

SWISS EPHEMERIS for the year 2187
heliocentric

JANUARY 2187

00:00 UT

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

Delta T = 06m37s

FEBRUARY 2187

00:00 UT

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

Delta T = 06m37s

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SWISS EPHEMERIS for the year 2187
heliocentric

MARCH 2187

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Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
T 1	10 35 17	10 ^h 21'28"	10 ^h 30'	6 ^h 56'	25 ^h 57'59"	27 ^h 13'	11 ^h 40'	7 ^h 56'	4 ^h 15'	25 ^h 31'	4 ^h 0'	24 ^h 50'
F 2	10 39 14	11°21'47"	11°31'	9°45'	27°34'	27°39'	11°45'	7° 8'	4°16'	25°31'	4° 0'	24°51'
S 3	10 43 10	12°22'04"	12°31'	12°37'	29°10'	28° 5'	11°50'	7°10'	4°17'	25°32'	4° 0'	24°53'
S 4	10 47 7	13°22'19"	13°31'	15°30'	0 ^h 345'	28°32'	11°55'	7°12'	4°17'	25°32'	4° 0'	24°54'
M 5	10 51 3	14°22'33"	14°30'	18°25'	2°20'	28°58'	12° 1'	7°14'	4°18'	25°33'	4° 1'	24°55'
T 6	10 55 0	15°22'45"	15°30'	21°22'	3°55'	29°25'	12° 6'	7°16'	4°19'	25°33'	4° 1'	24°56'
W 7	10 58 56	16°22'56"	16°28'	24°22'	5°30'	29°51'	12°11'	7°18'	4°19'	25°33'	4° 1'	24°57'
T 8	11 2 53	17°23'05"	17°27'	27°25'	7° 5'	0 ^h 18'	12°16'	7°20'	4°20'	25°34'	4° 1'	24°59'
F 9	11 6 50	18°23'12"	18°25'	0 ^h 31'	8°40'	0°45'	12°21'	7°22'	4°21'	25°34'	4° 2'	25° 0'
S 10	11 10 46	19°23'17"	19°24'	3°40'	10°15'	1°11'	12°27'	7°24'	4°21'	25°34'	4° 2'	25° 1'
S 11	11 14 43	20°23'21"	20°22'	6°52'	11°50'	1°38'	12°32'	7°26'	4°22'	25°35'	4° 2'	25° 2'
M12	11 18 39	21°23'23"	21°20'	10° 9'	13°25'	2° 4'	12°37'	7°28'	4°23'	25°35'	4° 2'	25° 3'
T 13	11 22 36	22°23'22"	22°19'	13°29'	14°59'	2°31'	12°42'	7°30'	4°23'	25°35'	4° 2'	25° 5'
W14	11 26 32	23°23'20"	23°17'	16°55'	16°34'	2°57'	12°48'	7°32'	4°24'	25°36'	4° 3'	25° 6'
T 15	11 30 29	24°23'16"	24°16'	20°25'	18° 9'	3°24'	12°53'	7°34'	4°25'	25°36'	4° 3'	25° 7'
F 16	11 34 25	25°23'09"	25°15'	24° 0'	19°44'	3°51'	12°58'	7°37'	4°25'	25°37'	4° 3'	25° 8'
S 17	11 38 22	26°23'00"	26°14'	27°41'	21°19'	4°17'	13° 3'	7°39'	4°26'	25°37'	4° 3'	25° 9'
S 18	11 42 19	27°22'49"	27°14'	1 ^h 27'	22°54'	4°44'	13° 8'	7°41'	4°27'	25°37'	4° 4'	25°11'
M19	11 46 15	28°22'36"	28°14'	5°20'	24°29'	5°11'	13°14'	7°43'	4°27'	25°38'	4° 4'	25°12'
T 20	11 50 12	29°22'12"	29°15'	9°20'	26° 4'	5°38'	13°19'	7°45'	4°28'	25°38'	4° 4'	25°13'
W21	11 54 8	0 ^h 22'03"	0 ^h 16'	13°26'	27°39'	6° 4'	13°24'	7°47'	4°29'	25°38'	4° 4'	25°14'
T 22	11 58 5	1°21'43"	1°17'	17°40'	29°13'	6°31'	13°29'	7°49'	4°29'	25°39'	4° 4'	25°15'
F 23	12 2 1	2°21'21"	2°18'	22° 2'	0 ^h 48'	6°58'	13°35'	7°51'	4°30'	25°39'	4° 5'	25°17'
S 24	12 5 58	3°20'56"	3°20'	26°31'	2°23'	7°25'	13°40'	7°53'	4°31'	25°39'	4° 5'	25°18'
S 25	12 9 54	4°20'30"	4°21'	1 ^h 10'	3°58'	7°51'	13°45'	7°55'	4°31'	25°40'	4° 5'	25°19'
M26	12 13 51	5°20'01"	5°23'	5°57'	5°33'	8°18'	13°50'	7°57'	4°32'	25°40'	4° 5'	25°20'
T 27	12 17 48	6°19'31"	6°24'	10°52'	7° 8'	8°45'	13°55'	7°59'	4°33'	25°41'	4° 6'	25°21'
W28	12 21 44	7°18'59"	7°25'	15°57'	8°43'	9°12'	14° 1'	8° 1'	4°33'	25°41'	4° 6'	25°23'
T 29	12 25 41	8°18'25"	8°26'	21°11'	10°18'	9°39'	14° 6'	8° 3'	4°34'	25°41'	4° 6'	25°24'
F 30	12 29 37	9°17'49"	9°26'	26°34'	11°53'	10° 6'	14°11'	8° 5'	4°34'	25°42'	4° 6'	25°25'
S 31	12 33 34	10 ^h 17'11"	10 ^h 26'	2 ^h 6'	13 ^h 28'	10 ^h 33'	14 ^h 16'	8 ^h 7'	4 ^h 35'	25 ^h 42'	4 ^h 6'	25 ^h 26'

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APRIL 2187

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Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
S 1	12 37 30	11 ^h 16'32"	11 ^h 26'	7 ^h 47'	15 ^h 22'	11 ^h 0'	14 ^h 22'	8 ^h 9'	4 ^h 36'	25 ^h 42'	4 ^h 7'	25 ^h 28'
M 2	12 41 27	12°15'51"	12°25'	13°36'	16°37'	11°27'	14°27'	8°11'	4°36'	25°43'	4° 7'	25°29'
T 3	12 45 23	13°15'08"	13°24'	19°32'	18°12'	11°54'	14°32'	8°13'	4°37'	25°43'	4° 7'	25°30'
W 4	12 49 20	14°14'24"	14°22'	25°35'	19°47'	12°21'	14°37'	8°15'	4°38'	25°44'	4° 7'	25°31'
T 5	12 53 17	15°13'37"	15°20'	1 ^h 44'	21°22'	12°48'	14°42'	8°17'	4°38'	25°44'	4° 8'	25°32'
F 6	12 57 13	16°12'49"	16°18'	7°58'	22°57'	13°15'	14°48'	8°19'	4°39'	25°44'	4° 8'	25°34'
S 7	13 1 10	17°11'58"	17°15'	14°15'	24°32'	13°42'	14°53'	8°21'	4°40'	25°45'	4° 8'	25°35'
S 8	13 5 6	18°11'06"	18°13'	20°34'	26° 7'	14° 9'	14°58'	8°23'	4°40'	25°45'	4° 8'	25°36'
M 9	13 9 3	19°10'12"	19°10'	26°53'	27°42'	14°36'	15° 3'	8°25'	4°41'	25°45'	4° 9'	25°37'
T 10	13 12 59	20° 9'16"	20° 7'	3 ^h 12'	29°17'	15° 3'	15° 9'	8°27'	4°42'	25°46'	4° 9'	25°38'
W11	13 16 56	21° 8'17"	21° 5'	9°27'	0 ^h 52'	15°31'	15°14'	8°29'	4°42'	25°46'	4° 9'	25°40'
T 12	13 20 52	22° 7'17"	22° 2'	15°39'	2°27'	15°58'	15°19'	8°31'	4°43'	25°46'	4° 9'	25°41'
F 13	13 24 49	23° 6'14"	23° 0'	21°45'	4° 2'	16°25'	15°24'	8°33'	4°44'	25°47'	4° 9'	25°42'
S 14	13 28 45	24° 5'10"	23°58'	27°45'	5°37'	16°52'	15°30'	8°35'	4°44'	25°47'	4°10'	25°43'
S 15	13 32 42	25° 4'03"	24°56'	3 ^h 38'	7°13'	17°20'	15°35'	8°37'	4°45'	25°48'	4°10'	25°44'
M16	13 36 39	26° 2'53"	25°54'	9°22'	8°48'	17°47'	15°40'	8°39'	4°46'	25°48'	4°10'	25°46'
T 17	13 40 35	27° 1'42"	26°53'	14°57'	10°23'	18°14'	15°45'	8°41'	4°46'	25°48'	4°10'	25°47'
W18	13 44 32	28° 0'28"	27°53'	20°23'	11°58'	18°42'	15°51'	8°43'	4°47'	25°49'	4°11'	25°48'
T 19	13 48 28	28°59'12"	28°52'	25°39'	13°33'	19° 9'	15°56'	8°45'	4°48'	25°49'	4°11'	25°49'
F 20	13 52 25	29°57'53"	29°52'	0 ^h 45'	15° 8'	19°37'	16° 1'	8°47'	4°48'	25°49'	4°11'	25°51'
S 21	13 56 21	0 ^h 56'32"	0 ^h 53'	5°42'	16°44'	20° 4'	16° 6'	8°49'	4°49'	25°50'	4°11'	25°52'
S 22	14 0 18	1°55'10"	1°53'	10°30'	18°19'	20°32'	16°12'	8°51'	4°50'	25°50'	4°11'	25°53'
M23	14 4 14	2°53'45"	2°54'	15° 8'	19°54'	20°59'	16°17'	8°53'	4°50'	25°50'	4°12'	25°54'
T 24	14 8 11	3°52'18"	3°54'	19°37'	21°29'	21°27'	16°22'	8°55'	4°51'	25°51'	4°12'	25°55'
W25	14 12 8	4°50'50"	4°55'	23°57'	23° 5'	21°54'	16°27'	8°57'	4°52'	25°51'	4°12'	25°57'
T 26	14 16 4	5°49'19"	5°55'	28°10'	24°40'	22°22'	16°33'	8°59'	4°52'	25°52'	4°12'	25°58'
F 27	14 20 1	6°47'48"	6°55'	2 ^h 14'	26°15'	22°50'	16°38'	9° 1'	4°53'	25°52'	4°13'	25°59'
S 28	14 23 57	7°46'14"	7°54'	6°12'	27°51'	23°17'	16°43'	9° 3'	4°54'	25°52'	4°13'	26° 0'
S 29	14 27 54	8°44'39"	8°53'	10° 2'	29°26'	23°45'	16°48'	9° 5'	4°54'	25°53'	4°13'	26° 2'
M30	14 31 50	9 ^h 43'02"	9 ^h 52'	13 ^h 46'	1 ^h 1'	24 ^h 13'	16 ^h 54'	9 ^h 7'	4 ^h 55'	25 ^h 53'	4 ^h 13'	26 ^h 3'

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SWISS EPHEMERIS for the year 2187
heliocentric

MAY 2187

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	14 35 47	10M41'24	10M51	17 [♂] 24	2 [♃] 37	24 [♂] 41	16 [♂] 59	9 [♂] 9	4 [♂] 56	25 [♂] 53	4 [♂] 14	26 [♂] 4
W 2	14 39 43	11°39'44	11°49	20°56	4°12	25° 8	17° 4	9°11	4°56	25°54	4°14	26° 5
T 3	14 43 40	12°38'02	12°46	24°23	5°48	25°36	17° 9	9°13	4°57	25°54	4°14	26° 6
F 4	14 47 37	13°36'19	13°44	27°45	7°23	26° 4	17°15	9°15	4°58	25°54	4°14	26° 8
S 5	14 51 33	14°34'35	14°41	1M 3	8°59	26°32	17°20	9°17	4°58	25°55	4°14	26° 9
S 6	14 55 30	15°32'48	15°37	4°16	10°34	27° 0	17°25	9°19	4°59	25°55	4°15	26°10
M 7	14 59 26	16°31'01	16°34	7°26	12°10	27°28	17°30	9°21	5° 0	25°56	4°15	26°11
T 8	15 3 23	17°29'11	17°30	10°32	13°45	27°56	17°36	9°23	5° 0	25°56	4°15	26°13
W 9	15 7 19	18°27'20	18°26	13°35	15°21	28°24	17°41	9°25	5° 1	25°56	4°15	26°14
T 10	15 11 16	19°25'28	19°23	16°35	16°57	28°52	17°46	9°27	5° 1	25°57	4°16	26°15
F 11	15 15 12	20°23'33	20°19	19°33	18°32	29°20	17°51	9°29	5° 2	25°57	4°16	26°16
S 12	15 19 9	21°21'37	21°16	22°28	20° 8	29°48	17°57	9°31	5° 3	25°57	4°16	26°17
S 13	15 23 6	22°19'39	22°13	25°21	21°44	0M16	18° 2	9°33	5° 3	25°58	4°16	26°19
M14	15 27 2	23°17'39	23°10	28°12	23°19	0°45	18° 7	9°35	5° 4	25°58	4°17	26°20
T 15	15 30 59	24°15'38	24° 7	1 [♂] 2	24°55	1°13	18°12	9°37	5° 5	25°58	4°17	26°21
W16	15 34 55	25°13'34	25° 5	3°50	26°31	1°41	18°18	9°39	5° 5	25°59	4°17	26°22
T 17	15 38 52	26°11'28	26° 4	6°37	28° 7	2° 9	18°23	9°41	5° 6	25°59	4°17	26°24
F 18	15 42 48	27° 9'21	27° 2	9°24	29°43	2°38	18°28	9°43	5° 7	26° 0	4°17	26°25
S 19	15 46 45	28° 7'12	28° 1	12° 9	1 [♂] 18	3° 6	18°33	9°45	5° 7	26° 0	4°18	26°26
S 20	15 50 41	29° 5'01	29° 1	14°54	2°54	3°35	18°39	9°47	5° 8	26° 0	4°18	26°27
M21	15 54 38	0 [♂] 2'48	0 [♂] 0	17°39	4°30	4° 3	18°44	9°49	5° 9	26° 1	4°18	26°28
T 22	15 58 35	1° 0'35	1° 0	20°24	6° 6	4°31	18°49	9°51	5° 9	26° 1	4°18	26°30
W23	16 2 31	1°58'19	1°59	23° 8	7°42	5° 0	18°54	9°53	5°10	26° 1	4°19	26°31
T 24	16 6 28	2°56'03	2°59	25°53	9°18	5°29	19° 0	9°55	5°11	26° 2	4°19	26°32
F 25	16 10 24	3°53'45	3°58	28°39	10°54	5°57	19° 5	9°57	5°11	26° 2	4°19	26°33
S 26	16 14 21	4°51'26	4°57	1 [♂] 25	12°30	6°26	19°10	9°59	5°12	26° 3	4°19	26°35
S 27	16 18 17	5°49'06	5°56	4°13	14° 6	6°55	19°16	10° 1	5°13	26° 3	4°19	26°36
M28	16 22 14	6°46'45	6°55	7° 1	15°42	7°23	19°21	10° 3	5°13	26° 3	4°20	26°37
T 29	16 26 10	7°44'23	7°53	9°51	17°18	7°52	19°26	10° 5	5°14	26° 4	4°20	26°38
W30	16 30 7	8°42'00	8°51	12°42	18°54	8°21	19°31	10° 7	5°15	26° 4	4°20	26°40
T 31	16 34 4	9 [♂] 39'36	9 [♂] 49	15 [♂] 35	20 [♂] 31	8M50	19 [♂] 37	10 [♂] 9	5 [♂] 15	26 [♂] 4	4 [♂] 20	26 [♂] 41

Delta T = 06m38s

JUNE 2187

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
F 1	16 38 0	10 [♂] 37'11	10 [♂] 46	18 [♂] 31	22 [♂] 7	9M19	19 [♂] 42	10 [♂] 11	5 [♂] 16	26 [♂] 5	4 [♂] 21	26 [♂] 42
S 2	16 41 57	11°34'45	11°43	21°28	23°43	9°48	19°47	10°13	5°17	26° 5	4°21	26°43
S 3	16 45 53	12°32'18	12°39	24°28	25°19	10°17	19°52	10°15	5°17	26° 5	4°21	26°44
M 4	16 49 50	13°29'50	13°35	27°31	26°56	10°46	19°58	10°17	5°18	26° 6	4°21	26°46
T 5	16 53 46	14°27'22	14°31	0 [♂] 37	28°32	11°15	20° 3	10°19	5°19	26° 6	4°22	26°47
W 6	16 57 43	15°24'52	15°27	3°46	0II 8	11°44	20° 8	10°21	5°19	26° 7	4°22	26°48
T 7	17 1 39	16°22'22	16°22	6°58	1°45	12°13	20°14	10°23	5°20	26° 7	4°22	26°49
F 8	17 5 36	17°19'51	17°18	10°15	3°21	12°42	20°19	10°25	5°21	26° 7	4°22	26°51
S 9	17 9 33	18°17'19	18°14	13°36	4°57	13°11	20°24	10°27	5°21	26° 8	4°22	26°52
S 10	17 13 29	19°14'46	19° 9	17° 1	6°34	13°41	20°29	10°29	5°22	26° 8	4°23	26°53
M11	17 17 26	20°12'11	20° 6	20°31	8°10	14°10	20°35	10°31	5°23	26° 8	4°23	26°54
T 12	17 21 22	21° 9'36	21° 2	24° 7	9°47	14°39	20°40	10°33	5°23	26° 9	4°23	26°56
W13	17 25 19	22° 6'59	21°59	27°48	11°23	15° 9	20°45	10°35	5°24	26° 9	4°23	26°57
T 14	17 29 15	23° 4'22	22°56	1 [♂] 34	13° 0	15°38	20°50	10°37	5°25	26° 9	4°24	26°58
F 15	17 33 12	24° 1'43	23°54	5°27	14°36	16° 8	20°56	10°39	5°25	26°10	4°24	26°59
S 16	17 37 8	24°59'03	24°52	9°27	16°13	16°37	21° 1	10°41	5°26	26°10	4°24	27° 1
S 17	17 41 5	25°56'22	25°50	13°34	17°50	17° 7	21° 6	10°43	5°27	26°11	4°24	27° 2
M18	17 45 2	26°53'40	26°49	17°48	19°26	17°36	21°12	10°45	5°27	26°11	4°25	27° 3
T 19	17 48 58	27°50'58	27°48	22°10	21° 3	18° 6	21°17	10°47	5°28	26°11	4°25	27° 4
W20	17 52 55	28°48'15	28°47	26°40	22°40	18°36	21°22	10°49	5°29	26°12	4°25	27° 5
T 21	17 56 51	29°45'31	29°46	1 [♂] 18	24°17	19° 6	21°27	10°51	5°29	26°12	4°25	27° 7
F 22	18 0 48	0 [♂] 42'47	0 [♂] 45	6° 6	25°54	19°35	21°33	10°53	5°30	26°12	4°25	27° 8
S 23	18 4 44	1°40'02	1°44	11° 2	27°30	20° 5	21°38	10°55	5°31	26°13	4°26	27° 9
S 24	18 8 41	2°37'17	2°42	16° 7	29° 7	20°35	21°43	10°57	5°31	26°13	4°26	27°10
M25	18 12 38	3°34'32	3°41	21°21	0 [♂] 44	21° 5	21°49	10°59	5°32	26°13	4°26	27°12
T 26	18 16 34	4°31'46	4°39	26°44	2°21	21°35	21°54	11° 1	5°33	26°14	4°26	27°13
W27	18 20 31	5°29'00	5°37	2 [♂] 17	3°58	22° 5	21°59	11° 3	5°33	26°14	4°27	27°14
T 28	18 24 27	6°26'14	6°35	7°58	5°35	22°35	22° 4	11° 5	5°34	26°15	4°27	27°15
F 29	18 28 24	7°23'28	7°32	13°47	7°12	23° 6	22°10	11° 7	5°34	26°15	4°27	27°17
S 30	18 32 20	8 [♂] 20'41	8 [♂] 29	19 [♂] 43	8 [♂] 49	23M36	22 [♂] 15	11 [♂] 9	5 [♂] 35	26 [♂] 15	4 [♂] 27	27 [♂] 18

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SWISS EPHEMERIS for the year 2187
heliocentric

JULY 2187

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
S 1	18 36 17	9♁17'55	9♁26	25♃47	10♄26	24♅ 6	22♆20	11♁11	5♂36	26♃16	4♁28	27♂19
M 2	18 40 13	10°15'09	10°22	1♂56	12° 3	24°36	22°26	11°13	5°36	26°16	4°28	27°20
T 3	18 44 10	11°12'23	11°18	8°10	13°40	25° 7	22°31	11°15	5°37	26°16	4°28	27°22
W 4	18 48 7	12° 9'37	12°14	14°27	15°17	25°37	22°36	11°17	5°38	26°17	4°28	27°23
T 5	18 52 3	13° 6'51	13° 9	20°46	16°55	26° 8	22°41	11°19	5°38	26°17	4°28	27°24
F 6	18 56 0	14° 4'06	14° 5	27° 5	18°32	26°38	22°47	11°21	5°39	26°18	4°29	27°25
S 7	18 59 56	15° 1'20	15° 0	3♄23	20° 9	27° 9	22°52	11°23	5°40	26°18	4°29	27°27
S 8	19 3 53	15°58'34	15°55	9°39	21°46	27°39	22°57	11°25	5°40	26°18	4°29	27°28
M 9	19 7 49	16°55'48	16°51	15°51	23°24	28°10	23° 3	11°27	5°41	26°19	4°29	27°29
T 10	19 11 46	17°53'01	17°47	21°57	25° 1	28°41	23° 8	11°29	5°42	26°19	4°30	27°30
W11	19 15 42	18°50'15	18°43	27°56	26°38	29°11	23°13	11°31	5°42	26°19	4°30	27°32
T 12	19 19 39	19°47'28	19°39	3♂49	28°16	29°42	23°19	11°33	5°43	26°20	4°30	27°33
F 13	19 23 36	20°44'41	20°36	9°32	29°53	0♁13	23°24	11°35	5°44	26°20	4°30	27°34
S 14	19 27 32	21°41'54	21°34	15° 7	1♂30	0°44	23°29	11°37	5°44	26°20	4°30	27°35
S 15	19 31 29	22°39'06	22°31	20°33	3° 8	1°15	23°34	11°39	5°45	26°21	4°31	27°37
M16	19 35 25	23°36'19	23°29	25°49	4°45	1°46	23°40	11°41	5°46	26°21	4°31	27°38
T 17	19 39 22	24°33'32	24°28	0♂55	6°22	2°17	23°45	11°43	5°46	26°22	4°31	27°39
W18	19 43 18	25°30'45	25°27	5°51	8° 0	2°48	23°50	11°45	5°47	26°22	4°31	27°40
T 19	19 47 15	26°27'58	26°25	10°38	9°37	3°19	23°56	11°47	5°48	26°22	4°32	27°42
F 20	19 51 11	27°25'12	27°24	15°16	11°15	3°51	24° 1	11°49	5°48	26°23	4°32	27°43
S 21	19 55 8	28°22'25	28°23	19°45	12°52	4°22	24° 6	11°51	5°49	26°23	4°32	27°44
S 22	19 59 5	29°19'40	29°22	24° 6	14°30	4°53	24°12	11°53	5°50	26°23	4°32	27°45
M23	20 3 1	0♁16'54	0♁21	28°18	16° 7	5°25	24°17	11°55	5°50	26°24	4°33	27°47
T 24	20 6 58	1°14'09	1°20	2♁22	17°45	5°56	24°22	11°57	5°51	26°24	4°33	27°48
W25	20 10 54	2°11'25	2°18	6°19	19°22	6°27	24°28	11°59	5°52	26°24	4°33	27°49
T 26	20 14 51	3° 8'42	3°17	10° 9	21° 0	6°59	24°33	12° 1	5°52	26°25	4°33	27°50
F 27	20 18 47	4° 5'59	4°15	13°53	22°37	7°31	24°38	12° 3	5°53	26°25	4°33	27°52
S 28	20 22 44	5° 3'17	5°12	17°31	24°15	8° 2	24°43	12° 5	5°54	26°26	4°34	27°53
S 29	20 26 40	6° 0'37	6° 9	21° 3	25°52	8°34	24°49	12° 7	5°54	26°26	4°34	27°54
M30	20 30 37	6°57'57	7° 6	24°29	27°30	9° 6	24°54	12° 9	5°55	26°26	4°34	27°55
T 31	20 34 34	7♁55'18	8♁ 3	27♁51	29♁ 7	9♁38	24♁59	12♁11	5♂56	26♃27	4♁34	27♂57

Delta T = 06m38s

AUGUST 2187

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
W 1	20 38 30	8♁52'40	8♁59	1♂ 9	0♂45	10♁10	25♁ 5	12♁13	5♂56	26♃27	4♁35	27♂58
T 2	20 42 27	9°50'03	9°55	4°22	2°22	10°41	25°10	12°15	5°57	26°27	4°35	27°59
F 3	20 46 23	10°47'27	10°51	7°32	4° 0	11°13	25°15	12°17	5°58	26°28	4°35	28° 0
S 4	20 50 20	11°44'52	11°46	10°38	5°37	11°46	25°21	12°19	5°58	26°28	4°35	28° 2
S 5	20 54 16	12°42'18	12°42	13°41	7°15	12°18	25°26	12°21	5°59	26°29	4°36	28° 3
M 6	20 58 13	13°39'45	13°37	16°41	8°52	12°50	25°31	12°23	6° 0	26°29	4°36	28° 4
T 7	21 2 9	14°37'13	14°33	19°38	10°30	13°22	25°37	12°25	6° 0	26°29	4°36	28° 5
W 8	21 6 6	15°34'41	15°29	22°33	12° 7	13°54	25°42	12°27	6° 1	26°30	4°36	28° 7
T 9	21 10 3	16°32'10	16°25	25°26	13°45	14°27	25°47	12°29	6° 2	26°30	4°36	28° 8
F 10	21 13 59	17°29'39	17°22	28°18	15°22	14°59	25°52	12°31	6° 2	26°30	4°37	28° 9
S 11	21 17 56	18°27'10	18°19	1♁ 7	16°59	15°31	25°58	12°33	6° 3	26°31	4°37	28°10
S 12	21 21 52	19°24'41	19°16	3°56	18°37	16° 4	26° 3	12°35	6° 4	26°31	4°37	28°12
M13	21 25 49	20°22'13	20°14	6°43	20°14	16°37	26° 8	12°37	6° 4	26°31	4°37	28°13
T 14	21 29 45	21°19'45	21°12	9°29	21°52	17° 9	26°14	12°39	6° 5	26°32	4°38	28°14
W15	21 33 42	22°17'19	22°11	12°14	23°29	17°42	26°19	12°41	6° 6	26°32	4°38	28°15
T 16	21 37 38	23°14'54	23°10	14°59	25° 6	18°15	26°24	12°43	6° 6	26°33	4°38	28°17
F 17	21 41 35	24°12'30	24° 9	17°44	26°43	18°47	26°30	12°45	6° 7	26°33	4°38	28°18
S 18	21 45 32	25°10'06	25° 8	20°29	28°21	19°20	26°35	12°47	6° 8	26°33	4°39	28°19
S 19	21 49 28	26° 7'44	26° 7	23°14	29°58	19°53	26°40	12°49	6° 8	26°34	4°39	28°20
M20	21 53 25	27° 5'23	27° 7	25°59	1♁35	20°26	26°46	12°51	6° 9	26°34	4°39	28°22
T 21	21 57 21	28° 3'04	28° 6	28°44	3°12	20°59	26°51	12°53	6° 9	26°34	4°39	28°23
W22	22 1 18	29° 0'46	29° 5	1♁31	4°49	21°32	26°56	12°55	6°10	26°35	4°39	28°24
T 23	22 5 14	29°58'29	0♁ 5	4°18	6°26	22° 5	27° 2	12°56	6°11	26°35	4°40	28°26
F 24	22 9 11	0♁56'14	1° 3	7° 7	8° 3	22°38	27° 7	12°58	6°11	26°35	4°40	28°27
S 25	22 13 7	1°54'00	2° 2	9°56	9°40	23°12	27°12	13° 0	6°12	26°36	4°40	28°28
S 26	22 17 4	2°51'48	3° 0	12°48	11°17	23°45	27°18	13° 2	6°13	26°36	4°40	28°29
M27	22 21 1	3°49'38	3°58	15°41	12°54	24°18	27°23	13° 4	6°13	26°37	4°41	28°31
T 28	22 24 57	4°47'29	4°56	18°36	14°31	24°52	27°28	13° 6	6°14	26°37	4°41	28°32
W29	22 28 54	5°45'23	5°53	21°34	16° 8	25°25	27°34	13° 8	6°15	26°37	4°41	28°33
T 30	22 32 50	6°43'18	6°50	24°34	17°45	25°59	27°39	13°10	6°15	26°38	4°41	28°34
F 31	22 36 47	7♁41'15	7♁47	27♁37	19♁22	26♁32	27♁44	13♁12	6♂16	26♃38	4♁41	28♂36

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SWISS EPHEMERIS for the year 2187
heliocentric

SEPTEMBER 2187

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♁	♂	♄	♅
S 1	22 40 43	8 ^h 39 ^m 14	8 ^h 43	0 ^h 43	20 ^h 58	27 ^h 6	27 ^h 50	13 ^h 14	6 ^h 17	26 ^h 38	4 ^h 42	28 ^h 37
S 2	22 44 40	9 ^h 37 ^m 14	9 ^h 39	3 ^h 52	22 ^h 35	27 ^h 40	27 ^h 55	13 ^h 16	6 ^h 17	26 ^h 39	4 ^h 42	28 ^h 38
M 3	22 48 36	10 ^h 35 ^m 16	10 ^h 35	7 ^h 5	24 ^h 12	28 ^h 14	28 ^h 0	13 ^h 18	6 ^h 18	26 ^h 39	4 ^h 42	28 ^h 39
T 4	22 52 33	11 ^h 33 ^m 20	11 ^h 31	10 ^h 21	25 ^h 48	28 ^h 47	28 ^h 6	13 ^h 20	6 ^h 19	26 ^h 39	4 ^h 42	28 ^h 41
W 5	22 56 30	12 ^h 31 ^m 25	12 ^h 27	13 ^h 42	27 ^h 25	29 ^h 21	28 ^h 11	13 ^h 22	6 ^h 19	26 ^h 40	4 ^h 43	28 ^h 42
T 6	23 0 26	13 ^h 29 ^m 31	13 ^h 24	17 ^h 8	29 ^h 2	29 ^h 55	28 ^h 16	13 ^h 24	6 ^h 20	26 ^h 40	4 ^h 43	28 ^h 43
F 7	23 4 23	14 ^h 27 ^m 39	14 ^h 21	20 ^h 38	0 ^h 38	0 ^h 29	28 ^h 22	13 ^h 26	6 ^h 21	26 ^h 41	4 ^h 43	28 ^h 44
S 8	23 8 19	15 ^h 25 ^m 49	15 ^h 18	24 ^h 14	2 ^h 14	1 ^h 3	28 ^h 27	13 ^h 28	6 ^h 21	26 ^h 41	4 ^h 43	28 ^h 46
S 9	23 12 16	16 ^h 24 ^m 00	16 ^h 15	27 ^h 55	3 ^h 51	1 ^h 37	28 ^h 32	13 ^h 30	6 ^h 22	26 ^h 41	4 ^h 44	28 ^h 47
M10	23 16 12	17 ^h 22 ^m 12	17 ^h 13	1 ^h 42	5 ^h 27	2 ^h 12	28 ^h 38	13 ^h 32	6 ^h 23	26 ^h 42	4 ^h 44	28 ^h 48
T 11	23 20 9	18 ^h 20 ^m 26	18 ^h 12	5 ^h 35	7 ^h 3	2 ^h 46	28 ^h 43	13 ^h 34	6 ^h 23	26 ^h 42	4 ^h 44	28 ^h 50
W12	23 24 5	19 ^h 18 ^m 42	19 ^h 11	9 ^h 35	8 ^h 40	3 ^h 20	28 ^h 48	13 ^h 36	6 ^h 24	26 ^h 42	4 ^h 44	28 ^h 51
T 13	23 28 2	20 ^h 16 ^m 58	20 ^h 10	13 ^h 42	10 ^h 16	3 ^h 54	28 ^h 54	13 ^h 38	6 ^h 25	26 ^h 43	4 ^h 44	28 ^h 52
F 14	23 31 59	21 ^h 15 ^m 17	21 ^h 9	17 ^h 56	11 ^h 52	4 ^h 29	28 ^h 59	13 ^h 40	6 ^h 25	26 ^h 43	4 ^h 45	28 ^h 53
S 15	23 35 55	22 ^h 13 ^m 37	22 ^h 9	22 ^h 18	13 ^h 28	5 ^h 3	29 ^h 4	13 ^h 42	6 ^h 26	26 ^h 43	4 ^h 45	28 ^h 55
S 16	23 39 52	23 ^h 11 ^m 59	23 ^h 9	26 ^h 49	15 ^h 4	5 ^h 38	29 ^h 10	13 ^h 44	6 ^h 27	26 ^h 44	4 ^h 45	28 ^h 56
M17	23 43 48	24 ^h 10 ^m 22	24 ^h 9	1 ^h 47	16 ^h 40	6 ^h 12	29 ^h 15	13 ^h 46	6 ^h 27	26 ^h 44	4 ^h 45	28 ^h 57
T 18	23 47 45	25 ^h 8 ^m 47	25 ^h 9	6 ^h 15	18 ^h 16	6 ^h 47	29 ^h 20	13 ^h 48	6 ^h 28	26 ^h 45	4 ^h 46	28 ^h 58
W19	23 51 41	26 ^h 7 ^m 14	26 ^h 9	11 ^h 11	19 ^h 52	7 ^h 22	29 ^h 26	13 ^h 50	6 ^h 29	26 ^h 45	4 ^h 46	29 ^h 0
T 20	23 55 38	27 ^h 5 ^m 43	27 ^h 9	16 ^h 17	21 ^h 28	7 ^h 56	29 ^h 31	13 ^h 52	6 ^h 29	26 ^h 45	4 ^h 46	29 ^h 1
F 21	23 59 34	28 ^h 4 ^m 14	28 ^h 9	21 ^h 31	23 ^h 4	8 ^h 31	29 ^h 36	13 ^h 54	6 ^h 30	26 ^h 46	4 ^h 46	29 ^h 2
S 22	0 3 31	29 ^h 2 ^m 47	29 ^h 9	26 ^h 55	24 ^h 40	9 ^h 6	29 ^h 42	13 ^h 56	6 ^h 31	26 ^h 46	4 ^h 47	29 ^h 4
S 23	0 7 27	0 ^h 47 1 ^m 23	0 ^h 47 9	2 ^h 27	26 ^h 16	9 ^h 41	29 ^h 47	13 ^h 58	6 ^h 31	26 ^h 46	4 ^h 47	29 ^h 5
M24	0 11 24	1 ^h 0 ^m 00	1 ^h 8	8 ^h 9	27 ^h 51	10 ^h 16	29 ^h 52	14 ^h 0	6 ^h 32	26 ^h 47	4 ^h 47	29 ^h 6
T 25	0 15 21	1 ^h 58 ^m 40	2 ^h 7	13 ^h 58	29 ^h 27	10 ^h 51	29 ^h 58	14 ^h 2	6 ^h 33	26 ^h 47	4 ^h 47	29 ^h 7
W26	0 19 17	2 ^h 57 ^m 22	3 ^h 6	19 ^h 55	1 ^h 7 3	11 ^h 26	0 ^h 3 3	14 ^h 4	6 ^h 33	26 ^h 47	4 ^h 47	29 ^h 9
T 27	0 23 14	3 ^h 56 ^m 06	4 ^h 4	25 ^h 58	2 ^h 38	12 ^h 1	0 ^h 8	14 ^h 6	6 ^h 34	26 ^h 48	4 ^h 48	29 ^h 10
F 28	0 27 10	4 ^h 54 ^m 52	5 ^h 2	2 ^h 11 8	4 ^h 14	12 ^h 36	0 ^h 14	14 ^h 8	6 ^h 35	26 ^h 48	4 ^h 48	29 ^h 11
S 29	0 31 7	5 ^h 53 ^m 41	6 ^h 0	8 ^h 22	5 ^h 49	13 ^h 12	0 ^h 19	14 ^h 10	6 ^h 35	26 ^h 49	4 ^h 48	29 ^h 12
S 30	0 35 3	6 ^h 45 ^m 23	6 ^h 45 7	14 ^h 11 39	7 ^h 42 5	13 ^h 24 7	0 ^h 24	14 ^h 12	6 ^h 36	26 ^h 49	4 ^h 48	29 ^h 14

Delta T = 06m39s

OCTOBER 2187

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♁	♂	♄	♅
M 1	0 39 0	7 ^h 45 ^m 12	7 ^h 45	20 ^h 11 58	9 ^h 7 0	14 ^h 22 2	0 ^h 30	14 ^h 14	6 ^h 37	26 ^h 49	4 ^h 49	29 ^h 15
T 2	0 42 56	8 ^h 50 ^m 20	8 ^h 51	27 ^h 17	10 ^h 36	14 ^h 58	0 ^h 35	14 ^h 16	6 ^h 37	26 ^h 50	4 ^h 49	29 ^h 16
W 3	0 46 53	9 ^h 49 ^m 17	9 ^h 48	3 ^h 35	12 ^h 11	15 ^h 33	0 ^h 40	14 ^h 18	6 ^h 38	26 ^h 50	4 ^h 49	29 ^h 18
T 4	0 50 50	10 ^h 48 ^m 16	10 ^h 45	9 ^h 51	13 ^h 47	16 ^h 9	0 ^h 46	14 ^h 20	6 ^h 39	26 ^h 50	4 ^h 49	29 ^h 19
F 5	0 54 46	11 ^h 47 ^m 17	11 ^h 42	16 ^h 2	15 ^h 22	16 ^h 44	0 ^h 51	14 ^h 22	6 ^h 39	26 ^h 51	4 ^h 50	29 ^h 20
S 6	0 58 43	12 ^h 46 ^m 20	12 ^h 40	22 ^h 8	16 ^h 57	17 ^h 20	0 ^h 56	14 ^h 24	6 ^h 40	26 ^h 51	4 ^h 50	29 ^h 21
S 7	1 2 39	13 ^h 45 ^m 25	13 ^h 38	28 ^h 8	18 ^h 32	17 ^h 55	1 ^h 2	14 ^h 26	6 ^h 41	26 ^h 52	4 ^h 50	29 ^h 23
M 8	1 6 36	14 ^h 44 ^m 31	14 ^h 36	4 ^h 0 0	20 ^h 8	18 ^h 31	1 ^h 7	14 ^h 28	6 ^h 41	26 ^h 52	4 ^h 50	29 ^h 24
T 9	1 10 32	15 ^h 43 ^m 39	15 ^h 35	9 ^h 43	21 ^h 43	19 ^h 7	1 ^h 13	14 ^h 30	6 ^h 42	26 ^h 52	4 ^h 50	29 ^h 25
W10	1 14 29	16 ^h 42 ^m 49	16 ^h 34	15 ^h 18	23 ^h 18	19 ^h 43	1 ^h 18	14 ^h 32	6 ^h 42	26 ^h 53	4 ^h 51	29 ^h 26
T 11	1 18 25	17 ^h 42 ^m 01	17 ^h 33	20 ^h 43	24 ^h 53	20 ^h 18	1 ^h 23	14 ^h 34	6 ^h 43	26 ^h 53	4 ^h 51	29 ^h 28
F 12	1 22 22	18 ^h 41 ^m 14	18 ^h 33	25 ^h 58	26 ^h 28	20 ^h 54	1 ^h 29	14 ^h 36	6 ^h 44	26 ^h 53	4 ^h 51	29 ^h 29
S 13	1 26 19	19 ^h 40 ^m 29	19 ^h 33	1 ^h 4 4	28 ^h 3	21 ^h 30	1 ^h 34	14 ^h 38	6 ^h 44	26 ^h 54	4 ^h 51	29 ^h 30
S 14	1 30 15	20 ^h 39 ^m 46	20 ^h 34	6 ^h 1	29 ^h 38	22 ^h 6	1 ^h 39	14 ^h 40	6 ^h 45	26 ^h 54	4 ^h 52	29 ^h 32
M15	1 34 12	21 ^h 39 ^m 05	21 ^h 35	10 ^h 47	1 ^h 14	22 ^h 42	1 ^h 45	14 ^h 42	6 ^h 46	26 ^h 54	4 ^h 52	29 ^h 33
T 16	1 38 8	22 ^h 38 ^m 26	22 ^h 36	15 ^h 25	2 ^h 49	23 ^h 19	1 ^h 50	14 ^h 44	6 ^h 46	26 ^h 55	4 ^h 52	29 ^h 34
W17	1 42 5	23 ^h 37 ^m 49	23 ^h 37	19 ^h 53	4 ^h 24	23 ^h 55	1 ^h 55	14 ^h 46	6 ^h 47	26 ^h 55	4 ^h 52	29 ^h 35
T 18	1 46 1	24 ^h 37 ^m 13	24 ^h 38	24 ^h 14	5 ^h 59	24 ^h 31	2 ^h 1	14 ^h 48	6 ^h 48	26 ^h 56	4 ^h 52	29 ^h 37
F 19	1 49 58	25 ^h 36 ^m 40	25 ^h 39	28 ^h 25	7 ^h 34	25 ^h 7	2 ^h 6	14 ^h 50	6 ^h 48	26 ^h 56	4 ^h 53	29 ^h 38
S 20	1 53 54	26 ^h 36 ^m 09	26 ^h 40	2 ^h 30	9 ^h 9	25 ^h 43	2 ^h 11	14 ^h 52	6 ^h 49	26 ^h 56	4 ^h 53	29 ^h 39
S 21	1 57 51	27 ^h 35 ^m 40	27 ^h 41	6 ^h 26	10 ^h 44	26 ^h 20	2 ^h 17	14 ^h 54	6 ^h 50	26 ^h 57	4 ^h 53	29 ^h 41
M22	2 1 48	28 ^h 35 ^m 13	28 ^h 42	10 ^h 16	12 ^h 18	26 ^h 56	2 ^h 22	14 ^h 56	6 ^h 50	26 ^h 57	4 ^h 53	29 ^h 42
T 23	2 5 44	29 ^h 34 ^m 49	29 ^h 43	14 ^h 0	13 ^h 53	27 ^h 33	2 ^h 27	14 ^h 58	6 ^h 51	26 ^h 57	4 ^h 54	29 ^h 43
W24	2 9 41	0 ^h 34 ^m 27	0 ^h 34 3	17 ^h 37	15 ^h 28	28 ^h 9	2 ^h 33	15 ^h 0	6 ^h 52	26 ^h 58	4 ^h 54	29 ^h 44
T 25	2 13 37	1 ^h 34 ^m 07	1 ^h 43	21 ^h 9	17 ^h 3	28 ^h 46	2 ^h 38	15 ^h 2	6 ^h 52	26 ^h 58	4 ^h 54	29 ^h 46
F 26	2 17 34	2 ^h 33 ^m 50	2 ^h 42	24 ^h 36	18 ^h 38	29 ^h 22	2 ^h 44	15 ^h 4	6 ^h 53	26 ^h 58	4 ^h 54	29 ^h 47
S 27	2 21 30	3 ^h 33 ^m 34	3 ^h 41	27 ^h 58	20 ^h 13	29 ^h 59	2 ^h 49	15 ^h 6	6 ^h 54	26 ^h 59	4 ^h 55	29 ^h 48
S 28	2 25 27	4 ^h 33 ^m 21	4 ^h 40	1 ^h 15	21 ^h 48	0 ^h 35	2<					

SWISS EPHEMERIS for the year 2187
heliocentric

NOVEMBER 2187

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	2 41 13	8♁32'50	8♁32	13♁47	28♁7	3♁3	3♁16	15♁15	6♁57	27♁1	4♁56	29♁55									
F 2	2 45 10	9°32'47	9°30	16°47	29°42	3°39	3°21	15°17	6°58	27°1	4°56	29°56									
S 3	2 49 6	10°32'46	10°28	19°44	1♁17	4°16	3°26	15°19	6°58	27°1	4°56	29°57									
S 4	2 53 3	11°32'47	11°27	22°39	2°52	4°53	3°32	15°21	6°59	27°2	4°56	29°59									
M 5	2 56 59	12°32'50	12°25	25°32	4°27	5°30	3°37	15°23	7°0	27°2	4°57	29°59									
T 6	3 0 56	13°32'54	13°25	28°23	6°2	6°7	3°43	15°25	7°0	27°2	4°57	0♁1									
W 7	3 4 52	14°33'00	14°24	1♁13	7°37	6°44	3°48	15°27	7°1	27°3	4°57	0°2									
T 8	3 8 49	15°33'07	15°24	4°1	9°12	7°22	3°53	15°29	7°2	27°3	4°57	0°4									
F 9	3 12 46	16°33'16	16°24	6°48	10°47	7°59	3°59	15°31	7°2	27°4	4°58	0°5									
S 10	3 16 42	17°33'26	17°25	9°34	12°22	8°36	4°4	15°33	7°3	27°4	4°58	0°6									
S 11	3 20 39	18°33'38	18°26	12°20	13°56	9°13	4°9	15°35	7°4	27°4	4°58	0°8									
M12	3 24 35	19°33'51	19°27	15°5	15°31	9°50	4°15	15°37	7°4	27°5	4°58	0°9									
T 13	3 28 32	20°34'06	20°29	17°49	17°6	10°28	4°20	15°39	7°5	27°5	4°58	0°10									
W14	3 32 28	21°34'22	21°30	20°34	18°41	11°5	4°26	15°41	7°6	27°5	4°59	0°12									
T 15	3 36 25	22°34'40	22°33	23°19	20°16	11°42	4°31	15°43	7°6	27°6	4°59	0°13									
F 16	3 40 21	23°35'00	23°35	26°4	21°51	12°20	4°36	15°45	7°7	27°6	4°59	0°14									
S 17	3 44 18	24°35'21	24°37	28°50	23°26	12°57	4°42	15°47	7°8	27°6	4°59	0°15									
S 18	3 48 14	25°35'44	25°39	1♁36	25°1	13°35	4°47	15°49	7°8	27°7	5°0	0°17									
M19	3 52 11	26°36'09	26°41	4°23	26°36	14°12	4°52	15°51	7°9	27°7	5°0	0°18									
T 20	3 56 8	27°36'36	27°43	7°12	28°11	14°50	4°58	15°53	7°10	27°8	5°0	0°19									
W21	4 0 4	28°37'05	28°45	10°2	29°46	15°27	5°3	15°55	7°10	27°8	5°0	0°21									
T 22	4 4 1	29°37'35	29°46	12°53	1♁21	16°5	5°9	15°57	7°11	27°8	5°1	0°22									
F 23	4 7 57	0♁38'07	0♁47	15°47	2°56	16°42	5°14	15°59	7°12	27°9	5°1	0°23									
S 24	4 11 54	1°38'41	1°47	18°42	4°31	17°20	5°19	16°1	7°12	27°9	5°1	0°24									
S 25	4 15 50	2°39'16	2°47	21°40	6°6	17°58	5°25	16°3	7°13	27°9	5°1	0°26									
M26	4 19 47	3°39'53	3°47	24°40	7°42	18°35	5°30	16°5	7°14	27°10	5°1	0°27									
T 27	4 23 44	4°40'32	4°46	27°43	9°17	19°13	5°35	16°7	7°14	27°10	5°2	0°28									
W28	4 27 40	5°41'13	5°45	0♁49	10°52	19°51	5°41	16°9	7°15	27°11	5°2	0°30									
T 29	4 31 37	6°41'55	6°44	3°58	12°27	20°28	5°46	16°11	7°16	27°11	5°2	0°31									
F 30	4 35 33	7♁42'39	7♁43	7♁11	14♁2	21♁6	5♁52	16♁13	7♁16	27♁11	5♁2	0♁32									

Delta T = 06m39s

DECEMBER 2187

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	4 39 30	8♁43'24	8♁42	10♁28	15♁37	21♁44	5♁57	16♁15	7♁17	27♁12	5♁3	0♁34									
S 2	4 43 26	9°44'10	9°41	13°49	17°13	22°22	6°2	16°17	7°18	27°12	5°3	0°35									
M 3	4 47 23	10°44'58	10°40	17°14	18°48	23°0	6°8	16°19	7°18	27°12	5°3	0°36									
T 4	4 51 19	11°45'46	11°39	20°45	20°23	23°38	6°13	16°21	7°19	27°13	5°3	0°37									
W 5	4 55 16	12°46'36	12°39	24°21	21°58	24°16	6°19	16°23	7°20	27°13	5°4	0°39									
T 6	4 59 13	13°47'26	13°39	28°2	23°34	24°53	6°24	16°25	7°20	27°13	5°4	0°40									
F 7	5 3 9	14°48'17	14°39	1♁49	25°9	25°31	6°29	16°27	7°21	27°14	5°4	0°41									
S 8	5 7 6	15°49'09	15°40	5°42	26°44	26°9	6°35	16°29	7°21	27°14	5°4	0°43									
S 9	5 11 2	16°50'02	16°41	9°43	28°20	26°47	6°40	16°31	7°22	27°15	5°4	0°44									
M10	5 14 59	17°50'56	17°42	13°50	29°55	27°25	6°45	16°33	7°23	27°15	5°5	0°45									
T 11	5 18 55	18°51'50	18°44	18°4	1♁31	28°3	6°51	16°35	7°23	27°15	5°5	0°47									
W12	5 22 52	19°52'45	19°46	22°27	3°6	28°41	6°56	16°37	7°24	27°16	5°5	0°48									
T 13	5 26 48	20°53'41	20°49	26°57	4°41	29°19	7°2	16°38	7°25	27°16	5°5	0°49									
F 14	5 30 45	21°54'38	21°51	1♁36	6°17	29°57	7°7	16°40	7°25	27°16	5°6	0°51									
S 15	5 34 42	22°55'35	22°54	6°24	7°52	0♁35	7°12	16°42	7°26	27°17	5°6	0°52									
S 16	5 38 38	23°56'33	23°57	11°21	9°28	1°13	7°18	16°44	7°27	27°17	5°6	0°53									
M17	5 42 35	24°57'33	25°0	16°26	11°3	1°51	7°23	16°46	7°27	27°17	5°6	0°54									
T 18	5 46 31	25°58'33	26°3	21°41	12°39	2°29	7°29	16°48	7°28	27°18	5°7	0°56									
W19	5 50 28	26°59'34	27°5	27°5	14°15	3°8	7°34	16°50	7°29	27°18	5°7	0°57									
T 20	5 54 24	28°0'35	28°8	2♁38	15°50	3°46	7°39	16°52	7°29	27°19	5°7	0°58									
F 21	5 58 21	29°1'38	29°10	8°19	17°26	4°24	7°45	16°54	7°30	27°19	5°7	1°0									
S 22	6 2 17	0♁2'41	0♁11	14°9	19°2	5°2	7°50	16°56	7°31	27°19	5°7	1°1									
S 23	6 6 14	1°3'46	1°12	20°6	20°37	5°40	7°56	16°58	7°31	27°20	5°8	1°2									
M24	6 10 11	2°4'51	2°13	26°10	22°13	6°18	8°1	17°0	7°32	27°20	5°8	1°4									
T 25	6 14 7	3°5'57	3°13	2♁19	23°49	6°56	8°6	17°2	7°33	27°20	5°8	1°5									
W26	6 18 4	4°7'04	4°13	8°33	25°24	7°34	8°12	17°4	7°33	27°21	5°8	1°6									
T 27	6 22 0	5°8'12	5°13	14°51	27°0	8°12	8°17	17°6	7°34	27°21	5°9	1°8									
F 28	6 25 57	6°9'20	6°13	21°10	28°36	8°51	8°22	17°8	7°35	27°22	5°9	1°9									
S 29	6 29 53	7°10'29	7°12	27°29	0♁12	9°29	8°28	17°10	7°35	27°22	5°9	1°10									
S 30	6 33 50	8°11'38	8°11	3♁47	1°48	10°7	8°33	17°12	7°36	27°22	5°9	1°11									
M31	6 37 47	9♁12'47	9♁11	10♁3	3♁24	10♁45	8♁39	17♁14	7♁37	27♁23	5♁10	1♁13									

Delta T = 06m39s

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