

SWISS EPHEMERIS for the year 2060  
heliocentric

JANUARY 2060

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
T 1	6 41 43	10 <sup>h</sup> 18'11"	10 <sup>h</sup> 23'	12 <sup>h</sup> 35'	12 <sup>h</sup> 19'	16 <sup>h</sup> 42'	29 <sup>h</sup> 42'	1 <sup>h</sup> 23'	4 <sup>h</sup> 46'	17 <sup>h</sup> 19'	21 <sup>h</sup> 8'	23 <sup>h</sup> 56'
F 2	6 45 39	11 <sup>h</sup> 19'22"	11 <sup>h</sup> 23'	15 <sup>h</sup> 53'	13 <sup>h</sup> 40'	17 <sup>h</sup> 20'	29 <sup>h</sup> 47'	1 <sup>h</sup> 26'	4 <sup>h</sup> 47'	17 <sup>h</sup> 19'	21 <sup>h</sup> 8'	23 <sup>h</sup> 57'
S 3	6 49 36	12 <sup>h</sup> 20'33"	12 <sup>h</sup> 22'	18 <sup>h</sup> 50'	15 <sup>h</sup> 16'	17 <sup>h</sup> 57'	29 <sup>h</sup> 52'	1 <sup>h</sup> 28'	4 <sup>h</sup> 48'	17 <sup>h</sup> 20'	21 <sup>h</sup> 8'	23 <sup>h</sup> 58'
S 4	6 53 32	13 <sup>h</sup> 21'43"	13 <sup>h</sup> 21'	21 <sup>h</sup> 50'	16 <sup>h</sup> 51'	18 <sup>h</sup> 35'	29 <sup>h</sup> 58'	1 <sup>h</sup> 30'	4 <sup>h</sup> 48'	17 <sup>h</sup> 20'	21 <sup>h</sup> 9'	23 <sup>h</sup> 59'
M 5	6 57 29	14 <sup>h</sup> 22'54"	14 <sup>h</sup> 20'	24 <sup>h</sup> 52'	18 <sup>h</sup> 27'	19 <sup>h</sup> 13'	0 <sup>h</sup> 11' 3"	1 <sup>h</sup> 32'	4 <sup>h</sup> 49'	17 <sup>h</sup> 20'	21 <sup>h</sup> 9'	23 <sup>h</sup> 59'
T 6	7 1 25	15 <sup>h</sup> 24'05"	15 <sup>h</sup> 20'	27 <sup>h</sup> 57'	20 <sup>h</sup> 3'	19 <sup>h</sup> 51'	0 <sup>h</sup> 8'	1 <sup>h</sup> 34'	4 <sup>h</sup> 50'	17 <sup>h</sup> 21'	21 <sup>h</sup> 9'	24 <sup>h</sup> 0'
W 7	7 5 22	16 <sup>h</sup> 25'15"	16 <sup>h</sup> 19'	1 <sup>h</sup> 5'	21 <sup>h</sup> 38'	20 <sup>h</sup> 28'	0 <sup>h</sup> 14'	1 <sup>h</sup> 37'	4 <sup>h</sup> 51'	17 <sup>h</sup> 21'	21 <sup>h</sup> 9'	24 <sup>h</sup> 1'
T 8	7 9 18	17 <sup>h</sup> 26'25"	17 <sup>h</sup> 19'	4 <sup>h</sup> 17'	23 <sup>h</sup> 14'	21 <sup>h</sup> 6'	0 <sup>h</sup> 19'	1 <sup>h</sup> 39'	4 <sup>h</sup> 51'	17 <sup>h</sup> 21'	21 <sup>h</sup> 9'	24 <sup>h</sup> 2'
F 9	7 13 15	18 <sup>h</sup> 27'35"	18 <sup>h</sup> 19'	7 <sup>h</sup> 33'	24 <sup>h</sup> 50'	21 <sup>h</sup> 44'	0 <sup>h</sup> 24'	1 <sup>h</sup> 41'	4 <sup>h</sup> 52'	17 <sup>h</sup> 22'	21 <sup>h</sup> 10'	24 <sup>h</sup> 3'
S 10	7 17 12	19 <sup>h</sup> 28'44"	19 <sup>h</sup> 20'	10 <sup>h</sup> 53'	26 <sup>h</sup> 26'	22 <sup>h</sup> 22'	0 <sup>h</sup> 30'	1 <sup>h</sup> 43'	4 <sup>h</sup> 53'	17 <sup>h</sup> 22'	21 <sup>h</sup> 10'	24 <sup>h</sup> 3'
S 11	7 21 8	20 <sup>h</sup> 29'52"	20 <sup>h</sup> 21'	14 <sup>h</sup> 17'	28 <sup>h</sup> 2'	23 <sup>h</sup> 0'	0 <sup>h</sup> 35'	1 <sup>h</sup> 46'	4 <sup>h</sup> 54'	17 <sup>h</sup> 22'	21 <sup>h</sup> 10'	24 <sup>h</sup> 4'
M 12	7 25 5	21 <sup>h</sup> 31'00"	21 <sup>h</sup> 23'	17 <sup>h</sup> 46'	29 <sup>h</sup> 37'	23 <sup>h</sup> 38'	0 <sup>h</sup> 41'	1 <sup>h</sup> 48'	4 <sup>h</sup> 54'	17 <sup>h</sup> 23'	21 <sup>h</sup> 10'	24 <sup>h</sup> 5'
T 13	7 29 1	22 <sup>h</sup> 32'08"	22 <sup>h</sup> 25'	21 <sup>h</sup> 20'	1 <sup>h</sup> 13'	24 <sup>h</sup> 16'	0 <sup>h</sup> 46'	1 <sup>h</sup> 50'	4 <sup>h</sup> 55'	17 <sup>h</sup> 23'	21 <sup>h</sup> 10'	24 <sup>h</sup> 6'
W 14	7 32 58	23 <sup>h</sup> 33'15"	23 <sup>h</sup> 27'	25 <sup>h</sup> 0'	2 <sup>h</sup> 49'	24 <sup>h</sup> 54'	0 <sup>h</sup> 51'	1 <sup>h</sup> 52'	4 <sup>h</sup> 56'	17 <sup>h</sup> 24'	21 <sup>h</sup> 11'	24 <sup>h</sup> 7'
T 15	7 36 54	24 <sup>h</sup> 34'21"	24 <sup>h</sup> 30'	28 <sup>h</sup> 46'	4 <sup>h</sup> 25'	25 <sup>h</sup> 32'	0 <sup>h</sup> 57'	1 <sup>h</sup> 54'	4 <sup>h</sup> 57'	17 <sup>h</sup> 24'	21 <sup>h</sup> 11'	24 <sup>h</sup> 7'
F 16	7 40 51	25 <sup>h</sup> 35'27"	25 <sup>h</sup> 32'	2 <sup>h</sup> 37'	6 <sup>h</sup> 1'	26 <sup>h</sup> 10'	1 <sup>h</sup> 2'	1 <sup>h</sup> 57'	4 <sup>h</sup> 58'	17 <sup>h</sup> 24'	21 <sup>h</sup> 11'	24 <sup>h</sup> 8'
S 17	7 44 47	26 <sup>h</sup> 36'33"	26 <sup>h</sup> 35'	6 <sup>h</sup> 36'	7 <sup>h</sup> 37'	26 <sup>h</sup> 48'	1 <sup>h</sup> 7'	1 <sup>h</sup> 59'	4 <sup>h</sup> 58'	17 <sup>h</sup> 25'	21 <sup>h</sup> 11'	24 <sup>h</sup> 9'
S 18	7 48 44	27 <sup>h</sup> 37'37"	27 <sup>h</sup> 38'	10 <sup>h</sup> 41'	9 <sup>h</sup> 13'	27 <sup>h</sup> 26'	1 <sup>h</sup> 13'	2 <sup>h</sup> 1'	4 <sup>h</sup> 59'	17 <sup>h</sup> 25'	21 <sup>h</sup> 11'	24 <sup>h</sup> 10'
M 19	7 52 41	28 <sup>h</sup> 38'42"	28 <sup>h</sup> 41'	14 <sup>h</sup> 53'	10 <sup>h</sup> 49'	28 <sup>h</sup> 4'	1 <sup>h</sup> 18'	2 <sup>h</sup> 3'	5 <sup>h</sup> 0'	17 <sup>h</sup> 25'	21 <sup>h</sup> 12'	24 <sup>h</sup> 11'
T 20	7 56 37	29 <sup>h</sup> 39'45"	29 <sup>h</sup> 44'	19 <sup>h</sup> 14'	12 <sup>h</sup> 25'	28 <sup>h</sup> 42'	1 <sup>h</sup> 23'	2 <sup>h</sup> 5'	5 <sup>h</sup> 1'	17 <sup>h</sup> 26'	21 <sup>h</sup> 12'	24 <sup>h</sup> 12'
W 21	8 0 34	0 <sup>h</sup> 40'49"	0 <sup>h</sup> 47'	23 <sup>h</sup> 42'	14 <sup>h</sup> 1'	29 <sup>h</sup> 20'	1 <sup>h</sup> 29'	2 <sup>h</sup> 8'	5 <sup>h</sup> 1'	17 <sup>h</sup> 26'	21 <sup>h</sup> 12'	24 <sup>h</sup> 12'
T 22	8 4 30	1 <sup>h</sup> 41'51"	1 <sup>h</sup> 49'	28 <sup>h</sup> 19'	15 <sup>h</sup> 37'	29 <sup>h</sup> 58'	1 <sup>h</sup> 34'	2 <sup>h</sup> 10'	5 <sup>h</sup> 2'	17 <sup>h</sup> 27'	21 <sup>h</sup> 12'	24 <sup>h</sup> 13'
F 23	8 8 27	2 <sup>h</sup> 42'54"	2 <sup>h</sup> 51'	3 <sup>h</sup> 19'	4 <sup>h</sup> 1'	17 <sup>h</sup> 14'	0 <sup>h</sup> 36'	1 <sup>h</sup> 39'	2 <sup>h</sup> 12'	5 <sup>h</sup> 3'	17 <sup>h</sup> 27'	24 <sup>h</sup> 14'
S 24	8 12 23	3 <sup>h</sup> 43'55"	3 <sup>h</sup> 53'	7 <sup>h</sup> 58'	18 <sup>h</sup> 50'	1 <sup>h</sup> 14'	1 <sup>h</sup> 45'	2 <sup>h</sup> 14'	5 <sup>h</sup> 4'	17 <sup>h</sup> 27'	21 <sup>h</sup> 13'	24 <sup>h</sup> 15'
S 25	8 16 20	4 <sup>h</sup> 44'57"	4 <sup>h</sup> 54'	13 <sup>h</sup> 1'	20 <sup>h</sup> 26'	1 <sup>h</sup> 52'	1 <sup>h</sup> 50'	2 <sup>h</sup> 16'	5 <sup>h</sup> 4'	17 <sup>h</sup> 28'	21 <sup>h</sup> 13'	24 <sup>h</sup> 16'
M 26	8 20 16	5 <sup>h</sup> 45'58"	5 <sup>h</sup> 55'	18 <sup>h</sup> 14'	22 <sup>h</sup> 2'	2 <sup>h</sup> 30'	1 <sup>h</sup> 56'	2 <sup>h</sup> 19'	5 <sup>h</sup> 5'	17 <sup>h</sup> 28'	21 <sup>h</sup> 13'	24 <sup>h</sup> 16'
T 27	8 24 13	6 <sup>h</sup> 46'58"	6 <sup>h</sup> 56'	23 <sup>h</sup> 35'	23 <sup>h</sup> 38'	3 <sup>h</sup> 8'	2 <sup>h</sup> 1'	2 <sup>h</sup> 21'	5 <sup>h</sup> 6'	17 <sup>h</sup> 28'	21 <sup>h</sup> 13'	24 <sup>h</sup> 17'
W 28	8 28 10	7 <sup>h</sup> 47'58"	7 <sup>h</sup> 56'	29 <sup>h</sup> 6'	25 <sup>h</sup> 15'	3 <sup>h</sup> 46'	2 <sup>h</sup> 6'	2 <sup>h</sup> 23'	5 <sup>h</sup> 7'	17 <sup>h</sup> 29'	21 <sup>h</sup> 13'	24 <sup>h</sup> 18'
T 29	8 32 6	8 <sup>h</sup> 48'57"	8 <sup>h</sup> 56'	4 <sup>h</sup> 45'	26 <sup>h</sup> 51'	4 <sup>h</sup> 24'	2 <sup>h</sup> 12'	2 <sup>h</sup> 25'	5 <sup>h</sup> 7'	17 <sup>h</sup> 29'	21 <sup>h</sup> 14'	24 <sup>h</sup> 19'
F 30	8 36 3	9 <sup>h</sup> 49'56"	9 <sup>h</sup> 56'	10 <sup>h</sup> 32'	28 <sup>h</sup> 27'	5 <sup>h</sup> 2'	2 <sup>h</sup> 17'	2 <sup>h</sup> 28'	5 <sup>h</sup> 8'	17 <sup>h</sup> 29'	21 <sup>h</sup> 14'	24 <sup>h</sup> 20'
S 31	8 39 59	10 <sup>h</sup> 50'54"	10 <sup>h</sup> 55'	16 <sup>h</sup> 27'	0 <sup>h</sup> 11' 4"	5 <sup>h</sup> 41'	2 <sup>h</sup> 22'	2 <sup>h</sup> 30'	5 <sup>h</sup> 9'	17 <sup>h</sup> 30'	21 <sup>h</sup> 14'	24 <sup>h</sup> 20'

Delta T = 138.93 sec.

FEBRUARY 2060

00:00 UT

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

SWISS EPHEMERIS for the year 2060  
heliocentric

MARCH 2060

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♅	♁	♆	♇	♁
M 1	10 38 16	11♈ 9'30	11♈13	21♌46	18♌29	24♋41	5♈ 2	3♈36	5♈32	17♈41	21♈20	24♌44
T 2	10 42 12	12° 9'45	12°11	25° 9	20° 6	25°18	5° 8	3°38	5°32	17°41	21°20	24°45
W 3	10 46 9	13° 9'58	13° 9	28°28	21°43	25°56	5°13	3°41	5°33	17°42	21°20	24°46
T 4	10 50 6	14°10'09	14° 7	1♌42	23°20	26°34	5°18	3°43	5°34	17°42	21°20	24°47
F 5	10 54 2	15°10'18	15° 6	4°52	24°58	27°12	5°24	3°45	5°35	17°42	21°21	24°48
S 6	10 57 59	16°10'25	16° 4	7°59	26°35	27°49	5°29	3°47	5°35	17°43	21°21	24°48
S 7	11 1 55	17°10'30	17° 3	11° 3	28°12	28°27	5°34	3°49	5°36	17°43	21°21	24°49
M 8	11 5 52	18°10'33	18° 2	14° 3	29°50	29° 5	5°40	3°52	5°37	17°43	21°21	24°50
T 9	11 9 48	19°10'34	19° 2	17° 1	1♌27	29°42	5°45	3°54	5°38	17°44	21°21	24°51
W10	11 13 45	20°10'33	20° 2	19°57	3° 5	0♈20	5°50	3°56	5°38	17°44	21°22	24°52
T 11	11 17 41	21°10'29	21° 2	22°50	4°42	0°57	5°56	3°58	5°39	17°45	21°22	24°52
F 12	11 21 38	22°10'24	22° 3	25°42	6°19	1°35	6° 1	4° 0	5°40	17°45	21°22	24°53
S 13	11 25 35	23°10'16	23° 4	28°32	7°57	2°12	6° 6	4° 3	5°41	17°45	21°22	24°54
S 14	11 29 31	24°10'06	24° 5	1♌20	9°34	2°50	6°12	4° 5	5°41	17°46	21°22	24°55
M15	11 33 28	25° 9'54	25° 6	4° 8	11°12	3°27	6°17	4° 7	5°42	17°46	21°23	24°56
T 16	11 37 24	26° 9'39	26° 8	6°54	12°49	4° 5	6°22	4° 9	5°43	17°46	21°23	24°56
W17	11 41 21	27° 9'23	27° 9	9°40	14°27	4°42	6°28	4°11	5°44	17°47	21°23	24°57
T 18	11 45 17	28° 9'05	28°11	12°25	16° 4	5°19	6°33	4°14	5°44	17°47	21°23	24°58
F 19	11 49 14	29° 8'44	29°12	15°10	17°42	5°57	6°38	4°16	5°45	17°47	21°23	24°59
S 20	11 53 10	0♌ 8'22	0♌13	17°54	19°19	6°34	6°44	4°18	5°46	17°48	21°24	25° 0
S 21	11 57 7	1° 7'58	1°14	20°39	20°57	7°11	6°49	4°20	5°47	17°48	21°24	25° 0
M22	12 1 4	2° 7'32	2°15	23°24	22°34	7°48	6°54	4°23	5°47	17°49	21°24	25° 1
T 23	12 5 0	3° 7'05	3°15	26°10	24°12	8°25	7° 0	4°25	5°48	17°49	21°24	25° 2
W24	12 8 57	4° 6'36	4°15	28°56	25°49	9° 3	7° 5	4°27	5°49	17°49	21°24	25° 3
T 25	12 12 53	5° 6'05	5°15	1♌43	27°27	9°40	7°10	4°29	5°50	17°50	21°24	25° 4
F 26	12 16 50	6° 5'32	6°14	4°31	29° 5	10°17	7°15	4°31	5°50	17°50	21°25	25° 4
S 27	12 20 46	7° 4'57	7°13	7°20	0♈42	10°54	7°21	4°34	5°51	17°50	21°25	25° 5
S 28	12 24 43	8° 4'21	8°11	10°12	2°20	11°31	7°26	4°36	5°52	17°51	21°25	25° 6
M29	12 28 39	9° 3'43	9° 9	13° 4	3°57	12° 8	7°31	4°38	5°53	17°51	21°25	25° 7
T 30	12 32 36	10° 3'03	10° 7	15°59	5°35	12°45	7°37	4°40	5°53	17°52	21°25	25° 8
W31	12 36 33	11♌ 2'21	11♌ 5	18♌56	7♈12	13°21	7♈42	4♈42	5♈54	17♈52	21♈26	25♌ 8

Delta T = 139.23 sec.

APRIL 2060

00:00 UT

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

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SWISS EPHEMERIS for the year 2060  
heliocentric

MAY 2060

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
S 1	14 38 46	11♍23'35	11♍22	5♊ 2	27♄21	2♃ 1	10♉26	5♊51	6♌18	18♊ 3	21♋32	25♌33
S 2	14 42 42	12°21'52	12°19	11°18	28°58	2°37	10°32	5°53	6°18	18° 4	21°32	25°34
M 3	14 46 39	13°20'06	13°15	17°37	0♍34	3°12	10°37	5°56	6°19	18° 4	21°32	25°34
T 4	14 50 35	14°18'18	14°12	23°57	2°11	3°47	10°42	5°58	6°20	18° 4	21°32	25°35
W 5	14 54 32	15°16'29	15° 9	0♄15	3°47	4°22	10°48	6° 0	6°21	18° 5	21°33	25°36
T 6	14 58 29	16°14'37	16° 6	6°31	5°23	4°58	10°53	6° 2	6°21	18° 5	21°33	25°37
F 7	15 2 25	17°12'43	17° 4	12°44	7° 0	5°33	10°58	6° 4	6°22	18° 5	21°33	25°38
S 8	15 6 22	18°10'48	18° 2	18°51	8°36	6° 8	11° 3	6° 7	6°23	18° 6	21°33	25°38
S 9	15 10 18	19° 8'50	19° 0	24°52	10°12	6°43	11° 9	6° 9	6°24	18° 6	21°33	25°39
M10	15 14 15	20° 6'51	19°59	0♌45	11°48	7°17	11°14	6°11	6°24	18° 7	21°33	25°40
T 11	15 18 11	21° 4'50	20°58	6°31	13°24	7°52	11°19	6°13	6°25	18° 7	21°34	25°41
W12	15 22 8	22° 2'46	21°57	12° 7	15° 0	8°27	11°25	6°16	6°26	18° 7	21°34	25°42
T 13	15 26 4	23° 0'42	22°56	17°34	16°36	9° 2	11°30	6°18	6°27	18° 8	21°34	25°42
F 14	15 30 1	23°58'35	23°56	22°52	18°12	9°37	11°35	6°20	6°28	18° 8	21°34	25°43
S 15	15 33 57	24°56'27	24°55	28° 0	19°48	10°11	11°40	6°22	6°28	18° 8	21°34	25°44
S 16	15 37 54	25°54'18	25°55	2♍58	21°24	10°46	11°46	6°24	6°29	18° 9	21°35	25°45
M17	15 41 51	26°52'07	26°55	7°47	23° 0	11°20	11°51	6°27	6°30	18° 9	21°35	25°46
T 18	15 45 47	27°49'55	27°54	12°27	24°35	11°55	11°56	6°29	6°31	18°10	21°35	25°46
W19	15 49 44	28°47'42	28°53	16°57	26°11	12°29	12° 2	6°31	6°31	18°10	21°35	25°47
T 20	15 53 40	29°45'27	29°52	21°19	27°47	13° 3	12° 7	6°33	6°32	18°10	21°35	25°48
F 21	15 57 37	0♋43'11	0♋51	25°33	29°22	13°38	12°12	6°36	6°33	18°11	21°36	25°49
S 22	16 1 33	1°40'54	1°49	29°39	0♋58	14°12	12°17	6°38	6°34	18°11	21°36	25°49
S 23	16 5 30	2°38'36	2°47	3♌37	2°34	14°46	12°23	6°40	6°34	18°11	21°36	25°50
M24	16 9 27	3°36'17	3°45	7°28	4° 9	15°20	12°28	6°42	6°35	18°12	21°36	25°51
T 25	16 13 23	4°33'57	4°42	11°13	5°45	15°54	12°33	6°44	6°36	18°12	21°36	25°52
W26	16 17 20	5°31'36	5°38	14°52	7°20	16°28	12°39	6°47	6°37	18°12	21°37	25°53
T 27	16 21 16	6°29'14	6°34	18°25	8°56	17° 2	12°44	6°49	6°37	18°13	21°37	25°53
F 28	16 25 13	7°26'51	7°30	21°53	10°31	17°36	12°49	6°51	6°38	18°13	21°37	25°54
S 29	16 29 9	8°24'28	8°26	25°16	12° 6	18°10	12°54	6°53	6°39	18°14	21°37	25°55
S 30	16 33 6	9°22'03	9°22	28°34	13°42	18°44	13° 0	6°55	6°40	18°14	21°37	25°56
MB1	16 37 2	10♌19'37	10♌17	1♍48	15♌17	19♌18	13♊ 5	6♉58	6♌40	18♊14	21♋38	25♌57

Delta T = 139.54 sec.

JUNE 2060

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	16 40 59	11♌17'10	11♌13	4♌58	16♌52	19♌51	13♊10	7♊ 0	6♌41	18♊15	21♋38	25♌57
W 2	16 44 56	12°14'42	12° 9	8° 5	18°27	20°25	13°15	7° 2	6°42	18°15	21°38	25°58
T 3	16 48 52	13°12'12	13° 5	11° 9	20° 3	20°58	13°21	7° 4	6°43	18°15	21°38	25°59
F 4	16 52 49	14° 9'41	14° 2	14° 9	21°38	21°32	13°26	7° 7	6°43	18°16	21°38	26° 0
S 5	16 56 45	15° 7'09	14°58	17° 7	23°13	22° 5	13°31	7° 9	6°44	18°16	21°39	26° 1
S 6	17 0 42	16° 4'35	15°56	20° 3	24°48	22°39	13°37	7°11	6°45	18°17	21°39	26° 1
M 7	17 4 38	17° 2'01	16°53	22°56	26°23	23°12	13°42	7°13	6°46	18°17	21°39	26° 2
T 8	17 8 35	17°59'25	17°51	25°47	27°58	23°45	13°47	7°15	6°46	18°17	21°39	26° 3
W 9	17 12 31	18°56'48	18°49	28°37	29°33	24°18	13°52	7°18	6°47	18°18	21°39	26° 4
T 10	17 16 28	19°54'10	19°48	1♋26	1♃ 8	24°52	13°58	7°20	6°48	18°18	21°40	26° 4
F 11	17 20 25	20°51'32	20°46	4°13	2°43	25°25	14° 3	7°22	6°49	18°18	21°40	26° 5
S 12	17 24 21	21°48'52	21°45	6°59	4°18	25°58	14° 8	7°24	6°49	18°19	21°40	26° 6
S 13	17 28 18	22°46'12	22°44	9°45	5°53	26°31	14°13	7°27	6°50	18°19	21°40	26° 7
M14	17 32 14	23°43'30	23°43	12°30	7°28	27° 4	14°19	7°29	6°51	18°19	21°40	26° 8
T 15	17 36 11	24°40'49	24°42	15°15	9° 3	27°37	14°24	7°31	6°52	18°20	21°41	26° 8
W16	17 40 7	25°38'06	25°41	18° 0	10°38	28° 9	14°29	7°33	6°52	18°20	21°41	26° 9
T 17	17 44 4	26°35'23	26°40	20°44	12°13	28°42	14°34	7°35	6°53	18°21	21°41	26°10
F 18	17 48 0	27°32'40	27°39	23°29	13°48	29°15	14°40	7°38	6°54	18°21	21°41	26°11
S 19	17 51 57	28°29'56	28°37	26°15	15°23	29°47	14°45	7°40	6°55	18°21	21°41	26°12
S 20	17 55 54	29°27'12	29°35	29° 1	16°58	0♉20	14°50	7°42	6°56	18°22	21°42	26°12
M21	17 59 50	0♈24'27	0♈33	1♈48	18°33	0°53	14°56	7°44	6°56	18°22	21°42	26°13
T 22	18 3 47	1°21'43	1°30	4°36	20° 7	1°25	15° 1	7°47	6°57	18°22	21°42	26°14
W23	18 7 43	2°18'58	2°27	7°26	21°42	1°57	15° 6	7°49	6°58	18°23	21°42	26°15
T 24	18 11 40	3°16'14	3°23	10°17	23°17	2°30	15°11	7°51	6°59	18°23	21°42	26°15
F 25	18 15 36	4°13'29	4°19	13°10	24°52	3° 2	15°17	7°53	6°59	18°24	21°43	26°16
S 26	18 19 33	5°10'44	5°15	16° 5	26°27	3°34	15°22	7°55	7° 0	18°24	21°43	26°17
S 27	18 23 30	6° 7'59	6°10	19° 2	28° 2	4° 7	15°27	7°58	7° 1	18°24	21°43	26°18
M28	18 27 26	7° 5'14	7° 5	22° 2	29°37	4°39	15°32	8° 0	7° 2	18°25	21°43	26°19
T 29	18 31 23	8° 2'29	8° 1	25° 4	1♌11	5°11	15°38	8° 2	7° 2	18°25	21°43	26°19
W30	18 35 19	8♈59'44	8♈56	28♈ 9	2♌46	5♊43	15♊43	8♊ 4	7♌ 3	18♊25	21♋43	26♌20

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SWISS EPHEMERIS for the year 2060  
heliocentric

JULY 2060

00:00 UT

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

Delta T = 139.84 sec.

AUGUST 2060

00:00 UT

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

Delta T = 140.00 sec.

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SWISS EPHEMERIS for the year 2060  
heliocentric

SEPTEMBER 2060

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♁	♃	♅	♁
W 1	22 43 42	9 <sup>h</sup> 20'32	9 <sup>h</sup> 12	17 <sup>m</sup> 13	12 <sup>s</sup> 54	7 <sup>h</sup> 37	21 <sup>m</sup> 13	10 <sup>s</sup> 24	7 <sup>h</sup> 51	18 <sup>m</sup> 49	21 <sup>s</sup> 56	27 <sup>h</sup> 9
T 2	22 47 39	10°18'36	10°10	20° 8	14°30	8° 6	21°18	10°27	7°51	18°49	21°56	27°10
F 3	22 51 35	11°16'41	11° 8	23° 1	16° 6	8°35	21°23	10°29	7°52	18°49	21°56	27°11
S 4	22 55 32	12°14'48	12° 6	25°53	17°42	9° 3	21°28	10°31	7°53	18°50	21°56	27°12
S 5	22 59 28	13°12'57	13° 5	28°43	19°19	9°32	21°33	10°33	7°54	18°50	21°57	27°12
M 6	23 3 25	14°11'07	14° 4	1 <sup>h</sup> 7'31	20°55	10° 1	21°39	10°35	7°54	18°50	21°57	27°13
T 7	23 7 22	15° 9'18	15° 3	4°18	22°31	10°30	21°44	10°38	7°55	18°51	21°57	27°14
W 8	23 11 18	16° 7'31	16° 3	7° 5	24° 7	10°58	21°49	10°40	7°56	18°51	21°57	27°15
T 9	23 15 15	17° 5'45	17° 3	9°50	25°44	11°27	21°54	10°42	7°57	18°51	21°57	27°15
F 10	23 19 11	18° 4'01	18° 3	12°35	27°20	11°55	21°59	10°44	7°57	18°52	21°58	27°16
S 11	23 23 8	19° 2'19	19° 3	15°20	28°56	12°24	22° 5	10°47	7°58	18°52	21°58	27°17
S 12	23 27 4	20° 0'38	20° 4	18° 5	0 <sup>h</sup> 11'33	12°52	22°10	10°49	7°59	18°53	21°58	27°18
M13	23 31 1	20°58'59	21° 4	20°50	2° 9	13°21	22°15	10°51	8° 0	18°53	21°58	27°18
T 14	23 34 57	21°57'23	22° 4	23°35	3°45	13°49	22°20	10°53	8° 0	18°53	21°58	27°19
W15	23 38 54	22°55'49	23° 3	26°20	5°22	14°18	22°25	10°55	8° 1	18°54	21°59	27°20
T 16	23 42 51	23°54'17	24° 2	29° 6	6°58	14°46	22°31	10°58	8° 2	18°54	21°59	27°21
F 17	23 46 47	24°52'47	25° 1	1 <sup>h</sup> 3'54	8°35	15°14	22°36	11° 0	8° 3	18°54	21°59	27°22
S 18	23 50 44	25°51'19	26° 0	4°42	10°12	15°43	22°41	11° 2	8° 3	18°55	21°59	27°22
S 19	23 54 40	26°49'54	26°58	7°31	11°48	16°11	22°46	11° 4	8° 4	18°55	21°59	27°23
M20	23 58 37	27°48'30	27°56	10°23	13°25	16°39	22°51	11° 7	8° 5	18°55	22° 0	27°24
T 21	0 2 33	28°47'09	28°53	13°16	15° 1	17° 7	22°57	11° 9	8° 6	18°56	22° 0	27°25
W22	0 6 30	29°45'50	29°50	16°10	16°38	17°35	23° 2	11°11	8° 7	18°56	22° 0	27°25
T 23	0 10 26	0 <sup>h</sup> 44'33	0 <sup>h</sup> 47	19° 8	18°15	18° 4	23° 7	11°13	8° 7	18°57	22° 0	27°26
F 24	0 14 23	1°43'18	1°44	22° 7	19°52	18°32	23°12	11°16	8° 8	18°57	22° 0	27°27
S 25	0 18 20	2°42'05	2°41	25°10	21°28	19° 0	23°17	11°18	8° 9	18°57	22° 0	27°28
S 26	0 22 16	3°40'54	3°39	28°15	23° 5	19°28	23°23	11°20	8°10	18°58	22° 1	27°29
M27	0 26 13	4°39'44	4°36	1 <sup>h</sup> 24	24°42	19°56	23°28	11°22	8°10	18°58	22° 1	27°29
T 28	0 30 9	5°38'37	5°33	4°36	26°19	20°24	23°33	11°24	8°11	18°58	22° 1	27°30
W29	0 34 6	6°37'32	6°31	7°52	27°56	20°51	23°38	11°27	8°12	18°59	22° 1	27°31
T 30	0 38 2	7°36'28	7°29	11 <sup>h</sup> 12	29 <sup>m</sup> 33	21 <sup>s</sup> 19	23 <sup>h</sup> 43	11 <sup>m</sup> 29	8 <sup>s</sup> 13	18 <sup>h</sup> 59	22 <sup>m</sup> 1	27 <sup>s</sup> 32

Delta T = 140.15 sec.

OCTOBER 2060

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♁	♃	♅	♁
F 1	0 41 59	8 <sup>h</sup> 35'27	8 <sup>h</sup> 27	14 <sup>m</sup> 37	1 <sup>s</sup> 10	21 <sup>h</sup> 47	23 <sup>m</sup> 49	11 <sup>s</sup> 31	8 <sup>h</sup> 13	19 <sup>m</sup> 0	22 <sup>s</sup> 2	27 <sup>h</sup> 32
S 2	0 45 55	9°34'27	9°25	18° 7	2°47	22°15	23°54	11°33	8°14	19° 0	22° 2	27°33
S 3	0 49 52	10°33'29	10°25	21°41	4°24	22°43	23°59	11°36	8°15	19° 0	22° 2	27°34
M 4	0 53 49	11°32'32	11°24	25°21	6° 1	23°11	24° 4	11°38	8°16	19° 1	22° 2	27°35
T 5	0 57 45	12°31'38	12°24	29° 8	7°38	23°38	24° 9	11°40	8°16	19° 1	22° 2	27°35
W 6	1 1 42	13°30'45	13°24	3 <sup>h</sup> 0	9°15	24° 6	24°15	11°42	8°17	19° 1	22° 3	27°36
T 7	1 5 38	14°29'53	14°25	6°59	10°52	24°34	24°20	11°44	8°18	19° 2	22° 3	27°37
F 8	1 9 35	15°29'04	15°26	11° 5	12°29	25° 1	24°25	11°47	8°19	19° 2	22° 3	27°38
S 9	1 13 31	16°28'16	16°27	15°18	14° 6	25°29	24°30	11°49	8°19	19° 2	22° 3	27°39
S 10	1 17 28	17°27'31	17°28	19°39	15°43	25°56	24°35	11°51	8°20	19° 3	22° 3	27°39
M11	1 21 24	18°26'47	18°29	24° 8	17°21	26°24	24°40	11°53	8°21	19° 3	22° 4	27°40
T 12	1 25 21	19°26'06	19°30	28°45	18°58	26°51	24°46	11°56	8°22	19° 4	22° 4	27°41
W13	1 29 17	20°25'27	20°31	3 <sup>h</sup> 31	20°35	27°19	24°51	11°58	8°22	19° 4	22° 4	27°42
T 14	1 33 14	21°24'50	21°32	8°26	22°12	27°46	24°56	12° 0	8°23	19° 4	22° 4	27°42
F 15	1 37 11	22°24'16	22°32	13°30	23°50	28°14	25° 1	12° 2	8°24	19° 5	22° 4	27°43
S 16	1 41 7	23°23'44	23°32	18°44	25°27	28°41	25° 6	12° 4	8°25	19° 5	22° 5	27°44
S 17	1 45 4	24°23'14	24°32	24° 6	27° 4	29° 8	25°12	12° 7	8°25	19° 5	22° 5	27°45
M18	1 49 0	25°22'47	25°31	29°37	28°42	29°36	25°17	12° 9	8°26	19° 6	22° 5	27°45
T 19	1 52 57	26°22'22	26°30	5 <sup>h</sup> 17	0 <sup>h</sup> 19	0 <sup>h</sup> 3	25°22	12°11	8°27	19° 6	22° 5	27°46
W20	1 56 53	27°21'59	27°29	11° 5	1°57	0°30	25°27	12°13	8°28	19° 6	22° 5	27°47
T 21	2 0 50	28°21'38	28°27	17° 1	3°34	0°58	25°32	12°16	8°28	19° 7	22° 6	27°48
F 22	2 4 46	29°21'19	29°25	23° 3	5°11	1°25	25°37	12°18	8°29	19° 7	22° 6	27°49
S 23	2 8 43	0 <sup>h</sup> 21'03	0 <sup>h</sup> 23	29°12	6°49	1°52	25°43	12°20	8°30	19° 8	22° 6	27°49
S 24	2 12 40	1°20'48	1°22	5 <sup>h</sup> 25	8°26	2°19	25°48	12°22	8°31	19° 8	22° 6	27°50
M25	2 16 36	2°20'36	2°20	11°42	10° 4	2°46	25°53	12°24	8°31	19° 8	22° 6	27°51
T 26	2 20 33	3°20'25	3°18	18° 1	11°41	3°14	25°58	12°27	8°32	19° 9	22° 6	27°52
W27	2 24 29	4°20'16	4°16	24°20	13°19	3°41	26° 3	12°29	8°33	19° 9	22° 7	27°52
T 28	2 28 26	5°20'10	5°14	0 <sup>h</sup> 38	14°56	4° 8	26° 8	12°31	8°34	19° 9	22° 7	27°53
F 29	2 32 22	6°20'05	6°13	6°54	16°34	4°35	26°14	12°33	8°34	19°10	22° 7	27°54
S 30	2 36 19	7°20'02	7°12	13° 6	18°11	5° 2	26°19	12°36	8°35	19°10	22° 7	27°55
S 31	2 40 15	8°20'00	8°11	19 <sup>h</sup> 13	19 <sup>m</sup> 49	5 <sup>s</sup> 29	26 <sup>h</sup> 24	12 <sup>m</sup> 38	8 <sup>s</sup> 36	19 <sup>h</sup> 11	22 <sup>m</sup> 7	27 <sup>s</sup> 55

Delta T = 140.30 sec.

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SWISS EPHEMERIS for the year 2060  
heliocentric

NOVEMBER 2060

00:00 UT

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

Delta T = 140.46 sec.

DECEMBER 2060

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
W 1	4 42 29	9♁33'07	9♁24	25♁58	10♁7	19♁17	29♁4	13♁47	8♁59	19♁22	22♁14	28♁19
T 2	4 46 25	10°33'55	10°25	28°48	11°44	19°43	29°9	13°49	9°0	19°22	22°14	28°20
F 3	4 50 22	11°34'45	11°27	1♁37	13°21	20°10	29°14	13°51	9°1	19°23	22°14	28°21
S 4	4 54 18	12°35'35	12°29	4°24	14°58	20°36	29°19	13°54	9°2	19°23	22°14	28°21
S 5	4 58 15	13°36'26	13°31	7°10	16°34	21°3	29°25	13°56	9°2	19°23	22°14	28°22
M 6	5 2 12	14°37'18	14°34	9°56	18°11	21°29	29°30	13°58	9°3	19°24	22°15	28°23
T 7	5 6 8	15°38'11	15°37	12°41	19°48	21°55	29°35	14°0	9°4	19°24	22°15	28°24
W 8	5 10 5	16°39'05	16°40	15°25	21°25	22°22	29°40	14°3	9°5	19°25	22°15	28°25
T 9	5 14 1	17°40'00	17°43	18°10	23°1	22°48	29°45	14°5	9°5	19°25	22°15	28°25
F 10	5 17 58	18°40'56	18°46	20°55	24°38	23°15	29°50	14°7	9°6	19°25	22°15	28°26
S 11	5 21 54	19°41'54	19°48	23°40	26°14	23°41	29°55	14°9	9°7	19°26	22°15	28°27
S 12	5 25 51	20°42'52	20°50	26°26	27°51	24°7	0♁1	14°11	9°8	19°26	22°16	28°28
M13	5 29 47	21°43'51	21°52	29°12	29°27	24°34	0°6	14°14	9°8	19°26	22°16	28°28
T 14	5 33 44	22°44'51	22°54	1♁59	1♁4	25°0	0°11	14°16	9°9	19°27	22°16	28°29
W15	5 37 41	23°45'53	23°55	4°47	2°40	25°26	0°16	14°18	9°10	19°27	22°16	28°30
T 16	5 41 37	24°46'55	24°56	7°37	4°17	25°53	0°21	14°20	9°11	19°27	22°16	28°31
F 17	5 45 34	25°47'58	25°57	10°28	5°53	26°19	0°26	14°23	9°11	19°28	22°17	28°31
S 18	5 49 30	26°49'02	26°57	13°21	7°29	26°45	0°31	14°25	9°12	19°28	22°17	28°32
S 19	5 53 27	27°50'07	27°57	16°16	9°5	27°11	0°36	14°27	9°13	19°29	22°17	28°33
M20	5 57 23	28°51'13	28°56	19°13	10°41	27°38	0°42	14°29	9°14	19°29	22°17	28°34
T 21	6 1 20	29°52'20	29°56	22°13	12°18	28°4	0°47	14°32	9°14	19°29	22°17	28°34
W22	6 5 16	0♁53'27	0♁55	25°16	13°54	28°30	0°52	14°34	9°15	19°30	22°18	28°35
T 23	6 9 13	1°54'35	1°54	28°21	15°30	28°56	0°57	14°36	9°16	19°30	22°18	28°36
F 24	6 13 10	2°55'43	2°54	1♁30	17°6	29°23	1°2	14°38	9°17	19°30	22°18	28°37
S 25	6 17 6	3°56'52	3°53	4°42	18°42	29°49	1°7	14°40	9°17	19°31	22°18	28°38
S 26	6 21 3	4°58'00	4°53	7°58	20°17	0♁15	1°12	14°43	9°18	19°31	22°18	28°38
M27	6 24 59	5°59'09	5°53	11°19	21°53	0°41	1°18	14°45	9°19	19°32	22°19	28°39
T 28	6 28 56	7°0'18	6°53	14°44	23°29	1°8	1°23	14°47	9°20	19°32	22°19	28°40
W29	6 32 52	8°1'27	7°53	18°13	25°5	1°34	1°28	14°49	9°20	19°32	22°19	28°41
T 30	6 36 49	9°2'36	8°54	21°48	26°41	2°0	1°33	14°52	9°21	19°33	22°19	28°41
F 31	6 40 46	10♁3'45	9♁55	25♁29	28♁16	2♁26	1♁38	14♁54	9♁22	19♁33	22♁19	28♁42

Delta T = 140.61 sec.

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