

SWISS EPHEMERIS for the year 1987

JANUARY 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♆	♁	♁	♁	♁	♁
T 1	6 40 27	10♈ 1'13	22♈ 27	3♊ 11	24♈ 5	24♈ 45	17♈ 31	15♈ 23	23♈ 36	5♊ 41	9♈ 28	16°R50	16°Y30	4♈ 18	17°R23
F 2	6 44 24	11° 2'24	7♈ 37	4°45	24°59	25°27	17°40	15°30	23°39	5°43	9°29	16°Y39	16°26	4°25	17°II19
S 3	6 48 20	12° 3'35	22°25	6°20	25°53	26° 9	17°50	15°36	23°43	5°46	9°30	16°30	16°23	4°32	17°16
S 4	6 52 17	13° 4'45	6♈ 45	7°55	26°48	26°51	18° 0	15°43	23°47	5°48	9°32	16°24	16°20	4°38	17°13
M 5	6 56 13	14° 5'56	20°35	9°30	27°43	27°33	18° 9	15°49	23°50	5°50	9°33	16°20	16°17	4°45	17°10
T 6	7 0 10	15° 7'06	3°Y56	11° 5	28°39	28°15	18°19	15°56	23°53	5°53	9°34	16°19	16°14	4°52	17° 7
W 7	7 4 6	16° 8'15	16°50	12°41	29°35	28°56	18°30	16° 2	23°57	5°55	9°36	16°19	16°11	4°59	17° 4
T 8	7 8 3	17° 9'24	29°22	14°18	0♊ 33	29°38	18°40	16° 9	24° 0	5°57	9°37	16°18	16° 7	5° 5	17° 1
F 9	7 12 0	18°10'33	11♈ 38	15°54	1°30	0°Y20	18°50	16°15	24° 4	5°59	9°38	16°17	16° 4	5°12	16°58
S 10	7 15 56	19°11'41	23°42	17°32	2°28	1° 2	19° 1	16°22	24° 7	6° 1	9°39	16°13	16° 1	5°19	16°55
S 11	7 19 53	20°12'49	5♈ 38	19° 9	3°27	1°44	19°11	16°28	24°11	6° 4	9°40	16° 6	15°58	5°25	16°52
M12	7 23 49	21°13'57	17°30	20°47	4°26	2°26	19°22	16°34	24°14	6° 6	9°42	15°56	15°55	5°32	16°49
T 13	7 27 46	22°15'04	29°21	22°26	5°26	3° 8	19°33	16°41	24°17	6° 8	9°43	15°44	15°52	5°39	16°46
W14	7 31 42	23°16'10	11♈ 14	24° 5	6°26	3°50	19°44	16°47	24°21	6°10	9°44	15°30	15°48	5°46	16°44
T 15	7 35 39	24°17'16	23° 9	25°44	7°26	4°32	19°55	16°53	24°24	6°13	9°45	15°15	15°45	5°52	16°41
F 16	7 39 36	25°18'22	5♈ 8	27°24	8°27	5°14	20° 6	16°59	24°27	6°15	9°46	15° 0	15°42	5°59	16°38
S 17	7 43 32	26°19'27	17°12	29° 5	9°28	5°56	20°17	17° 5	24°30	6°17	9°47	14°47	15°39	6° 6	16°36
S 18	7 47 29	27°20'32	29°22	0♈ 46	10°30	6°38	20°29	17°11	24°34	6°19	9°47	14°37	15°36	6°13	16°33
M19	7 51 25	28°21'36	11♈ 40	2°27	11°32	7°20	20°40	17°17	24°37	6°21	9°48	14°30	15°32	6°19	16°31
T 20	7 55 22	29°22'40	24° 8	4° 9	12°34	8° 2	20°52	17°23	24°40	6°23	9°49	14°26	15°29	6°26	16°29
W21	7 59 18	0♈ 23'44	6♈ 49	5°51	13°37	8°44	21° 3	17°29	24°43	6°25	9°50	14°24	15°26	6°33	16°26
T 22	8 3 15	1°24'47	19°47	7°34	14°40	9°25	21°15	17°35	24°46	6°28	9°51	14°D24	15°23	6°39	16°24
F 23	8 7 11	2°25'50	3♈ 5	9°17	15°43	10° 7	21°27	17°40	24°49	6°30	9°51	14°R24	15°20	6°46	16°22
S 24	8 11 8	3°26'52	16°45	11° 1	16°47	10°49	21°39	17°46	24°52	6°32	9°52	14°23	15°17	6°53	16°20
S 25	8 15 5	4°27'54	0♈ 50	12°45	17°51	11°31	21°51	17°52	24°55	6°34	9°53	14°21	15°13	7° 0	16°18
M26	8 19 1	5°28'56	15°20	14°29	18°55	12°13	22° 3	17°57	24°58	6°36	9°53	14°15	15°10	7° 6	16°16
T 27	8 22 58	6°29'57	0♈ 11	16°13	20° 0	12°55	22°15	18° 3	25° 1	6°38	9°54	14° 8	15° 7	7°13	16°14
W28	8 26 54	7°30'57	15°17	17°57	21° 5	13°37	22°28	18° 8	25° 4	6°40	9°55	13°58	15° 4	7°20	16°12
T 29	8 30 51	8°31'57	0♈ 27	19°41	22°10	14°18	22°40	18°14	25° 7	6°42	9°55	13°48	15° 1	7°27	16°10
F 30	8 34 47	9°32'56	15°32	21°24	23°15	15° 0	22°52	18°19	25°10	6°44	9°56	13°38	14°58	7°33	16° 8
S 31	8 38 44	10°33'53	0♈ 22	23° 8	24°21	15°Y42	23° 5	18°24	25°13	6♈ 46	9♈ 56	13°Y29	14°Y54	7♈ 40	16°II 7

Day	☉	☽	♀	♁	♂	♃	♅	♁	♆	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	23s 4	26s29	4s59	24s34	1s10	15s14	3n40	2s31	0s28	6s 3	1s12	21s10	1n29	23s24	0s 7	22s19	1n 1	0n41	16n 8	6n37	6n29	28n24	17n11	5s42
F 2	22 59	22 53	4 40	24 37	1 15	15 26	3 41	2 13	0 27	5 59	1 12	21 11	1 29	23 24	0 7	22 19	1 1	0 41	16 8	6 33	6 28	28 24	17 10	5 42
S 3	22 54	17 53	4 4	24 38	1 20	15 38	3 42	1 55	0 25	5 55	1 12	21 11	1 29	23 24	0 7	22 18	1 1	0 41	16 9	6 29	6 27	28 24	17 10	5 41
S 4	22 48	12 1	3 12	24 38	1 25	15 50	3 43	1 37	0 24	5 51	1 12	21 12	1 29	23 25	0 7	22 18	1 1	0 41	16 9	6 27	6 25	28 24	17 10	5 41
M 5	22 42	5 45	2 11	24 36	1 30	16 2	3 43	1 20	0 23	5 47	1 12	21 13	1 29	23 25	0 7	22 18	1 1	0 41	16 10	6 26	6 24	28 24	17 10	5 41
T 6	22 35	0n34	1 5	24 33	1 35	16 14	3 43	1 2	0 22	5 43	1 11	21 13	1 29	23 25	0 7	22 18	1 1	0 41	16 10	6 25	6 23	28 24	17 10	5 41
W 7	22 28	6 39	0n 3	24 29	1 39	16 26	3 43	0 44	0 20	5 39	1 11	21 14	1 29	23 25	0 7	22 18	1 1	0 41	16 10	6 25	6 22	28 24	17 9	5 41
T 8	22 21	12 19	1 8	24 23	1 43	16 38	3 43	0 26	0 19	5 34	1 11	21 15	1 29	23 25	0 7	22 18	1 1	0 42	16 11	6 25	6 21	28 24	17 9	5 41
F 9	22 13	17 23	2 9	24 15	1 46	16 50	3 42	0 8	0 18	5 30	1 11	21 15	1 29	23 25	0 7	22 18	1 1	0 42	16 11	6 24	6 19	28 23	17 9	5 41
S 10	22 4	21 40	3 3	24 7	1 50	17 2	3 42	0n10	0 17	5 26	1 11	21 16	1 29	23 26	0 7	22 18	1 1	0 42	16 12	6 23	6 18	28 23	17 9	5 41
S 11	21 55	25 0	3 49	23 56	1 53	17 14	3 41	0 27	0 15	5 22	1 11	21 17	1 29	23 26	0 7	22 18	1 1	0 42	16 12	6 20	6 17	28 23	17 9	5 40
M12	21 46	27 14	4 24	23 45	1 56	17 25	3 40	0 45	0 14	5 17	1 10	21 17	1 29	23 26	0 7	22 18	1 1	0 42	16 13	6 16	6 16	28 23	17 9	5 40
T 13	21 36	28 14	4 47	23 31	1 58	17 37	3 39	1 3	0 13	5 13	1 10	21 18	1 29	23 26	0 7	22 18	1 1	0 42	16 13	6 12	6 14	28 23	17 9	5 40
W14	21 26	27 55	4 58	23 17	2 1	17 48	3 38	1 21	0 12	5 8	1 10	21 18	1 29	23 26	0 7	22 17	1 1	0 42	16 14	6 0	6 13	28 23	17 9	5 40
T 15	21 16	26 19	4 56	23 0	2 2	17 59	3 37	1 38	0 11	5 4	1 10	21 19	1 29	23 26	0 7	22 17	1 1	0 42	16 14	6 0	6 12	28 23	17 9	5 40
F 16	21 5	23 32	4 41	22 42	2 4	18 10	3 35	1 56	0 10	4 59	1 10	21 20	1 29	23 27	0 7	22 17	1 1	0 43	16 15	5 55	6 11	28 22	17 8	5 40
S 17	20 53	19 42	4 14	22 23	2 5	18 21	3 34	2 14	0 8	4 55	1 10	21 20	1 29	23 27	0 7	22 17	1 1	0 43	16 15	5 50	6 10	28 22	17 8	5 39
S 18	20 42	15 2	3 34	22 2	2 6	18 32	3 32	2 31	0 7	4 50	1 10	21 21	1 29	23 27	0 7	22 17	1 1	0 43	16 16	5 46	6 8	28 22	17 8	5 39
M19	20 30	9 43	2 44	21 39	2 6	18 42	3 30	2 49	0 6	4 46	1 9	21 21	1 29	23 27	0 7	22 17	1 1	0 43	16 16	5 43	6 7	28 22	17 8	5 39
T 20	20 17	3 56	1 45	21 15	2 6	18 52	3 28	3 6	0 5	4 41	1 9	21 22	1 29	23 27	0 7	22 17	1 1	0 44	16 17	5 41	6 6	28 22	17 8	5 39
W21	20 4	2s 6	0 40	20 50	2 5	19 2	3 26	3 24	0 4	4 36	1 9	21 22	1 29	23 27	0 7	22 17	1 1	0 44	16 17	5 41	6 5	28 22	17 8	5 38
T 22	19 51	8 11	0s29	20 23	2 4	19 11	3 24	3 41	0 3	4 32	1 9	21 23	1 30	23 27	0 7	22 17	1 1	0 44	16 18	5 41	6 3	28 21	17 8	5 38
F 23	19 37	14 4	1 37	19 54	2 2	19 21	3 21	3 59	0 2	4 27	1 9	21 23	1 30	23 28	0 7	22 16	1 1	0 44	16 18	5 41	6 2	28 21	17 8	5 38
S 24	19 23	19 26	2 43	19 24	2 0	19 29	3 19	4 16	0 1	4 22	1 9</													

SWISS EPHEMERIS for the year 1987

FEBRUARY 1987

00:00 UT

Main table of astronomical data for February 1987, listing celestial objects and their coordinates (Sid.t, longitude, latitude) across 28 days.

Table with columns for Day, longitude, latitude, and other astronomical parameters, providing detailed data for each day of the month.

Julian Day Number = 2446827.5, Delta T = 55.36 sec
Ecliptic obliquity = 23°26'36, Nutation = - 0°00'03
Ayanamsha: Fagan/Bradley = 24°33'36, Lahiri = 23°40'36

SWISS EPHEMERIS for the year 1987

MARCH 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	10 33 4	9 ^h 51'49	22 ^h 39	7°R15	27 ^h 17	5 ^h 46	29 ^h 35	20 ^h 25	26 ^h 18	7 ^h 34	9°R53	11°R45	13 ^h 22	10 ^h 55	15 ^h 51
M 2	10 37 1	10°52'04	6 ^h 33	6 ^h 11	28°27	6°28	29°49	20°27	26°20	7°35	9 ^h 53	11°D43	13°19	11° 2	15°52
T 3	10 40 57	11°52'17	2° 3	5°10	29°37	7° 9	0 ^h 3	20°30	26°21	7°36	9°52	11°R44	13°16	11° 8	15°52
W 4	10 44 54	12°52'29	3 ^h 8	4°13	0 ^h 47	7°50	0°17	20°33	26°23	7°38	9°51	11°45	13°13	11°15	15°53
T 5	10 48 50	13°52'38	15°51	3°20	1°57	8°31	0°32	20°36	26°24	7°39	9°51	11°46	13°10	11°22	15°54
F 6	10 52 47	14°52'45	28°15	2°32	3° 8	9°12	0°46	20°38	26°26	7°40	9°50	11°48	13° 6	11°29	15°55
S 7	10 56 43	15°52'50	10 ^h 24	1°50	4°18	9°53	1° 0	20°41	26°27	7°41	9°49	11°R49	13° 3	11°35	15°56
S 8	11 0 40	16°52'54	22°22	1°15	5°29	10°34	1°14	20°43	26°28	7°42	9°48	11°49	13° 0	11°42	15°57
M 9	11 4 36	17°52'54	4 ^h 15	0°46	6°39	11°15	1°29	20°45	26°30	7°43	9°47	11°48	12°57	11°49	15°58
T 10	11 8 33	18°52'53	16° 7	0°24	7°50	11°56	1°43	20°47	26°31	7°44	9°47	11°46	12°54	11°55	15°59
W 11	11 12 30	19°52'50	28° 3	0° 8	9° 0	12°37	1°58	20°49	26°32	7°45	9°46	11°43	12°50	12° 2	16° 1
T 12	11 16 26	20°52'44	10 ^h 6	29 ^h 59	10°11	13°18	2°12	20°51	26°33	7°46	9°45	11°39	12°47	12° 9	16° 2
F 13	11 20 23	21°52'37	22°18	29°D57	11°22	13°59	2°26	20°53	26°34	7°47	9°44	11°36	12°44	12°16	16° 3
S 14	11 24 19	22°52'27	4 ^h 43	0 ^h 1	12°33	14°40	2°41	20°55	26°35	7°48	9°43	11°33	12°41	12°22	16° 5
S 15	11 28 16	23°52'15	17°22	0°10	13°44	15°21	2°55	20°57	26°36	7°49	9°42	11°31	12°38	12°29	16° 7
M 16	11 32 12	24°52'01	0 ^h 14	0°26	14°55	16° 2	3°10	20°58	26°37	7°50	9°41	11°30	12°35	12°36	16° 8
T 17	11 36 9	25°51'45	13°20	0°46	16° 6	16°42	3°24	21° 0	26°38	7°51	9°40	11°D29	12°31	12°43	16°10
W 18	11 40 5	26°51'28	26°40	1°11	17°17	17°23	3°39	21° 1	26°38	7°51	9°39	11°30	12°28	12°49	16°12
T 19	11 44 2	27°51'08	10 ^h 12	1°42	18°28	18° 4	3°53	21° 2	26°39	7°52	9°37	11°31	12°25	12°56	16°14
F 20	11 47 58	28°50'47	23°55	2°16	19°39	18°45	4° 8	21° 3	26°40	7°53	9°36	11°32	12°22	13° 3	16°16
S 21	11 51 55	29°50'24	7 ^h 49	2°55	20°51	19°25	4°22	21° 5	26°40	7°53	9°35	11°33	12°19	13° 9	16°18
S 22	11 55 52	0 ^h 49'59	21°52	3°37	22° 2	20° 6	4°37	21° 6	26°41	7°54	9°34	11°33	12°15	13°16	16°20
M 23	11 59 48	1°49'33	6 ^h 3	4°24	23°14	20°47	4°51	21° 6	26°41	7°55	9°33	11°R33	12°12	13°23	16°22
T 24	12 3 45	2°49'05	20°17	5°13	24°25	21°27	5° 6	21° 7	26°42	7°55	9°31	11°33	12° 9	13°30	16°24
W 25	12 7 41	3°48'35	4 ^h 35	6° 6	25°36	22° 8	5°20	21° 8	26°42	7°56	9°30	11°32	12° 6	13°36	16°27
T 26	12 11 38	4°48'04	18°53	7° 2	26°48	22°48	5°35	21° 8	26°43	7°56	9°29	11°32	12° 3	13°43	16°29
F 27	12 15 34	5°47'30	3 ^h 6	8° 1	28° 0	23°29	5°49	21° 9	26°43	7°57	9°28	11°31	12° 0	13°50	16°31
S 28	12 19 31	6°46'55	17°10	9° 2	29°11	24° 9	6° 4	21° 9	26°43	7°57	9°26	11°30	11°56	13°56	16°34
S 29	12 23 27	7°46'17	1 ^h 2	10° 7	0 ^h 23	24°50	6°18	21°10	26°43	7°58	9°25	11°30	11°53	14° 3	16°36
M 30	12 27 24	8°45'38	14°38	11°13	1°35	25°30	6°33	21°10	26°44	7°58	9°24	11°D30	11°50	14°10	16°39
T 31	12 31 21	9°44'57	27°56	12 ^h 22	2 ^h 46	26°11	6°47	21°R10	26°44	7°58	9°22	11°V30	11°47	14 ^h 17	16 ^h 42

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
S 1	7s52	4s29	1s42	5s27	3n40	19s37	1n 7	13n55	0n30	1s10	1s 6	21s34	1n32	23s31	0s 8
M 2	7 30	2n10	0 28	5 55	3 35	19 27	1 3	14 10	0 31	1 4	1 6	21 34	1 32	23 31	0 8
T 3	7 7	8 32	0n45	6 23	3 28	19 16	0 59	14 24	0 31	0 59	1 5	21 34	1 32	23 31	0 8
W 4	6 44	14 21	1 55	6 52	3 20	19 6	0 55	14 38	0 32	0 53	1 5	21 34	1 32	23 31	0 8
T 5	6 21	19 24	2 56	7 20	3 10	18 54	0 51	14 52	0 33	0 47	1 5	21 34	1 32	23 31	0 8
F 6	5 57	23 28	3 48	7 48	2 58	18 42	0 47	15 5	0 33	0 42	1 5	21 34	1 33	23 31	0 8
S 7	5 34	26 26	4 28	8 14	2 46	18 30	0 43	15 19	0 34	0 36	1 5	21 35	1 33	23 31	0 8
S 8	5 11	28 9	4 56	8 39	2 33	18 17	0 39	15 33	0 35	0 30	1 5	21 35	1 33	23 31	0 8
M 9	4 47	28 34	5 11	9 2	2 19	18 3	0 35	15 46	0 35	0 25	1 5	21 35	1 33	23 31	0 8
T 10	4 24	27 39	5 13	9 23	2 5	17 49	0 31	15 59	0 36	0 19	1 5	21 35	1 33	23 32	0 8
W 11	4 0	25 28	5 1	9 42	1 51	17 35	0 27	16 13	0 37	0 13	1 5	21 35	1 33	23 32	0 8
T 12	3 37	22 9	4 36	9 58	1 36	17 20	0 23	16 26	0 37	0 7	1 5	21 35	1 33	23 32	0 8
F 13	3 13	17 50	3 59	10 13	1 22	17 4	0 19	16 38	0 38	0 2	1 5	21 35	1 33	23 32	0 8
S 14	2 50	12 43	3 9	10 25	1 8	16 48	0 15	16 51	0 38	0n 4	1 5	21 35	1 33	23 32	0 8
S 15	2 26	6 59	2 9	10 35	0 54	16 32	0 11	17 4	0 39	0 10	1 5	21 35	1 33	23 32	0 8
M 16	2 2	0 51	1 2	10 42	0 40	16 15	0 8	17 16	0 39	0 16	1 5	21 35	1 33	23 32	0 8
T 17	1 39	5s25	0s10	10 47	0 26	15 57	0 4	17 28	0 40	0 21	1 5	21 35	1 34	23 32	0 8
W 18	1 15	11 34	1 23	10 51	0 13	15 39	0 0	17 40	0 41	0 27	1 5	21 35	1 34	23 32	0 8
T 19	0 51	17 17	2 32	10 52	0 1	15 21	0s 3	17 52	0 41	0 33	1 5	21 35	1 34	23 32	0 8
F 20	0 28	22 12	3 34	10 51	0s11	15 2	0 7	18 4	0 42	0 39	1 5	21 35	1 34	23 32	0 8
S 21	0 4	25 57	4 23	10 48	0 23	14 43	0 11	18 16	0 42	0 45	1 5	21 35	1 34	23 32	0 8
S 22	0n20	28 9	4 58	10 43	0 34	14 23	0 14	18 27	0 43	0 50	1 5	21 35	1 34	23 32	0 8
M 23	0 44	28 33	5 15	10 36	0 45	14 3	0 18	18 39	0 43	0 56	1 5	21 35	1 34	23 32	0 8
T 24	1 7	27 4	5 13	10 27	0 55	13 43	0 21	18 50	0 44	1 2	1 5	21 35	1 34	23 32	0 8
W 25	1 31	23 50	4 51	10 17	1 5	13 22	0 24	19 1	0 44	1 8	1 5	21 35	1 34	23 32	0 8
T 26	1 54	19 9	4 12	10 4	1 14	13 1	0 28	19 12	0 45	1 13	1 5	21 35	1 34	23 32	0 8
F 27	2 18	13 26	3 17	9 51	1 23	12 39	0 31	19 23	0 45	1 19	1 5	21 35	1 35	23 32	0 8
S 28	2 42	7 5	2 11	9 35	1 31	12 17	0 34	19 33	0 46	1 25	1 5	21 34	1 35	23 32	0 8
S 29	3 5	0 28	0 58	9 18	1 38	11 55	0 37	19 44	0 46	1 31	1 5	21 34	1 35	23 32	0 8
M 30	3 28	6n 2	0n17	8 59	1 46	11 32	0 40	19 54	0 47	1 36	1 5	21 34	1 35	23 32	0 8
T 31	3n52	12n 8	1n30	8s39	1s52	11s 9	0s43	20n 4	0n47	1n42	1s 5	21s34	1n35	23s32	0s 8

Julian Day Number = 2446855.5, Delta T = 55.40 sec
 Ecliptic obliquity = 23°26'37", Nutation = - 0°00'03"
 Ayanamsha: Fagan/Bradley = 24°33'40", Lahiri = 23°40'40"

SWISS EPHEMERIS for the year 1987

APRIL 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒
W 1	12 35 17	10°Y44'13	10°B56	13°X33	3°X58	26°B51	7°Y 2	21°R10	26°R44	7°Z59	9°R21	11°Y30	11°Y44	14°E23	16°II45						
T 2	12 39 14	11°43'27	23°37	14°46	5°10	27°31	7°16	21°A10	26°A44	7°59	9°M19	11°R30	11°41	14°30	16°47						
F 3	12 43 10	12°42'40	6°II 2	16° 1	6°22	28°12	7°31	21° 9	26°44	7°59	9°18	11°30	11°37	14°37	16°50						
S 4	12 47 7	13°41'49	18°13	17°19	7°34	28°52	7°45	21° 9	26°43	8° 0	9°16	11°30	11°34	14°44	16°53						
S 5	12 51 3	14°40'57	0°E13	18°38	8°45	29°32	8° 0	21° 9	26°43	8° 0	9°15	11°30	11°31	14°50	16°56						
M 6	12 55 0	15°40'02	12° 8	19°59	9°57	0°II12	8°14	21° 8	26°43	8° 0	9°13	11°D30	11°28	14°57	16°59						
T 7	12 58 56	16°39'05	24° 1	21°22	11° 9	0°53	8°29	21° 7	26°43	8° 0	9°12	11°30	11°25	15° 4	17° 2						
W 8	13 2 53	17°38'06	5°O57	22°46	12°21	1°33	8°43	21° 7	26°42	8° 0	9°10	11°30	11°21	15°10	17° 6						
T 9	13 6 50	18°37'05	18° 1	24°12	13°33	2°13	8°58	21° 6	26°42	8° 0	9° 9	11°30	11°18	15°17	17° 9						
F 10	13 10 46	19°36'01	0°M17	25°40	14°45	2°53	9°12	21° 5	26°42	8°R 0	9° 7	11°31	11°15	15°24	17°12						
S 11	13 14 43	20°34'54	12°48	27°10	15°57	3°33	9°26	21° 4	26°41	8° 0	9° 6	11°32	11°12	15°31	17°16						
S 12	13 18 39	21°33'46	25°36	28°41	17° 9	4°13	9°41	21° 3	26°41	8° 0	9° 4	11°33	11° 9	15°37	17°19						
M13	13 22 36	22°32'35	8°A45	0°Y14	18°21	4°53	9°55	21° 2	26°40	8° 0	9° 2	11°R33	11° 6	15°44	17°23						
T 14	13 26 32	23°31'23	2°22	1°49	19°34	5°33	10° 9	21° 0	26°39	8° 0	9° 1	11°33	11° 2	15°51	17°26						
W15	13 30 29	24°30'08	5°M57	3°25	20°46	6°13	10°24	20°59	26°39	8° 0	8°59	11°32	10°59	15°57	17°30						
T 16	13 34 25	25°28'52	19°57	5° 2	21°58	6°53	10°38	20°58	26°38	8° 0	8°58	11°31	10°56	16° 4	17°33						
F 17	13 38 22	26°27'34	4°X 8	6°42	23°10	7°33	10°52	20°56	26°37	7°59	8°56	11°29	10°53	16°11	17°37						
S 18	13 42 19	27°26'14	18°26	8°23	24°22	8°13	11° 6	20°54	26°36	7°59	8°54	11°27	10°50	16°18	17°41						
S 19	13 46 15	28°24'52	2°Z47	10° 5	25°35	8°53	11°21	20°53	26°36	7°59	8°53	11°25	10°47	16°24	17°45						
M20	13 50 12	29°23'29	17° 6	11°50	26°47	9°33	11°35	20°51	26°35	7°59	8°51	11°24	10°43	16°31	17°48						
T 21	13 54 8	0°B22'04	1°A20	13°35	27°59	10°12	11°49	20°49	26°34	7°58	8°49	11°D24	10°40	16°38	17°52						
W22	13 58 5	1°20'37	15°26	15°23	29°11	10°52	12° 3	20°47	26°33	7°58	8°48	11°24	10°37	16°45	17°56						
T 23	14 2 1	2°19'09	29°24	17°12	0°Y24	11°32	12°17	20°45	26°32	7°57	8°46	11°25	10°34	16°51	18° 0						
F 24	14 5 58	3°17'39	13°X12	19° 3	1°36	12°12	12°31	20°42	26°31	7°57	8°44	11°27	10°31	16°58	18° 4						
S 25	14 9 54	4°16'08	26°49	20°55	2°48	12°51	12°45	20°40	26°29	7°57	8°43	11°28	10°27	17° 5	18° 8						
S 26	14 13 51	5°14'34	10°Y13	22°49	4° 1	13°31	12°59	20°38	26°28	7°56	8°41	11°R29	10°24	17°11	18°12						
M27	14 17 48	6°12'59	23°26	24°45	5°13	14°11	13°13	20°35	26°27	7°56	8°39	11°28	10°21	17°18	18°17						
T 28	14 21 44	7°11'23	6°B25	26°43	6°26	14°50	13°27	20°33	26°26	7°55	8°38	11°26	10°18	17°25	18°21						
W29	14 25 41	8° 9'44	19°10	28°42	7°38	15°30	13°41	20°30	26°24	7°54	8°36	11°23	10°15	17°32	18°25						
T 30	14 29 37	9° 8'04	1°II42	0°B42	8°Y51	16°II10	13°Y55	20°A27	26°A23	7°Z54	8°M34	11°Y19	10°Y12	17°E38	18°II29						

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒				
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat			
W 1	4n15	17n35	2n36	8s17	1s58	10s46	0s46	20n14	0n48	1n48	1s 5	21s34	1n35	23s32	0s 8	22s10	1n 2	1n23	16n49	4n33	4n38	27n47	17n31	5s17
T 2	4 38	22 7	3 33	7 54	2 4	10 23	0 49	20 24	0 48	1 53	1 5	21 34	1 35	23 32	0 8	22 10	1 2	1 23	16 49	4 33	4 37	27 46	17 32	5 17
F 3	5 1	25 33	4 18	7 30	2 9	9 59	0 52	20 33	0 49	1 59	1 5	21 34	1 35	23 32	0 8	22 10	1 2	1 24	16 50	4 33	4 36	27 45	17 32	5 17
S 4	5 24	27 45	4 51	7 4	2 14	9 34	0 54	20 42	0 49	2 5	1 5	21 34	1 35	23 32	0 8	22 10	1 2	1 25	16 50	4 33	4 35	27 44	17 33	5 16
S 5	5 47	28 37	5 11	6 37	2 18	9 10	0 57	20 52	0 50	2 11	1 5	21 34	1 35	23 32	0 8	22 10	1 2	1 25	16 50	4 33	4 33	27 43	17 33	5 16
M 6	6 10	28 9	5 17	6 8	2 21	8 45	0 59	21 1	0 50	2 16	1 5	21 34	1 35	23 32	0 8	22 10	1 2	1 26	16 50	4 33	4 32	27 42	17 34	5 16
T 7	6 33	26 23	5 9	5 38	2 25	8 20	1 2	21 10	0 50	2 22	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 26	16 50	4 33	4 31	27 42	17 35	5 16
W 8	6 55	23 27	4 48	5 7	2 27	7 55	1 4	21 18	0 51	2 28	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 27	16 51	4 33	4 30	27 41	17 35	5 15
T 9	7 18	19 28	4 15	4 35	2 29	7 30	1 7	21 27	0 51	2 33	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 28	16 51	4 33	4 28	27 40	17 36	5 15
F 10	7 40	14 38	3 29	4 2	2 31	7 4	1 9	21 35	0 52	2 39	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 28	16 51	4 33	4 27	27 39	17 36	5 15
S 11	8 2	9 6	2 33	3 27	2 32	6 38	1 11	21 43	0 52	2 44	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 29	16 51	4 34	4 26	27 38	17 37	5 15
S 12	8 24	3 5	1 27	2 51	2 32	6 12	1 13	21 51	0 52	2 50	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 30	16 51	4 34	4 25	27 37	17 37	5 14
M13	8 46	3s14	0 16	2 14	2 32	5 46	1 16	21 59	0 53	2 56	1 5	21 33	1 36	23 32	0 8	22 10	1 2	1 30	16 51	4 34	4 23	27 36	17 38	5 14
T 14	9 8	9 33	0s59	1 36	2 32	5 19	1 18	22 6	0 53	3 1	1 5	21 32	1 36	23 32	0 8	22 10	1 2	1 31	16 52	4 34	4 22	27 36	17 38	5 14
W15	9 30	15 34	2 11	0 57	2 31	4 53	1 19	22 14	0 54	3 7	1 5	21 32	1 36	23 32	0 8	22 10	1 2	1 31	16 52	4 34	4 21	27 35	17 39	5 14
T 16	9 51	20 53	3 16	0 17	2 30	4 26	1 21	22 21	0 54	3 12	1 5	21 32	1 36	23 32	0 8	22 10	1 2	1 32	16 52	4 33	4 20	27 34	17 40	5 13
F 17	10 13	25 5	4 11	0n24	2 28	3 59	1 23	22 28	0 54	3 18	1 6	21 32	1 36	23 32	0 8	22 10	1 2	1 33	16 52	4 33	4 18	27 33	17 40	5 13
S 18	10 34	27 46	4 50	1 6	2 25	3 32	1 25	22 35	0 55	3 23	1 6	21 32	1 36	23 32	0 8	22 10	1 2	1 33	16 52	4 32	4 17	27 32	17 41	5 13
S 19	10 55	28 36	5 12	1 49	2 22	3 5	1 26	22 42	0 55	3 29	1 6	21 32	1 36	23 32	0 8	22 10	1 2	1 34	16 52	4 31	4 16	27 31	17 41	5 13
M20	11 16	27 32	5 14	2 33	2 18	2 37	1 28	22 48	0 55	3 34	1 6	21 31	1 37	23 32	0 8	22 10	1 2	1 34	16 52	4 31	4 15	27 30	17 42	5 13
T 21	11 36	24 41	4 56	3 18	2 14	2 10	1 29	22 54	0 56	3 40	1 6	21 31	1 37	23 32	0 8	22 10	1 2	1 35	16 52	4 30	4 13	27 29	17 42	5 12
W22	11 57	20 22	4 21	4 4	2 10	1 43	1 31	23 0	0 56	3 45	1 6	21 31	1 37	23 32	0 8	22 10	1 2	1 35	16 52	4 31	4 12	27 28	17 43	5 12
T 23	12 17	14 59	3 31	4 50	2 5	1 15	1 32	23 6	0 56	3 51	1 6	21 31	1 37	23 32	0 8	22 10	1 2	1 36	16 52	4 31	4 11	27 27	17 43	5 12
F 24	12 37	8 54	2 29	5 37	1 59	0 47	1 33	23 12	0 57	3 56	1 6	21 30	1 37	23 32	0 8	22 10	1 3	1 36	16 52	4 32	4 10	27 26	17 44	5 12
S 25	12 57	2 29	1 20	6 25	1 53	0 20	1 34	23 17	0 57	4 2	1 6	21 30	1 37	23 32	0 8	22 10	1 3	1 37	16 52	4 32	4 8	27 25	17 44	5 12
S 26	13 16	3n57	0 7	7 14	1 47	0n 8	1 35	23 23	0 57	4 7	1 6	21 30	1 37	23 32	0 8	22 10	1 3	1 38	16 52	4 32	4 7	27 24	17 45	5 11
M27	13 36	10 7	1n 5	8 3	1 40	0 36	1 36	23 28	0 58	4 12	1 6	21 30	1 37	23 32	0 8	22 10	1 3	1 39	16 52	4 32	4 6	27 23	17 45	5 11
T 28	13 55	15 45	2 13	8 52	1 32	1 4	1 37	23 33	0 58	4 18	1 6	21 30	1 37	23 32	0 8	22 10	1 3	1 39	16 52	4 32	4 5	27 22	17 4	

SWISS EPHEMERIS for the year 1987

MAY 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	14 33 34	10♉ 6'21	14♊ 2	2♉44	10♊ 3	16♊49	14♊ 8	20♊R25	26♊R22	7♊R53	8♊R32	11♊R14	10♊ 8	17♉45	18♊34
S 2	14 37 30	11° 4'37	26°10	4°48	11°15	17°29	14°22	20♊A22	26♊A20	7♉52	8♊31	11♊ 9	10° 5	17°52	18°38
S 3	14 41 27	12° 2'51	8♉ 9	6°53	12°28	18° 8	14°36	20°19	26°19	7°52	8°29	11° 5	10° 2	17°59	18°42
M 4	14 45 23	13° 1'03	20° 3	8°59	13°40	18°48	14°50	20°16	26°17	7°51	8°27	11° 1	9°59	18° 5	18°47
T 5	14 49 20	13°59'13	1♉56	11° 7	14°53	19°27	15° 3	20°13	26°16	7°50	8°26	10°59	9°56	18°12	18°51
W 6	14 53 17	14°57'21	13°51	13°15	16° 5	20° 7	15°17	20°10	26°14	7°49	8°24	10°D58	9°53	18°19	18°56
T 7	14 57 13	15°55'27	25°53	15°24	17°18	20°46	15°30	20° 6	26°12	7°49	8°22	10°59	9°49	18°25	19° 0
F 8	15 1 10	16°53'31	8♊ 8	17°34	18°31	21°25	15°44	20° 3	26°11	7°48	8°21	11° 0	9°46	18°32	19° 5
S 9	15 5 6	17°51'33	20°40	19°45	19°43	22° 5	15°57	20° 0	26° 9	7°47	8°19	11° 2	9°43	18°39	19°10
S 10	15 9 3	18°49'33	3♉32	21°55	20°56	22°44	16°10	19°56	26° 7	7°46	8°17	11° 3	9°40	18°46	19°14
M11	15 12 59	19°47'32	16°48	24° 5	22° 8	23°23	16°24	19°53	26° 5	7°45	8°16	11°R 3	9°37	18°52	19°19
T 12	15 16 56	20°45'29	0♊29	26°15	23°21	24° 3	16°37	19°49	26° 4	7°44	8°14	11° 1	9°33	18°59	19°24
W13	15 20 52	21°43'24	14°34	28°25	24°33	24°42	16°50	19°46	26° 2	7°43	8°12	10°58	9°30	19° 6	19°29
T 14	15 24 49	22°41'17	28°59	0♊33	25°46	25°21	17° 3	19°42	26° 0	7°42	8°11	10°53	9°27	19°12	19°33
F 15	15 28 46	23°39'09	13♊38	2°40	26°59	26° 0	17°16	19°38	25°58	7°41	8° 9	10°47	9°24	19°19	19°38
S 16	15 32 42	24°37'00	28°24	4°45	28°11	26°40	17°29	19°35	25°56	7°40	8° 8	10°40	9°21	19°26	19°43
S 17	15 36 39	25°34'49	13♉ 9	6°49	29°24	27°19	17°42	19°31	25°54	7°39	8° 6	10°34	9°18	19°33	19°48
M18	15 40 35	26°32'38	27°46	8°51	0♉37	27°58	17°55	19°27	25°52	7°38	8° 4	10°29	9°14	19°39	19°53
T 19	15 44 32	27°30'25	12♉ 9	10°50	1°49	28°37	18° 8	19°23	25°50	7°37	8° 3	10°27	9°11	19°46	19°58
W20	15 48 28	28°28'11	26°17	12°48	3° 2	29°16	18°20	19°19	25°48	7°36	8° 1	10°D25	9° 8	19°53	20° 3
T 21	15 52 25	29°25'55	10♊ 7	14°42	4°15	29°55	18°33	19°15	25°46	7°35	8° 0	10°26	9° 5	20° 0	20° 8
F 22	15 56 21	0♊33'39	23°40	16°34	5°27	0♉34	18°46	19°11	25°44	7°33	7°58	10°27	9° 2	20° 6	20°13
S 23	16 0 18	1°21'22	6♊57	18°23	6°40	1°13	18°58	19° 7	25°42	7°32	7°57	10°R28	8°59	20°13	20°18
S24	16 4 15	2°19'03	20° 0	20°10	7°53	1°52	19°11	19° 3	25°39	7°31	7°55	10°27	8°55	20°20	20°23
M25	16 8 11	3°16'43	2♉51	21°53	9° 6	2°31	19°23	18°59	25°37	7°30	7°54	10°25	8°52	20°26	20°28
T 26	16 12 8	4°14'23	15°30	23°33	10°18	3°10	19°35	18°54	25°35	7°28	7°52	10°20	8°49	20°33	20°33
W27	16 16 4	5°12'01	27°59	25°11	11°31	3°49	19°48	18°50	25°33	7°27	7°51	10°13	8°46	20°40	20°38
T 28	16 20 1	6° 9'38	10♊18	26°45	12°44	4°28	20° 0	18°46	25°30	7°26	7°49	10° 4	8°43	20°47	20°43
F 29	16 23 57	7° 7'14	22°28	28°16	13°57	5° 7	20°12	18°42	25°28	7°24	7°48	9°54	8°39	20°53	20°48
S 30	16 27 54	8° 4'49	4♉31	29°44	15°10	5°46	20°24	18°37	25°26	7°23	7°46	9°43	8°36	21° 0	20°53
S 31	16 31 51	9♊ 2'23	16♉27	1♉ 9	16♉22	6♉25	20♊36	18♊33	25♊24	7♉22	7♊45	9♊33	8♊33	21♉ 7	20♊58

Day	☉		☽		♀		♂		♂		♂		♂		♂		♂		♂					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
F 1	14n51	27n 5	4n38	11n22	1s 7	2n27	1s39	23n46	0n59	4n33	1s 6	21s29	1n37	23s32	0s 9	22s10	1n 3	1n40	16n52	4n27	4n 1	27n19	17n48	5s11
S 2	15 9 28	28 5	5 1	12 13	0 58	2 55	1 40	23 50	0 59	4 39	1 6	21 29	1 37	23 32	0 9	22 10	1 3	1 40	16 52	4 25	4 0	27 18	17 48	5 10
S 3	15 27 28	28 22	5 11	13 3	0 48	3 23	1 41	23 54	0 4	4 44	1 7	21 28	1 37	23 32	0 9	22 10	1 3	1 41	16 52	4 23	3 58	27 17	17 49	5 10
M 4	15 45 27	27 1	5 8	13 53	0 39	3 51	1 41	23 58	1 0	4 49	1 7	21 28	1 37	23 32	0 9	22 10	1 3	1 41	16 52	4 22	3 57	27 16	17 49	5 10
T 5	16 2 24	28 4	5 14	14 43	0 28	4 18	1 41	24 1	1 0	4 54	1 7	21 28	1 37	23 32	0 9	22 10	1 3	1 42	16 52	4 21	3 56	27 15	17 50	5 10
W 6	16 20 20	28 51	4 22	15 32	0 18	4 46	1 42	24 5	1 0	4 59	1 7	21 28	1 37	23 32	0 9	22 10	1 3	1 42	16 52	4 20	3 55	27 14	17 50	5 10
T 7	16 36 16	28 22	3 41	16 20	0 8	5 14	1 42	24 8	1 1	5 5	1 7	21 27	1 37	23 32	0 9	22 10	1 3	1 43	16 52	4 21	3 53	27 13	17 51	5 10
F 8	16 53 11	28 9	2 50	17 7	0n 3	5 41	1 42	24 11	1 1	5 10	1 7	21 27	1 37	23 32	0 9	22 10	1 3	1 43	16 52	4 21	3 52	27 12	17 51	5 10
S 9	17 9 5 22	1 49	17 53	0 13	6 8	1 42	24 13	1 1	5 15	1 7	21 27	1 37	23 32	0 9	22 10	1 3	1 43	16 52	4 22	3 51	27 11	17 52	5 9	
S 10	17 26 0s47	0 41	18 38	0 24	6 36	1 42	24 16	1 1	5 20	1 7	21 26	1 38	23 32	0 9	22 10	1 3	1 44	16 52	4 22	3 50	27 10	17 52	5 9	
M11	17 41 7 5	0s31	19 21	0 34	7 3	1 42	24 18	1 2	5 25	1 7	21 26	1 38	23 32	0 9	22 10	1 3	1 44	16 51	4 22	3 48	27 9	17 53	5 9	
T 12	17 57 13	16 1	1 44	20 2	0 45	7 30	1 42	24 20	1 2	5 30	1 7	21 26	1 38	23 32	0 9	22 10	1 3	1 44	16 51	4 22	3 47	27 7	17 53	5 9
W13	18 12 18	56 2	2 52	20 42	0 55	7 57	1 41	24 22	1 2	5 35	1 7	21 26	1 38	23 32	0 9	22 10	1 3	1 45	16 51	4 20	3 46	27 6	17 53	5 9
T 14	18 27 23	40 3	5 20	21 19	1 4	8 23	1 41	24 24	1 2	5 40	1 8	21 25	1 38	23 32	0 9	22 10	1 3	1 45	16 51	4 18	3 45	27 5	17 54	5 9
F 15	18 41 26	59 4	35 21	54 1	1 13	8 50	1 41	24 26	1 3	5 44	1 8	21 25	1 38	23 32	0 9	22 10	1 3	1 45	16 51	4 16	3 44	27 4	17 54	5 9
S 16	18 56 28	27 5	1 22	26 1	2 2	9 16	1 40	24 27	1 3	5 49	1 8	21 25	1 38	23 32	0 9	22 10	1 3	1 46	16 51	4 13	3 42	27 3	17 55	5 9
S 17	19 10 27	54 5	8 22	56 1	30 9	9 42	1 40	24 28	1 3	5 54	1 8	21 24	1 38	23 32	0 9	22 10	1 3	1 46	16 50	4 11	3 41	27 2	17 55	5 9
M18	19 23 25	25 4	5 23	24 1	38 10	8 1	39 24	29 1	3 5 59	1 8	21 24	1 38	23 32	0 9	22 11	1 3	1 46	16 50	4 9	3 40	27 1	17 56	5 9	
T 19	19 36 21	21 4	4 22	23 48	1 45	10 34	1 38	24 30	1 4	6 4	1 8	21 24	1 38	23 31	0 9	22 11	1 3	1 46	16 50	4 8	3 39	26 59	17 56	5 9
W20	19 49 16	8 3	3 35	24 11	1 51	11 0	1 38	24 30	1 4	6 8	1 8	21 24	1 38	23 31	0 9	22 11	1 3	1 47	16 50	4 8	3 37	26 58	17 57	5 8
T 21	20 2 10	11 2	2 36	24 30	1 57	11 25	1 37	24 31	1 4	6 13	1 8	21 23	1 38	23 31	0 9	22 11	1 3	1 47	16 49	4 8	3 36	26 57	17 57	5 8
F 22	20 14 3	5 3	1 29	24 47	2 2	11 50	1 36	24 31	1 4	6 18	1 8	21 23	1 38	23 31	0 9	22 11	1 3	1 47	16 49	4 8	3 35	26 56	17 57	5 8
S 23	20 26 2n28	0 19	25 2	2 6	12 15	1 35	24 31	1 4	6 22	1 9	21 23	1 38	23 31	0 9	22 11	1 3	1 47	16 49	4 9	3 34	26 55	17 58	5 8	
S 24	20 38 8 37	0n51	25 14	2 9	12 40	1 34																		

SWISS EPHEMERIS for the year 1987

JUNE 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♄	♃	♅	♁	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
M 1	16 35 47	9Π59'55	28♌19	2♋31	17♊35	7♄4	20♃48	18♂R29	25♂R21	7♁R20	7♁R44	9♁R24	8♃30	21♌13	21♌13	21♌3								
T 2	16 39 44	10°57'26	10♌9	3°49	18°48	7°42	20°59	18♂24	25♂19	7♁19	7♁42	9♁17	8°27	21°20	21°9									
W 3	16 43 40	11°54'56	22°3	5°4	20°1	8°21	21°11	18°20	25°17	7°18	7°41	9°13	8°24	21°27	21°14									
T 4	16 47 37	12°52'24	4♌3	6°16	21°14	9°0	21°23	18°15	25°14	7°16	7°40	9°11	8°20	21°34	21°19									
F 5	16 51 33	13°49'51	16°15	7°24	22°27	9°39	21°34	18°11	25°12	7°15	7°38	9°D10	8°17	21°40	21°24									
S 6	16 55 30	14°47'17	28°44	8°29	23°39	10°18	21°45	18°7	25°9	7°13	7°37	9°11	8°14	21°47	21°29									
S 7	16 59 26	15°44'42	11♌34	9°30	24°52	10°56	21°57	18°2	25°7	7°12	7°36	9°R11	8°11	21°54	21°35									
M 8	17 3 23	16°42'05	24°51	10°28	26°5	11°35	22°8	17°58	25°5	7°10	7°35	9°10	8°8	22°0	21°40									
T 9	17 7 19	17°39'28	8♌35	11°22	27°18	12°14	22°19	17°53	25°2	7°9	7°33	9°7	8°4	22°7	21°45									
W10	17 11 16	18°36'49	22°48	12°12	28°31	12°52	22°30	17°49	25°0	7°7	7°32	9°2	8°1	22°14	21°50									
T 11	17 15 13	19°34'10	7♌26	12°58	29°44	13°31	22°41	17°44	24°57	7°6	7°31	8°54	7°58	22°21	21°55									
F 12	17 19 9	20°31'30	22°24	13°41	0II57	14°10	22°52	17°40	24°55	7°4	7°30	8°44	7°55	22°27	22°1									
S 13	17 23 6	21°28'49	7♋32	14°19	2°10	14°48	23°2	17°35	24°52	7°3	7°29	8°34	7°52	22°34	22°6									
S 14	17 27 2	22°26'07	22°39	14°53	3°23	15°27	23°13	17°31	24°50	7°1	7°28	8°25	7°49	22°41	22°11									
M15	17 30 59	23°23'25	7♋37	15°23	4°36	16°6	23°24	17°27	24°48	7°0	7°27	8°17	7°45	22°48	22°16									
T 16	17 34 55	24°20'43	22°16	15°48	5°49	16°44	23°34	17°22	24°45	6°58	7°26	8°11	7°42	22°54	22°22									
W17	17 38 52	25°18'00	6♋33	16°9	7°2	17°23	23°44	17°18	24°43	6°56	7°25	8°8	7°39	23°1	22°27									
T 18	17 42 49	26°15'16	20°26	16°26	8°15	18°1	23°54	17°13	24°40	6°55	7°24	8°7	7°36	23°8	22°32									
F 19	17 46 45	27°12'33	3♃36	16°38	9°28	18°40	24°4	17°9	24°38	6°53	7°23	8°7	7°33	23°14	22°37									
S 20	17 50 42	28°9'49	17°5	16°46	10°41	19°18	24°14	17°5	24°35	6°52	7°22	8°7	7°30	23°21	22°43									
S 21	17 54 38	29°7'05	29°55	16°R49	11°54	19°57	24°24	17°0	24°33	6°50	7°21	8°5	7°26	23°28	22°48									
M22	17 58 35	0♌4'21	12♌31	16°47	13°7	20°35	24°34	16°56	24°30	6°48	7°20	8°2	7°23	23°35	22°53									
T 23	18 2 31	1°1'36	24°56	16°41	14°21	21°14	24°44	16°52	24°28	6°47	7°19	7°55	7°20	23°41	22°58									
W24	18 6 28	1°58'52	7II10	16°31	15°34	21°52	24°53	16°48	24°26	6°45	7°19	7°46	7°17	23°48	23°4									
T 25	18 10 24	2°56'07	19°18	16°16	16°47	22°31	25°2	16°44	24°23	6°44	7°18	7°34	7°14	23°55	23°9									
F 26	18 14 21	3°53'22	1♌19	15°57	18°0	23°9	25°12	16°39	24°21	6°42	7°17	7°21	7°11	24°1	23°14									
S 27	18 18 18	4°50'36	13°15	15°35	19°13	23°48	25°21	16°35	24°18	6°40	7°16	7°7	7°7	24°8	23°19									
S 28	18 22 14	5°47'51	25°8	15°9	20°26	24°26	25°30	16°31	24°16	6°39	7°16	6°53	7°4	24°15	23°24									
M29	18 26 11	6°45'05	6♌58	14°40	21°40	25°5	25°39	16°27	24°14	6°37	7°15	6°42	7°1	24°22	23°30									
T 30	18 30 7	7♋42'18	18♌49	14♋9	22II53	25♋43	25♃47	16♂23	24♂11	6♁36	7♁14	6♃32	6♃58	24♌28	23II35									

Day	☉	☽	♀	♂	♄	♃	♅	♁	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	decl	lat	
M 1	21n57	25n12	4n48	25n32	2n7	15n45	1s24	24n21	1n6	7n2	1s10	21s20	1n37	23s31	0s9	22s11	1n3	1n49	16n46	3n43	3n22	26n43	18n1	5s8
T 2	22 5 21	53 4 21	25 26	2 3 16	6 1 22	24 19	1 6 7	7 10	21 19	1 37	23 31	0 9	22 11	1 3	1 49	16 46	3 41	3 21	26 42	18 1	5 8			
W 3	22 13 17	41 3 44	25 18	1 58	16 27	1 20	24 17	1 6 7	11 10	21 19	1 37	23 31	0 9	22 11	1 3	1 49	16 45	3 39	3 20	26 41	18 2	5 8		
T 4	22 21 12	45 2 56	25 10	1 52	16 48	1 19	24 14	1 6 7	15 10	21 19	1 37	23 30	0 9	22 12	1 3	1 49	16 45	3 38	3 18	26 40	18 2	5 8		
F 5	22 28 7	15 1 59	25 0	1 46	17 9	1 17	24 12	1 7 7	19 10	21 18	1 37	23 30	0 9	22 12	1 3	1 49	16 45	3 38	3 17	26 38	18 2	5 8		
S 6	22 35 1 21	0 55	24 49	1 39	17 29	1 15	24 9	1 7 7	23 11	21 18	1 37	23 30	0 9	22 12	1 3	1 49	16 44	3 38	3 16	26 37	18 3	5 8		
S 7	22 41 4s46	0s13	24 37	1 31	17 48	1 13	24 6	1 7 7	27 11	21 18	1 37	23 30	0 9	22 12	1 3	1 49	16 44	3 38	3 15	26 36	18 3	5 8		
M 8	22 47 10 54	1 22	24 23	1 22	18 7	1 12	24 3	1 7 7	31 11	21 17	1 37	23 30	0 9	22 12	1 3	1 49	16 44	3 38	3 13	26 34	18 3	5 8		
T 9	22 52 16 43	2 29	24 10	1 12	18 26	1 10	24 0	1 7 7	35 11	21 17	1 37	23 30	0 9	22 12	1 3	1 49	16 43	3 37	3 12	26 33	18 3	5 8		
W10	22 57 21 51	3 30	23 55	1 2	18 44	1 8	23 56	1 7 7	39 11	21 17	1 37	23 30	0 9	22 12	1 3	1 49	16 43	3 35	3 11	26 32	18 4	5 8		
T 11	23 2 25 47	4 18	23 40	0 51	19 1	1 6	23 52	1 7 7	43 11	21 16	1 37	23 30	0 9	22 12	1 3	1 49	16 42	3 32	3 10	26 30	18 4	5 8		
F 12	23 6 28 2 4	4 49	23 24	0 39	19 19	1 4	23 48	1 7 7	47 11	21 16	1 37	23 30	0 9	22 12	1 3	1 49	16 42	3 28	3 8	26 29	18 4	5 9		
S 13	23 10 28 15	5 1 23	7 0 27	19 35	1 2	23 44	1 8 7	51 12	21 16	1 37	23 30	0 9	22 12	1 3	1 49	16 41	3 24	3 7	26 28	18 4	5 9			
S 14	23 14 26 21	4 52	22 51	0 14	19 51	1 0	23 40	1 8 7	55 12	21 15	1 36	23 30	0 9	22 12	1 3	1 49	16 41	3 20	3 6	26 26	18 5	5 9		
M15	23 17 22 36	4 23	22 34	0 120	7 0 58	23 36	1 8 7	58 12	21 15	1 36	23 30	0 9	22 12	1 3	1 49	16 41	3 17	3 5	26 25	18 5	5 9			
T 16	23 19 17 31	3 37	22 17	0s14	20 22	0 55	23 31	1 8 8	2 12	21 15	1 36	23 29	0 9	22 12	1 3	1 48	16 40	3 15	3 3	26 24	18 5	5 9		
W17	23 22 11 34	2 39	22 0	0 28	20 37	0 53	23 26	1 8 8	6 12	21 14	1 36	23 29	0 9	22 13	1 3	1 48	16 40	3 14	3 2	26 22	18 5	5 9		
T 18	23 23 5 12	1 32	21 43	0 44	20 51	0 51	23 21	1 8 8	9 12	21 14	1 36	23 29	0 9	22 13	1 3	1 48	16 39	3 13	3 1	26 21	18 5	5 9		
F 19	23 25 1n14	0 22	21 26	0 59	21 4	0 49	23 16	1 8 8	13 13	21 14	1 36	23 29	0 9	22 13	1 3	1 48	16 39	3 13	3 0	26 19	18 6	5 9		
S 20	23 26 7 26	0n47	21 9	1 15	21 17	0 47	23 11	1 8 8	16 13	21 13	1 36	23 29	0 9	22 13	1 3	1 48	16 38	3 13	2 58	26 18	18 6	5 9		
S 21	23 26 13 12	1 53	20 52	1 31	21 29	0 44	23 5	1 8 8	20 13	21 13	1 36	23 29	0 9	22 13	1 3	1 48	16 38	3 13	2 57	26 17	18 6	5 9		
M22	23 27 18 19	2 51	20 36	1 48	21 41	0 42	23 0	1 8 8	23 13	21 13	1 36	23 29	0 9	22 13	1 3	1 47	16 37	3 11	2 56	26 15	18 6	5 9		
T 23	23 26 22 34	3 40	20 21	2 4	21 52	0 40	22 54	1 9 8	26 13	21 13	1 36	23 29	0 9	22 13	1 3	1 47	16 37	3 9	2 55	26 14	18 6	5 10		
W24	23 26 25 45	4 18	20 6	2 21	22 3	0 37	22 48	1 9 8	30 14	21 12	1 35	23 29	0 9	22 13	1 3	1 47	16 36	3 5	2 53	26 12	18 6	5 10		
T 25	23 25 27 44	4 45	19 51	2 37	22 13	0 35	22 41	1 9 8	33 14	21 12	1 35	23 29	0 9	22 13	1 3	1 47	16 36	3 0	2 52	26 11	18 7	5 10		
F 26	23 23 28 24	4 58	19 38	2 53	22 22	0 32	22 35	1 9 8	36 14	21 12	1 35	23												

SWISS EPHEMERIS for the year 1987

JULY 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
W 1	18 34 4	8°39'32	0°43'	13°R35	24°II 6	26°21	25°56	16°R19	24°R 9	6°R34	7°R14	6°R26	6°Y55	24°235	23°II40
T 2	18 38 0	9°36'44	12°43'	13°00	25°19	27° 0	26° 5	16°R15	24°R 6	6°R32	7°M13	6°Y22	6°51	24°42	23°45
F 3	18 41 57	10°33'57	24°54'	12°24	26°33	27°38	26°13	16°11	24° 4	6°31	7°13	6°21	6°48	24°48	23°50
S 4	18 45 53	11°31'09	7°42'20	11°47	27°46	28°17	26°21	16° 8	24° 2	6°29	7°12	6°21	6°45	24°55	23°55
S 5	18 49 50	12°28'21	20° 7	11°11	28°59	28°55	26°29	16° 4	24° 0	6°27	7°12	6°20	6°42	25° 2	24° 0
M 6	18 53 47	13°25'32	3°M19	10°35	0°513	29°33	26°37	16° 0	23°57	6°26	7°11	6°19	6°39	25° 9	24° 5
T 7	18 57 43	14°22'43	16°59	10° 1	1°26	0°12	26°45	15°57	23°55	6°24	7°11	6°16	6°36	25°15	24°11
W 8	19 1 40	15°19'55	1°R 9	9°29	2°39	0°50	26°53	15°53	23°53	6°23	7°11	6°11	6°32	25°22	24°16
T 9	19 5 36	16°17'06	15°47	8°59	3°53	1°28	27° 0	15°49	23°51	6°21	7°10	6° 3	6°29	25°29	24°21
F 10	19 9 33	17°14'17	0°R48	8°33	5° 6	2° 6	27° 7	15°46	23°48	6°19	7°10	5°54	6°26	25°35	24°26
S 11	19 13 29	18°11'28	16° 4	8°11	6°20	2°45	27°15	15°43	23°46	6°18	7°10	5°43	6°23	25°42	24°31
S 12	19 17 26	19° 8'39	1°R23	7°52	7°33	3°23	27°22	15°39	23°44	6°16	7°10	5°33	6°20	25°49	24°36
M13	19 21 23	20° 5'51	16°35	7°38	8°47	4° 1	27°29	15°36	23°42	6°15	7° 9	5°25	6°17	25°56	24°40
T 14	19 25 19	21° 3'02	1°R28	7°29	10° 0	4°40	27°35	15°33	23°40	6°13	7° 9	5°19	6°13	26° 2	24°45
W15	19 29 16	22° 0'15	15°58	7°D24	11°14	5°18	27°42	15°30	23°38	6°12	7° 9	5°16	6°10	26° 9	24°50
T 16	19 33 12	22°57'27	29°59	7°25	12°27	5°56	27°48	15°27	23°36	6°10	7° 9	5°D14	6° 7	26°16	24°55
F 17	19 37 9	23°54'41	13°Y34	7°32	13°41	6°34	27°55	15°24	23°34	6° 9	7° 9	5°15	6° 4	26°22	25° 0
S 18	19 41 5	24°51'55	26°44	7°43	14°54	7°12	28° 1	15°21	23°32	6° 7	7°D 9	5°R15	6° 1	26°29	25° 5
S 19	19 45 2	25°49'10	9°R32	8° 1	16° 8	7°51	28° 7	15°18	23°30	6° 6	7° 9	5°14	5°57	26°36	25°10
M20	19 48 58	26°46'25	22° 2	8°24	17°22	8°29	28°13	15°15	23°28	6° 4	7° 9	5°11	5°54	26°43	25°14
T 21	19 52 55	27°43'41	4°II18	8°52	18°35	9° 7	28°18	15°12	23°26	6° 3	7° 9	5° 6	5°51	26°49	25°19
W22	19 56 52	28°40'58	16°25	9°27	19°49	9°45	28°24	15°10	23°24	6° 1	7° 9	4°58	5°48	26°56	25°24
T 23	20 0 48	29°38'16	28°24	10° 6	21° 3	10°24	28°29	15° 7	23°22	6° 0	7° 9	4°48	5°45	27° 3	25°28
F 24	20 4 45	0°R35'35	10°E19	10°52	22°16	11° 2	28°34	15° 5	23°20	5°58	7°10	4°37	5°42	27°10	25°33
S 25	20 8 41	1°32'54	22°11	11°43	23°30	11°40	28°39	15° 2	23°19	5°57	7°10	4°25	5°38	27°16	25°38
S 26	20 12 38	2°30'14	4°R 2	12°39	24°44	12°18	28°44	15° 0	23°17	5°55	7°10	4°14	5°35	27°23	25°42
M27	20 16 34	3°27'34	15°54	13°41	25°58	12°56	28°49	14°58	23°15	5°54	7°10	4° 4	5°32	27°30	25°47
T 28	20 20 31	4°24'55	27°48	14°47	27°11	13°35	28°53	14°56	23°14	5°53	7°11	3°56	5°29	27°36	25°51
W29	20 24 27	5°22'17	9°M46	16° 0	28°25	14°13	28°57	14°54	23°12	5°51	7°11	3°51	5°26	27°43	25°56
T 30	20 28 24	6°19'39	21°51	17°17	29°39	14°51	29° 1	14°52	23°10	5°50	7°11	3°48	5°23	27°50	26° 0
F 31	20 32 21	7°17'01	4°R 7	18°39	0°L53	15°29	29°Y 5	14°R50	23°R 9	5°R49	7°M12	3°D47	5°Y19	27°E56	26°II 4

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
W 1	23n10	13n58	2n56	18n44	4s 3	22n58	0s20	22n 1	1n 9	8n51	1s15	21s10	1n35	23s28	0s 9
T 2	23 6	8 39	2 1	18 36	4 14	23 4	0 18	21 54	1 9	8 54	1 15	21 10	1 34	23 28	0 9
F 3	23 1	2 57	1 0	18 30	4 23	23 9	0 15	21 46	1 9	8 57	1 15	21 10	1 34	23 28	0 9
S 4	22 57	3s 0	0s 5	18 24	4 32	23 13	0 13	21 38	1 9	9 0	1 16	21 10	1 34	23 28	0 9
S 5	22 51	8 59	1 12	18 21	4 39	23 16	0 10	21 31	1 9	9 3	1 16	21 9	1 34	23 28	0 9
M 6	22 46	14 46	2 17	18 18	4 44	23 19	0 8	21 23	1 9	9 5	1 16	21 9	1 34	23 28	0 9
T 7	22 40	20 4	3 17	18 17	4 48	23 21	0 5	21 14	1 9	9 8	1 16	21 9	1 34	23 28	0 9
W 8	22 34	24 25	4 7	18 17	4 50	23 22	0 3	21 6	1 9	9 10	1 16	21 9	1 34	23 27	0 9
T 9	22 27	27 22	4 42	18 18	4 50	23 23	0 2	20 58	1 9	9 13	1 17	21 8	1 33	23 27	0 9
F 10	22 20	28 26	5 0	18 21	4 49	23 23	0n 2	20 49	1 9	9 15	1 17	21 8	1 33	23 27	0 9
S 11	22 12	27 22	4 56	18 25	4 47	23 22	0 4	20 41	1 9	9 18	1 17	21 8	1 33	23 27	0 9
S 12	22 5	24 16	4 31	18 30	4 43	23 21	0 7	20 32	1 9	9 20	1 17	21 8	1 33	23 27	0 9
M13	21 56	19 29	3 47	18 36	4 37	23 18	0 9	20 23	1 9	9 22	1 18	21 8	1 33	23 27	0 9
T 14	21 48	13 35	2 49	18 44	4 31	23 16	0 12	20 14	1 9	9 24	1 18	21 7	1 33	23 27	0 9
W15	21 39	7 5	1 40	18 52	4 23	23 12	0 14	20 4	1 9	9 27	1 18	21 7	1 32	23 27	0 9
T 16	21 29	0 26	0 28	19 1	4 14	23 8	0 16	19 55	1 10	9 29	1 18	21 7	1 32	23 27	0 9
F 17	21 20	6n 2	0n44	19 11	4 4	23 3	0 19	19 45	1 10	9 31	1 18	21 7	1 32	23 27	0 9
S 18	21 10	12 2	1 51	19 21	3 53	22 58	0 21	19 36	1 10	9 33	1 19	21 7	1 32	23 26	0 9
S 19	20 59	17 22	2 51	19 32	3 41	22 51	0 24	19 26	1 10	9 35	1 19	21 7	1 32	23 26	0 9
M20	20 48	21 50	3 41	19 43	3 28	22 45	0 26	19 16	1 10	9 36	1 19	21 7	1 32	23 26	0 9
T 21	20 37	25 16	4 20	19 54	3 15	22 37	0 28	19 6	1 10	9 38	1 19	21 6	1 31	23 26	0 9
W22	20 26	27 30	4 47	20 5	3 2	22 29	0 30	18 56	1 9	9 40	1 20	21 6	1 31	23 26	0 9
T 23	20 14	28 27	5 1	20 16	2 48	22 20	0 33	18 45	1 9	9 42	1 20	21 6	1 31	23 26	0 9
F 24	20 2	28 3	5 1	20 27	2 33	22 10	0 35	18 35	1 9	9 43	1 20	21 6	1 31	23 26	0 9
S 25	19 49	26 21	4 48	20 37	2 19	22 0	0 37	18 24	1 9	9 45	1 20	21 6	1 31	23 26	0 9
S 26	19 36	23 30	4 23	20 47	2 4	21 49	0 39	18 13	1 9	9 46	1 21	21 6	1 30	23 26	0 9
M27	19 23	19 40	3 47	20 56	1 49	21 38	0 41	18 3	1 9	9 48	1 21	21 6	1 30	23 26	0 9
T 28	19 10	15 3	3 0	21 4	1 34	21 26	0 43	17 52	1 9	9 49	1 21	21 6	1 30	23 26	0 9
W29	18 56	9 50	2 5	21 10	1 19	21 13	0 45	17 40	1 9	9 50	1 21	21 6	1 30	23 26	0 9
T 30	18 42	4 12	1 3	21 15	1 5	21 0	0 47	17 29	1 9	9 51	1 22	21 6	1 30	23 25	0 9
F 31	18n27	1s40	0s 2	21n19	0s50	20n46	0n49	17n18	1n 9	9n53	1s22	21s 6	1n30	23s25	0s 9

Julian Day Number = 2446977.5, Delta T = 55.57 sec
 Ecliptic obliquity = 23°26'36, Nutation = - 0°00'01
 Ayanamsha: Fagan/Bradley = 24°33'57, Lahiri = 23°40'57

SWISS EPHEMERIS for the year 1987

AUGUST 1987

00:00 UT

Main astronomical table with columns for Day, Sid.t, and various celestial coordinates and symbols.

Detailed astronomical table with columns for Day, decl, lat, and various celestial coordinates and symbols.

Julian Day Number = 2447008.5, Delta T = 55.61 sec

Ecliptic obliquity = 23°26'36", Nutation = - 0°00'01"

Ayanamsha: Fagan/Bradley = 24°34'01", Lahiri = 23°41'01"

SWISS EPHEMERIS for the year 1987

SEPTEMBER 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	22 38 30	8 ^m 2'28	6 ^h 1	18 ^m 52	10 ^m 26	5 ^m 50	29°R29	14 ^m 40	22°R43	5°R18	7 ^m 43	2°R35	3 ^Y 38	1 ^Ω 31	27 ^{II} 59
W 2	22 42 27	9° 0'31	19°55	20°37	11°40	6°28	29°Y27	14°41	22°D43	5 ^Ω 18	7°44	2°Y35	3°34	1°38	28° 2
T 3	22 46 23	9°58'36	4 ^Ω 5	22°21	12°55	7° 7	29°24	14°42	22°R43	5°17	7°46	2°33	3°31	1°45	28° 4
F 4	22 50 20	10°56'41	18°42	24° 3	14° 9	7°45	29°21	14°44	22°43	5°17	7°47	2°31	3°28	1°51	28° 7
S 5	22 54 17	11°54'49	3 ^Ω 30	25°45	15°24	8°23	29°18	14°45	22°43	5°16	7°49	2°29	3°25	1°58	28° 9
S 6	22 58 13	12°52'57	18°25	27°25	16°38	9° 1	29°15	14°47	22°44	5°16	7°50	2°26	3°22	2° 5	28°12
M 7	23 2 10	13°51'08	3 ^Ω 21	29° 3	17°53	9°40	29°11	14°49	22°44	5°16	7°52	2°24	3°19	2°11	28°14
T 8	23 6 6	14°49'19	18° 8	0 ^Ω 41	19° 7	10°18	29° 8	14°51	22°44	5°15	7°53	2°23	3°15	2°18	28°16
W 9	23 10 3	15°47'33	2°Y40	2°18	20°22	10°56	29° 4	14°53	22°44	5°15	7°55	2°D22	3°12	2°25	28°18
T 10	23 13 59	16°45'48	16°50	3°53	21°36	11°34	29° 0	14°55	22°45	5°15	7°57	2°23	3° 9	2°32	28°20
F 11	23 17 56	17°44'06	0 ^Ω 36	5°27	22°51	12°12	28°55	14°57	22°45	5°14	7°58	2°24	3° 6	2°38	28°22
S 12	23 21 52	18°42'25	13°56	7° 0	24° 5	12°51	28°51	14°59	22°46	5°14	8° 0	2°25	3° 3	2°45	28°24
S 13	23 25 49	19°40'47	26°52	8°32	25°20	13°29	28°47	15° 1	22°46	5°14	8° 2	2°26	3° 0	2°52	28°26
M14	23 29 46	20°39'11	9 ^{II} 27	10° 3	26°34	14° 7	28°42	15° 4	22°47	5°14	8° 4	2°26	2°56	2°58	28°28
T 15	23 33 42	21°37'37	21°45	11°33	27°49	14°46	28°37	15° 6	22°48	5°14	8° 6	2°R27	2°53	3° 5	28°30
W16	23 37 39	22°36'05	3 ^Ω 49	13° 1	29° 3	15°24	28°32	15° 9	22°48	5°14	8° 7	2°26	2°50	3°12	28°32
T 17	23 41 35	23°34'35	15°45	14°29	0 ^Ω 18	16° 2	28°27	15°12	22°49	5°D14	8° 9	2°26	2°47	3°18	28°33
F 18	23 45 32	24°33'08	27°37	15°55	1°33	16°41	28°21	15°14	22°50	5°14	8°11	2°25	2°44	3°25	28°35
S 19	23 49 28	25°31'42	9 ^Ω 28	17°20	2°47	17°19	28°16	15°17	22°51	5°14	8°13	2°24	2°40	3°32	28°36
S 20	23 53 25	26°30'19	21°23	18°44	4° 2	17°57	28°10	15°20	22°52	5°14	8°15	2°23	2°37	3°39	28°38
M21	23 57 21	27°28'57	3 ^{II} 25	20° 7	5°17	18°36	28° 4	15°23	22°53	5°14	8°17	2°22	2°34	3°45	28°39
T 22	0 1 18	28°27'38	15°35	21°28	6°31	19°14	27°58	15°26	22°54	5°14	8°19	2°22	2°31	3°52	28°40
W23	0 5 15	29°26'20	27°56	22°48	7°46	19°52	27°52	15°29	22°55	5°14	8°21	2°D22	2°28	3°59	28°41
T 24	0 9 11	0 ^Ω 25'05	10 ^Ω 29	24° 7	9° 0	20°31	27°46	15°33	22°56	5°15	8°23	2°22	2°25	4° 5	28°42
F 25	0 13 8	1°23'51	23°16	25°25	10°15	21° 9	27°39	15°36	22°57	5°15	8°25	2°22	2°21	4°12	28°43
S 26	0 17 4	2°22'40	6 ^{II} 15	26°41	11°30	21°47	27°33	15°40	22°58	5°15	8°27	2°R22	2°18	4°19	28°44
S 27	0 21 1	3°21'30	19°28	27°55	12°44	22°26	27°26	15°43	22°59	5°15	8°29	2°22	2°15	4°25	28°45
M28	0 24 57	4°20'22	2 ^Ω 56	29° 8	13°59	23° 4	27°19	15°47	23° 1	5°16	8°31	2°22	2°12	4°32	28°46
T 29	0 28 54	5°19'16	16°36	0 ^{II} 20	15°14	23°43	27°12	15°50	23° 2	5°16	8°33	2°22	2° 9	4°39	28°47
W30	0 32 50	6°18'12	0 ^Ω 30	1 ^{II} 29	16°28	24°21	27°Y 5	15°54	23° 4	5 ^Ω 16	8 ^{II} 35	2°D21	2°Y 6	4°46	28°II47

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	8n33	25s56	4s41	5n26	1n 7	8n58	1n25	10n24	1n 7	9n54	1s30	21s11	1n23	23s24	0s10	22s19	1n 1	1n 3	15n58	1n 2	1n27	24n16	17n54	5s31
W 2	8 12	28 10	5 7	4 40	1 2	8 30	1 25	10 10	1 7	9 53	1 30	21 12	1 23	23 24	0 10	22 19	1 1	1 2	15 57	1 2	1 25	24 14	17 54	5 32
T 3	7 50	28 37	5 14	3 53	0 56	8 1	1 25	9 56	1 7	9 51	1 30	21 12	1 23	23 24	0 10	22 19	1 1	1 1	15 57	1 1	1 24	24 12	17 53	5 32
F 4	7 28	27 7	5 2	3 7	0 49	7 33	1 25	9 42	1 6	9 50	1 30	21 12	1 22	23 24	0 10	22 19	1 1	1 1	15 57	1 0	1 23	24 10	17 53	5 33
S 5	7 6	23 45	4 30	2 21	0 43	7 4	1 25	9 27	1 6	9 49	1 31	21 13	1 22	23 24	0 10	22 19	1 1	1 0	15 56	0 59	1 21	24 8	17 53	5 33
S 6	6 43	18 47	3 39	1 35	0 36	6 35	1 25	9 13	1 6	9 48	1 31	21 13	1 22	23 24	0 10	22 19	1 1	0 59	15 56	0 58	1 20	24 6	17 52	5 34
M 7	6 21	12 40	2 33	0 49	0 29	6 5	1 25	8 58	1 6	9 46	1 31	21 13	1 22	23 24	0 10	22 19	1 1	0 58	15 55	0 57	1 19	24 4	17 52	5 34
T 8	5 59	5 53	1 18	0 4	0 22	5 36	1 24	8 43	1 6	9 45	1 31	21 14	1 22	23 24	0 10	22 19	1 1	0 57	15 55	0 57	1 18	24 2	17 51	5 35
W 9	5 36	1n 5	0n 2	0s41	0 15	5 6	1 24	8 29	1 6	9 43	1 31	21 14	1 21	23 24	0 10	22 19	1 1	0 56	15 54	0 57	1 16	24 0	17 51	5 35
T 10	5 14	7 50	1 19	1 26	0 8	4 37	1 24	8 14	1 6	9 41	1 32	21 15	1 21	23 24	0 10	22 19	1 1	0 55	15 54	0 57	1 15	23 58	17 50	5 36
F 11	4 51	14 1	2 30	2 10	0 0	4 7	1 23	7 59	1 5	9 40	1 32	21 15	1 21	23 24	0 10	22 19	1 1	0 54	15 53	0 57	1 14	23 56	17 50	5 36
S 12	4 28	19 22	3 30	2 54	0s 7	3 37	1 23	7 45	1 5	9 38	1 32	21 16	1 21	23 24	0 10	22 19	1 1	0 53	15 53	0 58	1 13	23 54	17 49	5 37
S 13	4 5	23 38	4 18	3 37	0 15	3 7	1 22	7 30	1 5	9 36	1 32	21 16	1 21	23 24	0 10	22 20	1 1	0 52	15 52	0 58	1 11	23 52	17 49	5 37
M14	3 42	26 40	4 51	4 20	0 23	2 36	1 21	7 15	1 5	9 34	1 32	21 17	1 20	23 24	0 10	22 20	1 1	0 51	15 52	0 58	1 10	23 50	17 48	5 38
T 15	3 19	28 22	5 11	5 2	0 31	2 6	1 21	7 0	1 5	9 33	1 32	21 17	1 20	23 24	0 10	22 20	1 1	0 50	15 52	0 58	1 9	23 48	17 48	5 38
W16	2 56	28 40	5 16	5 44	0 38	1 36	1 20	6 45	1 5	9 31	1 33	21 17	1 20	23 24	0 10	22 20	1 1	0 49	15 51	0 58	1 8	23 46	17 47	5 39
T 17	2 33	27 37	5 8	6 25	0 46	1 5	1 19	6 30	1 4	9 29	1 33	21 18	1 20	23 24	0 10	22 20	1 1	0 48	15 51	0 58	1 6	23 44	17 47	5 39
F 18	2 10	25 19	4 47	7 6	0 54	0 35	1 18	6 15	1 4	9 27	1 33	21 18	1 20	23 24	0 10	22 20	1 1	0 47	15 50	0 58	1 5	23 42	17 46	5 40
S 19	1 47	21 57	4 13	7 46	1 2	0 4	1 17	6 0	1 4	9 24	1 33	21 19	1 19	23 25	0 10	22 20	1 1	0 46	15 50	0 57	1 4	23 40	17 46	5 40
S 20	1 23	17 39	3 28	8 25	1 10	0s26	1 16	5 45	1 4	9 22	1 33	21 19	1 19	23 25	0 10	22 20	1 1	0 46	15 50	0 57	1 3	23 38	17 45	5 41
M21	1 0	12 39	2 34	9 4	1 18	0 57	1 15	5 30	1 4	9 20	1 33	21 20	1 19	23 25	0 10	22 20	1 1	0 45	15 49	0 57	1 1	23 36	17 45	5 41
T 22	0 37	7 6	1 32	9 42	1 25	1 27	1 14	5 14	1 4	9 18	1 34	21 20	1 19	23 25	0 10	22 20	1 1	0 44	15 49	0 56	1 0	23 34	17 44	5 42
W23	0 13	1 12	0 25	10 19	1 33	1 58	1 13	4 59	1 3	9 15	1 34	21 21	1 19	23 25	0 10	22 20	1 0	0 43	15 48	0 56	0 59	23 32	17 44	5 43
T 24	0s10	4s51	0s45	10 55	1 41	2 29	1 11	4 44	1 3	9 13	1 34	21 22	1 18	23 25	0 10	22 20	1 0	0 42	15 48	0 56	0 58	23 29	17 43	5 43
F 25	0 33	10 48	1 53	11 31	1 48	2 59	1 10	4 29	1 3	9 11	1 34	21 22	1 18	23 25	0 10	22 20	1 0	0 41	15 48	0 56	0 56	23 27	17 43	5 44
S 26	0 57	16 23	2 57	12 5	1 56	3 30	1 9	4 13	1 3	9 8	1 34	21 23	1 18	23 25	0 10	22 20	1 0	0 40	15 47	0 56	0 55	23 25	17 42	5 44
S 27	1 20	21 20	3 53	12 39	2 3	4 0	1 7	3 58	1 3	9 6	1 34	21 23	1 18	23 25	0 10	22 20	1 0	0 39	15 47	0 56	0 54	23 23	17 42	5 45
M28	1 44	25 16	4 36	13 12	2 10	4 30	1 6	3 43	1 3	9 3	1 34	21 24	1 18	23 25	0 10	22 20	1 0	0 38	15 47	0 56	0 52	23 21	17 41	5 45
T 29	2 7	27 50	5 5	13 44	2 17	5 1	1 4	3 27	1 2	9 1	1 34	21 24	1 18	23 25	0 10	22 20	1 0	0 37	15 46	0 56	0 51	23 19	17 41	5 46</

SWISS EPHEMERIS for the year 1987

OCTOBER 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	0 36 47	7♁17'10	14♁37	2♁37	17♁43	24♁59	26°R58	15♁58	23♁ 5	5♁17	8♁37	2°Y21	2°Y 2	4♁52	28♁48
F 2	0 40 44	8°16'09	28°53	3°42	18°58	25°38	26°Y51	16° 2	23° 7	5°17	8°40	2°22	1°59	4°59	28°48
S 3	0 44 40	9°15'10	13♁18	4°45	20°12	26°16	26°43	16° 6	23° 8	5°18	8°42	2°22	1°56	5° 6	28°49
S 4	0 48 37	10°14'12	27°48	5°46	21°27	26°55	26°36	16°10	23°10	5°18	8°44	2°23	1°53	5°12	28°49
M 5	0 52 33	11°13'16	12♁17	6°45	22°42	27°33	26°28	16°14	23°11	5°19	8°46	2°23	1°50	5°19	28°49
T 6	0 56 30	12°12'23	26°41	7°40	23°57	28°12	26°21	16°19	23°13	5°20	8°48	2°R24	1°46	5°26	28°50
W 7	1 0 26	13°11'31	10°Y54	8°32	25°11	28°50	26°13	16°23	23°15	5°20	8°51	2°24	1°43	5°32	28°50
T 8	1 4 23	14°10'41	24°52	9°22	26°26	29°29	26° 5	16°27	23°17	5°21	8°53	2°23	1°40	5°39	28°R50
F 9	1 8 19	15° 9'53	8♁31	10° 7	27°41	0♁ 7	25°58	16°32	23°18	5°22	8°55	2°22	1°37	5°46	28°50
S 10	1 12 16	16° 9'08	21°50	10°49	28°55	0°46	25°50	16°36	23°20	5°22	8°57	2°20	1°34	5°53	28°49
S 11	1 16 12	17° 8'24	4♁47	11°26	0♁10	1°24	25°42	16°41	23°22	5°23	9° 0	2°18	1°31	5°59	28°49
M12	1 20 9	18° 7'43	17°25	11°58	1°25	2° 3	25°34	16°46	23°24	5°24	9° 2	2°16	1°27	6° 6	28°49
T 13	1 24 6	19° 7'05	29°44	12°25	2°39	2°42	25°26	16°50	23°26	5°25	9° 4	2°14	1°24	6°13	28°49
W14	1 28 2	20° 6'28	11♁50	12°47	3°54	3°20	25°18	16°55	23°28	5°26	9° 7	2°13	1°21	6°19	28°48
T 15	1 31 59	21° 5'54	23°47	13° 2	5° 9	3°59	25°10	17° 0	23°30	5°26	9° 9	2°D13	1°18	6°26	28°48
F 16	1 35 55	22° 5'23	5♁39	13°11	6°23	4°37	25° 2	17° 5	23°32	5°27	9°11	2°14	1°15	6°33	28°47
S 17	1 39 52	23° 4'53	17°31	13°R12	7°38	5°16	24°54	17°10	23°35	5°28	9°14	2°15	1°11	6°39	28°46
S 18	1 43 48	24° 4'26	29°27	13° 6	8°53	5°55	24°45	17°15	23°37	5°29	9°16	2°17	1° 8	6°46	28°45
M19	1 47 45	25° 4'01	11♁37	12°52	10° 8	6°33	24°37	17°20	23°39	5°30	9°18	2°18	1° 5	6°53	28°45
T 20	1 51 41	26° 3'38	23°51	12°29	11°22	7°12	24°29	17°26	23°41	5°31	9°21	2°19	1° 2	7° 0	28°44
W21	1 55 38	27° 3'17	6♁24	11°57	12°37	7°51	24°21	17°31	23°44	5°32	9°23	2°R20	0°59	7° 6	28°43
T 22	1 59 35	28° 2'58	19°15	11°17	13°52	8°29	24°13	17°36	23°46	5°33	9°25	2°19	0°56	7°13	28°42
F 23	2 3 31	29° 2'42	2♁23	10°28	15° 6	9° 8	24° 5	17°42	23°49	5°35	9°28	2°16	0°52	7°20	28°40
S 24	2 7 28	0♁ 2'27	15°48	9°31	16°21	9°47	23°57	17°47	23°51	5°36	9°30	2°13	0°49	7°26	28°39
S 25	2 11 24	1° 2'15	29°27	8°27	17°36	10°26	23°49	17°53	23°54	5°37	9°33	2° 8	0°46	7°33	28°38
M26	2 15 21	2° 2'04	13♁19	7°17	18°51	11° 4	23°41	17°58	23°56	5°38	9°35	2° 4	0°43	7°40	28°36
T 27	2 19 17	3° 1'55	27°20	6° 3	20° 5	11°43	23°33	18° 4	23°59	5°39	9°38	1°59	0°40	7°46	28°35
W28	2 23 14	4° 1'48	11♁27	4°46	21°20	12°22	23°25	18°10	24° 1	5°41	9°40	1°56	0°37	7°53	28°33
T 29	2 27 10	5° 1'43	25°36	3°30	22°35	13° 1	23°17	18°15	24° 4	5°42	9°42	1°54	0°33	8° 0	28°32
F 30	2 31 7	6° 1'39	9♁46	2°16	23°49	13°39	23°10	18°21	24° 7	5°43	9°45	1°D54	0°30	8° 7	28°30
S 31	2 35 4	7♁ 1'36	23♁56	1♁ 7	25♁ 4	14♁18	23°Y 2	18♁27	24♁ 9	5♁45	9♁47	1°Y55	0°Y27	8♁13	28♁28

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	2s54	27s46	5s10	14s44	2s31	6s 1	1n 1	2n56	1n 2	8n55	1s35	21s25	1n17	23s25	0s10	22s20	1n 0	0n35	15n45	0n56	0n49	23n15	17n39	5s47
F 2	3 17 25	1 4 44	15 13	2 37	6 31	0 59	2 41	1 2	8 53	1 35	21 26	1 17	23 25	0 10	22 20	1 0	0 34	15 45	0 56	0 47	23 13	17 39	5 47	
S 3	3 40 20	39 4 0	15 40	2 43	7 1	0 58	2 25	1 2	8 50	1 35	21 27	1 17	23 25	0 10	22 20	1 0	0 33	15 45	0 57	0 46	23 11	17 38	5 48	
S 4	4 3 15	4 3 0	16 6	2 49	7 30	0 56	2 10	1 1	8 47	1 35	21 27	1 17	23 26	0 10	22 20	1 0	0 32	15 45	0 57	0 45	23 8	17 38	5 48	
M 5	4 26 8	38 1 49	16 31	2 55	8 0	0 54	1 54	1 1	8 44	1 35	21 28	1 16	23 26	0 10	22 20	1 0	0 31	15 45	0 57	0 44	23 6	17 37	5 49	
T 6	4 50 1	48 0 32	16 54	3 0	8 29	0 52	1 39	1 1	8 42	1 35	21 28	1 16	23 26	0 10	22 20	1 0	0 31	15 44	0 57	0 42	23 4	17 37	5 50	
W 7	5 13 5n	2 0n47	17 16	3 4	8 58	0 50	1 23	1 1	8 39	1 35	21 29	1 16	23 26	0 10	22 20	1 0	0 30	15 44	0 57	0 41	23 2	17 36	5 50	
T 8	5 36 11	31 2 1	17 36	3 9	9 27	0 48	1 8	1 0	8 36	1 35	21 30	1 16	23 26	0 10	22 20	1 0	0 29	15 44	0 57	0 40	23 0	17 36	5 51	
F 9	5 58 17	18 3 7	17 54	3 12	9 56	0 46	0 52	1 0	8 33	1 35	21 30	1 16	23 26	0 10	22 20	1 0	0 28	15 44	0 56	0 39	22 58	17 35	5 51	
S 10	6 21 22	6 4 0	18 10	3 15	10 24	0 44	0 37	1 0	8 30	1 35	21 31	1 16	23 26	0 10	22 20	1 0	0 27	15 43	0 56	0 37	22 55	17 35	5 52	
S 11	6 44 25	41 4 40	18 24	3 18	10 52	0 42	0 21	1 0	8 27	1 35	21 32	1 15	23 26	0 10	22 20	1 0	0 26	15 43	0 55	0 36	22 53	17 34	5 52	
M12	7 7 27	55 5 5	18 36	3 20	11 21	0 40	0 6	1 0	8 25	1 35	21 32	1 15	23 26	0 10	22 20	1 0	0 25	15 43	0 54	0 35	22 51	17 34	5 53	
T 13	7 29 28	42 5 15	18 45	3 21	11 48	0 38	0s10	0 59	8 22	1 35	21 33	1 15	23 26	0 10	22 20	1 0	0 24	15 43	0 53	0 33	22 49	17 33	5 53	
W14	7 52 28	5 5 11	18 52	3 21	12 16	0 36	0 25	0 59	8 19	1 35	21 33	1 15	23 26	0 10	22 20	1 0	0 23	15 42	0 53	0 32	22 47	17 33	5 54	
T 15	8 14 26	10 4 54	18 56	3 20	12 43	0 33	0 41	0 59	8 16	1 35	21 34	1 15	23 27	0 10	22 20	1 0	0 22	15 42	0 53	0 31	22 45	17 32	5 54	
F 16	8 36 23	7 4 24	18 56	3 18	13 10	0 31	0 56	0 59	8 13	1 35	21 35	1 15	23 27	0 10	22 20	0 59	0 22	15 42	0 53	0 30	22 42	17 31	5 55	
S 17	8 58 19	7 3 42	18 54	3 14	13 36	0 29	1 12	0 58	8 10	1 35	21 35	1 14	23 27	0 10	22 20	0 59	0 21	15 42	0 54	0 28	22 40	17 31	5 55	
S 18	9 20 14	20 2 51	18 47	3 10	14 3	0 26	1 28	0 58	8 7	1 35	21 36	1 14	23 27	0 10	22 20	0 59	0 20	15 42	0 54	0 27	22 38	17 30	5 56	
M19	9 42 8	58 1 52	18 37	3 4	14 28	0 24	1 43	0 58	8 4	1 35	21 37	1 14	23 27	0 10	22 20	0 59	0 19	15 42	0 55	0 26	22 36	17 30	5 56	
T 20	10 4 3	9 0 47	18 23	2 56	14 54	0 22	1 59	0 58	8 1	1 35	21 37	1 14	23 27	0 10	22 20	0 59	0 18	15 41	0 55	0 25	22 33	17 29	5 57	
W21	10 26 2s53	0s22	18 4	2 47	15 19	0 19	2 14	0 57	7 58	1 35	21 38	1 14	23 27	0 10	22 20	0 59	0 17	15 41	0 56	0 23	22 31	17 29	5 57	
T 22	10 47 8	57 1 32	17 41	2 36	15 44	0 17	2 30	0 57	7 55	1 35	21 39	1 14	23 27	0 10	22 20	0 59	0 16	15 41	0 55	0 22	22 29	17 28	5 58	
F 23	11 8 14	46 2 37	17 13	2 23	16 8	0 14	2 45	0 57	7 52	1 35	21 39	1 14	23 27	0 10	22 20	0 59	0 16	15 41	0 54	0 21	22 27	17 28	5 58	
S 24	11 29 20	1 3 36	16 41	2 8	16 32	0 12	3 1	0 56	7 50	1 35	21 40	1 13	23 28	0 10	22 20	0 59	0 15	15 41	0 53	0 20	22 24	17 27	5 59	
S 25	11 50 24	19 4 23	16 5	1 52	16 56	0 9	3 16	0 56	7 47	1 35	21 40	1 13	23 28	0 10	22 20	0 59	0 14	15 41	0 51	0 18	22 22	17 27	6 0	
M26	12 11 27	17 4 56	15 26	1 34	17 19	0 7	3 31	0 56	7 44	1 34	21 41	1 13	23 28	0 10	22 20	0 59	0 13	15 41	0 49	0 17	22 20	17 26	6 0	
T 27	12 32 28	36 5 11	14 43	1 15	17 42	0 4	3 47	0 56	7 41	1 34	21 42	1 13	23 28	0 10	22 20	0 59	0 12	15 41	0 47	0 16	22 18	17 26	6 1	
W28	12 52 28	4 5 8	13 59	0 55	18 4	0 2	4 2	0 55	7 38	1 34	21 42	1 13	23 28	0 10	22 20	0 59	0 12	15 40	0 46	0 15	22 15	17 25	6 1	
T 29	13 12 25	42 4 46	13 14	0 35	18 26	0s 1	4 18	0 55	7 36	1 34	21 43	1 13	23 28	0 10	22 20	0 59	0 11	15 40	0 45	0 13	22 13	17 25	6 1	
F 30	13 32 21	46 4 7	12 29	0 1																				

SWISS EPHEMERIS for the year 1987

NOVEMBER 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	2 39 0	8♈ 1°35	8♈ 2	0°R 5	26♈19	14♈57	22°R54	18♈33	24♈12	5♈46	9♈50	1°Y56	0°Y24	8♈20	28°R27	
M 2	2 42 57	9° 1'36	22° 4	29♈11	27°34	15°36	22°Y47	18°39	24°15	5°48	9°52	1°58	0°21	8°27	28°II25	
T 3	2 46 53	10° 1'38	5°Y59	28°27	28°48	16°15	22°39	18°45	24°18	5°49	9°55	1°R58	0°17	8°33	28°23	
W 4	2 50 50	11° 1'42	19°46	27°55	0♈ 3	16°54	22°32	18°51	24°21	5°50	9°57	1°57	0°14	8°40	28°21	
T 5	2 54 46	12° 1'48	3♈22	27°34	1°18	17°33	22°25	18°57	24°24	5°52	9°59	1°53	0°11	8°47	28°19	
F 6	2 58 43	13° 1'55	16°44	27°D25	2°32	18°11	22°18	19° 3	24°27	5°53	10° 2	1°48	0° 8	8°53	28°16	
S 7	3 2 39	14° 2'05	29°51	27°27	3°47	18°50	22°11	19°10	24°29	5°55	10° 4	1°41	0° 5	9° 0	28°14	
S 8	3 6 36	15° 2'16	12♈42	27°39	5° 2	19°29	22° 4	19°16	24°32	5°57	10° 7	1°33	0° 2	9° 7	28°12	
M 9	3 10 33	16° 2'30	25°16	28° 3	6°16	20° 8	21°57	19°22	24°35	5°58	10° 9	1°25	29°X58	9°13	28°10	
T 10	3 14 29	17° 2'45	7♈35	28°35	7°31	20°47	21°51	19°28	24°39	6° 0	10°11	1°18	29°55	9°20	28° 7	
W 11	3 18 26	18° 3'02	19°41	29°16	8°46	21°26	21°44	19°35	24°42	6° 1	10°14	1°12	29°52	9°27	28° 5	
T 12	3 22 22	19° 3'21	1♈37	0♈ 4	10° 0	22° 5	21°38	19°41	24°45	6° 3	10°16	1° 8	29°49	9°34	28° 2	
F 13	3 26 19	20° 3'42	13°27	1° 0	11°15	22°44	21°31	19°48	24°48	6° 5	10°19	1° 6	29°46	9°40	28° 0	
S 14	3 30 15	21° 4'05	25°18	2° 1	12°30	23°23	21°25	19°54	24°51	6° 7	10°21	1°D 6	29°43	9°47	27°57	
S 15	3 34 12	22° 4'30	7♈13	3° 7	13°44	24° 2	21°19	20° 1	24°54	6° 8	10°24	1° 7	29°39	9°54	27°54	
M 16	3 38 8	23° 4'57	19°19	4°18	14°59	24°41	21°14	20° 7	24°57	6°10	10°26	1° 8	29°36	10° 0	27°51	
T 17	3 42 5	24° 5'25	1♈40	5°32	16°13	25°21	21° 8	20°14	25° 1	6°12	10°28	1°R 8	29°33	10° 7	27°49	
W 18	3 46 2	25° 5'55	14°19	6°50	17°28	26° 0	21° 3	20°20	25° 4	6°14	10°31	1° 7	29°30	10°14	27°46	
T 19	3 49 58	26° 6'27	27°22	8°10	18°43	26°39	20°57	20°27	25° 7	6°15	10°33	1° 4	29°27	10°20	27°43	
F 20	3 53 55	27° 7'01	10♈47	9°33	19°57	27°18	20°52	20°34	25°10	6°17	10°35	0°59	29°23	10°27	27°40	
S 21	3 57 51	28° 7'37	24°35	10°58	21°12	27°57	20°47	20°41	25°14	6°19	10°38	0°51	29°20	10°34	27°37	
S 22	4 1 48	29° 8'14	8♈42	12°24	22°27	28°36	20°42	20°47	25°17	6°21	10°40	0°41	29°17	10°40	27°34	
M 23	4 5 44	0♈ 8'52	23° 3	13°52	23°41	29°15	20°38	20°54	25°20	6°23	10°42	0°31	29°14	10°47	27°30	
T 24	4 9 41	1° 9'32	7♈32	15°21	24°56	29°55	20°33	21° 1	25°24	6°25	10°45	0°22	29°11	10°54	27°27	
W 25	4 13 38	2°10'13	22° 3	16°51	26°10	0♈34	20°29	21° 8	25°27	6°27	10°47	0°14	29° 8	11° 1	27°24	
T 26	4 17 34	3°10'55	6♈28	18°22	27°25	1°13	20°25	21°15	25°31	6°29	10°49	0° 9	29° 4	11° 7	27°21	
F 27	4 21 31	4°11'38	20°46	19°53	28°40	1°52	20°21	21°21	25°34	6°31	10°52	0° 6	29° 1	11°14	27°17	
S 28	4 25 27	5°12'23	4♈52	21°24	29°54	2°32	20°18	21°28	25°38	6°33	10°54	0°D 5	28°58	11°21	27°14	
S 29	4 29 24	6°13'08	18°47	22°56	1♈ 9	3°11	20°14	21°35	25°41	6°35	10°56	0° 5	28°55	11°27	27°11	
M 30	4 33 20	7°13'53	2°Y30	24♈29	2♈23	3♈50	20°Y11	21°X42	25°X45	6°X37	10♈58	0°R 6	28°X52	11°Ω34	27°II 7	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
S 1	14s11	10s31	2s 7	11s 5	0n26	19s28	0s 8	5s 3	0n54	7n27	1s34	21s45	1n12	23s29	0s10	22s20	0n59	0n 8	15n40	0n46	0n 9	22n 6	17n23	6s 3
M 2	14 30	3 58	0 54	10 29	0 45	19 48	0 11	5 19	0 54	7 25	1 34	21 46	1 12	23 29	0 10	22 20	0 59	0 8	15 40	0 47	0 8	22 4	17 23	6 3
T 3	14 50	2n43	0n22	9 58	1 2	20 7	0 13	5 34	0 54	7 22	1 33	21 46	1 12	23 29	0 10	22 20	0 59	0 7	15 40	0 47	0 7	22 2	17 22	6 4
W 4	15 8	9 12	1 35	9 32	1 17	20 26	0 16	5 49	0 53	7 20	1 33	21 47	1 12	23 29	0 10	22 20	0 59	0 6	15 40	0 46	0 6	21 59	17 22	6 4
T 5	15 27	15 10	2 42	9 11	1 31	20 44	0 19	6 4	0 53	7 17	1 33	21 48	1 12	23 29	0 10	22 20	0 59	0 6	15 40	0 45	0 4	21 57	17 21	6 5
F 6	15 45	20 20	3 39	8 57	1 43	21 1	0 21	6 19	0 53	7 15	1 33	21 48	1 12	23 29	0 10	22 20	0 59	0 5	15 40	0 43	0 3	21 55	17 21	6 5
S 7	16 3	24 24	4 22	8 48	1 53	21 18	0 24	6 34	0 52	7 12	1 33	21 49	1 12	23 29	0 10	22 20	0 59	0 4	15 40	0 40	0 2	21 52	17 20	6 6
S 8	16 21	27 9	4 52	8 45	2 1	21 34	0 26	6 49	0 52	7 10	1 33	21 49	1 11	23 29	0 10	22 20	0 59	0 3	15 40	0 37	0 1	21 50	17 20	6 6
M 9	16 38	28 28	5 6	8 48	2 8	21 50	0 29	7 4	0 52	7 8	1 32	21 50	1 11	23 30	0 10	22 20	0 59	0 3	15 40	0 34	0s 1	21 48	17 19	6 7
T 10	16 56	28 19	5 6	8 55	2 12	22 5	0 31	7 19	0 51	7 5	1 32	21 51	1 11	23 30	0 10	22 20	0 59	0 2	15 40	0 31	0 2	21 45	17 19	6 7
W 11	17 13	26 49	4 52	9 6	2 16	22 19	0 34	7 34	0 51	7 3	1 32	21 51	1 11	23 30	0 10	22 20	0 59	0 1	15 40	0 29	0 3	21 43	17 18	6 7
T 12	17 29	24 7	4 26	9 21	2 18	22 33	0 36	7 49	0 51	7 1	1 32	21 52	1 11	23 30	0 10	22 20	0 58	0 1	15 40	0 27	0 4	21 41	17 18	6 8
F 13	17 46	20 26	3 48	9 39	2 19	22 46	0 39	8 4	0 50	6 59	1 31	21 52	1 11	23 30	0 10	22 20	0 58	0s 0	15 40	0 26	0 6	21 38	17 17	6 8
S 14	18 2	15 55	3 1	10 1	2 18	22 59	0 41	8 19	0 50	6 57	1 31	21 53	1 11	23 30	0 10	22 20	0 58	0 1	15 40	0 26	0 7	21 36	17 17	6 9
S 15	18 17	10 48	2 5	10 24	2 17	23 11	0 44	8 33	0 50	6 55	1 31	21 54	1 11	23 30	0 10	22 20	0 58	0 1	15 40	0 26	0 8	21 33	17 17	6 9
M 16	18 33	5 12	1 3	10 50	2 15	23 22	0 46	8 48	0 49	6 53	1 31	21 54	1 10	23 30	0 10	22 20	0 58	0 2	15 40	0 27	0 9	21 31	17 16	6 9
T 17	18 48	0s42	0s 3	11 18	2 12	23 32	0 49	9 3	0 49	6 51	1 31	21 55	1 10	23 31	0 10	22 20	0 58	0 3	15 41	0 27	0 11	21 29	17 16	6 10
W 18	19 3	6 44	1 10	11 47	2 8	23 42	0 51	9 17	0 49	6 49	1 30	21 55	1 10	23 31	0 10	22 20	0 58	0 3	15 41	0 27	0 12	21 26	17 15	6 10
T 19	19 17	12 39	2 16	12 16	2 4	23 51	0 54	9 32	0 48	6 47	1 30	21 56	1 10	23 31	0 10	22 20	0 58	0 4	15 41	0 26	0 13	21 24	17 15	6 11
F 20	19 31	18 9	3 16	12 47	2 0	24 0	0 56	9 46	0 48	6 46	1 30	21 57	1 10	23 31	0 10	22 19	0 58	0 4	15 41	0 23	0 15	21 21	17 14	6 11
S 21	19 45	22 53	4 6	13 18	1 54	24 7	0 58	10 0	0 48	6 44	1 30	21 57	1 10	23 31	0 10	22 19	0 58	0 5	15 41	0 20	0 16	21 19	17 14	6 11
S 22	19 58	26 24	4 42	13 50	1 49	24 14	1 1	10 15	0 47	6 42	1 29	21 58	1 10	23 31	0 10	22 19	0 58	0 5	15 41	0 16	0 17	21 17	17 14	6 12
M 23	20 11	28 16	5 1	14 22	1 43	24 20	1 3	10 29	0 47	6 41	1 29	21 58	1 10	23 31	0 10	22 19	0 58	0 6	15 41	0 12	0 18	21 14	17 13	6 12
T 24	20 24	28 15	5 1	14 54	1 37	24 26	1 5	10 43	0 46	6 39	1 29	21 59	1 10	23 31	0 10	22 19	0 58	0 7	15 41	0 9	0 20	21 12	17 13	6 12
W 25	20 36	26 17	4 42	15 26	1 31	24 30	1 7	10 57	0 46	6 38	1 29	21 59	1 10	23 32	0 10	22 19	0 58	0 7	15 42	0 6	0 21	21 9	17 13	6 13
T 26	20 48	22 37	4 5	15 57	1 24	24 34	1 9	11 11	0 46	6 37	1 28	22 0	1 9	23 32	0 10	22 19	0 58	0 8	15 42	0 3	0 22	21 7	17 12	6 13
F 27	20 59	17 38	3 13	16 28	1 17	24 38	1 11	11 25	0 45	6 36	1 28	22 1	1 9	23 32	0 10	22 19	0 58	0 8	15 42	0 2	0 23	21 4	17 12	6 13
S 28	21 10	11 45	2 10	16 59	1 10	24 40	1 14	11 39	0 45	6 35	1 28	22 1	1 9	23 32	0 10	22 19	0 58	0 9	15 42	0 2	0 25	21 2	17 11	6 14
S 29	21 21	5 21	1 0	17 29	1 3	24 42	1 16	11 53	0 44	6 34	1 27	22 2	1 9	23 32	0 10	22 19	0 58	0 9	15 42	0 2	0 26	21 0	17 11	6 14
M 30</																								

SWISS EPHEMERIS for the year 1987

DECEMBER 1987

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	4 37 17	8♁14'40	16♁ 2	26♁ 2	3♁38	4♁29	20°R 8	21♁49	25♁48	6♁39	11♁ 1	0°R 5	28♁49	11♁41	27°R 4
W 2	4 41 13	9°15'28	29°24	27°34	4°52	5° 9	20°Y 5	21°56	25°52	6°41	11° 3	0°Y 1	28°45	11°47	27°II 0
T 3	4 45 10	10°16'17	12♁35	29° 7	6° 7	5°48	20° 2	22° 3	25°55	6°43	11° 5	29♁55	28°42	11°54	26°57
F 4	4 49 7	11°17'07	25°35	0♁41	7°21	6°27	20° 0	22°10	25°59	6°45	11° 7	29°46	28°39	12° 1	26°53
S 5	4 53 3	12°17'58	8II24	2°14	8°36	7° 7	19°57	22°17	26° 2	6°47	11° 9	29°34	28°36	12° 7	26°50
S 6	4 57 0	13°18'50	21° 1	3°47	9°50	7°46	19°55	22°24	26° 6	6°49	11°12	29°21	28°33	12°14	26°46
M 7	5 0 56	14°19'44	3♁26	5°21	11° 5	8°25	19°53	22°31	26° 9	6°51	11°14	29° 7	28°29	12°21	26°42
T 8	5 4 53	15°20'38	15°38	6°54	12°19	9° 5	19°52	22°38	26°13	6°54	11°16	28°54	28°26	12°27	26°39
W 9	5 8 49	16°21'33	27°41	8°27	13°34	9°44	19°50	22°45	26°16	6°56	11°18	28°43	28°23	12°34	26°35
T 10	5 12 46	17°22'30	9♁35	10° 1	14°48	10°24	19°49	22°52	26°20	6°58	11°20	28°35	28°20	12°41	26°31
F 11	5 16 42	18°23'28	21°24	11°35	16° 3	11° 3	19°48	23° 0	26°24	7° 0	11°22	28°29	28°17	12°48	26°28
S 12	5 20 39	19°24'26	3♁12	13° 8	17°17	11°43	19°47	23° 7	26°27	7° 2	11°24	28°26	28°14	12°54	26°24
S 13	5 24 36	20°25'26	15° 5	14°42	18°31	12°22	19°46	23°14	26°31	7° 4	11°26	28°25	28°10	13° 1	26°20
M14	5 28 32	21°26'27	27° 7	16°16	19°46	13° 2	19°46	23°21	26°35	7° 7	11°28	28°25	28° 7	13° 8	26°16
T 15	5 32 29	22°27'29	9♁25	17°50	21° 0	13°41	19°46	23°28	26°38	7° 9	11°30	28°25	28° 4	13°14	26°13
W16	5 36 25	23°28'32	22° 4	19°24	22°14	14°21	19°D46	23°35	26°42	7°11	11°32	28°23	28° 1	13°21	26° 9
T 17	5 40 22	24°29'36	5♁ 7	20°58	23°29	15° 0	19°46	23°42	26°45	7°13	11°34	28°19	27°58	13°28	26° 5
F 18	5 44 18	25°30'40	18°38	22°32	24°43	15°40	19°46	23°49	26°49	7°15	11°36	28°12	27°55	13°34	26° 1
S 19	5 48 15	26°31'46	2♁38	24° 6	25°57	16°19	19°47	23°56	26°53	7°18	11°38	28° 3	27°51	13°41	25°58
S 20	5 52 11	27°32'53	17° 2	25°41	27°11	16°59	19°48	24° 3	26°56	7°20	11°40	27°51	27°48	13°48	25°54
M21	5 56 8	28°34'00	1♁47	27°15	28°26	17°39	19°49	24°11	27° 0	7°22	11°41	27°39	27°45	13°54	25°50
T 22	6 0 5	29°35'08	16°42	28°50	29°40	18°18	19°50	24°18	27° 4	7°24	11°43	27°27	27°42	14° 1	25°46
W23	6 4 1	0♁36'16	1♁40	0♁25	0♁54	18°58	19°52	24°25	27° 7	7°27	11°45	27°17	27°39	14° 8	25°42
T 24	6 7 58	1°37'24	16°30	2° 0	2° 8	19°38	19°53	24°32	27°11	7°29	11°47	27°10	27°35	14°14	25°39
F 25	6 11 54	2°38'32	1♁ 6	3°36	3°22	20°17	19°55	24°39	27°15	7°31	11°49	27° 5	27°32	14°21	25°35
S 26	6 15 51	3°39'41	15°24	5°11	4°37	20°57	19°57	24°46	27°18	7°34	11°50	27° 4	27°29	14°28	25°31
S 27	6 19 47	4°40'49	29°22	6°47	5°51	21°37	20° 0	24°53	27°22	7°36	11°52	27° 3	27°26	14°34	25°27
M28	6 23 44	5°41'58	13♁ 1	8°24	7° 5	22°16	20° 2	25° 0	27°25	7°38	11°54	27° 3	27°23	14°41	25°24
T 29	6 27 40	6°43'06	26°22	10° 0	8°19	22°56	20° 5	25° 7	27°29	7°40	11°55	27° 2	27°20	14°48	25°20
W30	6 31 37	7°44'14	9♁28	11°37	9°33	23°36	20° 8	25°14	27°33	7°43	11°57	26°58	27°16	14°55	25°16
T 31	6 35 34	8♁45'23	22♁20	13♁14	10♁47	24♁16	20°Y11	25♁21	27♁36	7♁45	11♁58	26♁52	27♁13	15♁ 1	25♁13

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	21s41	7n36	1n24	18s28	0n49	24s43	1s19	12s20	0n44	6n32	1s27	22s 3	1n 9	23s32	0s10	22s19	0s58	0s10	15n43	0n 2	0s28	20n55	17n10	6s14
W 2	21 51	13 35	2 29	18 56	0 42	24 42	1 21	12 34	0 43	6 31	1 27	22 3	1 9	23 32	0 10	22 19	0 58	0 10	15 43	0 0	0 30	20 52	17 10	6 15
T 3	22 0	18 52	3 25	19 24	0 35	24 41	1 23	12 47	0 43	6 30	1 26	22 4	1 9	23 33	0 10	22 19	0 58	0 11	15 43	0s 2	0 31	20 50	17 10	6 15
F 4	22 8	23 12	4 10	19 50	0 28	24 39	1 25	13 0	0 42	6 29	1 26	22 4	1 9	23 33	0 10	22 18	0 58	0 11	15 43	0 6	0 32	20 47	17 9	6 15
S 5	22 16	26 20	4 41	20 16	0 21	24 36	1 27	13 14	0 42	6 29	1 26	22 5	1 9	23 33	0 10	22 18	0 58	0 12	15 43	0 10	0 33	20 45	17 9	6 15
S 6	22 24	28 5	4 57	20 41	0 14	24 33	1 28	13 27	0 42	6 28	1 25	22 5	1 9	23 33	0 10	22 18	0 58	0 12	15 44	0 16	0 35	20 42	17 9	6 16
M 7	22 31	28 23	5 0	21 5	0 7	24 29	1 30	13 40	0 41	6 28	1 25	22 6	1 8	23 33	0 10	22 18	0 58	0 12	15 44	0 21	0 36	20 40	17 8	6 16
T 8	22 38	27 18	4 48	21 28	0s 0	24 23	1 32	13 53	0 41	6 28	1 25	22 6	1 8	23 33	0 10	22 18	0 58	0 13	15 44	0 26	0 37	20 37	17 8	6 16
W 9	22 45	24 56	4 24	21 50	0 7	24 18	1 33	14 6	0 40	6 27	1 24	22 6	1 8	23 33	0 10	22 18	0 58	0 13	15 44	0 31	0 39	20 35	17 8	6 16
T 10	22 51	21 31	3 48	22 11	0 14	24 11	1 34	14 19	0 40	6 27	1 24	22 7	1 8	23 33	0 10	22 18	0 58	0 13	15 45	0 34	0 40	20 32	17 8	6 16
F 11	22 56	17 15	3 2	22 31	0 21	24 4	1 36	14 31	0 39	6 27	1 24	22 7	1 8	23 33	0 10	22 18	0 58	0 14	15 45	0 36	0 41	20 30	17 7	6 17
S 12	23 1	12 20	2 9	22 50	0 27	23 56	1 37	14 44	0 39	6 27	1 24	22 8	1 8	23 34	0 10	22 18	0 58	0 14	15 45	0 37	0 42	20 27	17 7	6 17
S 13	23 6	6 57	1 10	23 7	0 34	23 47	1 38	14 56	0 38	6 27	1 23	22 8	1 8	23 34	0 10	22 18	0 58	0 14	15 46	0 38	0 44	20 25	17 7	6 17
M14	23 10	1 15	0 7	23 24	0 40	23 38	1 40	15 9	0 38	6 27	1 23	22 9	1 8	23 34	0 10	22 18	0 58	0 15	15 46	0 38	0 45	20 22	17 7	6 17
T 15	23 14	4s37	0s58	23 29	0 46	23 28	1 41	15 21	0 37	6 27	1 23	22 9	1 8	23 34	0 10	22 17	0 58	0 15	15 46	0 38	0 46	20 20	17 6	6 17
W16	23 17	10 28	2 2	23 53	0 52	23 17	1 42	15 33	0 37	6 28	1 22	22 9	1 8	23 34	0 10	22 17	0 58	0 15	15 47	0 39	0 47	20 17	17 6	6 17
T 17	23 20	16 4	3 1	24 6	0 58	23 5	1 43	15 45	0 37	6 28	1 22	22 10	1 8	23 34	0 10	22 17	0 58	0 15	15 47	0 40	0 49	20 15	17 6	6 17
F 18	23 22	21 5	3 52	24 18	1 4	22 53	1 44	15 57	0 36	6 28	1 22	22 10	1 8	23 34	0 10	22 17	0 58	0 16	15 47	0 43	0 50	20 12	17 6	6 17
S 19	23 24	25 7	4 31	24 28	1 10	22 40	1 45	16 9	0 36	6 29	1 21	22 11	1 8	23 34	0 10	22 17	0 58	0 16	15 48	0 47	0 51	20 9	17 6	6 18
S 20	23 25	27 42	4 55	24 37	1 15	22 27	1 45	16 21	0 35	6 30	1 21	22 11	1 8	23 34	0 10	22 17	0 58	0 16	15 48	0 51	0 52	20 7	17 5	6 18
M21	23 26	28 25	4 59	24 45	1 20	22 13	1 46	16 33	0 35	6 30	1 21	22 11	1 8	23 34	0 10	22 17	0 58	0 16	15 48	0 56	0 54	20 4	17 5	6 18
T 22	23 27	27 5	4 43	24 52	1 25	21 58	1 47	16 44	0 34	6 31	1 20	22 12	1 8	23 35	0 10	22 17	0 58	0 16	15 49	1 1	0 55	20 2	17 5	6 18
W23	23 27	23 50	4 8	24 57	1 30	21 42	1 47	16 56	0 34	6 32	1 20	22 12	1 7	23 35	0 10	22 17	0 58	0 17	15 49	1 5	0 56	19 59	17 5	6 18
T 24	23 26	19 1	3 16	25 0	0 35	21 26	1 48	17 7	0 33	6 33	1 20	22 12	1 7	23 35	0 10	22 16	0 58	0 17	15 49	1 8	0 57	19 57	17 5	6 18
F 25	23 25	13 9	2 12	25 3	1 39	21 9	1 48	17 18	0 33	6 34	1 19	22 13	1 7	23 35	0 10	22 16	0 58	0 17	15 50	1 9	0 59	19 54	17 4	6 18
S 26	23 24	6 42	1 1	25 3	1 43	20 52	1 48	17 29	0 32	6 35	1 19	22 13	1 7	23 35	0 10	22 16	0 58	0 17	15 50	1 10	1 0	19 51	17 4	6 18
S 27	23 22	0 4	0n12	25 3	1 47	20 34	1 49	17 40	0 31	6 36	1 19	22 13	1 7	23 35	0 10	22 16	0 58	0 17	15 50	1 10	1 1	19 49	17 4	6 18
M28	23 19	6n25	1 23	25 1	1 50	20 16	1 49	17 51	0 31	6 37	1 19	22 14	1 7	23 35	0 10	22 16	0 57	0 17	15 51	1 10	1 3	19 46	17 4	6 18
T 29	23 16	12 29	2 28																					