

SWISS EPHEMERIS for the year 2002

JANUARY 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	6 41 53	10°23'01	1♁ 7	25♁35	7♁10	16♁53	10°R40	9°R19	22°28	7°27	16♁ 2	27°R10	26♁21	14♁41	2♁10
W 2	6 45 50	11°24'09	15°40	27° 7	8°25	17°37	10°32	9♁16	22°30	7°29	16° 4	27♁ 8	26°18	14°48	2°16
T 3	6 49 46	12°25'18	0♁16	28°39	9°41	18°21	10°24	9°12	22°33	7°31	16° 6	27° 6	26°15	14°54	2°23
F 4	6 53 43	13°26'26	14°47	0° 9	10°56	19° 5	10°16	9° 8	22°36	7°33	16° 9	27° 5	26°12	15° 1	2°29
S 5	6 57 39	14°27'35	29°10	1°37	12°12	19°48	10° 8	9° 5	22°39	7°35	16°11	27° 3	26° 9	15° 8	2°36
S 6	7 1 36	15°28'44	13♁21	3° 4	13°27	20°32	9°59	9° 1	22°42	7°37	16°13	27°D 3	26° 6	15°15	2°42
M 7	7 5 33	16°29'53	27°18	4°28	14°43	21°16	9°51	8°58	22°45	7°39	16°15	27° 3	26° 2	15°21	2°48
T 8	7 9 29	17°31'02	11♁ 1	5°49	15°58	22° 0	9°43	8°55	22°48	7°42	16°17	27° 4	25°59	15°28	2°55
W 9	7 13 26	18°32'12	24°29	7° 7	17°14	22°44	9°35	8°51	22°51	7°44	16°19	27° 6	25°56	15°35	3° 1
T 10	7 17 22	19°33'21	7♁43	8°22	18°29	23°28	9°28	8°48	22°54	7°46	16°21	27° 7	25°53	15°41	3° 7
F 11	7 21 19	20°34'31	20°44	9°31	19°45	24°12	9°20	8°45	22°57	7°48	16°23	27°R 8	25°50	15°48	3°13
S 12	7 25 15	21°35'40	3♁33	10°36	21° 0	24°56	9°12	8°42	23° 0	7°50	16°25	27° 8	25°46	15°55	3°20
S 13	7 29 12	22°36'49	16°11	11°34	22°16	25°39	9° 4	8°39	23° 3	7°52	16°27	27° 7	25°43	16° 2	3°26
M14	7 33 8	23°37'58	28°37	12°25	23°31	26°23	8°57	8°37	23° 6	7°55	16°29	27° 4	25°40	16° 8	3°32
T 15	7 37 5	24°39'07	10°53	13° 9	24°47	27° 7	8°49	8°34	23° 9	7°57	16°31	27° 0	25°37	16°15	3°38
W16	7 41 2	25°40'14	23° 0	13°44	26° 2	27°51	8°41	8°31	23°12	7°59	16°33	26°55	25°34	16°22	3°45
T 17	7 44 58	26°41'22	4♁59	14°10	27°17	28°35	8°34	8°29	23°16	8° 1	16°35	26°49	25°31	16°29	3°51
F 18	7 48 55	27°42'28	16°52	14°25	28°33	29°18	8°27	8°27	23°19	8° 4	16°36	26°44	25°27	16°35	3°57
S 19	7 52 51	28°43'34	28°44	14°R29	29°48	0°Y 2	8°20	8°24	23°22	8° 6	16°38	26°39	25°24	16°42	4° 3
S 20	7 56 48	29°44'39	10°Y36	14°22	1° 4	0°46	8°12	8°22	23°25	8° 8	16°40	26°36	25°21	16°49	4° 9
M21	8 0 44	0°45'43	22°33	14° 3	2°19	1°29	8° 5	8°20	23°28	8°10	16°42	26°34	25°18	16°55	4°15
T 22	8 4 41	1°46'46	4♁41	13°32	3°35	2°13	7°59	8°18	23°32	8°13	16°44	26°D33	25°15	17° 2	4°21
W23	8 8 37	2°47'48	17° 3	12°51	4°50	2°57	7°52	8°16	23°35	8°15	16°45	26°34	25°12	17° 9	4°27
T 24	8 12 34	3°48'49	29°45	11°59	6° 5	3°40	7°45	8°15	23°38	8°17	16°47	26°36	25° 8	17°16	4°33
F 25	8 16 31	4°49'50	12♁51	10°59	7°21	4°24	7°39	8°13	23°42	8°20	16°49	26°37	25° 5	17°22	4°38
S 26	8 20 27	5°50'49	26°23	9°51	8°36	5° 8	7°32	8°12	23°45	8°22	16°51	26°R38	25° 2	17°29	4°44
S 27	8 24 24	6°51'47	10°22	8°39	9°52	5°51	7°26	8°10	23°48	8°24	16°52	26°37	24°59	17°36	4°50
M28	8 28 20	7°52'44	24°48	7°24	11° 7	6°35	7°20	8° 9	23°52	8°26	16°54	26°35	24°56	17°43	4°56
T 29	8 32 17	8°53'41	9♁34	6° 8	12°22	7°18	7°14	8° 8	23°55	8°29	16°56	26°30	24°52	17°49	5° 2
W30	8 36 13	9°54'36	24°34	4°54	13°38	8° 2	7° 8	8° 7	23°58	8°31	16°57	26°23	24°49	17°56	5° 7
T 31	8 40 10	10°55'30	9♁38	3°44	14°53	8°Y45	7°3	8♁ 6	24° 2	8°33	16°59	26♁16	24♁46	18° 3	5°13

Delta T = 64.30 sec.

FEBRUARY 2002

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	8 44 7	11°56'24	24♁36	2°R39	16° 8	9°Y29	6°R57	8°R 5	24° 5	8°35	17° 0	26°R10	24♁43	18° 9	5°18
S 2	8 48 3	12°57'16	9♁21	1°40	17°23	10°12	6°52	8♁ 4	24° 9	8°38	17° 2	26♁ 4	24°40	18°16	5°24
S 3	8 52 0	13°58'08	23°46	0°50	18°39	10°55	6°47	8° 3	24°12	8°40	17° 3	26° 0	24°37	18°23	5°29
M 4	8 55 56	14°58'59	7♁48	0° 7	19°54	11°39	6°42	8° 3	24°16	8°42	17° 5	25°58	24°33	18°30	5°35
T 5	8 59 53	15°59'49	21°27	29♁32	21° 9	12°22	6°37	8° 2	24°19	8°45	17° 6	25°D58	24°30	18°36	5°40
W 6	9 3 49	17° 0'39	4♁45	29° 7	22°25	13° 5	6°32	8° 2	24°22	8°47	17° 7	25°59	24°27	18°43	5°46
T 7	9 7 46	18° 1'27	17°44	28°49	23°40	13°49	6°28	8° 2	24°26	8°49	17° 9	26° 0	24°24	18°50	5°51
F 8	9 11 42	19° 2'15	0♁27	28°40	24°55	14°32	6°24	8°D 2	24°29	8°51	17°10	26°R 0	24°21	18°56	5°56
S 9	9 15 39	20° 3'01	12°57	28°D38	26°10	15°15	6°19	8° 2	24°33	8°54	17°11	25°58	24°18	19° 3	6° 1
S 10	9 19 36	21° 3'47	25°17	28°44	27°26	15°58	6°15	8° 2	24°36	8°56	17°13	25°54	24°14	19°10	6° 6
M11	9 23 32	22° 4'31	7°29	28°56	28°41	16°42	6°12	8° 2	24°40	8°58	17°14	25°48	24°11	19°17	6°12
T 12	9 27 29	23° 5'14	19°34	29°15	29°56	17°25	6° 8	8° 3	24°43	9° 0	17°15	25°38	24° 8	19°23	6°17
W13	9 31 25	24° 5'55	1♁33	29°39	1♁11	18° 8	6° 5	8° 3	24°47	9° 3	17°16	25°27	24° 5	19°30	6°22
T 14	9 35 22	25° 6'35	13°28	0° 9	2°26	18°51	6° 2	8° 4	24°50	9° 5	17°18	25°15	24° 2	19°37	6°26
F 15	9 39 18	26° 7'14	25°21	0°44	3°41	19°34	5°59	8° 5	24°54	9° 7	17°19	25° 3	23°58	19°44	6°31
S 16	9 43 15	27° 7'51	7°Y12	1°23	4°57	20°17	5°56	8° 5	24°57	9° 9	17°20	24°52	23°55	19°50	6°36
S 17	9 47 11	28° 8'26	19° 4	2° 6	6°12	21° 0	5°53	8° 6	25° 1	9°11	17°21	24°43	23°52	19°57	6°41
M18	9 51 8	29° 9'00	1♁ 1	2°54	7°27	21°43	5°51	8° 7	25° 4	9°13	17°22	24°36	23°49	20° 4	6°46
T 19	9 55 4	0♁ 9'32	13° 6	3°45	8°42	22°26	5°49	8° 9	25° 8	9°16	17°23	24°32	23°46	20°10	6°50
W20	9 59 1	1°10'02	25°24	4°39	9°57	23° 9	5°47	8°10	25°11	9°18	17°24	24°31	23°43	20°17	6°55
T 21	10 2 58	2°10'30	8♁ 0	5°36	11°12	23°52	5°45	8°11	25°14	9°20	17°25	24°D31	23°39	20°24	6°59
F 22	10 6 54	3°10'56	20°58	6°36	12°27	24°34	5°43	8°13	25°18	9°22	17°26	24°R31	23°36	20°31	7° 4
S 23	10 10 51	4°11'21	4♁22	7°38	13°42	25°17	5°42	8°15	25°21	9°24	17°27	24°31	23°33	20°37	7° 8
S 24	10 14 47	5°11'44	18°17	8°43	14°57	26° 0	5°41	8°16	25°25	9°26	17°27	24°29	23°30	20°44	7°12
M25	10 18 44	6°12'04	2♁40	9°50	16°12	26°43	5°40	8°18	25°28	9°28	17°28	24°24	23°27	20°51	7°17
T 26	10 22 40	7°12'23	17°31	11° 0	17°27	27°25	5°39	8°20	25°32	9°30	17°29	24°17	23°24	20°57	7°21
W27	10 26 37	8°12'40	2♁41	12°11	18°42	28° 8	5°38	8°22	25°35	9°33	17°30	24° 7	23°20	21° 4	7°25
T 28	10 30 33	9♁12'55	18♁ 1	13°24	19♁56	28°Y51	5°38	8♁24	25°38	9°35	17°31	23♁56	23♁17	21♁11	7°29

Delta T = 64.29 sec.

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SWISS EPHEMERIS for the year 2002

MARCH 2002

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	10 34 30	10♋13'09	3♌19	14♍39	21♎11	29♏33	5°R37	8♐27	25♑42	9♒37	17♓31	23°R45	23♐14	21♑18	7♒33
S 2	10 38 27	11°13'20	18°24	15°56	22°26	0♓16	5°D37	8°29	25°45	9°39	17°32	23♐36	23°11	21°24	7°37
S 3	10 42 23	12°13'31	3♌ 7	17°14	23°41	0°58	5♌38	8°31	25°49	9°41	17°32	23°29	23° 8	21°31	7°40
M 4	10 46 20	13°13'39	17°23	18°34	24°56	1°41	5°38	8°34	25°52	9°43	17°33	23°24	23° 4	21°38	7°44
T 5	10 50 16	14°13'47	1♌11	19°55	26°11	2°23	5°39	8°37	25°55	9°45	17°34	23°22	23° 1	21°45	7°48
W 6	10 54 13	15°13'52	14°31	21°18	27°25	3° 6	5°39	8°39	25°59	9°47	17°34	23°D22	22°58	21°51	7°52
T 7	10 58 9	16°13'57	27°27	22°42	28°40	3°48	5°40	8°42	26° 2	9°48	17°35	23°R22	22°55	21°58	7°55
F 8	11 2 6	17°13'59	10♌ 4	24° 7	29°55	4°30	5°41	8°45	26° 5	9°50	17°35	23°21	22°52	22° 5	7°58
S 9	11 6 2	18°14'00	22°25	25°34	1♏ 9	5°13	5°43	8°48	26° 9	9°52	17°35	23°18	22°49	22°11	8° 2
S 10	11 9 59	19°14'00	4♍34	27° 2	2°24	5°55	5°44	8°52	26°12	9°54	17°36	23°13	22°45	22°18	8° 5
M11	11 13 56	20°13'57	16°36	28°31	3°39	6°37	5°46	8°55	26°15	9°56	17°36	23° 4	22°42	22°25	8° 8
T 12	11 17 52	21°13'53	28°32	0♋ 2	4°53	7°19	5°48	8°58	26°18	9°58	17°36	22°53	22°39	22°32	8°12
W13	11 21 49	22°13'47	10♋26	1°33	6° 8	8° 1	5°50	9° 2	26°21	10° 0	17°37	22°39	22°36	22°38	8°15
T 14	11 25 45	23°13'39	22°18	3° 6	7°22	8°44	5°52	9° 5	26°25	10° 1	17°37	22°24	22°33	22°45	8°18
F 15	11 29 42	24°13'29	4♏10	4°41	8°37	9°26	5°55	9° 9	26°28	10° 3	17°37	22° 9	22°29	22°52	8°21
S 16	11 33 38	25°13'17	16° 4	6°16	9°52	10° 8	5°58	9°13	26°31	10° 5	17°37	21°56	22°26	22°58	8°23
S 17	11 37 35	26°13'03	28° 0	7°53	11° 6	10°50	6° 0	9°17	26°34	10° 7	17°38	21°44	22°23	23° 5	8°26
M18	11 41 31	27°12'46	10♌ 1	9°31	12°20	11°32	6° 4	9°21	26°37	10° 8	17°38	21°36	22°20	23°12	8°29
T 19	11 45 28	28°12'28	22° 9	11°10	13°35	12°14	6° 7	9°25	26°40	10°10	17°38	21°30	22°17	23°19	8°31
W20	11 49 25	29°12'08	4♐29	12°50	14°49	12°56	6°10	9°29	26°43	10°12	17°38	21°27	22°14	23°25	8°34
T 21	11 53 21	0♏11'45	17° 3	14°32	16° 4	13°37	6°14	9°33	26°46	10°13	17°R38	21°D26	22°10	23°32	8°36
F 22	11 57 18	1°11'20	29°57	16°15	17°18	14°19	6°18	9°38	26°49	10°15	17°38	21°R26	22° 7	23°39	8°39
S 23	12 1 14	2°10'53	13♌14	17°59	18°32	15° 1	6°22	9°42	26°52	10°17	17°38	21°26	22° 4	23°46	8°41
S 24	12 5 11	3°10'23	26°57	19°44	19°47	15°43	6°26	9°46	26°55	10°18	17°38	21°24	22° 1	23°52	8°43
M25	12 9 7	4° 9'51	11♌10	21°31	21° 1	16°25	6°30	9°51	26°58	10°20	17°37	21°20	21°58	23°59	8°45
T 26	12 13 4	5° 9'17	25°49	23°19	22°15	17° 6	6°34	9°56	27° 1	10°21	17°37	21°13	21°55	24° 6	8°47
W27	12 17 0	6° 8'41	10♐51	25° 8	23°29	17°48	6°39	10° 0	27° 4	10°23	17°37	21° 4	21°51	24°12	8°49
T 28	12 20 57	7° 8'02	26° 8	26°59	24°43	18°29	6°44	10° 5	27° 7	10°24	17°37	20°54	21°48	24°19	8°51
F 29	12 24 54	8° 7'21	11♌27	28°51	25°57	19°11	6°49	10°10	27°10	10°26	17°37	20°43	21°45	24°26	8°53
S 30	12 28 50	9° 6'38	26°39	0♏44	27°11	19°52	6°54	10°15	27°13	10°27	17°36	20°34	21°42	24°33	8°54
S 31	12 32 47	10♏ 5'53	11♌32	2♏38	28♏25	20♓34	6♌59	10♐20	27♑15	10♒28	17♓36	20♐26	21♐39	24♑39	8♒56

Delta T = 64.28 sec.

APRIL 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	12 36 43	11♏ 5'07	25♌59	4♏34	29♏39	21♓15	7♌ 5	10♐25	27♑18	10♒30	17°R36	20°R22	21♐35	24♑46	8♒57
T 2	12 40 40	12° 4'18	9♌58	6°32	0♓53	21°57	7°11	10°31	27°21	10°31	17°35	20♐19	21°32	24°53	8°59
W 3	12 44 36	13° 3'28	23°27	8°30	2° 7	22°38	7°16	10°36	27°24	10°32	17°35	20°D19	21°29	25° 0	9° 0
T 4	12 48 33	14° 2'36	6♌29	10°30	3°21	23°20	7°22	10°41	27°26	10°34	17°34	20°20	21°26	25° 6	9° 1
F 5	12 52 29	15° 1'43	19° 8	12°31	4°35	24° 1	7°28	10°47	27°29	10°35	17°34	20°R20	21°23	25°13	9° 2
S 6	12 56 26	16° 0'47	1♌28	14°33	5°49	24°42	7°35	10°52	27°31	10°36	17°33	20°18	21°20	25°20	9° 3
S 7	13 0 23	16°59'50	13°35	16°36	7° 3	25°23	7°41	10°58	27°34	10°37	17°33	20°15	21°16	25°26	9° 4
M 8	13 4 19	17°58'51	25°33	18°40	8°17	26° 4	7°48	11° 3	27°36	10°38	17°32	20° 9	21°13	25°33	9° 5
T 9	13 8 16	18°57'50	7♋26	20°44	9°30	26°46	7°54	11° 9	27°39	10°39	17°32	20° 1	21°10	25°40	9° 6
W10	13 12 12	19°56'48	19°17	22°50	10°44	27°27	8° 1	11°15	27°41	10°41	17°31	19°50	21° 7	25°47	9° 7
T 11	13 16 9	20°55'43	1♏ 9	24°55	11°58	28° 8	8° 8	11°21	27°44	10°42	17°30	19°39	21° 4	25°53	9° 7
F 12	13 20 5	21°54'36	13° 3	27° 1	13°11	28°49	8°15	11°27	27°46	10°43	17°30	19°28	21° 1	26° 0	9° 8
S 13	13 24 2	22°53'28	25° 2	29° 7	14°25	29°30	8°23	11°33	27°48	10°44	17°29	19°17	20°57	26° 7	9° 8
S 14	13 27 58	23°52'17	7♌ 5	1♌12	15°39	0♐11	8°30	11°39	27°51	10°45	17°28	19° 8	20°54	26°13	9° 8
M15	13 31 55	24°51'05	19°16	3°17	16°52	0°52	8°38	11°45	27°53	10°46	17°27	19° 2	20°51	26°20	9° 9
T 16	13 35 51	25°49'50	1♐35	5°20	18° 6	1°33	8°45	11°51	27°55	10°46	17°26	18°58	20°48	26°27	9° 9
W17	13 39 48	26°48'34	14° 4	7°23	19°19	2°14	8°53	11°57	27°57	10°47	17°26	18°D56	20°45	26°34	9°R 9
T 18	13 43 45	27°47'15	26°47	9°23	20°33	2°55	9° 1	12° 4	28° 0	10°48	17°25	18°56	20°41	26°40	9° 9
F 19	13 47 41	28°45'54	9♌45	11°22	21°46	3°35	9° 9	12°10	28° 2	10°49	17°24	18°57	20°38	26°47	9° 9
S 20	13 51 38	29°44'31	23° 2	13°19	22°59	4°16	9°17	12°16	28° 4	10°50	17°23	18°58	20°35	26°54	9° 9
S 21	13 55 34	0♓43'06	6♌40	15°12	24°13	4°57	9°26	12°23	28° 6	10°51	17°22	18°R58	20°32	27° 1	9° 8
M22	13 59 31	1°41'38	20°42	17° 3	25°26	5°38	9°34	12°29	28° 8	10°51	17°21	18°57	20°29	27° 7	9° 8
T 23	14 3 27	2°40'08	5♐ 6	18°51	26°39	6°18	9°43	12°36	28°10	10°52	17°20	18°53	20°26	27°14	9° 8
W24	14 7 24	3°38'36	19°49	20°35	27°52	6°59	9°52	12°43	28°12	10°53	17°19	18°48	20°22	27°21	9° 7
T 25	14 11 20	4°37'02	4♌47	22°15	29° 5	7°39	10° 0	12°49	28°13	10°53	17°18	18°42	20°19	27°27	9° 6
F 26	14 15 17	5°35'26	19°50	23°52	0♐18	8°20	10° 9	12°56	28°15	10°54	17°17	18°35	20°16	27°34	9° 6
S 27	14 19 14	6°33'48	4♌49	25°24	1°31	9° 0	10°18	13° 3	28°17	10°54	17°16	18°29	20°13	27°41	9° 5
S 28	14 23 10	7°32'08	19°36	26°53	2°44	9°41	10°27	13°10	28°19	10°55	17°15	18°25	20°10	27°48	9° 4
M29	14 27 7	8°30'26	4♌ 3	28°17	3°57	10°21	10°37	13°16	28°20	10°55	17°14	18°22	20° 6	27°54	9° 3
T 30	14 31 3	9♌28'43	18♌ 4	29♌37	5♐10	11♐ 2	10♑46	13♐23	28♑22	10♒56	17♓12	18°D21	20♐ 3	28♑ 1	9♒ 2

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SWISS EPHEMERIS for the year 2002

MAY 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	14 35 0	10♌26'58	1♃39	0♏52	6♏23	11♏42	10♌56	13♏30	28♌24	10♌56	17°R11	18♏22	20♏0	28♏8	9°R 1								
T 2	14 38 56	11°25'12	14°47	2° 3	7°36	12°23	11° 5	13°37	28°25	10°57	17♌10	18°23	19°57	28°14	9♃0								
F 3	14 42 53	12°23'24	27°32	3° 9	8°49	13° 3	11°15	13°44	28°27	10°57	17° 9	18°25	19°54	28°21	8°58								
S 4	14 46 49	13°21'35	9♌57	4°10	10° 2	13°43	11°25	13°51	28°28	10°57	17° 8	18°R26	19°51	28°28	8°57								
S 5	14 50 46	14°19'44	22° 7	5° 7	11°14	14°23	11°35	13°58	28°30	10°58	17° 6	18°25	19°47	28°35	8°55								
M 6	14 54 43	15°17'52	4♌6	5°58	12°27	15° 4	11°45	14° 6	28°31	10°58	17° 5	18°24	19°44	28°41	8°54								
T 7	14 58 39	16°15'58	15°59	6°45	13°40	15°44	11°55	14°13	28°32	10°58	17° 4	18°21	19°41	28°48	8°52								
W 8	15 2 36	17°14'03	27°50	7°27	14°52	16°24	12° 5	14°20	28°34	10°58	17° 2	18°16	19°38	28°55	8°51								
T 9	15 6 32	18°12'07	9♏44	8° 4	16° 5	17° 4	12°15	14°27	28°35	10°59	17° 1	18°11	19°35	29° 2	8°49								
F 10	15 10 29	19°10'09	21°41	8°35	17°17	17°44	12°26	14°35	28°36	10°59	17° 0	18° 6	19°32	29° 8	8°47								
S 11	15 14 25	20° 8'09	3♌46	9° 2	18°30	18°24	12°36	14°42	28°37	10°59	16°58	18° 1	19°28	29°15	8°45								
S 12	15 18 22	21° 6'08	16° 0	9°24	19°42	19° 4	12°47	14°49	28°38	10°59	16°57	17°57	19°25	29°22	8°43								
M 13	15 22 18	22° 4'06	28°24	9°40	20°54	19°44	12°57	14°57	28°39	10°59	16°55	17°55	19°22	29°28	8°41								
T 14	15 26 15	23° 2'02	10♏59	9°51	22° 7	20°24	13° 8	15° 4	28°40	10°R59	16°54	17°54	19°19	29°35	8°39								
W 15	15 30 12	23°59'56	23°46	9°58	23°19	21° 4	13°19	15°12	28°41	10°59	16°53	17°D53	19°16	29°42	8°37								
T 16	15 34 8	24°57'49	6♌46	9°R59	24°31	21°44	13°30	15°19	28°42	10°59	16°51	17°54	19°12	29°49	8°34								
F 17	15 38 5	25°55'41	20° 0	9°56	25°43	22°24	13°41	15°26	28°43	10°59	16°50	17°56	19° 9	29°55	8°32								
S 18	15 42 1	26°53'30	3♏28	9°48	26°56	23° 4	13°52	15°34	28°44	10°59	16°48	17°57	19° 6	0°V 2	8°30								
S 19	15 45 58	27°51'18	17°11	9°35	28° 8	23°44	14° 3	15°42	28°45	10°58	16°47	17°58	19° 3	0° 9	8°27								
M 20	15 49 54	28°49'04	1♏10	9°19	29°20	24°23	14°14	15°49	28°45	10°58	16°45	17°R58	19° 0	0°15	8°25								
T 21	15 53 51	29°46'49	15°23	8°58	0♌32	25° 3	14°26	15°57	28°46	10°58	16°44	17°58	18°57	0°22	8°22								
W 22	15 57 47	0♏44'31	29°49	8°34	1°44	25°43	14°37	16° 4	28°47	10°58	16°42	17°56	18°53	0°29	8°19								
T 23	16 1 44	1°42'12	14♌23	8° 7	2°55	26°23	14°48	16°12	28°47	10°57	16°41	17°55	18°50	0°36	8°17								
F 24	16 5 41	2°39'52	29° 0	7°38	4° 7	27° 2	15° 0	16°20	28°48	10°57	16°39	17°53	18°47	0°42	8°14								
S 25	16 9 37	3°37'30	13♏35	7° 7	5°19	27°42	15°12	16°27	28°48	10°57	16°38	17°51	18°44	0°49	8°11								
S 26	16 13 34	4°35'07	28° 1	6°34	6°31	28°22	15°23	16°35	28°49	10°56	16°36	17°50	18°41	0°56	8° 8								
M 27	16 17 30	5°32'43	12♌12	6° 0	7°42	29° 1	15°35	16°43	28°49	10°56	16°34	17°D49	18°38	1° 3	8° 5								
T 28	16 21 27	6°30'17	26° 5	5°26	8°54	29°41	15°47	16°50	28°49	10°55	16°33	17°49	18°34	1° 9	8° 2								
W 29	16 25 23	7°27'51	9♃35	4°52	10° 5	0♌20	15°59	16°58	28°50	10°55	16°31	17°50	18°31	1°16	7°59								
T 30	16 29 20	8°25'23	22°44	4°19	11°17	1° 0	16°10	17° 6	28°50	10°55	16°30	17°51	18°28	1°23	7°56								
F 31	16 33 16	9♏22'55	5♌31	3♏48	12♌28	1♌39	16♌22	17♏14	28°50	10°55	16°28	17♏51	18♏25	1°V29	7♃53								

Delta T = 64.28 sec.

JUNE 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	16 37 13	10♏20'26	17♌59	3°R19	13♌39	2♌19	16♌34	17♏21	28°50	10°R53	16°R27	17♏52	18♏22	1°V36	7°R49								
S 2	16 41 10	11°17'55	0♌11	2♏52	14°51	2°58	16°47	17°29	28°50	10°55	16♌25	17°53	18°18	1°43	7♃46								
M 3	16 45 6	12°15'24	12°13	2°28	16° 2	3°37	16°59	17°37	28°R50	10°52	16°23	17°R53	18°15	1°50	7°43								
T 4	16 49 3	13°12'53	24° 8	2° 7	17°13	4°17	17°11	17°45	28°50	10°52	16°22	17°53	18°12	1°56	7°39								
W 5	16 52 59	14°10'20	6°V 1	1°50	18°24	4°56	17°23	17°52	28°50	10°51	16°20	17°52	18° 9	2° 3	7°36								
T 6	16 56 56	15° 7'47	17°56	1°36	19°35	5°36	17°35	18° 0	28°50	10°50	16°18	17°52	18° 6	2°10	7°32								
F 7	17 0 52	16° 5'14	29°57	1°27	20°46	6°15	17°48	18° 8	28°50	10°49	16°17	17°52	18° 3	2°16	7°29								
S 8	17 4 49	17° 2'39	12♌8	1°22	21°57	6°54	18° 0	18°16	28°50	10°49	16°15	17°52	17°59	2°23	7°25								
S 9	17 8 45	18° 0'04	24°31	1°D22	23° 8	7°33	18°13	18°24	28°49	10°48	16°14	17°D52	17°56	2°30	7°22								
M 10	17 12 42	18°57'28	7♏9	1°25	24°18	8°13	18°25	18°31	28°49	10°47	16°12	17°52	17°53	2°37	7°18								
T 11	17 16 39	19°54'52	20° 2	1°34	25°29	8°52	18°38	18°39	28°49	10°46	16°10	17°R52	17°50	2°43	7°15								
W 12	17 20 35	20°52'15	3♌10	1°47	26°40	9°31	18°50	18°47	28°48	10°45	16° 9	17°52	17°47	2°50	7°11								
T 13	17 24 32	21°49'37	16°34	2° 4	27°50	10°10	19° 3	18°55	28°48	10°44	16° 7	17°51	17°44	2°57	7° 7								
F 14	17 28 28	22°46'58	0♏12	2°26	29° 1	10°49	19°16	19° 3	28°47	10°43	16° 6	17°51	17°40	3° 3	7° 3								
S 15	17 32 25	23°44'18	14° 1	2°53	0♏11	11°28	19°28	19°10	28°47	10°42	16° 4	17°50	17°37	3°10	7° 0								
S 16	17 36 21	24°41'38	28° 1	3°23	1°21	12° 7	19°41	19°18	28°46	10°41	16° 2	17°50	17°34	3°17	6°56								
M 17	17 40 18	25°38'56	12♏8	3°58	2°31	12°47	19°54	19°26	28°45	10°40	16° 1	17°49	17°31	3°24	6°52								
T 18	17 44 15	26°36'14	26°20	4°38	3°42	13°26	20° 7	19°34	28°45	10°39	15°59	17°D49	17°28	3°30	6°48								
W 19	17 48 11	27°33'30	10♌35	5°21	4°52	14° 5	20°20	19°41	28°44	10°38	15°58	17°49	17°24	3°37	6°44								
T 20	17 52 8	28°30'46	24°50	6° 9	6° 2	14°44	20°33	19°49	28°43	10°37	15°56	17°50	17°21	3°44	6°41								
F 21	17 56 4	29°28'01	9♏3	7° 0	7°11	15°23	20°45	19°57	28°42	10°36	15°55	17°51	17°18	3°51	6°37								
S 22	18 0 1	0♌25'16	23°10	7°56	8°21	16° 2	20°58	20° 5	28°42	10°35	15°53	17°52	17°15	3°57	6°33								
S 23	18 3 57	1°22'30	7♌9	8°56	9°31	16°40	21°11	20°12	28°41	10°34	15°52	17°52	17°12	4° 4	6°29								
M 24	18 7 54	2°19'43	20°56	9°59	10°41	17°19	21°24	20°20	28°40	10°33	15°50	17°R52	17° 9	4°11	6°25								
T 25	18 11 50	3°16'56	4♃29	11° 6	11°50	17°58	21°38	20°28	28°39	10°32	15°48	17°52	17° 5	4°17	6°21								
W 26	18 15 47	4°14'09	17°45	12°17	12°59	18°37	21°51	20°35	28°38	10°30	15°47	17°51	17° 2	4°24	6°17								
T 27	18 19 44	5°11'22	0♌45	13°32	14° 9	19°16	22° 4	20°43	28°37	10°29	15°45	17°48	16°59	4°31	6°13								
F 28	18 23 40	6° 8'34	13°28	14°50	15°18	19°55	22°17	20°51	28°35	10°28	15°44	17°46	16°56	4°38	6°10								
S 29	18 27 37	7° 5'46	25°54	16°12	16°27	20°34	22°30	20°58	28°34	10°27	15°43	17°43	16°53	4°44	6° 6								
S 30	18 31 33	8♌2'58	8♌7	17♏37	17♏36	21♌12	22♌43	21♏6	28°33	10°25	15°41	17♏41	16♏50	4°V51	6♃2								

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SWISS EPHEMERIS for the year 2002

JULY 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	18 35 30	9°01'11"	20°09'09"	19°02'06"	18°04'45"	21°05'51"	22°05'56"	21°02'13"	28°03'32"	10°02'24"	15°04'40"	17°03'38"	16°02'46"	4°05'58"	5°05'58"
T 2	18 39 26	9°57'23"	2°09'04"	20°39'19"	19°54'19"	22°30'22"	23°10'23"	21°21'21"	28°03'30"	10°02'23"	15°04'38"	17°03'37"	16°04'43"	5°04'58"	5°05'54"
W 3	18 43 23	10°54'35"	13°57'13"	22°15'22"	21°03'21"	23°09'23"	23°23'23"	21°29'21"	28°29'28"	10°02'21"	15°03'37"	17°03'37"	16°40'16"	5°11'58"	5°50'50"
T 4	18 47 19	11°51'48"	25°52'23"	23°54'22"	22°11'23"	23°47'23"	23°36'23"	21°36'21"	28°28'28"	10°02'20"	15°03'35"	17°03'38"	16°37'16"	5°18'58"	5°46'46"
F 5	18 51 16	12°49'01"	7°08'54"	25°37'23"	23°20'24"	24°26'23"	23°49'24"	21°44'21"	28°26'28"	10°02'19"	15°03'34"	17°03'39"	16°34'16"	5°25'58"	5°42'42"
S 6	18 55 13	13°46'14"	20°08'27"	27°22'24"	25°08'24"	25°05'25"	24°03'24"	21°51'21"	28°25'28"	10°02'17"	15°03'33"	17°04'41"	16°30'16"	5°31'58"	5°39'39"
S 7	18 59 09	14°43'28"	2°02'37"	29°11'25"	25°36'25"	25°43'25"	24°16'24"	21°58'21"	28°23'28"	10°02'16"	15°03'31"	17°04'42"	16°27'16"	5°38'58"	5°35'35"
M 8	19 03 06	15°40'41"	15°25'15"	1°03'26"	26°44'26"	26°22'24"	24°29'22"	22°06'28"	28°22'28"	10°02'14"	15°03'30"	17°04'43"	16°24'16"	5°45'58"	5°31'31"
T 9	19 07 02	16°37'55"	28°33'28"	2°57'27"	27°52'27"	27°01'27"	24°43'22"	22°13'28"	28°20'28"	10°02'13"	15°03'29"	17°04'43"	16°21'16"	5°51'58"	5°27'27"
W10	19 10 59	17°35'10"	12°02'45"	4°54'29"	29°00'27"	27°39'24"	24°56'22"	22°21'28"	28°19'28"	10°02'11"	15°03'27"	17°04'41"	16°18'16"	5°58'58"	5°23'23"
T 11	19 14 55	18°32'24"	25°51'06"	6°54'08"	0°08'28"	28°18'28"	25°09'22"	22°28'28"	28°17'28"	10°02'10"	15°03'26"	17°03'38"	16°15'16"	6°05'58"	5°20'20"
F 12	19 18 52	19°29'39"	9°05'55"	8°56'16"	1°16'28"	28°57'25"	25°23'22"	22°35'28"	28°15'10"	10°02'08"	15°03'25"	17°03'33"	16°11'16"	6°12'58"	5°16'16"
S 13	19 22 48	20°26'53"	24°12'10"	10°59'29"	2°23'29"	29°35'25"	25°36'22"	22°42'28"	28°14'10"	10°02'07"	15°03'23"	17°02'29"	16°08'16"	6°18'58"	5°12'12"
S 14	19 26 45	21°24'08"	8°03'36"	13°04'33"	3°31'00"	0°14'25"	25°50'22"	22°50'28"	28°12'10"	10°02'05"	15°03'22"	17°02'24"	16°05'16"	6°25'58"	5°09'09"
M15	19 30 42	22°21'23"	23°01'15"	15°11'43"	4°38'00"	0°52'26"	26°03'22"	22°57'28"	28°10'10"	10°02'04"	15°03'21"	17°02'20"	16°02'16"	6°32'58"	5°05'05"
T 16	19 34 38	23°18'37"	7°02'23"	17°18'54"	5°45'13"	1°31'26"	26°16'23"	23°04'28"	28°08'10"	10°02'02"	15°03'20"	17°01'18"	15°59'16"	6°38'58"	5°01'01"
W17	19 38 35	24°15'52"	21°38'19"	19°26'6"	6°52'29"	2°09'26"	26°30'23"	23°11'28"	28°07'10"	10°02'01"	15°03'19"	17°01'17"	15°56'16"	6°45'58"	4°58'58"
T 18	19 42 31	25°13'07"	5°04'44"	21°35'7"	7°59'24"	2°48'26"	26°43'23"	23°18'28"	28°05'9"	10°02'00"	15°03'18"	17°01'17"	15°52'16"	6°52'58"	4°54'54"
F 19	19 46 28	26°10'22"	19°39'23"	23°43'9"	9°05'32"	3°26'26"	26°57'23"	23°25'28"	28°03'9"	10°01'58"	15°03'16"	17°01'18"	15°49'16"	6°59'58"	4°51'51"
S 20	19 50 24	27°07'37"	3°07'24"	25°52'10"	10°12'44"	4°05'27"	27°10'23"	23°32'23"	28°01'9"	10°01'56"	15°03'15"	17°01'19"	15°46'16"	7°05'58"	4°47'47"
S 21	19 54 21	28°04'53"	16°57'28"	0°07'11"	11°18'44"	4°43'27"	27°23'23"	23°39'27"	27°59'9"	10°01'55"	15°03'14"	17°01'20"	15°43'16"	7°12'58"	4°44'44"
M22	19 58 17	29°02'08"	0°03'19"	0°07'12"	12°24'52"	5°22'27"	27°37'23"	23°46'27"	27°57'9"	10°01'53"	15°03'13"	17°01'19"	15°40'16"	7°19'58"	4°40'40"
T 23	20 02 14	29°59'25"	13°29'29"	2°13'13"	13°30'6"	6°00'27"	27°50'25"	23°53'27"	27°55'9"	10°01'51"	15°03'12"	17°01'17"	15°36'16"	7°25'58"	4°37'37"
W24	20 06 11	0°05'56'	41'26"	4°19'14"	14°36'6"	6°39'28"	28°04'23"	23°59'27"	27°53'9"	10°01'50"	15°03'11"	17°01'12"	15°33'16"	7°32'58"	4°34'34"
T 25	20 10 07	1°53'58"	9°01'43"	6°23'15"	15°42'7"	7°17'28"	28°17'24"	6'27"	27°51'9"	10°01'48"	15°03'10"	17°01'06"	15°30'16"	7°39'58"	4°31'31"
F 26	20 14 04	2°51'16"	21°41'8"	8°26'16"	16°47'7"	7°56'28"	28°30'24"	13'27"	27°49'9"	10°01'46"	15°03'09"	16°58'15"	15°27'16"	7°46'58"	4°27'27"
S 27	20 18 00	3°48'35"	4°03'38"	10°27'17"	17°52'8"	8°34'28"	28°44'24"	19'27"	27°47'9"	10°01'45"	15°03'08"	16°49'15"	15°24'16"	7°52'58"	4°24'24"
S 28	20 21 57	4°45'54"	16°12'12"	12°28'18"	18°57'9"	9°12'28"	28°57'24"	26'27"	27°44'9"	10°01'43"	15°03'07"	16°41'15"	15°21'16"	7°59'58"	4°21'21"
M29	20 25 53	5°43'14"	28°11'14"	14°26'20"	20°02'9"	9°51'29"	29°10'24"	33'27"	27°42'9"	10°01'42"	15°03'06"	16°34'15"	15°17'16"	8°06'58"	4°18'18"
T 30	20 29 50	6°40'35"	10°05'10"	16°23'21"	21°07'10"	10°29'29"	29°24'24"	39'27"	27°40'9"	10°01'40"	15°03'05"	16°29'15"	15°14'16"	8°12'58"	4°15'15"
W31	20 33 46	7°03'58"	21°05'21"	18°09'22"	22°11'11"	11°07'29"	29°37'24"	46'27"	27°38'9"	10°01'38"	15°03'04"	16°22'15"	15°11'16"	8°19'58"	4°12'12"

Delta T = 64.29 sec.

AUGUST 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 37 43	8°03'52"	3°08'50"	20°02'12"	23°08'15"	11°04'46"	29°05'50"	24°02'52"	27°03'36"	9°02'37"	15°04'15"	16°02'24"	15°02'08"	8°05'26"	4°08'10"
F 2	20 41 40	9°32'45"	15°51'15"	22°05'24"	24°19'12"	12°24'00"	0°04'24"	24°58'27"	27°03'34"	9°02'35"	15°04'13"	16°02'24"	15°05'05"	8°03'33"	4°07'07"
S 3	20 45 36	10°30'11"	28°03'23"	23°55'25"	25°23'13"	13°02'00"	0°17'25"	25°05'27"	27°31'09"	9°02'33"	15°04'11"	16°02'25"	15°02'02"	8°03'39"	4°04'04"
S 4	20 49 33	11°27'37"	10°02'33"	25°44'26"	26°27'13"	13°41'00"	0°30'25"	25°11'27"	27°29'09"	9°02'32"	15°04'10"	16°02'26"	14°58'08"	8°04'46"	4°01'01"
M 5	20 53 29	12°25'05"	23°24'27"	27°31'27"	27°30'14"	14°19'00"	0°43'25"	25°17'27"	27°27'09"	9°02'30"	15°04'09"	16°02'26"	14°55'08"	8°05'53"	3°59'59"
T 6	20 57 26	13°22'35"	6°04'29"	29°17'28"	28°33'14"	14°57'00"	0°57'25"	25°23'27"	27°24'09"	9°02'29"	15°04'08"	16°02'24"	14°52'08"	8°05'59"	3°56'56"
W 7	21 01 22	14°20'05"	20°22'11"	1°01'29"	29°36'15"	15°36'10"	1°10'25"	25°29'27"	27°22'09"	9°02'27"	15°04'07"	16°02'20"	14°49'09"	8°06'56"	3°54'54"
T 8	21 05 19	15°17'36"	4°02'29"	0°05'16"	16°14'12"	1°23'25"	1°23'25"	25°35'27"	27°20'09"	9°02'25"	15°04'06"	16°01'13"	14°46'09"	8°07'53"	3°51'51"
F 9	21 09 16	16°15'09"	18°57'42"	4°25'14"	16°52'16"	1°52'16"	1°36'25"	25°41'27"	27°18'09"	9°02'24"	15°04'05"	16°01'05"	14°42'09"	8°09'20"	3°49'49"
S 10	21 13 12	17°12'42"	3°04'30"	6°04'24"	17°31'17"	1°49'25"	1°49'25"	25°47'27"	27°15'09"	9°02'22"	15°04'04"	15°56'09"	14°39'09"	8°10'26"	3°47'47"
S 11	21 17 09	18°10'17"	18°30'7"	7°42'34"	18°09'22"	2°03'25"	2°03'25"	25°53'27"	27°13'09"	9°02'20"	15°04'03"	15°47'09"	14°36'09"	8°11'33"	3°44'44"
M12	21 21 05	19°07'52"	3°01'18"	9°18'44"	18°47'26"	2°16'25"	2°16'25"	25°58'27"	27°10'09"	9°02'19"	15°04'02"	15°39'09"	14°33'09"	8°12'40"	3°42'42"
T 13	21 25 02	20°05'29"	17°58'10"	10°53'54"	19°25'29"	2°29'26"	2°29'26"	26°04'27"	27°08'09"	9°02'17"	15°04'01"	15°33'09"	14°30'09"	8°13'46"	3°40'40"
W14	21 28 58	21°03'06"	2°02'23"	12°26'6"	19°49'20"	2°42'26"	2°42'26"	26°10'27"	27°06'09"	9°02'16"	15°04'00"	15°30'09"	14°27'09"	8°14'53"	3°38'38"
T 15	21 32 55	22°00'44"	16°30'13"	13°58'7"	20°42'25"	2°55'26"	2°55'26"	26°15'27"	27°03'09"	9°02'14"	15°03'59"	15°28'09"	14°23'09"	8°16'00"	3°36'36"
F 16	21 36 51	22°58'23"	0°07'20"	15°28'8"	19°49'21"	3°08'26"	3°08'26"	26°21'27"	27°01'09"	9°02'12"	15°03'58"	15°28'09"	14°20'09"	8°17'07"	3°34'34"
S 17	21 40 48	23°56'03"	13°52'13"	16°56'9"	19°49'21"	3°21'26"	3°21'26"	26°26'27"	26°59'09"	9°02'11"	15°03'57"	15°28'09"	14°17'09"	8°18'13"	3°33'33"
S 18	21 44 44	24°53'45"	27°08'18"	18°23'10"	10°49'22"	3°34'22"	3°34'22"	26°31'26"	26°56'09"	9°02'09"	15°03'56"	15°28'09"	14°14'09"	8°19'20"	3°31'31"
M19	21 48 41	25°51'27"	10°03'10"	19°48'11"	11°48'23"	3°46'23"	3°46'23"	26°37'26"	26°54'09"	9°02'08"	15°03'55"	15°26'09"	14°11'09"	8°20'27"	3°29'29"
T 20	21 52 38	26°49'10"	22°59'21"	12°47'23"	12°47'23"	3°59'23"	3°59'23"	26°42'26"	26°51'09"	9°02'06"	15°03'54"	15°21'09"	14°08'09"	8°21'33"	3°28'28"
W21	21 56 34	27°46'55"	5°03'38"	22°34'13"	13°45'24"	4°12'24"	4°12'24"	26°47'26"	26°49'09"	9°02'05"	15°03'53"	15°13'09"	14°04'09"	8°22'36"	3°26'26"
T 22	22 00 31	28°44'41"	18°06'23"	23°54'14"	14°43'25"	4°25'26"	4°25'26"	26°52'26"	26°47'09"	9°02'03"	15°03'52"	15°03'09"	14°01'09"	8°23'42"	3°25'25"
F 23	22 04 27	29°42'28"	0°08'25"	25°13'15"	15°41'25"	4°37'26"	4°37'26"	26°57'26"	26°44'09"	9°02'02"	15°03'51"	14°50'09"	13°58'09"	8°24'53"	3°23'23"
S 24	22 08 24	0°04'16"	12°35'26"	26°29'16"	16°38'26"	4°50'26"	4°50'26"	27°02'26"	26°42'09"	9°02'00"	15°03'50"	14°37'09"	13°55'09"	8°26'00"	3°22'22"
S 25	22 12 20	1°38'06"	24°37'27"	17°35'27"	17°35'27"	5°03'27"	5°03'27"	27°06'26"	26°39'09"	8°59'59"	15°03'49"	14°24'09"	13°52'09"	8°27'07"	3°21'21"
M26	22 16 17	2°35'58"	6°03'33"	18°57'18"	18°31'27"	5°15'27"	5°15'27"	27°11'26"	26°37'09"	8°57'57"	14°54'48"	14°13'09"	13°48'09"	8°28'14"	3°20'20"
T 27	22 20 13	3°33'51"	18°08'08"	19°27'08"	19°27'08"	5°28'28"	5°28'28"	27°16'26"	26°35'09"	8°56'56"	14°54'47"	14°03'09"	13°45'09"	8°29'19"	3°19'19"
W28	22 24 10	4°31'46													

SWISS EPHEMERIS for the year 2002

SEPTEMBER 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	22 39 56	8 ^m 23'44	18 ^{II} 41	5 [♁] 31	23 [♁] 58	1 ^m 31	6 [♁] 30	27 ^{II} 37	26 [°] R23	8 [°] R49	14 [♁] 55	13 [°] R50	13 ^{II} 29	11 ^Y 54	3 [°] R15
M 2	22 43 53	9 [°] 21'48	1 [♁] 30	6 [°] 28	24 [°] 51	2 [°] 9	6 [°] 42	27 [°] 42	26 [°] 21	8 [°] 47	14 [°] 55	13 ^{II} 49	13 [°] 26	12 [°] 1	3 [°] R15
T 3	22 47 49	10 [°] 19'54	14 [°] 45	7 [°] 22	25 [°] 43	2 [°] 48	6 [°] 54	27 [°] 46	26 [°] 18	8 [°] 46	14 [°] 55	13 [°] 47	13 [°] 23	12 [°] 7	3 [°] 14
W 4	22 51 46	11 [°] 18'02	28 [°] 29	8 [°] 14	26 [°] 35	3 [°] 26	7 [°] 6	27 [°] 50	26 [°] 16	8 [°] 45	14 [°] 55	13 [°] 42	13 [°] 20	12 [°] 14	3 [°] 14
T 5	22 55 42	12 [°] 16'12	12 [♁] 42	9 [°] 2	27 [°] 25	4 [°] 4	7 [°] 19	27 [°] 53	26 [°] 14	8 [°] 44	14 [°] 56	13 [°] 34	13 [°] 17	12 [°] 21	3 [°] 14
F 6	22 59 39	13 [°] 14'24	27 [°] 21	9 [°] 47	28 [°] 16	4 [°] 42	7 [°] 31	27 [°] 57	26 [°] 12	8 [°] 42	14 [°] 56	13 [°] 24	13 [°] 13	12 [°] 27	3 [°] 13
S 7	23 3 36	14 [°] 12'38	12 ^m 20	10 [°] 28	29 [°] 5	5 [°] 20	7 [°] 43	28 [°] 1	26 [°] 9	8 [°] 41	14 [°] 56	13 [°] 13	13 [°] 10	12 [°] 34	3 [°] 13
S 8	23 7 32	15 [°] 10'53	27 [°] 30	11 [°] 5	29 [°] 54	5 [°] 59	7 [°] 54	28 [°] 4	26 [°] 7	8 [°] 40	14 [°] 57	13 [°] 2	13 [°] 7	12 [°] 41	3 [°] D13
M 9	23 11 29	16 [°] 9'10	12 [♁] 40	11 [°] 39	0 ^m L42	6 [°] 37	8 [°] 6	28 [°] 8	26 [°] 5	8 [°] 39	14 [°] 57	12 [°] 52	13 [°] 4	12 [°] 47	3 [°] 13
T 10	23 15 25	17 [°] 7'28	27 [°] 39	12 [°] 8	1 [°] 29	7 [°] 15	8 [°] 18	28 [°] 11	26 [°] 3	8 [°] 37	14 [°] 58	12 [°] 45	13 [°] 1	12 [°] 54	3 [°] 14
W11	23 19 22	18 [°] 5'49	12 ^m L20	12 [°] 32	2 [°] 15	7 [°] 53	8 [°] 30	28 [°] 15	26 [°] 0	8 [°] 36	14 [°] 58	12 [°] 40	12 [°] 58	13 [°] 1	3 [°] 14
T 12	23 23 18	19 [°] 4'10	26 [°] 38	12 [°] 51	3 [°] 1	8 [°] 31	8 [°] 41	28 [°] 18	25 [°] 58	8 [°] 35	14 [°] 59	12 [°] 37	12 [°] 54	13 [°] 8	3 [°] 14
F 13	23 27 15	20 [°] 2'34	10 [♁] 32	13 [°] 5	3 [°] 46	9 [°] 9	8 [°] 53	28 [°] 21	25 [°] 56	8 [°] 34	14 [°] 59	12 [°] D37	12 [°] 51	13 [°] 14	3 [°] 15
S 14	23 31 11	21 [°] 0'59	24 [°] 3	13 [°] 13	4 [°] 30	9 [°] 48	9 [°] 4	28 [°] 24	25 [°] 54	8 [°] 33	15 [°] 0	12 [°] R37	12 [°] 48	13 [°] 21	3 [°] 15
S 15	23 35 8	21 [°] 59'25	7 [♁] 12	13 [°] R15	5 [°] 12	10 [°] 26	9 [°] 16	28 [°] 27	25 [°] 52	8 [°] 32	15 [°] 0	12 [°] 36	12 [°] 45	13 [°] 28	3 [°] 16
M16	23 39 5	22 [°] 57'53	20 [°] 3	13 [°] 10	5 [°] 54	11 [°] 4	9 [°] 27	28 [°] 29	25 [°] 50	8 [°] 31	15 [°] 1	12 [°] 34	12 [°] 42	13 [°] 34	3 [°] 16
T 17	23 43 1	23 [°] 56'23	2 [♁] 39	12 [°] 59	6 [°] 35	11 [°] 42	9 [°] 38	28 [°] 32	25 [°] 48	8 [°] 30	15 [°] 2	12 [°] 29	12 [°] 39	13 [°] 41	3 [°] 17
W18	23 46 58	24 [°] 54'54	15 [°] 4	12 [°] 41	7 [°] 15	12 [°] 20	9 [°] 50	28 [°] 35	25 [°] 46	8 [°] 29	15 [°] 2	12 [°] 21	12 [°] 35	13 [°] 48	3 [°] 18
T 19	23 50 54	25 [°] 53'27	27 [°] 19	12 [°] 17	7 [°] 53	12 [°] 58	10 [°] 1	28 [°] 37	25 [°] 44	8 [°] 28	15 [°] 3	12 [°] 10	12 [°] 32	13 [°] 54	3 [°] 19
F 20	23 54 51	26 [°] 52'02	9 [♁] 26	11 [°] 45	8 [°] 31	13 [°] 37	10 [°] 12	28 [°] 40	25 [°] 42	8 [°] 27	15 [°] 4	11 [°] 58	12 [°] 29	14 [°] 1	3 [°] 20
S 21	23 58 47	27 [°] 50'39	21 [°] 27	11 [°] 6	9 [°] 7	14 [°] 15	10 [°] 23	28 [°] 42	25 [°] 40	8 [°] 26	15 [°] 5	11 [°] 44	12 [°] 26	14 [°] 8	3 [°] 21
S 22	0 2 44	28 [°] 49'17	3 ^Y 23	10 [°] 21	9 [°] 42	14 [°] 53	10 [°] 34	28 [°] 44	25 [°] 38	8 [°] 25	15 [°] 6	11 [°] 31	12 [°] 23	14 [°] 15	3 [°] 22
M23	0 6 40	29 [°] 47'58	15 [°] 15	9 [°] 29	10 [°] 16	15 [°] 31	10 [°] 44	28 [°] 46	25 [°] 36	8 [°] 24	15 [°] 6	11 [°] 19	12 [°] 19	14 [°] 21	3 [°] 23
T 24	0 10 37	0 [♁] 46'40	27 [°] 5	8 [°] 32	10 [°] 48	16 [°] 9	10 [°] 55	28 [°] 48	25 [°] 35	8 [°] 23	15 [°] 7	11 [°] 9	12 [°] 16	14 [°] 28	3 [°] 25
W25	0 14 34	1 [°] 45'25	8 [♁] 55	7 [°] 31	11 [°] 19	16 [°] 47	11 [°] 6	28 [°] 50	25 [°] 33	8 [°] 22	15 [°] 8	11 [°] 2	12 [°] 13	14 [°] 35	3 [°] 26
T 26	0 18 30	2 [°] 44'11	20 [°] 48	6 [°] 26	11 [°] 49	17 [°] 26	11 [°] 16	28 [°] 52	25 [°] 31	8 [°] 21	15 [°] 9	10 [°] 58	12 [°] 10	14 [°] 41	3 [°] 28
F 27	0 22 27	3 [°] 43'00	2 ^{II} 47	5 [°] 20	12 [°] 17	18 [°] 4	11 [°] 27	28 [°] 53	25 [°] 29	8 [°] 21	15 [°] 10	10 [°] 56	12 [°] 7	14 [°] 48	3 [°] 29
S 28	0 26 23	4 [°] 41'52	14 [°] 57	4 [°] 13	12 [°] 43	18 [°] 42	11 [°] 37	28 [°] 55	25 [°] 28	8 [°] 20	15 [°] 11	10 [°] D56	12 [°] 4	14 [°] 55	3 [°] 31
S 29	0 30 20	5 [°] 40'45	27 [°] 22	3 [°] 8	13 [°] 8	19 [°] 20	11 [°] 47	28 [°] 56	25 [°] 26	8 [°] 19	15 [°] 12	10 [°] 56	12 [°] 0	15 [°] 1	3 [°] 33
M30	0 34 16	6 [♁] 39'41	10 [♁] 6	2 [♁] 6	13 ^m L31	19 ^m 58	11 [♁] 57	28 ^{II} 58	25 [°] 24	8 [°] 19	15 [♁] 14	10 [°] R56	11 ^{II} 57	15 ^Y 8	3 [°] 35

Delta T = 64.32 sec.

OCTOBER 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	0 38 13	7 [♁] 38'39	23 [♁] 16	1 [°] R 9	13 ^m L52	20 ^m 37	12 [♁] 7	28 ^{II} 59	25 [°] R23	8 [°] R18	15 [♁] 15	10 [°] R55	11 ^{II} 54	15 ^Y 15	3 [°] R37
W 2	0 42 9	8 [°] 37'40	6 [♁] 53	0 [♁] 18	14 [°] 12	21 [°] 15	12 [°] 17	29 [°] 0	25 [°] 21	8 [°] 17	15 [°] 16	10 ^{II} 52	11 [°] 51	15 [°] 22	3 [°] 39
T 3	0 46 6	9 [°] 36'42	21 [°] 1	29 ^m 35	14 [°] 29	21 [°] 53	12 [°] 27	29 [°] 1	25 [°] 20	8 [°] 17	15 [°] 17	10 [°] 46	11 [°] 48	15 [°] 28	3 [°] 41
F 4	0 50 3	10 [°] 35'47	5 ^m 36	29 [°] 1	14 [°] 45	22 [°] 31	12 [°] 37	29 [°] 2	25 [°] 18	8 [°] 16	15 [°] 18	10 [°] 39	11 [°] 45	15 [°] 35	3 [°] 43
S 5	0 53 59	11 [°] 34'54	20 [°] 35	28 [°] 37	14 [°] 59	23 [°] 9	12 [°] 47	29 [°] 3	25 [°] 17	8 [°] 16	15 [°] 19	10 [°] 30	11 [°] 41	15 [°] 42	3 [°] 45
S 6	0 57 56	12 [°] 34'03	5 [♁] 49	28 [°] 23	15 [°] 11	23 [°] 48	12 [°] 56	29 [°] 3	25 [°] 15	8 [°] 15	15 [°] 21	10 [°] 21	11 [°] 38	15 [°] 48	3 [°] 47
M 7	1 1 52	13 [°] 33'15	21 [°] 8	28 [°] D19	15 [°] 20	24 [°] 26	13 [°] 6	29 [°] 4	25 [°] 14	8 [°] 15	15 [°] 22	10 [°] 13	11 [°] 35	15 [°] 55	3 [°] 50
T 8	1 5 49	14 [°] 32'28	6 ^m L20	28 [°] 27	15 [°] 28	25 [°] 4	13 [°] 15	29 [°] 4	25 [°] 13	8 [°] 14	15 [°] 23	10 [°] 7	11 [°] 32	16 [°] 2	3 [°] 52
W 9	1 9 45	15 [°] 31'43	21 [°] 16	28 [°] 44	15 [°] 33	25 [°] 42	13 [°] 24	29 [°] 5	25 [°] 11	8 [°] 14	15 [°] 25	10 [°] 3	11 [°] 29	16 [°] 8	3 [°] 55
T 10	1 13 42	16 [°] 31'00	5 [♁] 47	29 [°] 12	15 [°] 36	26 [°] 21	13 [°] 33	29 [°] 5	25 [°] 10	8 [°] 14	15 [°] 26	10 [°] D 2	11 [°] 25	16 [°] 15	3 [°] 58
F 11	1 17 38	17 [°] 30'19	19 [°] 53	29 [°] 49	15 [°] R37	26 [°] 59	13 [°] 42	29 [°] 5	25 [°] 9	8 [°] 13	15 [°] 27	10 [°] 2	11 [°] 22	16 [°] 22	4 [°] 0
S 12	1 21 35	18 [°] 29'40	3 [♁] 30	0 [♁] 35	15 [°] 35	27 [°] 37	13 [°] 51	29 [°] R 5	25 [°] 8	8 [°] 13	15 [°] 29	10 [°] 3	11 [°] 19	16 [°] 29	4 [°] 3
S 13	1 25 31	19 [°] 29'03	16 [°] 43	1 [°] 29	15 [°] 31	28 [°] 15	14 [°] 0	29 [°] 5	25 [°] 7	8 [°] 13	15 [°] 30	10 [°] R 4	11 [°] 16	16 [°] 35	4 [°] 6
M14	1 29 28	20 [°] 28'27	29 [°] 33	2 [°] 31	15 [°] 24	28 [°] 54	14 [°] 8	29 [°] 5	25 [°] 6	8 [°] 12	15 [°] 32	10 [°] 3	11 [°] 13	16 [°] 42	4 [°] 9
T 15	1 33 25	21 [°] 27'53	12 [♁] 5	3 [°] 39	15 [°] 15	29 [°] 32	14 [°] 17	29 [°] 4	25 [°] 5	8 [°] 12	15 [°] 33	10 [°] 1	11 [°] 10	16 [°] 49	4 [°] 12
W16	1 37 21	22 [°] 27'20	24 [°] 22	4 [°] 52	15 [°] 4	0 [♁] 10	14 [°] 25	29 [°] 4	25 [°] 4	8 [°] 12	15 [°] 35	9 [°] 56	11 [°] 6	16 [°] 55	4 [°] 15
T 17	1 41 18	23 [°] 26'50	6 [♁] 29	6 [°] 11	14 [°] 50	0 [°] 48	14 [°] 33	29 [°] 3	25 [°] 3	8 [°] 12	15 [°] 36	9 [°] 50	11 [°] 3	17 [°] 2	4 [°] 18
F 18	1 45 14	24 [°] 26'21	18 [°] 29	7 [°] 33	14 [°] 34										

SWISS EPHEMERIS for the year 2002

NOVEMBER 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	2 40 26	8♉23'12	14♏21	0♉ 5	7°R35	10♉23	16♏21	28°R42	24°R55	8♉14	16♏ 3	9°R 4	10♏16	18°Y42	5♉14
S 2	2 44 23	9°23'14	29° 5	1°45	6♉59	11° 2	16°27	28♏40	24°≈55	8°14	16° 5	9♏ 0	10°12	18°49	5°18
S 3	2 48 19	10°23'19	14♏ 6	3°25	6°23	11°40	16°33	28°38	24°55	8°15	16° 7	8°56	10° 9	18°56	5°22
M 4	2 52 16	11°23'26	29°16	5° 4	5°47	12°18	16°38	28°35	24°D54	8°15	16° 9	8°52	10° 6	19° 3	5°27
T 5	2 56 12	12°23'34	14♏24	6°43	5°13	12°57	16°44	28°33	24°55	8°16	16°11	8°49	10° 3	19° 9	5°31
W 6	3 0 9	13°23'45	29°22	8°22	4°39	13°35	16°49	28°30	24°55	8°16	16°13	8°47	10° 0	19°16	5°35
T 7	3 4 5	14°23'57	14♏ 1	10° 0	4° 7	14°13	16°54	28°27	24°55	8°17	16°15	8°D47	9°56	19°23	5°40
F 8	3 8 2	15°24'11	28°16	11°38	3°36	14°52	16°59	28°24	24°55	8°17	16°17	8°48	9°53	19°29	5°44
S 9	3 11 58	16°24'27	12♉ 3	13°16	3° 6	15°30	17° 4	28°21	24°55	8°18	16°19	8°50	9°50	19°36	5°49
S 10	3 15 55	17°24'44	25°24	14°53	2°39	16° 9	17° 9	28°18	24°55	8°19	16°21	8°51	9°47	19°43	5°54
M11	3 19 52	18°25'02	8≈20	16°30	2°13	16°47	17°13	28°15	24°56	8°20	16°23	8°52	9°44	19°49	5°58
T 12	3 23 48	19°25'22	20°55	18° 7	1°50	17°26	17°18	28°12	24°56	8°20	16°25	8°R52	9°41	19°56	6° 3
W13	3 27 45	20°25'43	3♏12	19°43	1°28	18° 4	17°22	28° 9	24°56	8°21	16°27	8°52	9°37	20° 3	6° 8
T 14	3 31 41	21°26'06	15°17	21°19	1° 9	18°42	17°26	28° 5	24°57	8°22	16°29	8°50	9°34	20° 9	6°13
F 15	3 35 38	22°26'30	27°13	22°55	0°52	19°21	17°29	28° 2	24°57	8°23	16°31	8°48	9°31	20°16	6°18
S 16	3 39 34	23°26'55	9♏ 4	24°30	0°38	19°59	17°33	27°58	24°58	8°24	16°33	8°46	9°28	20°23	6°23
S 17	3 43 31	24°27'22	20°55	26° 5	0°26	20°38	17°36	27°55	24°59	8°24	16°35	8°43	9°25	20°30	6°28
M18	3 47 27	25°27'50	2♉47	27°40	0°17	21°16	17°40	27°51	24°59	8°25	16°38	8°41	9°22	20°36	6°33
T 19	3 51 24	26°28'20	14°43	29°15	0°10	21°55	17°43	27°47	25° 0	8°26	16°40	8°40	9°18	20°43	6°38
W20	3 55 21	27°28'51	26°46	0♏49	0° 5	22°33	17°46	27°43	25° 1	8°27	16°42	8°39	9°15	20°50	6°43
T 21	3 59 17	28°29'24	8♏56	2°23	0°D 3	23°12	17°48	27°39	25° 2	8°28	16°44	8°D39	9°12	20°56	6°48
F 22	4 3 14	29°29'58	21°16	3°57	0° 4	23°50	17°51	27°35	25° 3	8°29	16°46	8°39	9° 9	21° 3	6°54
S 23	4 7 10	0♏30'34	3♉47	5°31	0° 7	24°29	17°53	27°31	25° 4	8°31	16°49	8°39	9° 6	21°10	6°59
S 24	4 11 7	1°31'12	16°30	7° 5	0°12	25° 7	17°55	27°27	25° 4	8°32	16°51	8°40	9° 2	21°16	7° 4
M25	4 15 3	2°31'51	29°27	8°38	0°20	25°46	17°57	27°23	25° 6	8°33	16°53	8°41	8°59	21°23	7° 9
T 26	4 19 0	3°32'31	12♏41	10°11	0°30	26°24	17°59	27°19	25° 7	8°34	16°55	8°41	8°56	21°30	7°15
W27	4 22 56	4°33'14	26°11	11°45	0°42	27° 3	18° 1	27°14	25° 8	8°35	16°58	8°42	8°53	21°36	7°20
T 28	4 26 53	5°33'58	9♏59	13°18	0°56	27°41	18° 2	27°10	25° 9	8°36	17° 0	8°R42	8°50	21°43	7°26
F 29	4 30 50	6°34'43	24° 6	14°51	1°12	28°20	18° 3	27° 6	25°10	8°38	17° 2	8°42	8°47	21°50	7°31
S 30	4 34 46	7♏35'30	8♏29	16♏23	1♉31	28♏58	18♏ 4	27♏ 1	25≈11	8≈39	17♏ 4	8♏42	8♏43	21°Y57	7♉37

Delta T = 64.38 sec.

DECEMBER 2002

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 38 43	8♏36'18	23♏ 6	17♏56	1♉51	29♏37	18♏ 5	26°R57	25≈13	8≈40	17♏ 7	8♏41	8♏40	22°Y 3	7♉42
M 2	4 42 39	9°37'08	7♏51	19°29	2°14	0♉15	18° 6	26♏52	25°14	8°42	17° 9	8°42	8°37	22°10	7°48
T 3	4 46 36	10°38'00	22°39	21° 1	2°38	0°54	18° 6	26°47	25°16	8°43	17°11	8°42	8°34	22°17	7°54
W 4	4 50 32	11°38'53	7♏22	22°34	3° 4	1°33	18° 6	26°43	25°17	8°44	17°13	8°R42	8°31	22°23	7°59
T 5	4 54 29	12°39'47	21°53	24° 6	3°32	2°11	18°R 6	26°38	25°19	8°46	17°16	8°42	8°28	22°30	8° 5
F 6	4 58 26	13°40'42	6♉ 6	25°38	4° 1	2°50	18° 6	26°33	25°20	8°47	17°18	8°41	8°24	22°37	8°11
S 7	5 2 22	14°41'37	19°56	27°10	4°32	3°28	18° 6	26°28	25°22	8°49	17°20	8°41	8°21	22°43	8°16
S 8	5 6 19	15°42'34	3≈23	28°42	5° 4	4° 7	18° 5	26°24	25°23	8°50	17°23	8°40	8°18	22°50	8°22
M 9	5 10 15	16°43'32	16°25	0♉14	5°38	4°45	18° 4	26°19	25°25	8°52	17°25	8°39	8°15	22°57	8°28
T 10	5 14 12	17°44'30	29° 5	1°45	6°14	5°24	18° 3	26°14	25°27	8°54	17°27	8°38	8°12	23° 3	8°34
W11	5 18 8	18°45'28	11♏26	3°16	6°50	6° 3	18° 2	26° 9	25°29	8°55	17°30	8°37	8° 8	23°10	8°40
T 12	5 22 5	19°46'27	23°32	4°47	7°28	6°41	18° 1	26° 4	25°30	8°57	17°32	8°D37	8° 5	23°17	8°45
F 13	5 26 1	20°47'27	5♏28	6°17	8° 8	7°20	17°59	25°59	25°32	8°58	17°34	8°38	8° 2	23°23	8°51
S 14	5 29 58	21°48'28	17°19	7°47	8°48	7°58	17°57	25°54	25°34	9° 0	17°36	8°39	7°59	23°30	8°57
S 15	5 33 55	22°49'28	29° 9	9°16	9°30	8°37	17°55	25°49	25°36	9° 2	17°39	8°40	7°56	23°37	9° 3
M16	5 37 51	23°50'30	11♏ 3	10°44	10°13	9°16	17°53	25°44	25°38	9° 4	17°41	8°42	7°53	23°43	9° 9
T 17	5 41 48	24°51'32	23° 4	12°11	10°56	9°54	17°51	25°40	25°40	9° 5	17°43	8°43	7°49	23°50	9°15
W18	5 45 44	25°52'35	5♏15	13°38	11°41	10°33	17°48	25°35	25°42	9° 7	17°46	8°R43	7°46	23°57	9°21
T 19	5 49 41	26°53'38	17°38	15° 2	12°27	11°11	17°46	25°30	25°44	9° 9	17°48	8°43	7°43	24° 4	9°27
F 20	5 53 37	27°54'41	0♉16	16°25	13°14	11°50	17°43	25°25	25°47	9°11	17°50	8°42	7°40	24°10	9°33
S 21	5 57 34	28°55'46	13° 8	17°47	14° 2	12°29	17°40	25°20	25°49	9°12	17°52	8°40	7°37	24°17	9°39
S 22	6 1 30	29°56'51	26°14	19° 6	14°51	13° 7	17°36	25°15	25°51	9°14	17°55	8°37	7°34	24°24	9°45
M23	6 5 27	0♉57'56	9♏34	20°22	15°40	13°46	17°33	25°10	25°53	9°16	17°57	8°33	7°30	24°30	9°51
T 24	6 9 24	1°59'02	23° 7	21°35	16°31	14°25	17°29	25° 5	25°56	9°18	17°59	8°30	7°27	24°37	9°57
W25	6 13 20	3° 0'09	6♏50	22°44	17°22	15° 3	17°25	25° 0	25°58	9°20	18° 1	8°27	7°24	24°44	10° 3
T 26	6 17 17	4° 1'16	20°44	23°50	18°14	15°42	17°21	24°55	26° 1	9°22	18° 4	8°25	7°21	24°50	10° 9
F 27	6 21 13	5° 2'24	4♏46	24°50	19° 7	16°21	17°17	24°50	26° 3	9°24	18° 6	8°D24	7°18	24°57	10°15
S 28	6 25 10	6° 3'33	18°55	25°45	20° 0	16°59	17°13	24°46	26° 5	9°26	18° 8	8°25	7°14	25° 4	10°21
S 29	6 29 6	7° 4'42	3♏10	26°33	20°54	17°38	17° 8	24°41	26° 8	9°28	18°10	8°26	7°11	25°10	10°27
M30	6 33 3	8° 5'52	17°28	27°14	21°49	18°17	17° 3	24°36	26°11	9°30	18°12	8°28	7° 8	25°17	10°33
T 31	6 36 59	9♉ 7'02	1♏47	27♏47	22♏44	18♏55	16♏58	24♏31	26≈13	9≈32	18♏15	8°R29	7♏ 5	25°Y24	10♉39

Delta T = 64.42 sec.

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