 0'	17°27'	2°15'	3°14'	10°57'	9°32'	28°45'	29°51'	2°28'	2° 8'	28°25'	8°15'
T 23	22 5 52	0° 2'24"	8°57'	10°18'	18°40'	2°48'	3°12'	11° 1'	9°33'	28°44'	29°52'	2°25'	2° 5'	28°31'	8°17'
F 24	22 9 49	1° 0'16"	22°14'	9°32'	19°54'	3°21'	3°11'	11° 5'	9°33'	28°44'	29°54'	2°19'	2° 2'	28°38'	8°18'
S 25	22 13 45	1°58'09"	6°40'	8°43'	21° 8'	3°55'	3°10'	11° 9'	9°33'	28°43'	29°55'	2°11'	1°59'	28°45'	8°20'
S 26	22 17 42	2°56'04"	21°30'	7°50'	22°22'	4°28'	3° 9'	11°13'	9°34'	28°43'	29°57'	2° 1'	1°56'	28°52'	8°21'
M 27	22 21 39	3°54'00"	6°47'	6°56'	23°36'	5° 2'	3° 8'	11°17'	9°34'	28°42'	29°58'	1°49'	1°52'	28°58'	8°22'
T 28	22 25 35	4°51'58"	21°49'	6° 0'	24°49'	5°37'	3° 8'	11°21'	9°34'	28°42'	0° 0'	1°39'	1°49'	29° 5'	8°23'
W 29	22 29 32	5°49'58"	6°57'	5° 5'	26° 3'	6°11'	3° 8'	11°25'	9°35'	28°42'	0° 1'	1°30'	1°46'	29°12'	8°24'
T 30	22 33 28	6°47'58"	21°51'	4°12'	27°17'	6°46'	3°D 8'	11°29'	9°36'	28°41'	0° 3'	1°23'	1°43'	29°18'	8°25'
F 31	22 37 25	7°46'00"	6°23'	3°21'	28°31'	7°21'	3° 8'	11°33'	9°36'	28°41'	0° 5'	1°19'	1°40'	29°25'	8°26'

Delta T = 54.13 sec.

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# SWISS EPHEMERIS for the year 1984

SEPTEMBER 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	22 41 21	8 <sup>m</sup> 44'04	20 <sup>m</sup> 32	2°R34	29 <sup>m</sup> 44	7 <sup>m</sup> 56	3 <sup>h</sup> 8	11 <sup>m</sup> 38	9 <sup>m</sup> 37	28°R41	0 <sup>m</sup> 6	1°R18	1 <sup>m</sup> 36	29 <sup>m</sup> 32	8 <sup>m</sup> 27
S 2	22 45 18	9°42'09	4 <sup>m</sup> 15	1 <sup>m</sup> 51	0 <sup>m</sup> 58	8°32	3°8	11°43	9°38	28 <sup>m</sup> 40	0°8	1 <sup>m</sup> 18	1°33	29°38	8°28
M 3	22 49 14	10°40'15	17°35	1°14	2°12	9°8	3°9	11°47	9°38	28°40	0°10	1°17	1°30	29°45	8°29
T 4	22 53 11	11°38'23	0 <sup>m</sup> 35	0°45	3°25	9°44	3°10	11°52	9°39	28°40	0°11	1°16	1°27	29°52	8°30
W 5	22 57 8	12°36'32	13°18	0°22	4°39	10°20	3°11	11°56	9°40	28°40	0°13	1°13	1°24	29°59	8°30
T 6	23 1 4	13°34'43	25°47	0°8	5°53	10°56	3°12	12°1	9°41	28°40	0°15	1°7	1°21	0 <sup>m</sup> 5	8°31
F 7	23 5 1	14°32'55	8 <sup>m</sup> 5	0°D 2	7°7	11°33	3°14	12°6	9°42	28°39	0°17	0°58	1°17	0°12	8°31
S 8	23 8 57	15°31'09	20°15	0°5	8°20	12°10	3°15	12°11	9°43	28°39	0°19	0°47	1°14	0°19	8°32
S 9	23 12 54	16°29'24	2 <sup>m</sup> 18	0°17	9°34	12°47	3°17	12°16	9°44	28°39	0°21	0°35	1°11	0°25	8°32
M10	23 16 50	17°27'41	14°16	0°38	10°47	13°24	3°19	12°21	9°45	28°D39	0°22	0°21	1°8	0°32	8°32
T 11	23 20 47	18°26'00	26°9	1°7	12°1	14°1	3°21	12°26	9°47	28°39	0°24	0°8	1°5	0°39	8°33
W12	23 24 43	19°24'21	8 <sup>m</sup> 1	1°46	13°15	14°39	3°24	12°31	9°48	28°39	0°26	29 <sup>m</sup> 57	1°2	0°46	8°33
T 13	23 28 40	20°22'43	19°51	2°32	14°28	15°17	3°26	12°37	9°49	28°39	0°28	29°48	0°58	0°52	8°33
F 14	23 32 37	21°21'08	1 <sup>m</sup> 42	3°27	15°42	15°55	3°29	12°42	9°50	28°40	0°30	29°42	0°55	0°59	8°R33
S 15	23 36 33	22°19'35	13°39	4°29	16°55	16°33	3°32	12°47	9°52	28°40	0°32	29°39	0°52	1°6	8°33
S 16	23 40 30	23°18'03	25°43	5°38	18°9	17°11	3°35	12°53	9°53	28°40	0°34	29°D37	0°49	1°12	8°33
M17	23 44 26	24°16'34	8 <sup>m</sup> 0	6°53	19°23	17°49	3°38	12°58	9°55	28°40	0°36	29°38	0°46	1°19	8°33
T 18	23 48 23	25°15'08	20°34	8°14	20°36	18°28	3°42	13°4	9°56	28°40	0°38	29°R38	0°42	1°26	8°33
W19	23 52 19	26°13'43	3 <sup>m</sup> 29	9°40	21°50	19°7	3°45	13°9	9°58	28°41	0°40	29°38	0°39	1°32	8°32
T 20	23 56 16	27°12'21	16°51	11°11	23°3	19°46	3°49	13°15	9°59	28°41	0°42	29°36	0°36	1°39	8°32
F 21	0 0 12	28°11'01	0 <sup>m</sup> 42	12°46	24°17	20°25	3°53	13°21	10°1	28°41	0°45	29°32	0°33	1°46	8°31
S 22	0 4 9	29°9'43	15°2	14°24	25°30	21°4	3°57	13°26	10°3	28°42	0°47	29°26	0°30	1°53	8°31
S 23	0 8 6	0 <sup>m</sup> 8'27	29°48	16°4	26°44	21°44	4°2	13°32	10°5	28°42	0°49	29°18	0°27	1°59	8°30
M24	0 12 2	1°7'13	14 <sup>m</sup> 55	17°47	27°57	22°24	4°6	13°38	10°6	28°43	0°51	29°9	0°23	2°6	8°30
T 25	0 15 59	2°6'02	0 <sup>m</sup> 12	19°32	29°11	23°3	4°11	13°44	10°8	28°43	0°53	29°1	0°20	2°13	8°29
W26	0 19 55	3°4'52	15°29	21°18	0 <sup>m</sup> 24	23°43	4°16	13°50	10°10	28°44	0°55	28°53	0°17	2°19	8°28
T 27	0 23 52	4°3'44	0 <sup>m</sup> 35	23°5	1°38	24°23	4°21	13°56	10°12	28°44	0°58	28°48	0°14	2°26	8°27
F 28	0 27 48	5°2'38	15°21	24°53	2°51	25°4	4°26	14°2	10°14	28°45	1°0	28°45	0°11	2°33	8°27
S 29	0 31 45	6°1'35	29°41	26°42	4°5	25°44	4°31	14°8	10°16	28°45	1°2	28°D44	0°8	2°39	8°26
S 30	0 35 41	7 <sup>m</sup> 0'32	13 <sup>m</sup> 34	28 <sup>m</sup> 31	5 <sup>m</sup> 18	26 <sup>m</sup> 25	4 <sup>h</sup> 37	14 <sup>m</sup> 14	10 <sup>m</sup> 18	28 <sup>m</sup> 46	1 <sup>m</sup> 4	28 <sup>m</sup> 45	0 <sup>m</sup> 4	2 <sup>m</sup> 46	8 <sup>m</sup> 25

Delta T = 54.17 sec.

OCTOBER 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	0 39 38	7 <sup>m</sup> 59'32	27 <sup>m</sup> 0	0 <sup>m</sup> 19	6 <sup>m</sup> 31	27 <sup>m</sup> 5	4 <sup>h</sup> 42	14 <sup>m</sup> 21	10 <sup>m</sup> 20	28 <sup>m</sup> 47	1 <sup>m</sup> 7	28 <sup>m</sup> 46	0 <sup>m</sup> 1	2 <sup>m</sup> 53	8°R23
T 2	0 43 35	8°58'34	10 <sup>m</sup> 2	2°8	7°45	27°46	4°48	14°27	10°23	28°47	1°9	28°R47	29 <sup>m</sup> 58	3°0	8 <sup>m</sup> 22
W 3	0 47 31	9°57'37	22°42	3°56	8°58	28°27	4°54	14°33	10°25	28°48	1°11	28°46	29°55	3°6	8°21
T 4	0 51 28	10°56'42	5 <sup>m</sup> 7	5°44	10°11	29°8	5°0	14°40	10°27	28°49	1°13	28°43	29°52	3°13	8°20
F 5	0 55 24	11°55'48	17°18	7°32	11°25	29°50	5°7	14°46	10°29	28°50	1°16	28°38	29°48	3°20	8°18
S 6	0 59 21	12°54'57	29°20	9°18	12°38	0 <sup>m</sup> 31	5°13	14°52	10°32	28°50	1°18	28°31	29°45	3°26	8°17
S 7	1 3 17	13°54'07	11 <sup>m</sup> 17	11°5	13°51	1°12	5°20	14°59	10°34	28°51	1°20	28°23	29°42	3°33	8°15
M 8	1 7 14	14°53'19	23°10	12°50	15°5	1°54	5°26	15°5	10°36	28°52	1°23	28°14	29°39	3°40	8°14
T 9	1 11 10	15°52'33	5 <sup>m</sup> 1	14°35	16°18	2°36	5°33	15°12	10°39	28°53	1°25	28°6	29°36	3°46	8°12
W10	1 15 7	16°51'49	16°53	16°19	17°31	3°18	5°40	15°18	10°41	28°54	1°27	27°59	29°33	3°53	8°11
T 11	1 19 3	17°51'07	28°46	18°3	18°44	4°0	5°48	15°25	10°44	28°55	1°30	27°54	29°29	4°0	8°9
F 12	1 23 0	18°50'27	10 <sup>m</sup> 44	19°46	19°58	4°42	5°55	15°32	10°47	28°56	1°32	27°50	29°26	4°7	8°7
S 13	1 26 57	19°49'50	22°47	21°28	21°11	5°24	6°2	15°38	10°49	28°57	1°34	27°D49	29°23	4°13	8°5
S 14	1 30 53	20°49'14	4 <sup>m</sup> 59	23°9	22°24	6°6	6°10	15°45	10°52	28°58	1°37	27°49	29°20	4°20	8°3
M15	1 34 50	21°48'41	17°22	24°50	23°37	6°48	6°18	15°52	10°54	28°59	1°39	27°50	29°17	4°27	8°1
T 16	1 38 46	22°48'11	0 <sup>m</sup> 26	26°30	24°50	7°31	6°26	15°59	10°57	29°1	1°42	27°52	29°13	4°33	7°59
W17	1 42 43	23°47'42	12°56	28°9	26°3	8°13	6°34	16°6	11°0	29°2	1°44	27°53	29°10	4°40	7°57
T 18	1 46 39	24°47'16	26°14	29°48	27°16	8°56	6°42	16°12	11°3	29°3	1°46	27°R53	29°7	4°47	7°55
F 19	1 50 36	25°46'52	9 <sup>m</sup> 55	1 <sup>m</sup> 26	28°29	9°39	6°50	16°19	11°6	29°4	1°49	27°53	29°4	4°53	7°53
S 20	1 54 32	26°46'31	24°2	3°3	29°42	10°22	6°59	16°26	11°8	29°5	1°51	27°50	29°1	5°0	7°51
S 21	1 58 29	27°46'11	8 <sup>m</sup> 33	4°40	0 <sup>m</sup> 56	11°5	7°7	16°33	11°11	29°7	1°54	27°47	28°58	5°7	7°49
M22	2 2 26	28°45'54	23°24	6°16	2°9	11°48	7°16	16°40	11°14	29°8	1°56	27°43	28°54	5°14	7°46
T 23	2 6 22	29°45'39	8 <sup>m</sup> 29	7°51	3°22	12°31	7°25	16°47	11°17	29°9	1°59	27°39	28°51	5°20	7°44
W24	2 10 19	0 <sup>m</sup> 45'26	23°38	9°26	4°35	13°14	7°34	16°54	11°20	29°11	2°1	27°35	28°48	5°27	7°41
T 25	2 14 15	1°45'16	8 <sup>m</sup> 41	11°1	5°47	13°58	7°43	17°1	11°23	29°12	2°3	27°33	28°45	5°34	7°39
F 26	2 18 12	2°45'07	23°30	12°35	7°0	14°41	7°52	17°8	11°26	29°14	2°6	27°D32	28°42	5°40	7°36
S 27	2 22 8	3°45'00	7 <sup>m</sup> 57	14°8	8°13	15°25	8°2	17°15	11°29	29°15	2°8	27°32	28°39	5°47	7°34
S 28	2 26 5	4°44'55	21°59	15°41	9°26	16°8	8°11	17°22	11°32	29°16	2°11	27°33	28°35	5°54	7°31
M29	2 30 1	5°44'51	5 <sup>m</sup> 34	17°13	10°39	16°52	8°21	17°29	11°36	29°18	2°13	27°35	28°32	6°0	7°29
T 30	2 33 58	6°44'50	18°42	18°45	11°52	17°36	8°30	17°36	11°39	29°20	2°16	27°36	28°29	6°7	7°26
W31	2 37 55	7 <sup>m</sup> 44'50	1 <sup>m</sup> 28	20 <sup>m</sup> 17	13 <sup>m</sup> 5	18 <sup>m</sup> 20	8 <sup>h</sup> 40	17 <sup>m</sup> 43	11 <sup>m</sup> 42	29 <sup>m</sup> 21	2 <sup>m</sup> 18	27 <sup>m</sup> 37	28 <sup>m</sup> 26	6 <sup>m</sup> 14	7 <sup>m</sup> 23

Delta T = 54.22 sec.

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# SWISS EPHEMERIS for the year 1984

NOVEMBER 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	2 41 51	8♍44'51	13♋54	21♍48	14♋17	19♋4	8♋50	17♍50	11♋45	29♋23	2♍20	27°R37	28♋23	6♍20	7°R20
F 2	2 45 48	9°44'54	26° 4	23°18	15°30	19°48	9° 0	17°58	11°48	29°24	2°23	27♋36	28°19	6°27	7♍17
S 3	2 49 44	10°44'59	8♋ 4	24°48	16°43	20°32	9°10	18° 5	11°52	29°26	2°25	27°35	28°16	6°34	7°15
S 4	2 53 41	11°45'05	19°58	26°18	17°56	21°16	9°21	18°12	11°55	29°28	2°28	27°32	28°13	6°41	7°12
M 5	2 57 37	12°45'13	1♍48	27°47	19° 8	22° 0	9°31	18°19	11°58	29°29	2°30	27°30	28°10	6°47	7° 9
T 6	3 1 34	13°45'22	13°40	29°15	20°21	22°45	9°41	18°26	12° 2	29°31	2°32	27°28	28° 7	6°54	7° 6
W 7	3 5 30	14°45'33	25°34	0♋43	21°33	23°29	9°52	18°33	12° 5	29°33	2°35	27°26	28° 4	7° 1	7° 3
T 8	3 9 27	15°45'46	7♋34	2°11	22°46	24°13	10° 3	18°41	12° 8	29°34	2°37	27°24	28° 0	7° 7	7° 0
F 9	3 13 24	16°46'01	19°42	3°38	23°58	24°58	10°13	18°48	12°12	29°36	2°40	27°24	27°57	7°14	6°57
S 10	3 17 20	17°46'17	1♍58	5° 4	25°11	25°43	10°24	18°55	12°15	29°38	2°42	27°D24	27°54	7°21	6°54
S 11	3 21 17	18°46'35	14°25	6°30	26°23	26°27	10°35	19° 2	12°19	29°40	2°44	27°24	27°51	7°27	6°50
M 12	3 25 13	19°46'55	27° 4	7°55	27°36	27°12	10°46	19° 9	12°22	29°42	2°47	27°25	27°48	7°34	6°47
T 13	3 29 10	20°47'17	9♋56	9°20	28°48	27°56	10°58	19°16	12°25	29°43	2°49	27°25	27°45	7°41	6°44
W 14	3 33 6	21°47'41	23° 2	10°43	0♋ 0	28°41	11° 9	19°24	12°29	29°45	2°51	27°26	27°41	7°47	6°41
T 15	3 37 3	22°48'07	6♋25	12° 6	1°13	29°26	11°20	19°31	12°32	29°47	2°54	27°27	27°38	7°54	6°38
F 16	3 40 59	23°48'35	20° 4	13°28	2°25	0♋11	11°32	19°38	12°36	29°49	2°56	27°R27	27°35	8° 1	6°34
S 17	3 44 56	24°49'04	4♍ 1	14°49	3°37	0°56	11°43	19°45	12°40	29°51	2°58	27°27	27°32	8° 8	6°31
S 18	3 48 53	25°49'35	18°16	16° 8	4°49	1°41	11°55	19°52	12°43	29°53	3° 0	27°27	27°29	8°14	6°28
M 19	3 52 49	26°50'08	2♋44	17°26	6° 1	2°26	12° 6	20° 0	12°47	29°55	3° 3	27°26	27°25	8°21	6°24
T 20	3 56 46	27°50'43	17°24	18°43	7°13	3°11	12°18	20° 7	12°50	29°57	3° 5	27°D26	27°22	8°28	6°21
W 21	4 0 42	28°51'20	2♍ 9	19°58	8°25	3°56	12°30	20°14	12°54	29°59	3° 7	27°27	27°19	8°34	6°18
T 22	4 4 39	29°51'58	1♋53	21°11	9°37	4°41	12°42	20°21	12°57	0♋ 1	3° 9	27°27	27°16	8°41	6°14
F 23	4 8 35	0♋52'38	1♋28	22°21	10°49	5°26	12°54	20°28	13° 1	0° 3	3°12	27°R27	27°13	8°48	6°11
S 24	4 12 32	1°53'19	15°49	23°30	12° 1	6°12	13° 6	20°35	13° 5	0° 5	3°14	27°27	27°10	8°54	6° 8
S 25	4 16 28	2°54'02	29°50	24°35	13°13	6°57	13°18	20°42	13° 8	0° 7	3°16	27°26	27° 6	9° 1	6° 4
M 26	4 20 25	3°54'46	13♋28	25°37	14°24	7°42	13°30	20°49	13°12	0° 9	3°18	27°25	27° 3	9° 8	6° 1
T 27	4 24 22	4°55'31	26°42	26°35	15°36	8°28	13°43	20°56	13°16	0°11	3°20	27°24	27° 0	9°14	5°58
W 28	4 28 18	5°56'17	9♋33	27°29	16°48	9°13	13°55	21° 3	13°19	0°13	3°23	27°23	26°57	9°21	5°54
T 29	4 32 15	6°57'04	22° 3	28°18	17°59	9°59	14° 8	21°10	13°23	0°15	3°25	27°23	26°54	9°28	5°51
F 30	4 36 11	7°57'52	4♋16	29° 1	19♋11	10♋44	14♋20	21♍17	13♋27	0♋18	3♍27	27°D22	26♋51	9♍35	5♍47

Delta T = 54.26 sec.

DECEMBER 1984

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 40 8	8♍58'41	16♋17	29♋38	20♋22	11♋30	14♋33	21♍24	13♋30	0♋20	3♍29	27♋22	26♋47	9♍41	5°R44
S 2	4 44 4	9°59'31	28°10	0♋ 9	21°33	12°15	14°45	21°31	13°34	0°22	3°31	27°23	26°44	9°48	5♍41
M 3	4 48 1	11° 0'22	10♍ 1	0°31	22°44	13° 1	14°58	21°38	13°38	0°24	3°33	27°24	26°41	9°55	5°37
T 4	4 51 57	12° 1'13	21°52	0°44	23°56	13°46	15°11	21°45	13°41	0°26	3°35	27°26	26°38	10° 1	5°34
W 5	4 55 54	13° 2'06	3♋50	0°R49	25° 7	14°32	15°24	21°52	13°45	0°28	3°37	27°27	26°35	10° 8	5°31
T 6	4 59 51	14° 2'59	15°56	0°42	26°18	15°18	15°37	21°59	13°49	0°31	3°39	27°28	26°31	10°15	5°27
F 7	5 3 47	15° 3'53	28°15	0°25	27°28	16° 3	15°49	22° 6	13°52	0°33	3°41	27°R28	26°28	10°21	5°24
S 8	5 7 44	16° 4'49	10♍46	29♋57	28°39	16°49	16° 2	22°13	13°56	0°35	3°43	27°28	26°25	10°28	5°21
S 9	5 11 40	17° 5'45	23°33	29°17	29°50	17°35	16°16	22°19	14° 0	0°37	3°45	27°26	26°22	10°35	5°17
M 10	5 15 37	18° 6'42	6♋34	28°26	1♋ 0	18°20	16°29	22°26	14° 3	0°39	3°47	27°24	26°19	10°41	5°14
T 11	5 19 33	19° 7'40	19°50	27°25	2°11	19° 6	16°42	22°33	14° 7	0°42	3°49	27°20	26°16	10°48	5°11
W 12	5 23 30	20° 8'40	3♋19	26°15	3°21	19°52	16°55	22°39	14°11	0°44	3°50	27°17	26°12	10°55	5° 8
T 13	5 27 27	21° 9'40	16°59	24°59	4°32	20°37	17° 8	22°46	14°14	0°46	3°52	27°14	26° 9	11° 1	5° 4
F 14	5 31 23	22°10'41	0♍49	23°37	5°42	21°23	17°22	22°53	14°18	0°48	3°54	27°11	26° 6	11° 8	5° 1
S 15	5 35 20	23°11'43	14°48	22°14	6°52	22° 9	17°35	22°59	14°22	0°51	3°56	27°10	26° 3	11°15	4°58
S 16	5 39 16	24°12'46	28°54	20°52	8° 2	22°55	17°48	23° 6	14°25	0°53	3°58	27°D 9	26° 0	11°21	4°55
M 17	5 43 13	25°13'51	13♋ 6	19°34	9°11	23°41	18° 2	23°12	14°29	0°55	3°59	27°10	25°57	11°28	4°52
T 18	5 47 9	26°14'56	27°21	18°22	10°21	24°26	18°15	23°19	14°32	0°57	4° 1	27°12	25°53	11°35	4°49
W 19	5 51 6	27°16'02	11♍38	17°18	11°31	25°12	18°29	23°25	14°36	1° 0	4° 3	27°13	25°50	11°42	4°45
T 20	5 55 2	28°17'09	25°53	16°24	12°40	25°58	18°42	23°31	14°40	1° 2	4° 4	27°R14	25°47	11°48	4°42
F 21	5 58 59	29°18'16	10♋ 2	15°40	13°49	26°44	18°56	23°38	14°43	1° 4	4° 6	27°13	25°44	11°55	4°39
S 22	6 2 56	0♋19'25	24° 2	15° 7	14°59	27°30	19° 9	23°44	14°47	1° 6	4° 7	27°11	25°41	12° 2	4°36
S 23	6 6 52	1°20'34	7♋48	14°44	16° 8	28°16	19°23	23°50	14°50	1° 9	4° 9	27° 7	25°37	12° 8	4°33
M 24	6 10 49	2°21'43	21°18	14°33	17°17	29° 1	19°37	23°56	14°54	1°11	4°11	27° 1	25°34	12°15	4°31
T 25	6 14 45	3°22'52	4♋28	14°D31	18°25	29°47	19°51	24° 2	14°58	1°13	4°12	26°55	25°31	12°22	4°28
W 26	6 18 42	4°24'02	17°19	14°38	19°34	0♋33	20° 4	24° 9	15° 1	1°16	4°13	26°48	25°28	12°28	4°25
T 27	6 22 38	5°25'12	29°51	14°55	20°42	1°19	20°18	24°15	15° 5	1°18	4°15	26°42	25°25	12°35	4°22
F 28	6 26 35	6°26'21	12♋ 6	15°19	21°50	2° 5	20°32	24°21	15° 8	1°20	4°16	26°38	25°22	12°42	4°19
S 29	6 30 31	7°27'31	24° 8	15°50	22°58	2°51	20°46	24°26	15°12	1°22	4°18	26°35	25°18	12°48	4°17
S 30	6 34 28	8°28'40	6♍ 1	16°27	24° 6	3°37	21° 0	24°32	15°15	1°25	4°19	26°D34	25°15	12°55	4°14
M 31	6 38 25	9♋29'50	17°V51	17♋10	25♋14	4♋23	21♋14	24♍38	15♋19	1♋27	4♍20	26♋34	25♋12	13♍ 2	4♍11

Delta T = 54.30 sec.

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