

SWISS EPHEMERIS for the year 2053

JANUARY 2053

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	6 44 28	11°13'37"	18°27'13"	7°31'11"	23°27'4"	5°8'16"	2°16'32"	29°28'0"	5°5'6"	0°28'28"	11°20'20"	29°28'31"	29°28'56"	19°27'55"	7°23'29"
T 2	6 48 24	12°24'45"	3°11'13"	8°47'18"	24°19'19"	5°36'24"	2°40'29"	29°5'5"	5°7'0"	0°27'27"	11°21'29"	29°28'53"	29°29'53"	20°2'2"	7°35'35"
F 3	6 52 21	13°3'53"	18°18'18"	10°22'25"	25°34'57"	5°57'6"	2°48'29"	29°11'5"	5°7'0"	0°26'26"	11°22'29"	29°14'50"	29°50'20"	20°8'7"	7°41'41"
S 4	6 56 17	14°5'01"	3°53'33"	11°58'26"	26°50'6"	6°18'25"	2°55'29"	29°17'5"	5°7'0"	0°24'24"	11°23'29"	29°3'29"	29°47'20"	20°15'7"	7°48'48"
S 5	7 0 14	15°6'08"	18°48'13"	13°35'28"	28°5'6"	6°39'3"	3°3'29"	29°23'5"	5°7'0"	0°23'23"	11°24'28"	28°52'29"	29°44'20"	20°22'7"	7°54'54"
M 6	7 4 11	16°7'16"	3°50'50"	15°11'29"	29°20'7"	7°1'3"	3°11'29"	29°29'5"	5°8'0"	0°22'22"	11°25'28"	28°42'29"	29°41'20"	20°29'8"	8°0'0"
T 7	7 8 7	17°8'24"	18°31'16"	16°49'03"	30°36'7"	7°23'3"	3°18'29"	29°35'5"	5°8'0"	0°21'21"	11°26'28"	28°34'29"	29°37'20"	20°35'8"	8°6'6"
W 8	7 12 4	18°9'31"	2°45'18"	18°26'15"	1°51'7"	7°46'3"	3°25'29"	29°41'5"	5°8'0"	0°20'20"	11°27'28"	28°29'29"	29°34'20"	20°42'8"	8°12'12"
T 9	7 16 0	19°10'39"	16°29'20"	4'3"6"	8°9'3"	8°9'3"	3°32'29"	29°47'5"	5°8'0"	0°19'19"	11°28'28"	28°26'29"	29°31'20"	20°49'8"	8°19'19"
F 10	7 19 57	20°11'47"	29°44'21"	21°42'4"	8°32'3"	8°32'3"	3°39'29"	29°53'5"	5°8'0"	0°18'18"	11°29'28"	28°26'29"	29°28'20"	20°55'8"	8°25'25"
S 11	7 23 53	21°12'54"	12°33'23"	23°21'5"	5°37'8"	8°56'3"	3°46'29"	29°59'5"	5°8'0"	0°17'17"	11°30'28"	28°26'29"	29°25'21"	21°2'8"	8°31'31"
S 12	7 27 50	22°14'02"	25°0'25"	25°0'6"	6°52'9"	9°20'3"	3°53'0"	0°6'6"	5°8'0"	0°16'16"	11°31'28"	28°26'29"	29°21'21"	21°9'8"	8°37'37"
M13	7 31 46	23°15'10"	7°10'10"	26°40'8"	7°9"44"	9°44'3"	3°59'0"	0°12'5"	5°7'0"	0°15'15"	11°33'28"	28°25'29"	29°18'21"	21°16'8"	8°43'43"
T 14	7 35 43	24°16'18"	19°9'28"	28°20'9"	9°22'10"	9°22'10"	4°6'0"	0°18'18"	5°7'0"	0°15'15"	11°34'28"	28°22'29"	29°15'21"	21°22'8"	8°49'49"
W15	7 39 40	25°17'25"	1°2'0"	0°38'1"	10°32'10"	10°34'4"	4°12'0"	0°25'5"	5°7'0"	0°14'14"	11°35'28"	28°16'29"	29°12'21"	21°29'8"	8°55'55"
T 16	7 43 36	26°18'32"	12°52'1°	11°53'10"	10°59'4"	10°59'4"	4°18'0"	0°31'5"	5°6'0"	0°13'13"	11°36'28"	28°8'29"	29°9'21"	21°36'9"	9°1'11"
F 17	7 47 33	27°19'40"	24°43'3"	13°8'11"	11°24'4"	11°24'4"	4°24'0"	0°37'7"	5°6'0"	0°12'12"	11°37'27"	27°57'29"	29°6'21"	21°43'9"	9°7'7"
S 18	7 51 29	28°20'46"	6°38'5"	14°24'11"	11°50'4"	11°50'4"	4°30'0"	0°44'4"	5°5'0"	0°11'11"	11°39'27"	27°45'29"	29°2'21"	21°49'9"	9°13'13"
S 19	7 55 26	29°21'53"	18°38'6"	15°39'12"	12°16'4"	12°16'4"	4°35'0"	0°51'5"	5°5'0"	0°11'11"	11°40'27"	27°33'28"	29°59'21"	21°56'9"	9°19'19"
M20	7 59 22	0°22'58"	0°46'8"	8°29'16"	16°54'12"	12°42'4"	4°41'0"	0°57'5"	5°4'0"	0°10'10"	11°41'27"	27°22'28"	28°56'22"	22°3'9"	9°25'25"
T 21	8 3 19	1°24'03"	13°0'10"	10°12'18"	13°9'13"	13°9'13"	4°46'1"	1°4'5"	5°4'0"	0°9'9"	11°42'27"	27°12'28"	28°53'22"	22°9'9"	9°31'31"
W22	8 7 15	2°25'08"	25°24'11"	11°54'19"	19°25'13"	13°35'4"	4°51'1"	1°10'5"	5°3'0"	0°9'9"	11°44'27"	27°5'28"	28°50'22"	22°16'9"	9°37'37"
T 23	8 11 12	3°26'11"	7°57'13"	13°37'20"	14°2'4"	14°2'4"	4°56'1"	1°17'5"	5°2'0"	0°8'8"	11°45'27"	27°1'28"	28°46'22"	22°23'9"	9°43'43"
F 24	8 15 9	4°27'14"	20°40'15"	15°20'21"	15°55'14"	14°30'5"	5°1'1"	1°24'5"	5°1'0"	0°8'8"	11°46'26"	26°59'28"	28°43'22"	22°30'9"	9°49'49"
S 25	8 19 5	5°28'16"	3°37'17"	17°3'23"	11°14°57'	14°57'5"	5°6'1"	1°31'5"	5°1'0"	0°7'7"	11°48'26"	26°59'28"	28°40'22"	22°36'9"	9°55'55"
S 26	8 23 2	6°29'16"	16°48'18"	18°45'24"	15°25'5"	15°25'5"	5°10'1"	1°38'5"	5°0'0"	0°7'7"	11°49'27"	27°0'28"	28°37'22"	22°43'10"	10°0'0"
M27	8 26 58	7°30'16"	0°16'20"	20°27'25"	15°53'5"	15°53'5"	5°14'1"	1°44'5"	4°59'0"	0°6'6"	11°50'27"	27°1'28"	28°34'22"	22°50'10"	10°6'6"
T 28	8 30 55	8°31'14"	14°3'22"	22°7'26"	16°21'5"	16°21'5"	5°18'1"	1°51'5"	4°58'0"	0°6'6"	11°52'27"	27°R 1'	28°31'22"	22°56'10"	10°12'12"
W29	8 34 51	9°32'12"	28°10'23"	23°47'16"	16°50'5"	16°50'5"	5°22'1"	1°58'5"	4°57'0"	5'11°53'	11°53'26"	26°59'28"	28°27'23"	23°3'10"	10°17'17"
T 30	8 38 48	10°33'08"	12°36'25"	25°26'29"	17°18'5"	17°18'5"	5°26'2"	2°5'4"	4°55'0"	5'11°55'	11°55'26"	26°56'28"	28°24'23"	23°10'10"	10°23'23"
F 31	8 42 44	11°34'03"	27°17'27"	27°3'0"	17°47'5"	17°47'5"	5°30'2"	2°12'4"	4°54'0"	0°11°56'	11°56'26"	26°50'28"	28°21'23"	23°17'10"	10°29'29"

Delta T = 126.68 sec.

FEBRUARY 2053

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	8 46 41	12°34'56"	12°8'28"	28°37'1"	1°58'18"	18°16'5"	5°16'33"	2°19'19"	4°53'4"	0°R 4'	11°58'26"	26°R43'	28°18'18"	23°27'23"	10°33'34"
S 2	8 50 38	13°35'49"	27°1'0"	0°9'3"	3°13'18"	18°45'5"	5°36'2"	2°26'4"	4°52'0"	0°11°59'	11°59'26"	26°36'28"	28°15'23"	23°30'10"	10°40'40"
M 3	8 54 34	14°36'40"	11°24'8"	1°38'4"	4°28'19"	19°14'5"	5°40'2"	2°33'4"	4°50'0"	0°4'12"	12°0'26"	26°30'28"	28°12'23"	23°37'10"	10°45'45"
T 4	8 58 31	15°37'30"	26°20'3"	3°4'5"	5°43'19"	19°44'5"	5°42'2"	2°40'4"	4°49'0"	0°4'12"	12°2'26"	26°25'28"	28°8'23"	23°44'10"	10°51'51"
W 5	9 2 27	16°38'19"	10°31'4"	4°24'6"	6°58'20"	20°14'5"	5°45'2"	2°48'4"	4°48'0"	0°4'12"	12°3'26"	26°22'28"	28°5'23"	23°50'10"	10°56'56"
T 6	9 6 24	17°39'07"	24°17'5"	5°40'8"	8°14'20"	20°44'5"	5°48'2"	2°55'4"	4°46'0"	0°4'12"	12°5'26"	26°D21'	28°2'23"	23°57'11"	11°2'22"
F 7	9 10 20	18°39'54"	7°37'6"	6°50'9"	9°29'21"	21°14'5"	5°50'3"	3°2'4"	4°45'0"	0°4'12"	12°6'26"	26°21'27"	27°59'24"	24°4'11"	11°7'7"
S 8	9 14 17	19°40'40"	20°32'7"	7°54'10"	10°44'21"	21°44'5"	5°52'3"	3°9'4"	4°43'0"	0°3'12"	12°8'26"	26°23'27"	27°56'24"	24°10'11"	11°12'12"
S 9	9 18 13	20°41'25"	3°5'8"	8°50'11"	11°59'22"	22°14'5"	5°54'3"	3°16'4"	4°42'0"	0°D 3'	12°9'26"	26°24'27"	27°52'24"	24°17'11"	11°17'17"
M10	9 22 10	21°42'09"	15°20'9"	9°38'13"	13°14'22"	22°45'5"	5°56'3"	3°23'4"	4°40'0"	0°4'12"	12°11'26"	26°25'27"	27°49'24"	24°24'11"	11°23'23"
T 11	9 26 7	22°42'51"	27°23'10"	10°17'14"	14°30'23"	23°15'5"	5°58'3"	3°31'4"	4°38'0"	0°4'12"	12°13'26"	26°R26'	27°46'24"	24°31'11"	11°28'28"
W12	9 30 3	23°43'33"	9°17'10"	10°47'15"	15°45'23"	23°46'5"	5°59'3"	3°38'4"	4°36'0"	0°4'12"	12°14'26"	26°24'27"	27°43'24"	24°37'11"	11°33'33"
T 13	9 34 0	24°44'14"	21°9'11"	11°7'17"	17°0'24"	24°17'6"	6°0'3"	3°45'4"	4°35'0"	0°4'12"	12°16'26"	26°21'27"	27°40'24"	24°44'11"	11°38'38"
F 14	9 37 56	25°44'54"	3°1'11"	11°R16'	18°15'24"	24°48'6"	6°1'3"	3°52'4"	4°33'0"	0°4'12"	12°17'26"	26°17'27"	27°37'24"	24°51'11"	11°43'43"
S 15	9 41 53	26°45'32"	14°59'11"	11°15'19"	19°30'25"	25°19'6"	6°2'4"	4°0'4"	4°31'0"	0°4'12"	12°19'26"	26°12'27"	27°33'24"	24°58'11"	11°48'48"
S 16	9 45 49	27°46'10"	27°4'11"	11°4'20"	20°45'25"	25°51'6"	6°3'4"	4°7'4"	4°29'0"	0°4'12"	12°20'26"	26°7'27"	27°30'25"	25°4'11"	11°53'53"
M17	9 49 46	28°46'46"	9°20'10"	10°42'22"	22°1'26"	26°22'6"	6°3'4"	4°14'4"	4°27'0"	0°5'12"	12°22'26"	26°2'27"	27°27'25"	25°11'11"	11°57'57"
T 18	9 53 42	29°47'20"	21°48'10"	10°10'23"	16°26°54'	26°54'6"	6°4'4"	4°21'4"	4°25'0"	0°5'12"	12°24'25"	25°58'27"	27°24'25"	25°18'12"	12°2'22"
W19	9 57 39	0°47'53"	4°27'9"	9°30'24"	24°31'27"	27°25'6"	6°R 4'	4°29'4"	4°23'0"	0°5'12"	12°25'25"	25°55'27"	27°21'25"	25°24'12"	12°7'7"
T 20	10 1 35	1°48'24"	17°20'8"	8°41'25"	25°46'27"	27°57'6"	6°4'4"	4°36'4"	4°21'0"	0°6'12"	12°27'25"	25°53'27"	27°18'25"	25°31'12"	12°12'12"
F 21	10 5 32	2°48'54"	0°26'7"	7°46'27"	1°28°29'	28°29'6"	6°3'4"	4°43'4"	4°19'0"	0°6'12"	12°28'25"	25°D53'	27°14'25"	25°38'12"	12°16'16"
S 22	10 9 29	3°49'22"	13°43'6"	6°46'28"	16°29°1'	29°1'6"	6°3'4"	4°51'4"	4°17'0"	0°7'12"	12°30'25"	25°54'27"	27°11'25"	25°45'12"	12°21'21"
S 23	10 13 25	4°49'48"	27°13'5"	5°42'29"	19°33'6"	29°33'6"	6°2'4"	4°58'4"	4°15'0"	0°7'12"	12°32'25"	25°55'27"	27°8'25"	25°51'12"	12°25'25"
M24	10 17 22	5°50'12"	10°55'4"	4°36'0"	10°46'0"	0°11°6'	6°2'5"	5°5'4"	4°13'0"	0°8'12"	12°33'25"	25°57'27"	27°5'25"	25°58'12"	12°30'30"
T 25	10 21 18	6°50'35"	24°48'3"	3°31'2"	2°1'0"	0°38'6"	6°1'5"	5°13'4"	4°11'0"	0°8'12"	12°35'25"	25°58'27"	27°2'26"	26°5'12"	12°34'34"
W26	10 25 15	7°50'55"	8°11°52'	2°26'3"	3°16'1"	1°11'5"	5°59'5"	5°20'4"	4°8'0"	0°9'12"	12°36'25"	25°R58'	26°58'26"	26°11'12"	12°38'38"
T 27	10 29 11	8°51'14"	23°5'1°	1°25'4"	4°31'1°	1°43'5"	5°58'5"	5°27'4"	4°6'0"	0°9'12"	12°38'25"	25°58'26"	26°55'26"	26°18'12"	12°43'43"
F 28	10 33 8	9°51'30"	7°25'0"	0°27'5"	5°46'2"	2°11°16'	5°16'5"	5°37'4"	4°4'0"	0°11°10'	12°40'25"	25°57'26"	26°52'26"	26°25'12"	12°47'47"

Delta T = 126.83 sec.

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SWISS EPHEMERIS for the year 2053

MARCH 2053

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	10 37 4	10 ^h 51'45	21 ^m 50	29°R35	7 ^h 1	2 ^h 49	5°R55	5 ^h 42	4°R 2	0 ^h 11	12 ^h 41	25°R55	26 ^m 49	26 ^h 32	12 ^h 51
S 2	10 41 1	11°51'57	6 ^m 13	28°48	8°16	3°22	5 ^m 53	5°49	3 ^h 59	0°11	12°43	25 ^m 53	26°46	26°38	12°55
M 3	10 44 58	12°52'08	20°31	28° 8	9°31	3°55	5°50	5°56	3°57	0°12	12°44	25°51	26°43	26°45	12°59
T 4	10 48 54	13°52'16	4 ^m 39	27°34	10°46	4°28	5°48	6° 4	3°54	0°13	12°46	25°50	26°39	26°52	13° 3
W 5	10 52 51	14°52'23	18°31	27° 8	12° 1	5° 1	5°46	6°11	3°52	0°14	12°48	25°49	26°36	26°59	13° 7
T 6	10 56 47	15°52'28	2 ^h 6	26°48	13°16	5°34	5°43	6°18	3°50	0°15	12°49	25°D49	26°33	27° 5	13°11
F 7	11 0 44	16°52'31	15°20	26°36	14°31	6° 7	5°40	6°25	3°47	0°15	12°51	25°50	26°30	27°12	13°14
S 8	11 4 40	17°52'32	28°14	26°D30	15°46	6°41	5°37	6°33	3°45	0°16	12°53	25°51	26°27	27°19	13°18
S 9	11 8 37	18°52'32	10 ^m 49	26°30	17° 1	7°14	5°34	6°40	3°42	0°17	12°54	25°51	26°23	27°25	13°21
M10	11 12 33	19°52'30	23° 8	26°37	18°16	7°48	5°30	6°47	3°40	0°18	12°56	25°52	26°20	27°32	13°25
T 11	11 16 30	20°52'26	5 ^h 14	26°49	19°31	8°21	5°27	6°54	3°37	0°19	12°57	25°52	26°17	27°39	13°28
W12	11 20 26	21°52'21	17°11	27° 7	20°46	8°55	5°23	7° 1	3°35	0°20	12°59	25°R53	26°14	27°46	13°32
T 13	11 24 23	22°52'14	29° 4	27°30	22° 0	9°29	5°19	7° 8	3°32	0°21	13° 1	25°53	26°11	27°52	13°35
F 14	11 28 20	23°52'05	10 ^h 57	27°59	23°15	10° 3	5°15	7°16	3°30	0°22	13° 2	25°53	26° 8	27°59	13°38
S 15	11 32 16	24°51'55	22°56	28°31	24°30	10°37	5°11	7°23	3°27	0°24	13° 4	25°52	26° 4	28° 6	13°41
S 16	11 36 13	25°51'43	5 ^h 4	29° 8	25°45	11°10	5° 6	7°30	3°24	0°25	13° 5	25°D52	26° 1	28°12	13°45
M17	11 40 9	26°51'29	17°25	29°49	27° 0	11°45	5° 2	7°37	3°22	0°26	13° 7	25°52	25°58	28°19	13°48
T 18	11 44 6	27°51'13	0 ^h 8	28°14	12°19	4°57	7°44	3°19	0°27	13° 9	25°53	25°55	28°26	13°50	
W19	11 48 2	28°50'56	12°56	1°22	29°29	12°53	4°52	7°51	3°17	0°28	13°10	25°53	25°52	28°33	13°53
T 20	11 51 59	29°50'37	26° 8	2°14	0 ^h 44	13°27	4°47	7°58	3°14	0°30	13°12	25°R53	25°49	28°39	13°56
F 21	11 55 55	0 ^h 50'15	9 ^h 37	3° 9	1°59	14° 1	4°42	8° 5	3°12	0°31	13°13	25°53	25°45	28°46	13°59
S 22	11 59 52	1°49'52	23°22	4° 6	3°13	14°36	4°37	8°12	3° 9	0°32	13°15	25°52	25°42	28°53	14° 1
S 23	12 3 48	2°49'26	7 ^h 20	5° 7	4°28	15°10	4°31	8°19	3° 6	0°34	13°16	25°52	25°39	29° 0	14° 4
M24	12 7 45	3°48'58	21°26	6°10	5°43	15°44	4°26	8°25	3° 4	0°35	13°18	25°51	25°36	29° 6	14° 6
T 25	12 11 42	4°48'28	5 ^h 39	7°15	6°57	16°19	4°20	8°32	3° 1	0°36	13°19	25°50	25°33	29°13	14° 9
W26	12 15 38	5°47'56	19°54	8°23	8°12	16°53	4°14	8°39	2°58	0°38	13°21	25°49	25°29	29°20	14°11
T 27	12 19 35	6°47'22	4 ^h 8	9°33	9°26	17°28	4° 8	8°46	2°56	0°39	13°23	25°D49	25°26	29°26	14°13
F 28	12 23 31	7°46'45	18°19	10°45	10°41	18° 3	4° 2	8°53	2°53	0°41	13°24	25°49	25°23	29°33	14°15
S 29	12 27 28	8°46'06	2 ^h 24	12° 0	11°56	18°37	3°56	8°59	2°51	0°42	13°26	25°49	25°20	29°40	14°17
S 30	12 31 24	9°45'24	16°23	13°16	13°10	19°12	3°49	9° 6	2°48	0°44	13°27	25°51	25°17	29°47	14°19
M31	12 35 21	10 ^h 44'40	0 ^h 12	14°34	14°25	19°47	3 ^m 43	9 ^h 13	2 ^h 46	0 ^h 46	13 ^h 28	25 ^m 52	25 ^m 14	29 ^h 53	14 ^h 21

Delta T = 126.96 sec.

APRIL 2053

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 39 17	11 ^h 43'54	13 ^m 50	15 ^h 54	15 ^h 39	20 ^h 22	3°R36	9 ^h 19	2°R43	0 ^h 47	13 ^h 30	25 ^m 53	25 ^m 10	0 ^h 0	14 ^h 23
W 2	12 43 14	12°43'06	27°17	17°16	16°54	20°57	3 ^m 30	9°26	2 ^h 40	0°49	13°31	25°R53	25° 7	0° 7	14°25
T 3	12 47 11	13°42'15	10 ^h 30	18°39	18° 8	21°32	3°23	9°32	2°38	0°50	13°33	25°52	25° 4	0°13	14°26
F 4	12 51 7	14°41'23	23°29	20° 4	19°22	22° 6	3°16	9°39	2°35	0°52	13°34	25°51	25° 1	0°20	14°28
S 5	12 55 4	15°40'28	6 ^m 13	21°31	20°37	22°41	3° 9	9°45	2°33	0°54	13°36	25°48	24°58	0°27	14°30
S 6	12 59 0	16°39'32	18°42	22°59	21°51	23°16	3° 2	9°51	2°30	0°55	13°37	25°45	24°55	0°34	14°31
M 7	13 2 57	17°38'33	0 ^h 59	24°29	23° 6	23°52	2°55	9°58	2°28	0°57	13°38	25°42	24°51	0°40	14°32
T 8	13 6 53	18°37'33	13° 4	26° 1	24°20	24°27	2°48	10° 4	2°25	0°59	13°40	25°38	24°48	0°47	14°33
W 9	13 10 50	19°36'31	25° 2	27°34	25°34	25° 2	2°40	10°10	2°23	1° 1	13°41	25°35	24°45	0°54	14°35
T 10	13 14 46	20°35'28	6 ^h 55	29° 9	26°49	25°37	2°33	10°16	2°20	1° 2	13°43	25°33	24°42	1° 1	14°36
F 11	13 18 43	21°34'22	18°49	0 ^h 45	28° 3	26°12	2°26	10°22	2°18	1° 4	13°44	25°D33	24°39	1° 7	14°37
S 12	13 22 39	22°33'15	0 ^h 47	2°23	29°17	26°47	2°18	10°29	2°16	1° 6	13°45	25°33	24°35	1°14	14°37
S 13	13 26 36	23°32'06	12°54	4° 3	0 ^h 32	27°23	2°11	10°35	2°13	1° 8	13°47	25°34	24°32	1°21	14°38
M14	13 30 33	24°30'56	25°16	5°44	1°46	27°58	2° 3	10°41	2°11	1°10	13°48	25°36	24°29	1°27	14°39
T 15	13 34 29	25°29'43	7 ^h 55	7°26	3° 0	28°33	1°56	10°46	2° 8	1°12	13°49	25°37	24°26	1°34	14°40
W16	13 38 26	26°28'29	20°57	9°10	4°14	29° 9	1°48	10°52	2° 6	1°14	13°50	25°R38	24°23	1°41	14°40
T 17	13 42 22	27°27'13	4 ^h 21	10°56	5°28	29°44	1°41	10°58	2° 4	1°16	13°52	25°38	24°20	1°48	14°41
F 18	13 46 19	28°25'55	18° 9	12°43	6°43	0 ^h 20	1°33	11° 4	2° 2	1°17	13°53	25°36	24°16	1°54	14°41
S 19	13 50 15	29°24'35	2 ^h 18	14°32	7°57	0°55	1°25	11°10	1°59	1°19	13°54	25°33	24°13	2° 1	14°41
S 20	13 54 12	0 ^h 23'14	16°43	16°22	9°11	1°31	1°18	11°15	1°57	1°21	13°55	25°28	24°10	2° 8	14°41
M21	13 58 8	1°21'50	1 ^h 18	18°14	10°25	2° 6	1°10	11°21	1°55	1°23	13°57	25°23	24° 7	2°14	14°42
T 22	14 2 5	2°20'24	15°58	20° 8	11°39	2°42	1° 2	11°26	1°53	1°25	13°58	25°18	24° 4	2°21	14°R42
W23	14 6 2	3°18'57	0 ^h 33	22° 3	12°53	3°17	0°55	11°32	1°51	1°27	13°59	25°13	24° 0	2°28	14°41
T 24	14 9 58	4°17'27	15° 1	24° 0	14° 7	3°53	0°47	11°37	1°49	1°29	14° 0	25°10	23°57	2°35	14°41
F 25	14 13 55	5°15'55	29°15	25°59	15°21	4°29	0°39	11°42	1°47	1°32	14° 1	25°D 8	23°54	2°41	14°41
S 26	14 17 51	6°14'20	13 ^h 24	27°59	16°35	5° 4	0°32	11°48	1°45	1°34	14° 2	25° 9	23°51	2°48	14°41
S 27	14 21 48	7°12'44	26°59	0 ^h 8	17°49	5°40	0°24	11°53	1°43	1°36	14° 3	25°10	23°48	2°55	14°40
M28	14 25 44	8°11'05	10 ^h 28	2° 3	19° 3	6°16	0°16	11°58	1°41	1°38	14° 4	25°11	23°45	3° 2	14°40
T 29	14 29 41	9° 9'24	23°43	4° 7	20°17	6°52	0° 9	12° 3	1°39	1°40	14° 5	25°R12	23°41	3° 8	14°39
W30	14 33 37	10 ^h 8	7 ^h 42	6 ^h 46	6 ^h 13	7 ^h 31	0 ^m 1	12 ^h 8	1 ^h 37	1 ^h 42	14 ^h 6	25 ^m 11	23 ^m 38	3 ^h 15	14 ^h 39

Delta T = 127.11 sec.

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SWISS EPHEMERIS for the year 2053

MAY 2053

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

Delta T = 127.26 sec.

JUNE 2053

00:00 UT

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

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SWISS EPHEMERIS for the year 2053

JULY 2053

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	18 38 4	9 ^h 39'15"	8 ^h 34'5"	6°R40	7 ^h 10'10"	15 ^h 10'4	26 ^h 16'16"	14°R32	1 ^h 14'14"	3 ^h 11'56"	14°R27	19°R17	20 ^h 21'21"	10 ^h 31'12"	11°R53
W 2	18 42 0	10°36'26"	20°37'	6 ^h 57'	8°22'	15°41'	26°18'	14 ^h 31'	1°15'	3°58'	14 ^h 26'	19 ^h 5'	20°18'	10°18'	11 ^h 34'9"
T 3	18 45 57	11°33'37"	2 ^h 29'	5°36'	9°34'	16°18'	26°19'	14°31'	1°16'	4°0'	14°26'	18°55'	20°15'	10°25'	11°45'
F 4	18 49 54	12°30'49"	14°24'	5°8'	10°47'	16°55'	26°21'	14°30'	1°18'	4°2'	14°25'	18°48'	20°12'	10°32'	11°42'
S 5	18 53 50	13°28'00"	26°24'	4°42'	11°59'	17°32'	26°23'	14°29'	1°19'	4°3'	14°25'	18°43'	20°9'	10°38'	11°38'
S 6	18 57 47	14°25'11"	8 ^h 32'	4°20'	13°11'	18°9'	26°26'	14°28'	1°20'	4°5'	14°24'	18°41'	20°5'	10°45'	11°34'
M 7	19 1 143	15°22'23"	20°52'	4°2'	14°23'	18°46'	26°28'	14°27'	1°22'	4°7'	14°24'	18°D40	20°2'	10°52'	11°30'
T 8	19 5 40	16°19'35"	3 ^h 17'	3°48'	15°36'	19°23'	26°31'	14°25'	1°23'	4°9'	14°23'	18°41'	19°59'	10°59'	11°26'
W 9	19 9 36	17°16'47"	16°23'	3°39'	16°48'	20°1'	26°34'	14°24'	1°25'	4°11'	14°23'	18°R41	19°56'	11°5'	11°23'
T 10	19 13 33	18°14'00"	29°42'	3°D35	18°0'	20°38'	26°37'	14°23'	1°27'	4°12'	14°22'	18°41'	19°53'	11°12'	11°19'
F 11	19 17 29	19°11'13"	13 ^h 8'28"	3°36'	19°12'	21°15'	26°40'	14°21'	1°28'	4°14'	14°22'	18°38'	19°49'	11°19'	11°15'
S 12	19 21 26	20°8'27"	27°42'	3°41'	20°24'	21°52'	26°43'	14°19'	1°30'	4°16'	14°21'	18°34'	19°46'	11°25'	11°11'
S 13	19 25 23	21°5'42"	12 ^h 11'22"	3°53'	21°36'	22°29'	26°46'	14°18'	1°32'	4°17'	14°20'	18°27'	19°43'	11°32'	11°8'
M14	19 29 19	22°2'56"	27°23'	4°9'	22°48'	23°6'	26°50'	14°16'	1°34'	4°19'	14°20'	18°19'	19°40'	11°39'	11°4'
T 15	19 33 16	23°0'12"	12 ^h 36'	4°31'	24°0'	23°44'	26°54'	14°14'	1°36'	4°21'	14°19'	18°11'	19°37'	11°46'	11°0'
W16	19 37 12	23°57'27"	27°52'	4°58'	25°12'	24°21'	26°58'	14°12'	1°38'	4°22'	14°18'	18°4'	19°34'	11°52'	10°57'
T 17	19 41 9	24°54'43"	12 ^h 15'	5°31'	26°24'	24°58'	27°2'	14°10'	1°40'	4°24'	14°18'	17°58'	19°30'	11°59'	10°53'
F 18	19 45 5	25°51'59"	27°49'	6°9'	27°36'	25°35'	27°6'	14°8'	1°42'	4°25'	14°17'	17°54'	19°27'	12°6'	10°49'
S 19	19 49 2	26°49'15"	12 ^h 11'	6°52'	28°47'	26°13'	27°11'	14°5'	1°44'	4°27'	14°16'	17°D52	19°24'	12°12'	10°46'
S 20	19 52 58	27°46'32"	26°8'	7°40'	29°59'	26°50'	27°15'	14°3'	1°46'	4°28'	14°15'	17°53'	19°21'	12°19'	10°42'
M21	19 56 55	28°43'48"	9 ^h 13'37"	8°34'	1 ^h 11'	27°27'	27°20'	14°1'	1°48'	4°30'	14°14'	17°54'	19°18'	12°26'	10°39'
T 22	20 0 52	29°41'05"	22°41'	9°33'	2°22'	28°5'	27°25'	13°58'	1°50'	4°31'	14°14'	17°55'	19°15'	12°33'	10°35'
W23	20 4 48	0 ^h 138'22"	5 ^h 11'22"	10°37'	3°34'	28°42'	27°30'	13°55'	1°52'	4°33'	14°13'	17°R55	19°11'	12°39'	10°32'
T 24	20 8 45	1°35'40"	17°46'	11°46'	4°46'	29°20'	27°35'	13°53'	1°55'	4°34'	14°12'	17°53'	19°8'	12°46'	10°28'
F 25	20 12 41	2°32'57"	29°56'	13°0'	5°57'	29°57'	27°41'	13°50'	1°57'	4°36'	14°11'	17°50'	19°5'	12°53'	10°25'
S 26	20 16 38	3°30'16"	11 ^h 15'57"	14°19'	7°9'	0 ^h 135'	27°46'	13°47'	1°59'	4°37'	14°10'	17°45'	19°2'	12°59'	10°22'
S 27	20 20 34	4°27'34"	23°52'	15°42'	8°20'	1°12'	27°52'	13°44'	2°2'	4°38'	14°9'	17°38'	18°59'	13°6'	10°18'
M28	20 24 31	5°24'54"	5 ^h 34'	17°10'	9°31'	1°50'	27°58'	13°41'	2°4'	4°40'	14°8'	17°30'	18°55'	13°13'	10°15'
T 29	20 28 27	6°22'13"	17°36'	18°42'	10°43'	2°27'	28°4'	13°38'	2°7'	4°41'	14°8'	17°23'	18°52'	13°20'	10°12'
W30	20 32 24	7°19'34"	29°30'	20°19'	11°54'	3°5'	28°10'	13°35'	2°9'	4°42'	14°7'	17°16'	18°49'	13°26'	10°9'
T 31	20 36 21	8 ^h 16'55"	11 ^h 11'27"	21 ^h 59'	13 ^h 15'	3 ^h 142'	28 ^h 16'	13 ^h 32'	2 ^h 12'	4 ^h 11'43"	14 ^h 6'	17 ^h 10'	18 ^h 46'	13 ^h 33'	10 ^h 5'

Delta T = 127.55 sec.

AUGUST 2053

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	20 40 17	9 ^h 14'17"	23 ^h 30'	23 ^h 44'	14 ^h 16'	4 ^h 20'	28 ^h 22'	13°R28	2 ^h 14'	4 ^h 11'45"	14°R5	17°R6	18 ^h 43'	13 ^h 40'	10°R2
S 2	20 44 14	10°11'40"	5 ^h 39'	25°31'	15°27'	4°57'	28°29'	13 ^h 25'	2°17'	4°46'	14 ^h 4'	17 ^h 3'	18°40'	13°46'	9 ^h 35'9"
S 3	20 48 10	11°9'03"	17°57'	27°22'	16°38'	5°35'	28°36'	13°22'	2°20'	4°47'	14°3'	17°D3	18°36'	13°53'	9°56'
M 4	20 52 7	12°6'28"	0 ^h 17'27"	29°16'	17°49'	6°13'	28°42'	13°18'	2°22'	4°48'	14°2'	17°3'	18°33'	14°0'	9°53'
T 5	20 56 3	13°3'54"	13°10'	1 ^h 12'	19°0'	6°50'	28°49'	13°14'	2°25'	4°49'	14°1'	17°5'	18°30'	14°6'	9°51'
W 6	21 0 0	14°1'21"	26°11'	3°10'	20°11'	7°28'	28°56'	13°11'	2°28'	4°50'	14°0'	17°6'	18°27'	14°13'	9°48'
T 7	21 3 56	14°58'50"	9 ^h 33'	5°10'	21°22'	8°6'	29°4'	13°7'	2°31'	4°51'	13°59'	17°R7	18°24'	14°20'	9°45'
F 8	21 7 53	15°56'20"	23°12'	7°11'	22°33'	8°44'	29°11'	13°3'	2°33'	4°52'	13°57'	17°7'	18°21'	14°27'	9°42'
S 9	21 11 50	16°53'51"	7 ^h 11'16"	9°14'	23°44'	9°21'	29°18'	13°0'	2°36'	4°53'	13°56'	17°6'	18°17'	14°33'	9°40'
S 10	21 15 46	17°51'23"	21°41'	11°17'	24°54'	9°59'	29°26'	12°56'	2°39'	4°54'	13°55'	17°3'	18°14'	14°40'	9°37'
M11	21 19 43	18°48'57"	6 ^h 25'	13°20'	26°5'	10°37'	29°34'	12°52'	2°42'	4°55'	13°54'	17°0'	18°11'	14°47'	9°35'
T 12	21 23 39	19°46'33"	21°21'	15°24'	27°15'	11°15'	29°41'	12°48'	2°45'	4°56'	13°53'	16°56'	18°8'	14°53'	9°32'
W13	21 27 36	20°44'09"	6 ^h 12'22"	17°28'	28°26'	11°53'	29°49'	12°44'	2°48'	4°57'	13°52'	16°53'	18°5'	15°0'	9°30'
T 14	21 31 32	21°41'47"	21°18'	19°31'	29°36'	12°31'	29°57'	12°40'	2°51'	4°58'	13°51'	16°50'	18°1'	15°7'	9°27'
F 15	21 35 29	22°39'26"	6 ^h 11'2'	21°33'	0 ^h 47'	13°9'	0 ^h 11'6"	12°36'	2°54'	4°58'	13°50'	16°48'	17°58'	15°14'	9°25'
S 16	21 39 25	23°37'06"	20°26'	23°35'	1°57'	13°47'	0°14'	12°31'	2°58'	4°59'	13°48'	16°D48	17°55'	15°20'	9°23'
S 17	21 43 22	24°34'47"	4 ^h 12'26"	25°36'	3°7'	14°25'	0°22'	12°27'	3°1'	5°0'	13°47'	16°49'	17°52'	15°27'	9°21'
M18	21 47 19	25°32'30"	17°59'	27°35'	4°17'	15°3'	0°31'	12°23'	3°4'	5°0'	13°46'	16°50'	17°49'	15°34'	9°19'
T 19	21 51 15	26°30'13"	1 ^h 11'8"	29°34'	5°27'	15°41'	0°40'	12°19'	3°7'	5°1'	13°45'	16°52'	17°46'	15°40'	9°17'
W20	21 55 12	27°27'57"	13°54'	1 ^h 11'31"	6°37'	16°19'	0°48'	12°14'	3°10'	5°2'	13°44'	16°53'	17°42'	15°47'	9°15'
T 21	21 59 8	28°25'43"	26°20'	3°28'	7°47'	16°57'	0°57'	12°10'	3°14'	5°2'	13°43'	16°R53	17°39'	15°54'	9°13'
F 22	22 3 5	29°23'30"	8 ^h 13'31"	5°23'	8°57'	17°35'	1°6'	12°6'	3°17'	5°3'	13°41'	16°53'	17°36'	16°1'	9°11'
S 23	22 7 1	0 ^h 11'18"	20°32'	7°16'	10°7'	18°13'	1°15'	12°1'	3°20'	5°3'	13°40'	16°52'	17°33'	16°7'	9°9'
S 24	22 10 58	1°19'07"	2 ^h 36'	9°8'	11°17'	18°51'	1°24'	11°57'	3°23'	5°4'	13°39'	16°50'	17°30'	16°14'	9°8'
M25	22 14 54	2°16'57"	14°18'	10°59'	12°26'	19°29'	1°34'	11°52'	3°27'	5°4'	13°38'	16°48'	17°27'	16°21'	9°6'
T 26	22 18 51	3°14'49"	26°11'	12°49'	13°36'	20°8'	1°43'	11°48'	3°30'	5°5'	13°37'	16°46'	17°23'	16°27'	9°5'
W27	22 22 48	4°12'41"	8 ^h 12'	14°37'	14°45'	20°46'	1°53'	11°43'	3°34'	5°5'	13°35'	16°44'	17°20'	16°34'	9°3'
T 28	22 26 44	5°10'36"	20°12'	16°24'	15°55'	21°24'	2°2'	11°39'	3°37'	5°6'	13°34'	16°43'	17°17'	16°41'	9°2'
F 29	22 30 41	6°8'31"	2 ^h 12'25"	18°10'	17°4'	22°3'	2°12'	11°34'	3°40'	5°6'	13°33'	16°42'	17°14'	16°47'	9°1'
S 30	22 34 37	7°6'29"	14°48'	19°54'	18°13'	22°41'	2°22'	11°30'	3°44'	5°6'	13°32'	16°D42	17°11'	16°54'	9°0'
S 31	22 38 34	8 ^h 14'28"	27 ^h 12'23"	21 ^h 17'37"	19 ^h 12'22"	23 ^h 11'19"	2 ^h 11'32"	11 ^h 12'25"	3 ^h 11'47"	5 ^h 11'6"	13 ^h 13'30"	16 ^h 11'42"	17 ^h 7'	17 ^h 31'	8 ^h 58'

Delta T = 127.71 sec.

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SWISS EPHEMERIS for the year 2053

SEPTEMBER 2053

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

Delta T = 127.86 sec.

OCTOBER 2053

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

SWISS EPHEMERIS for the year 2053

NOVEMBER 2053

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	2 43 0	9♉ 1'39	9♉28	24°R32	25°15	4♉ 4	14♉54	7°R55	7♉35	4°R22	12°R26	15°R12	13♉50	23♉56	10♉26
S 2	2 46 56	10° 1'40	23°47	24°D24	26° 8	4°44	15° 7	7♉54	7°38	4♉21	12°25	15° 9	13°47	24° 3	10°30
M 3	2 50 53	11° 1'43	7♉58	24°28	27° 1	5°25	15°20	7°54	7°42	4°19	12°24	15°D 8	13°44	24° 9	10°34
T 4	2 54 49	12° 1'49	22° 0	24°43	27°53	6° 5	15°33	7°53	7°45	4°17	12°24	15° 8	13°41	24°16	10°38
W 5	2 58 46	13° 1'56	5♉52	25° 7	28°45	6°46	15°46	7°52	7°48	4°16	12°23	15° 9	13°38	24°23	10°42
T 6	3 2 43	14° 2'05	19°34	25°41	29°36	7°27	16° 0	7°52	7°52	4°14	12°23	15°R 9	13°35	24°30	10°46
F 7	3 6 39	15° 2'17	3♉ 7	26°24	0♉26	8° 8	16°13	7°51	7°55	4°13	12°22	15° 7	13°31	24°36	10°50
S 8	3 10 36	16° 2'30	16°29	27°14	1°15	8°49	16°26	7°51	7°58	4°11	12°22	15° 3	13°28	24°43	10°54
S 9	3 14 32	17° 2'46	29°40	28°11	2° 4	9°29	16°39	7°50	8° 1	4°10	12°22	14°57	13°25	24°50	10°58
M10	3 18 29	18° 3'03	12♉40	29°14	2°51	10°10	16°52	7°50	8° 4	4° 8	12°21	14°47	13°22	24°56	11° 2
T11	3 22 25	19° 3'22	25°27	0♉22	3°38	10°51	17° 6	7°D50	8° 7	4° 6	12°21	14°36	13°19	25° 3	11° 7
W12	3 26 22	20° 3'43	8♉ 1	1°34	4°24	11°32	17°19	7°50	8°10	4° 5	12°20	14°23	13°15	25°10	11°11
T13	3 30 18	21° 4'05	20°22	2°50	5°10	12°13	17°32	7°51	8°14	4° 3	12°20	14°11	13°12	25°16	11°15
F14	3 34 15	22° 4'29	2♉31	4° 9	5°54	12°54	17°45	7°51	8°17	4° 1	12°20	14° 0	13° 9	25°23	11°20
S15	3 38 11	23° 4'55	14°29	5°31	6°37	13°35	17°58	7°51	8°20	4° 0	12°20	13°51	13° 6	25°30	11°24
S16	3 42 8	24° 5'22	26°21	6°56	7°19	14°17	18°12	7°52	8°22	3°58	12°19	13°45	13° 3	25°36	11°29
M17	3 46 5	25° 5'50	8♉10	8°22	8° 0	14°58	18°25	7°52	8°25	3°56	12°19	13°41	13° 0	25°43	11°33
T18	3 50 1	26° 6'19	20° 0	9°50	8°40	15°39	18°38	7°53	8°28	3°55	12°19	13°40	12°56	25°50	11°38
W19	3 53 58	27° 6'50	1♉57	11°19	9°18	16°20	18°51	7°54	8°31	3°53	12°19	13°D40	12°53	25°56	11°43
T20	3 57 54	28° 7'22	14° 8	12°49	9°56	17° 2	19° 4	7°55	8°34	3°51	12°19	13°R40	12°50	26° 3	11°47
F21	4 1 51	29° 7'55	26°35	14°20	10°32	17°43	19°17	7°56	8°37	3°50	12°18	13°39	12°47	26°10	11°52
S22	4 5 47	0♉8'30	9°V26	15°52	11° 7	18°24	19°30	7°57	8°39	3°48	12°18	13°37	12°44	26°17	11°57
S23	4 9 44	1° 9'05	22°43	17°24	11°40	19° 6	19°44	7°58	8°42	3°46	12°18	13°32	12°40	26°23	12° 2
M24	4 13 40	2° 9'42	6♉26	18°57	12°12	19°47	19°57	7°59	8°45	3°45	12°18	13°24	12°37	26°30	12° 7
T25	4 17 37	3°10'21	20°36	20°30	12°42	20°29	20°10	8° 1	8°47	3°43	12°18	13°14	12°34	26°37	12°12
W26	4 21 34	4°11'00	5♉ 7	22° 4	13°11	21°10	20°23	8° 2	8°50	3°41	12°D18	13° 2	12°31	26°43	12°17
T27	4 25 30	5°11'41	19°53	23°37	13°38	21°52	20°36	8° 4	8°52	3°40	12°18	12°50	12°28	26°50	12°22
F28	4 29 27	6°12'24	4♉45	25°11	14° 3	22°33	20°49	8° 6	8°55	3°38	12°18	12°39	12°25	26°57	12°27
S29	4 33 23	7°13'08	19°35	26°45	14°27	23°15	21° 2	8° 8	8°57	3°36	12°18	12°31	12°21	27° 3	12°32
S30	4 37 20	8♉13'53	4♉14	28♉19	14♉49	23♉57	21♉15	8♉10	9♉ 0	3♉34	12♉18	12♉25	12♉18	27♉10	12♉37

Delta T = 128.15 sec.

DECEMBER 2053

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	4 41 16	9♉14'40	18♉38	29♉53	15♉ 8	24♉39	21♉28	8♉12	9♉ 2	3°R33	12°R19	12°R22	12°R15	27♉17	12♉43
T 2	4 45 13	10°15'28	2♉44	1♉27	15°26	25°20	21°40	8°14	9° 4	3♉31	12°19	12°R21	12°12	27°23	12°48
W 3	4 49 10	11°16'18	16°32	3° 1	15°42	26° 2	21°53	8°16	9° 7	3°29	12°19	12°21	12° 9	27°30	12°53
T 4	4 53 6	12°17'09	0♉ 3	4°35	15°56	26°44	22° 6	8°18	9° 9	3°28	12°19	12°20	12° 6	27°37	12°58
F 5	4 57 3	13°18'01	13°18	6° 9	16° 8	27°26	22°19	8°21	9°11	3°26	12°19	12°18	12° 2	27°43	13° 4
S 6	5 0 59	14°18'55	26°21	7°43	16°17	28° 8	22°32	8°23	9°13	3°24	12°20	12°13	11°59	27°50	13° 9
S 7	5 4 56	15°19'50	9♉11	9°17	16°25	28°50	22°44	8°26	9°15	3°23	12°20	12° 5	11°56	27°57	13°14
M 8	5 8 52	16°20'47	21°51	10°50	16°30	29°32	22°57	8°29	9°17	3°21	12°20	11°53	11°53	28° 3	13°20
T 9	5 12 49	17°21'44	4♉20	12°24	16°32	0♉14	23°10	8°32	9°19	3°19	12°20	11°40	11°50	28°10	13°25
W10	5 16 45	18°22'43	16°40	13°58	16°R32	0°56	23°22	8°35	9°21	3°18	12°21	11°25	11°46	28°17	13°31
T11	5 20 42	19°23'42	28°50	15°32	16°30	1°39	23°35	8°38	9°23	3°16	12°21	11°11	11°43	28°24	13°36
F12	5 24 39	20°24'42	10♉52	17° 7	16°25	2°21	23°48	8°41	9°25	3°15	12°22	10°57	11°40	28°30	13°42
S13	5 28 35	21°25'43	22°47	18°41	16°18	3° 3	24° 0	8°44	9°26	3°13	12°22	10°46	11°37	28°37	13°47
S14	5 32 32	22°26'45	4♉36	20°15	16° 8	3°45	24°12	8°47	9°28	3°11	12°22	10°38	11°34	28°44	13°53
M15	5 36 28	23°27'47	16°23	21°49	15°56	4°28	24°25	8°51	9°30	3°10	12°23	10°33	11°31	28°50	13°59
T16	5 40 25	24°28'50	28°11	23°24	15°42	5°10	24°37	8°54	9°31	3° 8	12°23	10°31	11°27	28°57	14° 4
W17	5 44 21	25°29'53	10♉ 6	24°58	15°24	5°53	24°49	8°58	9°33	3° 7	12°24	10°D30	11°24	29° 4	14°10
T18	5 48 18	26°30'57	22°12	26°33	15° 5	6°35	25° 2	9° 2	9°35	3° 5	12°25	10°R30	11°21	29°10	14°16
F19	5 52 14	27°32'01	4°V36	28° 7	14°43	7°18	25°14	9° 5	9°36	3° 4	12°25	10°30	11°18	29°17	14°21
S20	5 56 11	28°33'05	17°21	29°42	14°19	8° 0	25°26	9° 9	9°37	3° 2	12°26	10°28	11°15	29°24	14°27
S21	6 0 8	29°34'10	0♉34	1♉17	13°53	8°43	25°38	9°13	9°39	3° 1	12°26	10°25	11°12	29°30	14°33
M22	6 4 4	0♉35'14	14°16	2°53	13°25	9°25	25°50	9°17	9°40	2°59	12°27	10°18	11° 8	29°37	14°39
T23	6 8 1	1°36'20	28°28	4°28	12°55	10° 8	26° 2	9°21	9°41	2°58	12°28	10° 9	11° 5	29°44	14°44
W24	6 11 57	2°37'25	13♉ 7	6° 4	12°24	10°51	26°14	9°26	9°43	2°56	12°28	9°59	11° 2	29°50	14°50
T25	6 15 54	3°38'31	28° 7	7°40	11°51	11°34	26°26	9°30	9°44	2°55	12°29	9°48	10°59	29°57	14°56
F26	6 19 50	4°39'37	13♉18	9°16	11°16	12°16	26°38	9°34	9°45	2°53	12°30	9°39	10°56	0♉ 4	15° 2
S27	6 23 47	5°40'43	28°30	10°52	10°41	12°59	26°49	9°39	9°46	2°52	12°31	9°31	10°52	0°10	15° 7
S28	6 27 44	6°41'50	13♉32	12°29	10° 5	13°42	27° 1	9°43	9°47	2°51	12°31	9°26	10°49	0°17	15°13
M29	6 31 40	7°42'58	28°17	14° 5	9°29	14°25	27°12	9°48	9°48	2°49	12°32	9°23	10°46	0°24	15°19
T30	6 35 37	8°44'05	12♉39	15°42	8°52	15° 8	27°24	9°52	9°49	2°48	12°33	9°D23	10°43	0°30	15°25
W31	6 39 33	9♉45'14	26♉36	17♉20	8♉16	15♉51	27♉35	9♉57	9♉49	2♉47	12♉34	9♉23	10♉40	0♉37	15♉31

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