

SWISS EPHEMERIS for the year 1983

JANUARY 1983

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	6 40 19	9♂59'26	1♂33	29♂30	24♂3	17♂0	1♂11	2♂54	6♂56	27♂15	29♂14	4♂R16	3♂51	21♂31	23♂R10
S 2	6 44 16	11° 0'34	16°35	0♂22	25°18	17°47	1°22	2°58	6°59	27°17	29°15	4♂15	3°48	21°38	23♂8
M 3	6 48 12	12° 1'43	1♂19	1° 6	26°33	18°34	1°34	3° 2	7° 2	27°19	29°16	4°14	3°45	21°45	23° 6
T 4	6 52 9	13° 2'51	15°40	1°42	27°48	19°21	1°45	3° 6	7° 6	27°21	29°17	4°14	3°42	21°51	23° 5
W 5	6 56 5	14° 4'00	29°35	2°10	29° 4	20° 8	1°57	3°10	7° 9	27°24	29°18	4°13	3°39	21°58	23° 3
T 6	7 0 2	15° 5'09	13♂3	2°28	0♂19	20°56	2° 8	3°14	7°12	27°26	29°19	4°D12	3°35	22° 5	23° 1
F 7	7 3 58	16° 6'18	26° 7	2°R34	1°34	21°43	2°20	3°18	7°15	27°28	29°20	4°13	3°32	22°11	23° 0
S 8	7 7 55	17° 7'28	8♂49	2°30	2°49	22°30	2°31	3°21	7°18	27°30	29°21	4°13	3°29	22°18	22°58
S 9	7 11 51	18° 8'37	21°14	2°14	4° 5	23°17	2°42	3°25	7°21	27°32	29°22	4°15	3°26	22°24	22°57
M10	7 15 48	19° 9'47	3♂25	1°46	5°20	24° 4	2°53	3°28	7°24	27°34	29°23	4°16	3°23	22°31	22°55
T11	7 19 45	20°10'57	15°26	1° 7	6°35	24°51	3° 4	3°32	7°27	27°37	29°24	4°17	3°20	22°38	22°54
W12	7 23 41	21°12'06	27°19	0°16	7°50	25°38	3°15	3°35	7°30	27°39	29°24	4°18	3°16	22°44	22°53
T13	7 27 38	22°13'15	9♂9	29♂16	9° 5	26°26	3°26	3°38	7°33	27°41	29°25	4°R18	3°13	22°51	22°51
F14	7 31 34	23°14'24	20°56	28° 8	10°20	27°13	3°37	3°41	7°36	27°43	29°26	4°17	3°10	22°58	22°50
S15	7 35 31	24°15'33	2♂44	26°54	11°35	28° 0	3°47	3°44	7°39	27°45	29°26	4°15	3° 7	23° 4	22°49
S16	7 39 27	25°16'41	14°35	25°37	12°51	28°47	3°58	3°47	7°41	27°47	29°27	4°12	3° 4	23°11	22°48
M17	7 43 24	26°17'49	26°29	24°18	14° 6	29°34	4° 8	3°50	7°44	27°49	29°28	4° 9	3° 1	23°18	22°47
T18	7 47 20	27°18'55	8♂30	23° 0	15°21	0♂21	4°19	3°52	7°47	27°51	29°28	4° 5	2°57	23°24	22°46
W19	7 51 17	28°20'01	20°41	21°46	16°36	1° 8	4°29	3°55	7°50	27°53	29°29	4° 1	2°54	23°31	22°45
T20	7 55 14	29°21'07	3♂3	20°38	17°51	1°55	4°39	3°57	7°52	27°55	29°29	3°57	2°51	23°38	22°44
F21	7 59 10	0♂22'11	15°40	19°36	19° 6	2°43	4°49	4° 0	7°55	27°57	29°29	3°55	2°48	23°44	22°44
S22	8 3 7	1°23'14	28°35	18°43	20°21	3°30	4°59	4° 2	7°57	27°59	29°30	3°D54	2°45	23°51	22°43
S23	8 7 3	2°24'17	11♂52	17°58	21°36	4°17	5° 9	4° 4	8° 0	28° 1	29°30	3°54	2°41	23°58	22°42
M24	8 11 0	3°25'18	25°33	17°22	22°51	5° 4	5°19	4° 6	8° 3	28° 3	29°31	3°56	2°38	24° 4	22°42
T25	8 14 56	4°26'19	9♂39	16°56	24° 6	5°51	5°29	4° 8	8° 5	28° 5	29°31	3°57	2°35	24°11	22°41
W26	8 18 53	5°27'18	24°10	16°39	25°21	6°38	5°38	4°10	8° 7	28° 7	29°31	3°59	2°32	24°18	22°41
T27	8 22 49	6°28'17	9♂3	16°30	26°36	7°25	5°48	4°12	8°10	28° 9	29°31	3°R59	2°29	24°24	22°41
F28	8 26 46	7°29'14	24°11	16°D29	27°51	8°12	5°57	4°14	8°12	28°11	29°31	3°57	2°26	24°31	22°40
S29	8 30 43	8°30'11	9♂26	16°37	29° 5	8°59	6° 7	4°15	8°14	28°13	29°32	3°54	2°22	24°38	22°40
S30	8 34 39	9°31'06	24°37	16°51	0♂20	9°46	6°16	4°17	8°17	28°14	29°32	3°50	2°19	24°44	22°40
M31	8 38 36	10♂32'01	9♂35	17♂12	1♂35	10♂33	6♂25	4♂18	8♂19	28♂16	29♂32	3♂54	2♂16	24♂51	22♂40

Delta T = 52.96 sec.

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 42 32	11♂32'54	24♂11	17♂39	2♂50	11♂20	6♂34	4♂19	8♂21	28♂18	29°R32	3°R38	2♂13	24♂58	22°D40
W 2	8 46 29	12°33'47	8♂19	18°11	4° 5	12° 7	6°42	4°20	8°23	28°20	29♂32	3♂33	2°10	25° 4	22♂40
T 3	8 50 25	13°34'39	21°58	18°49	5°19	12°54	6°51	4°21	8°25	28°22	29°32	3°29	2° 7	25°11	22°40
F 4	8 54 22	14°35'30	5♂8	19°31	6°34	13°41	7° 0	4°22	8°27	28°23	29°32	3°27	2° 3	25°18	22°40
S 5	8 58 18	15°36'21	17°53	20°17	7°49	14°27	7° 8	4°23	8°29	28°25	29°32	3°D26	2° 0	25°24	22°41
S 6	9 2 15	16°37'10	0♂16	21° 7	9° 3	15°14	7°16	4°24	8°31	28°27	29°31	3°27	1°57	25°31	22°41
M 7	9 6 12	17°37'59	12°23	22° 0	10°18	16° 1	7°25	4°25	8°33	28°28	29°31	3°29	1°54	25°38	22°41
T 8	9 10 8	18°38'47	24°18	22°57	11°32	16°48	7°33	4°25	8°35	28°30	29°31	3°30	1°51	25°44	22°42
W 9	9 14 5	19°39'33	6♂7	23°57	12°47	17°35	7°40	4°26	8°37	28°31	29°31	3°R31	1°47	25°51	22°42
T10	9 18 1	20°40'19	17°53	24°59	14° 2	18°21	7°48	4°26	8°38	28°33	29°30	3°29	1°44	25°57	22°43
F11	9 21 58	21°41'03	29°40	26° 4	15°16	19° 8	7°56	4°26	8°40	28°35	29°30	3°26	1°41	26° 4	22°43
S12	9 25 54	22°41'46	11♂31	27°11	16°31	19°55	8° 3	4°R26	8°42	28°36	29°30	3°20	1°38	26°11	22°44
S13	9 29 51	23°42'28	23°28	28°20	17°45	20°42	8°11	4°26	8°43	28°38	29°29	3°12	1°35	26°17	22°45
M14	9 33 47	24°43'09	5♂32	29°31	18°59	21°28	8°18	4°26	8°45	28°39	29°29	3° 2	1°32	26°24	22°46
T15	9 37 44	25°43'47	17°45	0♂44	20°14	22°15	8°25	4°26	8°46	28°41	29°28	2°51	1°28	26°31	22°47
W16	9 41 41	26°44'25	0♂7	1°59	21°28	23° 1	8°32	4°26	8°48	28°42	29°28	2°41	1°25	26°37	22°48
T17	9 45 37	27°45'00	12°40	3°15	22°42	23°48	8°39	4°25	8°49	28°43	29°27	2°32	1°22	26°44	22°49
F18	9 49 34	28°45'34	25°26	4°33	23°57	24°35	8°45	4°25	8°50	28°45	29°27	2°25	1°19	26°51	22°50
S19	9 53 30	29°46'06	8♂24	5°52	25°11	25°21	8°52	4°24	8°52	28°46	29°26	2°20	1°16	26°57	22°51
S20	9 57 27	0♂46'37	21°39	7°12	26°25	26° 7	8°58	4°23	8°53	28°47	29°26	2°18	1°13	27° 4	22°52
M21	10 1 23	1°47'05	5♂12	8°34	27°39	26°54	9° 5	4°22	8°54	28°49	29°25	2°D18	1° 9	27°11	22°54
T22	10 5 20	2°47'32	19° 4	9°57	28°53	27°40	9°11	4°21	8°55	28°50	29°24	2°18	1° 6	27°17	22°55
W23	10 9 16	3°47'57	3♂17	11°22	0♂7	28°27	9°16	4°20	8°56	28°51	29°23	2°R19	1° 3	27°24	22°56
T24	10 13 13	4°48'20	17°49	12°47	1°21	29°13	9°22	4°19	8°57	28°52	29°23	2°18	1° 0	27°31	22°58
F25	10 17 10	5°48'41	2♂37	14°14	2°35	29°59	9°28	4°18	8°58	28°53	29°22	2°14	0°57	27°37	22°59
S26	10 21 6	6°49'00	17°36	15°42	3°49	0♂46	9°33	4°17	8°59	28°55	29°21	2° 9	0°53	27°44	23° 1
S27	10 25 3	7°49'17	2♂37	17°11	5° 3	1°32	9°38	4°15	9° 0	28°56	29°20	2° 0	0°50	27°51	23° 3
M28	10 28 59	8♂49'33	17♂30	18♂41	6♂17	2♂18	9♂44	4♂14	9♂1	28♂57	29♂19	1♂50	0♂47	27♂57	23♂4

Delta T = 53.03 sec.

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SWISS EPHEMERIS for the year 1983

MARCH 1983

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	10 32 56	9 ^h 49'47"	2 ^h 57'	20 ^h 12'	7 ^h 31'	3 ^h 4'	9 ^h 48'	4 ^h 12'	9 ^h 2'	28 ^h 58'	29 ^h 18'	1 ^h 39'	0 ^h 44'	28 ^h 34'	23 ^h 8'
W 2	10 36 52	10 ^h 49'59"	16 ^h 20'	21 ^h 44'	8 ^h 45'	3 ^h 50'	9 ^h 53'	4 ^h 10'	9 ^h 2'	28 ^h 59'	29 ^h 18'	1 ^h 39'	0 ^h 41'	28 ^h 11'	23 ^h 8'
T 3	10 40 49	11 ^h 50'09"	0 ^h 11'	23 ^h 18'	9 ^h 58'	4 ^h 36'	9 ^h 58'	4 ^h 8'	9 ^h 3'	29 ^h 0'	29 ^h 17'	1 ^h 21'	0 ^h 38'	28 ^h 17'	23 ^h 10'
F 4	10 44 45	12 ^h 50'18"	13 ^h 22'	24 ^h 52'	11 ^h 12'	5 ^h 22'	10 ^h 2'	4 ^h 7'	9 ^h 4'	29 ^h 1'	29 ^h 16'	1 ^h 15'	0 ^h 34'	28 ^h 24'	23 ^h 12'
S 5	10 48 42	13 ^h 50'25"	26 ^h 12'	26 ^h 28'	12 ^h 25'	6 ^h 8'	10 ^h 7'	4 ^h 5'	9 ^h 4'	29 ^h 2'	29 ^h 15'	1 ^h 11'	0 ^h 31'	28 ^h 31'	23 ^h 14'
S 6	10 52 39	14 ^h 50'31"	8 ^h 39'	28 ^h 4'	13 ^h 39'	6 ^h 54'	10 ^h 11'	4 ^h 2'	9 ^h 5'	29 ^h 3'	29 ^h 13'	1 ^h 10'	0 ^h 28'	28 ^h 37'	23 ^h 16'
M 7	10 56 35	15 ^h 50'36"	20 ^h 48'	29 ^h 42'	14 ^h 52'	7 ^h 40'	10 ^h 15'	4 ^h 0'	9 ^h 5'	29 ^h 3'	29 ^h 12'	1 ^h 10'	0 ^h 25'	28 ^h 44'	23 ^h 18'
T 8	11 0 32	16 ^h 50'38"	2 ^h 34'	1 ^h 21'	16 ^h 6'	8 ^h 26'	10 ^h 18'	3 ^h 58'	9 ^h 5'	29 ^h 4'	29 ^h 11'	1 ^h 10'	0 ^h 22'	28 ^h 51'	23 ^h 20'
W 9	11 4 28	17 ^h 50'39"	14 ^h 32'	3 ^h 1'	17 ^h 19'	9 ^h 12'	10 ^h 22'	3 ^h 56'	9 ^h 6'	29 ^h 5'	29 ^h 10'	1 ^h 9'	0 ^h 19'	28 ^h 57'	23 ^h 22'
T 10	11 8 25	18 ^h 50'39"	26 ^h 19'	4 ^h 42'	18 ^h 33'	9 ^h 58'	10 ^h 25'	3 ^h 53'	9 ^h 6'	29 ^h 6'	29 ^h 9'	1 ^h 6'	0 ^h 15'	29 ^h 4'	23 ^h 25'
F 11	11 12 21	19 ^h 50'37"	8 ^h 38'	6 ^h 24'	19 ^h 46'	10 ^h 44'	10 ^h 29'	3 ^h 50'	9 ^h 6'	29 ^h 6'	29 ^h 8'	1 ^h 1'	0 ^h 12'	29 ^h 11'	23 ^h 27'
S 12	11 16 18	20 ^h 50'33"	20 ^h 3'	8 ^h 7'	20 ^h 59'	11 ^h 29'	10 ^h 32'	3 ^h 48'	9 ^h 6'	29 ^h 7'	29 ^h 7'	0 ^h 53'	0 ^h 9'	29 ^h 17'	23 ^h 30'
S 13	11 20 14	21 ^h 50'27"	2 ^h 38'	9 ^h 52'	22 ^h 12'	12 ^h 15'	10 ^h 34'	3 ^h 45'	9 ^h 7'	29 ^h 8'	29 ^h 5'	0 ^h 42'	0 ^h 6'	29 ^h 24'	23 ^h 32'
M 14	11 24 11	22 ^h 50'19"	14 ^h 24'	11 ^h 37'	23 ^h 25'	13 ^h 1'	10 ^h 37'	3 ^h 42'	9 ^h 7'	29 ^h 8'	29 ^h 4'	0 ^h 29'	0 ^h 3'	29 ^h 31'	23 ^h 34'
T 15	11 28 8	23 ^h 50'09"	26 ^h 51'	13 ^h 24'	24 ^h 38'	13 ^h 46'	10 ^h 40'	3 ^h 39'	9 ^h 7'	29 ^h 9'	29 ^h 3'	0 ^h 15'	29 ^h 11'	29 ^h 37'	23 ^h 37'
W 16	11 32 4	24 ^h 49'58"	9 ^h 31'	15 ^h 12'	25 ^h 51'	14 ^h 32'	10 ^h 42'	3 ^h 36'	9 ^h 7'	29 ^h 10'	29 ^h 2'	0 ^h 1'	29 ^h 56'	29 ^h 44'	23 ^h 40'
T 17	11 36 1	25 ^h 49'44"	2 ^h 22'	17 ^h 1'	27 ^h 4'	15 ^h 18'	10 ^h 44'	3 ^h 33'	9 ^h 6'	29 ^h 10'	29 ^h 0'	29 ^h 11'	29 ^h 53'	29 ^h 51'	23 ^h 42'
F 18	11 39 57	26 ^h 49'28"	5 ^h 25'	18 ^h 51'	28 ^h 17'	16 ^h 3'	10 ^h 46'	3 ^h 30'	9 ^h 6'	29 ^h 11'	28 ^h 59'	29 ^h 39'	29 ^h 50'	29 ^h 57'	23 ^h 45'
S 19	11 43 54	27 ^h 49'10"	18 ^h 39'	20 ^h 43'	29 ^h 30'	16 ^h 49'	10 ^h 48'	3 ^h 27'	9 ^h 6'	29 ^h 11'	28 ^h 58'	29 ^h 32'	29 ^h 47'	0 ^h 38'	23 ^h 48'
S 20	11 47 50	28 ^h 48'50"	2 ^h 11'	22 ^h 36'	0 ^h 43'	17 ^h 34'	10 ^h 49'	3 ^h 24'	9 ^h 6'	29 ^h 11'	28 ^h 56'	29 ^h 28'	29 ^h 44'	0 ^h 11'	23 ^h 51'
M 21	11 51 47	29 ^h 48'28"	15 ^h 41'	24 ^h 30'	1 ^h 56'	18 ^h 19'	10 ^h 51'	3 ^h 20'	9 ^h 6'	29 ^h 12'	28 ^h 55'	29 ^h 26'	29 ^h 40'	0 ^h 17'	23 ^h 53'
T 22	11 55 43	0 ^h 48'03"	29 ^h 30'	26 ^h 25'	3 ^h 8'	19 ^h 5'	10 ^h 52'	3 ^h 17'	9 ^h 5'	29 ^h 12'	28 ^h 53'	29 ^h 26'	29 ^h 37'	0 ^h 24'	23 ^h 56'
W 23	11 59 40	1 ^h 47'36"	13 ^h 32'	28 ^h 21'	4 ^h 21'	19 ^h 50'	10 ^h 53'	3 ^h 13'	9 ^h 5'	29 ^h 13'	28 ^h 52'	29 ^h 26'	29 ^h 34'	0 ^h 31'	23 ^h 59'
T 24	12 3 36	2 ^h 47'07"	0 ^h 19'	5 ^h 33'	20 ^h 35'	10 ^h 54'	10 ^h 54'	3 ^h 10'	9 ^h 4'	29 ^h 13'	28 ^h 50'	29 ^h 24'	29 ^h 31'	0 ^h 37'	24 ^h 2'
F 25	12 7 33	3 ^h 46'35"	12 ^h 13'	2 ^h 17'	6 ^h 46'	21 ^h 20'	10 ^h 55'	3 ^h 6'	9 ^h 4'	29 ^h 13'	28 ^h 49'	29 ^h 21'	29 ^h 28'	0 ^h 44'	24 ^h 5'
S 26	12 11 30	4 ^h 46'01"	26 ^h 47'	4 ^h 17'	7 ^h 58'	22 ^h 5'	10 ^h 55'	3 ^h 2'	9 ^h 3'	29 ^h 13'	28 ^h 47'	29 ^h 14'	29 ^h 24'	0 ^h 51'	24 ^h 8'
S 27	12 15 26	5 ^h 45'25"	11 ^h 23'	6 ^h 18'	9 ^h 10'	22 ^h 50'	10 ^h 55'	2 ^h 59'	9 ^h 3'	29 ^h 14'	28 ^h 46'	29 ^h 5'	29 ^h 21'	0 ^h 57'	24 ^h 12'
M 28	12 19 23	6 ^h 44'47"	25 ^h 55'	8 ^h 19'	10 ^h 22'	23 ^h 35'	10 ^h 55'	2 ^h 55'	9 ^h 2'	29 ^h 14'	28 ^h 44'	28 ^h 54'	29 ^h 18'	1 ^h 4'	24 ^h 15'
T 29	12 23 19	7 ^h 44'06"	10 ^h 15'	10 ^h 21'	11 ^h 34'	24 ^h 20'	10 ^h 55'	2 ^h 51'	9 ^h 1'	29 ^h 14'	28 ^h 43'	28 ^h 42'	29 ^h 15'	1 ^h 11'	24 ^h 18'
W 30	12 27 16	8 ^h 43'23"	24 ^h 17'	12 ^h 24'	12 ^h 46'	25 ^h 5'	10 ^h 55'	2 ^h 47'	9 ^h 0'	29 ^h 14'	28 ^h 41'	28 ^h 30'	29 ^h 12'	1 ^h 17'	24 ^h 21'
T 31	12 31 12	9 ^h 42'39"	7 ^h 11'	14 ^h 27'	13 ^h 58'	25 ^h 50'	10 ^h 55'	2 ^h 43'	9 ^h 0'	29 ^h 14'	28 ^h 40'	28 ^h 21'	29 ^h 11'	1 ^h 24'	24 ^h 24'

Delta T = 53.10 sec.

APRIL 1983

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

SWISS EPHEMERIS for the year 1983

MAY 1983

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

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JUNE 1983

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	16 35 39	9° 11' 57	8° 24	17° 59	24° 34	10° 36	5° 33	28° 28	6° 59	28° 21	27° 4	25° 11	25° 52	8° 18	28° 35
T 2	16 39 35	10° 54' 46	20° 15	18° 29	25° 37	11° 18	5° 25	28° 25	6° 57	28° 20	27° 3	25° 9	25° 48	8° 24	28° 40
F 3	16 43 32	11° 52' 15	2° 8	19° 4	26° 39	12° 0	5° 17	28° 22	6° 54	28° 18	27° 2	25° 10	25° 45	8° 31	28° 44
S 4	16 47 28	12° 49' 43	14° 10	19° 43	27° 41	12° 41	5° 10	28° 20	6° 52	28° 17	27° 1	25° 10	25° 42	8° 38	28° 48
S 5	16 51 25	13° 47' 10	26° 24	20° 26	28° 43	13° 23	5° 2	28° 17	6° 49	28° 15	27° 0	25° 10	25° 39	8° 44	28° 52
M 6	16 55 22	14° 44' 37	8° 54	21° 13	29° 45	14° 5	4° 55	28° 15	6° 47	28° 13	26° 59	25° 9	25° 36	8° 51	28° 57
T 7	16 59 18	15° 42' 03	21° 44	22° 3	0° 46	14° 46	4° 47	28° 12	6° 44	28° 12	26° 58	25° 8	25° 33	8° 58	29° 1
W 8	17 3 15	16° 39' 28	4° 58	22° 57	1° 46	15° 28	4° 40	28° 10	6° 42	28° 10	26° 57	25° 7	25° 29	9° 4	29° 5
T 9	17 7 11	17° 36' 53	18° 35	23° 55	2° 47	16° 9	4° 33	28° 8	6° 40	28° 9	26° 56	25° 6	25° 26	9° 11	29° 9
F 10	17 11 8	18° 34' 17	2° 11	24° 56	3° 47	16° 50	4° 26	28° 6	6° 37	28° 7	26° 55	25° 5	25° 23	9° 18	29° 13
S 11	17 15 4	19° 31' 41	16° 55	26° 1	4° 47	17° 32	4° 18	28° 4	6° 35	28° 5	26° 54	25° 5	25° 20	9° 24	29° 17
S 12	17 19 1	20° 29' 03	1° 30	27° 8	5° 46	18° 13	4° 11	28° 2	6° 32	28° 4	26° 53	25° 4	25° 17	9° 31	29° 22
M 13	17 22 57	21° 26' 25	16° 15	28° 20	6° 45	18° 54	4° 4	28° 0	6° 30	28° 2	26° 53	25° 5	25° 13	9° 38	29° 26
T 14	17 26 54	22° 23' 46	1° 1	29° 34	7° 44	19° 36	3° 57	27° 58	6° 28	28° 1	26° 52	25° 5	25° 10	9° 45	29° 30
W 15	17 30 51	23° 21' 06	15° 42	0° 11	8° 42	20° 17	3° 50	27° 57	6° 25	27° 59	26° 51	25° 5	25° 7	9° 51	29° 34
T 16	17 34 47	24° 18' 26	0° 13	2° 13	9° 40	20° 58	3° 44	27° 55	6° 23	27° 57	26° 50	25° 5	25° 4	9° 58	29° 38
F 17	17 38 44	25° 15' 44	14° 30	3° 37	10° 37	21° 39	3° 37	27° 54	6° 21	27° 56	26° 50	25° 5	25° 1	10° 5	29° 42
S 18	17 42 40	26° 13' 01	28° 30	5° 4	11° 34	22° 20	3° 30	27° 52	6° 18	27° 54	26° 49	25° 5	24° 58	10° 11	29° 46
S 19	17 46 37	27° 10' 18	12° 12	6° 34	12° 30	23° 1	3° 24	27° 51	6° 16	27° 53	26° 48	25° 6	24° 54	10° 18	29° 50
M 20	17 50 33	28° 7' 33	25° 36	8° 7	13° 26	23° 42	3° 17	27° 50	6° 14	27° 51	26° 48	25° 6	24° 51	10° 25	29° 54
T 21	17 54 30	29° 4' 48	8° 14	9° 43	14° 22	24° 23	3° 11	27° 49	6° 12	27° 49	26° 47	25° 6	24° 48	10° 31	29° 58
W 22	17 58 26	0° 2' 02	21° 36	11° 23	15° 17	25° 4	3° 5	27° 48	6° 9	27° 48	26° 47	25° 7	24° 45	10° 38	0° 11
T 23	18 2 23	0° 59' 16	4° 14	13° 5	16° 11	25° 44	2° 59	27° 47	6° 7	27° 46	26° 46	25° 7	24° 42	10° 45	0° 6
F 24	18 6 20	1° 56' 29	16° 40	14° 50	17° 5	26° 25	2° 53	27° 46	6° 5	27° 45	26° 46	25° 7	24° 39	10° 51	0° 9
S 25	18 10 16	2° 53' 42	28° 55	16° 38	17° 58	27° 6	2° 47	27° 45	6° 3	27° 43	26° 45	25° 7	24° 35	10° 58	0° 13
S 26	18 14 13	3° 50' 55	11° 3	18° 29	18° 50	27° 47	2° 42	27° 45	6° 1	27° 41	26° 45	25° 7	24° 32	11° 5	0° 17
M 27	18 18 9	4° 48' 07	23° 0	20° 22	19° 42	28° 27	2° 36	27° 44	5° 59	27° 40	26° 44	25° 6	24° 29	11° 11	0° 21
T 28	18 22 6	5° 45' 19	4° 54	22° 18	20° 34	29° 8	2° 31	27° 44	5° 57	27° 38	26° 44	25° 5	24° 26	11° 18	0° 25
W 29	18 26 2	6° 42' 31	16° 44	24° 16	21° 24	29° 48	2° 26	27° 44	5° 55	27° 37	26° 44	25° 3	24° 23	11° 25	0° 28
T 30	18 29 59	7° 39' 42	28° 35	26° 17	22° 14	0° 29	2° 20	27° 43	5° 53	27° 35	26° 44	25° 2	24° 19	11° 32	0° 32

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SWISS EPHEMERIS for the year 1983

JULY 1983

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	18 33 56	8°36'54	10°29'	28°20'	23°04'	1°50'	2°R15	27°R43	5°R51	27°R33	26°R43	25°R 0	24°R16	11°R38	0°R36
S 2	18 37 52	9°34'06	22°30'	0°25'	23°52'	1°50'	2°R11	27°D43	5°R49	27°R32	26°R43	24°R59	24°13'	11°45'	0°39'
S 3	18 41 49	10°31'18	4°43'	2°31'	24°40'	2°30'	2° 6'	27°R43	5°47'	27°30'	26°43'	24°58'	24°10'	11°52'	0°43'
M 4	18 45 45	11°28'30	17°10'	4°38'	25°27'	3°10'	2° 2'	27°44'	5°45'	27°29'	26°43'	24°D58	24° 7'	11°58'	0°46'
T 5	18 49 42	12°25'42	29°57'	6°47'	26°13'	3°51'	1°57'	27°44'	5°43'	27°27'	26°43'	24°59'	24° 4'	12° 5'	0°50'
W 6	18 53 38	13°22'55	13° 7'	8°57'	26°59'	4°31'	1°53'	27°44'	5°41'	27°26'	26°43'	25° 0'	24° 0'	12°12'	0°53'
T 7	18 57 35	14°20'08	26°43'	11° 7'	27°43'	5°11'	1°49'	27°45'	5°40'	27°24'	26°D43	25° 1'	23°57'	12°18'	0°57'
F 8	19 1 31	15°17'21	10°14'5	13°17'	28°27'	5°51'	1°45'	27°45'	5°38'	27°22'	26°43'	25° 2'	23°54'	12°25'	1° 0'
S 9	19 5 28	16°14'35	25°12'	15°27'	29° 9'	6°32'	1°41'	27°46'	5°36'	27°21'	26°43'	25°R 3	23°51'	12°32'	1° 4'
S 10	19 9 25	17°11'49	10° 0'	17°37'	29°51'	7°12'	1°38'	27°47'	5°34'	27°19'	26°43'	25° 2'	23°48'	12°38'	1° 7'
M 11	19 13 21	18° 9'03	25° 2'	19°46'	0°31'	7°52'	1°34'	27°48'	5°33'	27°18'	26°43'	25° 1'	23°45'	12°45'	1°10'
T 12	19 17 18	19° 6'17	10° 9'	21°54'	1°11'	8°32'	1°31'	27°49'	5°31'	27°16'	26°43'	24°58'	23°41'	12°52'	1°14'
W 13	19 21 14	20° 3'32	25°12'	24° 1'	1°49'	9°12'	1°28'	27°50'	5°30'	27°15'	26°43'	24°55'	23°38'	12°59'	1°17'
T 14	19 25 11	21° 0'46	10° 2'	26° 7'	2°27'	9°52'	1°25'	27°51'	5°28'	27°14'	26°43'	24°51'	23°35'	13° 5'	1°20'
F 15	19 29 7	21°58'00	24°33'	28°12'	3° 3'	10°32'	1°23'	27°52'	5°27'	27°12'	26°44'	24°49'	23°32'	13°12'	1°23'
S 16	19 33 4	22°55'14	8°41'	0°16'	3°37'	11°12'	1°20'	27°54'	5°25'	27°11'	26°44'	24°47'	23°29'	13°19'	1°26'
S 17	19 37 0	23°52'29	22°24'	2°17'	4°11'	11°51'	1°18'	27°55'	5°24'	27° 9'	26°44'	24°D46	23°25'	13°25'	1°29'
M 18	19 40 57	24°49'43	5°14'2	4°18'	4°43'	12°31'	1°16'	27°57'	5°23'	27° 8'	26°45'	24°46'	23°22'	13°32'	1°32'
T 19	19 44 54	25°46'58	18°39'	6°16'	5°14'	13°11'	1°14'	27°58'	5°21'	27° 6'	26°45'	24°48'	23°19'	13°39'	1°35'
W 20	19 48 50	26°44'12	1°18'	8°13'	5°43'	13°51'	1°12'	28° 0'	5°20'	27° 5'	26°45'	24°49'	23°16'	13°45'	1°38'
T 21	19 52 47	27°41'27	13°41'	10° 8'	6°11'	14°30'	1°10'	28° 2'	5°19'	27° 4'	26°46'	24°51'	23°13'	13°52'	1°41'
F 22	19 56 43	28°38'43	25°53'	12° 2'	6°37'	15°10'	1° 9'	28° 4'	5°18'	27° 2'	26°46'	24°R51	23°10'	13°59'	1°44'
S 23	20 0 40	29°35'58	7°56'	13°53'	7° 2'	15°49'	1° 8'	28° 6'	5°17'	27° 1'	26°47'	24°50'	23° 6'	14° 5'	1°47'
S 24	20 4 36	0°33'15	19°53'	15°43'	7°25'	16°29'	1° 7'	28° 8'	5°16'	27° 0'	26°47'	24°48'	23° 3'	14°12'	1°49'
M 25	20 8 33	1°30'31	1°46'	17°31'	7°46'	17° 9'	1° 6'	28°10'	5°15'	26°59'	26°48'	24°43'	23° 0'	14°19'	1°52'
T 26	20 12 29	2°27'49	13°37'	19°18'	8° 5'	17°48'	1° 5'	28°13'	5°14'	26°57'	26°48'	24°38'	22°57'	14°25'	1°55'
W 27	20 16 26	3°25'07	25°28'	21° 2'	8°23'	18°27'	1° 5'	28°15'	5°13'	26°56'	26°49'	24°31'	22°54'	14°32'	1°57'
T 28	20 20 23	4°22'26	7°42'	22°45'	8°39'	19° 7'	1° 4'	28°18'	5°12'	26°55'	26°50'	24°24'	22°51'	14°39'	2° 0'
F 29	20 24 19	5°19'45	19°17'	24°26'	8°52'	19°46'	1°D 4'	28°20'	5°11'	26°54'	26°51'	24°17'	22°47'	14°46'	2° 2'
S 30	20 28 16	6°17'06	1°20'	26° 6'	9° 4'	20°26'	1° 4'	28°23'	5°10'	26°53'	26°51'	24°11'	22°44'	14°52'	2° 5'
S 31	20 32 12	7°14'27	13°34'	27°43'	9°13'	21°55'	1° 4'	28°26'	5° 9'	26°51'	26°52'	24°R 6	22°R41	14°59'	2° 7'

Delta T = 53.39 sec.

AUGUST 1983

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	20 36 9	8°11'50	26°40'	29°19'	9°21'	21°54'	1° 5'	28°29'	5°R 9	26°R50	26°R53	24°R 4	22°R38	15°R 6	2°R10
T 2	20 40 5	9° 9'13	8°43'	0°53'	9°26'	22°23'	1° 5'	28°32'	5°R 8	26°R49	26°R54	24°D 3	22°R35	15°12'	2°12'
W 3	20 44 2	10° 6'38	21°47'	2°26'	9°29'	23° 3'	1° 6'	28°35'	5° 7'	26°48'	26°55'	24°R 4	22°R31	15°19'	2°14'
T 4	20 47 58	11° 4'05	5°16'	3°56'	9°R30	23°42'	1° 7'	28°38'	5° 7'	26°47'	26°55'	24° 5'	22°R28	15°26'	2°16'
F 5	20 51 55	12° 1'32	19°11'	5°25'	9°28'	24°21'	1° 8'	28°41'	5° 6'	26°46'	26°56'	24°R 6	22°R25	15°32'	2°19'
S 6	20 55 52	12°59'01	3°33'	6°53'	9°24'	25° 0'	1°10'	28°44'	5° 6'	26°45'	26°57'	24° 5'	22°R22	15°39'	2°21'
S 7	20 59 48	13°56'30	18°19'	8°18'	9°18'	25°39'	1°11'	28°48'	5° 6'	26°44'	26°58'	24° 3'	22°R19	15°46'	2°23'
M 8	21 3 45	14°54'01	3°24'	9°42'	9° 9'	26°18'	1°13'	28°51'	5° 5'	26°43'	26°59'	23°59'	22°R16	15°53'	2°25'
T 9	21 7 41	15°51'33	18°40'	11° 4'	8°58'	26°57'	1°15'	28°55'	5° 5'	26°42'	27° 0'	23°53'	22°R12	15°59'	2°27'
W 10	21 11 38	16°49'06	3°15'	12°24'	8°45'	27°36'	1°17'	28°58'	5° 5'	26°41'	27° 2'	23°45'	22° 9'	16° 6'	2°28'
T 11	21 15 34	17°46'40	19° 0'	13°42'	8°29'	28°15'	1°19'	29° 2'	5° 4'	26°40'	27° 3'	23°37'	22° 6'	16°13'	2°30'
F 12	21 19 31	18°44'15	3°44'	14°58'	8°11'	28°54'	1°21'	29° 6'	5° 4'	26°40'	27° 4'	23°30'	22° 3'	16°19'	2°32'
S 13	21 23 27	19°41'51	18° 2'	16°12'	7°51'	29°33'	1°24'	29°10'	5° 4'	26°39'	27° 5'	23°24'	22° 0'	16°26'	2°34'
S 14	21 27 24	20°39'28	1°15'	17°24'	7°29'	0°11'	1°27'	29°14'	5°D 4	26°38'	27° 6'	23°20'	21°57'	16°33'	2°35'
M 15	21 31 21	21°37'05	15°12'	18°33'	7° 4'	0°50'	1°30'	29°18'	5° 4'	26°37'	27° 8'	23°19'	21°53'	16°39'	2°37'
T 16	21 35 17	22°34'44	28° 7'	19°41'	6°37'	1°29'	1°33'	29°22'	5° 4'	26°36'	27° 9'	23°D19	21°50'	16°46'	2°38'
W 17	21 39 14	23°32'24	10°40'	20°46'	6° 9'	2° 8'	1°36'	29°26'	5° 4'	26°36'	27°10'	23°19'	21°47'	16°53'	2°40'
T 18	21 43 10	24°30'05	22°57'	21°49'	5°39'	2°46'	1°39'	29°30'	5° 5'	26°35'	27°11'	23°R20	21°44'	16°59'	2°41'
F 19	21 47 7	25°27'46	5° 1'	22°49'	5° 7'	3°25'	1°43'	29°35'	5° 5'	26°34'	27°13'	23°19'	21°41'	17° 6'	2°43'
S 20	21 51 3	26°25'29	16°57'	23°46'	4°33'	4° 4'	1°47'	29°39'	5° 5'	26°34'	27°14'	23°16'	21°37'	17°13'	2°44'
S 21	21 55 0	27°23'14	28°48'	24°41'	3°59'	4°42'	1°51'	29°44'	5° 5'	26°33'	27°16'	23°11'	21°34'	17°20'	2°45'
M 22	21 58 56	28°20'59	10°R38	25°33'	3°23'	5°21'	1°55'	29°48'	5° 6'	26°33'	27°17'	23° 3'	21°31'	17°26'	2°46'
T 23	22 2 53	29°18'46	22°29'	26°21'	2°47'	5°59'	1°59'	29°53'	5° 6'	26°32'	27°19'	22°53'	21°28'	17°33'	2°47'
W 24	22 6 50	0°16'34	4°23'	27° 6'	2°10'	6°38'	2° 4'	29°58'	5° 7'	26°32'	27°20'	22°41'	21°25'	17°40'	2°48'
T 25	22 10 46	1°14'23	16°21'	27°48'	1°33'	7°16'	2° 8'	0°11'	5° 7'	26°31'	27°22'	22°29'	21°22'	17°46'	2°49'
F 26	22 14 43	2°12'14	28°25'	28°26'	0°55'	7°55'	2°13'	0° 7'	5° 8'	26°31'	27°23'	22°17'	21°18'	17°53'	2°50'
S 27	22 18 39	3°10'07	10°40'	29° 0'	0°18'	8°33'	2°18'	0°12'	5° 8'	26°30'	27°25'	22° 6'	21°15'	18° 0'	2°51'
S 28	22 22 36	4° 8'01	22°55'	29°29'	29°41'	9°11'	2°23'	0°17'	5° 9'	26°30'	27°26'	21°57'	21°12'	18° 6'	2°52'
M 29	22 26 32	5° 5'57	5°26'	29°54'	29° 5'	9°50'	2°28'	0°22'	5°10'	26°30'	27°28'	21°51'	21° 9'	18°13'	2°52'
T 30	22 30 29	6° 3'55	18°10'	0°15'	28°30'	10°28'	2°34'	0°27'	5°11'	26°29'	27°30'	21°48'	21° 6'	18°20'	2°53'
W 31	22 34 25	7°11'55	1°12'	0°13'	27°45'	11°12'	2°39'	0°11'	5°11'	26°29'	27°31'	21°R47	21°R 2	18°27'	2°54'

Delta T = 53.46 sec.

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SWISS EPHEMERIS for the year 1983

SEPTEMBER 1983

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	22 38 22	7 ^h 59'57"	14 ^h 34'	0 ^h 40'	27 ^h R23	11 ^h 045	2 ^h 45'	0 ^h 38'	5 ^h 12'	26 ^h R29	27 ^h 33'	21 ^h R47	20 ^h 59'	18 ^h 33'	2 ^h 54'
F 2	22 42 19	8 ^h 58'01"	28 ^h 19'	0 ^h R45	26 ^h 052	12 ^h 23	2 ^h 51'	0 ^h 43'	5 ^h 13'	26 ^h 28'	27 ^h 35'	21 ^h 47'	20 ^h 56'	18 ^h 40'	2 ^h 55'
S 3	22 46 15	9 ^h 56'06"	12 ^h 29'	0 ^h 43'	26 ^h 22	13 ^h 1	2 ^h 57'	0 ^h 49'	5 ^h 14'	26 ^h 28'	27 ^h 37'	21 ^h 45'	20 ^h 53'	18 ^h 47'	2 ^h 55'
S 4	22 50 12	10 ^h 54'14"	27 ^h 3	0 ^h 36'	25 ^h 54	13 ^h 39	3 ^h 3	0 ^h 54'	5 ^h 15'	26 ^h 28'	27 ^h 38'	21 ^h 42'	20 ^h 50'	18 ^h 53'	2 ^h 55'
M 5	22 54 8	11 ^h 52'24"	11 ^h 057	0 ^h 22'	25 ^h 28	14 ^h 17	3 ^h 9	0 ^h 59'	5 ^h 16'	26 ^h 28'	27 ^h 40'	21 ^h 36'	20 ^h 47'	19 ^h 0	2 ^h 56'
T 6	22 58 5	12 ^h 50'35"	27 ^h 5	0 ^h 2	25 ^h 4	14 ^h 55	3 ^h 16	1 ^h 5	5 ^h 17'	26 ^h 28'	27 ^h 42'	21 ^h 27'	20 ^h 43'	19 ^h 7	2 ^h 56'
W 7	23 2 1	13 ^h 48'48"	12 ^h 17	29 ^h 36	24 ^h 42	15 ^h 33	3 ^h 22	1 ^h 11	5 ^h 19'	26 ^h 28'	27 ^h 44'	21 ^h 17'	20 ^h 40'	19 ^h 13	2 ^h 56'
T 8	23 5 58	14 ^h 47'03"	27 ^h 22	29 ^h 3	24 ^h 23	16 ^h 11	3 ^h 29	1 ^h 16	5 ^h 20'	26 ^h D28	27 ^h 46'	21 ^h 5	20 ^h 37'	19 ^h 20	2 ^h 56'
F 9	23 9 54	15 ^h 45'20"	12 ^h 11	28 ^h 25	24 ^h 6	16 ^h 49	3 ^h 36	1 ^h 22	5 ^h 21'	26 ^h 28'	27 ^h 48'	20 ^h 55'	20 ^h 34'	19 ^h 27	2 ^h R56
S 10	23 13 51	16 ^h 43'38"	26 ^h 35	27 ^h 40	23 ^h 51	17 ^h 27	3 ^h 43	1 ^h 28	5 ^h 23'	26 ^h 28'	27 ^h 50'	20 ^h 46'	20 ^h 31'	19 ^h 34	2 ^h 56'
S 11	23 17 47	17 ^h 41'58"	10 ^h 30	26 ^h 50	23 ^h 38	18 ^h 5	3 ^h 50	1 ^h 34	5 ^h 24'	26 ^h 28'	27 ^h 52'	20 ^h 40'	20 ^h 28'	19 ^h 40	2 ^h 56'
M 12	23 21 44	18 ^h 40'19"	23 ^h 56	25 ^h 56	23 ^h 28	18 ^h 43	3 ^h 57	1 ^h 40	5 ^h 25'	26 ^h 28'	27 ^h 54'	20 ^h 36'	20 ^h 24'	19 ^h 47	2 ^h 56'
T 13	23 25 41	19 ^h 38'42"	6 ^h 24	24 ^h 58	23 ^h 21	19 ^h 21	4 ^h 5	1 ^h 46	5 ^h 27'	26 ^h 28'	27 ^h 56'	20 ^h 35'	20 ^h 21'	19 ^h 54	2 ^h 55'
W 14	23 29 37	20 ^h 37'07"	19 ^h 29	23 ^h 57	23 ^h 15	19 ^h 59	4 ^h 12	1 ^h 52	5 ^h 28'	26 ^h 28'	27 ^h 58'	20 ^h 35'	20 ^h 18'	20 ^h 0	2 ^h 55'
T 15	23 33 34	21 ^h 35'33"	1 ^h 345	22 ^h 55	23 ^h 12	20 ^h 37	4 ^h 20	1 ^h 58	5 ^h 30'	26 ^h 28'	28 ^h 0	20 ^h 34'	20 ^h 15'	20 ^h 7	2 ^h 55'
F 16	23 37 30	22 ^h 34'01"	13 ^h 47	21 ^h 53	23 ^h D12	21 ^h 14	4 ^h 28	2 ^h 4	5 ^h 32'	26 ^h 29	28 ^h 2	20 ^h 33'	20 ^h 12'	20 ^h 14	2 ^h 54
S 17	23 41 27	23 ^h 32'31"	25 ^h 41	20 ^h 53	23 ^h 14	21 ^h 52	4 ^h 36	2 ^h 10	5 ^h 33'	26 ^h 29	28 ^h 4	20 ^h 30'	20 ^h 8	20 ^h 21	2 ^h 54
S 18	23 45 23	24 ^h 31'02"	7 ^h 31	19 ^h 55	23 ^h 18	22 ^h 30	4 ^h 44	2 ^h 16	5 ^h 35'	26 ^h 29	28 ^h 6	20 ^h 24'	20 ^h 5	20 ^h 27	2 ^h 53
M 19	23 49 20	25 ^h 29'35"	19 ^h 21	19 ^h 2	23 ^h 24	23 ^h 7	4 ^h 52	2 ^h 22	5 ^h 37'	26 ^h 30	28 ^h 8	20 ^h 16'	20 ^h 2	20 ^h 34	2 ^h 53
T 20	23 53 16	26 ^h 28'09"	1 ^h 15	18 ^h 15	23 ^h 33	23 ^h 45	5 ^h 1	2 ^h 29	5 ^h 39'	26 ^h 30	28 ^h 10	20 ^h 4	19 ^h 59	20 ^h 41	2 ^h 52
W 21	23 57 13	27 ^h 26'45"	13 ^h 14	17 ^h 35	23 ^h 44	24 ^h 23	5 ^h 9	2 ^h 35	5 ^h 40'	26 ^h 30	28 ^h 12	19 ^h 51	19 ^h 56	20 ^h 47	2 ^h 51
T 22	0 1 10	28 ^h 25'24"	25 ^h 20	17 ^h 3	23 ^h 56	25 ^h 0	5 ^h 18	2 ^h 41	5 ^h 42'	26 ^h 31	28 ^h 14	19 ^h 38	19 ^h 53	20 ^h 54	2 ^h 50
F 23	0 5 6	29 ^h 24'04"	7 ^h 35	16 ^h 40	24 ^h 11	25 ^h 38	5 ^h 26	2 ^h 48	5 ^h 44'	26 ^h 31	28 ^h 17	19 ^h 24	19 ^h 49	21 ^h 1	2 ^h 49
S 24	0 9 3	0 ^h 22'46"	19 ^h 58	16 ^h 27	24 ^h 28	26 ^h 15	5 ^h 35	2 ^h 54	5 ^h 46'	26 ^h 32	28 ^h 19	19 ^h 12	19 ^h 46	21 ^h 7	2 ^h 48
S 25	0 12 59	1 ^h 21'30"	2 ^h 31	16 ^h D23	24 ^h 47	26 ^h 53	5 ^h 44	3 ^h 1	5 ^h 48'	26 ^h 32	28 ^h 21	19 ^h 2	19 ^h 43	21 ^h 14	2 ^h 47
M 26	0 16 56	2 ^h 20'17"	15 ^h 14	16 ^h 29	25 ^h 8	27 ^h 30	5 ^h 53	3 ^h 7	5 ^h 50'	26 ^h 33	28 ^h 23	18 ^h 56	19 ^h 40	21 ^h 21	2 ^h 46
T 27	0 20 52	3 ^h 19'05"	28 ^h 9	16 ^h 46	25 ^h 31	28 ^h 8	6 ^h 2	3 ^h 14	5 ^h 52'	26 ^h 33	28 ^h 25	18 ^h 52	19 ^h 37	21 ^h 28	2 ^h 45
W 28	0 24 49	4 ^h 17'56"	11 ^h 17	17 ^h 12	25 ^h 55	28 ^h 45	6 ^h 12	3 ^h 20	5 ^h 55'	26 ^h 34	28 ^h 28	18 ^h 50	19 ^h 34	21 ^h 34	2 ^h 44
T 29	0 28 45	5 ^h 16'50"	24 ^h 40	17 ^h 47	26 ^h 21	29 ^h 22	6 ^h 21	3 ^h 27	5 ^h 57'	26 ^h 35	28 ^h 30	18 ^h D50	19 ^h 30	21 ^h 41	2 ^h 43
F 30	0 32 42	6 ^h 15'45"	8 ^h 21	18 ^h 31	26 ^h 049	0 ^h 0	6 ^h 21	3 ^h 34	5 ^h 59'	26 ^h 35	28 ^h 32	18 ^h R50	19 ^h 27	21 ^h 48	2 ^h 41

Delta T = 53.53 sec.

OCTOBER 1983

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	0 36 39	7 ^h 14'43	22 ^h 21	19 ^h 24	27 ^h 018	0 ^h 37	6 ^h 40	3 ^h 40	6 ^h 1	26 ^h 36	28 ^h 34	18 ^h R49	19 ^h 24	21 ^h 54	2 ^h R40
S 2	0 40 35	8 ^h 13'44	6 ^h 039	20 ^h 24	27 ^h 49	1 ^h 14	6 ^h 50	3 ^h 47	6 ^h 4	26 ^h 37	28 ^h 37	18 ^h 46	19 ^h 21	22 ^h 1	2 ^h 38
M 3	0 44 32	9 ^h 12'46	21 ^h 14	21 ^h 31	28 ^h 21	1 ^h 52	7 ^h 0	3 ^h 54	6 ^h 6	26 ^h 38	28 ^h 39	18 ^h 41	19 ^h 18	22 ^h 8	2 ^h 37
T 4	0 48 28	10 ^h 11'51	6 ^h 11	22 ^h 45	28 ^h 55	2 ^h 29	7 ^h 10	4 ^h 1	6 ^h 9	26 ^h 39	28 ^h 41	18 ^h 33	19 ^h 14	22 ^h 15	2 ^h 35
W 5	0 52 25	11 ^h 10'58	20 ^h 54	24 ^h 4	29 ^h 30	3 ^h 6	7 ^h 20	4 ^h 8	6 ^h 11	26 ^h 39	28 ^h 44	18 ^h 24	19 ^h 11	22 ^h 21	2 ^h 34
T 6	0 56 21	12 ^h 10'07	5 ^h 44	25 ^h 28	0 ^h 7	3 ^h 43	7 ^h 30	4 ^h 14	6 ^h 14	26 ^h 40	28 ^h 46	18 ^h 13	19 ^h 8	22 ^h 28	2 ^h 32
F 7	1 0 18	13 ^h 9'18	20 ^h 22	26 ^h 55	0 ^h 45	4 ^h 20	7 ^h 40	4 ^h 21	6 ^h 16	26 ^h 41	28 ^h 48	18 ^h 4	19 ^h 5	22 ^h 35	2 ^h 30
S 8	1 4 14	14 ^h 8'31	4 ^h 40	28 ^h 27	1 ^h 23	4 ^h 57	7 ^h 51	4 ^h 28	6 ^h 19	26 ^h 42	28 ^h 51	17 ^h 55	19 ^h 2	22 ^h 41	2 ^h 29
S 9	1 8 11	15 ^h 7'47	18 ^h 34	0 ^h 1	2 ^h 4	5 ^h 34	8 ^h 1	4 ^h 35	6 ^h 21	26 ^h 43	28 ^h 53	17 ^h 49	18 ^h 59	22 ^h 48	2 ^h 27
M10	1 12 8	16 ^h 7'04	2 ^h 1	1 ^h 38	2 ^h 45	6 ^h 11	8 ^h 12	4 ^h 42	6 ^h 24	26 ^h 44	28 ^h 55	17 ^h 46	18 ^h 55	22 ^h 55	2 ^h 25
T 11	1 16 4	17 ^h 6'23	15 ^h 2	3 ^h 17	3 ^h 27	6 ^h 48	8 ^h 22	4 ^h 49	6 ^h 27	26 ^h 45	28 ^h 58	17 ^h D45	18 ^h 52	23 ^h 1	2 ^h 23
W12	1 20 1	18 ^h 5'44	27 ^h 40	4 ^h 57	4 ^h 10	7 ^h 25	8 ^h 33	4 ^h 56	6 ^h 29	26 ^h 46	29 ^h 0	17 ^h 45	18 ^h 49	23 ^h 8	2 ^h 21
T 13	1 23 57	19 ^h 5'06	9 ^h 35	6 ^h 38	4 ^h 55	8 ^h 2	8 ^h 44	5 ^h 3	6 ^h 32	26 ^h 47	29 ^h 3	17 ^h 46	18 ^h 46	23 ^h 15	2 ^h 19
F 14	1 27 54	20 ^h 4'31	22 ^h 3	8 ^h 21	5 ^h 40	8 ^h 39	8 ^h 55	5 ^h 10	6 ^h 35	26 ^h 48	29 ^h 5	17 ^h R46	18 ^h 43	23 ^h 22	2 ^h 17
S 15	1 31 50	21 ^h 3'57	3 ^h 58	10 ^h 4	6 ^h 26	9 ^h 16	9 ^h 6	5 ^h 17	6 ^h 38	26 ^h 50	29 ^h 7	17 ^h 45	18 ^h 40	23 ^h 28	2 ^h 14
S 16	1 35 47	22 ^h 3'25	15 ^h 49	11 ^h 47	7 ^h 14	9 ^h 52	9 ^h 17	5 ^h 24	6 ^h 41	26 ^h 51	29 ^h 10	17 ^h 42	18 ^h 36	23 ^h 35	2 ^h 12
M17	1 39 43	23 ^h 2'54	27 ^h 41	13 ^h 31	8 ^h 2	10 ^h 29	9 ^h 28	5 ^h 32	6 ^h 43	26 ^h 52	29 ^h 12	17 ^h 37	18 ^h 33	23 ^h 42	2 ^h 10
T 18	1 43 40	24 ^h 2'26	9 ^h 37	15 ^h 14	8 ^h 51	11 ^h 6	9 ^h 39	5 ^h 39	6 ^h 46	26 ^h 53	29 ^h 15	17 ^h 29	18 ^h 30	23 ^h 48	2 ^h 8
W19	1 47 37	25 ^h 1'59	21 ^h 52	16 ^h 58	9 ^h 40	11 ^h 43	9 ^h 50	5 ^h 46	6 ^h 49	26 ^h 54	29 ^h 17	17 ^h 20	18 ^h 27	23 ^h 55	2 ^h 5
T 20	1 51 33	26 ^h 1'34	3 ^h 57	18 ^h 41	10 ^h 31	12 ^h 19	10 ^h 2	5 ^h 53	6 ^h 52	26 ^h 56	29 ^h 19	17 ^h 10	18 ^h 24	24 ^h 2	2 ^h 3
F 21	1 55 30	27 ^h 1'11	16 ^h 24	20 ^h 24	11 ^h 22	12 ^h 56	10 ^h 13	6 ^h 0	6 ^h 55	26 ^h 57	29 ^h 22	17 ^h 1	18 ^h 20	24 ^h 9	2 ^h 0
S 22	1 59 26	28 ^h 0'50	29 ^h 3	22 ^h 7	12 ^h 14	13 ^h 32	10 ^h 25	6 ^h 7	6 ^h 58	26 ^h 58	29 ^h 24	16 ^h 52	18 ^h 17	24 ^h 15	1 ^h 58
S 23	2 3 23	29 ^h 0'31	11 ^h 54	23 ^h 49	13 ^h 7	14 ^h 9	10 ^h 36	6 ^h 15	7 ^h 1	27 ^h 0	29 ^h 27	16 ^h 46	18 ^h 14	24 ^h 22	1 ^h 55
M24	2 7 19	0 ^h 1 0'14	24 ^h 58	25 ^h 31	14 ^h 0	14 ^h 45	10 ^h 48	6 ^h 22	7 ^h 5	27 ^h 1	29 ^h 29	16 ^h 41	18 ^h 11	24 ^h 29	1 ^h 53
T 25	2 11 16	1 ^h 0'00	8 ^h 113	27 ^h 13	14 ^h 54	15 ^h 22	11 ^h 0	6 ^h 29	7 ^h 8	27 ^h 3	29 ^h 31	16 ^h 39	18 ^h 8	24 ^h 35	1 ^h 50
W26	2 15 12	1 ^h 59'47	21 ^h 38	28 ^h 54	15 ^h 49	15 ^h 58	11 ^h 12	6 ^h 36	7 ^h 11	27 ^h 4	29 ^h 34	16 ^h D39	18 ^h 5	24 ^h 42	1 ^h 47
T 27	2 19 9	2 ^h 59'37	5 ^h 15	0 ^h 134	16 ^h 44	16 ^h 35	11 ^h 24	6 ^h 43	7 ^h 14	27 ^h 6	29 ^h 36	16 ^h 40	18 ^h 1	24 ^h 49	1 ^h 45
F 28	2 23 6	3 ^h 59'29	19 ^h 3	2 ^h 14	17 ^h 40	17 ^h 11	11 ^h 36	6 ^h 51	7 ^h 17	27 ^h 7	29 ^h 39	16 ^h 41	17 ^h 58	24 ^h 56	1 ^h 42
S 29	2 27 2	4 ^h 59'23	3 ^h 1	3 ^h 54	18 ^h 37	17 ^h 47	11 ^h 48	6 ^h 58	7 ^h 20	27 ^h 9	29 ^h 41	16 ^h R42	17 ^h 55	25 ^h 2	1 ^h 39
S 30	2 30 59	5 ^h 59'19	17 ^h 10	5 ^h 33	19 ^h 34	18 ^h 24	12 ^h 0	7 ^h 5	7 ^h 24	27 ^h 10	29 ^h 44	16 ^h 41	17 ^h 52	25 ^h 9	1 ^h 36
M31	2 34 55	6 ^h 15 ^h 9'18	1 ^h 28	7 ^h 11	20 ^h 32	19 ^h 11	12 ^h 12	7 ^h 12	7 ^h 27	27 ^h 12	29 ^h 46	16 ^h 39	17 ^h 49	25 ^h 16	1 ^h 34

SWISS EPHEMERIS for the year 1983

NOVEMBER 1983

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	2 38 52	7♈59°19	15♈52	8♈49	21♈30	19♈36	12♈24	7♈20	7♈30	27♈13	29♈48	16°R35	17♈45	25♈22	1°R31
W 2	2 42 48	8°59'21	0♈18	10°27	22°29	20°12	12°37	7°27	7°34	27°15	29°51	16°R30	17°42	25°29	1°R28
T 3	2 46 45	9°59'26	14°40	12° 4	23°28	20°48	12°49	7°24	7°37	27°17	29°53	16°24	17°39	25°36	1°25
F 4	2 50 41	10°59'33	28°54	13°41	24°27	21°24	13° 1	7°41	7°40	27°18	29°56	16°18	17°36	25°43	1°22
S 5	2 54 38	11°59'42	12♈53	15°17	25°27	22° 0	13°14	7°49	7°44	27°20	29°58	16°13	17°33	25°49	1°19
S 6	2 58 34	12°59'53	26°33	16°53	26°28	22°36	13°26	7°56	7°47	27°22	0♈ 0	16°10	17°30	25°56	1°16
M 7	3 2 31	14° 0'05	9♈53	18°28	27°29	23°12	13°39	8° 3	7°51	27°24	0° 3	16°D 9	17°26	26° 3	1°13
T 8	3 6 28	15° 0'20	22°51	20° 3	28°30	23°48	13°52	8°10	7°54	27°25	0° 5	16° 9	17°23	26° 9	1°10
W 9	3 10 24	16° 0'35	5♈29	21°37	29°32	24°24	14° 4	8°17	7°58	27°27	0° 7	16°10	17°20	26°16	1° 7
T 10	3 14 21	17° 0'53	17°49	23°12	0♈34	25° 0	14°17	8°25	8° 1	27°29	0°10	16°12	17°17	26°23	1° 3
F 11	3 18 17	18° 1'12	29°55	24°46	1°37	25°36	14°30	8°32	8° 5	27°31	0°12	16°13	17°14	26°30	1° 0
S 12	3 22 14	19° 1'32	11♈52	26°19	2°39	26°11	14°43	8°39	8° 8	27°33	0°14	16°14	17°11	26°36	0°57
S 13	3 26 10	20° 1'54	23°44	27°52	3°43	26°47	14°55	8°46	8°12	27°35	0°17	16°R15	17° 7	26°43	0°54
M14	3 30 7	21° 2'17	5♈37	29°25	4°46	27°23	15° 8	8°53	8°15	27°37	0°19	16°14	17° 4	26°50	0°51
T 15	3 34 4	22° 2'41	17°34	0♈58	5°50	27°58	15°21	9° 0	8°19	27°38	0°21	16°11	17° 1	26°56	0°47
W16	3 38 0	23° 3'07	29°41	2°31	6°54	28°34	15°34	9° 7	8°22	27°40	0°24	16° 8	16°58	27° 3	0°44
T 17	3 41 57	24° 3'34	12♈ 1	4° 3	7°59	29° 9	15°47	9°15	8°26	27°42	0°26	16° 5	16°55	27°10	0°41
F 18	3 45 53	25° 4'03	24°37	5°35	9° 3	29°45	16° 1	9°22	8°30	27°44	0°28	16° 1	16°51	27°17	0°38
S 19	3 49 50	26° 4'33	7♈29	7° 6	10° 9	0♈20	16°14	9°29	8°33	27°46	0°30	15°58	16°48	27°23	0°35
S 20	3 53 46	27° 5'04	20°39	8°38	11°14	0°55	16°27	9°36	8°37	27°48	0°33	15°56	16°45	27°30	0°31
M21	3 57 43	28° 5'37	4♈ 5	10° 9	12°20	1°31	16°40	9°43	8°41	27°50	0°35	15°55	16°42	27°37	0°28
T 22	4 1 39	29° 6'12	17°46	11°40	13°26	2° 6	16°53	9°50	8°44	27°52	0°37	15°D54	16°39	27°43	0°25
W23	4 5 36	0♈ 6'48	1♈39	13°10	14°32	2°41	17° 6	9°57	8°48	27°54	0°39	15°55	16°36	27°50	0°21
T 24	4 9 33	1° 7'26	15°40	14°40	15°38	3°16	17°20	10° 4	8°51	27°56	0°41	15°56	16°32	27°57	0°18
F 25	4 13 29	2° 8'06	29°49	16°10	16°45	3°51	17°33	10°11	8°55	27°59	0°44	15°57	16°29	28° 4	0°15
S 26	4 17 26	3° 8'47	14♈ 0	17°40	17°52	4°26	17°46	10°17	8°59	28° 1	0°46	15°58	16°26	28°10	0°12
S 27	4 21 22	4° 9'29	28°12	19° 9	18°59	5° 1	18° 0	10°24	9° 2	28° 3	0°48	15°R58	16°23	28°17	0° 8
M28	4 25 19	5°10'14	12♈23	20°38	20° 6	5°36	18°13	10°31	9° 6	28° 5	0°50	15°58	16°20	28°24	0° 5
T 29	4 29 15	6°10'59	26°31	22° 7	21°14	6°11	18°27	10°38	9°10	28° 7	0°52	15°58	16°17	28°30	0° 2
W30	4 33 12	7°11'47	10♈33	23♈35	22♈22	6♈46	18♈40	10♈45	9♈14	28♈ 9	0♈54	15°I57	16°I13	28°37	29♈59

Delta T = 53.66 sec.

DECEMBER 1983

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	4 37 8	8♈12°36	24♈27	25♈ 2	23♈30	7♈20	18♈54	10♈51	9♈17	28♈11	0♈56	15°R56	16°I10	28°44	29°R55
F 2	4 41 5	9°13'26	8♈10	26°29	24°38	7°55	19° 7	10°58	9°21	28°13	0°58	15°I55	16° 7	28°51	29°R52
S 3	4 45 2	10°14'18	21°42	27°55	25°47	8°30	19°21	11° 5	9°25	28°16	1° 0	15°54	16° 4	28°57	29°49
S 4	4 48 58	11°15'11	5♈ 0	29°20	26°55	9° 4	19°34	11°11	9°28	28°18	1° 2	15°54	16° 1	29° 4	29°46
M 5	4 52 55	12°16'05	18° 2	0♈44	28° 4	9°38	19°48	11°18	9°32	28°20	1° 4	15°D54	15°57	29°11	29°42
T 6	4 56 51	13°17'00	0♈49	2° 7	29°13	10°13	20° 1	11°24	9°36	28°22	1° 6	15°54	15°54	29°17	29°39
W 7	5 0 48	14°17'57	13°20	3°29	0♈22	10°47	20°15	11°31	9°39	28°24	1° 8	15°54	15°51	29°24	29°36
T 8	5 4 44	15°18'54	25°37	4°49	1°32	11°21	20°28	11°37	9°43	28°27	1°10	15°54	15°48	29°31	29°33
F 9	5 8 41	16°19'51	7♈43	6° 7	2°41	11°56	20°42	11°44	9°47	28°29	1°12	15°R54	15°45	29°38	29°30
S 10	5 12 37	17°20'50	19°40	7°23	3°51	12°30	20°56	11°50	9°50	28°31	1°13	15°54	15°42	29°44	29°27
S 11	5 16 34	18°21'49	1♈32	8°36	5° 1	13° 4	21° 9	11°56	9°54	28°33	1°15	15°54	15°38	29°51	29°24
M12	5 20 31	19°22'49	13°25	9°47	6°10	13°38	21°23	12° 3	9°58	28°36	1°17	15°54	15°35	29°58	29°21
T 13	5 24 27	20°23'49	25°21	10°54	7°21	14°12	21°36	12° 9	10° 1	28°38	1°19	15°D54	15°32	0♈ 4	29°18
W14	5 28 24	21°24'50	7♈26	11°57	8°31	14°45	21°50	12°15	10° 5	28°40	1°21	15°54	15°29	0°11	29°15
T 15	5 32 20	22°25'52	19°45	12°56	9°41	15°19	22° 4	12°21	10° 9	28°42	1°22	15°55	15°26	0°18	29°12
F 16	5 36 17	23°26'54	2♈22	13°50	10°52	15°53	22°17	12°27	10°12	28°45	1°24	15°55	15°23	0°25	29° 9
S 17	5 40 13	24°27'56	15°19	14°38	12° 2	16°26	22°31	12°33	10°16	28°47	1°26	15°56	15°19	0°31	29° 6
S 18	5 44 10	25°28'59	28°39	15°19	13°13	17° 0	22°45	12°39	10°19	28°49	1°27	15°57	15°16	0°38	29° 3
M19	5 48 6	26°30'03	12♈22	15°52	14°24	17°33	22°58	12°45	10°23	28°51	1°29	15°R57	15°13	0°45	29° 0
T 20	5 52 3	27°31'07	26°25	16°18	15°35	18° 7	23°12	12°51	10°27	28°54	1°31	15°57	15°10	0°52	28°57
W21	5 56 0	28°32'11	10♈45	16°33	16°46	18°40	23°26	12°57	10°30	28°56	1°32	15°56	15° 7	0°58	28°55
T 22	5 59 56	29°33'16	25°18	16°R39	17°57	19°13	23°39	13° 3	10°34	28°58	1°34	15°55	15° 3	1° 5	28°52
F 23	6 3 53	0♈34°22	9♈55	16°34	19° 8	19°46	23°53	13° 8	10°37	29° 0	1°35	15°53	15° 0	1°12	28°49
S 24	6 7 49	1°35'29	24°32	16°17	20°19	20°19	24° 6	13°14	10°41	29° 3	1°37	15°51	14°57	1°18	28°47
S 25	6 11 46	2°36'36	9♈ 2	15°49	21°31	20°52	24°20	13°19	10°44	29° 5	1°38	15°49	14°54	1°25	28°44
M26	6 15 42	3°37'43	23°20	15° 9	22°43	21°25	24°33	13°25	10°48	29° 7	1°39	15°48	14°51	1°32	28°42
T 27	6 19 39	4°38'52	7♈25	14°18	23°54	21°58	24°47	13°30	10°51	29°10	1°41	15°D48	14°48	1°39	28°39
W28	6 23 35	5°40'01	21°14	13°16	25° 6	22°30	25° 1	13°36	10°55	29°12	1°42	15°49	14°44	1°45	28°37
T 29	6 27 32	6°41'10	4♈49	12° 6	26°18	23° 3	25°14	13°41	10°58	29°14	1°43	15°50	14°41	1°52	28°34
F 30	6 31 29	7°42'20	18° 8	10°50	27°30	23°35	25°28	13°46	11° 2	29°16	1°45	15°52	14°38	1°59	28°32
S 31	6 35 25	8°43'30	1♈14	9♈29	28♈42	24♈ 8	25♈41	13♈51	11♈ 5	29♈19	1♈46	15°I53	14°I35	2♈ 5	28°R30

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