

SWISS EPHEMERIS for the year 1990 BCE

JANUARY 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
W 1	5 31 39	24 ⁵⁵ 05	0 ³²	3 ³	11 ²⁴	4 ⁷	28 ²⁴	28 ¹⁵	24 ^{R 9}	25 ⁵⁶	20 ^{R 0}	1 ^{R 6}	0 ¹⁰	26 ¹⁷	n.a.
T 2	5 35 35	25 ⁵⁵ 39	12 ³⁵	3 ¹⁰	12 ⁸	4 ⁴⁵	28 ³⁷	28 ²⁰	24 ^{II 6}	25 ⁵⁶	19 ⁵⁸	1 ⁴	0 ⁷	26 ²⁴	n.a.
F 3	5 39 32	26 ⁵⁶ 10	24 ⁵¹	3 ²⁴	12 ⁵³	5 ²³	28 ⁵⁰	28 ²⁵	24 ³	25 ⁵⁷	19 ⁵⁷	1 ^{D 4}	0 ³	26 ³¹	n.a.
S 4	5 43 29	27 ⁵⁶ 39	7 ²⁴	3 ⁴³	13 ⁴⁰	6 ¹	29 ³	28 ²⁹	24 ¹	25 ⁵⁷	19 ⁵⁵	1 ⁴	0 ⁰	26 ³⁸	n.a.
S 5	5 47 25	28 ⁵⁷ 07	20 ¹⁸	4 ⁸	14 ²⁷	6 ³⁹	29 ¹⁷	28 ³⁴	23 ⁵⁸	25 ⁵⁷	19 ⁵⁴	1 ⁵	29 ⁵⁷	26 ⁴⁴	n.a.
M 6	5 51 22	29 ⁵⁷ 32	3 ³⁷	4 ³⁹	15 ¹⁵	7 ¹⁶	29 ³⁰	28 ³⁸	23 ⁵⁶	25 ⁵⁸	19 ⁵²	1 ⁷	29 ⁵⁴	26 ⁵¹	n.a.
T 7	5 55 18	0 ⁵⁷ 55	17 ²³	5 ¹⁴	16 ⁴	7 ⁵⁴	29 ⁴³	28 ⁴³	23 ⁵³	25 ⁵⁸	19 ⁵¹	1 ⁸	29 ⁵¹	26 ⁵⁸	n.a.
W 8	5 59 15	1 ⁵⁸ 16	1 ³⁷	5 ⁵³	16 ⁵⁴	8 ³²	29 ⁵⁶	28 ⁴⁷	23 ⁵⁰	25 ⁵⁸	19 ⁴⁹	1 ^{R 9}	29 ⁴⁸	27 ⁴	n.a.
T 9	6 3 11	2 ⁵⁸ 35	16 ¹⁶	6 ³⁷	17 ⁴⁴	9 ¹⁰	0 ⁹	28 ⁵²	23 ⁴⁸	25 ⁵⁸	19 ⁴⁸	1 ⁸	29 ⁴⁴	27 ¹¹	n.a.
F 10	6 7 8	3 ⁵⁸ 52	1 ¹⁵	7 ²⁴	18 ³⁵	9 ⁴⁸	0 ²¹	28 ⁵⁶	23 ⁴⁵	25 ⁵⁸	19 ⁴⁶	1 ⁶	29 ⁴¹	27 ¹⁸	n.a.
S 11	6 11 4	4 ⁵⁹ 07	16 ²⁵	8 ¹⁵	19 ²⁷	10 ²⁶	0 ³⁴	29 ⁰	23 ⁴³	25 ⁵⁹	19 ⁴⁵	1 ²	29 ³⁸	27 ²⁴	n.a.
S 12	6 15 1	5 ⁵⁹ 20	1 ³⁷	9 ⁹	20 ²⁰	11 ⁴	0 ⁴⁷	29 ⁴	23 ⁴⁰	25 ⁵⁹	19 ⁴³	0 ⁵⁷	29 ³⁵	27 ³¹	n.a.
M 13	6 18 58	6 ⁵⁹ 31	16 ⁴⁰	10 ⁶	21 ¹³	11 ⁴²	1 ⁰	29 ⁸	23 ³⁸	25 ^{R 59}	19 ⁴²	0 ⁵¹	29 ³²	27 ³⁸	n.a.
T 14	6 22 54	7 ⁵⁹ 40	1 ²⁶	11 ⁶	22 ⁷	12 ²⁰	1 ¹²	29 ¹²	23 ³⁵	25 ⁵⁹	19 ⁴⁰	0 ⁴⁶	29 ²⁹	27 ⁴⁵	n.a.
W 15	6 26 51	8 ⁵⁹ 47	15 ⁴⁹	12 ⁸	23 ¹	12 ⁵⁸	1 ²⁵	29 ¹⁶	23 ³²	25 ⁵⁹	19 ³⁹	0 ⁴³	29 ²⁵	27 ⁵¹	n.a.
T 16	6 30 47	9 ⁵⁹ 53	29 ⁴⁵	13 ¹³	23 ⁵⁶	13 ³⁶	1 ³⁸	29 ¹⁹	23 ³⁰	25 ⁵⁹	19 ³⁷	0 ⁴¹	29 ²²	27 ⁵⁸	n.a.
F 17	6 34 44	10 ⁵⁹ 57	13 ¹⁶	14 ²⁰	24 ⁵¹	14 ¹⁴	1 ⁵⁰	29 ²³	23 ²⁷	25 ⁵⁸	19 ³⁶	0 ^{D 40}	29 ¹⁹	28 ⁵	n.a.
S 18	6 38 40	11 ⁵⁹ 59	26 ²³	15 ²⁹	25 ⁴⁸	14 ⁵²	2 ²	29 ²⁷	23 ²⁵	25 ⁵⁸	19 ³⁴	0 ⁴¹	29 ¹⁶	28 ¹¹	n.a.
S 19	6 42 37	12 ⁵⁹ 59	9 ¹¹	16 ⁴⁰	26 ⁴⁴	15 ³⁰	2 ¹⁵	29 ³⁰	23 ²³	25 ⁵⁸	19 ³³	0 ⁴²	29 ¹³	28 ¹⁸	n.a.
M 20	6 46 33	13 ⁵⁹ 58	21 ³⁸	17 ⁵³	27 ⁴¹	16 ⁸	2 ²⁷	29 ³³	23 ²⁰	25 ⁵⁸	19 ³¹	0 ⁴⁴	29 ⁹	28 ²⁵	n.a.
T 21	6 50 30	14 ⁵⁹ 55	3 ⁵³	19 ⁸	28 ³⁹	16 ⁴⁶	2 ³⁹	29 ³⁷	23 ¹⁸	25 ⁵⁸	19 ³⁰	0 ^{R 44}	29 ⁶	28 ³¹	n.a.
W 22	6 54 27	15 ⁵⁹ 49	15 ⁵⁹	20 ²⁵	29 ³⁷	17 ²⁴	2 ⁵¹	29 ⁴⁰	23 ¹⁵	25 ⁵⁷	19 ²⁸	0 ⁴³	29 ³	28 ³⁸	n.a.
T 23	6 58 23	16 ⁵⁹ 42	27 ⁵⁹	21 ⁴³	0 ³⁵	18 ²	3 ³	29 ⁴³	23 ¹³	25 ⁵⁷	19 ²⁶	0 ³⁹	29 ⁰	28 ⁴⁵	n.a.
F 24	7 2 20	17 ⁵⁹ 33	9 ⁵³	23 ³	1 ³⁴	18 ⁴⁰	3 ¹⁵	29 ⁴⁶	23 ¹¹	25 ⁵⁷	19 ²⁵	0 ³³	28 ⁵⁷	28 ⁵²	n.a.
S 25	7 6 16	18 ⁵⁹ 22	21 ⁴⁵	24 ²⁴	2 ³³	19 ¹⁸	3 ²⁷	29 ⁴⁹	23 ⁸	25 ⁵⁶	19 ²³	0 ²⁵	28 ⁵⁴	28 ⁵⁸	n.a.
S 26	7 10 13	19 ⁵⁹ 08	3 ³⁶	25 ⁴⁷	3 ³³	19 ⁵⁶	3 ³⁹	29 ⁵²	23 ⁶	25 ⁵⁶	19 ²²	0 ¹⁶	28 ⁵⁰	29 ⁵	n.a.
M 27	7 14 9	20 ⁵⁸ 52	15 ²⁷	27 ¹²	4 ³³	20 ³⁴	3 ⁵¹	29 ⁵⁵	23 ⁴	25 ⁵⁶	19 ²⁰	0 ⁶	28 ⁴⁷	29 ¹²	n.a.
T 28	7 18 6	21 ⁵⁸ 34	27 ²¹	28 ³⁷	5 ³³	21 ¹²	4 ²	29 ⁵⁷	23 ²	25 ⁵⁵	19 ¹⁸	29 ⁵⁶	28 ⁴⁴	29 ¹⁸	n.a.
W 29	7 22 2	22 ⁵⁸ 13	9 ¹⁹	0 ⁵	6 ³⁴	21 ⁵⁰	4 ¹⁴	0 ¹¹	22 ⁵⁹	25 ⁵⁵	19 ¹⁷	29 ⁴⁷	28 ⁴¹	29 ²⁵	n.a.
T 30	7 25 59	23 ⁵⁷ 50	21 ²⁵	1 ³³	7 ³⁵	22 ²⁸	4 ²⁵	0 ³	22 ⁵⁷	25 ⁵⁴	19 ¹⁵	29 ⁴⁰	28 ³⁸	29 ³²	n.a.
F 31	7 29 56	24 ⁵⁷ 25	3 ⁴¹	3 ³	8 ³⁶	23 ⁶	4 ³⁷	0 ¹¹	22 ⁵⁵	25 ⁵⁴	19 ¹⁴	29 ³⁵	28 ³⁵	29 ³⁹	n.a.

Delta T = 13h22m26s Julian Calendar 1 Jan. 1990 BCE == Greg. Calendar 15 Dec. 1991 BCE
 The year -1989 astronomical counting style corresponds to year 1990 B.C.E historical counting style.

FEBRUARY 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
S 1	7 33 52	25 ⁵⁶ 57	16 ¹⁰	4 ³⁴	9 ³⁷	23 ⁴⁴	4 ⁴⁸	0 ¹¹	22 ^{R 53}	25 ^{R 53}	19 ^{R 12}	29 ^{R 33}	28 ³¹	29 ⁴⁵	n.a.
S 2	7 37 49	26 ⁵⁶ 26	28 ⁵⁹	6 ⁷	10 ³⁹	24 ²²	4 ⁵⁹	0 ¹⁰	22 ^{II 51}	25 ⁵²	19 ¹¹	29 ^{D 32}	28 ²⁸	29 ⁵²	n.a.
M 3	7 41 45	27 ⁵⁵ 53	12 ⁸	7 ⁴⁰	11 ⁴²	25 ⁰	5 ¹⁰	0 ¹²	22 ⁴⁹	25 ⁵²	19 ⁹	29 ^{M 33}	28 ²⁵	29 ⁵⁹	n.a.
T 4	7 45 42	28 ⁵⁵ 18	25 ⁴⁵	9 ¹⁵	12 ⁴⁴	25 ³⁸	5 ²¹	0 ¹⁴	22 ⁴⁷	25 ⁵¹	19 ⁸	29 ^{R 33}	28 ²²	0 ⁵	n.a.
W 5	7 49 38	29 ⁵⁴ 40	9 ⁴⁹	10 ⁵²	13 ⁴⁷	26 ¹⁶	5 ³²	0 ¹⁶	22 ⁴⁵	25 ⁵⁰	19 ⁶	29 ³³	28 ¹⁹	0 ¹²	n.a.
T 6	7 53 35	0 ⁵⁴ 00	24 ²¹	12 ²⁹	14 ⁵⁰	26 ⁵⁴	5 ⁴³	0 ¹⁸	22 ⁴³	25 ⁵⁰	19 ⁴	29 ³¹	28 ¹⁵	0 ¹⁹	n.a.
F 7	7 57 32	1 ⁵³ 18	9 ¹⁷	14 ⁸	15 ⁵³	27 ³²	5 ⁵⁴	0 ¹⁹	22 ⁴¹	25 ⁴⁹	19 ³	29 ²⁶	28 ¹²	0 ²⁶	n.a.
S 8	8 1 28	2 ⁵² 33	24 ³⁰	15 ⁴⁹	16 ⁵⁶	28 ¹⁰	6 ⁴	0 ²¹	22 ⁴⁰	25 ⁴⁸	19 ¹	29 ¹⁹	28 ⁹	0 ³²	n.a.
S 9	8 5 25	3 ⁵¹ 45	9 ⁵¹	17 ³⁰	18 ⁰	28 ⁴⁸	6 ¹⁵	0 ²³	22 ³⁸	25 ⁴⁷	19 ⁰	29 ¹⁰	28 ⁶	0 ³⁹	n.a.
M 10	8 9 21	4 ⁵⁰ 56	25 ⁷	19 ¹³	19 ⁴	29 ²⁶	6 ²⁵	0 ²⁴	22 ³⁶	25 ⁴⁶	18 ⁵⁸	29 ⁰	28 ³	0 ⁴⁶	n.a.
T 11	8 13 18	5 ⁵⁰ 04	10 ¹¹	20 ⁵⁷	20 ⁸	0 ¹⁴	6 ³⁶	0 ²⁵	22 ³⁴	25 ⁴⁶	18 ⁵⁷	28 ⁵¹	28 ⁰	0 ⁵²	n.a.
W 12	8 17 14	6 ⁴⁹ 10	24 ⁴⁶	22 ⁴³	21 ¹³	0 ⁴²	6 ⁴⁶	0 ²⁷	22 ³³	25 ⁴⁵	18 ⁵⁵	28 ⁴³	27 ⁵⁶	0 ⁵⁹	n.a.
T 13	8 21 11	7 ⁴⁸ 14	8 ⁵⁵	24 ³⁰	22 ¹⁷	1 ²⁰	6 ⁵⁶	0 ²⁸	22 ³¹	25 ⁴⁴	18 ⁵⁴	28 ³⁷	27 ⁵³	1 ⁶	n.a.
F 14	8 25 7	8 ⁴⁷ 17	22 ³⁴	26 ¹⁸	23 ²²	1 ⁵⁸	7 ⁶	0 ²⁹	22 ²⁹	25 ⁴³	18 ⁵²	28 ³⁴	27 ⁵⁰	1 ¹²	n.a.
S 15	8 29 4	9 ⁴⁶ 17	5 ⁴⁴	28 ⁸	24 ²⁷	2 ³⁶	7 ¹⁶	0 ³⁰	22 ²⁸	25 ⁴²	18 ⁵¹	28 ^{D 33}	27 ⁴⁷	1 ¹⁹	n.a.
S 16	8 33 0	10 ⁴⁵ 15	18 ²⁹	29 ⁵⁹	25 ³²	3 ¹⁴	7 ²⁶	0 ³¹	22 ²⁶	25 ⁴¹	18 ⁴⁹	28 ³³	27 ⁴⁴	1 ²⁶	n.a.
M 17	8 36 57	11 ⁴⁴ 12	0 ⁵⁵	1 ⁵²	26 ³⁸	3 ⁵²	7 ³⁵	0 ³²	22 ²⁵	25 ⁴⁰	18 ⁴⁸	28 ^{R 33}	27 ⁴¹	1 ³³	n.a.
T 18	8 40 54	12 ⁴³ 07	13 ⁵	3 ⁴⁶	27 ⁴³	4 ³⁰	7 ⁴⁵	0 ³²	22 ²³	25 ³⁹	18 ⁴⁷	28 ³²	27 ³⁷	1 ³⁹	n.a.
W 19	8 44 50	13 ⁴² 00	25 ⁴	5 ⁴¹	28 ⁴⁹	5 ⁸	7 ⁵⁴	0 ³³	22 ²²	25 ³⁸	18 ⁴⁵	28 ²⁹	27 ³⁴	1 ⁴⁶	n.a.
T 20	8 48 47	14 ⁴⁰ 50	6 ⁵⁷	7 ³⁸	29 ⁵⁵	5 ⁴⁶	8 ⁴	0 ³⁴	22 ²¹	25 ³⁷	18 ⁴⁴	28 ²⁴	27 ³¹	1 ⁵³	n.a.
F 21	8 52 43	15 ³⁹ 39	18 ⁴⁷	9 ³⁶	1 ³	6 ²⁴	8 ¹³	0 ³⁴	22 ²⁰	25 ³⁵	18 ⁴²	28 ¹⁵	27 ²⁸	1 ⁵⁹	n.a.
S 22	8 56 40	16 ³⁸ 26	0 ³⁷	11 ³⁵	2 ⁷	7 ²	8 ²²	0 ³⁴	22 ¹⁸	25 ³⁴	18 ⁴¹	28 ⁴	27 ²⁵	2 ⁶	n.a.
S 23	9 0 36	17 ³⁷ 10	12 ²⁹	13 ³⁶	3 ¹⁴	7 ⁴⁰	8 ³¹	0 ³⁴	22 ¹⁷	25 ³³	18 ⁴⁰	27 ⁵¹	27 ²¹	2 ¹³	n.a.
M 24	9 4 33	18 ³⁵ 53	24 ²⁴	15 ³⁸	4 ²⁰	8 ¹⁷	8 ⁴⁰	0 ³⁵	22 ¹⁶	25 ³²	18 ³⁸	27 ³⁷	27 ¹⁸	2 ²⁰	n.a.
T 25	9 8 29	19 ³⁴ 33	6 ²⁴	17 ⁴¹	5 ²⁷	8 ⁵⁵	8 ⁴⁸	0 ^{R 35}	22 ¹⁵	25 ³¹					

SWISS EPHEMERIS for the year 1990 BCE

MARCH 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
S 1	9 24 16	23 ²⁸ 28'51	25 ^Υ 40	26 [≈] 1	9 ^Ω 55	11 ^Υ 27	9 [♂] 22	0 [°] R34	22 [°] R11	25 [°] R26	18 [°] R32	26 [°] R48	27 ^Μ . 2	2 [≈] 53	n.a.
S 2	9 28 12	24 [°] 27'20	8 ^Ω 29	28 [°] 8	11 [°] 2	12 [°] 5	9 [°] 30	0 ^Μ .33	22 ^{II} 10	25 ^Μ 24	18 ^Ω 31	26 ^Μ .46	26 [°] 59	3 [°] 0	n.a.
M 3	9 32 9	25 [°] 25'47	21 [°] 37	0 [♁] 14	12 [°] 9	12 [°] 43	9 [°] 38	0 [°] 33	22 [°] 10	25 [°] 23	18 [°] 30	26 [°] 45	26 [°] 56	3 [°] 7	n.a.
T 4	9 36 5	26 [°] 24'11	5 ^{II} 6	2 [°] 21	13 [°] 17	13 [°] 21	9 [°] 45	0 [°] 32	22 [°] 9	25 [°] 22	18 [°] 28	26 [°] 45	26 [°] 53	3 [°] 13	n.a.
W 5	9 40 2	27 [°] 22'33	18 [°] 59	4 [°] 27	14 [°] 24	13 [°] 59	9 [°] 53	0 [°] 31	22 [°] 8	25 [°] 20	18 [°] 27	26 [°] 44	26 [°] 50	3 [°] 20	n.a.
T 6	9 43 58	28 [°] 20'53	3 ^Ω 17	6 [°] 32	15 [°] 32	14 [°] 37	10 [°] 1	0 [°] 30	22 [°] 8	25 [°] 19	18 [°] 26	26 [°] 41	26 [°] 46	3 [°] 27	n.a.
F 7	9 47 55	29 [°] 19'10	17 [°] 58	8 [°] 37	16 [°] 40	15 [°] 15	10 [°] 8	0 [°] 30	22 [°] 7	25 [°] 17	18 [°] 25	26 [°] 36	26 [°] 43	3 [°] 33	n.a.
S 8	9 51 52	0 [♁] 17'26	2 ^Ω 58	10 [°] 39	17 [°] 48	15 [°] 53	10 [°] 15	0 [°] 28	22 [°] 6	25 [°] 16	18 [°] 24	26 [°] 28	26 [°] 40	3 [°] 40	n.a.
S 9	9 55 48	1 [°] 15'39	18 [°] 9	12 [°] 41	18 [°] 56	16 [°] 30	10 [°] 22	0 [°] 27	22 [°] 6	25 [°] 15	18 [°] 23	26 [°] 18	26 [°] 37	3 [°] 47	n.a.
M10	9 59 45	2 [°] 13'50	3 ^{II} 20	14 [°] 40	20 [°] 4	17 [°] 8	10 [°] 29	0 [°] 26	22 [°] 6	25 [°] 13	18 [°] 22	26 [°] 7	26 [°] 34	3 [°] 54	n.a.
T 11	10 3 41	3 [°] 11'58	18 [°] 21	16 [°] 37	21 [°] 12	17 [°] 46	10 [°] 36	0 [°] 25	22 [°] 5	25 [°] 12	18 [°] 21	25 [°] 56	26 [°] 31	4 [°] 0	n.a.
W12	10 7 38	4 [°] 10'06	3 ^Ω 2	18 [°] 31	22 [°] 20	18 [°] 24	10 [°] 42	0 [°] 23	22 [°] 5	25 [°] 10	18 [°] 20	25 [°] 47	26 [°] 27	4 [°] 7	n.a.
T 13	10 11 34	5 [°] 8'11	17 [°] 17	20 [°] 23	23 [°] 29	19 [°] 2	10 [°] 49	0 [°] 22	22 [°] 5	25 [°] 9	18 [°] 19	25 [°] 40	26 [°] 24	4 [°] 14	n.a.
F 14	10 15 31	6 [°] 6'15	1 ^{II} 3	22 [°] 11	24 [°] 37	19 [°] 40	10 [°] 55	0 [°] 20	22 [°] 4	25 [°] 7	18 [°] 18	25 [°] 36	26 [°] 21	4 [°] 20	n.a.
S 15	10 19 27	7 [°] 4'17	14 [°] 19	23 [°] 56	25 [°] 46	20 [°] 18	11 [°] 1	0 [°] 19	22 [°] 4	25 [°] 6	18 [°] 17	25 [°] 34	26 [°] 18	4 [°] 27	n.a.
S 16	10 23 24	8 [°] 2'18	27 [°] 9	25 [°] 38	26 [°] 55	20 [°] 55	11 [°] 7	0 [°] 17	22 [°] 4	25 [°] 4	18 [°] 16	25 [°] D34	26 [°] 15	4 [°] 34	n.a.
M17	10 27 21	9 [°] 0'17	9 [♁] 38	27 [°] 16	28 [°] 3	21 [°] 33	11 [°] 13	0 [°] 15	22 [°] D 4	25 [°] 3	18 [°] 15	25 [°] R34	26 [°] 12	4 [°] 41	n.a.
T 18	10 31 17	9 [°] 58'15	21 [°] 49	28 [°] 50	29 [°] 12	22 [°] 11	11 [°] 19	0 [°] 13	22 [°] 4	25 [°] 1	18 [°] 14	25 [°] 33	26 [°] 8	4 [°] 47	n.a.
W19	10 35 14	10 [°] 56'11	3 ^Ω 48	0 [♁] 20	0 [≈] 21	22 [°] 49	11 [°] 24	0 [°] 11	22 [°] 4	25 [°] 0	18 [°] 13	25 [°] 31	26 [°] 5	4 [°] 54	n.a.
T 20	10 39 10	11 [°] 54'06	15 [°] 40	1 [°] 46	1 [°] 30	23 [°] 27	11 [°] 30	0 [°] 9	22 [°] 4	24 [°] 58	18 [°] 13	25 [°] 27	26 [°] 2	5 [°] 1	n.a.
F 21	10 43 7	12 [°] 51'59	27 [°] 30	3 [°] 8	2 [°] 39	24 [°] 4	11 [°] 35	0 [°] 7	22 [°] 5	24 [°] 56	18 [°] 12	25 [°] 19	25 [°] 59	5 [°] 7	n.a.
S 22	10 47 3	13 [°] 49'50	9 [≈] 21	4 [°] 26	3 [°] 48	24 [°] 42	11 [°] 40	0 [°] 5	22 [°] 5	24 [°] 55	18 [°] 11	25 [°] 10	25 [°] 56	5 [°] 14	n.a.
S 23	10 51 0	14 [°] 47'40	21 [°] 16	5 [°] 40	4 [°] 58	25 [°] 20	11 [°] 45	0 [°] 2	22 [°] 5	24 [°] 53	18 [°] 10	24 [°] 58	25 [°] 52	5 [°] 21	n.a.
M24	10 54 56	15 [°] 45'29	3 [♁] 17	6 [°] 49	6 [°] 7	25 [°] 58	11 [°] 50	0 [°] 0	22 [°] 5	24 [°] 52	18 [°] 10	24 [°] 46	25 [°] 49	5 [°] 28	n.a.
T 25	10 58 53	16 [°] 43'16	15 [°] 25	7 [°] 54	7 [°] 16	26 [°] 36	11 [°] 54	29 ^Ω 57	22 [°] 6	24 [°] 50	18 [°] 9	24 [°] 33	25 [°] 46	5 [°] 34	n.a.
W26	11 2 50	17 [°] 41'01	27 [°] 42	8 [°] 54	8 [°] 26	27 [°] 14	11 [°] 58	29 [°] 55	22 [°] 6	24 [°] 48	18 [°] 8	24 [°] 22	25 [°] 43	5 [°] 41	n.a.
T 27	11 6 46	18 [°] 38'45	10 [°] Υ 9	9 [°] 50	9 [°] 35	27 [°] 51	12 [°] 3	29 [°] 52	22 [°] 7	24 [°] 47	18 [°] 8	24 [°] 13	25 [°] 40	5 [°] 48	n.a.
F 28	11 10 43	19 [°] 36'27	22 [°] 45	10 [°] 42	10 [°] 45	28 [°] 29	12 [°] 7	29 [°] 49	22 [°] 7	24 [°] 45	18 [°] 7	24 [°] 6	25 [°] 37	5 [°] 54	n.a.
S 29	11 14 39	20 [°] 34'07	5 ^Ω 33	11 [°] 28	11 [°] 55	29 [°] 7	12 [°] 10	29 [°] 46	22 [°] 8	24 [°] 44	18 [°] 6	24 [°] 2	25 [°] 33	6 [°] 1	n.a.
S 30	11 18 36	21 [°] 31'46	18 [°] 33	12 [°] 10	13 [°] 4	29 [°] 45	12 [°] 14	29 [°] 43	22 [°] 9	24 [°] 42	18 [°] 6	24 [°] D 1	25 [°] 30	6 [°] 8	n.a.
M31	11 22 32	22 [♁] 29'23	1 ^{II} 47	12 [°] Υ47	14 [≈] 14	0 ^Ω 22	12 [♁] 18	29 ^Ω 41	22 ^{II} 9	24 ^Μ 40	18 ^Ω 5	24 ^Μ . 1	25 ^Μ .27	6 [≈] 15	n.a.

Delta T = 13h22m22s Julian Calendar 1 March 1990 BCE == Greg. Calendar 12 Feb. 1990 BCE
 The year -1989 astronomical counting style corresponds to year 1990 B.C.E historical counting style.

APRIL 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
T 1	11 26 29	23 [♁] 26'58	15 ^{II} 18	13 ^Υ 20	15 [≈] 24	1 ^Ω 0	12 [♁] 21	29 [°] R37	22 ^{II} 10	24 [°] R39	18 [°] R 5	24 ^Μ . 1	25 ^Μ .24	6 [≈] 21	n.a.
W 2	11 30 25	24 [°] 24'32	29 [°] 7	13 [°] 47	16 [°] 34	1 [°] 38	12 [°] 24	29 ^Ω 34	22 [°] 11	24 ^Μ 37	18 ^Ω 5	24 [°] R 1	25 [°] 21	6 [°] 28	n.a.
T 3	11 34 22	25 [°] 22'04	13 ^Ω 15	14 [°] 10	17 [°] 44	2 [°] 16	12 [°] 27	29 [°] 31	22 [°] 12	24 [°] 35	18 [°] 4	24 [°] 0	25 [°] 18	6 [°] 35	n.a.
F 4	11 38 19	26 [°] 19'34	27 [°] 40	14 [°] 27	18 [°] 54	2 [°] 54	12 [°] 30	29 [°] 28	22 [°] 13	24 [°] 34	18 [°] 4	23 [°] 57	25 [°] 14	6 [°] 41	n.a.
S 5	11 42 15	27 [°] 17'03	12 ^Ω 21	14 [°] 40	20 [°] 4	3 [°] 31	12 [°] 32	29 [°] 25	22 [°] 14	24 [°] 32	18 [°] 3	23 [°] 51	25 [°] 11	6 [°] 48	n.a.
S 6	11 46 12	28 [°] 14'30	27 [°] 10	14 [°] 48	21 [°] 14	4 [°] 9	12 [°] 35	29 [°] 21	22 [°] 15	24 [°] 31	18 [°] 3	23 [°] 44	25 [°] 8	6 [°] 55	n.a.
M 7	11 50 8	29 [°] 11'55	12 ^Μ 1	14 [°] R51	22 [°] 24	4 [°] 47	12 [°] 37	29 [°] 18	22 [°] 16	24 [°] 29	18 [°] 3	23 [°] 36	25 [°] 5	7 [°] 2	n.a.
T 8	11 54 5	0 ^Υ 9'19	26 [°] 45	14 [°] 50	23 [°] 34	5 [°] 25	12 [°] 39	29 [°] 14	22 [°] 17	24 [°] 27	18 [°] 2	23 [°] 28	25 [°] 2	7 [°] 8	n.a.
W 9	11 58 1	1 [°] 6'42	11 ^Ω 14	14 [°] 43	24 [°] 44	6 [°] 2	12 [°] 41	29 [°] 11	22 [°] 18	24 [°] 26	18 [°] 2	23 [°] 21	24 [°] 58	7 [°] 15	n.a.
T 10	12 1 58	2 [°] 4'04	25 [°] 22	14 [°] 33	25 [°] 55	6 [°] 40	12 [°] 42	29 [°] 7	22 [°] 19	24 [°] 24	18 [°] 2	23 [°] 16	24 [°] 55	7 [°] 22	n.a.
F 11	12 5 54	3 [°] 1'25	9 ^Μ . 6	14 [°] 18	27 [°] 5	7 [°] 18	12 [°] 44	29 [°] 4	22 [°] 21	24 [°] 23	18 [°] 2	23 [°] 13	24 [°] 52	7 [°] 28	n.a.
S 12	12 9 51	3 [°] 58'45	22 [°] 23	14 [°] 0	28 [°] 15	7 [°] 55	12 [°] 45	29 [°] 0	22 [°] 22	24 [°] 21	18 [°] 2	23 [°] D12	24 [°] 49	7 [°] 35	n.a.
S 13	12 13 47	4 [°] 56'04	5 [♁] 16	13 [°] 37	29 [°] 26	8 [°] 33	12 [°] 46	28 [°] 56	22 [°] 23	24 [°] 19	18 [°] 2	23 [°] 12	24 [°] 46	7 [°] 42	n.a.
M14	12 17 44	5 [°] 53'22	17 [°] 48	13 [°] 12	0 [♁] 36	9 [°] 11	12 [°] 47	28 [°] 52	22 [°] 25	24 [°] 18	18 [°] 2	23 [°] 14	24 [°] 43	7 [°] 49	n.a.
T 15	12 21 41	6 [°] 50'40	0 ^Ω 2	12 [°] 44	1 [°] 47	9 [°] 49	12 [°] 48	28 [°] 48	22 [°] 26	24 [°] 16	18 [°] 1	23 [°] 15	24 [°] 39	7 [°] 55	n.a.
W16	12 25 37	7 [°] 47'56	12 [°] 4	12 [°] 14	2 [°] 58	10 [°] 26	12 [°] 48	28 [°] 45	22 [°] 28	24 [°] 15	18 [°] D 1	23 [°] R15	24 [°] 36	8 [°] 2	n.a.
T 17	12 29 34	8 [°] 45'12	23 [°] 58	11 [°] 42	4 [°] 8	11 [°] 4	12 [°] 49	28 [°] 41	22 [°] 29	24 [°] 13	18 [°] 1	23 [°] 13	24 [°] 33	8 [°] 9	n.a.
F 18	12 33 30	9 [°] 42'28	5 [≈] 50	11 [°] 9	5 [°] 19	11 [°] 42	12 [°] R49	28 [°] 37	22 [°] 31	24 [°] 12	18 [°] 2	23 [°] 10	24 [°] 30	8<	

SWISS EPHEMERIS for the year 1990 BCE

MAY 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
T 1	13 24 45	22°5'42	24°0	6°D15	20°X42	19°B52	12°R33	27°R42	22°II56	23°R52	18°E 5	22°R32	23°M.49	9°≈43	n.a.		
F 2	13 28 42	23° 2'47	8°Ω16	6°Y17	21°54	20°30	12°X31	27°Ω37	22°59	23°M.51	18° 5	22°M.32	23°45	9°50	n.a.		
S 3	13 32 39	23°59'52	22°38	6°24	23° 5	21° 8	12°28	27°33	23° 1	23°50	18° 6	22°30	23°42	9°56	n.a.		
S 4	13 36 35	24°56'55	7°M. 4	6°34	24°17	21°46	12°25	27°29	23° 3	23°48	18° 6	22°26	23°39	10° 3	n.a.		
M 5	13 40 32	25°53'58	21°28	6°50	25°28	22°23	12°22	27°24	23° 6	23°47	18° 7	22°23	23°36	10°10	n.a.		
T 6	13 44 28	26°51'00	5°Ω46	7°10	26°39	23° 1	12°19	27°20	23° 8	23°46	18° 7	22°19	23°33	10°16	n.a.		
W 7	13 48 25	27°48'02	19°52	7°35	27°51	23°39	12°16	27°16	23°11	23°44	18° 8	22°16	23°29	10°23	n.a.		
T 8	13 52 21	28°45'04	3°M.42	8° 4	29° 3	24°17	12°12	27°11	23°13	23°43	18° 9	22°14	23°26	10°30	n.a.		
F 9	13 56 18	29°42'05	17°12	8°38	0°Y14	24°54	12° 8	27° 7	23°16	23°42	18° 9	22°D13	23°23	10°37	n.a.		
S 10	14 0 14	0°B39'07	0°X22	9°16	1°26	25°32	12° 5	27° 2	23°18	23°41	18°10	22°13	23°20	10°43	n.a.		
S 11	14 4 11	1°36'08	13°12	9°59	2°37	26°10	12° 0	26°58	23°21	23°39	18°11	22°14	23°17	10°50	n.a.		
M12	14 8 7	2°33'10	25°43	10°46	3°49	26°48	11°56	26°54	23°23	23°38	18°12	22°16	23°14	10°57	n.a.		
T 13	14 12 4	3°30'11	7°B59	11°37	5° 1	27°25	11°52	26°49	23°26	23°37	18°12	22°17	23°10	11° 3	n.a.		
W14	14 16 1	4°27'13	20° 2	12°32	6°13	28° 3	11°47	26°45	23°29	23°36	18°13	22°18	23° 7	11°10	n.a.		
T 15	14 19 57	5°24'15	1°≈58	13°32	7°25	28°41	11°42	26°41	23°32	23°35	18°14	22°R19	23° 4	11°17	n.a.		
F 16	14 23 54	6°21'17	13°52	14°36	8°37	29°19	11°38	26°37	23°34	23°34	18°15	22°19	23° 1	11°24	n.a.		
S 17	14 27 50	7°18'20	25°47	15°43	9°48	29°56	11°33	26°32	23°37	23°33	18°16	22°18	22°58	11°30	n.a.		
S 18	14 31 47	8°15'23	7°X48	16°55	11° 0	0°II34	11°27	26°28	23°40	23°32	18°17	22°17	22°54	11°37	n.a.		
M19	14 35 43	9°12'26	19°59	18°10	12°12	1°12	11°22	26°24	23°43	23°31	18°18	22°15	22°51	11°44	n.a.		
T 20	14 39 40	10° 9'29	2°Y23	19°29	13°25	1°50	11°17	26°20	23°46	23°30	18°19	22°13	22°48	11°50	n.a.		
W21	14 43 36	11° 6'33	15° 3	20°52	14°37	2°28	11°11	26°15	23°49	23°29	18°20	22°12	22°45	11°57	n.a.		
T 22	14 47 33	12° 3'37	28° 0	22°19	15°49	3° 5	11° 5	26°11	23°52	23°28	18°21	22°10	22°42	12° 4	n.a.		
F 23	14 51 30	13° 0'42	11°B15	23°49	17° 1	3°43	10°59	26° 7	23°55	23°27	18°22	22°10	22°39	12° 11	n.a.		
S 24	14 55 26	13°57'47	24°46	25°24	18°13	4°21	10°53	26° 3	23°58	23°26	18°23	22°D10	22°35	12°17	n.a.		
S 25	14 59 23	14°54'52	8°II31	27° 1	19°25	4°59	10°47	25°59	24° 1	23°25	18°24	22°10	22°32	12°24	n.a.		
M26	15 3 19	15°51'58	22°29	28°42	20°38	5°37	10°41	25°55	24° 4	23°24	18°25	22°10	22°29	12°31	n.a.		
T 27	15 7 16	16°49'03	6°B35	0°B26	21°50	6°15	10°34	25°51	24° 7	23°23	18°27	22°11	22°26	12°38	n.a.		
W28	15 11 12	17°46'09	20°48	2°14	23° 2	6°52	10°28	25°47	24°11	23°23	18°28	22°11	22°23	12°44	n.a.		
T 29	15 15 9	18°43'15	5°Ω 4	4° 5	24°15	7°30	10°21	25°43	24°14	23°22	18°29	22°12	22°20	12°51	n.a.		
F 30	15 19 5	19°40'21	19°19	5°58	25°27	8° 8	10°14	25°39	24°17	23°21	18°30	22°R12	22°16	12°58	n.a.		
S 31	15 23 2	20°B37'28	3°M.32	7°B54	26°Y40	8°II46	10°X 8	25°Ω36	24°II20	23°M.20	18°E32	22°M.12	22°M.13	13°≈ 4	n.a.		

Delta T = 13h22m17s Julian Calendar 1 May 1990 BCE == Greg. Calendar 14 Apr. 1990 BCE
 The year -1989 astronomical counting style corresponds to year 1990 B.C.E historical counting style.

JUNE 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	15 26 59	21°B34'34	17°M.39	9°B52	27°Y52	9°II24	10°R 1	25°R32	24°II23	23°R20	18°E33	22°R12	22°M.10	13°≈11	n.a.		
M 2	15 30 55	22°31'41	1°Ω39	11°53	29° 5	10° 2	9°X54	25°Ω28	24°27	23°M.19	18°34	22°D12	22° 7	13°18	n.a.		
T 3	15 34 52	23°28'48	15°30	13°55	0°B17	10°40	9°47	25°25	24°30	23°18	18°36	22°M.12	22° 4	13°25	n.a.		
W 4	15 38 48	24°25'56	29° 8	15°59	1°30	11°18	9°39	25°21	24°33	23°18	18°37	22°12	22° 0	13°31	n.a.		
T 5	15 42 45	25°23'05	12°M.33	18° 5	2°43	11°56	9°32	25°18	24°37	23°17	18°38	22°12	21°57	13°38	n.a.		
F 6	15 46 41	26°20'14	25°44	20°11	3°55	12°34	9°25	25°14	24°40	23°17	18°40	22°R12	21°54	13°45	n.a.		
S 7	15 50 38	27°17'24	8°X39	22°18	5° 8	13°11	9°17	25°11	24°44	23°16	18°41	22°12	21°51	13°52	n.a.		
S 8	15 54 34	28°14'34	21°18	24°25	6°21	13°49	9°10	25° 8	24°47	23°16	18°43	22°11	21°48	13°58	n.a.		
M 9	15 58 31	29°11'46	3°B44	26°32	7°34	14°27	9° 2	25° 4	24°51	23°15	18°44	22°11	21°45	14° 5	n.a.		
T 10	16 2 28	0°II 8'59	15°56	28°40	8°46	15° 5	8°55	25° 1	24°54	23°15	18°46	22°10	21°41	14°12	n.a.		
W11	16 6 24	1° 6'13	27°59	0°II46	9°59	15°43	8°47	24°58	24°57	23°15	18°47	22° 9	21°38	14°18	n.a.		
T 12	16 10 21	2° 3'28	9°≈55	2°52	11°12	16°21	8°40	24°55	25° 1	23°14	18°49	22° 8	21°35	14°25	n.a.		
F 13	16 14 17	3° 0'44	21°48	4°57	12°25	16°59	8°32	24°52	25° 5	23°14	18°50	22° 7	21°32	14°32	n.a.		
S 14	16 18 14	3°58'01	3°X43	7° 2	13°38	17°37	8°24	24°49	25° 8	23°14	18°52	22°D 7	21°29	14°39	n.a.		
S 15	16 22 10	4°55'19	15°44	9° 5	14°51	18°15	8°16	24°46	25°12	23°13	18°54	22° 7	21°26	14°45	n.a.		
M16	16 26 7	5°52'39	27°55	11° 7	16° 4	18°53	8° 9	24°43	25°15	23°13	18°55	22° 8	21°22	14°52	n.a.		
T 17	16 30 3	6°50'00	10°Y21	13° 7	17°18	19°31	8° 1	24°41	25°19	23°13	18°57	22° 9	21°19	14°59	n.a.		
W18	16 34 0	7°47'23	23° 6	15° 6	18°31	20°10	7°53	24°38	25°22	23°13	18°59	22°10	21°16	15° 5	n.a.		
T 19	16 37 57	8°44'47	6°B12	17° 4	19°44	20°48	7°45	24°36	25°26	23°13	19° 0	22°11	21°13	15°12	n.a.		
F 20	16 41 53	9°42'12	19°40	19° 0	20°57	21°26	7°37	24°33	25°30	23°13	19° 2	22°R12	21°10	15°19	n.a.		
S 21	16 45 50	10°39'39	3°II30	20°55	22°11	22° 4	7°30	24°31	25°33	23°12	19° 4	22°11	21° 6	15°26	n.a.		
S 22	16 49 46	11°37'07	17°40	22°48	23°24	22°42	7°22	24°28	25°37	23°D12	19° 6	22°10	21° 3	15°32	n.a.		
M23	16 53 43	12°34'36	2°E 5	24°39	24°37	23°20	7°14	24°26	25°41	23°12	19° 7	22° 8	21° 0	15°39	n.a.		
T 24	16 57 39	13°32'06	16°39	26°30	25°51	23°58	7° 7	24°24	25°44	23°12	19° 9	22° 5	20°57	15°46	n.a.		
W25	17 1 36	14°29'38	1°Ω17	28°18	27° 4	24°37	6°59	24°22	25°48	23°13	19°11	22° 2	20°54	15°53	n.a.		
T 26	17 5 32	15°27'10	15°11	0°E 5	28°18	25°15	6°51	24°20	25°52	23°13	19°13	22° 0	20°51	15°59	n.a.		
F 27	17 9 29	16°24'44	0°M.16	1°50	29°31	25°53	6°44	24°18	25°55	23°13	19°15	21°58	20°47	16° 6	n.a.		
S 28	17 13 26	17°22'19	14°30	3°34	0°II45	26°31	6°36	24°16	25°59	23°13	19°16	21°D57	20°44	16°13	n.a.		
S 29	17 17 22	18°19'54	28°29	5°17	1°58	27° 9	6°29	24°15	26° 3	23°13	19°18	21°58	20°41	16°19	n.a.		
M30	17 21 19	19°II17'31	12°Ω13	6°E58	3°II12	27°II48	6°X21	24°Ω13	26°II 7	23°M.13	19°E20	21°M.59	20°M.38	16°≈26	n.a.		

Delta T = 13h22m15s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [6.2.2007]

SWISS EPHEMERIS for the year 1990 BCE

JULY 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	17 25 15	20II15°09	25Ω42	8♁37	4II26	28II26	6°R14	24°R12	26II10	23III14	19♁22	22II 0	20III35	16♁33	n.a.
W 2	17 29 12	21°12'49	8III57	10°15	5°39	29° 4	6♁ 7	24Ω10	26°14	23°14	19°24	22° 2	20°31	16°40	n.a.
T 3	17 33 8	22°10'30	21°58	11°52	6°53	29°42	5°59	24° 9	26°18	23°14	19°26	22°R 2	20°28	16°46	n.a.
F 4	17 37 5	23° 8'12	4♁46	13°27	8° 7	0♁21	5°52	24° 8	26°22	23°15	19°28	22° 1	20°25	16°53	n.a.
S 5	17 41 1	24° 5'56	17°23	15° 0	9°21	0°59	5°45	24° 6	26°25	23°15	19°30	21°59	20°22	17° 0	n.a.
S 6	17 44 58	25° 3'41	29°49	16°32	10°35	1°37	5°38	24° 5	26°29	23°15	19°32	21°55	20°19	17° 7	n.a.
M 7	17 48 55	26° 1'28	12♁5	18° 3	11°49	2°16	5°31	24° 4	26°33	23°16	19°34	21°50	20°16	17°13	n.a.
T 8	17 52 51	26°59'17	24°12	19°32	13° 3	2°54	5°25	24° 4	26°37	23°16	19°36	21°44	20°12	17°20	n.a.
W 9	17 56 48	27°57'08	6♁11	21° 0	14°16	3°33	5°18	24° 3	26°40	23°17	19°38	21°38	20° 9	17°27	n.a.
T 10	18 0 44	28°55'00	18° 5	22°26	15°30	4°11	5°11	24° 2	26°44	23°17	19°40	21°32	20° 6	17°33	n.a.
F 11	18 4 41	29°52'54	29°57	23°50	16°45	4°49	5° 5	24° 1	26°48	23°18	19°42	21°27	20° 3	17°40	n.a.
S 12	18 8 37	0♁50'51	11♁50	25°13	17°59	5°28	4°59	24° 1	26°52	23°19	19°44	21°23	20° 0	17°47	n.a.
S 13	18 12 34	1°48'49	23°49	26°35	19°13	6° 6	4°53	24° 1	26°55	23°19	19°46	21°21	19°57	17°54	n.a.
M 14	18 16 30	2°46'49	5♁57	27°55	20°27	6°45	4°46	24° 0	26°59	23°20	19°48	21°D21	19°53	18° 0	n.a.
T 15	18 20 27	3°44'52	18°21	29°13	21°41	7°23	4°41	24° 0	27° 3	23°21	19°50	21°22	19°50	18° 7	n.a.
W 16	18 24 24	4°42'56	1♁ 4	0♁29	22°55	8° 2	4°35	24° 0	27° 7	23°21	19°52	21°23	19°47	18°14	n.a.
T 17	18 28 20	5°41'03	14°10	1°44	24°10	8°41	4°29	24°D 0	27°10	23°22	19°54	21°24	19°44	18°21	n.a.
F 18	18 32 17	6°39'12	27°43	2°57	25°24	9°19	4°24	24° 0	27°14	23°23	19°56	21°R24	19°41	18°27	n.a.
S 19	18 36 13	7°37'23	11II42	4° 7	26°38	9°58	4°18	24° 0	27°18	23°24	19°58	21°22	19°37	18°34	n.a.
S 20	18 40 10	8°35'36	26° 7	5°16	27°53	10°36	4°13	24° 0	27°21	23°25	20° 1	21°19	19°34	18°41	n.a.
M 21	18 44 6	9°33'51	10♁53	6°23	29° 7	11°15	4° 8	24° 1	27°25	23°26	20° 3	21°13	19°31	18°47	n.a.
T 22	18 48 3	10°32'08	25°52	7°27	0♁22	11°54	4° 3	24° 1	27°29	23°26	20° 5	21° 6	19°28	18°54	n.a.
W 23	18 52 0	11°30'27	10♁55	8°29	1°36	12°32	3°58	24° 2	27°33	23°27	20° 7	20°58	19°25	19° 1	n.a.
T 24	18 55 56	12°28'48	25°52	9°29	2°51	13°11	3°54	24° 2	27°36	23°28	20° 9	20°51	19°22	19° 8	n.a.
F 25	18 59 53	13°27'10	10III35	10°26	4° 5	13°50	3°49	24° 3	27°40	23°29	20°11	20°45	19°18	19°14	n.a.
S 26	19 3 49	14°25'34	24°59	11°20	5°20	14°29	3°45	24° 4	27°44	23°31	20°13	20°42	19°15	19°21	n.a.
S 27	19 7 46	15°24'00	9♁ 0	12°11	6°34	15° 7	3°41	24° 5	27°47	23°32	20°15	20°40	19°12	19°28	n.a.
M 28	19 11 42	16°22'27	22°39	12°59	7°49	15°46	3°37	24° 6	27°51	23°33	20°18	20°D40	19° 9	19°35	n.a.
T 29	19 15 39	17°20'57	5III57	13°43	9° 4	16°25	3°34	24° 7	27°54	23°34	20°20	20°41	19° 6	19°41	n.a.
W 30	19 19 35	18°19'28	18°56	14°24	10°18	17° 4	3°30	24° 8	27°58	23°35	20°22	20°R41	19° 3	19°48	n.a.
T 31	19 23 32	19♁18'01	1♁40	15°0 0	11♁33	17♁43	3♁27	24Ω10	28II 2	23III36	20♁24	20III41	18III59	19♁55	n.a.

Delta T = 13h22m13s Julian Calendar 1 July 1990 BCE == Greg. Calendar 14 June 1990 BCE
 The year -1989 astronomical counting style corresponds to year 1990 B.C.E historical counting style.

AUGUST 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
F 1	19 27 29	20♁16'36	14♁11	15♁33	12♁48	18♁21	3°R23	24Ω11	28II 5	23III37	20♁26	20°R38	18III56	20♁ 1	n.a.
S 2	19 31 25	21°15'13	26°32	16° 0	14° 2	19° 0	3♁20	24°13	28° 9	23°39	20°28	20III33	18°53	20° 8	n.a.
S 3	19 35 22	22°13'52	8♁44	16°23	15°17	19°39	3°18	24°14	28°12	23°40	20°30	20°25	18°50	20°15	n.a.
M 4	19 39 18	23°12'33	20°50	16°41	16°32	20°18	3°15	24°16	28°16	23°41	20°32	20°15	18°47	20°22	n.a.
T 5	19 43 15	24°11'16	2♁50	16°53	17°47	20°57	3°13	24°18	28°19	23°43	20°35	20° 3	18°43	20°28	n.a.
W 6	19 47 11	25°10'01	14°45	16°R58	19° 2	21°36	3°10	24°20	28°23	23°44	20°37	19°51	18°40	20°35	n.a.
T 7	19 51 8	26° 8'49	26°38	16°58	20°17	22°15	3° 8	24°22	28°26	23°45	20°39	19°39	18°37	20°42	n.a.
F 8	19 55 4	27° 7'39	8♁29	16°51	21°32	22°54	3° 7	24°24	28°29	23°47	20°41	19°28	18°34	20°48	n.a.
S 9	19 59 1	28° 6'31	20°22	16°37	22°47	23°33	3° 5	24°26	28°33	23°48	20°43	19°20	18°31	20°55	n.a.
S 10	20 2 58	29° 5'25	2♁19	16°15	24° 1	24°12	3° 3	24°28	28°36	23°50	20°45	19°14	18°28	21° 2	n.a.
M 11	20 6 54	0♁ 4'22	14°25	15°47	25°16	24°52	3° 2	24°31	28°40	23°51	20°47	19°11	18°24	21° 9	n.a.
T 12	20 10 51	1° 3'22	26°45	15°11	26°32	25°31	3° 1	24°33	28°43	23°53	20°50	19°D10	18°21	21°15	n.a.
W 13	20 14 47	2° 2'23	9♁23	14°28	27°47	26°10	3° 0	24°36	28°46	23°54	20°52	19°10	18°18	21°22	n.a.
T 14	20 18 44	3° 1'28	22°23	13°38	29° 2	26°49	2°59	24°38	28°49	23°56	20°54	19°R10	18°15	21°29	n.a.
F 15	20 22 40	4° 0'35	5II51	12°42	0♁17	27°28	2°59	24°41	28°53	23°57	20°56	19° 9	18°12	21°36	n.a.
S 16	20 26 37	4°59'44	19°48	11°41	1°32	28° 8	2°59	24°44	28°56	23°59	20°58	19° 6	18° 9	21°42	n.a.
S 17	20 30 33	5°58'56	4♁15	10°36	2°47	28°47	2°D59	24°47	28°59	24° 1	21° 0	19° 0	18° 5	21°49	n.a.
M 18	20 34 30	6°58'11	19° 7	9°28	4° 2	29°26	2°59	24°50	29° 2	24° 2	21° 2	18°52	18° 2	21°56	n.a.
T 19	20 38 27	7°57'27	4♁17	8°19	5°17	0♁ 6	2°59	24°53	29° 5	24° 4	21° 4	18°42	17°59	22° 2	n.a.
W 20	20 42 23	8°56'46	19°36	7°11	6°33	0°45	2°59	24°56	29° 9	24° 6	21° 6	18°30	17°56	22° 9	n.a.
T 21	20 46 20	9°56'07	4III52	6° 5	7°48	1°24	3° 0	24°59	29°12	24° 7	21° 8	18°20	17°53	22°16	n.a.
F 22	20 50 16	10°55'30	19°53	5° 4	9° 3	2° 4	3° 1	25° 2	29°15	24° 9	21°10	18°11	17°49	22°23	n.a.
S 23	20 54 13	11°54'55	4♁32	4° 9	10°18	2°43	3° 2	25° 6	29°18	24°11	21°12	18° 4	17°46	22°29	n.a.
S 24	20 58 9	12°54'22	18°44	3°21	11°34	3°23	3° 3	25° 9	29°21	24°13	21°14	18° 1	17°43	22°36	n.a.
M 25	21 2 6	13°53'51	2III28	2°43	12°49	4° 2	3° 5	25°13	29°24	24°14	21°16	17°59	17°40	22°43	n.a.
T 26	21 6 2	14°53'22	15°46	2°14	14° 4	4°42	3° 7	25°17	29°27	24°16	21°18	17°59	17°37	22°50	n.a.
W 27	21 9 59	15°52'55	28°40	1°56	15°19	5°21	3° 9	25°20	29°29	24°18	21°20	17°59	17°34	22°56	n.a.
T 28	21 13 56	16°52'30	11♁16	1°D48	16°35	6° 1	3°11	25°24	29°32	24°20	21°22	17°57	17°30	23° 3	n.a.
F 29	21 17 52	17°52'06	23°37	1°52	17°50	6°40	3°13	25°28	29°35	24°22	21°24	17°54	17°27	23°10	n.a.
S 30	21 21 49	18°51'45	5♁47	2° 6	19° 5	7°20	3°15	25°32	29°38	24°24	21°26	17°47	17°24	23°16	n.a.
S 31	21 25 45	19♁51'26	17♁50	2♁31	20♁21	8♁ 0	3♁18	25Ω36	29II41	24III26	21♁28	17III38	17III21	23♁23	n.a.

Delta T = 13h22m11s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [6.2.2007]

SWISS EPHEMERIS for the year 1990 BCE

SEPTEMBER 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	21 29 42	20 ^h 51 ^m 08 ^s	29 ^h 34 ^m 48 ^s	3 ^h Ω 5	21 ^h Ω36	8 ^h Ω39	3 ^h ♂21	25 ^h ♁40	29 ^h ♂43	24 ^h ♂28	21 ^h ♁30	17 ^h R26	17 ^h ♌18	23 ^h ♁30	n.a.		
T 2	21 33 38	21 ^h 50 ^m 53 ^s	11 ^h ♁42	3 ^h 48	22 ^h 51	9 ^h 19	3 ^h 24	25 ^h 44	29 ^h 46	24 ^h 30	21 ^h 32	17 ^h ♌12	17 ^h 15	23 ^h 37	n.a.		
W 3	21 37 35	22 ^h 50 ^m 40 ^s	23 ^h 35	4 ^h 39	24 ^h 7	9 ^h 59	3 ^h 27	25 ^h 49	29 ^h 49	24 ^h 32	21 ^h 34	16 ^h 57	17 ^h 11	23 ^h 43	n.a.		
T 4	21 41 31	23 ^h 50 ^m 29 ^s	5 ^h ♁28	5 ^h 38	25 ^h 22	10 ^h 38	3 ^h 31	25 ^h 53	29 ^h 51	24 ^h 34	21 ^h 36	16 ^h 43	17 ^h 8	23 ^h 50	n.a.		
F 5	21 45 28	24 ^h 50 ^m 20 ^s	17 ^h 21	6 ^h 44	26 ^h 37	11 ^h 18	3 ^h 34	25 ^h 58	29 ^h 54	24 ^h 36	21 ^h 38	16 ^h 30	17 ^h 5	23 ^h 57	n.a.		
S 6	21 49 25	25 ^h 50 ^m 13 ^s	29 ^h 18	7 ^h 55	27 ^h 53	11 ^h 58	3 ^h 38	26 ^h 2	29 ^h 56	24 ^h 38	21 ^h 40	16 ^h 20	17 ^h 2	24 ^h 3	n.a.		
S 7	21 53 21	26 ^h 50 ^m 09 ^s	11 ^h ♀19	9 ^h 12	29 ^h 8	12 ^h 38	3 ^h 42	26 ^h 7	29 ^h 59	24 ^h 40	21 ^h 41	16 ^h 12	16 ^h 59	24 ^h 10	n.a.		
M 8	21 57 18	27 ^h 50 ^m 07 ^s	23 ^h 28	10 ^h 33	0 ^h ♂24	13 ^h 18	3 ^h 46	26 ^h 11	0 ^h ♁ 1	24 ^h 42	21 ^h 43	16 ^h 8	16 ^h 55	24 ^h 17	n.a.		
T 9	22 1 14	28 ^h 50 ^m 07 ^s	5 ^h ♁48	11 ^h 57	1 ^h 39	13 ^h 58	3 ^h 50	26 ^h 16	0 ^h 3	24 ^h 44	21 ^h 45	16 ^h 6	16 ^h 52	24 ^h 24	n.a.		
W10	22 5 11	29 ^h 50 ^m 09 ^s	18 ^h 24	13 ^h 25	2 ^h 55	14 ^h 38	3 ^h 55	26 ^h 21	0 ^h 6	24 ^h 46	21 ^h 47	16 ^h D 5	16 ^h 49	24 ^h 30	n.a.		
T 11	22 9 7	0 ^h ♂50 ^m 14 ^s	1 ^h ♂19	14 ^h 55	4 ^h 10	15 ^h 18	3 ^h 59	26 ^h 26	0 ^h 8	24 ^h 48	21 ^h 49	16 ^h R 6	16 ^h 46	24 ^h 37	n.a.		
F 12	22 13 4	1 ^h 50 ^m 22 ^s	14 ^h 39	16 ^h 28	5 ^h 25	15 ^h 58	4 ^h 4	26 ^h 31	0 ^h 10	24 ^h 50	21 ^h 50	16 ^h 5	16 ^h 43	24 ^h 44	n.a.		
S 13	22 17 0	2 ^h 50 ^m 31 ^s	28 ^h 26	18 ^h 2	6 ^h 41	16 ^h 38	4 ^h 9	26 ^h 36	0 ^h 13	24 ^h 52	21 ^h 52	16 ^h 3	16 ^h 40	24 ^h 51	n.a.		
S 14	22 20 57	3 ^h 50 ^m 43 ^s	12 ^h ♁41	19 ^h 37	7 ^h 56	17 ^h 18	4 ^h 15	26 ^h 41	0 ^h 15	24 ^h 54	21 ^h 54	15 ^h 58	16 ^h 36	24 ^h 57	n.a.		
M15	22 24 53	4 ^h 50 ^m 58 ^s	27 ^h 24	21 ^h 14	9 ^h 12	17 ^h 58	4 ^h 20	26 ^h 46	0 ^h 17	24 ^h 56	21 ^h 55	15 ^h 50	16 ^h 33	25 ^h 4	n.a.		
T 16	22 28 50	5 ^h 51 ^m 14 ^s	12 ^h ♂28	22 ^h 52	10 ^h 27	18 ^h 38	4 ^h 26	26 ^h 51	0 ^h 19	24 ^h 59	21 ^h 57	15 ^h 41	16 ^h 30	25 ^h 11	n.a.		
W17	22 32 47	6 ^h 51 ^m 33 ^s	27 ^h 45	24 ^h 30	11 ^h 43	19 ^h 18	4 ^h 31	26 ^h 56	0 ^h 21	25 ^h 1	21 ^h 59	15 ^h 30	16 ^h 27	25 ^h 17	n.a.		
T 18	22 36 43	7 ^h 51 ^m 53 ^s	13 ^h ♂ 3	26 ^h 9	12 ^h 58	19 ^h 58	4 ^h 37	27 ^h 1	0 ^h 23	25 ^h 3	22 ^h 0	15 ^h 20	16 ^h 24	25 ^h 24	n.a.		
F 19	22 40 40	8 ^h 52 ^m 15 ^s	28 ^h 13	27 ^h 47	14 ^h 14	20 ^h 39	4 ^h 43	27 ^h 7	0 ^h 25	25 ^h 5	22 ^h 2	15 ^h 11	16 ^h 20	25 ^h 31	n.a.		
S 20	22 44 36	9 ^h 52 ^m 39 ^s	13 ^h ♁ 2	29 ^h 27	15 ^h 29	21 ^h 19	4 ^h 50	27 ^h 12	0 ^h 27	25 ^h 7	22 ^h 4	15 ^h 5	16 ^h 17	25 ^h 38	n.a.		
S 21	22 48 33	10 ^h 53 ^m 05 ^s	27 ^h 26	1 ^h ♂ 6	16 ^h 45	21 ^h 59	4 ^h 56	27 ^h 18	0 ^h 28	25 ^h 9	22 ^h 5	15 ^h 1	16 ^h 14	25 ^h 44	n.a.		
M22	22 52 29	11 ^h 53 ^m 33 ^s	11 ^h ♂20	2 ^h 45	18 ^h 0	22 ^h 39	5 ^h 2	27 ^h 23	0 ^h 30	25 ^h 12	22 ^h 7	15 ^h D 0	16 ^h 11	25 ^h 51	n.a.		
T 23	22 56 26	12 ^h 54 ^m 02 ^s	24 ^h 45	4 ^h 24	19 ^h 16	23 ^h 20	5 ^h 9	27 ^h 29	0 ^h 32	25 ^h 14	22 ^h 8	15 ^h 0	16 ^h 8	25 ^h 58	n.a.		
W24	23 0 22	13 ^h 54 ^m 32 ^s	7 ^h ♁44	6 ^h 2	20 ^h 31	24 ^h 0	5 ^h 16	27 ^h 35	0 ^h 34	25 ^h 16	22 ^h 10	15 ^h R 1	16 ^h 5	26 ^h 5	n.a.		
T 25	23 4 19	14 ^h 55 ^m 05 ^s	20 ^h 21	7 ^h 41	21 ^h 46	24 ^h 41	5 ^h 23	27 ^h 40	0 ^h 35	25 ^h 18	22 ^h 11	15 ^h 1	16 ^h 1	26 ^h 11	n.a.		
F 26	23 8 16	15 ^h 55 ^m 38 ^s	2 ^h ♁1	9 ^h 19	23 ^h 2	25 ^h 21	5 ^h 30	27 ^h 46	0 ^h 37	25 ^h 21	22 ^h 13	14 ^h 59	15 ^h 58	26 ^h 18	n.a.		
S 27	23 12 12	16 ^h 56 ^m 13 ^s	14 ^h 47	10 ^h 58	24 ^h 17	26 ^h 1	5 ^h 38	27 ^h 52	0 ^h 38	25 ^h 23	22 ^h 14	14 ^h 55	15 ^h 55	26 ^h 25	n.a.		
S 28	23 16 9	17 ^h 56 ^m 50 ^s	26 ^h 46	12 ^h 35	25 ^h 33	26 ^h 42	5 ^h 45	27 ^h 58	0 ^h 40	25 ^h 25	22 ^h 15	14 ^h 49	15 ^h 52	26 ^h 31	n.a.		
M29	23 20 5	18 ^h 57 ^m 28 ^s	8 ^h ♁39	14 ^h 13	26 ^h 48	27 ^h 22	5 ^h 53	28 ^h 4	0 ^h 41	25 ^h 27	22 ^h 17	14 ^h 40	15 ^h 49	26 ^h 38	n.a.		
T 30	23 24 2	19 ^h 58 ^m 07 ^s	20 ^h ♁31	15 ^h ♂50	28 ^h ♂ 4	28 ^h Ω 3	6 ^h ♁ 1	28 ^h Ω10	0 ^h ♁43	25 ^h ♂30	22 ^h ♁18	14 ^h ♂30	15 ^h ♂46	26 ^h ♁45	n.a.		

Delta T = 13h22m09s Julian Calendar 1 Sept. 1990 BCE == Greg. Calendar 15 Aug. 1990 BCE
 The year -1989 astronomical counting style corresponds to year 1990 B.C.E historical counting style.

OCTOBER 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	23 27 58	20 ^h 58 ^m 48 ^s	2 ^h ♁24	17 ^h ♂27	29 ^h ♂19	28 ^h Ω44	6 ^h ♁ 9	28 ^h Ω16	0 ^h ♁44	25 ^h ♂32	22 ^h ♁19	14 ^h R19	15 ^h ♂42	26 ^h ♁52	n.a.		
T 2	23 31 55	21 ^h 59 ^m 31 ^s	14 ^h 19	19 ^h 4	0 ^h ♁35	29 ^h 24	6 ^h 17	28 ^h 22	0 ^h 45	25 ^h 34	22 ^h 21	14 ^h ♌ 8	15 ^h 39	26 ^h 58	n.a.		
F 3	23 35 51	23 ^h 0 ^m 15 ^s	26 ^h 18	20 ^h 40	1 ^h 50	0 ^h ♂ 5	6 ^h 25	28 ^h 28	0 ^h 46	25 ^h 36	22 ^h 22	13 ^h 59	15 ^h 36	27 ^h 5	n.a.		
S 4	23 39 48	24 ^h 1 ^m 00 ^s	8 ^h ♀23	22 ^h 16	3 ^h 5	0 ^h 45	6 ^h 33	28 ^h 34	0 ^h 47	25 ^h 39	22 ^h 23	13 ^h 51	15 ^h 33	27 ^h 12	n.a.		
S 5	23 43 45	25 ^h 1 ^m 48 ^s	20 ^h 34	23 ^h 52	4 ^h 21	1 ^h 26	6 ^h 42	28 ^h 40	0 ^h 49	25 ^h 41	22 ^h 24	13 ^h 46	15 ^h 30	27 ^h 18	n.a.		
M 6	23 47 41	26 ^h 2 ^m 36 ^s	2 ^h ♁53	25 ^h 28	5 ^h 36	2 ^h 7	6 ^h 50	28 ^h 46	0 ^h 50	25 ^h 43	22 ^h 26	13 ^h 43	15 ^h 26	27 ^h 25	n.a.		
T 7	23 51 38	27 ^h 3 ^m 27 ^s	15 ^h 23	27 ^h 3	6 ^h 52	2 ^h 48	6 ^h 59	28 ^h 53	0 ^h 51	25 ^h 45	22 ^h 27	13 ^h D43	15 ^h 23	27 ^h 32	n.a.		
W 8	23 55 34	28 ^h 4 ^m 19 ^s	28 ^h 6	28 ^h 38	8 ^h 7	3 ^h 28	7 ^h 8	28 ^h 59	0 ^h 51	25 ^h 48	22 ^h 28	13 ^h 44	15 ^h 20	27 ^h 39	n.a.		
T 9	23 59 31	29 ^h 5 ^m 13 ^s	11 ^h ♂ 5	0 ^h ♁13	9 ^h 22	4 ^h 9	7 ^h 17	29 ^h 5	0 ^h 52	25 ^h 50	22 ^h 29	13 ^h 45	15 ^h 17	27 ^h 45	n.a.		
F 10	0 3 27	0 ^h ♁ 6 ^m 09 ^s	24 ^h 23	1 ^h 48	10 ^h 38	4 ^h 50	7 ^h 26	29 ^h 12	0 ^h 53	25 ^h 52	22 ^h 30	13 ^h R46	15 ^h 14	27 ^h 52	n.a.		
S 11	0 7 24	1 ^h 7 ^m 06 ^s	8 ^h ♁ 2	3 ^h 23	11 ^h 53	5 ^h 31	7 ^h 36	29 ^h 18	0 ^h 54	25 ^h 54	22 ^h 31	13 ^h 46	15 ^h 11	27 ^h 59	n.a.		
S 12	0 11 20	2 ^h 8 ^m 05 ^s	22 ^h 4	4 ^h 57	13 ^h 9	6 ^h 12	7 ^h 45	29 ^h 25	0 ^h 55	25 ^h 57	22 ^h 32	13 ^h 44	15 ^h 7	28 ^h 5	n.a.		
M13	0 15 17	3 ^h 9 ^m 05 ^s	6 ^h Ω28	6 ^h 31	14 ^h 24	6 ^h 53	7 ^h 55	29 ^h 31	0 ^h 55	25 ^h 59	22 ^h 33	13 ^h 41	15 ^h 4	28 ^h 12	n.a.		
T 14	0 19 14	4 ^h 10 ^m 07 ^s	21 ^h 12	8 ^h 5	15 ^h 39	7 ^h 34	8 ^h 4	29 ^h 38	0 ^h 56	26 ^h 1	22 ^h 34	13 ^h 35	15 ^h 1	28 ^h 19	n.a.		
W15	0 23 10	5 ^h 11 ^m 10 ^s	6 ^h ♂ 9	9 ^h 39	16 ^h 55	8 ^h 15	8 ^h 14	29 ^h 44	0 ^h 56	26 ^h 3	22 ^h 35	13 ^h 29	14 ^h 58	28 ^h 26	n.a.		
T 16	0 27 7	6 ^h 12 ^m 14 ^s	21 ^h 11	11 ^h 13	18 ^h 10	8 ^h 56	8 ^h 24	29 ^h 51	0 ^h 57	26 ^h 6	22 ^h 36	13 ^h 24	14 ^h 55	28 ^h 32	n.a.		
F 17	0 31 3	7 ^h 13 ^m 20 ^s	6 ^h ♁10	12 ^h 47	19												

SWISS EPHEMERIS for the year 1990 BCE

NOVEMBER 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	1 30 11	22♁31'16	17♍12	6♋ 8	8♌14	19♎57	11♌18	1♋40	0°R57	26♎40	22♁46	12°R55	14♋ 4	0♃20	n.a.		
S 2	1 34 8	23°32'32	29°38	7°40	9°29	20°39	11°30	1°47	0♁56	26°42	22°46	12♋53	14° 1	0°27	n.a.		
M 3	1 38 5	24°33'48	12♁15	9°12	10°45	21°20	11°42	1°54	0°56	26°44	22°46	12°D53	13°57	0°33	n.a.		
T 4	1 42 1	25°35'05	25° 4	10°44	12° 0	22° 2	11°54	2° 1	0°55	26°46	22°46	12°53	13°54	0°40	n.a.		
W 5	1 45 58	26°36'23	8♋ 6	12°15	13°15	22°44	12° 6	2° 8	0°55	26°48	22°47	12°54	13°51	0°47	n.a.		
T 6	1 49 54	27°37'41	21°20	13°45	14°30	23°25	12°18	2°15	0°54	26°51	22°47	12°56	13°48	0°53	n.a.		
F 7	1 53 51	28°39'00	4♁49	15°15	15°45	24° 7	12°30	2°22	0°53	26°53	22°47	12°57	13°45	1° 0	n.a.		
S 8	1 57 47	29°40'19	18°31	16°43	17° 0	24°49	12°42	2°29	0°52	26°54	22°47	12°58	13°42	1° 7	n.a.		
S 9	2 1 44	0♋41'39	2♁28	18°10	18°15	25°31	12°54	2°36	0°51	26°56	22°47	12°R58	13°38	1°14	n.a.		
M10	2 5 40	1°42'59	16°39	19°36	19°30	26°13	13° 7	2°43	0°51	26°58	22°47	12°58	13°35	1°20	n.a.		
T11	2 9 37	2°44'20	1♎ 1	21° 0	20°45	26°54	13°19	2°50	0°50	27° 0	22°47	12°57	13°32	1°27	n.a.		
W12	2 13 34	3°45'41	15°31	22°22	22° 0	27°36	13°32	2°57	0°49	27° 2	22°R47	12°56	13°29	1°34	n.a.		
T13	2 17 30	4°47'02	0♁ 5	23°41	23°15	28°18	13°44	3° 4	0°47	27° 4	22°47	12°54	13°26	1°40	n.a.		
F14	2 21 27	5°48'24	14°37	24°58	24°30	29° 0	13°57	3°11	0°46	27° 6	22°47	12°54	13°23	1°47	n.a.		
S15	2 25 23	6°49'45	29° 1	26°10	25°45	29°42	14°10	3°18	0°45	27° 8	22°47	12°53	13°19	1°54	n.a.		
S16	2 29 20	7°51'07	13♋12	27°19	27° 0	0♁24	14°23	3°25	0°44	27°10	22°47	12°D53	13°16	2° 1	n.a.		
M17	2 33 16	8°52'29	27° 4	28°23	28°15	1° 6	14°35	3°32	0°43	27°12	22°47	12°53	13°13	2° 7	n.a.		
T18	2 37 13	9°53'50	10♌35	29°22	29°30	1°48	14°48	3°39	0°41	27°13	22°47	12°53	13°10	2°14	n.a.		
W19	2 41 9	10°55'11	23°44	0♌14	0♌45	2°31	15° 1	3°46	0°40	27°15	22°47	12°54	13° 7	2°21	n.a.		
T20	2 45 6	11°56'32	6♁31	0°59	2° 0	3°13	15°14	3°53	0°39	27°17	22°46	12°54	13° 3	2°28	n.a.		
F21	2 49 3	12°57'52	19° 0	1°36	3°15	3°55	15°28	4° 0	0°37	27°19	22°46	12°R54	13° 0	2°34	n.a.		
S22	2 52 59	13°59'11	1♁12	2° 5	4°30	4°37	15°41	4° 7	0°36	27°20	22°46	12°54	12°57	2°41	n.a.		
S23	2 56 56	15° 0'30	13°13	2°23	5°45	5°19	15°54	4°14	0°34	27°22	22°45	12°D54	12°54	2°48	n.a.		
M24	3 0 52	16° 1'48	25° 7	2°R31	7° 0	6° 1	16° 7	4°21	0°32	27°24	22°45	12°54	12°51	2°54	n.a.		
T25	3 4 49	17° 3'06	6♃58	2°27	8°14	6°44	16°21	4°27	0°31	27°25	22°45	12°54	12°48	3° 1	n.a.		
W26	3 8 45	18° 4'22	18°52	2°12	9°29	7°26	16°34	4°34	0°29	27°27	22°44	12°55	12°44	3° 8	n.a.		
T27	3 12 42	19° 5'38	0♍53	1°45	10°44	8° 8	16°48	4°41	0°27	27°28	22°44	12°55	12°41	3°15	n.a.		
F28	3 16 38	20° 6'53	13° 4	1° 6	11°59	8°51	17° 1	4°48	0°26	27°30	22°43	12°56	12°38	3°21	n.a.		
S29	3 20 35	21° 8'08	25°29	0°17	13°13	9°33	17°15	4°55	0°24	27°31	22°43	12°57	12°35	3°28	n.a.		
S30	3 24 31	22♋ 9'22	8♁ 9	29♋18	14♌28	10♁16	17♌28	5♋ 2	0♁22	27♎33	22♁42	12°R57	12♋32	3♃35	n.a.		

Delta T = 13h22m04s Julian Calendar 1 Nov. 1990 BCE == Greg. Calendar 15 Oct. 1990 BCE
 The year -1989 astronomical counting style corresponds to year 1990 B.C.E historical counting style.

DECEMBER 1990 BCE (-1989) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	3 28 28	23♋10'35	21♁ 5	28°R10	15♌43	10♁58	17♌42	5♋ 9	0°R20	27♎34	22°R41	12°R57	12♋28	3♃41	n.a.		
T 2	3 32 25	24°11'47	4♋18	26♋57	16°58	11°41	17°56	5°15	0♁18	27°36	22♁41	12♋56	12°25	3°48	n.a.		
W 3	3 36 21	25°12'58	17°46	25°40	18°12	12°23	18° 9	5°22	0°16	27°37	22°40	12°55	12°22	3°55	n.a.		
T 4	3 40 18	26°14'09	1♁27	24°22	19°27	13° 6	18°23	5°29	0°14	27°39	22°39	12°53	12°19	4° 2	n.a.		
F 5	3 44 14	27°15'20	15°19	23° 4	20°41	13°48	18°37	5°36	0°12	27°40	22°39	12°51	12°16	4° 8	n.a.		
S 6	3 48 11	28°16'29	29°20	21°51	21°56	14°31	18°51	5°42	0°10	27°41	22°38	12°50	12°13	4°15	n.a.		
S 7	3 52 7	29°17'38	13♁26	20°42	23°10	15°13	19° 5	5°49	0° 8	27°43	22°37	12°48	12° 9	4°22	n.a.		
M 8	3 56 4	0♌18'47	27°36	19°41	24°25	15°56	19°18	5°55	0° 6	27°44	22°36	12°D48	12° 6	4°28	n.a.		
T 9	4 0 1	1°19'54	11♎46	18°47	25°39	16°39	19°32	6° 2	0° 4	27°45	22°36	12°48	12° 3	4°35	n.a.		
W10	4 3 57	2°21'01	25°56	18° 2	26°54	17°21	19°46	6° 9	0° 1	27°47	22°35	12°49	12° 0	4°42	n.a.		
T11	4 7 54	3°22'07	10♁ 3	17°26	28° 8	18° 4	20° 0	6°15	29♁59	27°48	22°34	12°50	11°57	4°49	n.a.		
F12	4 11 50	4°23'12	24° 5	16°59	29°23	18°47	20°14	6°22	29°57	27°49	22°33	12°52	11°54	4°55	n.a.		
S13	4 15 47	5°24'17	8♋ 0	16°41	0♁37	19°30	20°29	6°28	29°55	27°50	22°32	12°R53	11°50	5° 2	n.a.		
S14	4 19 43	6°25'20	21°44	16°32	1°52	20°13	20°43	6°34	29°52	27°51	22°31	12°52	11°47	5° 9	n.a.		
M15	4 23 40	7°26'22	5♌16	16°D31	3° 6	20°56	20°57	6°41	29°50	27°52	22°30	12°51	11°44	5°15	n.a.		
T16	4 27 36	8°27'23	18°33	16°38	4°20	21°38	21°11	6°47	29°47	27°53	22°29	12°48	11°41	5°22	n.a.		
W17	4 31 33	9°28'23	1♁33	16°51	5°34	22°21	21°25	6°54	29°45	27°54	22°28	12°44	11°38	5°29	n.a.		
T18	4 35 30	10°29'21	14°17	17°11	6°49	23° 4	21°39	7° 0	29°43	27°55	22°27	12°39	11°34	5°36	n.a.		
F19	4 39 26	11°30'18	26°44	17°38	8° 3	23°47	21°53	7° 6	29°40	27°56	22°26	12°34	11°31	5°42	n.a.		
S20	4 43 23	12°31'13	8♁57	18° 9	9°17	24°30	22° 8	7°12	29°38	27°57	22°25	12°30	11°28	5°49	n.a.		
S21	4 47 19	13°32'07	20°59	18°46	10°31	25°13	22°22	7°18	29°35	27°58	22°24	12°26	11°25	5°56	n.a.		
M22	4 51 16	14°32'59	2♃54	19°27	11°45	25°56	22°36	7°24	29°33	27°59	22°22	12°24	11°22	6° 2	n.a.		
T23	4 55 12	15°33'49	14°45	20°13	12°59	26°39	22°50	7°30	29°30	28° 0	22°21	12°D23	11°19	6° 9	n.a.		
W24	4 59 9	16°34'37	26°38	21° 2	14°13	27°22	23° 5	7°36	29°28	28° 0	22°20	12°24	11°15	6°16	n.a.		
T25	5 3 5	17°35'24	8♍38	21°55	15°27	28° 5	23°19	7°42	29°25	28° 1	22°19	12°25	11°12	6°23	n.a.		
F26	5 7 2	18°36'08	20°50	22°51	16°41	28°49	23°33	7°48	29°23	28° 2	22°18	12°27	11° 9	6°29	n.a.		
S27	5 10 59	19°36'51	3♁18	23°50	17°55	29°32	23°48	7°54	29°20	28° 3	22°16	12°28	11° 6	6°36	n.a.		
S28	5 14 55	20°37'33	16° 5	24°52	19° 9	0♋15	24° 2	8° 0	29°17	28° 3	22°15	12°R28	11° 3	6°43	n.a.		
M29	5 18 52	21°38'12	29°15	25°56	20°23	0°58	24°16	8° 6	29°15	28° 4	22°14	12°27	11° 0	6°49	n.a.		
T30	5 22 48	22°38'50	12♋47	27° 3	21°37	1°41	24°31	8°11	29°12	28° 4	22°12	12°24	10°56	6°56	n.a.		
W31	5 26 45	23♌39'25	26♋40	28♋11	22♁50	2♋25	24♌45	8♋17	29♁10	28♎ 5	22♁11	12♋19	10♋53	7♃ 3	n.a.		

Delta T = 13h22m02s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [6.2.2007]