

SWISS EPHEMERIS for the year 2165
heliocentric

JANUARY 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	6 43 59	10 ⁵ 49'50	10 ⁵ 56	4 ³ 17	18 ⁷ 7	8 ⁷ 8	2 ⁷ 32	0 ³ 3	6 ⁴ 42	6 ³ 38	6 ⁵ 51	18 ⁷ 38
W 2	6 47 55	11 ⁰ 50'57	11 ⁰ 58	7 ⁰ 6	19 ⁰ 42	8 ⁰ 40	2 ⁰ 37	0 ⁰ 5	6 ⁰ 43	6 ⁰ 38	6 ⁰ 51	18 ⁰ 38
T 3	6 51 52	12 ⁰ 52'05	13 ⁰ 0	9 ⁰ 56	21 ⁰ 18	9 ⁰ 11	2 ⁰ 42	0 ⁰ 6	6 ⁰ 43	6 ⁰ 38	6 ⁰ 52	18 ⁰ 39
F 4	6 55 48	13 ⁰ 53'13	14 ⁰ 2	12 ⁰ 47	22 ⁰ 53	9 ⁰ 43	2 ⁰ 48	0 ⁰ 8	6 ⁰ 44	6 ⁰ 39	6 ⁰ 52	18 ⁰ 40
S 5	6 59 45	14 ⁰ 54'21	15 ⁰ 4	15 ⁰ 41	24 ⁰ 28	10 ⁰ 15	2 ⁰ 53	0 ⁰ 10	6 ⁰ 45	6 ⁰ 39	6 ⁰ 52	18 ⁰ 40
S 6	7 3 41	15 ⁰ 55'30	16 ⁰ 5	18 ⁰ 36	26 ⁰ 3	10 ⁰ 47	2 ⁰ 59	0 ⁰ 12	6 ⁰ 45	6 ⁰ 39	6 ⁰ 52	18 ⁰ 41
M 7	7 7 38	16 ⁰ 56'39	17 ⁰ 5	21 ⁰ 34	27 ⁰ 38	11 ⁰ 19	3 ⁰ 4	0 ⁰ 14	6 ⁰ 46	6 ⁰ 40	6 ⁰ 52	18 ⁰ 42
T 8	7 11 35	17 ⁰ 57'48	18 ⁰ 6	24 ⁰ 34	29 ⁰ 13	11 ⁰ 51	3 ⁰ 10	0 ⁰ 15	6 ⁰ 47	6 ⁰ 40	6 ⁰ 52	18 ⁰ 42
W 9	7 15 31	18 ⁰ 58'57	19 ⁰ 6	27 ⁰ 38	0 ³ 48	12 ⁰ 23	3 ⁰ 15	0 ⁰ 17	6 ⁰ 47	6 ⁰ 41	6 ⁰ 53	18 ⁰ 43
T 10	7 19 28	20 ⁰ 0'07	20 ⁰ 5	0 ⁰ 44	2 ⁰ 23	12 ⁰ 56	3 ⁰ 21	0 ⁰ 19	6 ⁰ 48	6 ⁰ 41	6 ⁰ 53	18 ⁰ 44
F 11	7 23 24	21 ⁰ 1'17	21 ⁰ 5	3 ⁰ 54	3 ⁰ 58	13 ⁰ 28	3 ⁰ 26	0 ⁰ 21	6 ⁰ 49	6 ⁰ 41	6 ⁰ 53	18 ⁰ 44
S 12	7 27 21	22 ⁰ 2'26	22 ⁰ 4	7 ⁰ 7	5 ⁰ 33	14 ⁰ 0	3 ⁰ 32	0 ⁰ 23	6 ⁰ 49	6 ⁰ 42	6 ⁰ 53	18 ⁰ 45
S 13	7 31 17	23 ⁰ 3'36	23 ⁰ 3	10 ⁰ 24	7 ⁰ 8	14 ⁰ 33	3 ⁰ 37	0 ⁰ 25	6 ⁰ 50	6 ⁰ 42	6 ⁰ 53	18 ⁰ 46
M14	7 35 14	24 ⁰ 4'45	24 ⁰ 2	13 ⁰ 45	8 ⁰ 43	15 ⁰ 5	3 ⁰ 43	0 ⁰ 26	6 ⁰ 51	6 ⁰ 42	6 ⁰ 54	18 ⁰ 46
T 15	7 39 11	25 ⁰ 5'53	25 ⁰ 1	17 ⁰ 11	10 ⁰ 18	15 ⁰ 38	3 ⁰ 48	0 ⁰ 28	6 ⁰ 51	6 ⁰ 43	6 ⁰ 54	18 ⁰ 47
W16	7 43 7	26 ⁰ 7'02	26 ⁰ 1	20 ⁰ 42	11 ⁰ 53	16 ⁰ 10	3 ⁰ 54	0 ⁰ 30	6 ⁰ 52	6 ⁰ 43	6 ⁰ 54	18 ⁰ 48
T 17	7 47 4	27 ⁰ 8'09	27 ⁰ 1	24 ⁰ 19	13 ⁰ 28	16 ⁰ 43	3 ⁰ 59	0 ⁰ 32	6 ⁰ 53	6 ⁰ 43	6 ⁰ 54	18 ⁰ 48
F 18	7 51 0	28 ⁰ 9'16	28 ⁰ 1	28 ⁰ 0	15 ⁰ 3	17 ⁰ 15	4 ⁰ 5	0 ⁰ 34	6 ⁰ 53	6 ⁰ 44	6 ⁰ 54	18 ⁰ 49
S 19	7 54 57	29 ⁰ 10'22	29 ⁰ 2	1 ⁷ 48	16 ⁰ 38	17 ⁰ 48	4 ⁰ 10	0 ⁰ 35	6 ⁰ 54	6 ⁰ 44	6 ⁰ 54	18 ⁰ 50
S 20	7 58 53	0 ⁰ 11'27	0 ⁰ 3	5 ⁰ 42	18 ⁰ 13	18 ⁰ 21	4 ⁰ 16	0 ⁰ 37	6 ⁰ 55	6 ⁰ 44	6 ⁰ 55	18 ⁰ 50
M21	8 2 50	1 ⁰ 12'31	1 ⁰ 4	9 ⁰ 43	19 ⁰ 48	18 ⁰ 54	4 ⁰ 21	0 ⁰ 39	6 ⁰ 55	6 ⁰ 45	6 ⁰ 55	18 ⁰ 51
T 22	8 6 46	2 ⁰ 13'35	2 ⁰ 6	13 ⁰ 51	21 ⁰ 23	19 ⁰ 27	4 ⁰ 27	0 ⁰ 41	6 ⁰ 56	6 ⁰ 45	6 ⁰ 55	18 ⁰ 52
W23	8 10 43	3 ⁰ 14'38	3 ⁰ 8	18 ⁰ 6	22 ⁰ 57	20 ⁰ 0	4 ⁰ 32	0 ⁰ 43	6 ⁰ 57	6 ⁰ 46	6 ⁰ 55	18 ⁰ 52
T 24	8 14 40	4 ⁰ 15'40	4 ⁰ 10	22 ⁰ 29	24 ⁰ 32	20 ⁰ 33	4 ⁰ 38	0 ⁰ 44	6 ⁰ 57	6 ⁰ 46	6 ⁰ 55	18 ⁰ 53
F 25	8 18 36	5 ⁰ 16'41	5 ⁰ 13	27 ⁰ 0	26 ⁰ 7	21 ⁰ 6	4 ⁰ 43	0 ⁰ 46	6 ⁰ 58	6 ⁰ 46	6 ⁰ 55	18 ⁰ 53
S 26	8 22 33	6 ⁰ 17'41	6 ⁰ 15	1 ⁷ 40	27 ⁰ 42	21 ⁰ 39	4 ⁰ 49	0 ⁰ 48	6 ⁰ 59	6 ⁰ 47	6 ⁰ 56	18 ⁰ 54
S 27	8 26 29	7 ⁰ 18'41	7 ⁰ 18	6 ⁰ 29	29 ⁰ 17	22 ⁰ 12	4 ⁰ 54	0 ⁰ 50	6 ⁰ 59	6 ⁰ 47	6 ⁰ 56	18 ⁰ 55
M28	8 30 26	8 ⁰ 19'39	8 ⁰ 21	11 ⁰ 26	0 ⁰ 52	22 ⁰ 45	5 ⁰ 0	0 ⁰ 52	7 ⁰ 0	6 ⁰ 47	6 ⁰ 56	18 ⁰ 55
T 29	8 34 22	9 ⁰ 20'37	9 ⁰ 24	16 ⁰ 32	2 ⁰ 27	23 ⁰ 19	5 ⁰ 5	0 ⁰ 53	7 ⁰ 1	6 ⁰ 48	6 ⁰ 56	18 ⁰ 56
W30	8 38 19	10 ⁰ 21'34	10 ⁰ 26	21 ⁰ 48	4 ⁰ 2	23 ⁰ 52	5 ⁰ 10	0 ⁰ 55	7 ⁰ 1	6 ⁰ 48	6 ⁰ 56	18 ⁰ 57
T 31	8 42 15	11 ⁰ 22'30	11 ⁰ 29	27 ⁰ 13	5 ⁰ 36	24 ⁰ 25	5 ⁰ 16	0 ⁰ 57	7 ⁰ 2	6 ⁰ 48	6 ⁰ 57	18 ⁰ 57

Delta T = 05m48s

FEBRUARY 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
F 1	8 46 12	12 ⁰ 23'26	12 ⁰ 31	2 ⁸ 46	7 ⁷ 11	24 ⁷ 59	5 ⁷ 21	0 ³ 59	7 ⁷ 3	6 ⁶ 49	6 ⁵ 57	18 ⁷ 58
S 2	8 50 9	13 ⁰ 24'21	13 ⁰ 33	8 ⁰ 29	8 ⁰ 46	25 ⁰ 32	5 ⁰ 27	1 ⁰ 1	7 ⁰ 3	6 ⁰ 49	6 ⁰ 57	18 ⁰ 59
S 3	8 54 5	14 ⁰ 25'15	14 ⁰ 34	14 ⁰ 19	10 ⁰ 21	26 ⁰ 6	5 ⁰ 32	1 ⁰ 2	7 ⁰ 4	6 ⁰ 50	6 ⁰ 57	18 ⁰ 59
M 4	8 58 2	15 ⁰ 26'08	15 ⁰ 35	20 ⁰ 17	11 ⁰ 56	26 ⁰ 40	5 ⁰ 38	1 ⁰ 4	7 ⁰ 5	6 ⁰ 50	6 ⁰ 57	19 ⁰ 0
T 5	9 1 58	16 ⁰ 27'01	16 ⁰ 36	26 ⁰ 21	13 ⁰ 31	27 ⁰ 13	5 ⁰ 43	1 ⁰ 6	7 ⁰ 5	6 ⁰ 50	6 ⁰ 57	19 ⁰ 1
W 6	9 5 55	17 ⁰ 27'53	17 ⁰ 36	2 ¹¹ 31	15 ⁰ 6	27 ⁰ 47	5 ⁰ 49	1 ⁰ 8	7 ⁰ 6	6 ⁰ 51	6 ⁰ 58	19 ⁰ 1
T 7	9 9 51	18 ⁰ 28'44	18 ⁰ 36	8 ⁰ 45	16 ⁰ 41	28 ⁰ 21	5 ⁰ 54	1 ⁰ 10	7 ⁰ 7	6 ⁰ 51	6 ⁰ 58	19 ⁰ 2
F 8	9 13 48	19 ⁰ 29'34	19 ⁰ 35	15 ⁰ 3	18 ⁰ 16	28 ⁰ 55	6 ⁰ 0	1 ⁰ 11	7 ⁰ 7	6 ⁰ 51	6 ⁰ 58	19 ⁰ 3
S 9	9 17 44	20 ⁰ 30'24	20 ⁰ 35	21 ⁰ 22	19 ⁰ 51	29 ⁰ 29	6 ⁰ 5	1 ⁰ 13	7 ⁰ 8	6 ⁰ 52	6 ⁰ 58	19 ⁰ 3
S 10	9 21 41	21 ⁰ 31'12	21 ⁰ 34	27 ⁰ 41	21 ⁰ 25	0 ³ 3	6 ⁰ 11	1 ⁰ 15	7 ⁰ 9	6 ⁰ 52	6 ⁰ 58	19 ⁰ 4
M11	9 25 38	22 ⁰ 31'59	22 ⁰ 32	3 ⁹ 59	23 ⁰ 0	0 ⁰ 37	6 ⁰ 16	1 ⁰ 17	7 ⁰ 9	6 ⁰ 52	6 ⁰ 59	19 ⁰ 5
T 12	9 29 34	23 ⁰ 32'45	23 ⁰ 31	10 ⁰ 14	24 ⁰ 35	1 ⁰ 11	6 ⁰ 22	1 ⁰ 19	7 ⁰ 10	6 ⁰ 53	6 ⁰ 59	19 ⁰ 5
W13	9 33 31	24 ⁰ 33'29	24 ⁰ 30	16 ⁰ 25	26 ⁰ 10	1 ⁰ 45	6 ⁰ 27	1 ⁰ 20	7 ⁰ 11	6 ⁰ 53	6 ⁰ 59	19 ⁰ 6
T 14	9 37 27	25 ⁰ 34'12	25 ⁰ 29	22 ⁰ 30	27 ⁰ 45	2 ⁰ 19	6 ⁰ 33	1 ⁰ 22	7 ⁰ 11	6 ⁰ 54	6 ⁰ 59	19 ⁰ 7
F 15	9 41 24	26 ⁰ 34'53	26 ⁰ 28	28 ⁰ 29	29 ⁰ 20	2 ⁰ 54	6 ⁰ 38	1 ⁰ 24	7 ⁰ 12	6 ⁰ 54	6 ⁰ 59	19 ⁰ 7
S 16	9 45 20	27 ⁰ 35'33	27 ⁰ 28	4 ⁰ 20	0 ⁷ 55	3 ⁰ 28	6 ⁰ 44	1 ⁰ 26	7 ⁰ 13	6 ⁰ 54	6 ⁰ 59	19 ⁰ 8
S 17	9 49 17	28 ⁰ 36'11	28 ⁰ 27	10 ⁰ 2	2 ⁰ 30	4 ⁰ 2	6 ⁰ 49	1 ⁰ 28	7 ⁰ 13	6 ⁰ 55	7 ⁰ 0	19 ⁰ 8
M18	9 53 13	29 ⁰ 36'47	29 ⁰ 28	15 ⁰ 36	4 ⁰ 6	4 ⁰ 37	6 ⁰ 55	1 ⁰ 30	7 ⁰ 14	6 ⁰ 55	7 ⁰ 0	19 ⁰ 9
T 19	9 57 10	0 ⁰ 37'22	0 ⁰ 28	21 ⁰ 0	5 ⁰ 41	5 ⁰ 11	7 ⁰ 0	1 ⁰ 31	7 ⁰ 15	6 ⁰ 55	7 ⁰ 0	19 ⁰ 10
W20	10 1 6	1 ⁰ 37'55	1 ⁰ 29	26 ⁰ 14	7 ⁰ 16	5 ⁰ 46	7 ⁰ 6	1 ⁰ 33	7 ⁰ 15	6 ⁰ 56	7 ⁰ 0	19 ⁰ 10
T 21	10 5 3	2 ⁰ 38'26	2 ⁰ 31	1 ¹¹ 19	8 ⁰ 51	6 ⁰ 20	7 ⁰ 11	1 ⁰ 35	7 ⁰ 16	6 ⁰ 56	7 ⁰ 0	19 ⁰ 11
F 22	10 9 0	3 ⁰ 38'56	3 ⁰ 32	6 ⁰ 14	10 ⁰ 26	6 ⁰ 55	7 ⁰ 17	1 ⁰ 37	7 ⁰ 17	6 ⁰ 56	7 ⁰ 1	19 ⁰ 12
S 23	10 12 56	4 ⁰ 39'23	4 ⁰ 34	11 ⁰ 0	12 ⁰ 1	7 ⁰ 30	7 ⁰ 22	1 ⁰ 39	7 ⁰ 17	6 ⁰ 57	7 ⁰ 1	19 ⁰ 12
S 24	10 16 53	5 ⁰ 39'49	5 ⁰ 36	15 ⁰ 36	13 ⁰ 36	8 ⁰ 5	7 ⁰ 28	1 ⁰ 40	7 ⁰ 18	6 ⁰ 57	7 ⁰ 1	19 ⁰ 13
M25	10 20 49	6 ⁰ 40'13	6 ⁰ 38	20 ⁰ 4	15 ⁰ 11	8 ⁰ 39	7 ⁰ 33	1 ⁰ 42	7 ⁰ 19	6 ⁰ 57	7 ⁰ 1	19 ⁰ 14
T 26	10 24 46	7 ⁰ 40'36	7 ⁰ 40	24 ⁰ 23	16 ⁰ 47	9 ⁰ 14	7 ⁰ 39	1 ⁰ 44	7 ⁰ 19	6 ⁰ 58	7 ⁰ 1	19 ⁰ 14
W27	10 28 42	8 ⁰ 40'57	8 ⁰ 43	28 ⁰ 34	18 ⁰ 22	9 ⁰ 49	7 ⁰ 44	1 ⁰ 46	7 ⁰ 20	6 ⁰ 58	7 ⁰ 1	19 ⁰ 15
T 28	10 32 39	9 ⁰ 41'16	9 ⁰ 45	2 ⁰ 37	19 ⁰ 57	10 ⁰ 24	7 ⁰ 50	1 ⁰ 48	7 ⁰ 20	6 ⁰ 59	7 ⁰ 2	19 ⁰ 16

Delta T = 05m49s

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SWISS EPHEMERIS for the year 2165
heliocentric

MARCH 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
F 1	10 36 35	10 ^h 41'33"	10 ^h 46'	6 ^h 33'	21 ^h 32'	10 ^h 59'	7 ^h 55'	1 ^h 49'	7 ^h 21'	6 ^h 59'	7 ^h 2'	19 ^h 16'
S 2	10 40 32	11 ^h 41'49"	11 ^h 48'	10 ^h 22'	23 ^h 8'	11 ^h 34'	8 ^h 1'	1 ^h 51'	7 ^h 22'	6 ^h 59'	7 ^h 2'	19 ^h 17'
S 3	10 44 29	12 ^h 42'04"	12 ^h 49'	14 ^h 5'	24 ^h 43'	12 ^h 10'	8 ^h 6'	1 ^h 53'	7 ^h 22'	7 ^h 0'	7 ^h 2'	19 ^h 18'
M 4	10 48 25	13 ^h 42'17"	13 ^h 51'	17 ^h 42'	26 ^h 18'	12 ^h 45'	8 ^h 12'	1 ^h 55'	7 ^h 23'	7 ^h 0'	7 ^h 2'	19 ^h 18'
T 5	10 52 22	14 ^h 42'29"	14 ^h 51'	21 ^h 13'	27 ^h 54'	13 ^h 20'	8 ^h 17'	1 ^h 57'	7 ^h 24'	7 ^h 0'	7 ^h 2'	19 ^h 19'
W 6	10 56 18	15 ^h 42'39"	15 ^h 51'	24 ^h 39'	29 ^h 29'	13 ^h 55'	8 ^h 22'	1 ^h 58'	7 ^h 24'	7 ^h 1'	7 ^h 3'	19 ^h 19'
T 7	11 0 15	16 ^h 42'47"	16 ^h 51'	28 ^h 0'	1 ^h 4'	14 ^h 31'	8 ^h 28'	2 ^h 0'	7 ^h 25'	7 ^h 1'	7 ^h 3'	19 ^h 20'
F 8	11 4 11	17 ^h 42'54"	17 ^h 51'	1 ^h 17'	2 ^h 40'	15 ^h 6'	8 ^h 33'	2 ^h 2'	7 ^h 26'	7 ^h 1'	7 ^h 3'	19 ^h 21'
S 9	11 8 8	18 ^h 43'00"	18 ^h 49'	4 ^h 30'	4 ^h 15'	15 ^h 42'	8 ^h 39'	2 ^h 4'	7 ^h 26'	7 ^h 2'	7 ^h 3'	19 ^h 21'
S 10	11 12 4	19 ^h 43'04"	19 ^h 48'	7 ^h 39'	5 ^h 51'	16 ^h 17'	8 ^h 44'	2 ^h 6'	7 ^h 27'	7 ^h 2'	7 ^h 3'	19 ^h 22'
M 11	11 16 1	20 ^h 43'06"	20 ^h 46'	10 ^h 45'	7 ^h 26'	16 ^h 53'	8 ^h 50'	2 ^h 7'	7 ^h 28'	7 ^h 3'	7 ^h 4'	19 ^h 23'
T 12	11 19 58	21 ^h 43'07"	21 ^h 44'	13 ^h 47'	9 ^h 2'	17 ^h 29'	8 ^h 55'	2 ^h 9'	7 ^h 28'	7 ^h 3'	7 ^h 4'	19 ^h 23'
W 13	11 23 54	22 ^h 43'05"	22 ^h 42'	16 ^h 47'	10 ^h 37'	18 ^h 4'	9 ^h 1'	2 ^h 11'	7 ^h 29'	7 ^h 3'	7 ^h 4'	19 ^h 24'
T 14	11 27 51	23 ^h 43'02"	23 ^h 40'	19 ^h 44'	12 ^h 13'	18 ^h 40'	9 ^h 6'	2 ^h 13'	7 ^h 30'	7 ^h 4'	7 ^h 4'	19 ^h 25'
F 15	11 31 47	24 ^h 42'56"	24 ^h 38'	22 ^h 39'	13 ^h 48'	19 ^h 16'	9 ^h 12'	2 ^h 15'	7 ^h 30'	7 ^h 4'	7 ^h 4'	19 ^h 25'
S 16	11 35 44	25 ^h 42'49"	25 ^h 37'	25 ^h 31'	15 ^h 24'	19 ^h 52'	9 ^h 17'	2 ^h 16'	7 ^h 31'	7 ^h 4'	7 ^h 4'	19 ^h 26'
S 17	11 39 40	26 ^h 42'39"	26 ^h 35'	28 ^h 22'	17 ^h 0'	20 ^h 27'	9 ^h 23'	2 ^h 18'	7 ^h 32'	7 ^h 5'	7 ^h 5'	19 ^h 27'
M 18	11 43 37	27 ^h 42'27"	27 ^h 34'	1 ^h 12'	18 ^h 35'	21 ^h 3'	9 ^h 28'	2 ^h 20'	7 ^h 32'	7 ^h 5'	7 ^h 5'	19 ^h 27'
T 19	11 47 33	28 ^h 42'13"	28 ^h 33'	4 ^h 0'	20 ^h 11'	21 ^h 39'	9 ^h 34'	2 ^h 22'	7 ^h 33'	7 ^h 5'	7 ^h 5'	19 ^h 28'
W 20	11 51 30	29 ^h 41'57"	29 ^h 33'	6 ^h 47'	21 ^h 47'	22 ^h 15'	9 ^h 39'	2 ^h 24'	7 ^h 34'	7 ^h 6'	7 ^h 5'	19 ^h 29'
T 21	11 55 27	0 ^h 41'39"	0 ^h 33'	9 ^h 33'	23 ^h 22'	22 ^h 52'	9 ^h 45'	2 ^h 25'	7 ^h 34'	7 ^h 6'	7 ^h 5'	19 ^h 29'
F 22	11 59 23	1 ^h 41'18"	1 ^h 33'	12 ^h 18'	24 ^h 58'	23 ^h 28'	9 ^h 50'	2 ^h 27'	7 ^h 35'	7 ^h 6'	7 ^h 6'	19 ^h 30'
S 23	12 3 20	2 ^h 40'55"	2 ^h 34'	15 ^h 3'	26 ^h 34'	24 ^h 4'	9 ^h 56'	2 ^h 29'	7 ^h 36'	7 ^h 7'	7 ^h 6'	19 ^h 31'
S 24	12 7 16	3 ^h 40'30"	3 ^h 34'	17 ^h 48'	28 ^h 10'	24 ^h 40'	10 ^h 1'	2 ^h 31'	7 ^h 36'	7 ^h 7'	7 ^h 6'	19 ^h 31'
M 25	12 11 13	4 ^h 40'02"	4 ^h 35'	20 ^h 33'	29 ^h 46'	25 ^h 16'	10 ^h 7'	2 ^h 33'	7 ^h 37'	7 ^h 8'	7 ^h 6'	19 ^h 32'
T 26	12 15 9	5 ^h 39'33"	5 ^h 36'	23 ^h 17'	1 ^h 21'	25 ^h 53'	10 ^h 12'	2 ^h 34'	7 ^h 38'	7 ^h 8'	7 ^h 6'	19 ^h 32'
W 27	12 19 6	6 ^h 39'01"	6 ^h 38'	26 ^h 3'	2 ^h 57'	26 ^h 29'	10 ^h 18'	2 ^h 36'	7 ^h 38'	7 ^h 8'	7 ^h 6'	19 ^h 33'
T 28	12 23 2	7 ^h 38'27"	7 ^h 39'	28 ^h 48'	4 ^h 33'	27 ^h 6'	10 ^h 23'	2 ^h 38'	7 ^h 39'	7 ^h 9'	7 ^h 7'	19 ^h 34'
F 29	12 26 59	8 ^h 37'51"	8 ^h 40'	1 ^h 35'	6 ^h 9'	27 ^h 42'	10 ^h 29'	2 ^h 40'	7 ^h 40'	7 ^h 9'	7 ^h 7'	19 ^h 34'
S 30	12 30 55	9 ^h 37'14"	9 ^h 41'	4 ^h 22'	7 ^h 45'	28 ^h 19'	10 ^h 34'	2 ^h 42'	7 ^h 40'	7 ^h 9'	7 ^h 7'	19 ^h 35'
S 31	12 34 52	10 ^h 36'34"	10 ^h 42'	7 ^h 31'	9 ^h 21'	28 ^h 55'	10 ^h 40'	2 ^h 43'	7 ^h 41'	7 ^h 10'	7 ^h 7'	19 ^h 36'

Delta T = 05m49s

APRIL 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
M 1	12 38 49	11 ^h 35'53"	11 ^h 43'	10 ^h 31'	10 ^h 57'	29 ^h 32'	10 ^h 45'	2 ^h 45'	7 ^h 42'	7 ^h 10'	7 ^h 7'	19 ^h 36'
T 2	12 42 45	12 ^h 35'09"	12 ^h 43'	12 ^h 53'	12 ^h 33'	0 ^h 8'	10 ^h 51'	2 ^h 47'	7 ^h 42'	7 ^h 10'	7 ^h 8'	19 ^h 37'
W 3	12 46 42	13 ^h 34'24"	13 ^h 43'	15 ^h 46'	14 ^h 9'	0 ^h 45'	10 ^h 56'	2 ^h 49'	7 ^h 43'	7 ^h 11'	7 ^h 8'	19 ^h 38'
T 4	12 50 38	14 ^h 33'38"	14 ^h 42'	18 ^h 42'	15 ^h 45'	1 ^h 22'	11 ^h 2'	2 ^h 51'	7 ^h 44'	7 ^h 11'	7 ^h 8'	19 ^h 38'
F 5	12 54 35	15 ^h 32'49"	15 ^h 41'	21 ^h 40'	17 ^h 21'	1 ^h 59'	11 ^h 7'	2 ^h 53'	7 ^h 44'	7 ^h 11'	7 ^h 8'	19 ^h 39'
S 6	12 58 31	16 ^h 31'59"	16 ^h 40'	24 ^h 40'	18 ^h 58'	2 ^h 35'	11 ^h 13'	2 ^h 54'	7 ^h 45'	7 ^h 12'	7 ^h 8'	19 ^h 40'
S 7	13 2 28	17 ^h 31'07"	17 ^h 38'	27 ^h 43'	20 ^h 34'	3 ^h 12'	11 ^h 18'	2 ^h 56'	7 ^h 46'	7 ^h 12'	7 ^h 8'	19 ^h 40'
M 8	13 6 24	18 ^h 30'13"	18 ^h 36'	0 ^h 50'	22 ^h 10'	3 ^h 49'	11 ^h 24'	2 ^h 58'	7 ^h 46'	7 ^h 13'	7 ^h 9'	19 ^h 41'
T 9	13 10 21	19 ^h 29'18"	19 ^h 33'	4 ^h 0'	23 ^h 46'	4 ^h 26'	11 ^h 29'	3 ^h 0'	7 ^h 47'	7 ^h 13'	7 ^h 9'	19 ^h 42'
W 10	13 14 18	20 ^h 28'20"	20 ^h 30'	7 ^h 13'	25 ^h 22'	5 ^h 3'	11 ^h 35'	3 ^h 2'	7 ^h 48'	7 ^h 13'	7 ^h 9'	19 ^h 42'
T 11	13 18 14	21 ^h 27'21"	21 ^h 27'	10 ^h 30'	26 ^h 59'	5 ^h 40'	11 ^h 40'	3 ^h 3'	7 ^h 48'	7 ^h 14'	7 ^h 9'	19 ^h 43'
F 12	13 22 11	22 ^h 26'19"	22 ^h 24'	13 ^h 52'	28 ^h 35'	6 ^h 17'	11 ^h 46'	3 ^h 5'	7 ^h 49'	7 ^h 14'	7 ^h 9'	19 ^h 43'
S 13	13 26 7	23 ^h 25'16"	23 ^h 21'	17 ^h 18'	0 ^h 11'	6 ^h 54'	11 ^h 51'	3 ^h 7'	7 ^h 50'	7 ^h 14'	7 ^h 10'	19 ^h 44'
S 14	13 30 4	24 ^h 24'10"	24 ^h 19'	20 ^h 49'	1 ^h 48'	7 ^h 31'	11 ^h 57'	3 ^h 9'	7 ^h 50'	7 ^h 15'	7 ^h 10'	19 ^h 45'
M 15	13 34 0	25 ^h 23'03"	25 ^h 16'	24 ^h 25'	3 ^h 24'	8 ^h 9'	12 ^h 2'	3 ^h 11'	7 ^h 51'	7 ^h 15'	7 ^h 10'	19 ^h 45'
T 16	13 37 57	26 ^h 21'53"	26 ^h 14'	28 ^h 7'	5 ^h 1'	8 ^h 46'	12 ^h 8'	3 ^h 12'	7 ^h 52'	7 ^h 15'	7 ^h 10'	19 ^h 46'
W 17	13 41 53	27 ^h 20'41"	27 ^h 12'	1 ^h 55'	6 ^h 37'	9 ^h 23'	12 ^h 13'	3 ^h 14'	7 ^h 52'	7 ^h 16'	7 ^h 10'	19 ^h 47'
T 18	13 45 50	28 ^h 19'26"	28 ^h 10'	5 ^h 49'	8 ^h 14'	10 ^h 0'	12 ^h 19'	3 ^h 16'	7 ^h 53'	7 ^h 16'	7 ^h 10'	19 ^h 47'
F 19	13 49 47	29 ^h 18'10"	29 ^h 9'	9 ^h 50'	9 ^h 50'	10 ^h 38'	12 ^h 24'	3 ^h 18'	7 ^h 54'	7 ^h 17'	7 ^h 11'	19 ^h 48'
S 20	13 53 43	0 ^h 16'51"	0 ^h 18'	13 ^h 59'	11 ^h 27'	11 ^h 15'	12 ^h 30'	3 ^h 20'	7 ^h 54'	7 ^h 17'	7 ^h 11'	19 ^h 49'
S 21	13 57 40	1 ^h 15'30"	1 ^h 7'	18 ^h 14'	13 ^h 3'	11 ^h 52'	12 ^h 35'	3 ^h 21'	7 ^h 55'	7 ^h 17'	7 ^h 11'	19 ^h 49'
M 22	14 1 36	2 ^h 14'06"	2 ^h 7'	22 ^h 37'	14 ^h 40'	12 ^h 30'	12 ^h 41'	3 ^h 23'	7 ^h 56'	7 ^h 18'	7 ^h 11'	19 ^h 50'
T 23	14 5 33	3 ^h 12'41"	3 ^h 7'	27 ^h 9'	16 ^h 16'	13 ^h 7'	12 ^h 46'	3 ^h 25'	7 ^h 56'	7 ^h 18'	7 ^h 11'	19 ^h 51'
W 24	14 9 29	4 ^h 11'13"	4 ^h 7'	1 ^h 49'	17 ^h 53'	13 ^h 45'	12 ^h 52'	3 ^h 27'	7 ^h 57'	7 ^h 18'	7 ^h 11'	19 ^h 51'
T 25	14 13 26	5 ^h 9'44"	5 ^h 7'	6 ^h 38'	19 ^h 30'	14 ^h 22'	12 ^h 57'	3 ^h 29'	7 ^h 58'	7 ^h 19'	7 ^h 12'	19 ^h 52'
F 26	14 17 22	6 ^h 8'12"	6 ^h 7'	11 ^h 35'	21 ^h 7'	15 ^h 0'	13 ^h 2'	3 ^h 30'	7 ^h 58'	7 ^h 19'	7 ^h 12'	19 ^h 52'
S 27	14 21 19	7 ^h 6'39"	7 ^h 8'	16 ^h 42'	22 ^h 43'	15 ^h 37'	13 ^h 8'	3 ^h 32'	7 ^h 59'	7 ^h 19'	7 ^h 12'	19 ^h 53'
S 28	14 25 15	8 ^h 5'04"	8 ^h 8'	21 ^h 58'	24 ^h 20'	16 ^h 15'	13 ^h 13'	3 ^h 34'	8 ^h 0'	7 ^h 20'	7 ^h 12'	19 ^h 54'
M 29	14 29 12	9 ^h 3'27"	9 ^h 8'	27 ^h 23'	25 ^h							

SWISS EPHEMERIS for the year 2165
heliocentric

MAY 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
W 1	14 37 5	11♍ 0'09	11♍ 7	8♃39	29♄11	18♁8	13♃30	3♁39	8♁2	7♁21	7♁13	19♁56
T 2	14 41 2	11°58'27	12° 6	14°30	0♁48	18°46	13°35	3°41	8° 2	7°21	7°13	19°56
F 3	14 44 58	12°56'44	13° 5	20°28	2°25	19°23	13°41	3°43	8° 3	7°22	7°13	19°57
S 4	14 48 55	13°54'59	14° 3	26°32	4° 1	20° 1	13°46	3°45	8° 4	7°22	7°13	19°58
S 5	14 52 51	14°53'13	15° 1	2♄42	5°38	20°39	13°52	3°47	8° 4	7°22	7°13	19°58
M 6	14 56 48	15°51'25	15°59	8°57	7°16	21°17	13°57	3°48	8° 5	7°23	7°14	19°59
T 7	15 0 44	16°49'36	16°56	15°14	8°53	21°54	14° 3	3°50	8° 6	7°23	7°14	20° 0
W 8	15 4 41	17°47'46	17°52	21°34	10°30	22°32	14° 8	3°52	8° 6	7°23	7°14	20° 0
T 9	15 8 38	18°45'54	18°49	27°53	12° 7	23°10	14°14	3°54	8° 7	7°24	7°14	20° 1
F 10	15 12 34	19°44'00	19°45	4♁11	13°44	23°48	14°19	3°56	8° 8	7°24	7°14	20° 2
S 11	15 16 31	20°42'05	20°41	10°26	15°21	24°26	14°25	3°57	8° 8	7°24	7°15	20° 2
S 12	15 20 27	21°40'08	21°37	16°36	16°58	25° 4	14°30	3°59	8° 9	7°25	7°15	20° 3
M13	15 24 24	22°38'10	22°33	22°42	18°35	25°42	14°36	4° 1	8°10	7°25	7°15	20° 3
T 14	15 28 20	23°36'10	23°30	28°40	20°13	26°20	14°41	4° 3	8°10	7°26	7°15	20° 4
W15	15 32 17	24°34'08	24°27	4♁31	21°50	26°58	14°47	4° 5	8°11	7°26	7°15	20° 5
T 16	15 36 13	25°32'04	25°24	10°13	23°27	27°36	14°52	4° 7	8°12	7°26	7°15	20° 5
F 17	15 40 10	26°29'59	26°21	15°46	25° 5	28°14	14°58	4° 8	8°12	7°27	7°16	20° 6
S 18	15 44 7	27°27'51	27°19	21°10	26°42	28°52	15° 3	4°10	8°13	7°27	7°16	20° 7
S 19	15 48 3	28°25'42	28°17	26°24	28°19	29°30	15° 9	4°12	8°13	7°27	7°16	20° 7
M20	15 52 0	29°23'32	29°15	1♁28	29°57	0♁8	15°14	4°14	8°14	7°28	7°16	20° 8
T 21	15 55 56	0♁21'19	0♁14	6°23	1♁34	0°46	15°20	4°16	8°15	7°28	7°16	20° 9
W22	15 59 53	1°19'05	1°12	11° 9	3°11	1°24	15°25	4°17	8°15	7°28	7°17	20° 9
T 23	16 3 49	2°16'50	2°12	15°45	4°49	2° 2	15°31	4°19	8°16	7°29	7°17	20°10
F 24	16 7 46	3°14'32	3°11	20°12	6°26	2°40	15°36	4°21	8°17	7°29	7°17	20°11
S 25	16 11 42	4°12'14	4°10	24°31	8° 4	3°18	15°42	4°23	8°17	7°29	7°17	20°11
S 26	16 15 39	5° 9'54	5°10	28°42	9°41	3°56	15°47	4°25	8°18	7°30	7°17	20°12
M27	16 19 36	6° 7'33	6°10	2♁45	11°19	4°34	15°53	4°26	8°19	7°30	7°17	20°13
T 28	16 23 32	7° 5'11	7° 9	6°40	12°56	5°12	15°58	4°28	8°19	7°31	7°18	20°13
W29	16 27 29	8° 2'47	8° 8	10°29	14°34	5°50	16° 4	4°30	8°20	7°31	7°18	20°14
T 30	16 31 25	9° 0'23	9° 7	14°12	16°11	6°28	16° 9	4°32	8°21	7°31	7°18	20°14
F 31	16 35 22	9♁57'58	10♁6	17♁49	17♁49	7♁7	16♁15	4♁34	8♁21	7♁32	7♁18	20♁15

Delta T = 05m49s

JUNE 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
S 1	16 39 18	10♁55'32	11♁4	21♁20	19♁26	7♁45	16♁20	4♁35	8♁22	7♁32	7♁18	20♁16
S 2	16 43 15	11°53'05	12° 1	24°46	21° 4	8°23	16°26	4°37	8°23	7°32	7°19	20°16
M 3	16 47 11	12°50'37	12°59	28° 7	22°41	9° 1	16°31	4°39	8°23	7°33	7°19	20°17
T 4	16 51 8	13°48'08	13°56	1♍23	24°19	9°39	16°37	4°41	8°24	7°33	7°19	20°18
W 5	16 55 5	14°45'39	14°52	4°36	25°56	10°17	16°42	4°43	8°25	7°33	7°19	20°18
T 6	16 59 1	15°43'09	15°48	7°45	27°34	10°55	16°48	4°44	8°25	7°34	7°19	20°19
F 7	17 2 58	16°40'38	16°44	10°50	29°11	11°33	16°53	4°46	8°26	7°34	7°19	20°20
S 8	17 6 54	17°38'06	17°40	13°53	0♁49	12°11	16°59	4°48	8°27	7°35	7°20	20°20
S 9	17 10 51	18°35'34	18°35	16°52	2°26	12°50	17° 4	4°50	8°27	7°35	7°20	20°21
M10	17 14 47	19°33'00	19°31	19°49	4° 4	13°28	17°10	4°52	8°28	7°35	7°20	20°22
T 11	17 18 44	20°30'26	20°27	22°44	5°41	14° 6	17°15	4°53	8°29	7°36	7°20	20°22
W12	17 22 40	21°27'51	21°22	25°37	7°19	14°44	17°21	4°55	8°29	7°36	7°20	20°23
T 13	17 26 37	22°25'15	22°18	28°28	8°56	15°22	17°26	4°57	8°30	7°36	7°21	20°23
F 14	17 30 34	23°22'37	23°15	1♁17	10°34	16° 0	17°32	4°59	8°31	7°37	7°21	20°24
S 15	17 34 30	24°19'59	24°11	4° 5	12°11	16°38	17°37	5° 1	8°31	7°37	7°21	20°25
S 16	17 38 27	25°17'20	25° 8	6°52	13°49	17°16	17°43	5° 2	8°32	7°37	7°21	20°25
M17	17 42 23	26°14'40	26° 6	9°38	15°26	17°54	17°48	5° 4	8°33	7°38	7°21	20°26
T 18	17 46 20	27°11'59	27° 3	12°24	17° 4	18°32	17°54	5° 6	8°33	7°38	7°21	20°27
W19	17 50 16	28° 9'17	28° 1	15° 8	18°41	19°10	17°59	5° 8	8°34	7°38	7°22	20°27
T 20	17 54 13	29° 6'34	28°59	17°53	20°18	19°48	18° 5	5°10	8°35	7°39	7°22	20°28
F 21	17 58 9	0♁3'50	29°58	20°38	21°56	20°26	18°10	5°11	8°35	7°39	7°22	20°29
S 22	18 2 6	1° 1'06	0♁57	23°23	23°33	21° 4	18°16	5°13	8°36	7°40	7°22	20°29
S 23	18 6 3	1°58'21	1°56	26° 8	25°10	21°42	18°21	5°15	8°37	7°40	7°22	20°30
M24	18 9 59	2°55'36	2°55	28°54	26°48	22°20	18°27	5°17	8°37	7°40	7°23	20°31
T 25	18 13 56	3°52'50	3°54	1♁40	28°25	22°58	18°32	5°19	8°38	7°41	7°23	20°31
W26	18 17 52	4°50'04	4°53	4°28	0♁2	23°36	18°38	5°21	8°39	7°41	7°23	20°32
T 27	18 21 49	5°47'17	5°52	7°16	1°39	24°14	18°43	5°22	8°39	7°41	7°23	20°33
F 28	18 25 45	6°44'31	6°51	10° 6	3°16	24°52	18°49	5°24	8°40	7°42	7°23	20°33
S 29	18 29 42	7°41'44	7°49	12°58	4°53	25°30	18°54	5°26	8°41	7°42	7°23	20°34
S 30	18 33 39	8♁38'57	8♁47	15♁52	6♁31	26♁7	19♁0	5♁28	8♁41	7♁42	7♁24	20♁34

Delta T = 05m49s

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SWISS EPHEMERIS for the year 2165
heliocentric

JULY 2165

00:00 UT

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

Delta T = 05m50s

AUGUST 2165

00:00 UT

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

Delta T = 05m50s

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SWISS EPHEMERIS for the year 2165
heliocentric

SEPTEMBER 2165

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	22 42 1	8°58'07	9°5	4♐42	17♁7	4♂42	24♄46	7♅21	9♆23	8♇5	7♈35	21♉15			
M 2	22 45 58	9°56'08	10° 2	7°51	18°42	5°17	24°51	7°23	9°24	8° 6	7°35	21°15			
T 3	22 49 55	10°54'10	10°59	10°56	20°17	5°52	24°57	7°25	9°24	8° 6	7°35	21°16			
W 4	22 53 51	11°52'15	11°55	13°59	21°51	6°27	25° 2	7°27	9°25	8° 6	7°36	21°17			
T 5	22 57 48	12°50'21	12°51	16°58	23°26	7° 3	25° 8	7°29	9°26	8° 7	7°36	21°17			
F 6	23 1 44	13°48'29	13°48	19°55	25° 1	7°38	25°13	7°30	9°26	8° 7	7°36	21°18			
S 7	23 5 41	14°46'39	14°44	22°50	26°36	8°13	25°19	7°32	9°27	8° 7	7°36	21°19			
S 8	23 9 37	15°44'50	15°41	25°42	28°11	8°48	25°24	7°34	9°28	8° 8	7°36	21°19			
M 9	23 13 34	16°43'03	16°38	28°33	29°46	9°22	25°30	7°36	9°28	8° 8	7°36	21°20			
T 10	23 17 30	17°41'17	17°35	1♁22	1♁21	9°57	25°35	7°38	9°29	8° 8	7°37	21°21			
W11	23 21 27	18°39'33	18°32	4°10	2°56	10°32	25°41	7°39	9°30	8° 9	7°37	21°21			
T 12	23 25 24	19°37'50	19°29	6°57	4°30	11° 7	25°46	7°41	9°30	8° 9	7°37	21°22			
F 13	23 29 20	20°36'09	20°27	9°43	6° 5	11°42	25°52	7°43	9°31	8° 9	7°37	21°23			
S 14	23 33 17	21°34'30	21°26	12°29	7°40	12°16	25°57	7°45	9°32	8°10	7°37	21°23			
S 15	23 37 13	22°32'52	22°25	15°14	9°15	12°51	26° 3	7°47	9°32	8°10	7°38	21°24			
M16	23 41 10	23°31'16	23°24	17°58	10°50	13°25	26° 8	7°49	9°33	8°11	7°38	21°24			
T 17	23 45 6	24°29'41	24°24	20°43	12°25	14° 0	26°14	7°50	9°34	8°11	7°38	21°25			
W18	23 49 3	25°28'08	25°24	23°28	14° 0	14°34	26°19	7°52	9°34	8°11	7°38	21°26			
T 19	23 52 59	26°26'36	26°24	26°13	15°35	15° 8	26°25	7°54	9°35	8°12	7°38	21°26			
F 20	23 56 56	27°25'07	27°24	28°59	17°10	15°43	26°30	7°56	9°36	8°12	7°38	21°27			
S 21	0 0 52	28°23'39	28°25	1♁45	18°45	16°17	26°36	7°58	9°36	8°12	7°39	21°28			
S 22	0 4 49	29°22'13	29°26	4°33	20°19	16°51	26°41	7°59	9°37	8°13	7°39	21°28			
M23	0 8 46	0♐20'49	0♐26	7°22	21°54	17°25	26°47	8° 1	9°38	8°13	7°39	21°29			
T 24	0 12 42	1°19'27	1°26	10°12	23°29	17°59	26°52	8° 3	9°38	8°13	7°39	21°30			
W25	0 16 39	2°18'08	2°26	13° 4	25° 4	18°33	26°57	8° 5	9°39	8°14	7°39	21°30			
T 26	0 20 35	3°16'50	3°25	15°57	26°39	19° 7	27° 3	8° 7	9°40	8°14	7°40	21°31			
F 27	0 24 32	4°15'35	4°24	18°53	28°14	19°41	27° 8	8° 8	9°40	8°15	7°40	21°31			
S 28	0 28 28	5°14'23	5°23	21°51	29°49	20°15	27°14	8°10	9°41	8°15	7°40	21°32			
S 29	0 32 25	6°13'12	6°22	24°52	1♁24	20°49	27°19	8°12	9°42	8°15	7°40	21°33			
M30	0 36 21	7°12'04	7°20	27♁55	2♁59	21♁22	27♁25	8♁14	9♁42	8♁16	7♁40	21♁33			

Delta T = 05m50s

OCTOBER 2165

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
T 1	0 40 18	8°10'58	8°18	1♁2	4♂35	21♁56	27♁30	8♁16	9♁43	8♁16	7♁40	21♁34			
W 2	0 44 15	9° 9'54	9°15	4°12	6°10	22°30	27°36	8°17	9°44	8°16	7°41	21°35			
T 3	0 48 11	10° 8'52	10°13	7°25	7°45	23° 3	27°41	8°19	9°44	8°17	7°41	21°35			
F 4	0 52 8	11° 7'52	11°10	10°43	9°20	23°37	27°47	8°21	9°45	8°17	7°41	21°36			
S 5	0 56 4	12° 6'55	12° 7	14° 5	10°55	24°10	27°52	8°23	9°45	8°17	7°41	21°37			
S 6	1 0 1	13° 5'59	13° 5	17°31	12°30	24°44	27°58	8°25	9°46	8°18	7°41	21°37			
M 7	1 3 57	14° 5'06	14° 2	21° 3	14° 5	25°17	28° 3	8°26	9°47	8°18	7°41	21°38			
T 8	1 7 54	15° 4'14	15° 0	24°39	15°41	25°50	28° 9	8°28	9°47	8°18	7°42	21°38			
W 9	1 11 50	16° 3'24	15°57	28°22	17°16	26°23	28°14	8°30	9°48	8°19	7°42	21°39			
T 10	1 15 47	17° 2'37	16°55	2♁10	18°51	26°56	28°20	8°32	9°49	8°19	7°42	21°40			
F 11	1 19 44	18° 1'51	17°54	6° 5	20°26	27°30	28°25	8°34	9°49	8°20	7°42	21°40			
S 12	1 23 40	19° 1'06	18°53	10° 6	22° 2	28° 3	28°31	8°35	9°50	8°20	7°42	21°41			
S 13	1 27 37	20° 0'24	19°52	14°14	23°37	28°36	28°36	8°37	9°51	8°20	7°43	21°42			
M14	1 31 33	20°59'43	20°51	18°30	25°12	29° 8	28°42	8°39	9°51	8°21	7°43	21°42			
T 15	1 35 30	21°59'04	21°51	22°54	26°47	29°41	28°47	8°41	9°52	8°21	7°43	21°43			
W16	1 39 26	22°58'27	22°52	27°26	28°23	0♐14	28°53	8°43	9°53	8°21	7°43	21°44			
T 17	1 43 23	23°57'52	23°53	2♁7	29°58	0°47	28°58	8°44	9°53	8°22	7°43	21°44			
F 18	1 47 19	24°57'18	24°54	6°56	1♁34	1°20	29° 4	8°46	9°54	8°22	7°43	21°45			
S 19	1 51 16	25°56'46	25°55	11°54	3° 9	1°52	29° 9	8°48	9°55	8°22	7°44	21°45			
S 20	1 55 12	26°56'16	26°57	17° 2	4°45	2°25	29°15	8°50	9°55	8°23	7°44	21°46			
M21	1 59 9	27°55'48	27°58	22°18	6°20	2°57	29°20	8°52	9°56	8°23	7°44	21°47			
T 22	2 3 6	28°55'22	29° 0	27°44	7°55	3°30	29°26	8°53	9°57	8°23	7°44	21°47			
W23	2 7 2	29°54'59	0♁1	3♁18	9°31	4° 2	29°31	8°55	9°57	8°24	7°44	21°48			
T 24	2 10 59	0♁54'38	1° 2	9° 1	11° 7	4°34	29°37	8°57	9°58	8°24	7°45	21°49			
F 25	2 14 55	1°54'19	2° 3	14°52	12°42	5° 7	29°42	8°59	9°59	8°25	7°45	21°49			
S 26	2 18 52	2°54'02	3° 3	20°51	14°18	5°39	29°48	9° 1	9°59	8°25	7°45	21°50			
S 27	2 22 48	3°53'47	4° 3	26°55	15°53	6°11	29°53	9° 2	10° 0	8°25	7°45	21°51			
M28	2 26 45	4°53'35	5° 3	3♐6	17°29	6°43	29°59	9° 4	10° 1	8°26	7°45	21°51			
T 29	2 30 41	5°53'25	6° 2	9°21	19° 5	7°15	0♁4	9° 6	10° 1	8°26	7°45	21°52			
W30	2 34 38	6°53'17	7° 1	15°38	20°40	7°47	0° 9	9° 8	10° 2	8°26	7°46	21°52			
T 31	2 38 35	7♁53'11	8♁0	21♐57	22♁16	8♐19	0♁15	9♁10	10♁3	8♁27	7♁46	21♁53			

Delta T = 05m50s

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SWISS EPHEMERIS for the year 2165
heliocentric

NOVEMBER 2165

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
F 1	2 42 31	8♃53'07	8♃58	28♂17	23♃52	8♂51	0♃20	9♃12	10♁3	8♁27	7♁46	21♂54
S 2	2 46 28	9°53'05	9°57	4♁34	25°27	9°23	0°26	9°13	10°4	8°27	7°46	21°54
S 3	2 50 24	10°53'05	10°55	10°49	27°3	9°55	0°31	9°15	10°5	8°28	7°46	21°55
M 4	2 54 21	11°53'08	11°53	17°0	28°39	10°27	0°37	9°17	10°5	8°28	7°47	21°56
T 5	2 58 17	12°53'12	12°51	23°4	0♂15	10°58	0°42	9°19	10°6	8°29	7°47	21°56
W 6	3 2 14	13°53'18	13°50	29°2	1°51	11°30	0°48	9°21	10°7	8°29	7°47	21°57
T 7	3 6 10	14°53'25	14°48	4♂52	3°27	12°2	0°53	9°22	10°7	8°29	7°47	21°58
F 8	3 10 7	15°53'35	15°47	10°34	5°3	12°33	0°59	9°24	10°8	8°30	7°47	21°58
S 9	3 14 4	16°53'46	16°46	16°7	6°39	13°5	1°4	9°26	10°9	8°30	7°47	21°59
S 10	3 18 0	17°53'58	17°46	21°30	8°14	13°36	1°10	9°28	10°9	8°30	7°48	21°59
M 11	3 21 57	18°54'12	18°46	26°43	9°50	14°7	1°15	9°30	10°10	8°31	7°48	22°0
T 12	3 25 53	19°54'27	19°46	1♂47	11°26	14°39	1°21	9°31	10°11	8°31	7°48	22°1
W 13	3 29 50	20°54'44	20°47	6°41	13°3	15°10	1°26	9°33	10°11	8°31	7°48	22°1
T 14	3 33 46	21°55'02	21°48	11°26	14°39	15°41	1°32	9°35	10°12	8°32	7°48	22°2
F 15	3 37 43	22°55'21	22°50	16°2	16°15	16°12	1°37	9°37	10°13	8°32	7°49	22°3
S 16	3 41 39	23°55'42	23°52	20°29	17°51	16°43	1°43	9°39	10°13	8°32	7°49	22°3
S 17	3 45 36	24°56'05	24°54	24°47	19°27	17°14	1°48	9°40	10°14	8°33	7°49	22°4
M 18	3 49 33	25°56'29	25°56	28°57	21°3	17°45	1°54	9°42	10°15	8°33	7°49	22°5
T 19	3 53 29	26°56'54	26°59	3♁0	22°39	18°16	1°59	9°44	10°15	8°34	7°49	22°5
W 20	3 57 26	27°57'22	28°1	6°55	24°16	18°47	2°5	9°46	10°16	8°34	7°49	22°6
T 21	4 1 22	28°57'51	29°3	10°44	25°52	19°18	2°10	9°48	10°17	8°34	7°50	22°6
F 22	4 5 19	29°58'21	0♂5	14°26	27°28	19°49	2°16	9°49	10°17	8°35	7°50	22°7
S 23	4 9 15	0♂58'54	1°7	18°2	29°4	20°19	2°21	9°51	10°18	8°35	7°50	22°8
S 24	4 13 12	1°59'28	2°8	21°33	0♂41	20°50	2°27	9°53	10°19	8°35	7°50	22°8
M 25	4 17 8	3°0'04	3°9	24°58	2°17	21°21	2°32	9°55	10°19	8°36	7°50	22°9
T 26	4 21 5	4°0'41	4°10	28°19	3°54	21°51	2°37	9°57	10°20	8°36	7°51	22°10
W 27	4 25 2	5°1'20	5°10	1♂36	5°30	22°22	2°43	9°58	10°21	8°36	7°51	22°10
T 28	4 28 58	6°2'01	6°11	4°48	7°7	22°52	2°48	10°0	10°21	8°37	7°51	22°11
F 29	4 32 55	7°2'43	7°10	7°57	8°43	23°23	2°54	10°2	10°22	8°37	7°51	22°12
S 30	4 36 51	8♂3'27	8♂10	11♂2	10♂20	23♂53	2♂59	10♂3	10♂22	8♂38	7♂51	22♂12

Delta T = 05m50s

DECEMBER 2165

00:00 UT

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

Delta T = 05m50s

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