

SWISS EPHEMERIS for the year 1988

JANUARY 1988

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
F 1	6 39 30	9♄36'31	5♂ 0	14♂51	12♁ 1	24♂56	20♂14	25♂28	27♂40	7♂47	12♂ 0	26°R42	27♂10	15♂ 8	25°R 9	
S 2	6 43 27	10°47'39	17°31	16°29	13°14	25°35	20°18	25°35	27°43	7°49	12° 1	26°R30	27° 7	15°15	25♂ 5	
S 3	6 47 23	11°48'48	29°52	18° 6	14°28	26°15	20°21	25°42	27°47	7°52	12° 3	26°17	27° 4	15°21	25° 2	
M 4	6 51 20	12°49'56	12♂ 3	19°44	15°42	26°55	20°25	25°49	27°50	7°54	12° 4	26° 3	27° 1	15°28	24°58	
T 5	6 55 16	13°51'04	24° 7	21°23	16°56	27°35	20°29	25°56	27°54	7°56	12° 6	25°50	26°57	15°35	24°55	
W 6	6 59 13	14°52'13	6♂ 4	23° 1	18°10	28°15	20°33	26° 2	27°58	7°59	12° 7	25°38	26°54	15°41	24°51	
T 7	7 3 10	15°53'21	17°55	24°40	19°23	28°55	20°38	26° 9	28° 1	8° 1	12° 9	25°29	26°51	15°48	24°48	
F 8	7 7 6	16°54'29	29°43	26°19	20°37	29°34	20°42	26°16	28° 5	8° 3	12°10	25°23	26°48	15°55	24°44	
S 9	7 11 3	17°55'37	11♂31	27°58	21°50	0♂14	20°47	26°23	28° 8	8° 5	12°11	25°20	26°45	16° 1	24°41	
S 10	7 14 59	18°56'45	23°23	29°37	23° 4	0°54	20°52	26°30	28°11	8° 8	12°12	25°D19	26°41	16° 8	24°38	
M11	7 18 56	19°57'54	5♂23	1♁17	24°17	1°34	20°57	26°36	28°15	8°10	12°14	25°19	26°38	16°15	24°34	
T 12	7 22 52	20°59'02	17°37	2°56	25°31	2°14	21° 3	26°43	28°18	8°12	12°15	25°R20	26°35	16°21	24°31	
W13	7 26 49	22° 0'10	0♂11	4°34	26°44	2°54	21° 8	26°50	28°22	8°14	12°16	25°19	26°32	16°28	24°28	
T 14	7 30 45	23° 1'18	13° 9	6°13	27°58	3°34	21°14	26°56	28°25	8°16	12°17	25°17	26°29	16°35	24°25	
F 15	7 34 42	24° 2'26	26°35	7°50	29°11	4°14	21°20	27° 3	28°29	8°19	12°18	25°13	26°26	16°41	24°21	
S 16	7 38 39	25° 3'34	10♂31	9°28	0♂24	4°54	21°26	27°10	28°32	8°21	12°19	25° 6	26°22	16°48	24°18	
S 17	7 42 35	26° 4'42	24°56	11° 4	1°37	5°34	21°32	27°16	28°35	8°23	12°20	24°58	26°19	16°55	24°15	
M18	7 46 32	27° 5'50	9♂47	12°39	2°51	6°14	21°39	27°23	28°39	8°25	12°21	24°48	26°16	17° 1	24°12	
T 19	7 50 28	28° 6'57	24°54	14°12	4° 4	6°54	21°45	27°29	28°42	8°27	12°22	24°39	26°13	17° 8	24° 9	
W20	7 54 25	29° 8'03	10♁ 9	15°43	5°17	7°34	21°52	27°35	28°45	8°30	12°23	24°31	26°10	17°15	24° 6	
T 21	7 58 21	0♁ 9'09	25°20	17°12	6°30	8°14	21°59	27°42	28°48	8°32	12°24	24°25	26° 7	17°21	24° 4	
F 22	8 2 18	1°10'14	10♂17	18°39	7°43	8°54	22° 6	27°48	28°52	8°34	12°25	24°22	26° 3	17°28	24° 1	
S 23	8 6 14	2°11'18	24°55	20° 1	8°55	9°35	22°13	27°54	28°55	8°36	12°26	24°D21	26° 0	17°35	23°58	
S 24	8 10 11	3°12'21	9♂ 7	21°20	10° 8	10°15	22°20	28° 1	28°58	8°38	12°27	24°22	25°57	17°41	23°55	
M25	8 14 8	4°13'23	22°55	22°34	11°21	10°55	22°28	28° 7	29° 1	8°40	12°27	24°23	25°54	17°48	23°53	
T 26	8 18 4	5°14'24	6♂19	23°43	12°34	11°35	22°36	28°13	29° 4	8°42	12°28	24°R24	25°51	17°55	23°50	
W27	8 22 1	6°15'24	19°21	24°45	13°46	12°15	22°44	28°19	29° 7	8°44	12°29	24°23	25°47	18° 2	23°48	
T 28	8 25 57	7°16'22	2♂ 5	25°41	14°59	12°55	22°52	28°25	29°10	8°46	12°30	24°20	25°44	18° 8	23°45	
F 29	8 29 54	8°17'20	14°34	26°28	16°11	13°35	23° 0	28°31	29°13	8°48	12°30	24°14	25°41	18°15	23°43	
S 30	8 33 50	9°18'17	26°52	27° 7	17°23	14°15	23° 8	28°37	29°16	8°51	12°31	24° 7	25°38	18°22	23°41	
S 31	8 37 47	10♁19'12	8♂59	27♁36	18♂35	14♂56	23♂16	28♂43	29♂19	8♂53	12♂31	23♂59	25♂35	18♂28	23♂39	

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	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
F 1	23s 5	25n43	4n40	24s38	2s 2	18s56	1s49	18s32	0n29	6n43	1s17	22s15	1n 7	23s35	0s10	22s16	0n57	0s18	15n52	1s19	1s 8	19n36	17n 4	6s18
S 2	23 0	27 47	4 57	24 29	2 4	18 35	1 48	18 42	0 28	6 44	1 17	22 15	1 7	23 35	0 10	22 15	0 57	0 18	15 53	1 23	1 9	19 33	17 4	6 18
S 3	22 55	28 26	5 0	24 17	2 6	18 13	1 48	18 52	0 28	6 46	1 17	22 15	1 7	23 35	0 10	22 15	0 57	0 18	15 53	1 29	1 10	19 30	17 4	6 18
M 4	22 49	27 42	4 49	24 5	2 7	17 51	1 48	19 2	0 27	6 48	1 16	22 16	1 7	23 36	0 10	22 15	0 57	0 18	15 54	1 34	1 11	19 28	17 3	6 18
T 5	22 43	25 39	4 25	23 51	2 8	17 28	1 47	19 12	0 26	6 50	1 16	22 16	1 7	23 36	0 10	22 15	0 57	0 18	15 54	1 40	1 13	19 25	17 3	6 18
W 6	22 37	22 28	3 50	23 35	2 8	17 5	1 47	19 21	0 26	6 52	1 16	22 16	1 7	23 36	0 10	22 15	0 57	0 18	15 55	1 44	1 14	19 23	17 3	6 17
T 7	22 30	18 24	3 5	23 18	2 8	16 41	1 46	19 30	0 25	6 54	1 16	22 16	1 7	23 36	0 10	22 15	0 57	0 18	15 55	1 48	1 15	19 20	17 3	6 17
F 8	22 22	13 38	2 12	22 59	2 8	16 17	1 45	19 40	0 25	6 56	1 15	22 17	1 7	23 36	0 10	22 15	0 57	0 17	15 55	1 50	1 16	19 17	17 3	6 17
S 9	22 15	8 22	1 13	22 39	2 7	15 52	1 44	19 49	0 24	6 58	1 15	22 17	1 7	23 36	0 10	22 14	0 57	0 17	15 56	1 51	1 18	19 15	17 3	6 17
S 10	22 6	2 47	0 10	22 17	2 5	15 27	1 43	19 58	0 23	7 0	1 15	22 17	1 7	23 36	0 10	22 14	0 57	0 17	15 56	1 52	1 19	19 12	17 3	6 17
M11	21 57	2s57	0s54	21 53	2 3	15 2	1 42	20 6	0 23	7 2	1 14	22 17	1 7	23 36	0 10	22 14	0 57	0 17	15 57	1 52	1 20	19 9	17 3	6 17
T 12	21 48	8 42	1 56	21 28	2 1	14 36	1 41	20 15	0 22	7 4	1 14	22 17	1 7	23 36	0 10	22 14	0 57	0 17	15 57	1 51	1 21	19 7	17 3	6 17
W13	21 39	14 16	2 55	21 2	2 1	58 14	1 40	20 23	0 22	7 7	1 14	22 18	1 7	23 36	0 10	22 14	0 57	0 17	15 58	1 52	1 23	19 4	17 3	6 17
T 14	21 29	19 23	3 47	20 34	1 54	13 44	1 39	20 32	0 21	7 9	1 13	22 18	1 7	23 36	0 10	22 14	0 57	0 17	15 58	1 52	1 24	19 1	17 3	6 16
F 15	21 18	23 44	4 28	20 5	1 50	13 17	1 37	20 40	0 20	7 11	1 13	22 18	1 7	23 36	0 10	22 14	0 57	0 17	15 59	1 54	1 25	18 59	17 3	6 16
S 16	21 7	26 53	4 55	19 34	1 45	12 50	1 36	20 48	0 20	7 14	1 13	22 18	1 7	23 36	0 10	22 14	0 57	0 17	15 59	1 57	1 27	18 56	17 4	6 16
S 17	20 56	28 25	5 5	19 2	1 39	12 22	1 34	20 55	0 19	7 17	1 13	22 18	1 7	23 36	0 10	22 13	0 57	0 16	16 0	2 0	1 28	18 53	17 4	6 16
M18	20 45	27 59	4 54	18 29	1 32	11 54	1 33	21 3	0 18	7 19	1 12	22 18	1 7	23 36	0 10	22 13	0 57	0 16	16 0	2 4	1 29	18 50	17 4	6 16
T 19	20 33	25 28	4 24	17 55	1 25	11 26	1 31	21 11	0 18	7 22	1 12	22 19	1 7	23 36	0 10	22 13	0 57	0 16	16 1	2 8	1 30	18 48	17 4	6 15
W20	20 20	21 8	3 34	17 21	1 17	10 58	1 29	21 18	0 17	7 25	1 12	22 19	1 7	23 36	0 10	22 13	0 57	0 16	16 1	2 11	1 32	18 45	17 4	6 15
T 21	20 7	15 25	2 29	16 45	1 8	10 29	1 27	21 25	0 16	7 27	1 12	22 19	1 7	23 37	0 10	22 13	0 57	0 16	16 2	2 13	1 33	18 42	17 4	6 15
F 22	19 54	8 52	1 15	16 9	0 58	10 0	1 25	21 32	0 16	7 30	1 11	22 19	1 7	23 37	0 10	22 13	0 57	0 15	16 2	2 14	1 34	18 40	17 4	6 15
S 23	19 41	1 59	0n 3	15 33	0 47	9 31	1 23	21 39	0 15	7 33	1 11	22 19	1 7	23 37	0 10	22 13	0 57	0 15	16 3	2 14	1 35	18		

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	8 41 43	11 ^h 20'06	21 ^h 00	27 ^h 55	19 ^h 48	15 ^h 36	23 ^h 25	28 ^h 49	29 ^h 22	8 ^h 55	12 ^h 32	23 ^h R51	25 ^h 32	18 ^h 35	23 ^h R36
T 2	8 45 40	12 ^h 20'59	2 ^h 55	28 ^h R 4	21 ^h 0	16 ^h 16	23 ^h 34	28 ^h 55	29 ^h 25	8 ^h 57	12 ^h 32	23 ^h 42	25 ^h 28	18 ^h 42	23 ^h II34
W 3	8 49 37	13 ^h 21'51	14 ^h 47	28 ^h 1	22 ^h 12	16 ^h 56	23 ^h 43	29 ^h 1	29 ^h 28	8 ^h 58	12 ^h 33	23 ^h 35	25 ^h 25	18 ^h 48	23 ^h 32
T 4	8 53 33	14 ^h 22'42	26 ^h 36	27 ^h 47	23 ^h 23	17 ^h 37	23 ^h 52	29 ^h 6	29 ^h 31	9 ^h 0	12 ^h 33	23 ^h 30	25 ^h 22	18 ^h 55	23 ^h 30
F 5	8 57 30	15 ^h 23'32	8 ^h 25	27 ^h 22	24 ^h 35	18 ^h 17	24 ^h 1	29 ^h 12	29 ^h 34	9 ^h 2	12 ^h 33	23 ^h 27	25 ^h 19	19 ^h 2	23 ^h 28
S 6	9 1 26	16 ^h 24'21	20 ^h 16	26 ^h 47	25 ^h 47	18 ^h 57	24 ^h 10	29 ^h 18	29 ^h 37	9 ^h 4	12 ^h 34	23 ^h D25	25 ^h 16	19 ^h 8	23 ^h 27
S 7	9 5 23	17 ^h 25'08	2 ^h 12	26 ^h 2	26 ^h 58	19 ^h 37	24 ^h 19	29 ^h 23	29 ^h 39	9 ^h 6	12 ^h 34	23 ^h 26	25 ^h 13	19 ^h 15	23 ^h 25
M 8	9 9 19	18 ^h 25'55	14 ^h 16	25 ^h 8	28 ^h 10	20 ^h 18	24 ^h 29	29 ^h 29	29 ^h 42	9 ^h 8	12 ^h 34	23 ^h 27	25 ^h 9	19 ^h 22	23 ^h 23
T 9	9 13 16	19 ^h 26'41	26 ^h 32	24 ^h 7	29 ^h 21	20 ^h 58	24 ^h 38	29 ^h 34	29 ^h 45	9 ^h 10	12 ^h 35	23 ^h 29	25 ^h 6	19 ^h 28	23 ^h 22
W10	9 17 12	20 ^h 27'25	9 ^h 5	23 ^h 1	0 ^h 32	21 ^h 38	24 ^h 48	29 ^h 39	29 ^h 47	9 ^h 12	12 ^h 35	23 ^h 30	25 ^h 3	19 ^h 35	23 ^h 20
T 11	9 21 9	21 ^h 28'09	21 ^h 58	21 ^h 52	1 ^h 44	22 ^h 19	24 ^h 58	29 ^h 45	29 ^h 50	9 ^h 14	12 ^h 35	23 ^h R31	25 ^h 0	19 ^h 42	23 ^h 19
F 12	9 25 6	22 ^h 28'52	5 ^h 16	20 ^h 41	2 ^h 55	22 ^h 59	25 ^h 8	29 ^h 50	29 ^h 53	9 ^h 15	12 ^h 35	23 ^h 30	24 ^h 57	19 ^h 48	23 ^h 17
S 13	9 29 2	23 ^h 29'34	19 ^h 1	19 ^h 31	4 ^h 6	23 ^h 39	25 ^h 18	29 ^h 55	29 ^h 55	9 ^h 17	12 ^h 35	23 ^h 28	24 ^h 53	19 ^h 55	23 ^h 16
S 14	9 32 59	24 ^h 30'14	3 ^h 14	18 ^h 23	5 ^h 16	24 ^h 20	25 ^h 28	0 ^h 0	29 ^h 58	9 ^h 19	12 ^h 35	23 ^h 25	24 ^h 50	20 ^h 2	23 ^h 15
M15	9 36 55	25 ^h 30'54	17 ^h 53	17 ^h 19	6 ^h 27	25 ^h 0	25 ^h 39	0 ^h 5	29 ^h 59	9 ^h 21	12 ^h R35	23 ^h 21	24 ^h 47	20 ^h 8	23 ^h 14
T 16	9 40 52	26 ^h 31'32	2 ^h 53	16 ^h 20	7 ^h 38	25 ^h 40	25 ^h 49	0 ^h 10	0 ^h 2	9 ^h 22	12 ^h 35	23 ^h 17	24 ^h 44	20 ^h 15	23 ^h 13
W17	9 44 48	27 ^h 32'09	18 ^h 5	15 ^h 27	8 ^h 48	26 ^h 21	26 ^h 0	0 ^h 15	0 ^h 5	9 ^h 24	12 ^h 35	23 ^h 13	24 ^h 41	20 ^h 22	23 ^h 12
T 18	9 48 45	28 ^h 32'44	3 ^h 12	14 ^h 40	9 ^h 58	27 ^h 1	26 ^h 11	0 ^h 20	0 ^h 7	9 ^h 26	12 ^h 35	23 ^h 11	24 ^h 38	20 ^h 28	23 ^h 11
F 19	9 52 41	29 ^h 33'18	18 ^h 28	14 ^h 2	11 ^h 9	27 ^h 42	26 ^h 21	0 ^h 24	0 ^h 9	9 ^h 27	12 ^h 35	23 ^h D10	24 ^h 34	20 ^h 35	23 ^h 10
S 20	9 56 38	0 ^h 33'50	3 ^h 19	13 ^h 31	12 ^h 19	28 ^h 22	26 ^h 32	0 ^h 29	0 ^h 12	9 ^h 29	12 ^h 35	23 ^h 10	24 ^h 31	20 ^h 42	23 ^h 9
S 21	10 0 35	1 ^h 34'20	17 ^h 48	13 ^h 7	13 ^h 29	29 ^h 2	26 ^h 43	0 ^h 34	0 ^h 14	9 ^h 30	12 ^h 34	23 ^h 11	24 ^h 28	20 ^h 48	23 ^h 9
M22	10 4 31	2 ^h 34'49	1 ^h 49	12 ^h 51	14 ^h 39	29 ^h 43	26 ^h 54	0 ^h 38	0 ^h 16	9 ^h 32	12 ^h 34	23 ^h 13	24 ^h 25	20 ^h 55	23 ^h 8
T 23	10 8 28	3 ^h 35'15	15 ^h 24	12 ^h 43	15 ^h 48	0 ^h 23	27 ^h 6	0 ^h 43	0 ^h 18	9 ^h 33	12 ^h 34	23 ^h 14	24 ^h 22	21 ^h 2	23 ^h 8
W24	10 12 24	4 ^h 35'40	2 ^h 33	12 ^h D41	16 ^h 58	1 ^h 4	27 ^h 17	0 ^h 47	0 ^h 20	9 ^h 35	12 ^h 33	23 ^h 15	24 ^h 19	21 ^h 8	23 ^h 7
T 25	10 16 21	5 ^h 36'03	11 ^h 19	12 ^h 46	18 ^h 7	1 ^h 44	27 ^h 28	0 ^h 51	0 ^h 22	9 ^h 36	12 ^h 33	23 ^h R15	24 ^h 15	21 ^h 15	23 ^h 7
F 26	10 20 17	6 ^h 36'24	2 ^h 46	12 ^h 58	19 ^h 16	2 ^h 24	27 ^h 40	0 ^h 56	0 ^h 24	9 ^h 38	12 ^h 33	23 ^h 14	24 ^h 12	21 ^h 22	23 ^h 7
S 27	10 24 14	7 ^h 36'43	5 ^h 59	13 ^h 15	20 ^h 25	3 ^h 5	27 ^h 51	1 ^h 0	0 ^h 26	9 ^h 39	12 ^h 32	23 ^h 12	24 ^h 9	21 ^h 28	23 ^h 7
S 28	10 28 10	8 ^h 37'00	18 ^h 0	13 ^h 38	21 ^h 34	3 ^h 45	28 ^h 3	1 ^h 4	0 ^h 28	9 ^h 41	12 ^h 32	23 ^h 10	24 ^h 6	21 ^h 35	23 ^h D 7
M29	10 32 7	9 ^h 37'15	29 ^h 54	14 ^h 6	22 ^h 43	4 ^h 26	28 ^h 15	1 ^h 8	0 ^h 30	9 ^h 42	12 ^h 31	23 ^h 8	24 ^h 3	21 ^h 42	23 ^h II 7

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	17s23	26n19	4n35	10s50	1n27	4s59	1s 1	22s32	0n 8	8n 2	1s 9	22s20	1n 7	23s37	0s10	22s11	0n57	0s12	16n 7	2s27	1s47	18n12	17n 6	6s12
T 2	17 6 23	24 4 0	10 31	1 44	4 28	0 59	22 37	0 8	8 5	1 8	22 20	1 7 23 37	0 10 22 11	0 57	0 12 16 8	2 30	1 48	18 9	17 6	6 12				
W 3	16 49 19	30 3 14	10 16	2 1	3 57	0 56	22 41	0 7	8 9	1 8	22 20	1 7 23 37	0 10 22 11	0 57	0 12 16 8	2 33	1 49	18 7	17 6	6 12				
T 4	16 31 14	51 2 21	10 5	2 18	3 26	0 53	22 46	0 6	8 13	1 8	22 20	1 7 23 37	0 10 22 11	0 57	0 11 16 9	2 35	1 50	18 4	17 6	6 11				
F 5	16 13 9	40 1 21	9 58	2 34	2 55	0 50	22 50	0 5	8 16	1 8	22 20	1 7 23 37	0 10 22 11	0 58	0 11 16 9	2 36	1 52	18 1	17 7	6 11				
S 6	15 55 4	7 0 17	9 56	2 49	2 23	0 46	22 55	0 5	8 20	1 7	22 20	1 7 23 37	0 10 22 11	0 58	0 11 16 10	2 37	1 53	17 58	17 7	6 11				
S 7	15 37 1s36	0s48	9 58	3 3	1 52	0 43	22 59	0 4	8 23	1 7	22 20	1 7 23 37	0 10 22 10	0 58	0 10 16 10	2 37	1 54	17 56	17 7	6 10				
M 8	15 18 7	20 1 51	10 5	3 15	1 20	0 40	23 2	0 3	8 27	1 7	22 20	1 7 23 37	0 10 22 10	0 58	0 10 16 11	2 36	1 56	17 53	17 7	6 10				
T 9	14 59 12	54 2 51	10 15	3 25	0 49	0 37	23 6	0 2	8 31	1 7	22 20	1 7 23 37	0 11 22 10	0 58	0 9 16 11	2 35	1 57	17 50	17 8	6 10				
W10	14 40 18	4 3 44	10 29	3 33	0 18	0 33	23 10	0 1	8 35	1 6	22 20	1 7 23 37	0 11 22 10	0 58	0 9 16 12	2 35	1 58	17 47	17 8	6 9				
T 11	14 21 22	34 4 27	10 46	3 38	0n14	0 30	23 13	0 0	8 38	1 6	22 20	1 7 23 37	0 11 22 10	0 58	0 8 16 12	2 34	1 59	17 44	17 8	6 9				
F 12	14 1 26	4 4 58	11 6	3 42	0 45	0 26	23 16	0s 0	8 42	1 6	22 20	1 7 23 37	0 11 22 10	0 58	0 8 16 13	2 35	2 1	17 42	17 8	6 9				
S 13	13 41 28	11 5 12	11 27	3 42	1 17	0 23	23 19	0 1	8 46	1 6	22 20	1 7 23 37	0 11 22 10	0 58	0 7 16 13	2 36	2 2	17 39	17 9	6 8				
S 14	13 21 28	33 5 9	11 49	3 41	1 48	0 19	23 21	0 2	8 50	1 6	22 20	1 7 23 37	0 11 22 10	0 58	0 7 16 14	2 37	2 3	17 36	17 9	6 8				
M15	13 1 26	58 4 45	12 12	3 37	2 20	0 15	23 24	0 3	8 54	1 5	22 20	1 7 23 37	0 11 22 9	0 58	0 6 16 14	2 39	2 4	17 33	17 9	6 7				
T 16	12 41 23	26 4 2	12 35	3 31	2 51	0 11	23 26	0 4	8 58	1 5	22 20	1 7 23 37	0 11 22 9	0 58	0 6 16 15	2 40	2 6	17 30	17 10	6 7				
W17	12 20 18	17 3 1	12 58	3 24	3 23	0 7	23 28	0 5	9 2	1 5	22 20	1 7 23 37	0 11 22 9	0 58	0 5 16 15	2 41	2 7	17 27	17 10	6 7				
T 18	11 59 11	57 1 47	13 20	3 15	3 54	0 4	23 30	0 6	9 6	1 5	22 20	1 7 23 37	0 11 22 9	0 58	0 5 16 16	2 42	2 8	17 25	17 10	6 6				
F 19	11 38 4	57 0 26	13 40	3 5	4 25	0n 0	23 32	0 7	9 10	1 5	22 20	1 7 23 37	0 11 22 9	0 58	0 4 16 16	2 43	2 9	17 22	17 11	6 6				
S 20	11 17 2n10	0n56	14 0	2 54	4 56	0 4	23 33	0 7	9 14	1 4	22 20	1 7 23 37	0 11 22 9	0 58	0 4 16 17	2 43	2 1							

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	10 36 4	10 ^h 37'29"	11 ^h 04'	14 ^h 39'	23 ^h 51'	5 ^h 06'	28 ^h 27'	1 ^h 01'	0 ^h 32'	9 ^h 43'	12 ^h 31'	23 ^h 06'	23 ^h 59'	21 ^h 04'	23 ^h 11'	7
W 2	10 40 0	11 ^h 37'40"	23 ^h 33'	15 ^h 16'	25 ^h 00'	5 ^h 47'	28 ^h 39'	1 ^h 15'	0 ^h 33'	9 ^h 45'	12 ^h 30'	23 ^h 03'	23 ^h 56'	21 ^h 55'	23 ^h 07'	7
T 3	10 43 57	12 ^h 37'49"	5 ^h 23'	15 ^h 57'	26 ^h 08'	6 ^h 27'	28 ^h 51'	1 ^h 19'	0 ^h 35'	9 ^h 46'	12 ^h 30'	23 ^h 03'	23 ^h 53'	22 ^h 02'	23 ^h 07'	7
F 4	10 47 53	13 ^h 37'56"	17 ^h 16'	16 ^h 42'	27 ^h 16'	7 ^h 08'	29 ^h 03'	1 ^h 23'	0 ^h 37'	9 ^h 47'	12 ^h 29'	23 ^h 03'	23 ^h 50'	22 ^h 08'	23 ^h 08'	8
S 5	10 51 50	14 ^h 38'02"	29 ^h 14'	17 ^h 31'	28 ^h 23'	7 ^h 48'	29 ^h 15'	1 ^h 26'	0 ^h 38'	9 ^h 48'	12 ^h 28'	23 ^h 03'	23 ^h 47'	22 ^h 15'	23 ^h 08'	8
S 6	10 55 46	15 ^h 38'06"	11 ^h 01'	18 ^h 23'	29 ^h 31'	8 ^h 29'	29 ^h 27'	1 ^h 30'	0 ^h 40'	9 ^h 50'	12 ^h 28'	23 ^h 03'	23 ^h 44'	22 ^h 22'	23 ^h 09'	9
M 7	10 59 43	16 ^h 38'08"	23 ^h 34'	19 ^h 19'	0 ^h 38'	9 ^h 09'	29 ^h 39'	1 ^h 33'	0 ^h 41'	9 ^h 51'	12 ^h 27'	23 ^h 04'	23 ^h 40'	22 ^h 28'	23 ^h 09'	9
T 8	11 3 39	17 ^h 38'08"	6 ^h 11'	20 ^h 17'	1 ^h 45'	9 ^h 50'	29 ^h 52'	1 ^h 37'	0 ^h 43'	9 ^h 52'	12 ^h 26'	23 ^h 05'	23 ^h 37'	22 ^h 35'	23 ^h 10'	10
W 9	11 7 36	18 ^h 38'07"	18 ^h 42'	21 ^h 18'	2 ^h 52'	10 ^h 30'	0 ^h 44'	1 ^h 40'	0 ^h 44'	9 ^h 53'	12 ^h 25'	23 ^h 05'	23 ^h 34'	22 ^h 42'	23 ^h 11'	11
T 10	11 11 33	19 ^h 38'04"	1 ^h 39'	22 ^h 21'	3 ^h 59'	11 ^h 11'	0 ^h 17'	1 ^h 43'	0 ^h 46'	9 ^h 54'	12 ^h 25'	23 ^h 05'	23 ^h 31'	22 ^h 48'	23 ^h 11'	11
F 11	11 15 29	20 ^h 38'00"	14 ^h 55'	23 ^h 27'	5 ^h 06'	11 ^h 51'	0 ^h 29'	1 ^h 46'	0 ^h 47'	9 ^h 55'	12 ^h 24'	23 ^h 06'	23 ^h 28'	22 ^h 55'	23 ^h 12'	12
S 12	11 19 26	21 ^h 37'54"	28 ^h 33'	24 ^h 35'	6 ^h 12'	12 ^h 32'	0 ^h 42'	1 ^h 49'	0 ^h 48'	9 ^h 56'	12 ^h 23'	23 ^h 06'	23 ^h 24'	23 ^h 02'	23 ^h 13'	13
S 13	11 23 22	22 ^h 37'46"	12 ^h 33'	25 ^h 45'	7 ^h 18'	13 ^h 12'	0 ^h 55'	1 ^h 52'	0 ^h 49'	9 ^h 57'	12 ^h 22'	23 ^h 06'	23 ^h 21'	23 ^h 08'	23 ^h 14'	14
M14	11 27 19	23 ^h 37'37"	26 ^h 53'	26 ^h 57'	8 ^h 24'	13 ^h 53'	1 ^h 08'	1 ^h 55'	0 ^h 50'	9 ^h 58'	12 ^h 21'	23 ^h 06'	23 ^h 18'	23 ^h 15'	23 ^h 16'	16
T 15	11 31 15	24 ^h 37'26"	11 ^h 33'	28 ^h 11'	9 ^h 29'	14 ^h 33'	1 ^h 21'	1 ^h 57'	0 ^h 52'	9 ^h 59'	12 ^h 20'	23 ^h 06'	23 ^h 15'	23 ^h 22'	23 ^h 17'	17
W16	11 35 12	25 ^h 37'13"	26 ^h 27'	29 ^h 27'	10 ^h 35'	15 ^h 14'	1 ^h 34'	2 ^h 00'	0 ^h 53'	10 ^h 00'	12 ^h 19'	23 ^h 06'	23 ^h 12'	23 ^h 28'	23 ^h 18'	18
T 17	11 39 8	26 ^h 36'58"	11 ^h 37'	0 ^h 45'	11 ^h 40'	15 ^h 54'	1 ^h 47'	2 ^h 02'	0 ^h 54'	10 ^h 01'	12 ^h 18'	23 ^h 06'	23 ^h 09'	23 ^h 35'	23 ^h 19'	19
F 18	11 43 5	27 ^h 36'42"	26 ^h 26'	2 ^h 05'	12 ^h 45'	16 ^h 35'	2 ^h 00'	2 ^h 05'	0 ^h 55'	10 ^h 02'	12 ^h 17'	23 ^h 06'	23 ^h 05'	23 ^h 42'	23 ^h 21'	21
S 19	11 47 2	28 ^h 36'23"	11 ^h 15'	3 ^h 26'	13 ^h 49'	17 ^h 15'	2 ^h 13'	2 ^h 07'	0 ^h 55'	10 ^h 02'	12 ^h 16'	23 ^h 06'	23 ^h 02'	23 ^h 48'	23 ^h 22'	22
S 20	11 50 58	29 ^h 36'02"	25 ^h 47'	4 ^h 48'	14 ^h 53'	17 ^h 56'	2 ^h 26'	2 ^h 09'	0 ^h 56'	10 ^h 03'	12 ^h 15'	23 ^h 05'	22 ^h 59'	23 ^h 55'	23 ^h 24'	24
M21	11 54 55	0 ^h 35'40"	9 ^h 56'	6 ^h 13'	15 ^h 57'	18 ^h 36'	2 ^h 39'	2 ^h 11'	0 ^h 57'	10 ^h 04'	12 ^h 14'	23 ^h 05'	22 ^h 56'	24 ^h 02'	23 ^h 26'	26
T 22	11 58 51	1 ^h 35'15"	23 ^h 40'	7 ^h 38'	17 ^h 01'	19 ^h 17'	2 ^h 53'	2 ^h 13'	0 ^h 58'	10 ^h 05'	12 ^h 13'	23 ^h 03'	22 ^h 53'	24 ^h 08'	23 ^h 28'	28
W23	12 2 48	2 ^h 34'47"	6 ^h 57'	9 ^h 06'	18 ^h 04'	19 ^h 57'	3 ^h 06'	2 ^h 15'	0 ^h 59'	10 ^h 05'	12 ^h 12'	23 ^h 02'	22 ^h 50'	24 ^h 15'	23 ^h 29'	29
T 24	12 6 44	3 ^h 34'18"	19 ^h 50'	10 ^h 34'	19 ^h 07'	20 ^h 38'	3 ^h 19'	2 ^h 17'	0 ^h 59'	10 ^h 06'	12 ^h 10'	23 ^h 02'	22 ^h 46'	24 ^h 22'	23 ^h 31'	31
F 25	12 10 41	4 ^h 33'46"	2 ^h 02'	12 ^h 04'	20 ^h 10'	21 ^h 18'	3 ^h 33'	2 ^h 19'	1 ^h 00'	10 ^h 07'	12 ^h 09'	23 ^h 01'	22 ^h 43'	24 ^h 28'	23 ^h 33'	33
S 26	12 14 37	5 ^h 33'12"	14 ^h 34'	13 ^h 36'	21 ^h 12'	21 ^h 59'	3 ^h 46'	2 ^h 20'	1 ^h 00'	10 ^h 07'	12 ^h 08'	23 ^h 02'	22 ^h 40'	24 ^h 35'	23 ^h 35'	35
S 27	12 18 34	6 ^h 32'36"	26 ^h 35'	15 ^h 09'	22 ^h 15'	22 ^h 39'	4 ^h 00'	2 ^h 22'	1 ^h 01'	10 ^h 08'	12 ^h 07'	23 ^h 02'	22 ^h 37'	24 ^h 42'	23 ^h 38'	38
M28	12 22 31	7 ^h 31'57"	8 ^h 27'	16 ^h 43'	23 ^h 16'	23 ^h 20'	4 ^h 13'	2 ^h 23'	1 ^h 01'	10 ^h 08'	12 ^h 05'	23 ^h 03'	22 ^h 34'	24 ^h 48'	23 ^h 40'	40
T 29	12 26 27	8 ^h 31'16"	20 ^h 15'	18 ^h 19'	24 ^h 17'	24 ^h 00'	4 ^h 27'	2 ^h 25'	1 ^h 02'	10 ^h 09'	12 ^h 04'	23 ^h 05'	22 ^h 30'	24 ^h 55'	23 ^h 42'	42
W30	12 30 24	9 ^h 30'33"	2 ^h 11'	19 ^h 56'	25 ^h 18'	24 ^h 41'	4 ^h 41'	2 ^h 26'	1 ^h 02'	10 ^h 09'	12 ^h 03'	23 ^h 06'	22 ^h 27'	25 ^h 02'	23 ^h 45'	45
T 31	12 34 20	10 ^h 29'47"	13 ^h 56'	21 ^h 35'	26 ^h 19'	25 ^h 21'	4 ^h 54'	2 ^h 27'	1 ^h 02'	10 ^h 09'	12 ^h 01'	23 ^h 07'	22 ^h 24'	25 ^h 08'	23 ^h 47'	47

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
T 1	7s35	20n37	3n29	15s43	0n46	9n59	0n47	23s38	0s17	9n57	1s2	22s19	1n7	23s37	0s11	22s8	0n58	0n2	16n22	2s44	2s23	16n50	17n15	6s2
W 2	7 12 16 8	2 36 15 43	0 34 10 29	0 51 23 37	0 18 10 1	1 2 22 19	1 7 23 37	0 11 22 7	0 58 0 2	16 22 2 45	2 24 16 47	17 15 6 1												
T 3	6 49 11 2	1 36 15 42	0 22 10 58	0 56 23 36	0 19 10 6	1 2 22 19	1 7 23 37	0 11 22 7	0 58 0 3	16 23 2 45	2 26 16 45	17 16 6 1												
F 4	6 26 5 32	0 32 15 40	0 11 11 26	1 0 23 35	0 20 10 10	1 2 22 19	1 7 23 37	0 11 22 7	0 58 0 4	16 23 2 46	2 27 16 42	17 16 6 0												
S 5	6 3 0s13	0s34	15 36 0s	1 5 23 34	0 21 10 15	1 2 22 19	1 7 23 37	0 11 22 7	0 58 0 4	16 24 2 46	2 28 16 39	17 16 6 0												
S 6	5 40 6 1	1 40 15 30	0 11 12 23	1 10 23 32	0 22 10 19	1 1 22 19	1 7 23 37	0 11 22 7	0 58 0 5	16 24 2 45	2 30 16 36	17 17 6 0												
M 7	5 17 11 39	2 42 15 23	0 22 12 51	1 14 23 31	0 23 10 24	1 1 22 19	1 7 23 37	0 11 22 7	0 58 0 5	16 25 2 45	2 31 16 33	17 17 5 59												
T 8	4 53 16 56	3 37 15 14	0 32 13 19	1 19 23 29	0 24 10 28	1 1 22 19	1 8 23 37	0 11 22 7	0 58 0 6	16 25 2 45	2 32 16 30	17 18 5 59												
W 9	4 30 21 35	4 22 15 3	0 41 13 47	1 23 23 27	0 25 10 33	1 1 22 18	1 8 23 37	0 11 22 7	0 58 0 7	16 25 2 45	2 33 16 27	17 18 5 58												
T 10	4 6 25 19	4 56 14 51	0 50 14 14	1 28 23 25	0 26 10 37	1 1 22 18	1 8 23 38	0 11 22 7	0 58 0 7	16 26 2 45	2 35 16 24	17 19 5 58												
F 11	3 43 27 48	5 14 14 38	0 59 14 41	1 33 23 22	0 27 10 42	1 1 22 18	1 8 23 38	0 11 22 6	0 58 0 8	16 26 2 45	2 36 16 21	17 19 5 58												
S 12	3 19 28 42	5 16 14 23	1 7 15 7	1 37 23 20	0 28 10 47	1 1 22 18	1 8 23 38	0 11 22 6	0 58 0 9	16 27 2 45	2 37 16 18	17 19 5 57												
S 13	2 56 27 49	5 0 14 7	1 15 15 33	1 42 23 17	0 30 10 51	1 0 22 18	1 8 23 38	0 11 22 6	0 58 0 9	16 27 2 45	2 38 16 15	17 20 5 57												
M14	2 32 25 6	4 24 13 49	1 23 15 59	1 46 23 14	0 31 10 56	1 0 22 18	1 8 23 38	0 11 22 6	0 58 0 10	16 27 2 45	2 40 16 13	17 20 5 56												
T 15	2 8 20 42	3 31 13 30	1 30 16 25	1 51 23 11	0 32 11 0	1 0 22 18	1 8 23 38	0 11 22 6	0 58 0 11	16 28 2 45	2 41 16 10	17 21 5 56												
W16	1 44 14 57	2 23 13 10	1 36 16 50	1 56 23 7	0 33 11 5	1 0 22 18	1 8 23 38	0 11 22 6	0 58 0 11	16 28 2 44	2 42 16 7	17 21 5 56												
T 17	1 21 8 16	1 4 12 48	1 42 17 14	2 0 23 4	0 34 11 10	1 0 22 18	1 8 23 38	0 11 22 6																

SWISS EPHEMERIS for the year 1988

APRIL 1988

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
F 1	12 38 17	11°28'59	25°56	23°15	27°19	26°01	5°08	2°28	1°02	10°10	12°R 0	23°R 7	22°21	25°15	23°50
S 2	12 42 13	12°28'10	8°04	24°56	28°19	26°42	5°22	2°29	1°03	10°10	11°M 59	23°R 7	22°18	25°22	23°52
S 3	12 46 10	13°27'18	20°24	26°39	29°18	27°22	5°36	2°30	1°03	10°10	11°57	23°05	22°15	25°28	23°55
M 4	12 50 6	14°26'24	2°56	28°23	0°11	28°03	5°50	2°31	1°03	10°11	11°56	23°02	22°11	25°35	23°58
T 5	12 54 3	15°25'28	15°40	0°09	1°15	28°43	6°04	2°31	1°R 3	10°11	11°54	22°59	22°08	25°42	24°00
W 6	12 58 0	16°24'30	28°39	1°56	2°13	29°23	6°18	2°32	1°03	10°11	11°53	22°55	22°05	25°48	24°03
T 7	13 1 56	17°23'31	11°15	3°44	3°10	0°04	6°31	2°32	1°03	10°11	11°51	22°52	22°02	25°55	24°06
F 8	13 5 53	18°22'30	25°17	5°34	4°07	0°44	6°45	2°33	1°03	10°11	11°50	22°49	21°59	26°01	24°09
S 9	13 9 49	19°21'27	8°35	7°26	5°04	1°25	6°59	2°33	1°02	10°12	11°48	22°48	21°56	26°08	24°12
S 10	13 13 46	20°20'22	22°52	9°18	6°00	2°05	7°14	2°33	1°02	10°12	11°47	22°D 47	21°52	26°15	24°15
M 11	13 17 42	21°19'16	6°59	11°13	6°55	2°45	7°28	2°R 33	1°02	10°12	11°45	22°48	21°49	26°21	24°18
T 12	13 21 39	22°18'08	21°19	13°09	7°50	3°25	7°42	2°33	1°02	10°R 12	11°44	22°49	21°46	26°28	24°22
W 13	13 25 35	23°16'58	5°49	15°06	8°44	4°06	7°56	2°33	1°01	10°12	11°42	22°51	21°43	26°35	24°25
T 14	13 29 32	24°15'46	20°24	17°05	9°37	4°46	8°10	2°33	1°01	10°12	11°40	22°R 52	21°40	26°41	24°28
F 15	13 33 29	25°14'33	5°00	19°05	10°30	5°26	8°24	2°32	1°00	10°11	11°39	22°51	21°36	26°48	24°32
S 16	13 37 25	26°13'17	19°31	21°07	11°22	6°06	8°38	2°32	1°00	10°11	11°37	22°49	21°33	26°55	24°35
S 17	13 41 22	27°12'00	3°51	23°09	12°14	6°47	8°53	2°31	0°59	10°11	11°36	22°45	21°30	27°01	24°39
M 18	13 45 18	28°10'41	17°54	25°13	13°05	7°27	9°07	2°31	0°58	10°11	11°34	22°40	21°27	27°08	24°43
T 19	13 49 15	29°09'20	1°36	27°19	13°55	8°07	9°21	2°30	0°58	10°11	11°32	22°34	21°24	27°15	24°46
W 20	13 53 11	0°8'57	14°55	29°25	14°44	8°47	9°35	2°29	0°57	10°10	11°31	22°28	21°21	27°21	24°50
T 21	13 57 8	1°6'31	27°51	1°32	15°33	9°27	9°49	2°28	0°56	10°10	11°29	22°23	21°17	27°28	24°54
F 22	14 1 4	2°5'04	10°25	3°39	16°21	10°07	10°04	2°27	0°55	10°10	11°27	22°19	21°14	27°35	24°58
S 23	14 5 1	3°3'34	22°41	5°47	17°08	10°47	10°18	2°26	0°54	10°10	11°26	22°17	21°11	27°41	25°02
S 24	14 8 58	4°0'28	4°24	7°56	17°54	11°27	10°32	2°25	0°54	10°09	11°24	22°D 16	21°08	27°48	25°06
M 25	14 12 54	5°0'28	16°35	10°04	18°39	12°07	10°47	2°24	0°53	10°09	11°22	22°17	21°05	27°55	25°10
T 26	14 16 51	5°58'52	28°24	12°12	19°23	12°47	11°01	2°22	0°52	10°08	11°21	22°18	21°02	28°01	25°14
W 27	14 20 47	6°57'14	10°13	14°19	20°06	13°27	11°15	2°21	0°50	10°08	11°19	22°20	20°58	28°08	25°18
T 28	14 24 44	7°55'34	22°09	16°26	20°48	14°07	11°30	2°19	0°49	10°07	11°17	22°R 20	20°55	28°15	25°22
F 29	14 28 40	8°53'51	4°15	18°31	21°30	14°46	11°44	2°18	0°48	10°07	11°16	22°20	20°52	28°21	25°26
S 30	14 32 37	9°52'07	16°33	20°34	22°10	15°26	11°58	2°16	0°47	10°06	11°14	22°R 17	20°49	28°28	25°30

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
F 1	4n33	1n23	0s16	4s51	2s22	22n35	3n 7	21s48	0s52	12n20	0s58	22s17	1n 9	23s38	0s11	22s 5	0n59	0n22	16n33	2s44	3s 2	15n19	17n29	5s49
S 2	4 56	4s27	1 22	4 10	2 21	22 53	3 11	21 42	0 54	12 24	0 58	22 17	1 9	23 38	0 11	22 5	0 59	0 22	16 34	2 44	3 3	15 16	17 29	5 49
S 3	5 19	10 12	2 25	3 28	2 19	23 10	3 15	21 35	0 55	12 29	0 58	22 17	1 9	23 38	0 11	22 5	0 59	0 23	16 34	2 45	3 5	15 13	17 30	5 49
M 4	5 42	15 39	3 22	2 44	2 17	23 27	3 19	21 29	0 56	12 34	0 57	22 17	1 9	23 38	0 12	22 5	0 59	0 24	16 34	2 46	3 6	15 10	17 30	5 48
T 5	6 4 20	31 4	4 10	2 0	2 15	23 43	3 22	21 22	0 58	12 38	0 57	22 16	1 9	23 38	0 12	22 5	0 59	0 24	16 34	2 47	3 7	15 7	17 31	5 48
W 6	6 27	24 31	4 47	1 15	2 12	23 59	3 26	21 15	0 59	12 43	0 57	22 16	1 9	23 38	0 12	22 5	0 59	0 25	16 35	2 49	3 8	15 4	17 31	5 48
T 7	6 50	27 18	5 8	0 28	2 8	24 14	3 30	21 7	1 0	12 48	0 57	22 16	1 9	23 38	0 12	22 5	0 59	0 25	16 35	2 50	3 10	15 1	17 32	5 47
F 8	7 12	28 35	5 14	0n19	2 4	24 28	3 34	21 0	1 2	12 53	0 57	22 16	1 9	23 38	0 12	22 5	0 59	0 26	16 35	2 51	3 11	14 58	17 32	5 47
S 9	7 35	28 9	5 2	1 7	1 59	24 42	3 37	20 52	1 3	12 57	0 57	22 16	1 9	23 38	0 12	22 5	0 59	0 27	16 35	2 52	3 12	14 55	17 33	5 47
S 10	7 57	25 58	4 32	1 56	1 54	24 56	3 41	20 45	1 4	13 2	0 57	22 16	1 9	23 38	0 12	22 5	0 59	0 27	16 35	2 52	3 13	14 52	17 33	5 46
M 11	8 19	22 10	3 46	2 46	1 49	25 9	3 44	20 37	1 6	13 7	0 57	22 16	1 9	23 38	0 12	22 4	0 59	0 28	16 36	2 51	3 15	14 49	17 34	5 46
T 12	8 41	16 59	2 44	3 37	1 43	25 21	3 47	20 29	1 7	13 11	0 57	22 16	1 9	23 38	0 12	22 4	0 59	0 28	16 36	2 51	3 16	14 46	17 34	5 46
W 13	9 3 10	49 1	3 42	4 28	1 36	25 33	3 50	20 21	1 9	13 16	0 57	22 16	1 9	23 38	0 12	22 4	0 59	0 29	16 36	2 50	3 17	14 43	17 34	5 45
T 14	9 25 4	1 0	13 5	20 1	29 25	45 3	54 20	13 10	10 13	20 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	30 16	36 2	50 3	18 14	40 17	35 5	45 5
F 15	9 46 3n	0 1n	6 6	13 1	21 25	56 3	57 20	4 12	13 25	0 56	22 16	1 9	23 38	0 12	22 4	0 59	0 30	16 36	2 50	3 20	14 37	17 35	5 45	
S 16	10 7 9	48 2	21 7	6 1	13 26	6 3	59 19	56 1	13 13	30 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	31 16	36 2	51 3	21 14	34 17	36 5	44 5
S 17	10 29 16	1 3	25 8	0 1	5 26	16 4	2 19	47 1	14 13	34 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	31 16	36 2	53 3	22 14	31 17	36 5	44 5
M 18	10 50 21	16 4	16 8	5 3	0 56	26 25	4 5	19 38 1	16 13	39 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	32 16	37 2	55 3	23 14	28 17	37 5	44 5
T 19	11 11 25	13 4	50 9	47 0	47 26	34 4	7 19	29 1	17 13	44 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	33 16	37 2	57 3	25 14	25 17	37 5	44 5
W 20	11 31 27	42 5	8 10	41 0	37 26	42 4	9 19	20 1	19 13	48 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	33 16	37 2	59 3	26 14	22 17	38 5	43 5
T 21	11 52 28	35 5	9 11	35 0	27 26	50 4	12 19	11 1	20 13	53 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	34 16	37 3	1 3	27 14	19 17	38 5	43 5
F 22	12 12 27	57 4	56 12	28 0	17 26	57 4	14 19	2 1	22 13	57 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	34 16	37 3	3 3	28 14	15 17	38 5	43 5
S 23	12 32 25	57 4	28 13	21 0	7 27	3 4	15 18	52 1	23 14	2 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	35 16	37 3	4 3	30 14	12 17	39 5	42 5
S 24	12 52 22	48 3	50 14	13 0n	4 27	10 4	17 18	43 1	25 14	6 0	56 22	16 1	9 23	38 0	12 22	4 0	59 0	35 16	37 3	4 3	31 14	9 17	39 5	42 5

SWISS EPHEMERIS for the year 1988

MAY 1988

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	14 36 33	10 ^h 50 ^m 21 ^s	29 ^h 57 ^m 7 ^s	22 ^h 36 ^m 36 ^s	22 ^h 48 ^m 48 ^s	16 ^h 56 ^m 6 ^s	12 ^h 13 ^m 13 ^s	2°R14	0°R46	10°R 6	11°R12	22°R12	20°R46	28 ^h 03 ^m 35 ^s	25 ^h 11 ^m 35 ^s	
M 2	14 40 30	11°48'33"	11 ^h 11 ^m 58 ^s	24°36'	23°26'	16°46'	12°27'	2°312	0°344	10°3 5	11 ^h 11 ^m 11 ^s	22°R 5	20°242	28°41	25°39	
T 3	14 44 26	12°46'43"	8 ^h 27 ^m 58 ^s	26°33'	24°2'	17°25'	12°41'	2°10	0°43	10° 4	11° 9	21°57	20°39	28°48	25°43	
W 4	14 48 23	13°44'52"	8 ^h 27 ^m 27 ^s	28°28'	24°37'	18° 5'	12°56'	2° 8	0°42	10° 4	11° 7	21°48	20°36	28°55	25°48	
T 5	14 52 20	14°42'59"	22° 3'	0 ^h 11 ^m 20 ^s	25°11'	18°44'	13°10'	2° 6	0°40	10° 3	11° 6	21°40	20°33	29° 1	25°52	
F 6	14 56 16	15°41'05"	5 ^h 34 ^m 49 ^s	2° 9'	25°43'	19°24'	13°24'	2° 3	0°39	10° 2	11° 4	21°33	20°30	29° 8	25°57	
S 7	15 0 13	16°39'09"	19°43'	3°55'	26°14'	20° 3'	13°38'	2° 1	0°37	10° 1	11° 2	21°28	20°27	29°15	26° 1	
S 8	15 4 9	17°37'12"	3 ^h 44 ^m 44 ^s	5°37'	26°44'	20°43'	13°53'	1°59	0°36	10° 1	11° 0	21°25	20°23	29°21	26° 6	
M 9	15 8 6	18°35'13"	17°50'	7°16'	27°12'	21°22'	14° 7'	1°56	0°34	10° 0	10°59	21°D24	20°20	29°28	26°11	
T 10	15 12 2	19°33'13"	1 ^h 15 ^m 59 ^s	8°52'	27°38'	22° 1'	14°21'	1°53	0°33	9°59	10°57	21°24	20°17	29°35	26°15	
W 11	15 15 59	20°31'12"	16°10'	10°23'	28° 2'	22°41'	14°36'	1°51	0°31	9°58	10°55	21°R25	20°14	29°41	26°20	
T 12	15 19 56	21°29'10"	0 ^h 12 ^m 22 ^s	11°52'	28°25'	23°20'	14°50'	1°48	0°29	9°57	10°54	21°25	20°11	29°48	26°25	
F 13	15 23 52	22°27'06"	14°32'	13°16'	28°46'	23°59'	15° 4'	1°45	0°28	9°56	10°52	21°23	20° 7	29°54	26°30	
S 14	15 27 49	23°25'01"	28°37'	14°37'	29° 6'	24°38'	15°18'	1°42	0°26	9°55	10°50	21°18	20° 4	0 ^h 11 ^m 1 ^s	26°35	
S 15	15 31 45	24°22'54"	12 ^h 34 ^m 34 ^s	15°53'	29°23'	25°17'	15°33'	1°39	0°24	9°54	10°49	21°11	20° 1	0° 8	26°40	
M 16	15 35 42	25°20'47"	26°19'	17° 6'	29°39'	25°56'	15°47'	1°36	0°22	9°53	10°47	21° 1	19°58	0°14	26°45	
T 17	15 39 38	26°18'37"	9 ^h 11 ^m 47 ^s	18°15'	29°52'	26°35'	16° 1'	1°33	0°20	9°52	10°46	20°51	19°55	0°21	26°49	
W 18	15 43 35	27°16'27"	22°47'	19°20'	0 ^h 3 ^m 3 ^s	27°14'	16°15'	1°30	0°18	9°51	10°44	20°40	19°52	0°28	26°54	
T 19	15 47 31	28°14'14"	5 ^h 34 ^m 48 ^s	20°21'	0°13'	27°52'	16°29'	1°26	0°17	9°50	10°42	20°30	19°48	0°34	27° 0	
F 20	15 51 28	29°12'01"	18°20'	21°17'	0°20'	28°31'	16°44'	1°23	0°15	9°49	10°41	20°21	19°45	0°41	27° 5	
S 21	15 55 25	0 ^h 11 ^m 9 ^s 45	0 ^h 12 ^m 35 ^s	22° 9'	0°24'	29° 9'	16°58'	1°20	0°13	9°48	10°39	20°15	19°42	0°48	27°10	
S 22	15 59 21	1° 7'28"	12°36'	22°57'	0°27'	29°48'	17°12'	1°16	0°11	9°47	10°38	20°11	19°39	0°54	27°15	
M 23	16 3 18	2° 5'10"	24°29'	23°41'	0°R27	0 ^h 12 ^m 26 ^s	17°26'	1°13	0° 9	9°45	10°36	20°10	19°36	1° 1	27°20	
T 24	16 7 14	3° 2'50"	6 ^h 11 ^m 18 ^s	24°20'	0°25'	1° 4'	17°40'	1° 9	0° 6	9°44	10°35	20°D 9	19°33	1° 8	27°25	
W 25	16 11 11	4° 0'28"	18° 8'	24°55'	0°20'	1°42'	17°54'	1° 6	0° 4	9°43	10°33	20°R10	19°29	1°14	27°30	
T 26	16 15 7	4°58'05"	0 ^h 12 ^m 5 ^s	25°25'	0°13'	2°20'	18° 8'	1° 2	0° 2	9°42	10°32	20° 9	19°26	1°21	27°36	
F 27	16 19 4	5°55'40"	12°15'	25°50'	0° 4'	2°58'	18°22'	0°58	0° 0	9°40	10°30	20° 7	19°23	1°28	27°41	
S 28	16 23 0	6°53'14"	24°40'	26°11'	29 ^h 11 ^m 52 ^s	3°36'	18°36'	0°54	29°15 ^s 8	9°39	10°29	20° 3	19°20	1°34	27°46	
S 29	16 26 57	7°50'46"	7 ^h 11 ^m 26 ^s	26°27'	29°37'	4°14'	18°50'	0°50	29°56	9°38	10°27	19°56	19°17	1°41	27°51	
M 30	16 30 54	8°48'18"	20°32'	26°38'	29°20'	4°52'	19° 4'	0°46	29°54	9°37	10°26	19°47	19°13	1°48	27°57	
T 31	16 34 50	9 ^h 11 ^m 45 ^s 48	3 ^h 17 ^m 59 ^s	26 ^h 11 ^m 45 ^s	29 ^h 11 ^m 1 ^s	5 ^h 12 ^m 29 ^s	19 ^h 17 ^m 17 ^s	0°343	29°15 ^s 1	9°35	10 ^h 11 ^m 24 ^s	19 ^h 13 ^m 36 ^s	19 ^h 11 ^m 10 ^s	1 ^h 11 ^m 54 ^s	28 ^h 11 ^m 2 ^s	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
S 1	15n 5	14s 3	3s 5	19n40	1n17	27n38	4n24	17s32	1s36	14n38	0s55	22s16	1n10	23s38	0s12	22s 4
M 2	15 23 19	9 3 55	20 19	1 27 27	40 4 24	17 22	1 38 14	42 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 39 16	37 3 8	3 41 13	45 17 42 5 40
T 3	15 41 23	28 4 34	20 56	1 35 27	42 4 24	17 12	1 39 14	46 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 39 16	37 3 12	3 42 13	42 17 43 5 40
W 4	15 58 26	37 4 58	21 30	1 44 27	43 4 24	17 1	1 41 14	51 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 40 16	37 3 15	3 43 13	38 17 43 5 40
T 5	16 15 28	18 5 6	22 2	1 51 27	44 4 23	16 50	1 43 14	55 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 40 16	37 3 18	3 45 13	35 17 43 5 39
F 6	16 32 28	15 4 57	22 32	1 59 27	44 4 22	16 39	1 44 15	0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 41 16	37 3 21	3 46 13	32 17 44 5 39
S 7	16 49 26	27 4 30	22 59	2 5 27	44 4 21	16 28	1 46 15	4 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 41 16	37 3 23	3 47 13	29 17 44 5 39
S 8	17 5 23	0 3 47	23 23	2 10 27	44 4 20	16 17	1 48 15	8 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 42 16	37 3 24	3 48 13	26 17 44 5 39
M 9	17 22 18	11 2 50	23 45	2 15 27	43 4 18	16 6	1 49 15	12 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 42 16	36 3 25	3 50 13	23 17 45 5 39
T 10	17 37 12	22 1 42	24 4	2 19 27	41 4 16	15 55	1 51 15	17 0 55	22 16	1 10 23	39 0 12	22 5 0 59	0 42 16	36 3 25	3 51 13	20 17 45 5 38
W 11	17 53 5 53	0 28 24	21 2 22	27 39 4 13	15 44 1 53	15 21 0 55	22 16 1 10	23 39 0 12	22 5 0 59	0 43 16	36 3 24 3 52	13 17 17 45 5 38				
T 12	18 8 0n52	0n48 24	36 2 25	27 37 4 11	15 33 1 54	15 25 0 55	22 16 1 10	23 39 0 12	22 5 0 59	0 43 16	36 3 24 3 53	13 14 17 46 5 38				
F 13	18 23 7 35	2 0 24	49 2 26	27 34 4 8	15 21 1 56	15 29 0 55	22 16 1 10	23 39 0 12	22 5 0 59	0 43 16	36 3 25 3 55	13 10 17 46 5 38				
S 14	18 38 13 52	3 5 24	59 2 26	27 31 4 4	15 10 1 58	15 34 0 55	22 16 1 10	23 39 0 12	22 5 0 59	0 44 16	36 3 27 3 56	13 7 17 46 5 38				
S 15	18 52 19 23	3 58 25	7 2 26	27 27 4 1	14 58 2 0	15 38 0 54	22 16 1 10	23 39 0 12	22 5 0 59	0 44 16	36 3 30 3 57	13 4 17 47 5 38				
M 16	19 6 23 48	4 36 25	13 2 25	27 23 3 57	14 47 2 1	15 42 0 54	22 16 1 10	23 39 0 12	22 5 1 0	0 44 16	35 3 34 3 58	13 1 17 47 5 37				
T 17	19 20 26 49	4 57 25	17 2 22	27 19 3 52	14 35 2 3	15 46 0 54	22 16 1 10	23 39 0 12	22 5 1 0	0 45 16	35 3 38 4 0	12 58 17 47 5 37				
W 18	19 33 28 18	5 3 25	20 2 19	27 14 3 47	14 24 2 5	15 50 0 54	22 16 1 10	23 39 0 12	22 5 1 0	0 45 16	35 3 42 4 1	12 55 17 47 5 37				
T 19	19 46 28 11	4 52 25	20 2 15	27 8 3 42	14 12 2 7	15 54 0 54	22 16 1 10	23 39 0 12	22 5 1 0	0 45 16	35 3 46 4 2	12 52 17 48 5 37				
F 20	19 59 26 37	4 28 25	19 2 10	27 3 3 36	14 0 2 9	15 58 0 54	22 16 1 10	23 39 0 12	22 5 1 0	0 45 16	35 3 49 4 3	12 48 17 48 5 37				
S 21	20 11 23 48	3 52 25	17 2 4	26 56 3 30	13 48 2 10	16 2 0 54	22 16 1 10	23 39 0 12	22 5 1 0	0 46 16	34 3 52 4 5	12 45 17 48 5 37				
S 22	20 23 20 0	3 6 25	12 1 57	26 50 3 23	13 37 2 12	16 6 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 46 16	34 3 53 4 6	12 42 17 48 5 37				
M 23	20 35 15 26	2 12 25	7 1 49	26 43 3 16	13 25 2 14	16 10 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 46 16	34 3 54 4 7	12 39 17 49 5 36				
T 24	20 46 10 20	1 13 25	0 1 40	26 35 3 9	13 13 2 16	16 14 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 46 16	34 3 54 4 8	12 36 17 49 5 36				
W 25	20 57 4 51	0 11 24	51 1 31	26 27 3 0	13 1 2 18	16 18 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 46 16	33 3 54 4 10	12 33 17 49 5 36				
T 26	21 8 0s50	0s53 24	42 1 20	26 18 2 52	12 49 2 20	16 22 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 47 16	33 3 54 4 11	12 30 17 49 5 36				
F 27	21 18 6 36	1 54 24	31 1 8	26 9 2 43	12 37 2 22	16 26 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 47 16	33 3 55 4 12	12 26 17 49 5 36				
S 28	21 28 12 14	2 52 24	19 0 56	26 0 2 33	12 25 2 23	16 30 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 47 16	33 3 56 4 13	12 23 17 50 5 36				
S 29	21 37 17 30	3 43 24	7 0 43	25 50 2 23	12 13 2 25	16 33 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 47 16	32 3 59 4 15	12 20 17 50 5 36				
M 30	21 46 22 6	4 23 23	53 0 29	25 39 2 13	12 1 2 27	16 37 0 54	22 17 1 10	23 39 0 12	22 6 1 0	0 47 16	32 4 3 4 16	12 17 17 50 5 36				
T 31	21n55	25s41	4s50	23n38	0n14	25n28	2n 2	11s49	2s29	16n41</						

SWISS EPHEMERIS for the year 1988

JUNE 1988

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	16 38 47	10II43'17	17A45	26°R47	28°R40	6H 7	19B31	0°R39	29°R49	9°R34	10°R23	19°R25	19H 7	2M 1	28II 7	
T 2	16 42 43	11°40'46	1B47	26II45	28II16	6°44	19°45	0°35	29°47	9°32	10M22	19H13	19° 4	2° 8	28°13	
F 3	16 46 40	12°38'13	15°59	26°38	27°51	7°21	19°59	0°30	29°45	9°31	10°20	19° 3	19° 1	2°14	28°18	
S 4	16 50 36	13°35'40	0A16	26°26	27°23	7°58	20°12	0°26	29°42	9°30	10°19	18°56	18°58	2°21	28°24	
S 5	16 54 33	14°33'05	14°34	26°11	26°53	8°35	20°26	0°22	29°40	9°28	10°17	18°51	18°54	2°28	28°29	
M 6	16 58 29	15°30'30	28°49	25°52	26°22	9°12	20°40	0°18	29°38	9°27	10°16	18°49	18°51	2°34	28°35	
T 7	17 2 26	16°27'55	12H59	25°30	25°49	9°49	20°53	0°14	29°35	9°25	10°15	18°49	18°48	2°41	28°40	
W 8	17 6 23	17°25'19	27° 3	25° 4	25°15	10°25	21° 7	0°10	29°33	9°24	10°14	18°49	18°45	2°47	28°46	
T 9	17 10 19	18°22'42	11Y 0	24°36	24°40	11° 2	21°20	0° 5	29°30	9°22	10°12	18°48	18°42	2°54	28°51	
F 10	17 14 16	19°20'04	24°50	24° 6	24° 4	11°38	21°34	0° 1	29°28	9°21	10°11	18°45	18°39	3° 1	28°57	
S 11	17 18 12	20°17'27	8B31	23°34	23°27	12°14	21°47	29A57	29°26	9°19	10°10	18°39	18°35	3° 7	29° 2	
S 12	17 22 9	21°14'49	22° 3	23° 1	22°50	12°50	22° 0	29°52	29°23	9°18	10° 9	18°31	18°32	3°14	29° 8	
M13	17 26 5	22°12'10	5II24	22°27	22°12	13°26	22°14	29°48	29°21	9°16	10° 8	18°20	18°29	3°21	29°13	
T 14	17 30 2	23° 9'30	18°32	21°53	21°35	14° 2	22°27	29°44	29°18	9°15	10° 7	18° 8	18°26	3°27	29°19	
W15	17 33 58	24° 6'50	1B26	21°20	20°57	14°37	22°40	29°39	29°16	9°13	10° 5	17°55	18°23	3°34	29°24	
T 16	17 37 55	25° 4'10	14° 4	20°48	20°21	15°12	22°53	29°35	29°14	9°12	10° 4	17°43	18°20	3°41	29°30	
F 17	17 41 52	26° 1'29	26°27	20°18	19°44	15°47	23° 6	29°30	29°11	9°10	10° 3	17°33	18°16	3°47	29°35	
S 18	17 45 48	26°58'46	8Q37	19°50	19° 9	16°22	23°19	29°26	29° 9	9° 9	10° 2	17°25	18°13	3°54	29°41	
S 19	17 49 45	27°56'04	20°35	19°25	18°35	16°57	23°32	29°21	29° 6	9° 7	10° 1	17°20	18°10	4° 1	29°47	
M20	17 53 41	28°53'20	2M26	19° 2	18° 3	17°31	23°45	29°17	29° 4	9° 6	10° 0	17°17	18° 7	4° 7	29°52	
T 21	17 57 38	29°50'36	14°14	18°44	17°31	18° 6	23°58	29°13	29° 1	9° 4	9°59	17°D16	18° 4	4°14	29°58	
W22	18 1 34	0B47'51	26° 4	18°29	17° 2	18°40	24°11	29° 8	28°59	9° 2	9°59	17°R17	18° 0	4°21	0B 3	
T 23	18 5 31	1°45'05	8A 1	18°18	16°34	19°14	24°24	29° 4	28°56	9° 1	9°58	17°16	17°57	4°27	0° 9	
F 24	18 9 27	2°42'19	20°11	18°11	16° 9	19°47	24°36	28°59	28°54	8°59	9°57	17°15	17°54	4°34	0°15	
S 25	18 13 24	3°39'32	2M38	18°D 9	15°45	20°21	24°49	28°55	28°52	8°58	9°56	17°12	17°51	4°41	0°20	
S 26	18 17 21	4°36'44	15°28	18°12	15°23	20°54	25° 1	28°50	28°49	8°56	9°55	17° 6	17°48	4°47	0°26	
M27	18 21 17	5°33'57	28°43	18°19	15° 4	21°27	25°14	28°46	28°47	8°54	9°54	16°59	17°45	4°54	0°31	
T 28	18 25 14	6°31'08	12A23	18°31	14°47	22° 0	25°26	28°42	28°44	8°53	9°54	16°49	17°41	5° 0	0°37	
W29	18 29 10	7°28'20	26°26	18°48	14°33	22°32	25°39	28°37	28°42	8°51	9°53	16°38	17°38	5° 7	0°42	
T 30	18 33 7	8°25'31	10B49	19II10	14II21	23H 4	25B51	28A33	28A39	8B49	9M52	16H28	17H35	5M14	0B48	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
W 1	22n 3	27s52	5 s 1	23n23	0s 1	25n17	1n51	11s37	2s31	16n45	0s54	22s17	1n 9	23s39	0s13	22s 6
T 2	22 11	28 19	4 54	23 7	0 17	25 5	1 39	11 25	2 33	16 48	0 54	22 17	1 9	23 39	0 13	22 6
F 3	22 19	26 56	4 29	22 50	0 34	24 52	1 26	11 12	2 35	16 52	0 54	22 17	1 9	23 39	0 13	22 7
S 4	22 26	23 47	3 47	22 33	0 51	24 39	1 14	11 0	2 37	16 56	0 54	22 17	1 9	23 39	0 13	22 7
S 5	22 33	19 11	2 50	22 16	1 8	24 25	1 1	10 48	2 39	16 59	0 54	22 17	1 9	23 39	0 13	22 7
M 6	22 39	13 31	1 44	21 58	1 25	24 11	0 48	10 36	2 41	17 3	0 54	22 17	1 9	23 39	0 13	22 7
T 7	22 45	7 10	0 31	21 40	1 42	23 57	0 34	10 24	2 43	17 7	0 54	22 17	1 9	23 39	0 13	22 7
W 8	22 51	0 31	0n43	21 22	1 59	23 42	0 20	10 12	2 45	17 10	0 54	22 17	1 9	23 39	0 13	22 7
T 9	22 56	6n 6	1 54	21 4	2 16	23 26	0 6	10 0	2 47	17 14	0 54	22 17	1 9	23 39	0 13	22 7
F 10	23 1 12	22 58	2 58	20 46	2 33	23 11	0s 8	9 48	2 49	17 17	0 54	22 18	1 9	23 39	0 13	22 7
S 11	23 5 17	21 59	3 51	20 29	2 49	22 55	0 22	9 36	2 51	17 21	0 54	22 18	1 9	23 39	0 13	22 7
S 12	23 9 22	37 4	29 20	12 3	4 22	39 0	36 9	24 2	53 17	24 0	54 22	18 1	9 23	39 0	13 22	7 1
M13	23 13 26	0 4	53 19	56 3	18 22	23 0	50 9	12 2	55 17	27 0	54 22	18 1	9 23	39 0	13 22	8 1
T 14	23 16 27	56 5	0 19	41 3	31 22	6 1	4 9	0 2	57 17	31 0	54 22	18 1	9 23	39 0	13 22	8 1
W15	23 19 28	18 4	52 19	27 3	43 21	50 1	18 8	48 2	59 17	34 0	54 22	18 1	9 23	39 0	13 22	8 1
T 16	23 21 27	10 4	30 19	14 3	54 21	34 1	32 8	37 3	1 17	37 0	54 22	18 1	9 23	39 0	13 22	8 1
F 17	23 23 24	42 3	55 19	2 4	4 21	18 1	45 8	25 3	3 17	41 0	54 22	18 1	9 23	39 0	13 22	8 1
S 18	23 25 21	9 3	10 18	52 4	12 21	2 1	59 8	13 3	5 17	44 0	54 22	18 1	9 23	39 0	13 22	8 1
S 19	23 26 16	47 2	16 18	44 4	18 20	46 2	11 8	2 3	7 17	47 0	54 22	18 1	8 23	39 0	13 22	8 1
M20	23 26 11	49 1	18 18	36 4	24 20	31 2	24 7	50 3	9 17	50 0	54 22	18 1	8 23	39 0	13 22	8 1
T 21	23 27 6	27 0	16 18	31 4	28 20	16 2	36 7	38 3	11 17	54 0	54 22	18 1	8 23	39 0	13 22	8 1
W22	23 26 0	51 0	547	18 27	4 30	20 2	2 47	7 27	3 13	17 57	0 54	22 18	1 8	23 39	0 13	22 9
T 23	23 26 4	50 1	48 18	25 4	31 19	48 2	58 7	16 3	15 18	0 54	22 18	1 8	23 39	0 13	22 9	1 0
F 24	23 25 10	26 2	45 18	25 4	31 19	35 3	9 7	4 3	17 18	3 0	54 22	18 1	8 23	39 0	13 22	9 1
S 25	23 24 15	47 3	36 18	26 4	30 19	23 3	19 6	53 3	20 18	6 0	54 22	18 1	8 23	39 0	13 22	9 1
S 26	23 22 20	35 4	18 18	29 4	27 19	11 3	28 6	42 3	22 18	9 0	54 22	18 1	8 23	39 0	13 22	9 1
M27	23 20 24	33 4	47 18	34 4	23 19	0 3	37 6	31 3	24 18	12 0	54 22	18 1	8 23	39 0	13 22	9 1
T 28	23 17 27	16 5	2 18	40 4	18 18	50 3	46 6	20 3	26 18	15 0	54 22	18 1	8 23	39 0	13 22	9 1
W29	23 14 28	22 4	58 18	47 4	12 18	41 3	54 6	9 3	28 18	18 0	54 22	18 1	8 23	39 0	13 22	9 1
T 30	23n10	27s35	4s36	18n56	4s 5	18n32	4s 1	5s58	3s30	18n20	0s54	22s19	1n 7	23s39	0s13	22s 9

Julian Day Number = 2447313.5, Delta T = 56.02 sec
 Ecliptic obliquity = 23°26'35", Nutation = 0°00'02"
 Ayanamsha: Fagan/Bradley = 24°34'43", Lahiri = 23°41'43"

SWISS EPHEMERIS for the year 1988

JULY 1988

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	18 37 3	9 ^h 22'24"	25 ^h 32'	19 ^h 37'	14 ^h R11	23 ^h 36'	26 ^h 3	28 ^h R29	28 ^h R37	8 ^h R48	9 ^h R52	16 ^h R19	17 ^h 32'	5 ^h m20	0 ^h 54'
S 2	18 41 0	10 ^h 19'53"	10 ^h 37'	20 ^h 8'	14 ^h II 3	24 ^h 8'	26 ^h 15'	28 ^h 24'	28 ^h 35'	8 ^h 346	9 ^h m51	16 ^h 13'	17 ^h 29'	5 ^h 27'	0 ^h 59'
S 3	18 44 57	11 ^h 17'04"	24 ^h 48'	20 ^h 44'	13 ^h 59'	24 ^h 39'	26 ^h 27'	28 ^h 20'	28 ^h 32'	8 ^h 45'	9 ^h 50'	16 ^h 9'	17 ^h 26'	5 ^h 34'	1 ^h 5'
M 4	18 48 53	12 ^h 14'16"	9 ^h 21'	21 ^h 25'	13 ^h 56'	25 ^h 11'	26 ^h 39'	28 ^h 16'	28 ^h 30'	8 ^h 43'	9 ^h 50'	16 ^h 7'	17 ^h 22'	5 ^h 40'	1 ^h 10'
T 5	18 52 50	13 ^h 11'27"	23 ^h 43'	22 ^h 11'	13 ^h D56	25 ^h 41'	26 ^h 51'	28 ^h 12'	28 ^h 28'	8 ^h 41'	9 ^h 49'	16 ^h D 7	17 ^h 19'	5 ^h 47'	1 ^h 16'
W 6	18 56 46	14 ^h 8'39"	7 ^h 51'	23 ^h 2'	13 ^h 58'	26 ^h 12'	27 ^h 3'	28 ^h 8'	28 ^h 25'	8 ^h 40'	9 ^h 49'	16 ^h R 8	17 ^h 16'	5 ^h 54'	1 ^h 21'
T 7	19 0 43	15 ^h 5'51"	21 ^h 45'	23 ^h 56'	14 ^h 2'	26 ^h 42'	27 ^h 15'	28 ^h 3'	28 ^h 23'	8 ^h 38'	9 ^h 48'	16 ^h 8'	17 ^h 13'	6 ^h 0'	1 ^h 27'
F 8	19 4 39	16 ^h 3'03"	5 ^h 24'	24 ^h 56'	14 ^h 9'	27 ^h 12'	27 ^h 26'	27 ^h 59'	28 ^h 21'	8 ^h 37'	9 ^h 48'	16 ^h 6'	17 ^h 10'	6 ^h 7'	1 ^h 32'
S 9	19 8 36	17 ^h 0'16"	18 ^h 50'	26 ^h 0'	14 ^h 18'	27 ^h 42'	27 ^h 38'	27 ^h 55'	28 ^h 18'	8 ^h 35'	9 ^h 48'	16 ^h 2'	17 ^h 6'	6 ^h 14'	1 ^h 38'
S 10	19 12 32	17 ^h 57'29"	2 ^h II 2	27 ^h 8'	14 ^h 29'	28 ^h 11'	27 ^h 49'	27 ^h 51'	28 ^h 16'	8 ^h 33'	9 ^h 47'	15 ^h 56'	17 ^h 3'	6 ^h 20'	1 ^h 43'
M 11	19 16 29	18 ^h 54'43"	15 ^h 2'	28 ^h 21'	14 ^h 41'	28 ^h 40'	28 ^h 1'	27 ^h 47'	28 ^h 14'	8 ^h 32'	9 ^h 47'	15 ^h 48'	17 ^h 0'	6 ^h 27'	1 ^h 49'
T 12	19 20 26	19 ^h 51'57"	27 ^h 49'	29 ^h 38'	14 ^h 56'	29 ^h 9'	28 ^h 12'	27 ^h 43'	28 ^h 12'	8 ^h 30'	9 ^h 47'	15 ^h 38'	16 ^h 57'	6 ^h 34'	1 ^h 54'
W 13	19 24 22	20 ^h 49'12"	10 ^h 24'	0 ^h 59'	15 ^h 13'	29 ^h 37'	28 ^h 23'	27 ^h 39'	28 ^h 9'	8 ^h 29'	9 ^h 46'	15 ^h 29'	16 ^h 54'	6 ^h 40'	2 ^h 0'
T 14	19 28 19	21 ^h 46'26"	22 ^h 46'	2 ^h 24'	15 ^h 32'	0 ^h Y 5	28 ^h 34'	27 ^h 35'	28 ^h 7'	8 ^h 27'	9 ^h 46'	15 ^h 19'	16 ^h 51'	6 ^h 47'	2 ^h 5'
F 15	19 32 15	22 ^h 43'41"	4 ^h 58'	3 ^h 54'	15 ^h 53'	0 ^h 32'	28 ^h 46'	27 ^h 32'	28 ^h 5'	8 ^h 25'	9 ^h 46'	15 ^h 11'	16 ^h 47'	6 ^h 53'	2 ^h 10'
S 16	19 36 12	23 ^h 40'57"	16 ^h 59'	5 ^h 27'	16 ^h 15'	0 ^h 59'	28 ^h 56'	27 ^h 28'	28 ^h 3'	8 ^h 24'	9 ^h 46'	15 ^h 6'	16 ^h 44'	7 ^h 0'	2 ^h 16'
S 17	19 40 8	24 ^h 38'12"	28 ^h 52'	7 ^h 4'	16 ^h 39'	1 ^h 26'	29 ^h 7'	27 ^h 24'	28 ^h 1'	8 ^h 22'	9 ^h 46'	15 ^h 2'	16 ^h 41'	7 ^h 7'	2 ^h 21'
M 18	19 44 5	25 ^h 35'28"	10 ^h m40	8 ^h 45'	17 ^h 4'	1 ^h 52'	29 ^h 18'	27 ^h 21'	27 ^h 59'	8 ^h 21'	9 ^h 46'	15 ^h D 0	16 ^h 38'	7 ^h 13'	2 ^h 26'
T 19	19 48 1	26 ^h 32'44"	22 ^h 27'	10 ^h 29'	17 ^h 31'	2 ^h 18'	29 ^h 29'	27 ^h 17'	27 ^h 57'	8 ^h 19'	9 ^h 46'	15 ^h 1'	16 ^h 35'	7 ^h 20'	2 ^h 32'
W 20	19 51 58	27 ^h 30'00"	4 ^h 16'	12 ^h 17'	18 ^h 0'	2 ^h 43'	29 ^h 39'	27 ^h 13'	27 ^h 55'	8 ^h 18'	9 ^h D46	15 ^h 2'	16 ^h 32'	7 ^h 27'	2 ^h 37'
T 21	19 55 55	28 ^h 27'16"	16 ^h 12'	14 ^h 8'	18 ^h 30'	3 ^h 8'	29 ^h 50'	27 ^h 10'	27 ^h 53'	8 ^h 16'	9 ^h 46'	15 ^h 3'	16 ^h 28'	7 ^h 33'	2 ^h 42'
F 22	19 59 51	29 ^h 24'33"	28 ^h 21'	16 ^h 1'	19 ^h 2'	3 ^h 32'	0 ^h II 0	27 ^h 7'	27 ^h 51'	8 ^h 15'	9 ^h 46'	15 ^h R 4	16 ^h 25'	7 ^h 40'	2 ^h 47'
S 23	20 3 48	0 ^h 21'50"	10 ^h m48	17 ^h 58'	19 ^h 35'	3 ^h 56'	0 ^h 10'	27 ^h 3'	27 ^h 49'	8 ^h 13'	9 ^h 46'	15 ^h 3'	16 ^h 22'	7 ^h 47'	2 ^h 53'
S 24	20 7 44	1 ^h 19'08"	23 ^h 36'	19 ^h 56'	20 ^h 9'	4 ^h 20'	0 ^h 20'	27 ^h 0'	27 ^h 47'	8 ^h 12'	9 ^h 46'	15 ^h 1'	16 ^h 19'	7 ^h 53'	2 ^h 58'
M 25	20 11 41	2 ^h 16'25"	6 ^h 25'	21 ^h 57'	20 ^h 44'	4 ^h 43'	0 ^h 30'	26 ^h 57'	27 ^h 45'	8 ^h 10'	9 ^h 46'	14 ^h 57'	16 ^h 16'	8 ^h 0'	3 ^h 3'
T 26	20 15 37	3 ^h 13'44"	20 ^h 33'	24 ^h 0'	21 ^h 21'	5 ^h 5'	0 ^h 40'	26 ^h 54'	27 ^h 43'	8 ^h 9'	9 ^h 46'	14 ^h 52'	16 ^h 12'	8 ^h 7'	3 ^h 8'
W 27	20 19 34	4 ^h 11'02"	4 ^h 32'	26 ^h 4'	21 ^h 59'	5 ^h 28'	0 ^h 50'	26 ^h 51'	27 ^h 41'	8 ^h 8'	9 ^h 46'	14 ^h 45'	16 ^h 9'	8 ^h 13'	3 ^h 13'
T 28	20 23 30	5 ^h 8'22"	19 ^h 15'	28 ^h 8'	22 ^h 38'	5 ^h 49'	1 ^h 0'	26 ^h 48'	27 ^h 40'	8 ^h 6'	9 ^h 47'	14 ^h 40'	16 ^h 6'	8 ^h 20'	3 ^h 18'
F 29	20 27 27	6 ^h 5'42"	4 ^h 6'	0 ^h 14'	23 ^h 18'	6 ^h 10'	1 ^h 9'	26 ^h 45'	27 ^h 38'	8 ^h 5'	9 ^h 47'	14 ^h 34'	16 ^h 3'	8 ^h 27'	3 ^h 23'
S 30	20 31 24	7 ^h 3'02"	19 ^h 7'	2 ^h 20'	23 ^h 59'	6 ^h 30'	1 ^h 19'	26 ^h 42'	27 ^h 36'	8 ^h 3'	9 ^h 47'	14 ^h 31'	16 ^h 0'	8 ^h 33'	3 ^h 28'
S 31	20 35 20	8 ^h 0'24"	4 ^h 8'	4 ^h 26'	24 ^h II41	6 ^h Y50	1 ^h II28	26 ^h 39'	27 ^h 34'	8 ^h 2	9 ^h m48	14 ^h 29'	15 ^h 57'	8 ^h m40	3 ^h 33'

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
F 1	23n 7	24s55	3s56	19n 5	3s57	18n24	4s 8	5s47	3s32	18n23	0s54	22s19	1n 7	23s39	0s13	22s10	1n 0	0n44	16n18	5s24	4s56	10n34	17n50	5s37
S 2	23 2	20 35	2 59	19 16	3 49	18 17	4 14	5 37	3 34	18 26	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 44	16 18	5 26	4 57	10 31	17 50	5 37
S 3	22 58	15 0	1 51	19 28	3 39	18 11	4 20	5 26	3 36	18 29	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 43	16 17	5 28	4 58	10 28	17 49	5 37
M 4	22 53	8 37	0 36	19 41	3 29	18 5	4 25	5 16	3 39	18 32	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 43	16 17	5 29	4 59	10 24	17 49	5 37
T 5	22 47	1 53	0n40	19 54	3 19	18 0	4 30	5 5	3 41	18 34	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 43	16 16	5 29	5 1	10 21	17 49	5 37
W 6	22 42	4n51	1 53	20 8	3 7	17 56	4 34	4 55	3 43	18 37	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 42	16 16	5 28	5 2	10 18	17 49	5 37
T 7	22 35	11 14	2 58	20 23	2 56	17 53	4 38	4 45	3 45	18 40	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 42	16 15	5 28	5 3	10 15	17 49	5 38
F 8	22 29	16 58	3 52	20 37	2 44	17 50	4 42	4 35	3 47	18 42	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 42	16 14	5 29	5 4	10 11	17 48	5 38
S 9	22 22	21 47	4 32	20 52	2 31	17 48	4 45	4 25	3 49	18 45	0 55	22 19	1 7	23 39	0 13	22 10	1 0	0 41	16 14	5 30	5 6	10 8	17 48	5 38
S 10	22 14	25 24	4 56	21 6	2 18	17 47	4 47	4 16	3 51	18 47	0 55	22 19	1 6	23 39	0 13	22 11	1 0	0 41	16 13	5 33	5 7	10 5	17 48	5 38
M 11	22 7	27 39	5 5	21 21	2 5	17 46	4 50	4 6	3 54	18 50	0 55	22 19	1 6	23 39	0 13	22 11	1 0	0 40	16 13	5 36	5 8	10 1	17 48	5 38
T 12	21 58	28 24	4 58	21 34	1 52	17 46	4 52	3 57	3 56	18 52	0 55	22 19	1 6	23 39	0 13	22 11	1 0	0 40	16 12	5 40	5 9	9 58	17 47	5 38
W 13	21 50	27 38	4 37	21 48	1 39	17 46	4 53	3 47	3 58	18 55	0 55	22 19	1 6	23 39	0 13	22 11	1 0	0 39	16 12	5 44	5 11	9 55	17 47	5 39
T 14	21 41	25 31	4 3	22 0	1 25	17 47	4 54	3 38	4 0	18 57	0 55	22 19	1 6	23 39	0 13	22 11	0 5							

SWISS EPHEMERIS for the year 1988

AUGUST 1988

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	20 39 17	8Ω57'46	19♋ 3	6Ω32	25♈24	7♃10	1♈37	26°R36	27°R33	8°R 1	9♈48	14°D28	15♋53	8♃46	3♁38
T 2	20 43 13	9°55'09	3♃43	8°38	26° 8	7°28	1°46	26♃34	27♃31	7♁59	9°48	14♋29	15°50	8°53	3°43
W 3	20 47 10	10°52'34	18° 4	10°43	26°53	7°47	1°55	26°31	27°30	7°58	9°49	14°31	15°47	9° 0	3°48
T 4	20 51 6	11°50'00	2♁ 5	12°47	27°39	8° 4	2° 4	26°29	27°28	7°57	9°49	14°32	15°44	9° 6	3°53
F 5	20 55 3	12°47'27	15°44	14°50	28°26	8°21	2°13	26°26	27°27	7°55	9°50	14°R32	15°41	9°13	3°58
S 6	20 58 59	13°44'55	29° 4	16°52	29°13	8°37	2°21	26°24	27°25	7°54	9°50	14°31	15°37	9°20	4° 2
S 7	21 2 56	14°42'25	12♈ 5	18°53	0♁ 1	8°53	2°30	26°22	27°24	7°53	9°51	14°29	15°34	9°26	4° 7
M 8	21 6 53	15°39'56	24°50	20°53	0°50	9° 8	2°38	26°20	27°22	7°52	9°52	14°25	15°31	9°33	4°12
T 9	21 10 49	16°37'28	7♁20	22°51	1°40	9°22	2°46	26°18	27°21	7°51	9°52	14°21	15°28	9°40	4°16
W10	21 14 46	17°35'02	19°39	24°48	2°30	9°36	2°54	26°16	27°20	7°49	9°53	14°17	15°25	9°46	4°21
T 11	21 18 42	18°32'37	1♁48	26°44	3°21	9°48	3° 2	26°14	27°19	7°48	9°54	14°12	15°22	9°53	4°25
F 12	21 22 39	19°30'13	13°48	28°38	4°13	10° 1	3°10	26°12	27°17	7°47	9°54	14° 9	15°18	10° 0	4°30
S 13	21 26 35	20°27'50	25°41	0♃30	5° 6	10°12	3°18	26°10	27°16	7°46	9°55	14° 7	15°15	10° 6	4°34
S 14	21 30 32	21°25'28	7♃30	2°22	5°59	10°22	3°25	26° 9	27°15	7°45	9°56	14° 5	15°12	10°13	4°39
M15	21 34 29	22°23'08	19°16	4°11	6°52	10°32	3°33	26° 7	27°14	7°44	9°57	14°D 5	15° 9	10°20	4°43
T 16	21 38 25	23°20'48	1♁ 3	5°59	7°46	10°41	3°40	26° 6	27°13	7°43	9°58	14° 6	15° 6	10°26	4°47
W17	21 42 22	24°18'30	12°54	7°46	8°41	10°50	3°47	26° 4	27°12	7°42	9°59	14° 7	15° 3	10°33	4°52
T 18	21 46 18	25°16'12	24°52	9°31	9°36	10°57	3°54	26° 3	27°11	7°41	10° 0	14° 9	14°59	10°39	4°56
F 19	21 50 15	26°13'56	7♈ 1	11°15	10°32	11° 4	4° 0	26° 2	27°10	7°40	10° 1	14°10	14°56	10°46	5° 0
S 20	21 54 11	27°11'41	19°27	12°58	11°28	11°10	4° 7	26° 1	27° 9	7°39	10° 2	14°11	14°53	10°53	5° 4
S 21	21 58 8	28° 9'28	2♃12	14°39	12°24	11°15	4°13	26° 0	27° 9	7°38	10° 3	14°R11	14°50	10°59	5° 8
M22	22 2 4	29° 7'15	15°21	16°18	13°22	11°19	4°20	25°59	27° 8	7°37	10° 4	14°11	14°47	11° 6	5°12
T 23	22 6 1	0♃ 5'03	28°57	17°56	14°19	11°22	4°26	25°58	27° 7	7°37	10° 5	14°10	14°43	11°13	5°16
W24	22 9 57	1° 2'53	13♁ 0	19°33	15°17	11°25	4°32	25°58	27° 7	7°36	10° 6	14° 8	14°40	11°19	5°20
T 25	22 13 54	2° 0'44	27°30	21° 9	16°16	11°27	4°38	25°57	27° 6	7°35	10° 7	14° 6	14°37	11°26	5°24
F 26	22 17 51	2°58'36	12♁21	22°43	17°14	11°28	4°43	25°57	27° 5	7°34	10° 9	14° 5	14°34	11°33	5°28
S 27	22 21 47	3°56'30	27°27	24°16	18°14	11°R28	4°49	25°56	27° 5	7°34	10°10	14° 4	14°31	11°39	5°31
S 28	22 25 44	4°54'25	12♋40	25°47	19°13	11°27	4°54	25°56	27° 4	7°33	10°11	14°D 4	14°28	11°46	5°35
M29	22 29 40	5°52'21	27°49	27°17	20°13	11°25	4°59	25°56	27° 4	7°32	10°12	14° 4	14°24	11°53	5°39
T 30	22 33 37	6°50'20	12♃46	28°46	21°14	11°23	5° 4	25°D56	27° 4	7°32	10°14	14° 5	14°21	11°59	5°42
W31	22 37 33	7♃48'20	27♃23	0♁13	22♁15	11♃20	5♈ 9	25♃56	27♃ 3	7♁31	10♈15	14♋ 5	14♋18	12♃ 6	5♁46

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	18n 1	3s57	0n25	20n11	1n36	18n50	4s32	1s24	4s38	19n34	0s56	22s21	1n 3	23s38	0s13	22s13	0n59	0n28	16n 0	6s 6	5s35	8n49	17n40	5s44
T 2	17 46	3n 3	1 43	19 42	1 39	18 54	4 29	1 19	4 40	19 36	0 56	22 21	1 3	23 38	0 13	22 13	0 59	0 27	16 0	6 6	5 36	8 46	17 39	5 44
W 3	17 30	9 45	2 53	19 11	1 42	18 59	4 26	1 14	4 41	19 38	0 56	22 21	1 3	23 38	0 13	22 13	0 59	0 27	16 0	6 6	5 36	8 46	17 39	5 44
T 4	17 15	15 49	3 51	18 38	1 44	19 3	4 23	1 8	4 43	19 39	0 56	22 21	1 3	23 38	0 13	22 13	0 59	0 26	15 59	6 5	5 38	8 42	17 39	5 45
F 5	16 58	20 56	4 35	18 4	1 45	19 7	4 19	1 3	4 45	19 41	0 57	22 21	1 3	23 38	0 13	22 14	0 59	0 26	15 58	6 5	5 39	8 39	17 38	5 45
S 6	16 42	24 51	5 2	17 28	1 46	19 11	4 16	0 59	4 47	19 43	0 57	22 21	1 3	23 38	0 13	22 14	0 59	0 25	15 58	6 6	5 40	8 36	17 38	5 45
S 7	16 25	27 25	5 13	16 51	1 46	19 15	4 12	0 54	4 49	19 44	0 57	22 21	1 2	23 38	0 13	22 14	0 59	0 24	15 57	6 7	5 41	8 33	17 37	5 46
M 8	16 9	28 28	5 8	16 12	1 45	19 18	4 8	0 50	4 51	19 46	0 57	22 21	1 2	23 38	0 13	22 14	0 59	0 24	15 57	6 8	5 43	8 29	17 37	5 46
T 9	15 51	28 2	4 48	15 32	1 44	19 21	4 4	0 46	4 53	19 47	0 57	22 21	1 2	23 38	0 13	22 14	0 59	0 23	15 56	6 10	5 44	8 26	17 36	5 46
W10	15 34	26 13	4 16	14 51	1 42	19 25	4 1	0 43	4 54	19 49	0 57	22 22	1 2	23 38	0 13	22 14	0 59	0 22	15 56	6 11	5 45	8 23	17 36	5 47
T 11	15 16	23 12	3 32	14 10	1 40	19 28	3 57	0 39	4 56	19 50	0 57	22 22	1 2	23 38	0 13	22 14	0 59	0 21	15 55	6 13	5 46	8 19	17 35	5 47
F 12	14 58	19 14	2 39	13 28	1 37	19 30	3 52	0 36	4 58	19 52	0 57	22 22	1 2	23 38	0 13	22 14	0 59	0 21	15 54	6 14	5 47	8 16	17 35	5 48
S 13	14 40	14 32	1 40	12 45	1 33	19 33	3 48	0 33	4 59	19 53	0 57	22 22	1 1	23 38	0 13	22 14	0 59	0 20	15 54	6 15	5 49	8 13	17 34	5 48
S 14	14 22	9 19	0 36	12 1	1 29	19 35	3 44	0 30	5 1	19 54	0 57	22 22	1 1	23 38	0 13	22 14	0 59	0 19	15 53	6 16	5 50	8 9	17 34	5 48
M15	14 3	3 49	0s29	11 17	1 25	19 36	3 40	0 28	5 3	19 56	0 57	22 22	1 1	23 38	0 13	22 14	0 59	0 18	15 53	6 16	5 51	8 6	17 33	5 49
T 16	13 44	1s50	1 32	10 33	1 20	19 38	3 35	0 26	5 4	19 57	0 57	22 22	1 1	23 38	0 13	22 15	0 59	0 17	15 52	6 15	5 52	8 3	17 32	5 49
W17	13 25	7 26	2 33	9 49	1 15	19 39	3 31	0 24	5 5	19 58	0 58	22 22	1 1	23 38	0 13	22 15	0 59	0 17	15 52	6 15	5 54	7 59	17 32	5 50
T 18	13 6	12 50	3 27	9 4	1 9	19 40	3 26	0 22	5 7	19 59	0 58	22 23	1 1	23 38	0 13	22 15	0 59	0 16	15 51	6 14	5 55	7 56	17 31	5 50
F 19	12 47	17 50	4 13	8 19	1 3	19 40	3 22	0 21	5 8	20 0	0 58	22 23	1 0	23 38	0 13	22 15	0 59	0 15	15 50	6 14	5 56	7 53	17 31	5 50
S 20	12 27	22 12	4 48	7 34	0 57	19 40	3 17	0 20	5 9	20 2	0 58	22 23	1 0	23 38	0 13	22 15	0 58	0 14	15 50	6 13	5 57	7 49	17 30	5 51
S 21	12 7	25 40	5 10	6 50	0 51	19 40	3 13	0 19	5 11	20 3	0 58	22 23	1 0	23 38	0 13	22 15	0 58	0 13	15 49	6 13	5 59	7 46	17 30	5 51
M22	11 47	27 53	5 17	6 5	0 44	19 39	3 8	0 18	5 12	20 4	0 58	22 23	1 0	23 38	0 13	22 15	0 58	0 12	15 49	6 14	6 0	7 43	17 29	5 52
T 23	11 27	28 33	5 6	5 20	0 37	19 38	3 3	0 18	5 13	20 5	0 58	22 23	1 0	23 38	0 13	22 15	0 58	0 12	15 48	6 14	6 1	7 39	17 28	5 52
W24	11 6	27 25	4 38	4 36	0 30	19 37	2 58	0 18	5 14	20 6	0 58	22 23	1 0	23 38	0 13	22 15	0 58	0 11	15 48	6 15	6 2	7 36	17 28	5 53
T 25	10 46	24 26	3 51	3 51	0 22	19 35	2 54	0 18	5 15	20 7	0 58	22 24	0 59	23 38	0 13	22 15	0 58	0 10	15 47	6 15	6 3	7 33	17 27	5 53
F 26	10 25	19 46	2 47	3 7	0 15	19 32	2 49	0 18	5 16	20 8	0 58	22 24	0 59	23 38	0 13	22 15	0 58	0 9	15 47	6 16	6 5	7 29	17 27	5 54
S 27	10 4	13 47	1 31	2 23	0 7	19 30	2 44	0 19	5 16	20 9	0 59	22 24	0 59	23 38	0 13	22 16	0 58	0 8	15 46	6 16	6 6	7 26	17 26	5 54
S 28	9 43	6 56	0 8	1 40	0s 1	19 26	2 39	0 20	5 17	20 9	0 59	22 24	0 59	23 38	0 13	22 16	0 58	0 7	15 46	6 16	6 7	7 23	17 25	5 54
M29	9 22	0n17	1n16	0 57	0 9	19 23	2 34	0 21	5 17	20 10														

SWISS EPHEMERIS for the year 1988

SEPTEMBER 1988

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	22 41 30	8♎46'22	11♏36	1♌39	23♊16	11°R16	5♁13	25♌56	27°R 3	7°R30	10♎16	14♋6	14♋15	12♎12	5♊49	
F 2	22 45 26	9°44'26	25°24	3° 3	24°17	11°V11	5°18	25°56	27°R 3	7♁30	10°18	14° 6	14°12	12°19	5°53	
S 3	22 49 23	10°42'32	8♁46	4°26	25°19	11° 5	5°22	25°56	27° 3	7°29	10°19	14°R 6	14° 9	12°26	5°56	
S 4	22 53 20	11°40'40	21°44	5°48	26°21	10°58	5°26	25°57	27° 3	7°29	10°21	14° 6	14° 5	12°32	5°59	
M 5	22 57 16	12°38'50	4♊23	7° 8	27°24	10°51	5°30	25°57	27°D 3	7°28	10°22	14° 6	14° 2	12°39	6° 2	
T 6	23 1 13	13°37'02	16°44	8°27	28°26	10°42	5°34	25°58	27° 3	7°28	10°24	14°D 6	13°59	12°46	6° 6	
W 7	23 5 9	14°35'16	28°53	9°44	29°29	10°33	5°37	25°59	27° 3	7°27	10°25	14° 6	13°56	12°52	6° 9	
T 8	23 9 6	15°33'32	10♌51	10°59	0♏33	10°23	5°41	25°59	27° 3	7°27	10°27	14° 6	13°53	12°59	6°12	
F 9	23 13 2	16°31'49	22°43	12°13	1°36	10°13	5°44	26° 0	27° 3	7°27	10°29	14° 6	13°49	13° 6	6°15	
S 10	23 16 59	17°30'09	4♎31	13°25	2°40	10° 2	5°47	26° 1	27° 3	7°26	10°30	14° 7	13°46	13°12	6°17	
S 11	23 20 55	18°28'30	16°18	14°35	3°44	9°50	5°49	26° 2	27° 3	7°26	10°32	14°R 7	13°43	13°19	6°20	
M12	23 24 52	19°26'53	28° 6	15°43	4°49	9°37	5°52	26° 3	27° 4	7°26	10°34	14° 6	13°40	13°26	6°23	
T 13	23 28 49	20°25'18	9♌57	16°49	5°54	9°24	5°54	26° 5	27° 4	7°26	10°35	14° 6	13°37	13°32	6°26	
W14	23 32 45	21°23'45	21°54	17°52	6°58	9°10	5°57	26° 6	27° 5	7°26	10°37	14° 5	13°34	13°39	6°28	
T 15	23 36 42	22°22'14	3♎59	18°54	8° 4	8°55	5°59	26° 8	27° 5	7°25	10°39	14° 4	13°30	13°45	6°31	
F 16	23 40 38	23°20'44	16°15	19°53	9° 9	8°40	6° 0	26° 9	27° 6	7°25	10°41	14° 3	13°27	13°52	6°33	
S 17	23 44 35	24°19'16	28°44	20°49	10°15	8°25	6° 2	26°11	27° 6	7°25	10°42	14° 2	13°24	13°59	6°35	
S 18	23 48 31	25°17'50	11♌29	21°43	11°21	8° 9	6° 3	26°13	27° 7	7°25	10°44	14° 1	13°21	14° 5	6°38	
M19	23 52 28	26°16'25	24°35	22°33	12°27	7°53	6° 5	26°14	27° 7	7°D25	10°46	14°D 1	13°18	14°12	6°40	
T 20	23 56 24	27°15'02	8♁ 2	23°20	13°33	7°36	6° 6	26°16	27° 8	7°25	10°48	14° 1	13°15	14°19	6°42	
W21	0 0 21	28°13'41	21°54	24° 3	14°39	7°19	6° 7	26°18	27° 9	7°25	10°50	14° 1	13°11	14°25	6°44	
T 22	0 4 18	29°12'21	6♁10	24°43	15°46	7° 2	6° 7	26°21	27°10	7°25	10°52	14° 3	13° 8	14°32	6°46	
F 23	0 8 14	0♌11'03	20°48	25°19	16°53	6°45	6° 8	26°23	27°11	7°25	10°54	14° 4	13° 5	14°39	6°48	
S 24	0 12 11	1° 9'47	5♋44	25°50	18° 0	6°27	6° 8	26°25	27°12	7°26	10°56	14° 4	13° 2	14°45	6°50	
S 25	0 16 7	2° 8'33	20°51	26°16	19° 8	6° 9	6°R 8	26°28	27°12	7°26	10°58	14°R 4	12°59	14°52	6°52	
M26	0 20 4	3° 7'20	6°V 0	26°36	20°15	5°52	6° 8	26°30	27°14	7°26	11° 0	14° 4	12°55	14°59	6°53	
T 27	0 24 0	4° 6'09	21° 3	26°52	21°23	5°34	6° 7	26°33	27°15	7°26	11° 2	14° 2	12°52	15° 5	6°55	
W28	0 27 57	5° 5'01	5♏50	27° 1	22°31	5°16	6° 7	26°35	27°16	7°27	11° 4	13°59	12°49	15°12	6°56	
T 29	0 31 53	6° 3'55	20°14	27°R 3	23°39	4°59	6° 6	26°38	27°17	7°27	11° 6	13°56	12°46	15°19	6°58	
F 30	0 35 50	7♌ 2'51	4♁11	26♌59	24♌47	4°V41	6♁ 5	26♌41	27♌18	7♁27	11♎ 8	13♋53	12♋43	15♎25	6♊59	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	8n17	19n34	4n28	1s10	0s34	19n 9	2s19	0s26	5s18	20n12	0s59	22s25	0n58	23s38	0s13	22s16
F 2	7 55	23 59	5 1	1 52	0 42	19 3	2 14	0 28	5 19	20 13	0 59	22 25	0 58	23 38	0 13	22 16
S 3	7 33	26 58	5 16	2 32	0 51	18 57	2 9	0 30	5 19	20 14	0 59	22 25	0 58	23 38	0 13	22 16
S 4	7 11	28 25	5 15	3 13	0 59	18 51	2 4	0 33	5 18	20 14	0 59	22 25	0 58	23 38	0 13	22 16
M 5	6 49	28 20	4 58	3 52	1 8	18 44	1 59	0 35	5 18	20 15	0 59	22 25	0 58	23 38	0 13	22 16
T 6	6 27	26 49	4 28	4 31	1 17	18 37	1 54	0 38	5 18	20 16	1 0	22 26	0 57	23 38	0 13	22 16
W 7	6 4 24	4 3 46	5 10	1 25	18 29	1 50	0 41	5 17	20 16	1 0	22 26	0 57	23 38	0 13	22 16	
T 8	5 42	20 19	2 55	5 47	1 34	18 20	1 45	0 45	5 17	20 17	1 0	22 26	0 57	23 38	0 13	22 16
F 9	5 19	15 46	1 56	6 24	1 42	18 11	1 40	0 48	5 16	20 17	1 0	22 26	0 57	23 38	0 13	22 16
S 10	4 56	10 41	0 53	7 0	1 51	18 2	1 35	0 52	5 15	20 17	1 0	22 26	0 57	23 38	0 13	22 16
S 11	4 34	5 13	0s12	7 35	1 59	17 52	1 30	0 55	5 14	20 18	1 0	22 27	0 57	23 38	0 13	22 17
M12	4 11	0s25	1 17	8 9	2 8	17 41	1 25	0 59	5 13	20 18	1 0	22 27	0 56	23 38	0 13	22 17
T 13	3 48	6 4	2 19	8 42	2 16	17 31	1 20	1 3	5 12	20 18	1 0	22 27	0 56	23 38	0 13	22 17
W14	3 25	11 33	3 15	9 14	2 24	17 19	1 15	1 7	5 10	20 19	1 0	22 27	0 56	23 38	0 13	22 17
T 15	3 2	16 39	4 3	9 45	2 32	17 7	1 10	1 11	5 9	20 19	1 0	22 27	0 56	23 38	0 13	22 17
F 16	2 39	21 10	4 41	10 14	2 40	16 55	1 6	1 16	5 7	20 19	1 1	22 28	0 56	23 38	0 13	22 17
S 17	2 15	24 51	5 6	10 43	2 47	16 42	1 1	1 20	5 5	20 19	1 1	22 28	0 56	23 38	0 13	22 17
S 18	1 52	27 23	5 17	11 9	2 54	16 29	0 56	1 24	5 3	20 20	1 1	22 28	0 55	23 38	0 13	22 17
M19	1 29	28 31	5 12	11 35	3 1	16 15	0 51	1 29	5 1	20 20	1 1	22 28	0 55	23 38	0 13	22 17
T 20	1 6	28 1	4 50	11 59	3 8	16 1	0 47	1 33	4 58	20 20	1 1	22 28	0 55	23 38	0 13	22 17
W21	0 42	25 47	4 10	12 21	3 14	15 46	0 42	1 37	4 56	20 20	1 1	22 29	0 55	23 38	0 13	22 17
T 22	0 19	21 53	3 15	12 41	3 20	15 31	0 37	1 42	4 53	20 20	1 1	22 29	0 55	23 38	0 13	22 17
F 23	0s 4	16 33	2 5	12 59	3 25	15 15	0 33	1 46	4 50	20 20	1 1	22 29	0 55	23 38	0 13	22 17
S 24	0 28	10 8	0 46	13 15	3 30	14 59	0 28	1 50	4 47	20 20	1 1	22 29	0 54	23 38	0 13	22 17
S 25	0 51	3 3	0n37	13 28	3 34	14 43	0 24	1 54	4 44	20 20	1 1	22 30	0 54	23 38	0 13	22 17
M26	1 14	4n12	1 58	13 39	3 38	14 26	0 20	1 58	4 41	20 19	1 1	22 30	0 54	23 38	0 13	22 17
T 27	1 38	11 9	3 10	13 47	3 40	14 8	0 15	2 2	4 38	20 19	1 2	22 30	0 54	23 38	0 13	22 17
W28	2 1	17 22	4 8	13 52	3 42	13 50	0 11	2 6	4 34	20 19	1 2	22 30	0 54	23 38	0 13	22 17
T 29	2 25	22 26	4 49	13 53	3 43	13 32	0 7	2 10	4 31	20 19	1 2	22 30	0 54	23 38	0 13	22 17
F 30	2s48	26n 4	5n11	13s51	3s42	13n13	0s 2	2s13	4s27	20n19	1s 2	22s31	0n53	23s38	0s13	22s17

Julian Day Number = 2447405.5, Delta T = 56.14 sec
 Ecliptic obliquity = 23°26'36, Nutation = 0°00'05
 Ayanamsha: Fagan/Bradley = 24°34'56, Lahiri = 23°41'55

SWISS EPHEMERIS for the year 1988

OCTOBER 1988

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	0 39 47	8♁ 1'49	17♁41	26°R48	25♁56	4°R24	6°R 4	26♁44	27♁19	7♁28	11♁10	13°R51	12♁40	15♁32	7♁ 1
S 2	0 43 43	9° 0'50	0♁44	26♁29	27° 4	4♁ 7	6♁ 2	26°47	27°21	7°28	11°12	13♁50	12°36	15°38	7° 2
M 3	0 47 40	9°59'53	13°22	26° 2	28°13	3°50	6° 1	26°50	27°22	7°29	11°14	13°D49	12°33	15°45	7° 3
T 4	0 51 36	10°58'58	25°42	25°28	29°22	3°33	5°59	26°53	27°23	7°29	11°16	13°50	12°30	15°52	7° 4
W 5	0 55 33	11°58'06	7♁46	24°46	0♁31	3°17	5°57	26°57	27°25	7°30	11°19	13°52	12°27	15°58	7° 5
T 6	0 59 29	12°57'16	19°40	23°56	1°40	3° 1	5°55	27° 0	27°26	7°30	11°21	13°53	12°24	16° 5	7° 6
F 7	1 3 26	13°56'28	1♁28	23° 0	2°50	2°45	5°52	27° 3	27°28	7°31	11°23	13°55	12°20	16°12	7° 7
S 8	1 7 22	14°55'42	13°14	21°58	3°59	2°30	5°50	27° 7	27°30	7°31	11°25	13°R56	12°17	16°18	7° 7
S 9	1 11 19	15°54'58	25° 2	20°51	5° 9	2°16	5°47	27°11	27°31	7°32	11°27	13°55	12°14	16°25	7° 8
M10	1 15 16	16°54'17	6♁55	19°41	6°19	2° 2	5°44	27°14	27°33	7°33	11°30	13°53	12°11	16°32	7° 9
T 11	1 19 12	17°53'38	18°54	18°29	7°29	1°49	5°41	27°18	27°35	7°33	11°32	13°49	12° 8	16°38	7° 9
W12	1 23 9	18°53'00	1♁ 2	17°18	8°39	1°36	5°37	27°22	27°37	7°34	11°34	13°43	12° 5	16°45	7° 9
T 13	1 27 5	19°52'25	13°20	16°10	9°49	1°24	5°34	27°26	27°38	7°35	11°36	13°37	12° 1	16°52	7°10
F 14	1 31 2	20°51'52	25°49	15° 5	11° 0	1°13	5°30	27°30	27°40	7°36	11°39	13°30	11°58	16°58	7°10
S 15	1 34 58	21°51'21	8♁30	14° 7	12°10	1° 2	5°26	27°34	27°42	7°36	11°41	13°24	11°55	17° 5	7°10
S 16	1 38 55	22°50'51	21°24	13°17	13°21	0°52	5°22	27°38	27°44	7°37	11°43	13°19	11°52	17°11	7°R10
M17	1 42 51	23°50'23	4♁33	12°37	14°32	0°43	5°18	27°43	27°46	7°38	11°46	13°15	11°49	17°18	7°10
T 18	1 46 48	24°49'57	17°58	12° 7	15°43	0°34	5°13	27°47	27°48	7°39	11°48	13°13	11°46	17°25	7°10
W19	1 50 45	25°49'33	1♁41	11°47	16°54	0°26	5° 9	27°51	27°50	7°40	11°50	13°D13	11°42	17°31	7°10
T 20	1 54 41	26°49'11	15°42	11°D39	18° 5	0°20	5° 4	27°56	27°53	7°41	11°53	13°14	11°39	17°38	7°10
F 21	1 58 38	27°48'50	0♁ 1	11°42	19°16	0°13	4°59	28° 1	27°55	7°42	11°55	13°16	11°36	17°45	7° 9
S 22	2 2 34	28°48'31	14°36	11°56	20°27	0° 8	4°54	28° 5	27°57	7°43	11°58	13°R16	11°33	17°51	7° 9
S 23	2 6 31	29°48'13	29°24	12°20	21°39	0° 3	4°48	28°10	27°59	7°44	12° 0	13°15	11°30	17°58	7° 8
M24	2 10 27	0♁47'57	14♁17	12°54	22°50	29♁59	4°43	28°15	28° 2	7°45	12° 2	13°12	11°26	18° 5	7° 8
T 25	2 14 24	1°47'44	29° 9	13°37	24° 2	29°57	4°37	28°20	28° 4	7°47	12° 5	13° 6	11°23	18°11	7° 7
W26	2 18 20	2°47'32	13♁52	14°28	25°14	29°55	4°31	28°24	28° 6	7°48	12° 7	12°59	11°20	18°18	7° 6
T 27	2 22 17	3°47'22	28°16	15°26	26°26	29°53	4°25	28°29	28° 9	7°49	12° 9	12°51	11°17	18°25	7° 5
F 28	2 26 14	4°47'14	12♁17	16°30	27°38	29°D53	4°19	28°34	28°11	7°50	12°12	12°42	11°14	18°31	7° 4
S 29	2 30 10	5°47'09	25°52	17°40	28°50	29°53	4°13	28°40	28°14	7°52	12°14	12°35	11°11	18°38	7° 3
S 30	2 34 7	6°47'06	9♁ 0	18°54	0♁ 2	29°54	4° 6	28°45	28°16	7°53	12°17	12°29	11° 7	18°45	7° 2
MB1	2 38 3	7♁47'05	21♁42	20♁13	1♁14	29♁56	4♁ 0	28♁50	28♁19	7♁54	12♁19	12♁26	11♁ 4	18♁51	7♁ 1

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
S 1	3s11	28n 5	5n14	13s46	3s41	12n54	0n 2	2s17	4s23	20n18	1s 2	22s31	0n53	23s38	0s13	22s17	0n57	0s24	15n31	6s21	6s49	5n28	17n 3	6s13
S 2	3 34	28 28	5 1	13 36	3 38	12 35	0 6	2 20	4 19	20 18	1 2	22 31	0 53	23 38	0 13	22 17	0 57	0 25	15 31	6 22	6 50	5 25	17 3	6 13
M 3	3 58	27 19	4 34	13 22	3 33	12 15	0 10	2 23	4 15	20 18	1 2	22 31	0 53	23 38	0 13	22 17	0 57	0 25	15 30	6 22	6 51	5 21	17 2	6 14
T 4	4 21	24 51	3 55	13 3	3 26	11 55	0 14	2 26	4 11	20 17	1 2	22 32	0 53	23 38	0 13	22 17	0 57	0 26	15 30	6 22	6 52	5 18	17 1	6 15
W 5	4 44	21 19	3 6	12 40	3 18	11 34	0 18	2 28	4 7	20 17	1 2	22 32	0 53	23 38	0 13	22 17	0 57	0 27	15 30	6 21	6 53	5 14	17 1	6 15
T 6	5 7	16 58	2 9	12 12	3 8	11 13	0 21	2 31	4 3	20 16	1 2	22 32	0 52	23 38	0 13	22 17	0 57	0 28	15 30	6 20	6 55	5 11	17 0	6 16
F 7	5 30	12 1	1 8	11 51	2 57	10 52	0 25	2 33	3 58	20 16	1 2	22 32	0 52	23 38	0 13	22 17	0 57	0 29	15 29	6 20	6 56	5 8	16 59	6 16
S 8	5 53	6 39	0 1	4 11	5 2	4 10	0 30	2 35	3 54	20 15	1 2	22 33	0 52	23 38	0 13	22 17	0 57	0 30	15 29	6 19	6 57	5 4	16 59	6 17
S 9	6 16	1 3	1s 1	10 25	2 27	10 8	0 32	2 36	3 49	20 15	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 31	15 29	6 20	6 58	5 1	16 58	6 18
M10	6 39	4s37	2 2	9 43	2 10	9 45	0 36	2 38	3 45	20 14	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 32	15 28	6 21	7 0	4 58	16 57	6 18
T 11	7 1	10 10	2 59	8 58	1 52	9 22	0 39	2 39	3 40	20 14	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 33	15 28	6 22	7 1	4 54	16 57	6 19
W12	7 24	15 25	3 49	8 13	1 32	8 59	0 43	2 40	3 36	20 13	1 3	22 33	0 52	23 38	0 13	22 17	0 56	0 34	15 28	6 24	7 2	4 51	16 56	6 19
T 13	7 46	20 6	4 28	7 28	1 12	8 36	0 46	2 40	3 31	20 12	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 34	15 28	6 27	7 3	4 47	16 56	6 20
F 14	8 9	24 0	4 56	6 44	0 51	8 12	0 49	2 41	3 26	20 12	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 35	15 28	6 29	7 4	4 44	16 55	6 21
S 15	8 31	26 49	5 9	6 3	0 31	7 48	0 53	2 40	3 22	20 11	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 36	15 27	6 32	7 6	4 41	16 54	6 21
S 16	8 53	28 16	5 7	5 25	0 11	7 24	0 56	2 40	3 17	20 10	1 3	22 34	0 51	23 38	0 13	22 17	0 56	0 37	15 27	6 34	7 7	4 37	16 54	6 22
M17	9 15	28 11	4 49	4 51	0n 9	7 0	0 59	2 40	3 12	20 9	1 3	22 35	0 51	23 38	0 13	22 17	0 56	0 38	15 27	6 35	7 8	4 34	16 53	6 22
T 18	9 37	26 27	4 15	4 23	0 27	6 35	1 2	2 39	3 8	20 8	1 3	22 35	0 51	23 38	0 13	22 17	0 56	0 39	15 27	6 36	7 9	4 30	16 53	6 23
W19	9 59	23 8	3 26	3 59	0 44	6 10	1 4	2 37	3 3	20 8	1 3	22 35	0 51	23 38	0 13	22 17	0 56	0 40	15 27	6 36	7 10	4 27	16 52	6 24
T 20	10 20	18 25	2 24	3 42	0 59	5 45	1 7	2 36	2 58	20 7	1 3	22 35	0 50	23 38	0 13	22 17	0 56	0 40	15 26	6 35	7 12	4 24	16 51	6 24
F 21	10 42	12 35	1 11	3 30	1 13	5 19	1 10	2 34	2 54	20 6	1 3	22 35	0 50	23 38	0 13	22 17	0 56	0 41	15 26	6 35	7 13	4 20	16 51	6 25
S 22	11 3	5 57	0n 7	3 25	1 25	4 54	1 12	2 32	2 49	20 5	1 3	22 36	0 50	23 38	0 13	22 17	0 56	0 42	15 26	6 35	7 14	4 17	16 50	6 25
S 23	11 24	1n 4	1 26	3 24	1 36	4 28	1 15	2 29	2 44	20 4	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 43	15 26	6 35	7 15	4 13	16 50	6 26
M24	11 45	8 5	2 39	3 29	1 45	4 2	1 17	2 27	2 40	20 3	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 44	15 26	6 36	7 16	4 10	16 49	6 26
T 25	12 6	14 38	3 42	3 39	1 52	3 35	1 20	2 24	2 35	20 2	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 45	15 26	6 38	7 18	4 7	16 49	6 27
W26	12 27	20 16	4 28	3 53	1 58	3 9	1 22	2 20	2 31	20 1	1 3	22 36	0 50	23 39	0 13	22 17	0 56	0 45	15 25	6 41	7 19	4 3	16 48	6 28
T 27	12 47	24 36	4 57	4 11	2 3	2 42	1 24	2 17	2 26	20 0	1 3	22 37	0 49	23 39	0 13	22 17	0 56	0 46	15 25	6 44	7 20	4 0	16 48	6 28
F 28	13 7	27 20	5 7	4 33	2 6	2 16	1 26	2 13	2 22	19 58	1 3	22 37	0 49	23 39	0 13	22 17	0 56	0 47	15 25	6 48	7 21	3 56	16 47	6 29
S 29	13 27	28 21	4 59	4 58	2 8	1 49	1 28	2 9	2 17	19 57	1 3</													

SWISS EPHEMERIS for the year 1988

NOVEMBER 1988

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	2 42 0	8♈47'06	4♌ 3	21♋35	2♊27	29♏58	3♍R53	28♌55	28♌22	7♄55	12♈22	12♈D24	11♏ 1	18♎58	7♍R 0
W 2	2 45 56	9♏47'09	16° 8	23° 0	3°39	0♈ 2	3♈46	29° 1	28°24	7°57	12°24	12♏24	10°58	19° 4	6♄59
T 3	2 49 53	10♏47'14	28° 1	24°28	4°52	0° 6	3°40	29° 6	28°27	7°58	12°26	12°25	10°55	19°11	6°57
F 4	2 53 49	11♏47'21	9♎49	25°58	6° 4	0°11	3°33	29°12	28°30	8° 0	12°29	12°R26	10°52	19°18	6°56
S 5	2 57 46	12♏47'30	21°35	27°29	7°17	0°16	3°25	29°17	28°32	8° 1	12°31	12°25	10°48	19°24	6°54
S 6	3 1 43	13♏47'42	3♎26	29° 2	8°30	0°23	3°18	29°23	28°35	8° 3	12°34	12°23	10°45	19°31	6°52
M 7	3 5 39	14♏47'55	15°25	0♈35	9°43	0°30	3°11	29°28	28°38	8° 4	12°36	12°18	10°42	19°38	6°51
T 8	3 9 36	15♏48'10	27°34	2°10	10°56	0°37	3° 3	29°34	28°41	8° 6	12°39	12°10	10°39	19°44	6°49
W 9	3 13 32	16♏48'27	9♈55	3°45	12° 9	0°46	2°56	29°40	28°44	8° 7	12°41	12° 0	10°36	19°51	6°47
T 10	3 17 29	17♏48'46	22°30	5°21	13°22	0°55	2°48	29°46	28°47	8° 9	12°43	11°48	10°32	19°58	6°45
F 11	3 21 25	18♏49'07	5♏19	6°57	14°35	1° 5	2°40	29°52	28°50	8°10	12°46	11°36	10°29	20° 4	6°43
S 12	3 25 22	19♏49'29	18°20	8°33	15°48	1°16	2°33	29°58	28°53	8°12	12°48	11°24	10°26	20°11	6°41
S 13	3 29 18	20♏49'53	1♄33	10°10	17° 2	1°27	2°25	0♄ 4	28°56	8°14	12°51	11°14	10°23	20°18	6°39
M14	3 33 15	21°50'18	14°57	11°46	18°15	1°39	2°17	0°10	28°59	8°15	12°53	11° 6	10°20	20°24	6°36
T 15	3 37 12	22°50'45	28°31	13°23	19°29	1°52	2° 9	0°16	29° 2	8°17	12°56	11° 1	10°17	20°31	6°34
W16	3 41 8	23°51'13	12♎15	14°59	20°42	2° 5	2° 1	0°22	29° 5	8°19	12°58	10°59	10°13	20°38	6°32
T 17	3 45 5	24°51'42	26°10	16°35	21°56	2°19	1°53	0°28	29° 8	8°21	13° 0	10°D59	10°10	20°44	6°29
F 18	3 49 1	25°52'13	10♏15	18°11	23° 9	2°33	1°45	0°34	29°11	8°22	13° 3	10°R59	10° 7	20°51	6°27
S 19	3 52 58	26°52'44	24°30	19°47	24°23	2°48	1°37	0°41	29°14	8°24	13° 5	10°58	10° 4	20°57	6°24
S 20	3 56 54	27°53'17	8♈53	21°23	25°37	3° 4	1°28	0°47	29°18	8°26	13° 7	10°56	10° 1	21° 4	6°21
M21	4 0 51	28°53'51	23°21	22°59	26°50	3°20	1°20	0°53	29°21	8°28	13°10	10°51	9°58	21°11	6°19
T 22	4 4 47	29°54'27	7♄49	24°35	28° 4	3°37	1°12	1° 0	29°24	8°30	13°12	10°42	9°54	21°17	6°16
W23	4 8 44	0♏55'04	22°11	26°10	29°18	3°54	1° 4	1° 6	29°27	8°32	13°15	10°32	9°51	21°24	6°13
T 24	4 12 41	1°55'42	6♈21	27°45	0♈32	4°12	0°56	1°13	29°31	8°34	13°17	10°19	9°48	21°31	6°10
F 25	4 16 37	2°56'22	20°13	29°20	1°46	4°30	0°48	1°19	29°34	8°35	13°19	10° 7	9°45	21°37	6° 7
S 26	4 20 34	3°57'03	3♄43	0♏55	3° 0	4°49	0°39	1°26	29°37	8°37	13°22	9°55	9°42	21°44	6° 4
S 27	4 24 30	4°57'45	16°50	2°30	4°14	5° 8	0°31	1°32	29°41	8°39	13°24	9°46	9°38	21°51	6° 1
M28	4 28 27	5°58'29	29°33	4° 4	5°28	5°28	0°23	1°39	29°44	8°41	13°26	9°39	9°35	21°57	5°58
T 29	4 32 23	6°59'15	11♈56	5°39	6°43	5°48	0°15	1°45	29°47	8°43	13°28	9°34	9°32	22° 4	5°55
W30	4 36 20	8♏ 0'02	24♌ 2	7♏13	7♈57	6♈ 8	0♈ 7	1♄52	29♏51	8♄45	13♈31	9♏33	9♏29	22♎11	5♄52

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄										
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	14s26	22n20	3n11	6s27	2n 8	0n28	1n34	1s55	2s 5	19n54	1s 3	22s38	0n49	23s39	0s13	22s17	0n56	0s50	15n25	6s54	7s26	3n43	16n45	6s31
W 2	14 45	18 10	2 16	7 0	2 6	0 0	1 35	1 50	2 0	19 52	1 3	22 38	0 49	23 39	0 13	22 17	0 56	0 51	15 25	6 54	7 27	3 39	16 44	6 32
T 3	15 4	13 22	1 17	7 34	2 3	0s27	1 37	1 44	1 56	19 51	1 3	22 38	0 49	23 39	0 13	22 17	0 56	0 51	15 25	6 54	7 29	3 36	16 44	6 32
F 4	15 22	8 7	0 14	8 10	2 0	0 54	1 38	1 39	1 52	19 50	1 3	22 38	0 48	23 39	0 13	22 17	0 55	0 52	15 25	6 54	7 30	3 32	16 44	6 33
S 5	15 41	2 35	0s49	8 46	1 57	1 22	1 40	1 33	1 48	19 49	1 3	22 38	0 48	23 39	0 13	22 17	0 55	0 53	15 25	6 54	7 31	3 29	16 43	6 33
S 6	15 59	3s 3	1 50	9 23	1 52	1 49	1 41	1 27	1 44	19 47	1 3	22 38	0 48	23 39	0 13	22 17	0 55	0 54	15 25	6 55	7 32	3 26	16 43	6 34
M 7	16 17	8 38	2 47	10 0	1 48	2 17	1 42	1 20	1 40	19 46	1 3	22 38	0 48	23 39	0 13	22 17	0 55	0 54	15 25	6 57	7 33	3 22	16 42	6 34
T 8	16 34	13 58	3 36	10 37	1 43	2 45	1 43	1 14	1 36	19 44	1 3	22 39	0 48	23 39	0 13	22 16	0 55	0 55	15 25	7 0	7 35	3 19	16 42	6 35
W 9	16 52	18 51	4 17	11 15	1 37	3 12	1 44	1 7	1 33	19 43	1 3	22 39	0 48	23 39	0 13	22 16	0 55	0 56	15 25	7 4	7 36	3 15	16 41	6 35
T 10	17 9	23 0	4 45	11 52	1 32	3 40	1 45	1 0	1 29	19 42	1 3	22 39	0 48	23 39	0 13	22 16	0 55	0 56	15 25	7 8	7 37	3 12	16 41	6 36
F 11	17 25	26 7	5 0	12 29	1 26	4 7	1 46	0 52	1 25	19 40	1 3	22 39	0 48	23 39	0 13	22 16	0 55	0 57	15 25	7 13	7 38	3 9	16 40	6 36
S 12	17 42	27 55	5 0	13 6	1 20	4 35	1 47	0 45	1 22	19 39	1 3	22 39	0 47	23 39	0 13	22 16	0 55	0 58	15 25	7 17	7 39	3 5	16 40	6 37
S 13	17 58	28 10	4 44	13 42	1 13	5 2	1 47	0 37	1 18	19 37	1 3	22 39	0 47	23 39	0 13	22 16	0 55	0 58	15 25	7 21	7 41	3 2	16 40	6 37
M14	18 14	26 46	4 12	14 18	1 7	5 30	1 48	0 29	1 15	19 36	1 3	22 39	0 47	23 39	0 13	22 16	0 55	0 59	15 25	7 24	7 42	2 58	16 39	6 38
T 15	18 29	23 48	3 25	14 54	1 0	5 57	1 48	0 21	1 11	19 34	1 3	22 39	0 47	23 39	0 13	22 16	0 55	1 0	15 25	7 26	7 43	2 55	16 39	6 38
W16	18 44	19 28	2 26	15 29	0 54	6 24	1 49	0 13	1 8	19 33	1 3	22 40	0 47	23 39	0 13	22 16	0 55	1 0	15 25	7 27	7 44	2 52	16 38	6 39
T 17	18 59	14 1	1 18	16 3	0 47	6 51	1 49	0 4	1 4	19 31	1 2	22 40	0 47	23 39	0 13	22 16	0 55	1 1	15 25	7 27	7 45	2 48	16 38	6 39
F 18	19 14	7 47	0 4	16 36	0 40	7 18	1 49	0n 5	1 1	19 30	1 2	22 40	0 47	23 39	0 13	22 16	0 55	1 2	15 25	7 27	7 47	2 45	16 38	6 40
S 19	19 28	1 6	1n11	17 9	0 33	7 45	1 49	0 14	0 58	19 28	1 2	22 40	0 47	23 39	0 13	22 16	0 55	1 2	15 25	7 27	7 48	2 41	16 37	6 40
S 20	19 42	5n42	2 22	17 41	0 26	8 12	1 50	0 23	0 55	19 27	1 2	22 40	0 47	23 39	0 13	22 16	0 55	1 3	15 25	7 28	7 49	2 38	16 37	6 41
M21	19 55	12 14	3 24	18 12	0 20	8 39	1 49	0 32	0 52	19 25	1 2	22 40	0 46	23 39	0 13	22 16	0 55	1 3	15 25	7 30	7 50	2 34	16 37	6 41
T 22	20 8	18 6	4 13	18 43	0 13	9 5	1 49	0 41	0 49	19 24	1 2	22 40	0 46	23 39	0 13	22 15	0 55	1 4	15 25	7 33	7 51	2 31	16 36	6 42
W23	20 21	22 55	4 45	19 12	0 6	9 32	1 49	0 51	0 46	19 22	1 2	22 40	0 46	23 39	0 13	22 15	0 55	1 4	15 25	7 37	7 53	2 28	16 36	6 42
T 24	20 33	26 17	5 0	19 41	0s 1	9 58	1 49	1 1	0 43	19 20	1 2	22 40	0 46	23 39	0 13	22 15	0 55	1 5	15 26	7 42	7 54	2 24	16 36	6 42
F 25	20 45	28 0	4 56	20 8	0 8	10 24	1 48	1 10	0 40	19 19	1 2	22 40	0 46	23 39	0 13	22 15	0 55	1 5	15 26	7 47	7 55	2 21	16 36	6 43
S 26	20 57	27 59	4 35	20 35	0 14	10 49	1 48	1 20	0 37	19 17	1 1	22 40	0 46	23 39	0 13	22 15	0 55	1 6	15 26	7 51	7 56	2 17	16 35	6 43
S 27	21 8	26 22	4 1	21 0	0 21	11 15	1 48	1 31	0 35	19 16	1 1	22 40	0 46	23 39	0 13	22 15	0 55	1 6	15 26	7 55	7 57	2 14	16 35	6 44
M28	21 18	23 25	3 15	21 25	0 28	11 40	1 47	1 41	0 32	19 14	1 1	22 40	0 46	23 39	0 13	22 15	0 55	1 7	15 26	7 57	7 59	2 11	16 35	6 44
T 29	21 29	19 28	2 21	21 49	0 34	12 5	1 46	1 51	0 29	19 13	1 1	22 40	0 46	23 39	0 13	22 15	0 55	1 7	15 26	7 59	8 0	2 7	16 35	6 44
W30	21s39	14n47	1n21	22s11	0s40	12s30	1n45	2n 2	0s27															

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DECEMBER 1988

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	4 40 16	9° 05'	5° 56'	8° 48'	9° 11'	6° 30'	29° 59'	1° 59'	29° 54'	8° 47'	13° 33'	9° 32'	9° 26'	22° 17'	5° 48'								
F 2	4 44 13	10° 14'	17° 45'	10° 22'	10° 25'	6° 51'	29° 51'	2° 06'	29° 58'	8° 49'	13° 35'	9° 32'	9° 23'	22° 24'	5° 45'								
S 3	4 48 10	11° 23'	29° 32'	11° 56'	11° 40'	7° 13'	29° 43'	2° 12'	0° 1'	8° 51'	13° 37'	9° 31'	9° 19'	22° 31'	5° 42'								
S 4	4 52 6	12° 3'24"	11° 25'	13° 30'	12° 54'	7° 35'	29° 35'	2° 19'	0° 5'	8° 53'	13° 40'	9° 28'	9° 16'	22° 37'	5° 38'								
M 5	4 56 3	13° 4'18"	23° 28'	15° 5'	14° 9'	7° 58'	29° 28'	2° 26'	0° 8'	8° 56'	13° 42'	9° 23'	9° 13'	22° 44'	5° 35'								
T 6	4 59 59	14° 5'13"	5° 11'44"	16° 39'	15° 23'	8° 21'	29° 20'	2° 33'	0° 12'	8° 58'	13° 44'	9° 15'	9° 10'	22° 50'	5° 31'								
W 7	5 3 56	15° 6'10"	18° 17'	18° 13'	16° 38'	8° 45'	29° 12'	2° 40'	0° 15'	9° 0'	13° 46'	9° 4'	9° 7'	22° 57'	5° 28'								
T 8	5 7 52	16° 7'07"	1° 17'7"	19° 47'	17° 52'	9° 8'	29° 5'	2° 46'	0° 19'	9° 2'	13° 48'	8° 51'	9° 4'	23° 4'	5° 24'								
F 9	5 11 49	17° 8'06"	14° 16'	21° 21'	19° 7'	9° 33'	28° 57'	2° 53'	0° 22'	9° 4'	13° 50'	8° 38'	9° 0'	23° 10'	5° 21'								
S 10	5 15 45	18° 9'06"	27° 41'	22° 56'	20° 21'	9° 57'	28° 50'	3° 0'	0° 26'	9° 6'	13° 53'	8° 24'	8° 57'	23° 17'	5° 17'								
S 11	5 19 42	19° 10'06"	11° 19'	24° 30'	21° 36'	10° 22'	28° 43'	3° 7'	0° 29'	9° 8'	13° 55'	8° 13'	8° 54'	23° 24'	5° 13'								
M 12	5 23 39	20° 11'07"	25° 7'	26° 4'	22° 51'	10° 48'	28° 36'	3° 14'	0° 33'	9° 10'	13° 57'	8° 4'	8° 51'	23° 30'	5° 9'								
T 13	5 27 35	21° 12'09"	9° 33'	27° 39'	24° 5'	11° 13'	28° 29'	3° 21'	0° 37'	9° 13'	13° 59'	7° 59'	8° 48'	23° 37'	5° 6'								
W 14	5 31 32	22° 13'12"	23° 3'	29° 13'	25° 20'	11° 39'	28° 22'	3° 28'	0° 40'	9° 15'	14° 1'	7° 56'	8° 44'	23° 44'	5° 2'								
T 15	5 35 28	23° 14'14"	7° 6'	0° 34'48"	26° 35'	12° 5'	28° 15'	3° 35'	0° 44'	9° 17'	14° 3'	7° 55'	8° 41'	23° 50'	4° 58'								
F 16	5 39 25	24° 15'18"	21° 10'	2° 22'	27° 49'	12° 32'	28° 8'	3° 42'	0° 47'	9° 19'	14° 5'	7° 55'	8° 38'	23° 57'	4° 54'								
S 17	5 43 21	25° 16'21"	5° 15'	3° 57'	29° 4'	12° 59'	28° 2'	3° 49'	0° 51'	9° 21'	14° 7'	7° 55'	8° 35'	24° 4'	4° 50'								
S 18	5 47 18	26° 17'25"	19° 20'	5° 32'	0° 19'	13° 26'	27° 56'	3° 56'	0° 55'	9° 24'	14° 9'	7° 53'	8° 32'	24° 10'	4° 47'								
M 19	5 51 14	27° 18'29"	3° 8'24"	7° 7'	1° 34'	13° 54'	27° 49'	4° 3'	0° 58'	9° 26'	14° 11'	7° 48'	8° 29'	24° 17'	4° 43'								
T 20	5 55 11	28° 19'33"	17° 25'	8° 42'	2° 49'	14° 21'	27° 43'	4° 10'	1° 2'	9° 28'	14° 13'	7° 41'	8° 25'	24° 24'	4° 39'								
W 21	5 59 8	29° 20'38"	1° 11'19"	10° 16'	4° 3'	14° 49'	27° 37'	4° 18'	1° 5'	9° 30'	14° 14'	7° 31'	8° 22'	24° 30'	4° 35'								
T 22	6 3 4	0° 31'44"	15° 3'	11° 51'	5° 18'	15° 17'	27° 32'	4° 25'	1° 9'	9° 33'	14° 16'	7° 20'	8° 19'	24° 37'	4° 31'								
F 23	6 7 1	1° 22'49"	28° 34'	13° 26'	6° 33'	15° 46'	27° 26'	4° 32'	1° 13'	9° 35'	14° 18'	7° 8'	8° 16'	24° 44'	4° 27'								
S 24	6 10 57	2° 23'55"	11° 24'48"	15° 1'	7° 48'	16° 15'	27° 21'	4° 39'	1° 16'	9° 37'	14° 20'	6° 57'	8° 13'	24° 50'	4° 23'								
S 25	6 14 54	3° 25'02"	24° 44'	16° 35'	9° 3'	16° 44'	27° 15'	4° 46'	1° 20'	9° 39'	14° 22'	6° 48'	8° 10'	24° 57'	4° 19'								
M 26	6 18 50	4° 26'09"	7° 24'21"	18° 9'	10° 18'	17° 13'	27° 10'	4° 53'	1° 24'	9° 42'	14° 23'	6° 41'	8° 6'	25° 4'	4° 15'								
T 27	6 22 47	5° 27'16"	19° 41'	19° 43'	11° 33'	17° 42'	27° 5'	5° 0'	1° 27'	9° 44'	14° 25'	6° 37'	8° 3'	25° 10'	4° 11'								
W 28	6 26 44	6° 28'24"	1° 11'46"	21° 16'	12° 48'	18° 12'	27° 1'	5° 7'	1° 31'	9° 46'	14° 27'	6° 35'	8° 0'	25° 17'	4° 7'								
T 29	6 30 40	7° 29'32"	13° 41'	22° 49'	14° 3'	18° 42'	26° 56'	5° 14'	1° 34'	9° 48'	14° 29'	6° 36'	7° 57'	25° 23'	4° 3'								
F 30	6 34 37	8° 30'40"	25° 30'	24° 21'	15° 18'	19° 12'	26° 52'	5° 21'	1° 38'	9° 51'	14° 30'	6° 36'	7° 54'	25° 30'	3° 59'								
S 31	6 38 33	9° 31'49"	7° 18'	25° 52'	16° 33'	19° 42'	26° 48'	5° 29'	1° 42'	9° 53'	14° 32'	6° 37'	7° 50'	25° 37'	3° 56'								

Day	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓		
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	decl	decl	decl	lat		
T 1	21s48	9n38	0n19	22s32	0s47	12s54	1n45	2n12	0s24	19n10	1s 1	22s40	0n45	23s39	0s13	22s15	0n55	1s 8	15n27	8s 0	8s 2	2n 0	16n34	6s45
F 2	21 57	4 11	0s43	22 53	0 53	13 18	1 44	2 23	0 22	19 8	1 1	22 40	0 45	23 40	0 13	22 14	0 55	1 9	15 27	8 0	8 3	1 57	16 34	6 46
S 3	22 6	1s24	1 44	23 12	0 59	13 42	1 43	2 34	0 19	19 7	1 0	22 40	0 45	23 40	0 13	22 14	0 55	1 9	15 27	8 0	8 5	1 54	16 34	6 46
S 4	22 14	6 58	2 40	23 29	1 4 14	6 1 42	2 45	0 17	19 5	1 0	22 40	0 45	23 40	0 13	22 14	0 55	1 10	15 27	8 1	8 6	1 50	16 33	6 46	
M 5	22 22	12 22	3 30	23 46	1 10	14 29	1 41	2 56	0 15	19 4	1 0	22 40	0 45	23 40	0 13	22 14	0 55	1 10	15 27	8 3	8 7	1 47	16 33	6 47
T 6	22 30	17 23	4 11	24 2	1 16	14 52	1 39	3 7	0 12	19 2	1 0	22 40	0 45	23 40	0 13	22 14	0 55	1 10	15 28	8 6	8 8	1 43	16 33	6 47
W 7	22 37	21 46	4 41	24 16	1 21	15 14	1 38	3 19	0 10	19 1	1 0	22 40	0 45	23 40	0 13	22 14	0 55	1 11	15 28	8 10	8 9	1 40	16 33	6 47
T 8	22 43	25 14	4 58	24 29	1 26	15 37	1 37	3 30	0 8	18 59	0 59	22 40	0 45	23 40	0 13	22 14	0 55	1 11	15 28	8 15	8 10	1 36	16 33	6 47
F 9	22 49	27 28	4 59	24 41	1 31	15 58	1 35	3 42	0 6	18 58	0 59	22 40	0 45	23 40	0 13	22 14	0 55	1 12	15 28	8 20	8 12	1 33	16 33	6 48
S 10	22 55	28 9	4 44	24 51	1 36	16 20	1 34	3 53	0 4	18 56	0 59	22 40	0 45	23 40	0 13	22 13	0 54	1 12	15 29	8 25	8 13	1 30	16 33	6 48
S 11	23 0 27	9 4	12 25	0 1	10 16	14 1	1 32	4 5	0 2	18 55	0 59	22 40	0 45	23 39	0 13	22 13	0 54	1 12	15 29	8 29	8 14	1 26	16 32	6 48
M 12	23 5 24	29 3	3 26	25 8	1 45	17 1	1 31	4 17	0n 0	18 54	0 59	22 40	0 44	23 39	0 13	22 13	0 54	1 13	15 29	8 33	8 15	1 23	16 32	6 49
T 13	23 9 20	21 2	2 26	25 14	1 49	17 21	1 29	4 28	0 2	18 52	0 58	22 40	0 44	23 39	0 13	22 13	0 54	1 13	15 29	8 35	8 16	1 19	16 32	6 49
W 14	23 13 15	4 1	1 18	25 19	1 52	17 41	1 28	4 40	0 4	18 51	0 58	22 40	0 44	23 39	0 13	22 13	0 54	1 13	15 30	8 36	8 18	1 16	16 32	6 49
T 15	23 16 8	5 8	0 4	25 22	1 56	18 0	1 26	4 52	0 6	18 50	0 58	22 39	0 44	23 39	0 13	22 13	0 54	1 13	15 30	8 36	8 19	1 13	16 32	6 49
F 16	23 19 2	2 26	1n10	25 24	1 59	18 19	1 24	5 4	0 8	18 49	0 58	22 39	0 44	23 39	0 13	22 13	0 54	1 14	15 30	8 36	8 20	1 9	16 32	6 49
S 17	23 22 4n13	2 20	25 25	2 2	18 37	1 22	5 17	0 10	18 47	0 58	22 39	0 44	23 39	0 13	22 13	0 54	1 14	15 30	8 36	8 21	1 6	16 32	6 50	
S 18	23 23 10	40 3	21 25	24 2 5	18 55	1 20	5 29	0 11	18 46	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 14	15 31	8 37	8 22	1 2	16 32	6 50	
M 19	23 25 16	34 4	10 25	22 2 7	19 12	1 18	5 41	0 13	18 45	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 14	15 31	8 39	8 24	0 59	16 32	6 50	
T 20	23 26 21	34 4	4 44	25 18	2 9	19 29	1 16	5 53	0 15	18 44	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 15	15 31	8 41	8 25	0 55	16 32	6 50
W 21	23 26 25	20 5	1 25	13	2 10	19 45	1 14	6 6	0 17	18 43	0 57	22 39	0 44	23 39	0 13	22 12	0 54	1 15	15 32	8 45	8 26	0 52	16 32	6 50
T 22	23 27 27	34 5	0 25	6 2	11 20	0 1 12	6 18	0 18	18 42	0 56	22 38	0 44	23 39	0 13	22 12	0 54	1 15	15 32	8 49	8 27	0 49	16 32	6 50	
F 23	23 26 28	8 4	4 42	24 57	2 12	20 15	1 10	6 31	0 20	18 41	0 56	22 38	0 44	23 39	0 13	22 12	0 54	1 15	15 32	8 54	8 28	0 45	16 32	6 50
S 24	23 25 27	3 4	9 24	47 2	12 20	30 1 8	6 43	0 21	18 40	0 56	22 38	0 44	23 39	0 13	22 12	0 54	1 15	15 33	8 58	8 30	0 42	16 32	6 51	
S 25	23 24 24	31 3	24 24	36 2	12 20	44 1 6	6 56	0 23	18 39	0 56	22 38	0 44	23 39	0 13	22 11	0 54	1 16	15 33	9 1	8 31	0 38	16 32	6 51	
M 26	23 22 20	51 2	30 24	23 2 11	20 57	1 3 7	7 8	0 24	18 38	0 56	22 38	0 43	23 39	0 13	22 11	0 54	1 16	15 33	9 4	8 32	0 35	16 32	6 51	
T 27	23 20 16	20 1	29 24	8 2	10 21	10 1 1	7 21	0 26	18 37	0 55	22 38	0 43	23 39	0 13										