

SWISS EPHEMERIS for the year 1997

JANUARY 1997

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	6 42 44	10°36'27	28°44'	13°R 6	18°27	29°14	25°10	1°20	3°16	26°50	4°23	2°D26	3°3	21°26	0°13
T 2	6 46 41	11°37'37	10°49'	11°346	19°42	29°34	25°24	1°23	3°19	26°52	4°25	2°R26	3° 0	21°32	0°18
F 3	6 50 37	12°38'47	23° 9	10°24	20°57	29°53	25°38	1°26	3°23	26°54	4°27	2°D26	2°57	21°39	0°22
S 4	6 54 34	13°39'57	5°11	9° 5	22°12	0°13	25°52	1°30	3°26	26°56	4°29	2°24	2°54	21°46	0°27
S 5	6 58 30	14°41'07	19° 0	7°50	23°27	0°31	26° 6	1°33	3°30	26°59	4°31	2°20	2°51	21°52	0°32
M 6	7 2 27	15°42'18	2°37	6°41	24°42	0°49	26°20	1°36	3°33	27° 1	4°33	2°13	2°47	21°59	0°36
T 7	7 6 24	16°43'28	16°44	5°41	25°57	1° 7	26°34	1°40	3°36	27° 3	4°35	2° 4	2°44	22° 6	0°41
W 8	7 10 20	17°44'39	1°37	4°49	27°12	1°25	26°48	1°44	3°40	27° 5	4°37	1°53	2°41	22°12	0°45
T 9	7 14 17	18°45'50	16°11	4° 7	28°28	1°41	27° 2	1°47	3°43	27° 8	4°39	1°41	2°38	22°19	0°49
F 10	7 18 13	19°47'00	1°16	3°35	29°43	1°58	27°16	1°51	3°47	27°10	4°40	1°30	2°35	22°26	0°53
S 11	7 22 10	20°48'11	16°22	3°14	0°58	2°14	27°30	1°55	3°50	27°12	4°42	1°22	2°32	22°32	0°57
S 12	7 26 6	21°49'20	1°20	3° 1	2°13	2°29	27°44	1°59	3°54	27°14	4°44	1°16	2°28	22°39	1° 1
M13	7 30 3	22°50'29	16° 2	2°D58	3°28	2°45	27°58	2° 3	3°57	27°17	4°46	1°13	2°25	22°46	1° 5
T 14	7 33 59	23°51'37	0°23	3° 4	4°43	2°59	28°12	2° 7	4° 0	27°19	4°48	1°D12	2°22	22°52	1° 8
W15	7 37 56	24°52'45	14°21	3°17	5°58	3°13	28°26	2°11	4° 4	27°21	4°49	1°12	2°19	22°59	1°12
T 16	7 41 53	25°53'52	27°57	3°37	7°14	3°27	28°40	2°16	4° 7	27°23	4°51	1°R12	2°16	23° 6	1°15
F 17	7 45 49	26°54'58	11°13	4° 4	8°29	3°40	28°55	2°20	4°11	27°26	4°53	1°11	2°13	23°12	1°19
S 18	7 49 46	27°56'04	24°12	4°37	9°44	3°52	29° 9	2°25	4°14	27°28	4°54	1° 8	2° 9	23°19	1°22
S 19	7 53 42	28°57'08	6°11	5°16	10°59	4° 4	29°23	2°29	4°18	27°30	4°56	1° 2	2° 6	23°26	1°25
M20	7 57 39	29°58'12	19°27	5°59	12°14	4°16	29°37	2°34	4°21	27°33	4°57	0°54	2° 3	23°32	1°28
T 21	8 1 35	0°59'15	1°48	6°46	13°29	4°27	29°51	2°39	4°25	27°35	4°59	0°43	2° 0	23°39	1°31
W22	8 5 32	2° 0'17	14° 0	7°38	14°44	4°37	0°5	2°44	4°29	27°37	5° 1	0°32	1°57	23°46	1°34
T 23	8 9 28	3° 1'18	26° 5	8°33	15°59	4°47	0°19	2°48	4°32	27°39	5° 2	0°20	1°53	23°52	1°36
F 24	8 13 25	4° 2'19	8°13	9°32	17°15	4°56	0°33	2°53	4°36	27°42	5° 3	0° 9	1°50	23°59	1°39
S 25	8 17 22	5° 3'19	19°56	10°33	18°30	5° 4	0°48	2°59	4°39	27°44	5° 5	0° 0	1°47	24° 6	1°41
S 26	8 21 18	6° 4'18	1°45	11°37	19°45	5°12	1° 2	3° 4	4°43	27°46	5° 6	29°54	1°44	24°12	1°44
M27	8 25 15	7° 5'16	13°33	12°44	21° 0	5°19	1°16	3° 9	4°46	27°48	5° 8	29°50	1°41	24°19	1°46
T 28	8 29 11	8° 6'13	25°22	13°52	22°15	5°26	1°30	3°14	4°50	27°51	5° 9	29°D48	1°38	24°26	1°48
W29	8 33 8	9° 7'10	7°17	15° 3	23°30	5°32	1°44	3°20	4°53	27°53	5°10	29°48	1°34	24°33	1°50
T 30	8 37 4	10° 8'06	19°21	16°15	24°45	5°37	1°58	3°25	4°57	27°55	5°12	29°49	1°31	24°39	1°52
F 31	8 41 1	11° 9'02	1°40	17°30	26° 1	5°42	2°12	3°30	5° 0	27°57	5°13	29°51	1°28	24°46	1°53

Delta T = 62.30 sec.

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	8 44 57	12° 9'56	14°17	18°46	27°16	5°46	2°26	3°36	5° 4	28° 0	5°14	29°R51	1°25	24°53	1°55
S 2	8 48 54	13°10'50	27°19	20° 3	28°31	5°49	2°40	3°42	5° 7	28° 2	5°15	29°50	1°22	24°59	1°57
M 3	8 52 51	14°11'44	10°48	21°22	29°46	5°52	2°54	3°47	5°11	28° 4	5°17	29°47	1°19	25° 6	1°58
T 4	8 56 47	15°12'36	24°47	22°42	1° 1	5°54	3° 8	3°53	5°14	28° 6	5°18	29°42	1°15	25°13	1°59
W 5	9 0 44	16°13'27	9°15	24° 3	2°16	5°55	3°22	3°59	5°18	28° 9	5°19	29°36	1°12	25°19	2° 0
T 6	9 4 40	17°14'18	24° 7	25°25	3°31	5°R55	3°36	4° 5	5°21	28°11	5°20	29°29	1° 9	25°26	2° 1
F 7	9 8 37	18°15'07	9°17	26°49	4°47	5°55	3°50	4°11	5°25	28°13	5°21	29°22	1° 6	25°33	2° 2
S 8	9 12 33	19°15'56	24°33	28°13	6° 2	5°54	4° 4	4°17	5°28	28°15	5°22	29°17	1° 3	25°39	2° 3
S 9	9 16 30	20°16'42	9°47	29°39	7°17	5°52	4°18	4°23	5°31	28°17	5°23	29°14	0°59	25°46	2° 4
M10	9 20 26	21°17'28	24°46	1° 5	8°32	5°49	4°32	4°29	5°35	28°19	5°24	29°D12	0°56	25°53	2° 4
T 11	9 24 23	22°18'12	9°26	2°33	9°47	5°46	4°45	4°35	5°38	28°21	5°25	29°13	0°53	25°59	2° 5
W12	9 28 20	23°18'54	23°40	4° 1	11° 2	5°42	4°59	4°41	5°42	28°24	5°26	29°14	0°50	26° 6	2° 5
T 13	9 32 16	24°19'35	7°27	5°31	12°17	5°37	5°13	4°48	5°45	28°26	5°26	29°15	0°47	26°13	2° 5
F 14	9 36 13	25°20'14	20°49	7° 1	13°32	5°31	5°27	4°54	5°49	28°28	5°27	29°R16	0°44	26°19	2°R 5
S 15	9 40 9	26°20'51	3°11	8°33	14°47	5°25	5°41	5° 0	5°52	28°30	5°28	29°16	0°40	26°26	2° 5
S 16	9 44 6	27°21'26	16°28	10° 5	16° 2	5°17	5°54	5° 7	5°55	28°32	5°29	29°14	0°37	26°33	2° 5
M17	9 48 2	28°22'00	28°52	11°38	17°17	5° 9	6° 8	5°13	5°59	28°34	5°29	29°11	0°34	26°39	2° 5
T 18	9 51 59	29°22'32	11°4	13°12	18°33	5° 0	6°21	5°20	6° 2	28°36	5°30	29° 7	0°31	26°46	2° 4
W19	9 55 55	0°23'03	23° 6	14°47	19°48	4°51	6°35	5°26	6° 5	28°38	5°31	29° 2	0°28	26°53	2° 4
T 20	9 59 52	1°23'31	5°1	16°22	21° 3	4°40	6°49	5°33	6° 8	28°40	5°31	28°57	0°24	26°59	2° 3
F 21	10 3 49	2°23'58	16°53	17°59	22°18	4°29	7° 2	5°40	6°12	28°42	5°32	28°52	0°21	27° 6	2° 3
S 22	10 7 45	3°24'23	28°42	19°37	23°33	4°17	7°15	5°47	6°15	28°44	5°32	28°48	0°18	27°13	2° 2
S 23	10 11 42	4°24'47	10°31	21°15	24°48	4° 4	7°29	5°53	6°18	28°46	5°33	28°45	0°15	27°19	2° 1
M24	10 15 38	5°25'08	22°22	22°55	26° 3	3°51	7°42	6° 0	6°21	28°48	5°33	28°44	0°12	27°26	2° 0
T 25	10 19 35	6°25'29	4°17	24°36	27°18	3°37	7°55	6° 7	6°24	28°50	5°34	28°D44	0° 9	27°33	1°58
W26	10 23 31	7°25'47	16°19	26°17	28°33	3°22	8° 9	6°14	6°28	28°52	5°34	28°45	0° 5	27°39	1°57
T 27	10 27 28	8°26'04	28°30	28° 0	29°47	3° 6	8°22	6°21	6°31	28°53	5°35	28°47	0° 2	27°46	1°56
F 28	10 31 24	9°26'20	10°53	29°43	1° 2	2°50	8°35	6°28	6°34	28°55	5°35	28°48	29°59	27°53	1°54

Delta T = 62.36 sec.

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SWISS EPHEMERIS for the year 1997

MARCH 1997

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	10 35 21	10 ^h 26'34"	23 ^m 33"	1 ^h 28'	2 ^h 17'	2 ^h R33	8 ^h 48'	6 ^h 35'	6 ^h 37'	28 ^h 57'	5 ^h 35'	28 ^h 49'	29 ^h 56'	27 ^h 59'	1 ^h R53
S 2	10 39 18	11 ^h 26'47"	6 ^m 32"	3 ^h 13'	3 ^h 32'	2 ^h 16'	9 ^h 1'	6 ^h 42'	6 ^h 40'	28 ^h 59'	5 ^h 35'	28 ^h R50	29 ^h 53'	28 ^h 6'	1 ^h M51
M 3	10 43 14	12 ^h 26'58"	19 ^m 54"	5 ^h 0'	4 ^h 47'	1 ^h 57'	9 ^h 14'	6 ^h 49'	6 ^h 43'	29 ^h 1'	5 ^h 36'	28 ^h 50'	29 ^h 50'	28 ^h 13'	1 ^h 49'
T 4	10 47 11	13 ^h 27'08"	3 ^m 42"	6 ^h 48'	6 ^h 2'	1 ^h 38'	9 ^h 27'	6 ^h 56'	6 ^h 46'	29 ^h 3'	5 ^h 36'	28 ^h 49'	29 ^h 46'	28 ^h 19'	1 ^h 47'
W 5	10 51 7	14 ^h 27'16"	17 ^m 55"	8 ^h 36'	7 ^h 17'	1 ^h 19'	9 ^h 40'	7 ^h 3'	6 ^h 49'	29 ^h 4'	5 ^h 36'	28 ^h 48'	29 ^h 43'	28 ^h 26'	1 ^h 45'
T 6	10 55 4	15 ^h 27'22"	2 ^m 31"	10 ^h 26'	8 ^h 32'	0 ^h 59'	9 ^h 53'	7 ^h 10'	6 ^h 52'	29 ^h 6'	5 ^h 36'	28 ^h 46'	29 ^h 40'	28 ^h 33'	1 ^h 43'
F 7	10 59 0	16 ^h 27'27"	17 ^m 26"	12 ^h 17'	9 ^h 47'	0 ^h 39'	10 ^h 6'	7 ^h 17'	6 ^h 55'	29 ^h 8'	5 ^h 36'	28 ^h 45'	29 ^h 37'	28 ^h 39'	1 ^h 41'
S 8	11 2 57	17 ^h 27'31"	2 ^h 34'	14 ^h 9'	11 ^h 2'	0 ^h 18'	10 ^h 18'	7 ^h 25'	6 ^h 58'	29 ^h 9'	5 ^h 36'	28 ^h 43'	29 ^h 34'	28 ^h 46'	1 ^h 38'
S 9	11 6 53	18 ^h 27'32"	17 ^m 44'	16 ^h 2'	12 ^h 17'	29 ^h 56'	10 ^h 31'	7 ^h 32'	7 ^h 1'	29 ^h 11'	5 ^h R36	28 ^h 43'	29 ^h 30'	28 ^h 53'	1 ^h 36'
M10	11 10 50	19 ^h 27'31"	2 ^h 47'	17 ^h 56'	13 ^h 31'	29 ^h 34'	10 ^h 44'	7 ^h 39'	7 ^h 3'	29 ^h 13'	5 ^h 36'	28 ^h D42	29 ^h 27'	28 ^h 59'	1 ^h 33'
T11	11 14 46	20 ^h 27'29"	17 ^m 35'	19 ^h 51'	14 ^h 46'	29 ^h 12'	10 ^h 56'	7 ^h 46'	7 ^h 6'	29 ^h 14'	5 ^h 36'	28 ^h 43'	29 ^h 24'	29 ^h 6'	1 ^h 31'
W12	11 18 43	21 ^h 27'24"	2 ^h 0'	21 ^h 47'	16 ^h 1'	28 ^h 50'	11 ^h 9'	7 ^h 54'	7 ^h 9'	29 ^h 16'	5 ^h 36'	28 ^h 43'	29 ^h 21'	29 ^h 13'	1 ^h 28'
T13	11 22 40	22 ^h 27'17"	16 ^m 0'	23 ^h 44'	17 ^h 16'	28 ^h 27'	11 ^h 21'	8 ^h 1'	7 ^h 12'	29 ^h 17'	5 ^h 36'	28 ^h 44'	29 ^h 18'	29 ^h 19'	1 ^h 25'
F14	11 26 36	23 ^h 27'08"	29 ^m 33'	25 ^h 42'	18 ^h 31'	28 ^h 4'	11 ^h 33'	8 ^h 8'	7 ^h 14'	29 ^h 19'	5 ^h 36'	28 ^h 45'	29 ^h 15'	29 ^h 26'	1 ^h 22'
S15	11 30 33	24 ^h 26'57"	12 ^m 40'	27 ^h 40'	19 ^h 45'	27 ^h 41'	11 ^h 45'	8 ^h 16'	7 ^h 17'	29 ^h 20'	5 ^h 35'	28 ^h 45'	29 ^h 11'	29 ^h 33'	1 ^h 19'
S16	11 34 29	25 ^h 26'44"	25 ^m 24'	29 ^h 39'	21 ^h 0'	27 ^h 17'	11 ^h 58'	8 ^h 23'	7 ^h 20'	29 ^h 22'	5 ^h 35'	28 ^h R45	29 ^h 8'	29 ^h 39'	1 ^h 16'
M17	11 38 26	26 ^h 26'28"	7 ^m 48'	1 ^h 38'	22 ^h 15'	26 ^h 54'	12 ^h 10'	8 ^h 31'	7 ^h 22'	29 ^h 23'	5 ^h 35'	28 ^h 45'	29 ^h 5'	29 ^h 46'	1 ^h 13'
T18	11 42 22	27 ^h 26'10"	19 ^m 57'	3 ^h 38'	23 ^h 30'	26 ^h 30'	12 ^h 22'	8 ^h 38'	7 ^h 25'	29 ^h 25'	5 ^h 35'	28 ^h 45'	29 ^h 2'	29 ^h 53'	1 ^h 9'
W19	11 46 19	28 ^h 25'50"	1 ^m 55'	5 ^h 38'	24 ^h 44'	26 ^h 7'	12 ^h 34'	8 ^h 45'	7 ^h 27'	29 ^h 26'	5 ^h 34'	28 ^h D45	28 ^h 59'	29 ^h 59'	1 ^h 6'
T20	11 50 15	29 ^h 25'27"	13 ^m 46'	7 ^h 37'	25 ^h 59'	25 ^h 43'	12 ^h 45'	8 ^h 53'	7 ^h 30'	29 ^h 28'	5 ^h 34'	28 ^h 45'	28 ^h 55'	0 ^h 6'	1 ^h 3'
F21	11 54 12	0 ^h 25'03"	25 ^m 35'	9 ^h 36'	27 ^h 14'	25 ^h 20'	12 ^h 57'	9 ^h 0'	7 ^h 32'	29 ^h 29'	5 ^h 34'	28 ^h 45'	28 ^h 52'	0 ^h 13'	0 ^h 59'
S22	11 58 9	1 ^h 24'36"	7 ^m 23'	11 ^h 35'	28 ^h 28'	24 ^h 57'	13 ^h 9'	9 ^h 8'	7 ^h 35'	29 ^h 30'	5 ^h 33'	28 ^h 45'	28 ^h 49'	0 ^h 19'	0 ^h 55'
S23	12 2 5	2 ^h 24'07"	19 ^m 15'	13 ^h 32'	29 ^h 43'	24 ^h 33'	13 ^h 20'	9 ^h 15'	7 ^h 37'	29 ^h 31'	5 ^h 33'	28 ^h 45'	28 ^h 46'	0 ^h 26'	0 ^h 52'
M24	12 6 2	3 ^h 23'36"	1 ^m 12'	15 ^h 27'	0 ^h 58'	24 ^h 10'	13 ^h 32'	9 ^h 23'	7 ^h 40'	29 ^h 33'	5 ^h 32'	28 ^h R45	28 ^h 43'	0 ^h 33'	0 ^h 48'
T25	12 9 58	4 ^h 23'03"	13 ^m 17'	17 ^h 21'	2 ^h 12'	23 ^h 48'	13 ^h 43'	9 ^h 30'	7 ^h 42'	29 ^h 34'	5 ^h 32'	28 ^h 45'	28 ^h 40'	0 ^h 39'	0 ^h 44'
W26	12 13 55	5 ^h 22'27"	25 ^m 31'	19 ^h 13'	3 ^h 27'	23 ^h 25'	13 ^h 55'	9 ^h 38'	7 ^h 44'	29 ^h 35'	5 ^h 31'	28 ^h 45'	28 ^h 36'	0 ^h 46'	0 ^h 40'
T27	12 17 51	6 ^h 21'50"	7 ^m 56'	21 ^h 2'	4 ^h 42'	23 ^h 3'	14 ^h 6'	9 ^h 45'	7 ^h 46'	29 ^h 36'	5 ^h 30'	28 ^h 44'	28 ^h 33'	0 ^h 53'	0 ^h 36'
F28	12 21 48	7 ^h 21'11"	20 ^m 34'	22 ^h 47'	5 ^h 56'	22 ^h 41'	14 ^h 17'	9 ^h 53'	7 ^h 49'	29 ^h 37'	5 ^h 30'	28 ^h 43'	28 ^h 30'	0 ^h 59'	0 ^h 33'
S29	12 25 44	8 ^h 20'31"	3 ^m 25'	24 ^h 30'	7 ^h 11'	22 ^h 20'	14 ^h 28'	10 ^h 0'	7 ^h 51'	29 ^h 39'	5 ^h 29'	28 ^h 42'	28 ^h 27'	1 ^h 6'	0 ^h 28'
S30	12 29 41	9 ^h 19'48"	16 ^m 32'	26 ^h 8'	8 ^h 25'	21 ^h 59'	14 ^h 39'	10 ^h 8'	7 ^h 53'	29 ^h 40'	5 ^h 28'	28 ^h 41'	28 ^h 24'	1 ^h 12'	0 ^h 24'
M31	12 33 38	10 ^h 19'04"	29 ^m 56'	27 ^h 42'	9 ^h 40'	21 ^h 39'	14 ^h 50'	10 ^h 15'	7 ^h 55'	29 ^h 41'	5 ^h 28'	28 ^h 40'	28 ^h 21'	1 ^h 19'	0 ^h 20'

Delta T = 62.41 sec.

APRIL 1997

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 37 34	11 ^h 18'18"	13 ^m 38"	29 ^h 11'	10 ^h 54'	21 ^h R19	15 ^h 1'	10 ^h 23'	7 ^h 57'	29 ^h 42'	5 ^h R27	28 ^h D40	28 ^h 17'	1 ^h 26'	0 ^h R16
W 2	12 41 31	12 ^h 17'30"	27 ^m 39"	0 ^h 35'	12 ^h 9'	20 ^h 59'	15 ^h 11'	10 ^h 31'	7 ^h 59'	29 ^h 43'	5 ^h 26'	28 ^h D40	28 ^h 14'	1 ^h 32'	0 ^h M12
T 3	12 45 27	13 ^h 16'40"	11 ^m 57"	1 ^h 54'	13 ^h 23'	20 ^h 41'	15 ^h 22'	10 ^h 38'	8 ^h 1'	29 ^h 44'	5 ^h 25'	28 ^h 41'	28 ^h 11'	1 ^h 39'	0 ^h 7'
F 4	12 49 24	14 ^h 15'49"	26 ^m 31"	3 ^h 8'	14 ^h 38'	20 ^h 22'	15 ^h 32'	10 ^h 46'	8 ^h 3'	29 ^h 45'	5 ^h 25'	28 ^h 42'	28 ^h 8'	1 ^h 46'	0 ^h 3'
S 5	12 53 20	15 ^h 14'56"	11 ^m 15"	4 ^h 15'	15 ^h 52'	20 ^h 5'	15 ^h 43'	10 ^h 53'	8 ^h 5'	29 ^h 46'	5 ^h 24'	28 ^h 43'	28 ^h 5'	1 ^h 52'	29 ^h 59'
S 6	12 57 17	16 ^h 14'01"	26 ^m 6'	5 ^h 16'	17 ^h 7'	19 ^h 48'	15 ^h 53'	11 ^h 1'	8 ^h 6'	29 ^h 46'	5 ^h 23'	28 ^h R44	28 ^h 1'	1 ^h 59'	29 ^h 54'
M 7	13 1 13	17 ^h 13'04"	10 ^m 54'	6 ^h 12'	18 ^h 21'	19 ^h 31'	16 ^h 3'	11 ^h 8'	8 ^h 8'	29 ^h 47'	5 ^h 22'	28 ^h 43'	27 ^h 58'	2 ^h 6'	29 ^h 50'
T 8	13 5 10	18 ^h 12'05"	25 ^m 34'	7 ^h 1'	19 ^h 35'	19 ^h 16'	16 ^h 13'	11 ^h 16'	8 ^h 10'	29 ^h 48'	5 ^h 21'	28 ^h 42'	27 ^h 55'	2 ^h 12'	29 ^h 45'
W 9	13 9 6	19 ^h 11'04"	9 ^m 58'	7 ^h 43'	20 ^h 50'	19 ^h 1'	16 ^h 23'	11 ^h 23'	8 ^h 12'	29 ^h 49'	5 ^h 20'	28 ^h 40'	27 ^h 52'	2 ^h 19'	29 ^h 41'
T10	13 13 3	20 ^h 10'00"	24 ^m 0'	8 ^h 19'	22 ^h 4'	18 ^h 47'	16 ^h 33'	11 ^h 31'	8 ^h 13'	29 ^h 50'	5 ^h 19'	28 ^h 37'	27 ^h 49'	2 ^h 26'	29 ^h 36'
F11	13 17 0	21 ^h 8'55"	7 ^m 38'	8 ^h 48'	23 ^h 19'	18 ^h 33'	16 ^h 43'	11 ^h 38'	8 ^h 15'	29 ^h 50'	5 ^h 18'	28 ^h 34'	27 ^h 46'	2 ^h 32'	29 ^h 32'
S12	13 20 56	22 ^h 7'48"	20 ^m 51'	9 ^h 11'	24 ^h 33'	18 ^h 21'	16 ^h 52'	11 ^h 45'	8 ^h 16'	29 ^h 51'	5 ^h 17'	28 ^h 31'	27 ^h 42'	2 ^h 39'	29 ^h 27'
S13	13 24 53	23 ^h 6'38"	3 ^m 40'	9 ^h 27'	25 ^h 47'	18 ^h 9'	17 ^h 2'	11 ^h 53'	8 ^h 18'	29 ^h 52'	5 ^h 16'	28 ^h 28'	27 ^h 39'	2 ^h 46'	29 ^h 22'
M14	13 28 49	24 ^h 5'26"	16 ^m 8'	9 ^h 36'	27 ^h 1'	17 ^h 58'	17 ^h 11'	12 ^h 0'	8 ^h 19'	29 ^h 52'	5 ^h 15'	28 ^h 27'	27 ^h 36'	2 ^h 52'	29 ^h 18'
T15	13 32 46	25 ^h 4'12"	28 ^m 19'	9 ^h R39	28 ^h 16'	17 ^h 47'	17 ^h 20'	12 ^h 8'	8 ^h 21'	29 ^h 53'	5 ^h 13'	28 ^h D27	27 ^h 33'	2 ^h 59'	29 ^h 13'
W16	13 36 42	26 ^h 2'55"	10 ^m 17'	9 ^h 36'	29 ^h 30'	17 ^h 38'	17 ^h 29'	12 ^h 15'	8 ^h 22'	29 ^h 53'	5 ^h 12'	28 ^h 27'	27 ^h 30'	3 ^h 6'	29 ^h 8'
T17	13 40 39	27 ^h 1'36"	22 ^m 8'	9 ^h 27'	0 ^h 44'	17 ^h 29'	17 ^h 38'	12 ^h 23'	8 ^h 23'	29 ^h 54'	5 ^h 11'	28 ^h 29'	27 ^h 27'	3 ^h 12'	29 ^h 4'

SWISS EPHEMERIS for the year 1997

MAY 1997

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	14 35 51	10♌39'47	22♋23	1♈R43	18♌1	16♎48	19♋30	14♏3	8♋37	29♌57	4♈R53	27♎56	26♎42	4♎46	27♈59
F 2	14 39 47	11♌38'01	6♋39	1♌12	19♌15	16♌51	19♌37	14♏10	8♌37	29♈R57	4♌51	27♌57	26♌39	4♌52	27♌55
S 3	14 43 44	12♌36'13	21° 0	0°44	20°29	16°54	19°44	14°17	8°38	29°57	4°50	27°R58	26°36	4°59	27°50
S 4	14 47 40	13♌34'24	5♏25	0°21	21°43	16°58	19°50	14°24	8°38	29°57	4°48	27°58	26°32	5° 5	27°46
M 5	14 51 37	14♌32'34	19°49	0° 1	22°57	17° 3	19°57	14°31	8°39	29°57	4°47	27°56	26°29	5°12	27°42
T 6	14 55 33	15♌30'42	4♌7	29♏46	24°11	17° 9	20° 3	14°38	8°39	29°57	4°45	27°52	26°26	5°19	27°37
W 7	14 59 30	16♌28'49	18°14	29°36	25°25	17°15	20° 9	14°45	8°39	29°57	4°44	27°46	26°23	5°25	27°33
T 8	15 3 27	17♌26'53	2♏6	29°30	26°39	17°22	20°15	14°52	8°40	29°57	4°42	27°38	26°20	5°32	27°29
F 9	15 7 23	18♌24'56	15°38	29°D29	27°53	17°29	20°21	14°58	8°40	29°57	4°40	27°30	26°17	5°39	27°25
S 10	15 11 20	19♌22'58	28°48	29°32	29° 7	17°37	20°27	15° 5	8°40	29°56	4°39	27°21	26°13	5°45	27°21
S 11	15 15 16	20♌20'58	11♏37	29°40	0♏20	17°46	20°32	15°12	8°40	29°56	4°37	27°14	26°10	5°52	27°16
M 12	15 19 13	21♌18'55	24° 6	29°53	1°34	17°55	20°38	15°18	8°40	29°56	4°36	27° 9	26° 7	5°59	27°12
T 13	15 23 9	22♌16'51	6♏18	0♌10	2°48	18° 5	20°43	15°25	8°R40	29°55	4°34	27° 5	26° 4	6° 5	27° 9
W 14	15 27 6	23♌14'46	18°17	0°32	4° 2	18°16	20°48	15°31	8°40	29°55	4°32	27°D 4	26° 1	6°12	27° 5
T 15	15 31 2	24♌12'38	0♎8	0°58	5°16	18°27	20°53	15°38	8°40	29°55	4°31	27° 4	25°58	6°19	27° 1
F 16	15 34 59	25♌10'29	11°57	1°28	6°29	18°39	20°58	15°44	8°40	29°54	4°29	27° 4	25°54	6°25	26°57
S 17	15 38 56	26° 8'18	23°48	2° 2	7°43	18°51	21° 2	15°51	8°40	29°54	4°28	27°R 5	25°51	6°32	26°54
S 18	15 42 52	27° 6'05	5♌47	2°41	8°57	19° 4	21° 6	15°57	8°40	29°53	4°26	27° 5	25°48	6°39	26°50
M 19	15 46 49	28° 3'50	17°59	3°23	10°10	19°18	21°11	16° 3	8°40	29°53	4°24	27° 3	25°45	6°45	26°46
T 20	15 50 45	29° 1'34	0♏25	4° 8	11°24	19°31	21°15	16° 9	8°39	29°52	4°23	26°58	25°42	6°52	26°43
W 21	15 54 42	29°59'17	13°10	4°57	12°38	19°46	21°18	16°15	8°39	29°52	4°21	26°51	25°38	6°59	26°40
T 22	15 58 38	0♏56'58	26°13	5°50	13°51	20° 1	21°22	16°22	8°39	29°51	4°19	26°42	25°35	7° 5	26°36
F 23	16 2 35	1°54'38	9♌34	6°46	15° 5	20°16	21°26	16°28	8°38	29°50	4°18	26°32	25°32	7°12	26°33
S 24	16 6 31	2°52'17	23°12	7°45	16°18	20°32	21°29	16°34	8°38	29°50	4°16	26°21	25°29	7°19	26°30
S 25	16 10 28	3°49'54	7♌2	8°48	17°32	20°49	21°32	16°40	8°37	29°49	4°15	26°11	25°26	7°25	26°27
M 26	16 14 25	4°47'31	21° 1	9°53	18°46	21° 6	21°35	16°45	8°36	29°48	4°13	26° 3	25°23	7°32	26°24
T 27	16 18 21	5°45'06	5♋5	11° 2	19°59	21°23	21°38	16°51	8°36	29°48	4°11	25°57	25°19	7°39	26°21
W 28	16 22 18	6°42'41	19°13	12°13	21°13	21°41	21°40	16°57	8°35	29°47	4°10	25°54	25°16	7°45	26°18
T 29	16 26 14	7°40'15	3♌22	13°27	22°26	21°59	21°43	17° 3	8°34	29°46	4° 8	25°D53	25°13	7°52	26°16
F 30	16 30 11	8°37'47	17°29	14°44	23°40	22°18	21°45	17° 8	8°34	29°45	4° 6	25°53	25°10	7°58	26°13
S 31	16 34 7	9♏35'19	1♏35	16♌4	24♏53	22♎37	21♋47	17♏14	8♋33	29♌44	4♌5	25°R53	25♎7	8♎5	26♌11

Delta T = 62.53 sec.

JUNE 1997

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	16 38 4	10♏32'51	15♏39	17♌27	26♏7	22♎56	21♋49	17♏19	8°R32	29°R43	4°R 3	25°R52	25♎4	8♎12	26°R 8
M 2	16 42 0	11°30'21	29°37	18°52	27°20	23°16	21°50	17°25	8♋31	29♌42	4♌1	25♎49	25° 0	8°18	26♌6
T 3	16 45 57	12°27'51	13♌30	20°20	28°33	23°36	21°52	17°30	8°30	29°41	4° 0	25°42	24°57	8°25	26° 4
W 4	16 49 54	13°25'20	27°13	21°50	29°47	23°57	21°53	17°36	8°29	29°41	3°58	25°33	24°54	8°32	26° 1
T 5	16 53 50	14°22'48	10♏44	23°24	1♌0	24°18	21°54	17°41	8°28	29°40	3°57	25°22	24°51	8°38	25°59
F 6	16 57 47	15°20'15	24° 0	25° 0	2°14	24°40	21°55	17°46	8°27	29°38	3°55	25°10	24°48	8°45	25°57
S 7	17 1 43	16°17'41	6♌59	26°38	3°27	25° 2	21°56	17°51	8°26	29°37	3°53	24°58	24°44	8°52	25°56
S 8	17 5 40	17°15'06	19°40	28°19	4°40	25°24	21°56	17°56	8°25	29°36	3°52	24°47	24°41	8°58	25°54
M 9	17 9 36	18°12'30	2♏4	0♏3	5°54	25°47	21°56	18° 1	8°23	29°35	3°50	24°38	24°38	9° 5	25°52
T 10	17 13 33	19° 9'53	14°13	1°49	7° 7	26° 9	21°R56	18° 6	8°22	29°34	3°49	24°31	24°35	9°12	25°51
W 11	17 17 29	20° 7'16	26°11	3°37	8°20	26°33	21°56	18°11	8°21	29°33	3°47	24°27	24°32	9°18	25°49
T 12	17 21 26	21° 4'37	8♎2	5°28	9°34	26°56	21°56	18°16	8°19	29°32	3°45	24°26	24°29	9°25	25°48
F 13	17 25 23	22° 1'57	19°50	7°22	10°47	27°20	21°56	18°20	8°18	29°31	3°44	24°25	24°25	9°32	25°47
S 14	17 29 19	22°59'16	1♌42	9°18	12° 0	27°45	21°55	18°25	8°17	29°29	3°42	24°25	24°22	9°38	25°46
S 15	17 33 16	23°56'34	13°42	11°16	13°13	28° 9	21°54	18°30	8°15	29°28	3°41	24°24	24°19	9°45	25°45
M 16	17 37 12	24°53'52	25°56	13°17	14°27	28°34	21°53	18°34	8°14	29°27	3°39	24°22	24°16	9°52	25°44
T 17	17 41 9	25°51'08	8♎29	15°19	15°40	28°59	21°52	18°38	8°12	29°26	3°38	24°17	24°13	9°58	25°43
W 18	17 45 5	26°48'24	21°23	17°24	16°53	29°25	21°50	18°43	8°10	29°24	3°36	24° 9	24°10	10° 5	25°42
T 19	17 49 2	27°45'39	4♌40	19°30	18° 6	29°51	21°49	18°47	8° 9	29°23	3°35	24° 0	24° 6	10°11	25°42
F 20	17 52 58	28°42'54	18°20	21°37	19°19	0♌17	21°47	18°51	8° 7	29°22	3°33	23°48	24° 3	10°18	25°41
S 21	17 56 55	29°40'08	2♌20	23°46	20°32	0°43	21°45	18°55	8° 6	29°20	3°32	23°37	24° 0	10°25	25°41
S 22	18 0 52	0♌37'22	16°35	25°56	21°45	1°10	21°43	18°59	8° 4	29°19	3°31	23°26	23°57	10°31	25°41
M 23	18 4 48	1°34'35	1♋0	28° 7	22°58	1°37	21°40	19° 3	8° 2	29°18	3°29	23°17	23°54	10°38	25°41
T 24	18 8 45	2°31'48	15°28	0♌18	24°11	2° 4	21°38	19° 7	8° 0	29°16	3°28	23°10	23°50	10°45	25°D41
W 25	18 12 41	3°29'01	29°55	2°30	25°24	2°32	21°35	19°10	7°59	29°15	3°26	23° 7	23°47	10°51	25°41
T 26	18 16 38	4°26'14	14♌15	4°41	26°37	2°59	21°32	19°14	7°57	29°14	3°25	23° 5	23°44	10°58	25°41
F 27	18 20 34	5°23'26	28°27	6°52	27°50	3°27	21°29	19°18	7°55	29°12	3°24	23° 5	23°41	11° 5	25°41
S 28	18 24 31	6°20'39	12♏29	9° 2	29° 3	3°55	21°26	19°21	7°53	29°11	3°22	23° 5	23°38	11°11	25°42
S 29	18 28 27	7°17'52	26°20	11°12	0♏16	4°24	21°22	19°24	7°51	29° 9	3°21	23° 4	23°35	11°18	25°42
M 30	18 32 24	8♌15'05	10♌2	13♌20	1♏29	4♌53	21♋19	19♏28	7♋49	29♌8	3♌20	23♎1	23♎31	11♎25	25♌43

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SWISS EPHEMERIS for the year 1997

JULY 1997

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	18 36 21	9°12'18"	23°32'	15°28'	2°42'	5°22'	21°R15	19°Y31	7°R47	29°R 6	3°R19	22°R55	23°R28	11°R31	25°R44
W 2	18 40 17	10° 9'32"	6°11'52"	17°34'	3°55'	5°51'	21°R11	19°34'	7°R45	29°R 5	3°R17	22°R46	23°R25	11°R38	25°R44
T 3	18 44 14	11° 6'45"	20° 0'	19°38'	5° 8'	6°20'	21° 7'	19°37'	7°43'	29° 3'	3°16'	22°36'	23°22'	11°45'	25°R45
F 4	18 48 10	12° 3'59"	2°55'	21°41'	6°21'	6°50'	21° 2'	19°40'	7°41'	29° 2'	3°15'	22°24'	23°19'	11°51'	25°R47
S 5	18 52 7	13° 1'12"	15°37'	23°42'	7°34'	7°20'	20°58'	19°43'	7°39'	29° 0'	3°14'	22°12'	23°16'	11°58'	25°R48
S 6	18 56 3	13°58'26"	28° 4'	25°41'	8°46'	7°50'	20°53'	19°45'	7°37'	28°59'	3°13'	22° 1'	23°12'	12° 5'	25°R49
M 7	19 0 0	14°55'39"	10°19'	27°38'	9°59'	8°20'	20°48'	19°48'	7°35'	28°57'	3°12'	21°53'	23° 9'	12°11'	25°R50
T 8	19 3 56	15°52'53"	22°22'	29°34'	11°12'	8°51'	20°44'	19°51'	7°32'	28°55'	3°10'	21°46'	23° 6'	12°18'	25°R52
W 9	19 7 53	16°50'06"	4°16'	1°128'	12°25'	9°21'	20°38'	19°53'	7°30'	28°54'	3° 9'	21°43'	23° 3'	12°24'	25°R54
T 10	19 11 50	17°47'19"	16° 5'	3°19'	13°37'	9°52'	20°33'	19°55'	7°28'	28°52'	3° 8'	21°41'	23° 0'	12°31'	25°R55
F 11	19 15 46	18°44'32"	27°52'	5° 9'	14°50'	10°24'	20°28'	19°58'	7°26'	28°51'	3° 7'	21°D41	22°56'	12°38'	25°R57
S 12	19 19 43	19°41'45"	9°43'	6°57'	16° 3'	10°55'	20°22'	20° 0'	7°24'	28°49'	3° 6'	21°42'	22°53'	12°44'	25°R59
S 13	19 23 39	20°38'58"	21°42'	8°43'	17°15'	11°26'	20°16'	20° 2'	7°21'	28°48'	3° 5'	21°R42	22°50'	12°51'	26° 1'
M14	19 27 36	21°36'11"	3°11'56"	10°26'	18°28'	11°58'	20°15'	20° 4'	7°19'	28°46'	3° 4'	21°41'	22°47'	12°58'	26° 3'
T 15	19 31 32	22°33'25"	16°29'	12° 8'	19°41'	12°30'	20° 5'	20° 6'	7°17'	28°44'	3° 3'	21°38'	22°44'	13° 4'	26° 6'
W16	19 35 29	23°30'38"	29°26'	13°48'	20°53'	13° 2'	19°58'	20° 7'	7°14'	28°43'	3° 3'	21°34'	22°41'	13°11'	26° 8'
T 17	19 39 25	24°27'51"	12°14'	15°26'	22° 6'	13°35'	19°52'	20° 9'	7°12'	28°41'	3° 2'	21°27'	22°37'	13°18'	26°11'
F 18	19 43 22	25°25'05"	2°437'	17° 2'	23°18'	14° 7'	19°46'	20°11'	7°10'	28°39'	3° 1'	21°19'	22°34'	13°24'	26°13'
S 19	19 47 19	26°22'19"	10°351'	18°37'	24°31'	14°40'	19°39'	20°12'	7° 8'	28°38'	3° 0'	21°10'	22°31'	13°31'	26°16'
S 20	19 51 15	27°19'33"	25°25'	20° 9'	25°43'	15°13'	19°33'	20°13'	7° 5'	28°36'	2°59'	21° 2'	22°28'	13°38'	26°19'
M21	19 55 12	28°16'48"	10°R12	21°39'	26°55'	15°46'	19°26'	20°15'	7° 3'	28°35'	2°59'	20°55'	22°25'	13°44'	26°22'
T 22	19 59 8	29°14'03"	25° 3'	23° 7'	28° 8'	16°19'	19°19'	20°16'	7° 0'	28°33'	2°58'	20°51'	22°22'	13°51'	26°25'
W23	20 3 5	0°11'19"	9°R52	24°33'	29°20'	16°52'	19°12'	20°17'	6°58'	28°31'	2°57'	20°49'	22°18'	13°58'	26°28'
T 24	20 7 1	1° 8'36"	24°32'	25°58'	0°R32	17°26'	19° 5'	20°18'	6°56'	28°30'	2°56'	20°D48	22°15'	14° 4'	26°31'
F 25	20 10 58	2° 5'53"	8°Y57	27°20'	1°45'	18° 0'	18°58'	20°19'	6°53'	28°28'	2°56'	20°49'	22°12'	14°11'	26°34'
S 26	20 14 54	3° 3'12"	23° 6'	28°40'	2°57'	18°33'	18°51'	20°19'	6°51'	28°26'	2°55'	20°50'	22° 9'	14°17'	26°38'
S 27	20 18 51	4° 0'31"	6°R57	29°58'	4° 9'	19° 7'	18°44'	20°20'	6°49'	28°25'	2°55'	20°R50	22° 6'	14°24'	26°41'
M28	20 22 48	4°57'52"	20°31	1°R14	5°21	19°42'	18°37'	20°20'	6°46'	28°23'	2°54'	20°49'	22° 2'	14°31'	26°45'
T 29	20 26 44	5°55'13"	3°R49	2°27	6°33	20°16'	18°29'	20°21'	6°44'	28°22'	2°54'	20°46'	21°59'	14°37'	26°48'
W30	20 30 41	6°52'36"	16°51	3°38	7°45	20°51	18°22'	20°21'	6°41'	28°20'	2°53'	20°41'	21°56'	14°44'	26°52'
T 31	20 34 37	7°50'00"	29°R40	4°R47	8°R57	21°R25	18°R14	20°Y21	6°R39	28°R18	2°R53	20°R35	21°R53	14°R51	26°R56

Delta T = 62.64 sec.

AUGUST 1997

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	20 38 34	8°14'24"	12°16'	5°R53	10°R10	22°R 0	18°R 6	20°Y22	6°R37	28°R17	2°R52	20°R28	21°R50	14°R57	27°R 0
S 2	20 42 30	9°44'50"	24°40'	6°57'	11°22'	22°35'	17°R59	20°R22	6°R34	28°R15	2°R52	20°R20	21°R47	15° 4'	27° 4'
S 3	20 46 27	10°42'16"	6°R53	7°58'	12°34'	23°10'	17°51'	20°22'	6°32'	28°14'	2°51'	20°14'	21°43'	15°11'	27° 8'
M 4	20 50 23	11°39'44"	18°56'	8°57'	13°45'	23°46'	17°43'	20°21'	6°29'	28°12'	2°51'	20° 8'	21°40'	15°17'	27°13'
T 5	20 54 20	12°37'12"	0°R52	9°52'	14°57'	24°21'	17°36'	20°21'	6°27'	28°11'	2°51'	20° 5'	21°37'	15°24'	27°17'
W 6	20 58 17	13°34'41"	12°42'	10°45'	16° 9'	24°57'	17°28'	20°21'	6°25'	28° 9'	2°51'	20° 3'	21°34'	15°31'	27°21'
T 7	21 2 13	14°32'11"	24°28'	11°34'	17°21'	25°32'	17°20'	20°20'	6°22'	28° 7'	2°50'	20°D 3	21°31'	15°37'	27°26'
F 8	21 6 10	15°29'42"	6°R15	12°20'	18°33'	26° 8'	17°12'	20°20'	6°20'	28° 6'	2°50'	20° 4'	21°27'	15°44'	27°30'
S 9	21 10 6	16°27'14"	18° 6'	13° 2'	19°45'	26°44'	17° 4'	20°19'	6°18'	28° 4'	2°50'	20° 5'	21°24'	15°50'	27°35'
S 10	21 14 3	17°24'47"	0°R 5	13°41'	20°56'	27°21'	16°57'	20°18'	6°15'	28° 3'	2°50'	20° 7'	21°21'	15°57'	27°40'
M11	21 17 59	18°22'20"	12°18'	14°16'	22° 8'	27°57'	16°49'	20°17'	6°13'	28° 1'	2°50'	20° 8'	21°18'	16° 4'	27°45'
T 12	21 21 56	19°19'55"	24°49'	14°47'	23°20'	28°33'	16°41'	20°16'	6°11'	28° 0'	2°50'	20°R 8	21°15'	16°10'	27°50'
W13	21 25 52	20°17'30"	7°R42	15°13'	24°31'	29°10'	16°33'	20°15'	6° 8'	27°58'	2°D50	20° 7'	21°12'	16°17'	27°55'
T 14	21 29 49	21°15'06"	21° 2'	15°35'	25°43'	29°47'	16°25'	20°14'	6° 6'	27°57'	2°50'	20° 4'	21° 8'	16°24'	28° 0'
F 15	21 33 46	22°12'43"	4°R49	15°53'	26°54'	0°R24	16°18'	20°13'	6° 4'	27°55'	2°50'	20° 1'	21° 5'	16°30'	28° 5'
S 16	21 37 42	23°10'22"	19° 4'	16° 5'	28° 6'	1° 0'	16°10'	20°11'	6° 1'	27°54'	2°50'	19°57'	21° 2'	16°37'	28°11'
S 17	21 41 39	24° 8'01"	3°R43	16°12'	29°17'	1°38'	16° 2'	20°10'	5°59'	27°53'	2°50'	19°54'	20°59'	16°44'	28°16'
M18	21 45 35	25° 5'42"	18°40'	16°R14	0°R28	2°15'	15°55'	20° 8'	5°57'	27°51'	2°50'	19°51'	20°56'	16°50'	28°22'
T 19	21 49 32	26° 3'23"	3°R47	16°10'	1°39'	2°52'	15°47'	20° 6'	5°55'	27°50'	2°50'	19°49'	20°53'	16°57'	28°27'
W20	21 53 28	27° 1'06"	18°54'	16° 1'	2°51'	3°30'	15°39'	20° 5'	5°53'	27°48'	2°50'	19°D48	20°49'	17° 4'	28°33'
T 21	21 57 25	27°58'51"	3°Y53	15°45'	4° 2'	4° 7'	15°32'	20° 3'	5°50'	27°47'	2°51'	19°49'	20°46'	17°10'	28°38'
F 22	22 1 21	28°56'37"	18°37'	15°25'	5°13'	4°45'	15°24'	20° 1'	5°48'	27°46'	2°51'	19°50'	20°43'	17°17'	28°44'
S 23	22 5 18	29°54'25"	3°R 0	14°58'	6°24'	5°23'	15°17'	19°59'	5°46'	27°44'	2°51'	19°51'	20°40'	17°24'	28°50'
S 24	22 9 15	0°R52'14"	16°59'	14°26'	7°35'	6° 1'	15°10'	19°56'	5°44'	27°43'	2°52'	19°52'	20°37'	17°30'	28°56'
M25	22 13 11	1°50'06"	0°R36	13°48'	8°46'	6°39'	15° 3'	19°54'	5°42'	27°42'	2°52'	19°R53	20°33'	17°37'	29° 2'
T 26	22 17 8	2°47'59"	13°50'	13° 6'	9°57'	7°17'	14°55'	19°52'	5°40'	27°41'	2°52'	19°52'	20°30'	17°43'	29° 8'
W27	22 21 4	3°45'54"	26°44'	12°19'	11° 8'	7°56'	14°48'	19°49'	5°38'	27°39'	2°53'	19°51'	20°27'	17°50'	29°14'
T 28	22 25 1	4°43'51"	9°R20	11°28'	12°19'	8°34'	14°42'	19°47'	5°36'	27°38'	2°53'	19°50'	20°24'	17°57'	29°20'
F 29	22 28 57	5°41'49"	21°43'	10°35'	13°29'	9°13'	14°35'	19°44'	5°34'	27°37'	2°54'	19°48'	20°21'	18° 3'	29°27'
S 30	22 32 54	6°39'50"	3°R53	9°39'	14°40'	9°51'	14°28'	19°41'	5°32'	27°36'	2°54'	19°46'	20°18'	18°10'	29°33'
S 31	22 36 50	7°R37'52"	15°R54	8°R43	15°R51	10°R30	14°R21	19°Y39	5°R30	27°R35	2°R55	19°R44	20°R14	18°R17	29°R39

Delta T = 62.70 sec.

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SWISS EPHEMERIS for the year 1997

SEPTEMBER 1997

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	22 40 47	8 ^h 35'55"	27 ^h 04'48"	7 ^h R47	17 ^h 1 ^m 1	11 ^h 1 ^m 9	14 ^h R15	19 ^h R36	5 ^h R28	27 ^h R33	2 ^h 55'	19 ^h R43	20 ^h 11'	18 ^h 23'	29 ^h 24'46"
T 2	22 44 44	9 ^h 34'01"	9 ^h 38'	6 ^h 53'	18 ^h 12'	11 ^h 48'	14 ^h 8'	19 ^h Y33	5 ^h 26'	27 ^h 32'	2 ^h 56'	19 ^h 42'	20 ^h 8'	18 ^h 30'	29 ^h 52'
W 3	22 48 40	10 ^h 32'08"	21 ^h 25'	6 ^h 1'	19 ^h 22'	12 ^h 27'	14 ^h 2'	19 ^h 30'	5 ^h 24'	27 ^h 31'	2 ^h 57'	19 ^h D42	20 ^h 5'	18 ^h 37'	29 ^h 59'
T 4	22 52 37	11 ^h 30'16"	3 ^h 12'	5 ^h 13'	20 ^h 33'	13 ^h 7'	13 ^h 56'	19 ^h 26'	5 ^h 23'	27 ^h 30'	2 ^h 57'	19 ^h 42'	20 ^h 2'	18 ^h 43'	0 ^h 11'6"
F 5	22 56 33	12 ^h 28'26"	15 ^h 1'	4 ^h 30'	21 ^h 43'	13 ^h 46'	13 ^h 50'	19 ^h 23'	5 ^h 21'	27 ^h 29'	2 ^h 58'	19 ^h 43'	19 ^h 59'	18 ^h 50'	0 ^h 12'
S 6	23 0 30	13 ^h 26'38"	26 ^h 55'	3 ^h 53'	22 ^h 53'	14 ^h 26'	13 ^h 44'	19 ^h 20'	5 ^h 19'	27 ^h 28'	2 ^h 59'	19 ^h 43'	19 ^h 55'	18 ^h 57'	0 ^h 19'
S 7	23 4 26	14 ^h 24'52"	8 ^h 15'58"	3 ^h 23'	24 ^h 3'	15 ^h 5'	13 ^h 38'	19 ^h 17'	5 ^h 17'	27 ^h 27'	3 ^h 0'	19 ^h 44'	19 ^h 52'	19 ^h 3'	0 ^h 26'
M 8	23 8 23	15 ^h 23'06"	21 ^h 13'	3 ^h 1'	25 ^h 14'	15 ^h 45'	13 ^h 33'	19 ^h 13'	5 ^h 16'	27 ^h 26'	3 ^h 1'	19 ^h 44'	19 ^h 49'	19 ^h 10'	0 ^h 33'
T 9	23 12 19	16 ^h 21'23"	3 ^h 44'	2 ^h 47'	26 ^h 24'	16 ^h 25'	13 ^h 27'	19 ^h 10'	5 ^h 14'	27 ^h 25'	3 ^h 1'	19 ^h 45'	19 ^h 46'	19 ^h 16'	0 ^h 40'
W10	23 16 16	17 ^h 19'41"	16 ^h 34'	2 ^h D42	27 ^h 34'	17 ^h 5'	13 ^h 22'	19 ^h 6'	5 ^h 13'	27 ^h 24'	3 ^h 2'	19 ^h R45	19 ^h 43'	19 ^h 23'	0 ^h 47'
T 11	23 20 12	18 ^h 18'01"	29 ^h 47'	2 ^h 46'	28 ^h 44'	17 ^h 45'	13 ^h 17'	19 ^h 2'	5 ^h 11'	27 ^h 23'	3 ^h 3'	19 ^h 45'	19 ^h 39'	19 ^h 30'	0 ^h 54'
F 12	23 24 9	19 ^h 16'22"	13 ^h 36'	2 ^h 59'	29 ^h 53'	18 ^h 25'	13 ^h 12'	18 ^h 59'	5 ^h 9'	27 ^h 23'	3 ^h 4'	19 ^h D45	19 ^h 36'	19 ^h 36'	1 ^h 1'
S 13	23 28 6	20 ^h 14'44"	27 ^h 31'	3 ^h 21'	1 ^h 1 ^m 3	19 ^h 5'	13 ^h 7'	18 ^h 55'	5 ^h 8'	27 ^h 22'	3 ^h 5'	19 ^h 45'	19 ^h 33'	19 ^h 43'	1 ^h 8'
S 14	23 32 2	21 ^h 13'09"	12 ^h 1 ^m 1	3 ^h 52'	2 ^h 13'	19 ^h 46'	13 ^h 3'	18 ^h 51'	5 ^h 7'	27 ^h 21'	3 ^h 6'	19 ^h 45'	19 ^h 30'	19 ^h 50'	1 ^h 16'
M15	23 35 59	22 ^h 11'34"	26 ^h 53'	4 ^h 32'	3 ^h 22'	20 ^h 26'	12 ^h 58'	18 ^h 47'	5 ^h 5'	27 ^h 20'	3 ^h 7'	19 ^h 45'	19 ^h 27'	19 ^h 56'	1 ^h 23'
T 16	23 39 55	23 ^h 10'02"	11 ^h 59'	5 ^h 20'	4 ^h 32'	21 ^h 7'	12 ^h 54'	18 ^h 43'	5 ^h 4'	27 ^h 19'	3 ^h 8'	19 ^h R45	19 ^h 24'	20 ^h 3'	1 ^h 30'
W17	23 43 52	24 ^h 8'31"	27 ^h 12'	6 ^h 16'	5 ^h 41'	21 ^h 47'	12 ^h 50'	18 ^h 39'	5 ^h 3'	27 ^h 19'	3 ^h 10'	19 ^h 45'	19 ^h 20'	20 ^h 10'	1 ^h 38'
T 18	23 47 48	25 ^h 7'02"	12 ^h Y22	7 ^h 19'	6 ^h 51'	22 ^h 28'	12 ^h 46'	18 ^h 35'	5 ^h 1'	27 ^h 18'	3 ^h 11'	19 ^h 45'	19 ^h 17'	20 ^h 16'	1 ^h 45'
F 19	23 51 45	26 ^h 5'36"	27 ^h 19'	8 ^h 30'	8 ^h 0'	23 ^h 9'	12 ^h 42'	18 ^h 31'	5 ^h 0'	27 ^h 17'	3 ^h 12'	19 ^h 44'	19 ^h 14'	20 ^h 23'	1 ^h 53'
S 20	23 55 41	27 ^h 4'11"	11 ^h 57'	9 ^h 46'	9 ^h 9'	23 ^h 50'	12 ^h 38'	18 ^h 27'	4 ^h 59'	27 ^h 17'	3 ^h 13'	19 ^h 43'	19 ^h 11'	20 ^h 30'	2 ^h 0'
S 21	23 59 38	28 ^h 2'48"	26 ^h 9'	11 ^h 8'	10 ^h 18'	24 ^h 31'	12 ^h 35'	18 ^h 22'	4 ^h 58'	27 ^h 16'	3 ^h 14'	19 ^h 43'	19 ^h 8'	20 ^h 36'	2 ^h 8'
M22	0 3 35	29 ^h 1'28"	9 ^h 11'54"	12 ^h 35'	11 ^h 27'	25 ^h 12'	12 ^h 32'	18 ^h 18'	4 ^h 57'	27 ^h 16'	3 ^h 16'	19 ^h 42'	19 ^h 4'	20 ^h 43'	2 ^h 15'
T23	0 7 31	0 ^h 0'10"	23 ^h 13'	14 ^h 6'	12 ^h 36'	25 ^h 53'	12 ^h 28'	18 ^h 14'	4 ^h 56'	27 ^h 15'	3 ^h 17'	19 ^h 41'	19 ^h 1'	20 ^h 49'	2 ^h 23'
W24	0 11 28	0 ^h 58'55"	6 ^h 6'	15 ^h 41'	13 ^h 45'	26 ^h 35'	12 ^h 26'	18 ^h 9'	4 ^h 55'	27 ^h 15'	3 ^h 18'	19 ^h D41	18 ^h 58'	20 ^h 56'	2 ^h 31'
T25	0 15 24	1 ^h 57'41"	18 ^h 39'	17 ^h 19'	14 ^h 53'	27 ^h 16'	12 ^h 23'	18 ^h 5'	4 ^h 54'	27 ^h 14'	3 ^h 20'	19 ^h 42'	18 ^h 55'	21 ^h 3'	2 ^h 39'
F 26	0 19 21	2 ^h 56'30"	0 ^h 0'54"	19 ^h 0'	16 ^h 2'	27 ^h 58'	12 ^h 20'	18 ^h 0'	4 ^h 53'	27 ^h 14'	3 ^h 21'	19 ^h 43'	18 ^h 52'	21 ^h 9'	2 ^h 46'
S 27	0 23 17	3 ^h 55'21"	12 ^h 57'	20 ^h 42'	17 ^h 11'	28 ^h 39'	12 ^h 18'	17 ^h 56'	4 ^h 52'	27 ^h 13'	3 ^h 22'	19 ^h 44'	18 ^h 49'	21 ^h 16'	2 ^h 54'
S 28	0 27 14	4 ^h 54'14"	24 ^h 51'	22 ^h 27'	18 ^h 19'	29 ^h 21'	12 ^h 16'	17 ^h 51'	4 ^h 51'	27 ^h 13'	3 ^h 24'	19 ^h 45'	18 ^h 45'	21 ^h 23'	3 ^h 2'
M29	0 31 10	5 ^h 53'10"	6 ^h 39'	24 ^h 13'	19 ^h 27'	0 ^h 3'3	12 ^h 14'	17 ^h 47'	4 ^h 50'	27 ^h 13'	3 ^h 25'	19 ^h 46'	18 ^h 42'	21 ^h 29'	3 ^h 10'
T 30	0 35 7	6 ^h 52'07"	18 ^h 26'	25 ^h 59'	20 ^h 13'5	0 ^h 3'45	12 ^h 12'	17 ^h Y42	4 ^h 49'	27 ^h 12'	3 ^h 27'	19 ^h R47	18 ^h 39'	21 ^h 36'	3 ^h 11'18"

Delta T = 62.76 sec.

OCTOBER 1997

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	0 39 4	7 ^h 51'06	0 ^h 14	27 ^h 47	21 ^h 43	1 ^h 27	12 ^h R11	17 ^h R38	4 ^h R49	27 ^h R12	3 ^h 28	19 ^h R47	18 ^h 36	21 ^h 43	3 ^h 26
T 2	0 43 0	8 ^h 50'08	12 ^h 5	29 ^h 35	22 ^h 51	2 ^h 9	12 ^h 9	17 ^h Y33	4 ^h 48	27 ^h 12	3 ^h 30	19 ^h 45	18 ^h 33	21 ^h 49	3 ^h 34
F 3	0 46 57	9 ^h 49'12	24 ^h 1	1 ^h 23	23 ^h 59	2 ^h 51	12 ^h 8	17 ^h 28	4 ^h 47	27 ^h 11	3 ^h 31	19 ^h 43	18 ^h 30	21 ^h 56	3 ^h 42
S 4	0 50 53	10 ^h 48'17	6 ^h 14	3 ^h 11	25 ^h 7	3 ^h 33	12 ^h 7	17 ^h 24	4 ^h 47	27 ^h 11	3 ^h 33	19 ^h 40	18 ^h 26	22 ^h 3	3 ^h 50
S 5	0 54 50	11 ^h 47'25	18 ^h 17	4 ^h 58	26 ^h 15	4 ^h 16	12 ^h 7	17 ^h 19	4 ^h 46	27 ^h 11	3 ^h 35	19 ^h 36	18 ^h 23	22 ^h 9	3 ^h 58
M 6	0 58 46	12 ^h 46'34	0 ^h 40	6 ^h 46	27 ^h 22	4 ^h 58	12 ^h 6	17 ^h 14	4 ^h 46	27 ^h 11	3 ^h 36	19 ^h 33	18 ^h 20	22 ^h 16	4 ^h 6
T 7	1 2 43	13 ^h 45'46	13 ^h 17	8 ^h 33	28 ^h 29	5 ^h 41	12 ^h 6	17 ^h 10	4 ^h 46	27 ^h 11	3 ^h 38	19 ^h 29	18 ^h 17	22 ^h 22	4 ^h 14
W 8	1 6 39	14 ^h 44'59	26 ^h 9	10 ^h 19	29 ^h 36	6 ^h 23	12 ^h D 6	17 ^h 5	4 ^h 45	27 ^h 11	3 ^h 40	19 ^h 27	18 ^h 14	22 ^h 29	4 ^h 23
T 9	1 10 36	15 ^h 44'14	9 ^h 30	12 ^h 6	0 ^h 43	7 ^h 6	12 ^h 6	17 ^h 0	4 ^h 45	27 ^h D11	3 ^h 41	19 ^h 26	18 ^h 10	22 ^h 36	4 ^h 31
F 10	1 14 32	16 ^h 43'30	22 ^h 50	13 ^h 51	1 ^h 50	7 ^h 49	12 ^h 6	16 ^h 55	4 ^h 45	27 ^h 11	3 ^h 43	19 ^h D26	18 ^h 7	22 ^h 42	4 ^h 39
S 11	1 18 29	17 ^h 42'49	6 ^h 42	15 ^h 36	2 ^h 57	8 ^h 32	12 ^h 6	16 ^h 51	4 ^h 44	27 ^h 11	3 ^h 45	19 ^h 27	18 ^h 4	22 ^h 49	4 ^h 47
S 12	1 22 26	18 ^h 42'09	20 ^h 56	17 ^h 20	4 ^h 4	9 ^h 15	12 ^h 7	16 ^h 46	4 ^h 44	27 ^h 11	3 ^h 47	19 ^h 28	18 ^h 1	22 ^h 56	4 ^h 55
M13	1 26 22	19 ^h 41'31	5 ^h 30	19 ^h 3	5 ^h 10	9 ^h 58	12 ^h 8	16 ^h 41	4 ^h 44	27 ^h 11	3 ^h 49	19 ^h 30	17 ^h 58	23 ^h 2	5 ^h 4
T 14	1 30 19	20 ^h 40'54	20 ^h 22	20 ^h 46	6 ^h 16	10 ^h 41	12 ^h 9	16 ^h 36	4 ^h D44	27 ^h 11	3 ^h 50	19 ^h R30	17 ^h 55	23 ^h 9	5 ^h 12
W15	1 34 15	21 ^h 40'20	5 ^h Y23	22 ^h 28	7 ^h 22	11 ^h 24	12 ^h 10	16 ^h 32	4 ^h 44	27 ^h 11	3 ^h 52	19 ^h 29	17 ^h 51	23 ^h 16	5 ^h 20
T 16	1 38 12	22 ^h 39'47	20 ^h 28	24 ^h 10	8 ^h 28	12 ^h 8	12 ^h 12	16 ^h 27	4 ^h 44	27 ^h 12	3 ^h 54	19 ^h 27	17 ^h 48	23 ^h 22	5 ^h 29
F 17	1 42 8	23 ^h 39'16	5 ^h 26	25 ^h 50	9 ^h 34	12 ^h 51	12 ^h 13	16 ^h 22	4 ^h 44	27 ^h 12	3 ^h 56	19 ^h 23	17 ^h 45	23 ^h 29	5 ^h 37
S 18	1 46 5	24 ^h 38'48	20 ^h 8	27 ^h 31	10 ^h 39	13 ^h 34	12 ^h 15	16 ^h 18	4 ^h 45	27 ^h 12	3 ^h 58	19 ^h 18	17 ^h 42	23 ^h 36	5 ^h 45
S 19	1 50 1	25 ^h 38'22	4 ^h II28	29 ^h 10	11 ^h 45	14 ^h 18	12 ^h 17	16 ^h 13	4 ^h 45	27 ^h 12	4 ^h 0	19 ^h 12	17 ^h 39	23 ^h 42	5 ^h 54
M20	1 53 58	26 ^h 37'58	18 ^h 22	0 ^h 49	12 ^h 50	15 ^h 2	12 ^h 19	16 ^h 8	4 ^h 45	27 ^h 13	4 ^h 2	19 ^h 7	17 ^h 35	23 ^h 49	6 ^h 2
T 21	1 57 55	27 ^h 37'36	1 ^h 547	2 ^h 27	13 ^h 55	15 ^h 45	12 ^h 22	16 ^h 4	4 ^h 45	27 ^h 13	4 ^h 4	19 ^h 2	17 ^h 32	23 ^h 55	6 ^h 11
W22	2 1 51	28 ^h 37'16	14 ^h 46	4 ^h 4	14 ^h 59	16 ^h 29	12 ^h 24	15 ^h 59	4 ^h 46	27 ^h 14	4 ^h 6	19 ^h 0	17 ^h 29	24 ^h 2	6 ^h 19
T 23	2 5 48	29 ^h 36'59	27 ^h 20	5 ^h 41	16 ^h 4	17 ^h 13	12 ^h 27	15 ^h 55	4 ^h 46	27 ^h 14	4 ^h 8	18 ^h D59	17 ^h 26	24 ^h 9	6 ^h 28
F 24	2 9 44	0 ^h 136'44	9 ^h 135	7 ^h 18	17 ^h 8	17 ^h 57	12 ^h 30	15 ^h 50	4 ^h 47	27 ^h 15	4 ^h 10	18 ^h 59	17 ^h 23	24 ^h 15	6 ^h 36
S 25	2 13 41	1 ^h 36'31	21 ^h 36	8 ^h 54	18 ^h 12	18 ^h 41	12 ^h 33	15 ^h 46	4 ^h 47	27 ^h 15	4 ^h 12	19 ^h 0	17 ^h 20	24 ^h 22	6 ^h 44
S 26	2 17 37	2 ^h 36'21	3 ^h 11	10 ^h 29	19 ^h 16	19 ^h 25	12 ^h 37	15 ^h 41	4 ^h 48	27 ^h 16	4 ^h 14	19 ^h 2	17 ^h 16	24 ^h 29	6 ^h 53
M27	2 21 34	3 ^h 36'12	15 ^h 14	12 ^h 3	20 ^h 19	20 ^h 9	12 ^h 40	15 ^h 37	4 ^h 48	27 ^h 16	4 ^h 16	19 ^h R 3	17 ^h 13	24 ^h 35	7 ^h 1
T 28	2 25 30	4 ^h 36'06	27 ^h 0	13 ^h 38	21 ^h 22	20 ^h 53	12 ^h 44	15 ^h 32	4 ^h 49	27 ^h 17	4 ^h 18	19 ^h 3	17 ^h 10	24 ^h 42	7 ^h 10
W29	2 29 27	5 ^h 36'02	8 ^h 51	15 ^h 11	22 ^h 25	21 ^h 38	12 ^h 48	15 ^h 28	4 ^h 50	27 ^h 17	4 ^h 20	19 ^h 0	17 ^h 7	24 ^h 49	7 ^h 18
T 30	2 33 24	6 ^h 35'59	20 ^h 48	16 ^h 45	23 ^h 28	22 ^h 22	12 ^h 52	15 ^h 24	4 ^h 50	27 ^h 18	4 ^h 22	18 ^h 56	17 ^h 4	24 ^h 55	7 ^h 27
F 31	2 37 20	7 ^h 135'59	2 ^h 155	18 ^h 17	24 ^h 230	23 ^h 27	12 ^h 57	15 ^h Y20	4 ^h 51	27 ^h 19	4 ^h 25	18 ^h 49	17 ^h 1	25 ^h 1	7 ^h 135

SWISS EPHEMERIS for the year 1997

NOVEMBER 1997

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	2 41 17	8♈36'01	15♈12	19♈50	25♈32	23♈51	13♈1	15°R15	4♈52	27♈20	4♈27	18°R41	16♈57	25♈9	7♈44
S 2	2 45 13	9°36'05	27°40	21°22	26°34	24°36	13°6	15°V11	4°53	27°20	4°29	18°R31	16°54	25°15	7°52
M 3	2 49 10	10°36'10	10♈20	22°53	27°36	25°20	13°11	15°7	4°54	27°21	4°31	18°21	16°51	25°22	8°1
T 4	2 53 6	11°36'17	23°13	24°24	28°37	26°5	13°16	15°3	4°55	27°22	4°33	18°12	16°48	25°29	8°9
W 5	2 57 3	12°36'26	6♈17	25°54	29°38	26°50	13°21	14°59	4°56	27°23	4°36	18°5	16°45	25°35	8°17
T 6	3 0 59	13°36'36	19°34	27°25	0♈38	27°35	13°26	14°56	4°57	27°24	4°38	18°0	16°41	25°42	8°26
F 7	3 4 56	14°36'48	3♈5	28°54	1°38	28°20	13°32	14°52	4°58	27°25	4°40	17°57	16°38	25°48	8°34
S 8	3 8 53	15°37'02	16°50	0♈23	2°38	29°5	13°38	14°48	5°0	27°26	4°42	17°D57	16°35	25°55	8°43
S 9	3 12 49	16°37'17	0♈50	1°52	3°37	29°50	13°43	14°44	5°1	27°27	4°45	17°57	16°32	26°2	8°51
M10	3 16 46	17°37'33	15°5	3°20	4°36	0♈35	13°50	14°41	5°2	27°28	4°47	17°R58	16°29	26°8	9°0
T11	3 20 42	18°37'50	29°34	4°48	5°34	1°20	13°56	14°37	5°3	27°29	4°49	17°57	16°26	26°15	9°8
W12	3 24 39	19°38'09	14°V12	6°15	6°32	2°5	14°2	14°34	5°5	27°30	4°51	17°55	16°22	26°22	9°16
T13	3 28 35	20°38'30	28°56	7°42	7°30	2°50	14°9	14°30	5°6	27°31	4°54	17°49	16°19	26°28	9°25
F14	3 32 32	21°38'52	13♈37	9°8	8°27	3°36	14°15	14°27	5°8	27°32	4°56	17°41	16°16	26°35	9°33
S15	3 36 28	22°39'16	28°9	10°34	9°23	4°21	14°22	14°24	5°9	27°33	4°58	17°32	16°13	26°42	9°41
S16	3 40 25	23°39'41	12♈25	11°58	10°19	5°7	14°29	14°21	5°11	27°35	5°1	17°21	16°10	26°48	9°50
M17	3 44 22	24°40'09	26°18	13°22	11°14	5°52	14°37	14°18	5°13	27°36	5°3	17°10	16°7	26°55	9°58
T18	3 48 18	25°40'38	9♈45	14°45	12°9	6°38	14°44	14°15	5°14	27°37	5°5	17°1	16°3	27°2	10°6
W19	3 52 15	26°41'08	22°47	16°7	13°3	7°23	14°52	14°12	5°16	27°38	5°8	16°53	16°0	27°8	10°15
T20	3 56 11	27°41'41	5♈25	17°29	13°57	8°9	14°59	14°9	5°18	27°40	5°10	16°49	15°57	27°15	10°23
F21	4 0 8	28°42'15	17°42	18°48	14°50	8°55	15°7	14°7	5°20	27°41	5°12	16°46	15°54	27°22	10°31
S22	4 4 4	29°42'51	29°44	20°7	15°42	9°40	15°15	14°4	5°22	27°43	5°15	16°D46	15°51	27°28	10°39
S23	4 8 1	0♈43'28	11♈35	21°24	16°33	10°26	15°23	14°2	5°23	27°44	5°17	16°R46	15°47	27°35	10°47
M24	4 11 57	1°44'07	23°23	22°39	17°24	11°12	15°31	13°59	5°25	27°45	5°20	16°46	15°44	27°41	10°55
T25	4 15 54	2°44'48	5♈10	23°52	18°14	11°58	15°40	13°57	5°27	27°47	5°22	16°44	15°41	27°48	11°3
W26	4 19 51	3°45'31	17°4	25°3	19°4	12°44	15°48	13°55	5°30	27°48	5°24	16°40	15°38	27°55	11°12
T27	4 23 47	4°46'15	29°8	26°12	19°52	13°30	15°57	13°52	5°32	27°50	5°27	16°34	15°35	28°1	11°20
F28	4 27 44	5°47'00	11♈24	27°17	20°40	14°16	16°6	13°50	5°34	27°51	5°29	16°24	15°32	28°8	11°28
S29	4 31 40	6°47'47	23°55	28°19	21°27	15°2	16°15	13°49	5°36	27°53	5°31	16°12	15°28	28°15	11°36
S30	4 35 37	7♈48'35	6♈42	29♈17	22♈12	15♈49	16♈24	13°V47	5♈38	27♈55	5♈34	15°R59	15°R25	28°R21	11°R43

Delta T = 62.86 sec.

DECEMBER 1997

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	4 39 33	8♈49'25	19♈44	0♈10	22♈57	16♈35	16♈33	13°R45	5♈40	27♈56	5♈36	15°R45	15°R22	28°R28	11°R51
T 2	4 43 30	9°50'16	2♈59	0°59	23°41	17°21	16°42	13°V43	5°43	27°58	5°38	15°R32	15°19	28°35	11°59
W 3	4 47 26	10°51'07	16°25	1°42	24°24	18°8	16°52	13°42	5°45	28°0	5°41	15°22	15°16	28°41	12°7
T 4	4 51 23	11°52'00	0♈1	2°18	25°6	18°54	17°2	13°40	5°47	28°1	5°43	15°14	15°13	28°48	12°15
F 5	4 55 20	12°52'54	13°45	2°47	25°46	19°40	17°11	13°39	5°50	28°3	5°46	15°9	15°9	28°55	12°22
S 6	4 59 16	13°53'48	27°37	3°8	26°26	20°27	17°21	13°38	5°52	28°5	5°48	15°7	15°6	29°1	12°30
S 7	5 3 13	14°54'43	11♈34	3°20	27°4	21°13	17°31	13°37	5°55	28°6	5°50	15°6	15°3	29°8	12°38
M 8	5 7 9	15°55'39	25°39	3°R22	27°41	22°0	17°41	13°36	5°57	28°8	5°53	15°6	15°0	29°15	12°45
T 9	5 11 6	16°56'35	9°V49	3°13	28°16	22°46	17°51	13°35	6°0	28°10	5°55	15°5	14°57	29°21	12°53
W10	5 15 2	17°57'32	24°3	2°54	28°50	23°33	18°2	13°34	6°2	28°12	5°57	15°2	14°53	29°28	13°0
T11	5 18 59	18°58'29	8♈20	2°23	29°23	24°20	18°12	13°34	6°5	28°14	6°0	14°55	14°50	29°35	13°8
F12	5 22 55	19°59'28	22°34	1°40	29°54	25°6	18°23	13°33	6°8	28°16	6°2	14°46	14°47	29°41	13°15
S13	5 26 52	21°0'27	6♈42	0°47	0♈24	25°53	18°33	13°33	6°10	28°18	6°4	14°35	14°44	29°48	13°23
S14	5 30 49	22°1'27	20°38	29♈44	0°52	26°40	18°44	13°32	6°13	28°19	6°6	14°22	14°41	29°54	13°30
M15	5 34 45	23°2'27	4♈17	28°32	1°18	27°27	18°55	13°32	6°16	28°21	6°9	14°9	14°38	0♈1	13°37
T16	5 38 42	24°3'29	17°36	27°14	1°42	28°13	19°6	13°D32	6°19	28°23	6°11	13°58	14°34	0°8	13°44
W17	5 42 38	25°4'31	0♈33	25°52	2°5	29°0	19°17	13°32	6°21	28°25	6°13	13°48	14°31	0°14	13°51
T18	5 46 35	26°5'34	13°10	24°29	2°25	29°47	19°28	13°32	6°24	28°27	6°16	13°42	14°28	0°21	13°59
F19	5 50 31	27°6'37	25°28	23°8	2°44	0♈34	19°40	13°32	6°27	28°29	6°18	13°38	14°25	0°28	14°6
S20	5 54 28	28°7'42	7♈31	21°51	3°1	1°21	19°51	13°33	6°30	28°31	6°20	13°37	14°22	0°34	14°13
S21	5 58 24	29°8'47	19°23	20°40	3°15	2°8	20°3	13°33	6°33	28°33	6°22	13°D37	14°19	0°41	14°19
M22	6 2 21	0♈8'53	1♈11	19°39	3°28	2°55	20°14	13°34	6°36	28°35	6°24	13°R37	14°15	0°48	14°26
T23	6 6 18	1°11'00	13°0	18°47	3°38	3°42	20°26	13°34	6°39	28°37	6°27	13°36	14°12	0°54	14°33
W24	6 10 14	2°12'07	24°55	18°5	3°46	4°29	20°38	13°35	6°42	28°39	6°29	13°34	14°9	1°1	14°40
T25	6 14 11	3°13'16	7♈12	17°34	3°52	5°16	20°49	13°36	6°45	28°42	6°31	13°29	14°6	1°8	14°46
F26	6 18 7	4°14'24	19°24	17°14	3°55	6°3	21°1	13°37	6°48	28°44	6°33	13°21	14°3	1°14	14°53
S27	6 22 4	5°15'34	2♈4	17°D5	3°R56	6°50	21°13	13°38	6°51	28°46	6°35	13°11	13°59	1°21	14°59
S28	6 26 0	6°16'44	15°5	17°5	3°55	7°37	21°26	13°39	6°54	28°48	6°37	13°0	13°56	1°28	15°6
M29	6 29 57	7°17'54	28°25	17°14	3°51	8°24	21°38	13°41	6°58	28°50	6°40	12°48	13°53	1°34	15°12
T30	6 33 53	8°19'04	12♈3	17°31	3°44	9°12	21°50	13°42	7°1	28°52	6°42	12°36	13°50	1°41	15°19
W31	6 37 50	9♈20'15	25♈56	17♈57	3♈35	9♈59	22♈2	13°V44	7♈4	28♈54	6♈44	12°R27	13°R47	1♈48	15°R25

Delta T = 62.92 sec.

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