

SWISS EPHEMERIS for the year 2182

JANUARY 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
T 1	6 43 31	10°34'20"	15♐41	21♏17	28♐41	29♏46	23♐13	2°R34	10♐59	12♏25	27°R29	25°R51	24♏59	18♏47	21°R54	
W 2	6 47 28	11°43'29"	29°56'	21°27'	29°20'	0♏30	23°14'	2♐29	11° 0'	12°27'	27♏28	25♏48	24°56'	18°54'	21♏52	
T 3	6 51 24	12°44'39"	14♏40	21°46'	0♏ 0'	1°15'	23°15'	2°25'	11° 0'	12°28'	27°26'	25°41'	24°52'	19° 1'	21°51'	
F 4	6 55 21	13°45'49"	29°46'	22°12'	0°41'	2° 0'	23°16'	2°20'	11° 1'	12°29'	27°25'	25°32'	24°49'	19° 8'	21°49'	
S 5	6 59 17	14°47'00"	15♏ 6'	22°44'	1°23'	2°44'	23°17'	2°16'	11° 2'	12°31'	27°24'	25°21'	24°46'	19°14'	21°47'	
S 6	7 3 14	15°48'10"	0♏27	23°23'	2° 7'	3°29'	23°17'	2°11'	11° 3'	12°32'	27°22'	25° 9'	24°43'	19°21'	21°46'	
M 7	7 7 11	16°49'20"	15°39'	24° 7'	2°51'	4°14'	23°R17	2° 6'	11° 4'	12°34'	27°21'	24°58'	24°40'	19°28'	21°44'	
T 8	7 11 7	17°50'30"	0♏31	24°56'	3°37'	4°59'	23°17'	2° 2'	11° 5'	12°35'	27°20'	24°50'	24°36'	19°34'	21°43'	
W 9	7 15 4	18°51'40"	14°56'	25°49'	4°23'	5°43'	23°17'	1°57'	11° 6'	12°37'	27°19'	24°44'	24°33'	19°41'	21°42'	
T 10	7 19 0	19°52'49"	28°51'	26°46'	5°10'	6°28'	23°17'	1°52'	11° 7'	12°38'	27°17'	24°40'	24°30'	19°48'	21°40'	
F 11	7 22 57	20°53'58"	12♐18	27°47'	5°58'	7°13'	23°16'	1°48'	11° 8'	12°40'	27°16'	24°39'	24°27'	19°55'	21°39'	
S 12	7 26 53	21°55'06"	25°18'	28°50'	6°47'	7°58'	23°15'	1°43'	11° 9'	12°41'	27°15'	24°39'	24°24'	20° 1'	21°38'	
S 13	7 30 50	22°56'14"	7♏57	29°56'	7°37'	8°43'	23°14'	1°38'	11°10'	12°43'	27°13'	24°39'	24°21'	20° 8'	21°37'	
M14	7 34 46	23°57'21"	20°18'	1♏ 5'	8°28'	9°28'	23°13'	1°33'	11°12'	12°44'	27°12'	24°37'	24°17'	20°15'	21°36'	
T 15	7 38 43	24°58'28"	2♐27	2°15'	9°19'	10°13'	23°12'	1°28'	11°13'	12°46'	27°11'	24°33'	24°14'	20°22'	21°35'	
W16	7 42 39	25°59'35"	14°28'	3°28'	10°11'	10°59'	23°10'	1°23'	11°14'	12°48'	27°10'	24°25'	24°11'	20°28'	21°34'	
T 17	7 46 36	27° 0'41"	26°23'	4°42'	11° 4'	11°44'	23° 8'	1°18'	11°16'	12°50'	27° 8'	24°15'	24° 8'	20°35'	21°33'	
F 18	7 50 33	28° 1'46"	8♏16	5°58'	11°58'	12°29'	23° 7'	1°13'	11°17'	12°51'	27° 7'	24° 2'	24° 5'	20°42'	21°32'	
S 19	7 54 29	29° 2'51"	20° 8'	7°16'	12°52'	13°14'	23° 4'	1° 8'	11°19'	12°53'	27° 6'	23°48'	24° 2'	20°48'	21°31'	
S 20	7 58 26	0♏ 3'55"	2♐ 1'	8°35'	13°47'	14° 0'	23° 2'	1° 4'	11°20'	12°55'	27° 4'	23°32'	23°58'	20°55'	21°31'	
M21	8 2 22	1° 4'58"	13°57'	9°55'	14°42'	14°45'	23° 0'	0°59'	11°22'	12°57'	27° 3'	23°18'	23°55'	21° 2'	21°30'	
T 22	8 6 19	2° 6'02"	25°55'	11°16'	15°38'	15°30'	22°57'	0°54'	11°23'	12°58'	27° 2'	23° 5'	23°52'	21° 9'	21°30'	
W23	8 10 15	3° 7'04"	7♐59	12°38'	16°35'	16°16'	22°54'	0°49'	11°25'	13° 0'	27° 0'	22°55'	23°49'	21°15'	21°29'	
T 24	8 14 12	4° 8'06"	20° 9'	14° 2'	17°32'	17° 1'	22°51'	0°44'	11°27'	13° 2'	26°59'	22°48'	23°46'	21°22'	21°29'	
F 25	8 18 8	5° 9'08"	2♏29	15°26'	18°30'	17°47'	22°48'	0°39'	11°29'	13° 4'	26°58'	22°44'	23°42'	21°29'	21°28'	
S 26	8 22 5	6°10'09"	15° 2'	16°51'	19°28'	18°32'	22°44'	0°34'	11°30'	13° 6'	26°57'	22°42'	23°39'	21°36'	21°28'	
S 27	8 26 2	7°11'10"	27°52'	18°17'	20°26'	19°18'	22°41'	0°29'	11°32'	13° 8'	26°55'	22°D42	23°36'	21°42'	21°28'	
M28	8 29 58	8°12'10"	11♐ 3'	19°44'	21°25'	20° 3'	22°37'	0°24'	11°34'	13°10'	26°54'	22°R42	23°33'	21°49'	21°28'	
T 29	8 33 55	9°13'10"	24°38'	21°12'	22°25'	20°49'	22°33'	0°19'	11°36'	13°12'	26°53'	22°41'	23°30'	21°56'	21°28'	
W30	8 37 51	10°14'10"	8♏40	22°40'	23°25'	21°35'	22°29'	0°15'	11°38'	13°14'	26°51'	22°38'	23°27'	22° 2'	21°D28	
T 31	8 41 48	11°15'09"	23♏ 8'	24♏ 9'	24♏25'	22♏20'	22♐25'	0♐10'	11°40'	13♏16'	26♏50'	22♏33'	23♏23'	22♏ 9'	21♏28	

Delta T = 386.23 sec.

FEBRUARY 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
F 1	8 45 44	12°16'07"	8♏ 0'	25♏39'	25♏26'	23♏ 6'	22°R20	0°R 5'	11°42'	13♏18'	26°R49'	22°R25'	23♏20'	22♏16'	21♏28	
S 2	8 49 41	13°17'04"	23° 9'	27°10'	26°27'	23°52'	22♐16'	0♐ 0'	11°44'	13°20'	26♏48'	22♏15'	23°17'	22°23'	21°28	
S 3	8 53 38	14°18'01"	8♏26	28°41'	27°29'	24°38'	22°11'	29♏55'	11°46'	13°22'	26°46'	22° 4'	23°14'	22°29'	21°28	
M 4	8 57 34	15°18'57"	23°38'	0♏13	28°31'	25°24'	22° 6'	29°51'	11°49'	13°24'	26°45'	21°54'	23°11'	22°36'	21°28	
T 5	9 1 31	16°19'51"	8♏35	1°46'	29°33'	26°10'	22° 1'	29°46'	11°51'	13°26'	26°44'	21°46'	23° 8'	22°43'	21°29	
W 6	9 5 27	17°20'44"	23° 9'	3°19'	0♏36	26°55'	21°55'	29°42'	11°53'	13°28'	26°43'	21°40'	23° 4'	22°49'	21°29	
T 7	9 9 24	18°21'36"	7♐15	4°54'	1°39'	27°41'	21°50'	29°37'	11°56'	13°30'	26°42'	21°37'	23° 1'	22°56'	21°30	
F 8	9 13 20	19°22'27"	20°52'	6°29'	2°42'	28°27'	21°44'	29°32'	11°58'	13°32'	26°40'	21°D36	22°58'	23° 3'	21°30	
S 9	9 17 17	20°23'16"	4♏ 0'	8° 4'	3°45'	29°13'	21°39'	29°28'	12° 0'	13°34'	26°39'	21°36'	22°55'	23°10'	21°31	
S 10	9 21 13	21°24'04"	16°44'	9°41'	4°49'	29°59'	21°33'	29°24'	12° 3'	13°36'	26°38'	21°R37	22°52'	23°16'	21°32	
M11	9 25 10	22°24'50"	29° 8'	11°18'	5°53'	0♏45	21°27'	29°19'	12° 5'	13°38'	26°37'	21°37'	22°48'	23°23'	21°32	
T 12	9 29 6	23°25'35"	11♐17	12°56'	6°57'	1°32'	21°21'	29°15'	12° 8'	13°41'	26°36'	21°35'	22°45'	23°30'	21°33	
W13	9 33 3	24°26'18"	23°15'	14°35'	8° 2'	2°18'	21°15'	29°11'	12°10'	13°43'	26°34'	21°31'	22°42'	23°37'	21°34	
T 14	9 37 0	25°26'59"	5♏ 8'	16°15'	9° 7'	3° 4'	21° 8'	29° 7'	12°13'	13°45'	26°33'	21°24'	22°39'	23°43'	21°35	
F 15	9 40 56	26°27'40"	16°59'	17°55'	10°12'	3°50'	21° 2'	29° 2'	12°15'	13°47'	26°32'	21°15'	22°36'	23°50'	21°36	
S 16	9 44 53	27°28'18"	28°51'	19°36'	11°17'	4°36'	20°55'	28°58'	12°18'	13°49'	26°31'	21° 5'	22°33'	23°57'	21°37	
S 17	9 48 49	28°28'55"	10♐47	21°19'	12°23'	5°22'	20°48'	28°54'	12°21'	13°52'	26°30'	20°54'	22°29'	24° 3'	21°38	
M18	9 52 46	29°29'31"	22°48'	23° 2'	13°28'	6° 9'	20°42'	28°51'	12°23'	13°54'	26°29'	20°44'	22°26'	24°10'	21°40	
T 19	9 56 42	0♏30'05"	4♐55	24°45'	14°34'	6°55'	20°35'	28°47'	12°26'	13°56'	26°28'	20°35'	22°23'	24°17'	21°41	
W20	10 0 39	1°30'37"	17°10'	26°30'	15°41'	7°41'	20°28'	28°43'	12°29'	13°58'	26°27'	20°28'	22°20'	24°24'	21°42	
T 21	10 4 35	2°31'08"	29°33'	28°16'	16°47'	8°28'	20°21'	28°39'	12°32'	14° 1'	26°26'	20°23'	22°17'	24°30'	21°44	
F 22	10 8 32	3°31'38"	12♐ 7'	0♏ 3'	17°54'	9°14'	20°14'	28°36'	12°34'	14° 3'	26°25'	20°21'	22°13'	24°37'	21°45	
S 23	10 12 29	4°32'06"	24°52'	1°50'	19° 0'	10° 0'	20° 6'	28°32'	12°37'	14° 5'	26°24'	20°D21	22°10'	24°44'	21°47	
S 24	10 16 25	5°32'33"	7♐51	3°38'	20° 7'	10°47'	19°59'	28°29'	12°40'	14° 7'	26°23'	20°22'	22° 7'	24°50'	21°48	
M25	10 20 22	6°32'59"	21° 5'	5°28'	21°14'	11°33'	19°51'	28°25'	12°43'	14°10'	26°22'	20°23'	22° 4'	24°57'	21°50	
T 26	10 24 18	7°33'23"	4♏38	7°18'	22°22'	12°20'	19°44'	28°22'	12°46'	14°12'	26°21'	20°R24	22° 1'	25° 4'	21°51	
W27	10 28 15	8°33'47"	18°31'	9° 9'	23°29'	13° 6'	19°36'	28°19'	12°49'	14°14'	26°20'	20°24'	21°58'	25°11'	21°53	
T 28	10 32 11	9♏34'08"	2♏45	11♏ 1'	24♏37'	13♏53'	19♐29'	28♏16'	12°52'	14♏16'	26♏19'	20♏22'	21♏54'	25♏17'	21♏55	

Delta T = 386.42 sec.

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SWISS EPHEMERIS for the year 2182

MARCH 2182

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	10 36 8	10 H 34'29	17 Z 16	12 H 54	25 Z 45	14 H 39	19 R 21	28 R 13	12 V 55	14 H 19	26 R 18	20 R 18	21 H 51	25 H 24	21 H 57	
S 2	10 40 4	11 H 34'48	2 H 2	14 H 47	26 Z 52	15 Z 26	19 H 14	28 H 10	12 Z 58	14 Z 21	26 H 17	20 H 12	21 H 48	25 Z 31	21 Z 59	
S 3	10 44 1	12 H 35'05	16 H 56	16 H 41	28 H 1	16 H 12	19 H 6	28 H 7	13 H 1	14 Z 23	26 H 17	20 H 7	21 H 45	25 Z 38	22 H 1	
M 4	10 47 58	13 H 35'21	1 H 49	18 H 36	29 H 9	16 H 59	18 H 58	28 H 4	13 H 4	14 Z 25	26 H 16	20 H 1	21 H 42	25 Z 44	22 H 3	
T 5	10 51 54	14 H 35'35	16 H 33	20 H 31	0 H 17	17 H 45	18 H 50	28 H 2	13 H 7	14 Z 28	26 H 15	19 H 56	21 H 39	25 Z 51	22 H 5	
W 6	10 55 51	15 H 35'47	1 V 0	22 H 26	1 Z 26	18 H 32	18 H 42	27 H 59	13 H 10	14 Z 30	26 H 14	19 H 53	21 H 35	25 Z 58	22 H 7	
T 7	10 59 47	16 H 35'58	15 H 6	24 H 22	2 Z 34	19 H 19	18 H 35	27 H 57	13 H 13	14 Z 32	26 H 13	19 D 52	21 H 32	26 H 4	22 H 9	
F 8	11 3 44	17 H 36'06	28 H 45	26 H 17	3 Z 43	20 H 5	18 H 27	27 H 55	13 H 17	14 Z 35	26 H 13	19 H 52	21 H 29	26 H 11	22 H 12	
S 9	11 7 40	18 H 36'12	12 H 0	28 H 12	4 Z 52	20 H 52	18 H 19	27 H 52	13 H 20	14 Z 37	26 H 12	19 H 53	21 H 26	26 H 18	22 H 14	
S 10	11 11 37	19 H 36'17	24 H 50	0 V 7	6 H 1	21 H 39	18 H 11	27 H 50	13 H 23	14 Z 39	26 H 11	19 H 55	21 H 23	26 H 25	22 H 16	
M11	11 15 33	20 H 36'19	7 H 19	2 H 0	7 H 10	22 H 25	18 H 3	27 H 48	13 H 26	14 Z 41	26 H 10	19 H 56	21 H 19	26 H 31	22 H 19	
T 12	11 19 30	21 H 36'19	19 Z 32	3 H 53	8 H 19	23 H 12	17 H 55	27 H 46	13 H 29	14 Z 44	26 H 10	19 R 57	21 H 16	26 H 38	22 H 21	
W13	11 23 27	22 H 36'17	1 H 33	5 H 43	9 Z 28	23 H 59	17 H 48	27 H 44	13 H 33	14 Z 46	26 H 9	19 H 57	21 H 13	26 H 45	22 H 24	
T 14	11 27 23	23 H 36'13	13 H 27	7 H 32	10 H 37	24 H 45	17 H 40	27 H 43	13 H 36	14 Z 48	26 H 8	19 H 55	21 H 10	26 H 52	22 H 26	
F 15	11 31 20	24 H 36'07	25 H 19	9 H 18	11 H 47	25 Z 32	17 H 32	27 H 41	13 H 39	14 Z 50	26 H 8	19 H 52	21 H 7	26 H 58	22 H 29	
S 16	11 35 16	25 H 35'58	7 H 12	11 H 1	12 Z 56	26 H 19	17 H 24	27 H 40	13 H 42	14 Z 53	26 H 7	19 H 49	21 H 4	27 H 5	22 H 32	
S 17	11 39 13	26 H 35'47	19 H 11	12 H 41	14 H 6	27 H 5	17 H 17	27 H 38	13 H 46	14 Z 55	26 H 7	19 H 45	21 H 0	27 H 12	22 H 34	
M18	11 43 9	27 H 35'35	1 H 17	14 H 16	15 H 16	27 Z 52	17 H 9	27 H 37	13 H 49	14 Z 57	26 H 6	19 H 41	20 H 57	27 H 18	22 H 37	
T 19	11 47 6	28 H 35'20	13 H 34	15 H 47	16 H 25	28 H 39	17 H 1	27 H 36	13 H 52	14 Z 59	26 H 6	19 H 38	20 H 54	27 H 25	22 H 40	
W20	11 51 2	29 H 35'03	26 H 2	17 H 14	17 H 35	29 Z 26	16 H 54	27 H 35	13 H 56	15 H 2	26 H 5	19 H 35	20 H 51	27 H 32	22 H 43	
T 21	11 54 59	0 V 34'44	8 H 43	18 H 34	18 H 45	0 H 12	16 H 46	27 H 34	13 H 59	15 H 4	26 H 5	19 H 34	20 H 48	27 H 39	22 H 46	
F 22	11 58 55	1 H 34'23	21 H 36	19 H 49	19 H 55	0 H 59	16 H 39	27 H 33	14 H 2	15 H 6	26 H 4	19 D 33	20 H 44	27 H 45	22 H 49	
S 23	12 2 52	2 H 34'00	4 H 43	20 H 58	21 H 5	1 H 46	16 H 32	27 H 32	14 H 6	15 H 8	26 H 4	19 H 34	20 H 41	27 H 52	22 H 52	
S 24	12 6 49	3 H 33'35	18 H 2	22 H 0	22 H 16	2 H 33	16 H 25	27 H 31	14 H 9	15 H 10	26 H 3	19 H 35	20 H 38	27 H 59	22 H 55	
M25	12 10 45	4 H 33'09	1 H 34	22 H 55	23 H 26	3 H 19	16 H 17	27 H 31	14 H 13	15 H 13	26 H 3	19 H 36	20 H 35	28 H 5	22 H 58	
T 26	12 14 42	5 H 32'41	15 H 18	23 H 43	24 H 36	4 H 6	16 H 10	27 H 31	14 H 16	15 H 15	26 H 3	19 H 37	20 H 32	28 H 12	23 H 1	
W27	12 18 38	6 H 32'11	29 H 14	24 H 23	25 H 47	4 H 53	16 H 3	27 H 30	14 H 19	15 H 17	26 H 2	19 H 38	20 H 29	28 H 19	23 H 4	
T 28	12 22 35	7 H 31'40	13 H 22	24 H 56	26 H 57	5 H 40	15 H 56	27 H 30	14 H 23	15 H 19	26 H 2	19 R 38	20 H 25	28 H 26	23 H 7	
F 29	12 26 31	8 H 31'07	27 H 39	25 H 21	28 H 8	6 H 27	15 H 50	27 D 30	14 H 26	15 H 21	26 H 2	19 H 38	20 H 22	28 H 32	23 H 10	
S 30	12 30 28	9 H 30'32	12 H 2	25 H 38	29 H 19	7 H 13	15 H 43	27 H 30	14 H 30	15 H 23	26 H 2	19 H 37	20 H 19	28 H 39	23 H 14	
S 31	12 34 24	10 V 29'55	26 H 28	25 V 48	0 H 29	8 H 0	15 H 36	27 Z 30	14 V 33	15 H 25	26 H 1	19 H 36	20 H 16	28 H 46	23 H 17	

Delta T = 386.59 sec.

APRIL 2182

00:00 UT

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

SWISS EPHEMERIS for the year 2182

MAY 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	14 36 38	10♄53'55	18♃20	16♃4	7♃23	2♃6	13°R25	28♄28	16♃17	16♃22	26♄7	19°R34	18♄37	2♄14	25♃15								
T 2	14 40 34	11°52'15	1♄46	16°37	8°35	2°52	13♃23	28°31	16°20	16°24	26°7	19♄33	18°34	2°21	25°19								
F 3	14 44 31	12°50'34	14°58	17°14	9°46	3°38	13°22	28°35	16°23	16°25	26°8	19°32	18°31	2°28	25°23								
S 4	14 48 27	13°48'52	27°55	17°55	10°58	4°25	13°21	28°39	16°27	16°27	26°9	19°29	18°28	2°34	25°28								
S 5	14 52 24	14°47'07	10♃37	18°40	12°10	5°11	13°20	28°42	16°30	16°28	26°9	19°25	18°25	2°41	25°32								
M 6	14 56 20	15°45'21	23°4	19°28	13°22	5°57	13°19	28°46	16°33	16°30	26°10	19°21	18°21	2°48	25°36								
T 7	15 0 17	16°43'33	5♄18	20°19	14°35	6°43	13°19	28°50	16°36	16°31	26°11	19°17	18°18	2°54	25°40								
W 8	15 4 13	17°41'42	17°21	21°14	15°47	7°29	13°18	28°54	16°39	16°32	26°11	19°13	18°15	3°1	25°44								
T 9	15 8 10	18°39'50	29°17	22°12	16°59	8°16	13°18	28°58	16°42	16°34	26°12	19°10	18°12	3°8	25°49								
F 10	15 12 7	19°37'56	11♂10	23°13	18°11	9°2	13°D18	29°3	16°45	16°35	26°13	19°8	18°9	3°15	25°53								
S 11	15 16 3	20°36'00	23°4	24°16	19°23	9°48	13°18	29°7	16°48	16°36	26°14	19°D8	18°6	3°21	25°57								
S 12	15 20 0	21°34'02	5♃3	25°23	20°35	10°34	13°18	29°11	16°51	16°37	26°14	19°9	18°2	3°28	26°1								
M13	15 23 56	22°32'03	17°13	26°32	21°47	11°20	13°19	29°16	16°54	16°39	26°15	19°10	17°59	3°35	26°6								
T 14	15 27 53	23°30'01	29°39	27°44	22°59	12°6	13°20	29°20	16°57	16°40	26°16	19°12	17°56	3°41	26°10								
W15	15 31 49	24°27'58	12♄23	28°58	24°11	12°52	13°20	29°25	17°0	16°41	26°17	19°13	17°53	3°48	26°14								
T 16	15 35 46	25°25'52	25°30	0♄15	25°24	13°38	13°22	29°30	17°3	16°42	26°18	19°R13	17°50	3°55	26°18								
F 17	15 39 42	26°23'46	9♃0	1°34	26°36	14°23	13°23	29°34	17°5	16°43	26°19	19°12	17°47	4°2	26°23								
S 18	15 43 39	27°21'37	22°52	2°56	27°48	15°9	13°24	29°39	17°8	16°44	26°20	19°8	17°43	4°8	26°27								
S 19	15 47 36	28°19'28	7♂4	4°20	29°0	15°55	13°26	29°44	17°11	16°45	26°20	19°3	17°40	4°15	26°31								
M20	15 51 32	29°17'16	21°31	5°46	0♄13	16°41	13°28	29°49	17°14	16°46	26°21	18°58	17°37	4°22	26°35								
T 21	15 55 29	0♃15'04	6♄	7°15	1°25	17°26	13°30	29°54	17°17	16°47	26°22	18°51	17°34	4°28	26°40								
W22	15 59 25	1°12'50	20°42	8°46	2°37	18°12	13°32	29°59	17°19	16°48	26°23	18°46	17°31	4°35	26°44								
T 23	16 3 22	2°10'35	5♄14	10°19	3°50	18°58	13°34	0♄5	17°22	16°49	26°24	18°42	17°27	4°42	26°48								
F 24	16 7 18	3°8'19	19°36	11°55	5°2	19°43	13°36	0°10	17°25	16°50	26°25	18°39	17°24	4°49	26°52								
S 25	16 11 15	4°6'02	3♃46	13°32	6°14	20°29	13°39	0°15	17°27	16°50	26°27	18°D38	17°21	4°55	26°57								
S 26	16 15 11	5°3'44	17°42	15°12	7°27	21°14	13°42	0°21	17°30	16°51	26°28	18°39	17°18	5°2	27°1								
M27	16 19 8	6°1'25	1♃23	16°54	8°39	22°0	13°45	0°26	17°32	16°52	26°29	18°40	17°15	5°9	27°5								
T 28	16 23 5	6°59'05	14°50	18°39	9°52	22°45	13°48	0°32	17°35	16°53	26°30	18°R41	17°12	5°15	27°9								
W29	16 27 1	7°56'44	28°5	20°25	11°4	23°31	13°51	0°37	17°37	16°54	26°31	18°40	17°8	5°22	27°14								
T 30	16 30 58	8°54'22	11♂7	22°14	12°16	24°16	13°55	0°43	17°40	16°54	26°32	18°38	17°5	5°29	27°18								
F 31	16 34 54	9♃15'59	23♄58	24♄5	13♄29	25♃1	13♃58	0♄49	17♃42	16♃55	26♄33	18♄33	17♄2	5♄36	27♄22								

Delta T = 386.97 sec.

JUNE 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	16 38 51	10♃49'35	6♃38	25♄59	14♄41	25♃46	14♃2	0♄55	17♃44	16♃55	26♄34	18°R27	16♄59	5♄42	27♄26								
S 2	16 42 47	11°47'10	19°6	27°54	15°54	26°32	14°6	1°1	17°47	16°56	26°36	18♄18	16°56	5°49	27°30								
M 3	16 46 44	12°44'43	1♄24	29°51	17°6	27°17	14°10	1°7	17°49	16°57	26°37	18°8	16°53	5°56	27°35								
T 4	16 50 40	13°42'16	13°32	1♃51	18°19	28°2	14°15	1°13	17°51	16°57	26°38	17°58	16°49	6°3	27°39								
W 5	16 54 37	14°39'47	25°31	3°53	19°32	28°47	14°19	1°19	17°54	16°58	26°39	17°48	16°46	6°9	27°43								
T 6	16 58 34	15°37'17	7♄25	5°56	20°44	29°32	14°24	1°25	17°56	16°58	26°41	17°40	16°43	6°16	27°47								
F 7	17 2 30	16°34'46	19°16	8°1	21°57	0♄17	14°29	1°31	17°58	16°58	26°42	17°34	16°40	6°23	27°51								
S 8	17 6 27	17°32'14	1♃8	10°8	23°9	1°2	14°34	1°37	18°0	16°59	26°43	17°31	16°37	6°29	27°55								
S 9	17 10 23	18°29'41	13°5	12°16	24°22	1°46	14°39	1°44	18°2	16°59	26°44	17°29	16°33	6°36	27°59								
M10	17 14 20	19°27'06	25°13	14°26	25°35	2°31	14°44	1°50	18°4	16°59	26°46	17°D29	16°30	6°43	28°3								
T 11	17 18 16	20°24'30	7♄37	16°36	26°47	3°16	14°49	1°57	18°6	17°0	26°47	17°30	16°27	6°50	28°7								
W12	17 22 13	21°21'53	20°21	18°48	28°0	4°0	14°55	2°3	18°8	17°0	26°48	17°R30	16°24	6°56	28°11								
T 13	17 26 9	22°19'15	3♃30	20°59	29°12	4°45	15°0	2°10	18°10	17°0	26°50	17°29	16°21	7°3	28°15								
F 14	17 30 6	23°16'36	17°6	23°11	0♃25	5°30	15°6	2°16	18°12	17°0	26°51	17°26	16°18	7°10	28°19								
S 15	17 34 3	24°13'56	1♄10	25°23	1°38	6°14	15°12	2°23	18°14	17°1	26°53	17°20	16°14	7°16	28°23								
S 16	17 37 59	25°11'16	15°38	27°35	2°51	6°58	15°18	2°29	18°16	17°1	26°54	17°12	16°11	7°23	28°27								
M17	17 41 56	26°8'34	0♄26	29°46	4°3	7°43	15°25	2°36	18°17	17°1	26°55	17°3	16°8	7°30	28°31								
T 18	17 45 52	27°5'52	15°26	1♄57	5°16	8°27	15°31	2°43	18°19	17°1	26°57	16°53	16°5	7°37	28°35								
W19	17 49 49	28°3'10	0♄27	4°6	6°29	9°11	15°37	2°50	18°21	17°R1	26°58	16°44	16°2	7°43	28°39								
T 20	17 53 45	29°0'27	15°20	6°14	7°42	9°55	15°44	2°57	18°22	17°1	27°0	16°36	15°59	7°50	28°43								
F 21	17 57 42	29°57'43	29°58	8°21	8°54	10°40	15°51	3°3	18°24	17°1	27°1	16°31	15°55	7°57	28°47								
S 22	18 1 38	0♄55'00	14♃17	10°26	10°7	11°24	15°58	3°10	18°25	17°1	27°3	16°28	15°52	8°3	28°50								
S 23	18 5 35	1°52'16	28°14	12°29	11°20	12°8	16°5	3°17	18°27	17°1	27°4	16°D27	15°49	8°10	28°54								
M24	18 9 32	2°49'32	11♃50	14°31	12°33	12°51	16°12	3°24	18°28	17°0	27°6	16°R27	15°46	8°17	28°58								
T 25	18 13 28	3°46'47	25°7	16°30	13°46	13°35	16°19	3°31	18°30	17°0	27°7	16°27	15°43	8°24	29°2								
W26	18 17 25	4°44'03	8♄	6	18°28	14°59	14°19	3°39	18°31	17°0	27°9	16°25	15°39	8°30	29°5								
T 27	18 21 21	5°41'19	20°52	20°23	16°12	15°3	16°34	3°46	18°32	17°0	27°10	16°22	15°36	8°37	29°9								
F 28	18 25 18	6°38'34	3♃25	22°16	17°25	15°47	16°42	3°53	18°34	17°0	27°12	16°15	15°33	8°44	29°13								
S 29	18 29 14	7°35'49	15°49	24°7	18°38	16°30	16°50	4°0	18°35	16°59	27°13	16°5	15°30	8°50	29°16								
S 30	18 33 11	8♄33'04	28♃3	25♄56	19♃51	17♄14	16♃58	4♄7	18♃36	16♃59	27♄15	15♄54	15♄27	8♄57	29♄20								

Delta T = 387.16 sec.

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SWISS EPHEMERIS for the year 2182

JULY 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
M 1	18 37 8	9 ^h 30'19	10 ^h 10	27 ^h 43	21 ^h II 4	17 ^h 857	17 ^h 7 6	4 ^h 15	18 ^h 37	16 ^h R59	27 ^h 16	15 ^h R40	15 ^h 24	9 ^h 4	29 ^h 23
T 2	18 41 4	10 ^h 27'34	22 ^h 11	29 ^h 28	22 ^h 17	18 ^h 40	17 ^h 14	4 ^h 22	18 ^h 38	16 ^h 58	27 ^h 18	15 ^h 26	15 ^h 20	9 ^h 10	29 ^h 27
W 3	18 45 1	11 ^h 24'48	4 ^h 5	1 ^h 10	23 ^h 30	19 ^h 24	17 ^h 22	4 ^h 29	18 ^h 39	16 ^h 58	27 ^h 19	15 ^h 13	15 ^h 17	9 ^h 17	29 ^h 30
T 4	18 48 57	12 ^h 22'03	15 ^h 57	2 ^h 51	24 ^h 43	20 ^h 7	17 ^h 31	4 ^h 37	18 ^h 40	16 ^h 57	27 ^h 21	15 ^h 2	15 ^h 14	9 ^h 24	29 ^h 34
F 5	18 52 54	13 ^h 19'16	27 ^h 46	4 ^h 29	25 ^h 56	20 ^h 50	17 ^h 39	4 ^h 44	18 ^h 41	16 ^h 57	27 ^h 23	14 ^h 53	15 ^h 11	9 ^h 31	29 ^h 37
S 6	18 56 50	14 ^h 16'30	9 ^h 37	6 ^h 5	27 ^h 9	21 ^h 33	17 ^h 48	4 ^h 51	18 ^h 42	16 ^h 56	27 ^h 24	14 ^h 48	15 ^h 8	9 ^h 37	29 ^h 40
S 7	19 0 47	15 ^h 13'43	21 ^h 34	7 ^h 38	28 ^h 22	22 ^h 16	17 ^h 57	4 ^h 59	18 ^h 43	16 ^h 56	27 ^h 26	14 ^h 44	15 ^h 5	9 ^h 44	29 ^h 44
M 8	19 4 43	16 ^h 10'56	3 ^h 40	9 ^h 10	29 ^h 35	22 ^h 59	18 ^h 5	5 ^h 6	18 ^h 44	16 ^h 55	27 ^h 27	14 ^h 43	15 ^h 1	9 ^h 51	29 ^h 47
T 9	19 8 40	17 ^h 8'09	16 ^h 1	10 ^h 39	0 ^h 548	23 ^h 42	18 ^h 14	5 ^h 14	18 ^h 45	16 ^h 55	27 ^h 29	14 ^h 43	14 ^h 58	9 ^h 57	29 ^h 50
W10	19 12 36	18 ^h 5'21	28 ^h 42	12 ^h 6	2 ^h 2	24 ^h 25	18 ^h 23	5 ^h 21	18 ^h 45	16 ^h 54	27 ^h 31	14 ^h 43	14 ^h 55	10 ^h 4	29 ^h 53
T 11	19 16 33	19 ^h 2'33	11 ^h 47	13 ^h 30	3 ^h 15	25 ^h 8	18 ^h 32	5 ^h 29	18 ^h 46	16 ^h 53	27 ^h 32	14 ^h 41	14 ^h 52	10 ^h 11	29 ^h 56
F 12	19 20 30	19 ^h 59'46	25 ^h 21	14 ^h 53	4 ^h 28	25 ^h 50	18 ^h 42	5 ^h 36	18 ^h 47	16 ^h 53	27 ^h 34	14 ^h 38	14 ^h 49	10 ^h 18	0 ^h II 0
S 13	19 24 26	20 ^h 56'58	9 ^h 25	16 ^h 13	5 ^h 41	26 ^h 33	18 ^h 51	5 ^h 44	18 ^h 47	16 ^h 52	27 ^h 35	14 ^h 32	14 ^h 45	10 ^h 24	0 ^h 3
S 14	19 28 23	21 ^h 54'10	23 ^h 57	17 ^h 30	6 ^h 55	27 ^h 15	19 ^h 1	5 ^h 51	18 ^h 48	16 ^h 51	27 ^h 37	14 ^h 24	14 ^h 42	10 ^h 31	0 ^h 6
M15	19 32 19	22 ^h 51'22	8 ^h 53	18 ^h 45	8 ^h 8	27 ^h 58	19 ^h 10	5 ^h 59	18 ^h 48	16 ^h 50	27 ^h 39	14 ^h 14	14 ^h 39	10 ^h 38	0 ^h 9
T 16	19 36 16	23 ^h 48'34	24 ^h 5	19 ^h 58	9 ^h 21	28 ^h 40	19 ^h 20	6 ^h 7	18 ^h 49	16 ^h 50	27 ^h 40	14 ^h 3	14 ^h 36	10 ^h 44	0 ^h 12
W17	19 40 12	24 ^h 45'47	9 ^h 21	21 ^h 8	10 ^h 35	29 ^h 22	19 ^h 29	6 ^h 14	18 ^h 49	16 ^h 49	27 ^h 42	13 ^h 53	14 ^h 33	10 ^h 51	0 ^h 15
T 18	19 44 9	25 ^h 42'59	24 ^h 32	22 ^h 15	11 ^h 48	0 ^h II 4	19 ^h 39	6 ^h 22	18 ^h 49	16 ^h 48	27 ^h 43	13 ^h 45	14 ^h 30	10 ^h 58	0 ^h 17
F 19	19 48 6	26 ^h 40'13	9 ^h 26	23 ^h 19	13 ^h 1	0 ^h 46	19 ^h 49	6 ^h 30	18 ^h 50	16 ^h 47	27 ^h 45	13 ^h 39	14 ^h 26	11 ^h 5	0 ^h 20
S 20	19 52 2	27 ^h 37'26	23 ^h 59	24 ^h 21	14 ^h 15	1 ^h 28	19 ^h 59	6 ^h 37	18 ^h 50	16 ^h 46	27 ^h 47	13 ^h 36	14 ^h 23	11 ^h 11	0 ^h 23
S 21	19 55 59	28 ^h 34'41	8 ^h Y	25 ^h 20	15 ^h 28	2 ^h 10	20 ^h 9	6 ^h 45	18 ^h 50	16 ^h 45	27 ^h 48	13 ^h D35	14 ^h 20	11 ^h 18	0 ^h 26
M22	19 59 55	29 ^h 31'56	21 ^h 45	26 ^h 16	16 ^h 42	2 ^h 52	20 ^h 19	6 ^h 53	18 ^h 50	16 ^h 44	27 ^h 50	13 ^h 35	14 ^h 17	11 ^h 25	0 ^h 28
T 23	20 3 52	0 ^h 29'12	5 ^h 8	27 ^h 8	17 ^h 55	3 ^h 34	20 ^h 30	7 ^h 0	18 ^h 50	16 ^h 43	27 ^h 52	13 ^h R35	14 ^h 14	11 ^h 31	0 ^h 31
W24	20 7 48	1 ^h 26'29	17 ^h 55	27 ^h 58	19 ^h 9	4 ^h 15	20 ^h 40	7 ^h 8	18 ^h R50	16 ^h 42	27 ^h 53	13 ^h 34	14 ^h 11	11 ^h 38	0 ^h 34
T 25	20 11 45	2 ^h 23'46	0 ^h II 33	28 ^h 44	20 ^h 22	4 ^h 57	20 ^h 50	7 ^h 16	18 ^h 50	16 ^h 41	27 ^h 55	13 ^h 31	14 ^h 7	11 ^h 45	0 ^h 36
F 26	20 15 41	3 ^h 21'05	12 ^h 56	29 ^h 26	21 ^h 36	5 ^h 39	21 ^h 1	7 ^h 24	18 ^h 50	16 ^h 40	27 ^h 56	13 ^h 25	14 ^h 4	11 ^h 52	0 ^h 39
S 27	20 19 38	4 ^h 18'24	25 ^h 8	0 ^h 7 5	22 ^h 49	6 ^h 20	21 ^h 11	7 ^h 31	18 ^h 50	16 ^h 39	27 ^h 58	13 ^h 17	14 ^h 1	11 ^h 58	0 ^h 41
S 28	20 23 35	5 ^h 15'44	7 ^h 13	0 ^h 40	24 ^h 3	7 ^h 1	21 ^h 22	7 ^h 39	18 ^h 50	16 ^h 38	28 ^h 0	13 ^h 6	13 ^h 58	12 ^h 5	0 ^h 44
M29	20 27 31	6 ^h 13'04	19 ^h 11	1 ^h 10	25 ^h 17	7 ^h 42	21 ^h 33	7 ^h 47	18 ^h 50	16 ^h 37	28 ^h 1	12 ^h 54	13 ^h 55	12 ^h 12	0 ^h 46
T 30	20 31 28	7 ^h 10'26	1 ^h 5	1 ^h 37	26 ^h 30	8 ^h 24	21 ^h 44	7 ^h 55	18 ^h 49	16 ^h 35	28 ^h 3	12 ^h 42	13 ^h 51	12 ^h 18	0 ^h 48
W31	20 35 24	8 ^h 7'48	12 ^h 57	1 ^h 7 59	27 ^h 44	9 ^h II 5	21 ^h 54	8 ^h 2	18 ^h Y 49	16 ^h 34	28 ^h 4	12 ^h 30	13 ^h 48	12 ^h 25	0 ^h II 50

Delta T = 387.34 sec.

AUGUST 2182

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	20 39 21	9 ^h 5'11	24 ^h 47	2 ^h 7 17	28 ^h 58	9 ^h II 46	22 ^h 7 5	8 ^h 10	18 ^h R49	16 ^h R33	28 ^h 6	12 ^h R20	13 ^h 45	12 ^h 32	0 ^h II 53
F 2	20 43 17	10 ^h 2'34	6 ^h 38	2 ^h 30	0 ^h II 11	10 ^h 26	22 ^h 16	8 ^h 18	18 ^h Y 48	16 ^h 32	28 ^h 8	12 ^h 13	13 ^h 42	12 ^h 38	0 ^h 55
S 3	20 47 14	10 ^h 59'58	18 ^h 31	2 ^h 38	1 ^h 25	11 ^h 7	22 ^h 28	8 ^h 26	18 ^h 48	16 ^h 31	28 ^h 9	12 ^h 7	13 ^h 39	12 ^h 45	0 ^h 57
S 4	20 51 10	11 ^h 57'23	0 ^h 31	2 ^h R41	2 ^h 39	11 ^h 48	22 ^h 39	8 ^h 33	18 ^h 47	16 ^h 29	28 ^h 11	12 ^h 5	13 ^h 36	12 ^h 52	0 ^h 59
M 5	20 55 7	12 ^h 54'48	12 ^h 40	2 ^h 39	3 ^h 53	12 ^h 28	22 ^h 50	8 ^h 41	18 ^h 47	16 ^h 28	28 ^h 12	12 ^h D 4	13 ^h 32	12 ^h 59	1 ^h 0
T 6	20 59 3	13 ^h 52'14	25 ^h 2	2 ^h 31	5 ^h 6	13 ^h 9	23 ^h 1	8 ^h 49	18 ^h 46	16 ^h 27	28 ^h 14	12 ^h 4	13 ^h 29	13 ^h 5	1 ^h 3
W 7	21 3 0	14 ^h 49'41	7 ^h 41	2 ^h 19	6 ^h 20	13 ^h 49	23 ^h 13	8 ^h 56	18 ^h 46	16 ^h 25	28 ^h 15	12 ^h 5	13 ^h 26	13 ^h 12	1 ^h 5
T 8	21 6 57	15 ^h 47'08	20 ^h 43	2 ^h 1	7 ^h 34	14 ^h 29	23 ^h 24	9 ^h 4	18 ^h 45	16 ^h 24	28 ^h 17	12 ^h R 5	13 ^h 23	13 ^h 19	1 ^h 6
F 9	21 10 53	16 ^h 44'37	4 ^h 11	1 ^h 38	8 ^h 48	15 ^h 10	23 ^h 36	9 ^h 12	18 ^h 44	16 ^h 23	28 ^h 19	12 ^h 4	13 ^h 20	13 ^h 25	1 ^h 8
S 10	21 14 50	17 ^h 42'05	18 ^h 7	1 ^h 10	10 ^h 2	15 ^h 50	23 ^h 47	9 ^h 20	18 ^h 43	16 ^h 21	28 ^h 20	12 ^h 0	13 ^h 16	13 ^h 32	1 ^h 10
S 11	21 18 46	18 ^h 39'35	2 ^h 33	0 ^h 37	11 ^h 16	16 ^h 29	23 ^h 59	9 ^h 27	18 ^h 43	16 ^h 20	28 ^h 22	11 ^h 55	13 ^h 13	13 ^h 39	1 ^h 11
M12	21 22 43	19 ^h 37'06	17 ^h 21	0 ^h 0	12 ^h 30	17 ^h 9	24 ^h 10	9 ^h 35	18 ^h 42	16 ^h 18	28 ^h 23	11 ^h 48	13 ^h 10	13 ^h 45	1 ^h 13
T 13	21 26 39	20 ^h 34'37	2 ^h 29	29 ^h 19	13 ^h 44	17 ^h 49	24 ^h 22	9 ^h 43	18 ^h 41	16 ^h 17	28 ^h 25	11 ^h 41	13 ^h 7	13 ^h 52	1 ^h 14
W14	21 30 36	21 ^h 32'09	17 ^h 46	28 ^h 35	14 ^h 58	18 ^h 29	24 ^h 34	9 ^h 50	18 ^h 40	16 ^h 16	28 ^h 26	11 ^h 33	13 ^h 4	13 ^h 59	1 ^h 16
T 15	21 34 33	22 ^h 29'42	3 ^h 1	27 ^h 48	16 ^h 12	19 ^h 8	24 ^h 46	9 ^h 58	18 ^h 39	16 ^h 14	28 ^h 28	11 ^h 27	13 ^h 1	14 ^h 6	1 ^h 17
F 16	21 38 29	23 ^h 27'17	4 ^h 18	26 ^h 59	17 ^h 26	19 ^h 48	24 ^h 57	10 ^h 5	18 ^h 38	16 ^h 13	28 ^h 29	11 ^h 23	12 ^h 57	14 ^h 12	1 ^h 19
S 17	21 42 26	24 ^h 24'53	2 ^h Y 46	26 ^h 10	18 ^h 40	20 ^h 27	25 ^h 9	10 ^h 13</							

SWISS EPHEMERIS for the year 2182

SEPTEMBER 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
S 1	22 41 34	8♍51'57	9♎47	21♏24	7♐13	0♑3	28♒14	12♓4	18°R15	15°R47	28♄52	10♅38	12♆7	16♇0	1♁32
M 2	22 45 30	9°49'57	22°5	22°1	8°28	0°40	28°26	12°12	18°Y14	15°X46	28°53	10°39	12°3	16°6	1°32
T 3	22 49 27	10°47'59	4♌36	22°46	9°42	1°17	28°39	12°19	18°12	15°44	28°54	10°40	12°0	16°13	1°32
W 4	22 53 24	11°46'02	17°21	23°38	10°57	1°54	28°51	12°26	18°10	15°43	28°56	10°42	11°57	16°20	1°33
T 5	22 57 20	12°44'07	0♈25	24°38	12°11	2°31	29°4	12°33	18°8	15°41	28°57	10°43	11°54	16°26	1°33
F 6	23 1 17	13°42'13	13°50	25°44	13°25	3°8	29°17	12°40	18°6	15°39	28°58	10°R44	11°51	16°33	1°R33
S 7	23 5 13	14°40'21	27°38	26°57	14°40	3°45	29°29	12°47	18°5	15°38	28°59	10°43	11°48	16°40	1°33
S 8	23 9 10	15°38'30	11♌50	28°16	15°54	4°21	29°42	12°54	18°3	15°36	29°0	10°41	11°44	16°46	1°33
M 9	23 13 6	16°36'40	26°23	29°41	17°9	4°58	29°55	13°1	18°1	15°34	29°2	10°39	11°41	16°53	1°32
T 10	23 17 3	17°34'52	11♍14	1♐10	18°23	5°34	0♎8	13°8	17°59	15°33	29°3	10°36	11°38	17°0	1°32
W11	23 20 59	18°33'05	26°15	2°44	19°38	6°10	0°21	13°14	17°57	15°31	29°4	10°33	11°35	17°6	1°32
T 12	23 24 56	19°31'20	11♋19	4°22	20°52	6°46	0°33	13°21	17°55	15°29	29°5	10°30	11°32	17°13	1°32
F 13	23 28 53	20°29'36	26°16	6°3	22°7	7°22	0°46	13°28	17°53	15°28	29°6	10°29	11°28	17°20	1°31
S 14	23 32 49	21°27'55	10♍57	7°48	23°21	7°58	0°59	13°35	17°51	15°26	29°7	10°D29	11°25	17°27	1°31
S 15	23 36 46	22°26'15	25°17	9°34	24°36	8°33	1°12	13°41	17°48	15°24	29°8	10°29	11°22	17°33	1°30
M16	23 40 42	23°24'37	9♉12	11°23	25°51	9°9	1°25	13°48	17°46	15°23	29°9	10°30	11°19	17°40	1°30
T 17	23 44 39	24°23'02	22°40	13°13	27°5	9°44	1°38	13°54	17°44	15°21	29°10	10°31	11°16	17°47	1°29
W18	23 48 35	25°21'28	5♐44	15°4	28°20	10°19	1°51	14°1	17°42	15°19	29°11	10°32	11°13	17°53	1°28
T 19	23 52 32	26°19'57	18°24	16°55	29°34	10°54	2°4	14°7	17°40	15°18	29°12	10°33	11°9	18°0	1°27
F 20	23 56 28	27°18'28	0♄46	18°48	0♎49	11°28	2°17	14°14	17°38	15°16	29°13	10°R33	11°6	18°7	1°26
S 21	0 0 25	28°17'01	12°54	20°40	2°4	12°3	2°29	14°20	17°35	15°15	29°14	10°33	11°3	18°13	1°26
S 22	0 4 21	29°15'36	24°52	22°33	3°18	12°37	2°42	14°26	17°33	15°13	29°15	10°32	11°0	18°20	1°25
M23	0 8 18	0♎14'13	6♏44	24°25	4°33	13°12	2°55	14°32	17°31	15°11	29°16	10°31	10°57	18°27	1°24
T 24	0 12 15	1°12'53	18°34	26°17	5°48	13°46	3°8	14°39	17°28	15°10	29°17	10°29	10°53	18°34	1°22
W25	0 16 11	2°11'34	0♐26	28°9	7°2	14°19	3°21	14°45	17°26	15°8	29°18	10°28	10°50	18°40	1°21
T 26	0 20 8	3°10'18	12°23	0♎0	8°17	14°53	3°34	14°51	17°24	15°7	29°19	10°27	10°47	18°47	1°20
F 27	0 24 4	4°9'03	24°27	1°50	9°32	15°26	3°47	14°57	17°21	15°5	29°20	10°26	10°44	18°54	1°19
S 28	0 28 1	5°7'51	6♎39	3°39	10°47	16°0	4°0	15°3	17°19	15°4	29°20	10°D26	10°41	19°0	1°17
S 29	0 31 57	6°6'41	19°2	5°28	12°1	16°33	4°13	15°8	17°17	15°2	29°21	10°26	10°38	19°7	1°16
M30	0 35 54	7°5'32	1♌37	7°16	13°16	17°6	4°26	15°14	17°Y14	15°X1	29°22	10°26	10°34	19°14	1°15

Delta T = 387.72 sec.

OCTOBER 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
T 1	0 39 50	8♎4'26	14♌24	9♎3	14♎31	17♏38	4♐39	15♏20	17°R12	14°R59	29°23	10♅27	10♆31	19♇20	1°R13
W 2	0 43 47	9°3'21	27°26	10°49	15°46	18°11	4°52	15°26	17°Y10	14°X58	29°23	10°27	10°28	19°27	1°II12
T 3	0 47 44	10°2'18	10♈42	12°35	17°0	18°43	5°5	15°31	17°7	14°56	29°24	10°27	10°25	19°34	1°10
F 4	0 51 40	11°1'17	24°13	14°19	18°15	19°15	5°18	15°37	17°5	14°55	29°25	10°R27	10°22	19°40	1°8
S 5	0 55 37	12°0'18	8♌3	16°3	19°30	19°47	5°31	15°42	17°2	14°53	29°25	10°D27	10°19	19°47	1°6
S 6	0 59 33	12°59'20	22°2	17°45	20°45	20°18	5°44	15°47	17°0	14°52	29°26	10°27	10°15	19°54	1°5
M 7	1 3 30	13°58'24	6♍19	19°27	21°59	20°50	5°57	15°53	16°58	14°51	29°27	10°27	10°12	20°1	1°3
T 8	1 7 26	14°57'30	20°48	21°8	23°14	21°21	6°10	15°58	16°55	14°49	29°27	10°27	10°9	20°7	1°1
W 9	1 11 23	15°56'37	5♋24	22°48	24°29	21°52	6°23	16°3	16°53	14°48	29°28	10°28	10°6	20°14	0°59
T 10	1 15 19	16°55'47	20°3	24°28	25°44	22°23	6°35	16°8	16°50	14°46	29°28	10°28	10°3	20°21	0°57
F 11	1 19 16	17°54'58	4♍39	26°6	26°59	22°53	6°48	16°13	16°48	14°45	29°29	10°R29	9°59	20°27	0°55
S 12	1 23 13	18°54'11	19°5	27°44	28°13	23°23	7°1	16°18	16°45	14°44	29°29	10°29	9°56	20°34	0°53
S 13	1 27 9	19°53'26	3♉16	29°21	29°28	23°53	7°14	16°23	16°43	14°43	29°30	10°28	9°53	20°41	0°51
M14	1 31 6	20°52'43	17°8	0♌57	0♌43	24°23	7°27	16°28	16°41	14°41	29°30	10°27	9°50	20°47	0°48
T 15	1 35 2	21°52'03	0♐37	2°33	1°58	24°53	7°40	16°32	16°38	14°40	29°31	10°26	9°47	20°54	0°46
W16	1 38 59	22°51'24	13°43	4°8	3°13	25°22	7°52	16°37	16°36	14°39	29°31	10°24	9°44	21°1	0°44
T 17	1 42 55	23°50'48	26°28	5°42	4°27	25°51	8°5	16°41	16°33	14°38	29°31	10°22	9°40	21°7	0°42
F 18	1 46 52	24°50'15	8♄53	7°16	5°42	26°19	8°18	16°46	16°31	14°36	29°32	10°21	9°37	21°14	0°39
S 19	1 50 48	25°49'43	21°3	8°49	6°57	26°48	8°30	16°50	16°29	14°35	29°32	10°D21	9°34	21°21	0°37
S 20	1 54 45	26°49'14	3♏1	10°21	8°12	27°16	8°43	16°54	16°26	14°34	29°32	10°21	9°31	21°27	0°34
M21	1 58 41	27°48'47	14°53	11°52	9°27	27°44	8°56	16°58	16°24	14°33	29°32	10°21	9°28	21°34	0°32
T 22	2 2 38	28°48'22	26°44	13°23	10°41	28°11	9°8	17°2	16°21	14°32	29°33	10°23	9°24	21°41	0°29
W23	2 6 35	29°48'00	8♐37	14°53	11°56	28°39	9°21	17°6	16°19	14°31	29°33	10°24	9°21	21°48	0°26
T 24	2 10 31	0♌47'40	20°38	16°23	13°11	29°6	9°34	17°10	16°17	14°30	29°33	10°26	9°18	21°54	0°24
F 25	2 14 28	1°47'22	2♎49	17°52	14°26	29°32	9°46	17°14	16°14	14°29	29°33	10°27	9°15	22°1	0°21
S 26	2 18 24	2°47'05	15°14	19°21	15°41	29°59	9°58	17°18	16°12	14°28	29°33	10°R27	9°12	22°8	0°18
S 27	2 22 21	3°46'52	27°53	20°48	16°56	0♏25	10°11	17°21	16°10	14°27	29°33	10°26	9°9	22°14	0°16
M28	2 26 17	4°46'40	10♌49	22°15	18°11	0°50	10°23	17°25	16°8	14°26	29°34	10°24	9°5	22°21	0°13
T 29	2 30 14	5°46'30	24°0	23°42	19°25	1°16	10°36	17°28	16°5	14°25	29°34	10°20	9°2	22°28	0°10
W30	2 34 10	6°46'22	7♈26	25°7	20°40	1°41	10°48	17°32	16°3	14°24	29°34	10°16	8°59	22°34	0°7
T 31	2 38 7	7♌46'15	21♈4	26♌32	21♌55	2♏5	11♎0	17♏35	16°Y1	14°X23	29°R34	10♎12	8♏56	22♏41	0♐4

Delta T = 387.91 sec.

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SWISS EPHEMERIS for the year 2182

NOVEMBER 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	2 42 4	8♁46'11	4♂53	27♁57	23♁10	2♁30	11♁12	17♁38	15°R59	14°R23	29°R34	10°R 8	8♁53	22♁48	0°R 1	
S 2	2 46 0	9°46'08	18°51	29°20	24°25	2°53	11°25	17°41	15°Y56	14°X22	29°E34	10♁ 5	8°50	22°54	29♁58	
S 3	2 49 57	10°46'07	2♁55	0♁43	25°40	3°17	11°37	17°44	15°54	14°21	29°33	10° 4	8°46	23° 1	29°55	
M 4	2 53 53	11°46'07	17° 4	2° 4	26°55	3°40	11°49	17°47	15°52	14°20	29°33	10°D 4	8°43	23° 8	29°52	
T 5	2 57 50	12°46'09	1♁15	3°25	28° 9	4° 3	12° 1	17°49	15°50	14°20	29°33	10° 5	8°40	23°14	29°49	
W 6	3 1 46	13°46'12	15°28	4°44	29°24	4°25	12°13	17°52	15°48	14°19	29°33	10° 6	8°37	23°21	29°46	
T 7	3 5 43	14°46'17	29°39	6° 3	0♁39	4°47	12°25	17°54	15°46	14°18	29°33	10° 7	8°34	23°28	29°43	
F 8	3 9 39	15°46'23	13°Y47	7°20	1°54	5° 9	12°37	17°57	15°44	14°18	29°33	10°R 8	8°30	23°34	29°40	
S 9	3 13 36	16°46'31	27°47	8°35	3° 9	5°30	12°48	17°59	15°42	14°17	29°32	10° 7	8°27	23°41	29°37	
S 10	3 17 33	17°46'41	11♁38	9°49	4°24	5°51	13° 0	18° 1	15°40	14°17	29°32	10° 3	8°24	23°48	29°34	
M11	3 21 29	18°46'53	25°14	11° 2	5°38	6°11	13°12	18° 3	15°38	14°16	29°32	9°58	8°21	23°55	29°31	
T 12	3 25 26	19°47'06	8♁33	12°12	6°53	6°31	13°24	18° 5	15°36	14°16	29°32	9°52	8°18	24° 1	29°28	
W13	3 29 22	20°47'22	21°35	13°20	8° 8	6°50	13°35	18° 7	15°34	14°15	29°31	9°44	8°15	24° 8	29°24	
T 14	3 33 19	21°47'39	4♁18	14°26	9°23	7° 9	13°47	18° 9	15°33	14°15	29°31	9°37	8°11	24°15	29°21	
F 15	3 37 15	22°47'58	16°43	15°29	10°38	7°27	13°58	18°11	15°31	14°15	29°31	9°31	8° 8	24°21	29°18	
S 16	3 41 12	23°48'19	28°53	16°28	11°53	7°45	14° 9	18°12	15°29	14°14	29°30	9°26	8° 5	24°28	29°15	
S 17	3 45 8	24°48'41	10♁52	17°25	13° 7	8° 3	14°21	18°14	15°27	14°14	29°30	9°22	8° 2	24°35	29°12	
M18	3 49 5	25°49'06	22°44	18°17	14°22	8°20	14°32	18°15	15°26	14°14	29°29	9°D21	7°59	24°41	29° 8	
T 19	3 53 2	26°49'32	4♁34	19° 5	15°37	8°36	14°43	18°16	15°24	14°13	29°29	9°21	7°56	24°48	29° 5	
W20	3 56 58	27°50'01	16°27	19°48	16°52	8°52	14°54	18°17	15°22	14°13	29°28	9°23	7°52	24°55	29° 2	
T 21	4 0 55	28°50'31	28°28	20°25	18° 7	9° 8	15° 5	18°18	15°21	14°13	29°28	9°24	7°49	25° 1	28°59	
F 22	4 4 51	29°51'03	10♁43	20°56	19°22	9°22	15°16	18°19	15°19	14°13	29°27	9°R24	7°46	25° 8	28°55	
S 23	4 8 48	0♁51'36	23°15	21°20	20°36	9°37	15°27	18°20	15°18	14°13	29°27	9°23	7°43	25°15	28°52	
S 24	4 12 44	1°52'12	6♁ 7	21°37	21°51	9°50	15°38	18°20	15°16	14°13	29°26	9°20	7°40	25°21	28°49	
M25	4 16 41	2°52'49	19°21	21°R44	23° 6	10° 3	15°49	18°21	15°15	14°D13	29°26	9°14	7°36	25°28	28°46	
T 26	4 20 37	3°53'27	2♁55	21°43	24°21	10°16	15°59	18°21	15°13	14°13	29°25	9° 6	7°33	25°35	28°43	
W27	4 24 34	4°54'07	16°49	21°31	25°36	10°28	16°10	18°22	15°12	14°13	29°24	8°57	7°30	25°41	28°39	
T 28	4 28 31	5°54'49	0♁56	21° 9	26°51	10°39	16°20	18°22	15°11	14°13	29°24	8°47	7°27	25°48	28°36	
F 29	4 32 27	6°55'31	15°12	20°36	28° 5	10°49	16°31	18°R22	15°10	14°13	29°23	8°38	7°24	25°55	28°33	
S 30	4 36 24	7♁56'15	29♁33	19♁52	29♁20	10♁59	16♁41	18♁22	15°Y 8	14°X13	29°E22	8♁31	7♁21	26♁ 1	28♁30	

Delta T = 388.10 sec.

DECEMBER 2182

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 40 20	8♁57'00	13♁51	18°R58	0♁35	11♁ 8	16♁51	18°R22	15°R 7	14°X13	29°R21	8°R26	7♁17	26♁ 8	28°R27	
M 2	4 44 17	9°57'45	28° 6	17♁54	1°50	11°17	17° 1	18♁22	15°Y 6	14°14	29°E21	8♁23	7°14	26°15	28♁23	
T 3	4 48 13	10°58'32	12♁13	16°43	3° 5	11°25	17°11	18°21	15° 5	14°14	29°20	8°D22	7°11	26°22	28°20	
W 4	4 52 10	11°59'19	26°12	15°25	4°19	11°32	17°21	18°21	15° 4	14°14	29°19	8°23	7° 8	26°28	28°17	
T 5	4 56 6	13° 0'08	10°Y 3	14° 3	5°34	11°39	17°31	18°20	15° 3	14°14	29°18	8°R23	7° 5	26°35	28°14	
F 6	5 0 3	14° 0'57	23°46	12°40	6°49	11°44	17°40	18°19	15° 2	14°15	29°17	8°22	7° 2	26°42	28°11	
S 7	5 4 0	15° 1'47	7♁19	11°19	8° 4	11°50	17°50	18°19	15° 1	14°15	29°17	8°19	6°58	26°48	28° 8	
S 8	5 7 56	16° 2'38	20°43	10° 2	9°18	11°54	18° 0	18°18	15° 0	14°16	29°16	8°13	6°55	26°55	28° 5	
M 9	5 11 53	17° 3'30	3♁57	8°53	10°33	11°58	18° 9	18°17	15° 0	14°16	29°15	8° 3	6°52	27° 2	28° 2	
T 10	5 15 49	18° 4'23	16°58	7°52	11°48	12° 0	18°18	18°16	14°59	14°16	29°14	7°52	6°49	27° 8	27°59	
W11	5 19 46	19° 5'17	29°46	7° 1	13° 2	12° 2	18°27	18°14	14°58	14°17	29°13	7°39	6°46	27°15	27°56	
T 12	5 23 42	20° 6'12	12♁20	6°21	14°17	12° 4	18°36	18°13	14°58	14°18	29°12	7°26	6°42	27°22	27°53	
F 13	5 27 39	21° 7'08	24°40	5°53	15°32	12°R 4	18°45	18°12	14°57	14°18	29°11	7°14	6°39	27°28	27°50	
S 14	5 31 35	22° 8'05	6♁47	5°35	16°46	12° 4	18°54	18°10	14°56	14°19	29°10	7° 3	6°36	27°35	27°47	
S 15	5 35 32	23° 9'03	18°44	5°D29	18° 1	12° 3	19° 3	18° 8	14°56	14°19	29° 9	6°56	6°33	27°42	27°44	
M16	5 39 29	24°10'02	0♁35	5°33	19°16	12° 1	19°12	18° 6	14°55	14°20	29° 8	6°51	6°30	27°48	27°41	
T 17	5 43 25	25°11'02	12°23	5°46	20°30	11°58	19°20	18° 5	14°55	14°21	29° 7	6°48	6°27	27°55	27°39	
W18	5 47 22	26°12'03	24°14	6° 9	21°45	11°55	19°28	18° 3	14°55	14°22	29° 6	6°D48	6°23	28° 2	27°36	
T 19	5 51 18	27°13'05	6♁13	6°38	23° 0	11°50	19°37	18° 0	14°54	14°22	29° 5	6°R48	6°20	28° 8	27°33	
F 20	5 55 15	28°14'09	18°26	7°16	24°14	11°45	19°45	17°58	14°54	14°23	29° 4	6°47	6°17	28°15	27°30	
S 21	5 59 11	29°15'13	0♁58	7°59	25°29	11°39	19°53	17°56	14°54	14°24	29° 3	6°45	6°14	28°22	27°28	
S 22	6 3 8	0♁16'17	13°54	8°48	26°43	11°32	20° 1	17°54	14°54	14°25	29° 1	6°41	6°11	28°28	27°25	
M23	6 7 4	1°17'23	27°16	9°41	27°58	11°24	20° 8	17°51	14°54	14°26	29° 0	6°34	6° 8	28°35	27°23	
T 24	6 11 1	2°18'30	11♁ 5	10°40	29°12	11°16	20°16	17°48	14°D54	14°27	28°59	6°24	6° 4	28°42	27°20	
W25	6 14 58	3°19'37	25°18	11°41	0♁27	11° 6	20°23	17°46	14°54	14°28	28°58	6°12	6° 1	28°48	27°18	
T 26	6 18 54	4°20'45	9♁51	12°47	1°41	10°56	20°31	17°43	14°54	14°29	28°57	5°59	5°58	28°55	27°15	
F 27	6 22 51	5°21'53	24°35	13°55	2°56	10°45	20°38	17°40	14°54	14°30	28°56	5°47	5°55	29° 2	27°13	
S 28	6 26 47	6°23'01	9♁23	15° 6	4°10	10°33	20°45	17°37	14°54	14°31	28°55	5°37	5°52	29° 8	27°10	
S 29	6 30 44	7°24'09	24° 6	16°19	5°25	10°20	20°52	17°34	14°54	14°32	28°53	5°30	5°48	29°15	27° 8	
M30	6 34 40	8°25'18	8♁39	17°34	6°39	10° 7	20°58	17°31	14°55	14°33	28°52	5°26	5°45	29°22	27° 6	
T 31	6 38 37	9♁26'26	22♁57	18♁50	7♁54	9♁52	21♁ 5	17♁28	14°Y55	14°X34	28°E51	5♁24	5♁42	29♁28	27♁ 4	

Delta T = 388.29 sec.

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