

SWISS EPHEMERIS for the year 149

JANUARY 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
T 1	6 37 37	10 ²⁶ 37'37	22 ³⁵ 35	16 ⁷ 7	28 ⁵⁶ 56	14 ²⁴ 24	14 ¹⁰ 10	25 ^{R14} 14	11 ⁴⁵ 45	16 ¹² 12	3 ^{R12} 12	15 ³² 32	15 ⁵⁴ 54	3 ⁵⁴ 54	n.a.									
W 2	6 41 34	11 ²⁷ 36	6 ⁴⁶ 46	16 ⁴⁸ 48	0 ¹² 12	15 ¹² 12	14 ²⁰ 20	25 ^{II} 9	11 ⁴⁸ 48	16 ¹³ 13	3 ¹¹ 11	15 ³² 32	15 ⁵¹ 51	4 ¹ 1	n.a.									
T 3	6 45 30	12 ²⁸ 34	21 ⁰ 0	17 ³³ 33	1 ²⁷ 27	15 ⁵⁹ 59	14 ³⁰ 30	25 ⁵ 5	11 ⁵² 52	16 ¹³ 13	3 ¹¹ 11	15 ³³ 33	15 ⁴⁸ 48	4 ⁸ 8	n.a.									
F 4	6 49 27	13 ²⁹ 30	5 ¹⁴ 14	18 ²³ 23	2 ⁴² 42	16 ⁴⁶ 46	14 ⁴⁰ 40	25 ⁰ 0	11 ⁵⁵ 55	16 ¹⁴ 14	3 ¹¹ 11	15 ³³ 33	15 ⁴⁴ 44	4 ¹⁵ 15	n.a.									
S 5	6 53 23	14 ³⁰ 25	19 ²⁵ 25	19 ¹⁵ 15	3 ⁵⁷ 57	17 ³⁴ 34	14 ⁵¹ 51	24 ⁵⁶ 56	11 ⁵⁹ 59	16 ¹⁴ 14	3 ¹⁰ 10	15 ^{R33} 33	15 ⁴¹ 41	4 ²¹ 21	n.a.									
S 6	6 57 20	15 ³¹ 18	3 ³² 32	20 ¹¹ 11	5 ¹² 12	18 ²¹ 21	15 ¹ 1	24 ⁵¹ 51	12 ² 2	16 ¹⁵ 15	3 ¹⁰ 10	15 ^{D33} 33	15 ³⁸ 38	4 ²⁸ 28	n.a.									
M 7	7 1 16	16 ³² 10	17 ³¹ 31	21 ¹¹ 11	6 ²⁷ 27	19 ⁸ 8	15 ¹² 12	24 ⁴⁷ 47	12 ⁶ 6	16 ¹⁵ 15	3 ¹⁰ 10	15 ³³ 33	15 ³⁵ 35	4 ³⁵ 35	n.a.									
T 8	7 5 13	17 ³³ 00	1 ^{II} 22	22 ¹² 12	7 ⁴³ 43	19 ⁵⁶ 56	15 ²² 22	24 ⁴² 42	12 ⁹ 9	16 ¹⁵ 15	3 ¹⁰ 10	15 ³³ 33	15 ³² 32	4 ⁴¹ 41	n.a.									
W 9	7 9 9	18 ³³ 48	15 ³ 3	23 ¹⁷ 17	8 ⁵⁸ 58	20 ⁴³ 43	15 ³³ 33	24 ³⁸ 38	12 ¹³ 13	16 ¹⁶ 16	3 ⁹ 9	15 ³³ 33	15 ²⁹ 29	4 ⁴⁸ 48	n.a.									
T 10	7 13 6	19 ³⁴ 36	28 ³² 32	24 ²³ 23	10 ¹³ 13	21 ³¹ 31	15 ⁴⁴ 44	24 ³⁴ 34	12 ¹⁶ 16	16 ¹⁶ 16	3 ⁹ 9	15 ³⁴ 34	15 ²⁵ 25	4 ⁵⁵ 55	n.a.									
F 11	7 17 3	20 ³⁵ 21	11 ³⁴ 34	25 ³² 32	11 ²⁸ 28	22 ¹⁸ 18	15 ⁵⁵ 55	24 ²⁹ 29	12 ²⁰ 20	16 ¹⁶ 16	3 ⁹ 9	15 ^{R34} 34	15 ²² 22	5 ² 2	n.a.									
S 12	7 20 59	21 ³⁶ 06	24 ⁴⁸ 48	26 ⁴³ 43	12 ⁴³ 43	23 ⁵ 5	16 ⁶ 6	24 ²⁵ 25	12 ²³ 23	16 ¹⁷ 17	3 ⁹ 9	15 ³⁴ 34	15 ¹⁹ 19	5 ⁸ 8	n.a.									
S 13	7 24 56	22 ³⁶ 48	7 ^Ω 34	27 ⁵⁵ 55	13 ⁵⁸ 58	23 ⁵³ 53	16 ¹⁷ 17	24 ²¹ 21	12 ²⁷ 27	16 ¹⁷ 17	3 ⁹ 9	15 ³³ 33	15 ¹⁶ 16	5 ¹⁵ 15	n.a.									
M 14	7 28 52	23 ³⁷ 30	20 ⁶ 6	29 ¹⁰ 10	15 ¹³ 13	24 ⁴⁰ 40	16 ²⁹ 29	24 ¹⁷ 17	12 ³⁰ 30	16 ¹⁷ 17	3 ⁹ 9	15 ³² 32	15 ¹³ 13	5 ²² 22	n.a.									
T 15	7 32 49	24 ³⁸ 10	2 ^{II} 25	0 ²⁶ 26	16 ²⁸ 28	25 ²⁸ 28	16 ⁴⁰ 40	24 ¹³ 13	12 ³⁴ 34	16 ¹⁷ 17	3 ⁹ 9	15 ³¹ 31	15 ¹⁰ 10	5 ²⁸ 28	n.a.									
W 16	7 36 45	25 ³⁸ 48	14 ³² 32	1 ⁴³ 43	17 ⁴³ 43	26 ¹⁵ 15	16 ⁵² 52	24 ⁹ 9	12 ³⁷ 37	16 ¹⁷ 17	3 ⁹ 9	15 ³⁰ 30	15 ⁶ 6	5 ³⁵ 35	n.a.									
T 17	7 40 42	26 ³⁹ 25	26 ³⁰ 30	3 ² 2	18 ⁵⁸ 58	27 ² 2	17 ³ 3	24 ⁶ 6	12 ⁴¹ 41	16 ¹⁷ 17	3 ^{D9} 9	15 ²⁸ 28	15 ³ 3	5 ⁴² 42	n.a.									
F 18	7 44 38	27 ⁴⁰ 01	8 ²⁴ 24	4 ²² 22	20 ¹³ 13	27 ⁵⁰ 50	17 ¹⁵ 15	24 ² 2	12 ⁴⁴ 44	16 ^{R17} 17	3 ⁹ 9	15 ²⁷ 27	15 ⁰ 0	5 ⁴⁹ 49	n.a.									
S 19	7 48 35	28 ⁴⁰ 36	20 ¹⁶ 16	5 ⁴³ 43	21 ²⁸ 28	28 ³⁷ 37	17 ²⁶ 26	23 ⁵⁸ 58	12 ⁴⁸ 48	16 ¹⁷ 17	3 ⁹ 9	15 ²⁶ 26	14 ⁵⁷ 57	5 ⁵⁵ 55	n.a.									
S 20	7 52 32	29 ⁴¹ 09	2 ^{III} 12	7 ⁶ 6	22 ⁴³ 43	29 ²⁴ 24	17 ³⁸ 38	23 ⁵⁵ 55	12 ⁵¹ 51	16 ¹⁷ 17	3 ⁹ 9	15 ^{D26} 26	14 ⁵⁴ 54	6 ² 2	n.a.									
M 21	7 56 28	0 ⁴¹ 14	14 ¹⁷ 17	8 ³⁰ 30	23 ⁵⁹ 59	0 ¹² 12	17 ⁵⁰ 50	23 ⁵¹ 51	12 ⁵⁴ 54	16 ¹⁷ 17	3 ⁹ 9	15 ²⁷ 27	14 ⁵⁰ 50	6 ⁹ 9	n.a.									
T 22	8 0 25	1 ⁴² 11	26 ³⁴ 34	9 ⁵⁵ 55	25 ¹⁴ 14	0 ⁵⁹ 59	18 ² 2	23 ⁴⁸ 48	12 ⁵⁸ 58	16 ¹⁷ 17	3 ⁹ 9	15 ²⁸ 28	14 ⁴⁷ 47	6 ¹⁶ 16	n.a.									
W 23	8 4 21	2 ⁴² 40	9 ⁷ 9	11 ²¹ 21	26 ²⁹ 29	1 ⁴⁷ 47	18 ¹⁴ 14	23 ⁴⁵ 45	13 ¹ 1	16 ¹⁷ 17	3 ⁹ 9	15 ²⁹ 29	14 ⁴⁴ 44	6 ²² 22	n.a.									
T 24	8 8 18	3 ⁴³ 08	22 ⁴ 4	12 ⁴⁹ 49	27 ⁴⁴ 44	2 ³⁴ 34	18 ²⁷ 27	23 ⁴¹ 41	13 ⁵ 5	16 ¹⁶ 16	3 ⁹ 9	15 ³⁰ 30	14 ⁴¹ 41	6 ²⁹ 29	n.a.									
F 25	8 12 14	4 ⁴³ 34	5 ²³ 23	14 ¹⁷ 17	28 ⁵⁹ 59	3 ²¹ 21	18 ³⁹ 39	23 ³⁸ 38	13 ⁸ 8	16 ¹⁶ 16	3 ⁹ 9	15 ³² 32	14 ³⁸ 38	6 ³⁶ 36	n.a.									
S 26	8 16 11	5 ⁴³ 59	19 ⁵ 5	15 ⁴⁷ 47	0 ¹³ 13	4 ⁹ 9	18 ⁵¹ 51	23 ³⁵ 35	13 ¹¹ 11	16 ¹⁶ 16	3 ⁹ 9	15 ^{R32} 32	14 ³⁵ 35	6 ⁴² 42	n.a.									
S 27	8 20 7	6 ⁴⁴ 21	3 ³³ 33	9 ¹⁷ 17	1 ²⁸ 28	4 ⁵⁶ 56	19 ⁴ 4	23 ³² 32	13 ¹⁵ 15	16 ¹⁶ 16	3 ¹⁰ 10	15 ³¹ 31	14 ³¹ 31	6 ⁴⁹ 49	n.a.									
M 28	8 24 4	7 ⁴⁴ 42	17 ³¹ 31	18 ⁴⁹ 49	2 ⁴³ 43	5 ⁴³ 43	19 ¹⁶ 16	23 ²⁹ 29	13 ¹⁸ 18	16 ¹⁵ 15	3 ¹⁰ 10	15 ²⁹ 29	14 ²⁸ 28	6 ⁵⁶ 56	n.a.									
T 29	8 28 1	8 ⁴⁵ 01	2 ⁴ 5	20 ²¹ 21	3 ⁵⁸ 58	6 ³¹ 31	19 ²⁹ 29	23 ²⁷ 27	13 ²¹ 21	16 ¹⁵ 15	3 ¹⁰ 10	15 ²⁶ 26	14 ²⁵ 25	7 ³ 3	n.a.									
W 30	8 31 57	9 ⁴⁵ 18	16 ⁴⁶ 46	21 ⁵⁵ 55	5 ¹³ 13	7 ¹⁸ 18	19 ⁴¹ 41	23 ²⁴ 24	13 ²⁴ 24	16 ¹⁵ 15	3 ¹⁰ 10	15 ²³ 23	14 ²² 22	7 ⁹ 9	n.a.									
T 31	8 35 54	10 ⁴⁵ 33	1 ¹ 26	23 ²⁹ 29	6 ²⁸ 28	8 ³⁵ 35	19 ⁵⁴ 54	23 ^{II} 22	13 ²⁸ 28	16 ¹⁴ 14	3 ¹¹ 11	15 ²¹ 21	14 ²¹ 21	7 ¹⁶ 16	n.a.									

Delta T = 9031.76 sec.

Julian Calendar 1 Jan. 149 == Greg. Calendar 31 Dec. 148

FEBRUARY 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
F 1	8 39 50	11 ⁴⁵ 46	15 ¹ 58	25 ³ 5	7 ⁴³ 43	8 ⁵² 52	20 ⁷ 7	23 ^{R19} 19	13 ³¹ 31	16 ^{R14} 14	3 ¹¹ 11	15 ^{R16} 16	14 ³¹ 31	7 ²³ 23	n.a.									
S 2	8 43 47	12 ⁴⁵ 56	0 ¹⁹ 19	26 ⁴² 42	8 ⁵⁸ 58	9 ⁴⁰ 40	20 ²⁰ 20	23 ^{II} 17	13 ³⁴ 34	16 ¹³ 13	3 ¹¹ 11	15 ¹⁴ 14	14 ¹² 12	7 ²⁹ 29	n.a.									
S 3	8 47 43	13 ⁴⁶ 05	14 ²⁴ 24	28 ²⁰ 20	10 ¹³ 13	10 ²⁷ 27	20 ³³ 33	23 ¹⁴ 14	13 ³⁷ 37	16 ¹³ 13	3 ¹² 12	15 ^{D14} 14	14 ⁹ 9	7 ³⁶ 36	n.a.									
M 4	8 51 40	14 ⁴⁶ 11	28 ¹⁴ 14	29 ⁵⁸ 58	11 ²⁸ 28	11 ¹⁴ 14	20 ⁴⁵ 45	23 ¹² 12	13 ⁴⁰ 40	16 ¹² 12	3 ¹² 12	15 ¹⁵ 15	14 ⁶ 6	7 ⁴³ 43	n.a.									
T 5	8 55 36	15 ⁴⁶ 15	11 ^{II} 47	1 ³⁸ 38	12 ⁴² 42	12 ¹ 1	20 ⁵⁹ 59	23 ¹⁰ 10	13 ⁴³ 43	16 ¹² 12	3 ¹² 12	15 ¹⁶ 16	14 ³ 3	7 ⁵⁰ 50	n.a.									
W 6	8 59 33	16 ⁴⁶ 17	25 ⁵ 5	3 ¹⁹ 19	13 ⁵⁷ 57	12 ⁴⁸ 48	21 ¹² 12	23 ⁸ 8	13 ⁴⁷ 47	16 ¹¹ 11	3 ¹³ 13	15 ¹⁸ 18	14 ⁰ 0	7 ⁵⁶ 56	n.a.									
T 7	9 3 30	17 ⁴⁶ 16	8 ⁹ 9	5 ¹ 1	15 ¹² 12	13 ³⁵ 35	21 ²⁵ 25	23 ⁶ 6	13 ⁵⁰ 50	16 ¹⁰ 10	3 ¹³ 13	15 ¹⁹ 19	13 ⁵⁶ 56	8 ³ 3	n.a.									
F 8	9 7 26	18 ⁴⁶ 14	21 ⁰ 0	6 ⁴⁴ 44	16 ²⁷ 27	14 ²³ 23	21 ³⁸ 38	23 ⁵ 5	13 ⁵³ 53	16 ¹⁰ 10	3 ¹⁴ 14	15 ^{R19} 19	13 ⁵³ 53	8 ¹⁰ 10	n.a.									
S 9	9 11 23	19 ⁴⁶ 09	3 ^Ω 40	8 ²⁸ 28	17 ⁴² 42	15 ¹⁰ 10	21 ⁵¹ 51	23 ³ 3	13 ⁵⁶ 56	16 ⁹ 9	3 ¹⁴ 14	15 ¹⁷ 17	13 ⁵⁰ 50	8 ¹⁷ 17	n.a.									
S 10	9 15 19	20 ⁴⁶ 02	16 ⁹ 9	10 ¹⁴ 14	18 ⁵⁶ 56	15 ⁵⁷ 57	22 ⁵ 5	23 ² 2	13 ⁵⁹ 59	16 ⁸ 8	3 ¹⁵ 15	15 ¹⁴ 14	13 ⁴⁷ 47	8 ²³ 23	n.a.									
M 11	9 19 16	21 ⁴⁵ 53	28 ²⁸ 28	12 ⁰ 0	20 ¹¹ 11	1																		

SWISS EPHEMERIS for the year 149

MARCH 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
F 1	10 30 14	9 ^h 37'43	25 ^h 49'	16 ^h 57'	12 ^h 34'	0 ^h 46'	26 ^h 26'	22 ^h 53'	14 ^h 50'	15 ^h 49'	3 ^h 28'	13 ^h R53	12 ^h 47'	10 ^h 31'	n.a.
S 2	10 34 10	10 ^h 36'56	10 ^h 28'	18 ^h 59'	13 ^h 48'	1 ^h 33'	26 ^h 40'	22 ^h 54'	14 ^h 52'	15 ^h 48'	3 ^h 29'	13 ^h 48'	12 ^h 43'	10 ^h 38'	n.a.
S 3	10 38 7	11 ^h 36'07	24 ^h 43'	21 ^h 0'	15 ^h 3'	2 ^h 19'	26 ^h 54'	22 ^h 55'	14 ^h 54'	15 ^h 47'	3 ^h 30'	13 ^h 44'	12 ^h 40'	10 ^h 44'	n.a.
M 4	10 42 3	12 ^h 35'15	8 ^h 35'	23 ^h 0'	16 ^h 17'	3 ^h 6'	27 ^h 8'	22 ^h 56'	14 ^h 57'	15 ^h 45'	3 ^h 30'	13 ^h D43	12 ^h 37'	10 ^h 51'	n.a.
T 5	10 46 0	13 ^h 34'22	22 ^h 4'	24 ^h 58'	17 ^h 32'	3 ^h 52'	27 ^h 22'	22 ^h 57'	14 ^h 59'	15 ^h 44'	3 ^h 31'	13 ^h 43'	12 ^h 34'	10 ^h 58'	n.a.
W 6	10 49 57	14 ^h 33'25	5 ^h 21'	26 ^h 55'	18 ^h 46'	4 ^h 38'	27 ^h 37'	22 ^h 58'	15 ^h 1'	15 ^h 43'	3 ^h 32'	13 ^h 44'	12 ^h 31'	11 ^h 5'	n.a.
T 7	10 53 53	15 ^h 32'27	18 ^h 1'	28 ^h 50'	20 ^h 0'	5 ^h 25'	27 ^h 51'	22 ^h 59'	15 ^h 3'	15 ^h 41'	3 ^h 33'	13 ^h R44	12 ^h 28'	11 ^h 11'	n.a.
F 8	10 57 50	16 ^h 31'26	0 ^h 36'	0 ^h 42'	21 ^h 15'	6 ^h 11'	28 ^h 5'	23 ^h 1'	15 ^h 5'	15 ^h 40'	3 ^h 34'	13 ^h 43'	12 ^h 24'	11 ^h 18'	n.a.
S 9	11 1 46	17 ^h 30'22	13 ^h 0'	2 ^h 31'	22 ^h 29'	6 ^h 57'	28 ^h 19'	23 ^h 2'	15 ^h 7'	15 ^h 39'	3 ^h 35'	13 ^h 39'	12 ^h 21'	11 ^h 25'	n.a.
S 10	11 5 43	18 ^h 29'16	25 ^h 14'	4 ^h 17'	23 ^h 43'	7 ^h 43'	28 ^h 34'	23 ^h 4'	15 ^h 10'	15 ^h 37'	3 ^h 36'	13 ^h 32'	12 ^h 18'	11 ^h 32'	n.a.
M11	11 9 39	19 ^h 28'08	7 ^h 21'	5 ^h 59'	24 ^h 57'	8 ^h 30'	28 ^h 48'	23 ^h 5'	15 ^h 12'	15 ^h 36'	3 ^h 37'	13 ^h 23'	12 ^h 15'	11 ^h 38'	n.a.
T 12	11 13 36	20 ^h 26'58	19 ^h 22'	7 ^h 37'	26 ^h 12'	9 ^h 16'	29 ^h 2'	23 ^h 7'	15 ^h 13'	15 ^h 35'	3 ^h 38'	13 ^h 12'	12 ^h 12'	11 ^h 45'	n.a.
W13	11 17 32	21 ^h 25'46	1 ^h 19'	9 ^h 12'	27 ^h 26'	10 ^h 2'	29 ^h 16'	23 ^h 9'	15 ^h 15'	15 ^h 33'	3 ^h 39'	12 ^h 59'	12 ^h 8'	11 ^h 52'	n.a.
T 14	11 21 29	22 ^h 24'32	13 ^h 13'	10 ^h 41'	28 ^h 40'	10 ^h 48'	29 ^h 31'	23 ^h 11'	15 ^h 17'	15 ^h 32'	3 ^h 40'	12 ^h 46'	12 ^h 5'	11 ^h 58'	n.a.
F 15	11 25 26	23 ^h 23'15	25 ^h 5'	12 ^h 6'	29 ^h 54'	11 ^h 34'	29 ^h 45'	23 ^h 13'	15 ^h 19'	15 ^h 30'	3 ^h 41'	12 ^h 34'	12 ^h 2'	12 ^h 5'	n.a.
S 16	11 29 22	24 ^h 21'57	6 ^h 58'	13 ^h 25'	1 ^h 8'	12 ^h 20'	29 ^h 59'	23 ^h 15'	15 ^h 21'	15 ^h 29'	3 ^h 42'	12 ^h 24'	11 ^h 59'	12 ^h 12'	n.a.
S 17	11 33 19	25 ^h 20'37	18 ^h 53'	14 ^h 40'	2 ^h 23'	13 ^h 6'	0 ^h 14'	23 ^h 17'	15 ^h 23'	15 ^h 27'	3 ^h 44'	12 ^h 16'	11 ^h 56'	12 ^h 19'	n.a.
M18	11 37 15	26 ^h 19'16	0 ^h 55'	15 ^h 49'	3 ^h 37'	13 ^h 52'	0 ^h 28'	23 ^h 20'	15 ^h 24'	15 ^h 26'	3 ^h 45'	12 ^h 11'	11 ^h 53'	12 ^h 25'	n.a.
T 19	11 41 12	27 ^h 17'52	13 ^h 8'	16 ^h 53'	4 ^h 51'	14 ^h 38'	0 ^h 42'	23 ^h 22'	15 ^h 26'	15 ^h 24'	3 ^h 46'	12 ^h 8'	11 ^h 49'	12 ^h 32'	n.a.
W20	11 45 8	28 ^h 16'27	25 ^h 35'	17 ^h 51'	6 ^h 5'	15 ^h 23'	0 ^h 57'	23 ^h 25'	15 ^h 27'	15 ^h 23'	3 ^h 47'	12 ^h D 7	11 ^h 46'	12 ^h 39'	n.a.
T 21	11 49 5	29 ^h 15'00	8 ^h 22'	18 ^h 43'	7 ^h 19'	16 ^h 9'	1 ^h 11'	23 ^h 28'	15 ^h 29'	15 ^h 21'	3 ^h 48'	12 ^h R 7	11 ^h 43'	12 ^h 46'	n.a.
F 22	11 53 1	0 ^h 13'31	21 ^h 33'	19 ^h 30'	8 ^h 33'	16 ^h 55'	1 ^h 25'	23 ^h 30'	15 ^h 30'	15 ^h 19'	3 ^h 49'	12 ^h 7'	11 ^h 40'	12 ^h 52'	n.a.
S 23	11 56 58	1 ^h 12'01	5 ^h 12'	20 ^h 10'	9 ^h 47'	17 ^h 40'	1 ^h 40'	23 ^h 33'	15 ^h 32'	15 ^h 18'	3 ^h 50'	12 ^h 5'	11 ^h 37'	12 ^h 59'	n.a.
S 24	12 0 55	2 ^h 10'29	19 ^h 21'	20 ^h 45'	11 ^h 1'	18 ^h 26'	1 ^h 54'	23 ^h 36'	15 ^h 33'	15 ^h 16'	3 ^h 52'	12 ^h 1'	11 ^h 33'	13 ^h 6'	n.a.
M25	12 4 51	3 ^h 8'55	3 ^h 57'	21 ^h 14'	12 ^h 15'	19 ^h 12'	2 ^h 8'	23 ^h 39'	15 ^h 35'	15 ^h 15'	3 ^h 53'	11 ^h 55'	11 ^h 30'	13 ^h 12'	n.a.
T 26	12 8 48	4 ^h 7'19	18 ^h 58'	21 ^h 37'	13 ^h 29'	19 ^h 57'	2 ^h 23'	23 ^h 43'	15 ^h 36'	15 ^h 13'	3 ^h 54'	11 ^h 46'	11 ^h 27'	13 ^h 19'	n.a.
W27	12 12 44	5 ^h 5'42	4 ^h 13'	21 ^h 54'	14 ^h 43'	20 ^h 43'	2 ^h 37'	23 ^h 46'	15 ^h 37'	15 ^h 12'	3 ^h 55'	11 ^h 35'	11 ^h 24'	13 ^h 26'	n.a.
T 28	12 16 41	6 ^h 4'02	19 ^h 32'	22 ^h 5'	15 ^h 57'	21 ^h 28'	2 ^h 51'	23 ^h 49'	15 ^h 39'	15 ^h 10'	3 ^h 56'	11 ^h 24'	11 ^h 21'	13 ^h 33'	n.a.
F 29	12 20 37	7 ^h 2'21	4 ^h 44'	22 ^h R10	17 ^h 11'	22 ^h 14'	3 ^h 6'	23 ^h 53'	15 ^h 40'	15 ^h 8'	3 ^h 58'	11 ^h 14'	11 ^h 18'	13 ^h 39'	n.a.
S 30	12 24 34	8 ^h 0'38	19 ^h 38'	22 ^h 10'	18 ^h 25'	22 ^h 59'	3 ^h 20'	23 ^h 56'	15 ^h 41'	15 ^h 7'	3 ^h 59'	11 ^h 6'	11 ^h 14'	13 ^h 46'	n.a.
S 31	12 28 30	8 ^h 58'52	4 ^h 11'	22 ^h 4'	19 ^h 39'	23 ^h 44'	3 ^h 34'	24 ^h 11'	15 ^h 42'	15 ^h 5'	4 ^h 0'	11 ^h 11'	11 ^h 11'	13 ^h 53'	n.a.

Delta T = 9030.16 sec.

Julian Calendar 1 March 149 == Greg. Calendar 28 Feb. 149

APRIL 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
M 1	12 32 27	9 ^h 57'05	18 ^h 11'	21 ^h R53	20 ^h 53'	24 ^h 29'	3 ^h 49'	24 ^h 11'	15 ^h 43'	15 ^h R 3	4 ^h 1'	10 ^h R58	11 ^h 8'	13 ^h 59'	n.a.
T 2	12 36 23	10 ^h 55'15	1 ^h 43'	21 ^h 37'	22 ^h 6'	25 ^h 15'	4 ^h 3'	24 ^h 8'	15 ^h 44'	15 ^h 2'	4 ^h 3'	10 ^h 57'	11 ^h 5'	14 ^h 6'	n.a.
W 3	12 40 20	11 ^h 53'24	14 ^h 51'	21 ^h 16'	23 ^h 20'	26 ^h 0'	4 ^h 17'	24 ^h 12'	15 ^h 45'	15 ^h 0'	4 ^h 4'	10 ^h 57'	11 ^h 2'	14 ^h 13'	n.a.
T 4	12 44 17	12 ^h 51'30	27 ^h 37'	20 ^h 52'	24 ^h 34'	26 ^h 45'	4 ^h 32'	24 ^h 16'	15 ^h 46'	14 ^h 59'	4 ^h 5'	10 ^h 56'	10 ^h 59'	14 ^h 20'	n.a.
F 5	12 48 13	13 ^h 49'34	10 ^h 6'	20 ^h 24'	25 ^h 48'	27 ^h 30'	4 ^h 46'	24 ^h 20'	15 ^h 47'	14 ^h 57'	4 ^h 6'	10 ^h 54'	10 ^h 55'	14 ^h 26'	n.a.
S 6	12 52 10	14 ^h 47'36	22 ^h 20'	19 ^h 52'	27 ^h 2'	28 ^h 15'	5 ^h 0'	24 ^h 24'	15 ^h 47'	14 ^h 55'	4 ^h 8'	10 ^h 50'	10 ^h 52'	14 ^h 33'	n.a.
S 7	12 56 6	15 ^h 45'36	4 ^h 26'	19 ^h 19'	28 ^h 15'	29 ^h 0'	5 ^h 14'	24 ^h 28'	15 ^h 48'	14 ^h 54'	4 ^h 9'	10 ^h 43'	10 ^h 49'	14 ^h 40'	n.a.
M 8	13 0 3	16 ^h 43'35	16 ^h 25'	18 ^h 43'	29 ^h 29'	29 ^h 45'	5 ^h 28'	24 ^h 33'	15 ^h 49'	14 ^h 52'	4 ^h 10'	10 ^h 33'	10 ^h 46'	14 ^h 47'	n.a.
T 9	13 3 59	17 ^h 41'31	28 ^h 20'	18 ^h 6'	0 ^h 43'	0 ^h 30'	5 ^h 43'	24 ^h 37'	15 ^h 49'	14 ^h 50'	4 ^h 12'	10 ^h 21'	10 ^h 43'	14 ^h 53'	n.a.
W10	13 7 56	18 ^h 39'26	10 ^h 13'	17 ^h 29'	1 ^h 56'	1 ^h 14'	5 ^h 57'	24 ^h 42'	15 ^h 50'	14 ^h 49'	4 ^h 13'	10 ^h 8'	10 ^h 39'	15 ^h 0'	n.a.
T 11	13 11 52	19 ^h 37'19	22 ^h 5'	16 ^h 51'	3 ^h 10'	1 ^h 59'	6 ^h 11'	24 ^h 46'	15 ^h 51'	14 ^h 47'	4 ^h 14'	9 ^h 54'	10 ^h 36'	15 ^h 7'	n.a.
F 12	13 15 49	20 ^h 35'10	3 ^h 15'	16 ^h 15'	4 ^h 24'	2 ^h 44'	6 ^h 25'	24 ^h 51'	15 ^h 51'	14 ^h 46'	4 ^h 15'	9 ^h 41'	10 ^h 33'	15 ^h 13'	n.a.
S 13	13 19 46	21 ^h 33'00	15 ^h 55'	15 ^h 40'	5 ^h 37'	3 ^h 28'	6 ^h 39'	24 ^h 56'	15 ^h 51'	14 ^h 44'	4 ^h 17'	9 ^h 29'	10 ^h 30'	15 ^h 20'	n.a.
S 14	13 23 42	22 ^h 30'49	27 ^h 55'	15 ^h 7'	6 ^h 51'	4 ^h 13'	6 ^h 53'	25 ^h 1'	15 ^h 52'	14 ^h 42'	4 ^h 18'	9 ^h 21'	10 ^h 27'	15 ^h 27'	n.a.
M15	13 27 39	23 ^h 28'36	10 ^h 2'	14 ^h 36'	8 ^h 4'	4 ^h 58'	7 ^h 7'	25 ^h 6'	15 ^h 52'	14 ^h 41'	4 ^h 19'	9 ^h 15'	10 ^h 24'	15 ^h 34'	n.a.
T 16	13 31 35	24 ^h 26'22	22 ^h 19'	14 ^h 8'	9 ^h 18'	5 ^h 42'	7 ^h 21'	25 ^h 11'	15 ^h 52'	14 ^h 39'	4 ^h 21'	9 ^h 11'	10 ^h 20'	15 ^h 40'	n.a.
W17	13 35 32	25 ^h 24'06	4 ^h 48'	13 ^h 44'	10 ^h 31'	6 ^h 26'	7 ^h 35'	25 ^h 16'	15 ^h 53'	14 ^h 38'	4 ^h 22'	9 ^h D10	10 ^h 17'	15 ^h 47'	n.a.
T 18	13 39 28	26 ^h 21'50	17 ^h 34'	13 ^h 24'	11 ^h 45'	7 ^h 11'	7 ^h 49'	25 ^h 21'	15 ^h 53'	14 ^h 36'	4 ^h 23'	9 ^h 10'	10 ^h 14'	1	

SWISS EPHEMERIS for the year 149

MAY 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
W 1	14 30 44	8♃50'27	23♁48	15♃33	27♁39	16♃43	10♃47	26♁34	15♁51	14♁16	4♃41	8♃12	9♃33	17♁21	n.a.
T 2	14 34 40	9°47'53	6♁37	16°12	28°52	17°26	11° 1	26°40	15♁50	14♁15	4°42	8♁13	9°30	17°28	n.a.
F 3	14 38 37	10°45'17	19° 6	16°56	0♁ 5	18°10	11°14	26°46	15°50	14°13	4°44	8°12	9°26	17°35	n.a.
S 4	14 42 33	11°42'41	1♁20	17°43	1°18	18°54	11°27	26°53	15°49	14°12	4°45	8°10	9°23	17°41	n.a.
S 5	14 46 30	12°40'03	13°23	18°35	2°31	19°37	11°41	26°59	15°49	14°10	4°47	8° 6	9°20	17°48	n.a.
M 6	14 50 26	13°37'24	25°18	19°29	3°45	20°20	11°54	27° 5	15°48	14° 9	4°48	8° 0	9°17	17°55	n.a.
T 7	14 54 23	14°34'43	7♁11	20°27	4°58	21° 4	12° 7	27°12	15°47	14° 8	4°49	7°51	9°14	18° 2	n.a.
W 8	14 58 19	15°32'02	19° 3	21°29	6°11	21°47	12°20	27°18	15°46	14° 6	4°51	7°42	9°10	18° 8	n.a.
T 9	15 2 16	16°29'20	0♁57	22°33	7°24	22°30	12°33	27°25	15°46	14° 5	4°52	7°32	9° 7	18°15	n.a.
F 10	15 6 13	17°26'36	12°55	23°41	8°37	23°13	12°46	27°31	15°45	14° 4	4°53	7°23	9° 4	18°22	n.a.
S 11	15 10 9	18°23'52	24°57	24°53	9°50	23°56	12°59	27°38	15°44	14° 2	4°55	7°15	9° 1	18°28	n.a.
S 12	15 14 6	19°21'08	7♁ 7	26° 7	11° 3	24°39	13°12	27°44	15°43	14° 1	4°56	7° 9	8°58	18°35	n.a.
M13	15 18 2	20°18'22	19°25	27°24	12°16	25°22	13°25	27°51	15°42	14° 0	4°57	7° 6	8°55	18°42	n.a.
T 14	15 21 59	21°15'36	1♃52	28°45	13°29	26° 5	13°37	27°58	15°41	13°59	4°59	7°D 4	8°51	18°49	n.a.
W15	15 25 55	22°12'50	14°32	0♃ 8	14°42	26°48	13°50	28° 5	15°40	13°57	5° 0	7° 4	8°48	18°55	n.a.
T 16	15 29 52	23°10'03	27°26	1°34	15°54	27°31	14° 3	28°11	15°39	13°56	5° 1	7° 5	8°45	19° 2	n.a.
F 17	15 33 48	24° 7'16	10♁38	3° 4	17° 7	28°14	14°15	28°18	15°38	13°55	5° 2	7° 7	8°42	19° 9	n.a.
S 18	15 37 45	25° 4'28	24°10	4°36	18°20	28°56	14°28	28°25	15°36	13°54	5° 4	7°R 7	8°39	19°15	n.a.
S 19	15 41 42	26° 1'40	8♁ 3	6°11	19°33	29°39	14°40	28°32	15°35	13°53	5° 5	7° 7	8°36	19°22	n.a.
M20	15 45 38	26°58'52	22°17	7°49	20°46	0♃22	14°53	28°39	15°34	13°52	5° 6	7° 5	8°32	19°29	n.a.
T 21	15 49 35	27°56'03	6♃51	9°30	21°59	1° 4	15° 5	28°46	15°32	13°51	5° 8	7° 1	8°29	19°36	n.a.
W22	15 53 31	28°53'14	21°41	11°14	23°11	1°47	15°17	28°53	15°31	13°50	5° 9	6°56	8°26	19°42	n.a.
T 23	15 57 28	29°50'26	6♃38	13° 0	24°24	2°29	15°29	29° 0	15°30	13°49	5°10	6°50	8°23	19°49	n.a.
F 24	16 1 24	0♁47'36	21°36	14°49	25°37	3°11	15°41	29° 7	15°28	13°48	5°11	6°45	8°20	19°56	n.a.
S 25	16 5 21	1°44'47	6♁24	16°41	26°49	3°54	15°53	29°15	15°27	13°47	5°13	6°41	8°16	20° 3	n.a.
S 26	16 9 17	2°41'58	20°56	18°35	28° 2	4°36	16° 5	29°22	15°25	13°46	5°14	6°39	8°13	20° 9	n.a.
M27	16 13 14	3°39'07	5♁ 5	20°32	29°15	5°18	16°17	29°29	15°24	13°45	5°15	6°D38	8°10	20°16	n.a.
T 28	16 17 11	4°36'17	18°49	22°31	0♃27	6° 0	16°29	29°36	15°22	13°44	5°16	6°38	8° 7	20°23	n.a.
W29	16 21 7	5°33'26	2♁ 7	24°33	1°40	6°42	16°40	29°44	15°20	13°43	5°17	6°40	8° 4	20°29	n.a.
T 30	16 25 4	6°30'35	15° 0	26°36	2°52	7°24	16°52	29°51	15°19	13°42	5°19	6°41	8° 1	20°36	n.a.
F 31	16 29 0	7♁27'43	27♁33	28♁41	4♁ 5	8♃ 6	17♃ 3	29♁58	15♁17	13♁41	5♁20	6♁43	7♁57	20♁43	n.a.

Delta T = 9028.50 sec. Julian Calendar 1 May 149 == Greg. Calendar 30 Apr. 149

JUNE 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	16 32 57	8♁24'50	9♁49	0♁48	5♁18	8♃48	17♃15	0♁ 6	15°R15	13°R41	5♃21	6°R43	7♃54	20♁50	n.a.
S 2	16 36 53	9°21'57	21°53	2°56	6°30	9°30	17°26	0°13	15♁14	13♁40	5°22	6♁42	7°51	20°56	n.a.
M 3	16 40 50	10°19'04	3♁49	5° 5	7°42	10°12	17°37	0°21	15°12	13°39	5°23	6°40	7°48	21° 3	n.a.
T 4	16 44 46	11°16'11	15°42	7°14	8°55	10°53	17°48	0°28	15°10	13°38	5°24	6°37	7°45	21°10	n.a.
W 5	16 48 43	12°13'17	27°35	9°25	10° 7	11°35	17°59	0°36	15° 8	13°38	5°26	6°34	7°42	21°16	n.a.
T 6	16 52 40	13°10'23	9♁32	11°35	11°20	12°17	18°10	0°43	15° 6	13°37	5°27	6°30	7°38	21°23	n.a.
F 7	16 56 36	14° 7'30	21°35	13°45	12°32	12°58	18°21	0°51	15° 4	13°36	5°28	6°26	7°35	21°30	n.a.
S 8	17 0 33	15° 4'36	3♁47	15°55	13°44	13°39	18°32	0°58	15° 2	13°36	5°29	6°23	7°32	21°37	n.a.
S 9	17 4 29	16° 1'42	16° 9	18° 4	14°56	14°21	18°43	1° 6	15° 0	13°35	5°30	6°21	7°29	21°43	n.a.
M10	17 8 26	16°58'49	28°42	20°13	16° 9	15° 2	18°53	1°14	14°58	13°35	5°31	6°20	7°26	21°50	n.a.
T 11	17 12 22	17°55'56	11♁27	22°20	17°21	15°44	19° 4	1°21	14°56	13°34	5°32	6°D20	7°22	21°57	n.a.
W12	17 16 19	18°53'03	24°25	24°27	18°33	16°25	19°14	1°29	14°54	13°34	5°33	6°21	7°19	22° 4	n.a.
T 13	17 20 15	19°50'11	7♁37	26°31	19°45	17° 6	19°24	1°36	14°52	13°33	5°34	6°22	7°16	22°10	n.a.
F 14	17 24 12	20°47'19	21° 3	28°35	20°57	17°47	19°34	1°44	14°50	13°33	5°35	6°23	7°13	22°17	n.a.
S 15	17 28 9	21°44'27	4♁43	0♃37	22° 9	18°28	19°44	1°52	14°48	13°33	5°36	6°24	7°10	22°24	n.a.
S 16	17 32 5	22°41'37	18°38	2°37	23°21	19° 9	19°54	2° 0	14°46	13°32	5°37	6°R25	7° 7	22°30	n.a.
M17	17 36 2	23°38'46	2♃46	4°36	24°33	19°50	20° 4	2° 7	14°44	13°32	5°38	6°24	7° 3	22°37	n.a.
T 18	17 39 58	24°35'57	17° 6	6°33	25°45	20°31	20°14	2°15	14°41	13°32	5°39	6°24	7° 0	22°44	n.a.
W19	17 43 55	25°33'09	1♃35	8°28	26°57	21°12	20°23	2°23	14°39	13°31	5°40	6°23	6°57	22°51	n.a.
T 20	17 47 51	26°30'21	16° 8	10°21	28° 9	21°52	20°33	2°30	14°37	13°31	5°41	6°22	6°54	22°57	n.a.
F 21	17 51 48	27°27'34	0♁40	12°12	29°21	22°33	20°42	2°38	14°35	13°31	5°42	6°21	6°51	23° 4	n.a.
S 22	17 55 44	28°24'48	15° 6	14° 2	0♁32	23°14	20°51	2°46	14°32	13°31	5°43	6°20	6°48	23°11	n.a.
S 23	17 59 41	29°22'02	29°19	15°50	1°44	23°54	21° 0	2°54	14°30	13°31	5°44	6°D19	6°44	23°17	n.a.
M24	18 3 38	0♁19'17	13♁16	17°36	2°56	24°35	21° 9	3° 1	14°28	13°31	5°45	6°19	6°41	23°24	n.a.
T 25	18 7 34	1°16'33	26°52	19°21	4° 8	25°15	21°18	3° 9	14°25	13°30	5°45	6°20	6°38	23°31	n.a.
W26	18 11 31	2°13'49	10♁ 7	21° 3	5°19	25°56	21°27	3°17	14°23	13°D30	5°46	6°20	6°35	23°38	n.a.
T 27	18 15 27	3°11'06	23° 1	22°44	6°31	26°36	21°36	3°25	14°21	13°30	5°47	6°20	6°32	23°44	n.a.
F 28	18 19 24	4° 8'23	5♁36	24°23	7°42	27°16	21°44	3°33	14°18	13°31	5°48	6°21	6°28	23°51	n.a.
S 29	18 23 20	5° 5'41	17°54	26° 0	8°54	27°56	21°52	3°40	14°16	13°31	5°49	6°21	6°25	23°58	n.a.
S 30	18 27 17	6♁ 2'59	29♁59	27♁35	10♁ 5	28♁37	22♃ 1	3♁48	14♁14	13♁31	5♁49	6♁21	6♁22	24♁ 4	n.a.

Delta T = 9027.66 sec. Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 149

JULY 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	18 31 13	7 ^h 01'18"	11 ^h 56'	29 ^h 09'	11 ^h 017'	29 ^h 17'	22 ^h 9'	3 ^h 56'	14 ^h R11	13 ^h 31'	5 ^h 50'	6 ^h 21'	6 ^h 16'	24 ^h 11'	n.a.
T 2	18 35 10	7 ^h 57'38"	23 ^h 50'	0 ^h 041'	12 ^h 28'	29 ^h 57'	22 ^h 17'	4 ^h 4'	14 ^h 8' 9"	13 ^h 31'	5 ^h 51'	6 ^h 21'	6 ^h 16'	24 ^h 18'	n.a.
W 3	18 39 7	8 ^h 54'58"	5 ^h ML44	2 ^h 11'	13 ^h 39'	0 ^h II37'	22 ^h 24'	4 ^h 11'	14 ^h 7'	13 ^h 31'	5 ^h 52'	6 ^h 21'	6 ^h 13'	24 ^h 25'	n.a.
T 4	18 43 3	9 ^h 52'19"	17 ^h 43'	3 ^h 39'	14 ^h 51'	1 ^h 16'	22 ^h 32'	4 ^h 19'	14 ^h 4'	13 ^h 31'	5 ^h 52'	6 ^h 21'	6 ^h 9'	24 ^h 31'	n.a.
F 5	18 47 0	10 ^h 49'41"	29 ^h 50'	5 ^h 5'	16 ^h 2'	1 ^h 56'	22 ^h 39'	4 ^h 27'	14 ^h 2'	13 ^h 32'	5 ^h 53'	6 ^h 22'	6 ^h 6'	24 ^h 38'	n.a.
S 6	18 50 56	11 ^h 47'03"	12 ^h 7'10"	6 ^h 30'	17 ^h 13'	2 ^h 36'	22 ^h 47'	4 ^h 35'	13 ^h 59'	13 ^h 32'	5 ^h 54'	6 ^h 22'	6 ^h 3'	24 ^h 45'	n.a.
S 7	18 54 53	12 ^h 44'27"	24 ^h 44'	7 ^h 52'	18 ^h 24'	3 ^h 16'	22 ^h 54'	4 ^h 42'	13 ^h 57'	13 ^h 32'	5 ^h 54'	6 ^h 23'	6 ^h 0'	24 ^h 51'	n.a.
M 8	18 58 49	13 ^h 41'51"	7 ^h 334'	9 ^h 13'	19 ^h 35'	3 ^h 55'	23 ^h 1'	4 ^h 50'	13 ^h 55'	13 ^h 33'	5 ^h 55'	6 ^h R23	5 ^h 57'	24 ^h 58'	n.a.
T 9	19 2 46	14 ^h 39'17"	20 ^h 40'	10 ^h 31'	20 ^h 46'	4 ^h 35'	23 ^h 8'	4 ^h 58'	13 ^h 52'	13 ^h 33'	5 ^h 56'	6 ^h 23'	5 ^h 54'	25 ^h 5'	n.a.
W10	19 6 43	15 ^h 36'43"	4 ^h 3 3'	11 ^h 48'	21 ^h 57'	5 ^h 14'	23 ^h 15'	5 ^h 5'	13 ^h 50'	13 ^h 33'	5 ^h 56'	6 ^h 22'	5 ^h 50'	25 ^h 12'	n.a.
T 11	19 10 39	16 ^h 34'11"	17 ^h 39'	13 ^h 3'	23 ^h 8'	5 ^h 54'	23 ^h 21'	5 ^h 13'	13 ^h 47'	13 ^h 34'	5 ^h 57'	6 ^h 21'	5 ^h 47'	25 ^h 18'	n.a.
F 12	19 14 36	17 ^h 31'40"	1 ^h X28'	14 ^h 15'	24 ^h 19'	6 ^h 33'	23 ^h 28'	5 ^h 21'	13 ^h 45'	13 ^h 34'	5 ^h 57'	6 ^h 20'	5 ^h 44'	25 ^h 25'	n.a.
S 13	19 18 32	18 ^h 29'11"	15 ^h 27'	15 ^h 25'	25 ^h 30'	7 ^h 13'	23 ^h 34'	5 ^h 28'	13 ^h 43'	13 ^h 35'	5 ^h 58'	6 ^h 18'	5 ^h 41'	25 ^h 32'	n.a.
S 14	19 22 29	19 ^h 26'43"	29 ^h 34'	16 ^h 33'	26 ^h 40'	7 ^h 52'	23 ^h 40'	5 ^h 36'	13 ^h 40'	13 ^h 35'	5 ^h 58'	6 ^h 17'	5 ^h 38'	25 ^h 38'	n.a.
M15	19 26 25	20 ^h 24'17"	13 ^h Y46'	17 ^h 39'	27 ^h 51'	8 ^h 31'	23 ^h 46'	5 ^h 44'	13 ^h 38'	13 ^h 36'	5 ^h 59'	6 ^h 17'	5 ^h 34'	25 ^h 45'	n.a.
T 16	19 30 22	21 ^h 21'52"	27 ^h 59'	18 ^h 42'	29 ^h 2'	9 ^h 10'	23 ^h 52'	5 ^h 51'	13 ^h 35'	13 ^h 37'	5 ^h 59'	6 ^h D17	5 ^h 31'	25 ^h 52'	n.a.
W17	19 34 18	22 ^h 19'29"	12 ^h B13'	19 ^h 42'	0 ^h II12'	9 ^h 49'	23 ^h 58'	5 ^h 59'	13 ^h 33'	13 ^h 37'	6 ^h 0'	6 ^h 17'	5 ^h 28'	25 ^h 59'	n.a.
T 18	19 38 15	23 ^h 17'07"	26 ^h 24'	20 ^h 40'	1 ^h 23'	10 ^h 28'	24 ^h 3'	6 ^h 6'	13 ^h 31'	13 ^h 38'	6 ^h 0'	6 ^h 18'	5 ^h 25'	26 ^h 5'	n.a.
F 19	19 42 12	24 ^h 14'48"	10 ^h II29'	21 ^h 35'	2 ^h 33'	11 ^h 7'	24 ^h 8'	6 ^h 14'	13 ^h 28'	13 ^h 39'	6 ^h 1'	6 ^h 19'	5 ^h 22'	26 ^h 12'	n.a.
S 20	19 46 8	25 ^h 12'29"	24 ^h 28'	22 ^h 27'	3 ^h 43'	11 ^h 46'	24 ^h 14'	6 ^h 21'	13 ^h 26'	13 ^h 39'	6 ^h 1'	6 ^h 20'	5 ^h 19'	26 ^h 19'	n.a.
S 21	19 50 5	26 ^h 10'13"	8 ^h 215'	23 ^h 16'	4 ^h 54'	12 ^h 25'	24 ^h 19'	6 ^h 29'	13 ^h 24'	13 ^h 40'	6 ^h 1'	6 ^h R21	5 ^h 15'	26 ^h 26'	n.a.
M22	19 54 1	27 ^h 7'58"	21 ^h 51'	24 ^h 1'	6 ^h 4'	13 ^h 4'	24 ^h 23'	6 ^h 36'	13 ^h 21'	13 ^h 41'	6 ^h 2'	6 ^h 20'	5 ^h 12'	26 ^h 32'	n.a.
T 23	19 57 58	28 ^h 5'44"	5 ^h 011'	24 ^h 43'	7 ^h 14'	13 ^h 42'	24 ^h 28'	6 ^h 44'	13 ^h 19'	13 ^h 42'	6 ^h 2'	6 ^h 18'	5 ^h 9'	26 ^h 39'	n.a.
W24	20 1 54	29 ^h 3'32"	18 ^h 15'	25 ^h 21'	8 ^h 24'	14 ^h 21'	24 ^h 32'	6 ^h 51'	13 ^h 17'	13 ^h 43'	6 ^h 2'	6 ^h 16'	5 ^h 6'	26 ^h 46'	n.a.
T 25	20 5 51	0 ^h 01'21"	1 ^h II 2'	25 ^h 56'	9 ^h 34'	14 ^h 59'	24 ^h 37'	6 ^h 59'	13 ^h 15'	13 ^h 44'	6 ^h 3'	6 ^h 12'	5 ^h 3'	26 ^h 52'	n.a.
F 26	20 9 47	0 ^h 59'12"	13 ^h 34'	26 ^h 26'	10 ^h 44'	15 ^h 38'	24 ^h 41'	7 ^h 6'	13 ^h 12'	13 ^h 44'	6 ^h 3'	6 ^h 8'	5 ^h 0'	26 ^h 59'	n.a.
S 27	20 13 44	1 ^h 57'04"	25 ^h 50'	26 ^h 51'	11 ^h 54'	16 ^h 16'	24 ^h 45'	7 ^h 13'	13 ^h 10'	13 ^h 45'	6 ^h 3'	6 ^h 4'	4 ^h 56'	27 ^h 6'	n.a.
S 28	20 17 41	2 ^h 54'57"	7 ^h 055'	27 ^h 12'	13 ^h 4'	16 ^h 55'	24 ^h 48'	7 ^h 21'	13 ^h 8'	13 ^h 46'	6 ^h 3'	6 ^h 1'	4 ^h 53'	27 ^h 13'	n.a.
M29	20 21 37	3 ^h 52'52"	19 ^h 52'	27 ^h 28'	14 ^h 13'	17 ^h 33'	24 ^h 52'	7 ^h 28'	13 ^h 6'	13 ^h 47'	6 ^h 3'	5 ^h 59'	4 ^h 50'	27 ^h 19'	n.a.
T 30	20 25 34	4 ^h 50'48"	1 ^h ML45'	27 ^h 39'	15 ^h 23'	18 ^h 11'	24 ^h 55'	7 ^h 35'	13 ^h 3'	13 ^h 48'	6 ^h 4'	5 ^h D58	4 ^h 47'	27 ^h 26'	n.a.
W31	20 29 30	5 ^h 048'46"	13 ^h ML38'	27 ^h R45'	16 ^h II33'	18 ^h II49'	24 ^h Y59'	7 ^h 042'	13 ^h 8' 1"	13 ^h 50'	6 ^h 4'	5 ^h 58'	4 ^h 44'	27 ^h 33'	n.a.

Delta T = 9026.84 sec.

Julian Calendar 1 July 149 == Greg. Calendar 30 June 149

AUGUST 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 33 27	6 ^h 046'45"	25 ^h ML36'	27 ^h R44'	17 ^h II42'	19 ^h II27'	25 ^h Y 2'	7 ^h 049'	12 ^h R59'	13 ^h 51'	6 ^h 4'	6 ^h 0'	4 ^h 30'	27 ^h 39'	n.a.
F 2	20 37 23	7 ^h 44'46"	7 ^h 7'45"	27 ^h 038'	18 ^h 51'	20 ^h 5'	25 ^h 4'	7 ^h 57'	12 ^h 857'	13 ^h 52'	6 ^h 4'	6 ^h 1'	4 ^h 37'	27 ^h 46'	n.a.
S 3	20 41 20	8 ^h 42'48"	20 ^h 9'	27 ^h 26'	20 ^h 1'	20 ^h 43'	25 ^h 7'	8 ^h 4'	12 ^h 55'	13 ^h 53'	6 ^h 4'	6 ^h 3'	4 ^h 34'	27 ^h 53'	n.a.
S 4	20 45 16	9 ^h 40'51"	2 ^h 351'	27 ^h 7'	21 ^h 10'	21 ^h 21'	25 ^h 9'	8 ^h 11'	12 ^h 53'	13 ^h 54'	6 ^h 4'	6 ^h R 4'	4 ^h 31'	27 ^h 59'	n.a.
M 5	20 49 13	10 ^h 38'56"	15 ^h 53'	26 ^h 43'	22 ^h 19'	21 ^h 59'	25 ^h 12'	8 ^h 18'	12 ^h 51'	13 ^h 55'	6 ^h 4'	6 ^h 3'	4 ^h 28'	28 ^h 6'	n.a.
T 6	20 53 10	11 ^h 37'03"	29 ^h 18'	26 ^h 12'	23 ^h 28'	22 ^h 37'	25 ^h 14'	8 ^h 25'	12 ^h 49'	13 ^h 57'	6 ^h 4'	6 ^h 1'	4 ^h 25'	28 ^h 13'	n.a.
W 7	20 57 6	12 ^h 35'12"	13 ^h 3 3'	25 ^h 35'	24 ^h 37'	23 ^h 14'	25 ^h 16'	8 ^h 31'	12 ^h 47'	13 ^h 58'	6 ^h R 4'	5 ^h 58'	4 ^h 21'	28 ^h 20'	n.a.
T 8	21 1 3	13 ^h 33'22"	27 ^h 7'	24 ^h 53'	25 ^h 46'	23 ^h 52'	25 ^h 17'	8 ^h 38'	12 ^h 45'	13 ^h 59'	6 ^h 4'	5 ^h 53'	4 ^h 18'	28 ^h 26'	n.a.
F 9	21 4 59	14 ^h 31'34"	11 ^h X24'	24 ^h 5'	26 ^h 54'	24 ^h 29'	25 ^h 19'	8 ^h 45'	12 ^h 43'	14 ^h 0'	6 ^h 4'	5 ^h 47'	4 ^h 15'	28 ^h 33'	n.a.
S 10	21 8 56	15 ^h 29'48"	25 ^h 50'	23 ^h 13'	28 ^h 3'	25 ^h 7'	25 ^h 20'	8 ^h 52'	12 ^h 41'	14 ^h 2'	6 ^h 4'	5 ^h 41'	4 ^h 12'	28 ^h 40'	n.a.
S 11	21 12 52	16 ^h 28'05"	10 ^h Y18'	22 ^h 17'	29 ^h 11'	25 ^h 44'	25 ^h 21'	8 ^h 59'	12 ^h 39'	14 ^h 3'	6 ^h 4'	5 ^h 36'	4 ^h 9'	28 ^h 46'	n.a.
M12	21 16 49	17 ^h 26'23"	24 ^h 14'	21 ^h 18'	0 ^h 020'	26 ^h 22'	25 ^h 22'	9 ^h 5'	12 ^h 37'	14 ^h 5'	6 ^h 4'	5 ^h 32'	4 ^h 5'	28 ^h 53'	n.a.
T 13	21 20 45	18 ^h 24'44"	9 ^h 2 2'	20 ^h 18'	1 ^h 28'	26 ^h 59'	25 ^h 23'	9 ^h 12'	12 ^h 36'	14 ^h 6'	6 ^h 4'	5 ^h 30'	4 ^h 2'	29 ^h 0'	n.a.
W14	21 24 42	19 ^h 23'07"	23 ^h 10'	19 ^h 18'	2 ^h 36'	27 ^h 36'	25 ^h 23'	9 ^h 19'	12 ^h 34'	14 ^h 7'	6 ^h 4'	5 ^h D30	3 ^h 59'	29 ^h 7'	n.a.
T 15	21 28 39	20 ^h 21'32"	7 ^h II 8'	18 ^h 19'	3 ^h 44'	28 ^h 13'	25 ^h 23'	9 ^h 25'	12 ^h 32'	14 ^h 9'	6 ^h 4'	5 ^h 31'	3 ^h 56'	29 ^h 13'	n.a.
F 16	21 32 35	21 ^h 19'59"	20 ^h 53'	17 ^h 22'	4 ^h 52'	28 ^h 50'	25 ^h R23	9 ^h 32'	12 ^h 30'	14 ^h 10'	6 ^h 4'	5 ^h 32'	3 ^h 53'	29 ^h 20'	n.a.
S 17	21 36 32	22 ^h 18'29"	4 ^h 027'	16 ^h 29'	6 ^h 0'	29 ^h 27'	25 ^h 23'	9 ^h 38'	12 ^h 29'	14 ^h 12'	6 ^h 3'	5 ^h R33	3 ^h 50'	29 ^h 27'	n.a.
S 18	21 40 28	23 ^h 17'01"	17 ^h 50'	15 ^h 41'	7 ^h 8'	0 ^h 08 4'	25 ^h 23'	9 ^h 44'	12 ^h 27'	14 ^h 14'	6 ^h 3'	5 ^h 32'	3 ^h 46'	29 ^h 33'	n.a.
M19	21 44 25	24 ^h													

SWISS EPHEMERIS for the year 149

SEPTEMBER 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
S 1	22 35 40	6♍59'56	10♌41	19♏25	22♎41	8♄31	24°R57	11♄7	12°R 8	14♎38	5°R58	4°R24	3♌2	1♍7	n.a.	
M 2	22 39 37	7°58'57	23°48	20°41	23°46	9° 7	24°Y54	11°13	12♌7	14°40	5♄57	4♌22	2°59	1°14	n.a.	
T 3	22 43 33	8°58'00	7♎22	22° 3	24°51	9°42	24°50	11°18	12° 6	14°41	5°57	4°18	2°56	1°21	n.a.	
W 4	22 47 30	9°57'05	21°22	23°30	25°56	10°18	24°47	11°23	12° 5	14°43	5°56	4°12	2°52	1°27	n.a.	
T 5	22 51 26	10°56'11	5♄47	25° 0	27° 1	10°53	24°43	11°28	12° 4	14°45	5°56	4° 3	2°49	1°34	n.a.	
F 6	22 55 23	11°55'20	20°29	26°34	28° 6	11°28	24°39	11°33	12° 4	14°47	5°55	3°53	2°46	1°41	n.a.	
S 7	22 59 19	12°54'31	5♄22	28°11	29°10	12° 3	24°34	11°38	12° 3	14°49	5°55	3°42	2°43	1°48	n.a.	
S 8	23 3 16	13°53'44	20°17	29°50	0♍14	12°38	24°30	11°43	12° 2	14°51	5°54	3°33	2°40	1°54	n.a.	
M 9	23 7 12	14°53'00	5♄ 4	1♍31	1°18	13°13	24°25	11°48	12° 1	14°53	5°53	3°26	2°37	2° 1	n.a.	
T 10	23 11 9	15°52'18	19°37	3°13	2°22	13°48	24°21	11°53	12° 1	14°55	5°53	3°21	2°33	2° 8	n.a.	
W11	23 15 5	16°51'39	3♄53	4°56	3°25	14°23	24°16	11°58	12° 0	14°57	5°52	3°18	2°30	2°14	n.a.	
T 12	23 19 2	17°51'02	17°49	6°40	4°28	14°58	24°11	12° 2	11°59	14°59	5°51	3°D18	2°27	2°21	n.a.	
F 13	23 22 59	18°50'27	1♄25	8°25	5°31	15°32	24° 5	12° 7	11°59	15° 1	5°51	3°R18	2°24	2°28	n.a.	
S 14	23 26 55	19°49'55	14°45	10°10	6°34	16° 7	24° 0	12°11	11°58	15° 3	5°50	3°18	2°21	2°35	n.a.	
S 15	23 30 52	20°49'25	27°49	11°55	7°36	16°41	23°54	12°16	11°58	15° 5	5°49	3°15	2°17	2°41	n.a.	
M16	23 34 48	21°48'57	10♏41	13°41	8°38	17°15	23°49	12°20	11°58	15° 8	5°48	3°11	2°14	2°48	n.a.	
T 17	23 38 45	22°48'32	23°21	15°26	9°40	17°49	23°43	12°24	11°57	15°10	5°48	3° 3	2°11	2°55	n.a.	
W18	23 42 41	23°48'09	5♍50	17°10	10°41	18°23	23°37	12°28	11°57	15°12	5°47	2°52	2° 8	3° 1	n.a.	
T 19	23 46 38	24°47'48	18°11	18°55	11°42	18°57	23°30	12°32	11°57	15°14	5°46	2°39	2° 5	3° 8	n.a.	
F 20	23 50 34	25°47'30	0♎23	20°39	12°43	19°31	23°24	12°36	11°57	15°16	5°45	2°25	2° 2	3°15	n.a.	
S 21	23 54 31	26°47'13	12°26	22°22	13°44	20° 5	23°17	12°40	11°57	15°18	5°44	2°11	1°58	3°21	n.a.	
S 22	23 58 28	27°46'58	24°23	24° 5	14°44	20°38	23°11	12°44	11°57	15°20	5°43	1°57	1°55	3°28	n.a.	
M23	0 2 24	28°46'46	6♍14	25°48	15°44	21°12	23° 4	12°48	11°D57	15°22	5°43	1°46	1°52	3°35	n.a.	
T 24	0 6 21	29°46'35	18° 3	27°30	16°43	21°45	22°57	12°51	11°57	15°25	5°42	1°38	1°49	3°42	n.a.	
W25	0 10 17	0♎46'26	29°52	29°11	17°42	22°18	22°50	12°55	11°57	15°27	5°41	1°32	1°46	3°48	n.a.	
T 26	0 14 14	1°46'19	11♌46	0♎52	18°41	22°51	22°43	12°58	11°57	15°29	5°40	1°29	1°42	3°55	n.a.	
F 27	0 18 10	2°46'14	23°49	2°32	19°39	23°24	22°36	13° 1	11°57	15°31	5°39	1°28	1°39	4° 2	n.a.	
S 28	0 22 7	3°46'10	6♌ 6	4°12	20°37	23°57	22°29	13° 4	11°57	15°33	5°38	1°28	1°36	4° 8	n.a.	
S 29	0 26 3	4°46'09	18°44	5°51	21°34	24°30	22°21	13° 7	11°58	15°36	5°37	1°28	1°33	4°15	n.a.	
M30	0 30 0	5♎46'09	1♎46	7♎30	22♍31	25♄ 3	22°Y14	13♄10	11♄58	15♎38	5♄36	1♌26	1♌30	4♍22	n.a.	

Delta T = 9025.16 sec.

Julian Calendar 1 Sept. 149 == Greg. Calendar 31 Aug. 149

OCTOBER 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
T 1	0 33 57	6♎46'10	15♎18	9♎ 8	23♍27	25♄35	22°R 6	13♄13	11♄58	15♎40	5°R35	1°R22	1♌27	4♍28	n.a.	
W 2	0 37 53	7°46'14	29°19	10°45	24°23	26° 7	21°Y58	13°16	11°59	15°42	5♄34	1♌15	1°23	4°35	n.a.	
T 3	0 41 50	8°46'19	13♄50	12°22	25°18	26°40	21°51	13°19	11°59	15°45	5°33	1° 5	1°20	4°42	n.a.	
F 4	0 45 46	9°46'25	28°45	13°59	26°12	27°12	21°43	13°21	12° 0	15°47	5°32	0°54	1°17	4°49	n.a.	
S 5	0 49 43	10°46'34	13♄55	15°35	27° 6	27°43	21°35	13°24	12° 1	15°49	5°31	0°43	1°14	4°55	n.a.	
S 6	0 53 39	11°46'45	29°10	17°10	28° 0	28°15	21°27	13°26	12° 1	15°51	5°30	0°32	1°11	5° 2	n.a.	
M 7	0 57 36	12°46'57	14♌19	18°46	28°53	28°47	21°19	13°28	12° 2	15°54	5°29	0°24	1° 8	5° 9	n.a.	
T 8	1 1 32	13°47'12	29°12	20°20	29°45	29°18	21°11	13°30	12° 3	15°56	5°28	0°18	1° 4	5°15	n.a.	
W 9	1 5 29	14°47'29	13♄43	21°55	0♎36	29°50	21° 3	13°32	12° 4	15°58	5°27	0°15	1° 1	5°22	n.a.	
T 10	1 9 26	15°47'48	27°50	23°29	1°27	0♎21	20°55	13°34	12° 4	16° 0	5°26	0°D14	0°58	5°29	n.a.	
F 11	1 13 22	16°48'09	11♄31	25° 2	2°17	0°52	20°47	13°36	12° 5	16° 3	5°25	0°R15	0°55	5°35	n.a.	
S 12	1 17 19	17°48'32	24°48	26°35	3° 6	1°23	20°39	13°38	12° 6	16° 5	5°24	0°14	0°52	5°42	n.a.	
S 13	1 21 15	18°48'57	7♎45	28° 8	3°55	1°54	20°30	13°39	12° 7	16° 7	5°23	0°13	0°48	5°49	n.a.	
M14	1 25 12	19°49'24	20°26	29°41	4°43	2°24	20°22	13°41	12° 8	16° 9	5°22	0° 9	0°45	5°56	n.a.	
T 15	1 29 8	20°49'54	2♍53	1♍13	5°29	2°54	20°14	13°42	12° 9	16°12	5°21	0° 2	0°42	6° 2	n.a.	
W16	1 33 5	21°50'24	15° 9	2°45	6°15	3°25	20° 6	13°44	12°11	16°14	5°20	29♌53	0°39	6° 9	n.a.	
T 17	1 37 1	22°50'57	27°17	4°16	7° 0	3°55	19°58	13°45	12°12	16°16	5°18	29°41	0°36	6°16	n.a.	
F 18	1 40 58	23°51'32	9♎18	5°48	7°44	4°25	19°50	13°46	12°13	16°18	5°17	29°28	0°33	6°22	n.a.	
S 19	1 44 54	24°52'08	21°14	7°19	8°27	4°54	19°41	13°47	12°14	16°21	5°16	29°15	0°29	6°29	n.a.	
S 20	1 48 51	25°52'46	3♍ 7	8°49	9° 9	5°24	19°33	13°47	12°16	16°23	5°15	29° 3	0°26	6°36	n.a.	
M21	1 52 48	26°53'25	14°57	10°20	9°50	5°53	19°25	13°48	12°17	16°25	5°14	28°53	0°23	6°42	n.a.	
T 22	1 56 44	27°54'06	26°46	11°50	10°30	6°22	19°17	13°49	12°19	16°27	5°13	28°45	0°20	6°49	n.a.	
W23	2 0 41	28°54'48	8♌36	13°19	11° 9	6°51	19° 9	13°49	12°20	16°29	5°12	28°40	0°17	6°56	n.a.	
T 24	2 4 37	29°55'32	20°32	14°48	11°46	7°20	19° 1	13°50	12°22	16°32	5°11	28°38	0°14	7° 3	n.a.	
F 25	2 8 34	0♍56'17	2♌35	16°17	12°22	7°48	18°53	13°50	12°23	16°34	5° 9	28°D38	0°10	7° 9	n.a.	
S 26	2 12 30	1°57'03	14°52	17°46	12°57	8°17	18°46	13°50	12°25	16°36	5° 8	28°38	0° 7	7°16	n.a.	
S 27	2 16 27	2°57'50	27°26	19°14	13°30	8°45	18°38	13°R50	12°27	16°38	5° 7	28°R39	0° 4	7°23	n.a.	
M28	2 20 23	3°58'39	10♎22	20°41	14° 2	9°13	18°30	13°50	12°28	16°40	5° 6	28°39	0° 1	7°29	n.a.	
T 29	2 24 20	4°59'28	23°44	22° 8	14°32	9°40	18°23	13°50	12°30	16°43	5° 5	28°37	29♌58	7°36	n.a.	
W30	2 28 17	6° 0'18	7♄36	23°34	15° 0	10° 8	18°15	13°49	12°32	16°45	5° 4	28°33	29°54	7°43	n.a.	
T 31	2 32 13	7♍ 1'10	21♄57	24♍59	15♌27	10♏35	18°Y 8	13♄49	12♌34	16♎47	5♄ 3	28♌27	29♌51	7♍49	n.a.	

Delta T = 9024.35 sec.

Julian Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 149

NOVEMBER 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
F 1	2 36 10	8♁ 2'02	6♃45	26♁24	15♁53	11♁ 2	18°R 1	13°R48	12♁36	16♁49	5°R 2	28°R20	29♁48	7♁56	n.a.	
S 2	2 40 6	9° 2'55	21°54	27°47	16°16	11°29	17°Y54	13♁48	12°38	16°51	5♁ 0	28♁12	29°45	8° 3	n.a.	
S 3	2 44 3	10° 3'50	7♁13	29°10	16°38	11°55	17°47	13°47	12°40	16°53	4°59	28° 5	29°42	8° 9	n.a.	
M 4	2 47 59	11° 4'45	22°31	0♁31	16°57	12°21	17°40	13°46	12°42	16°55	4°58	27°59	29°39	8°16	n.a.	
T 5	2 51 56	12° 5'42	7♁38	1°51	17°15	12°47	17°33	13°45	12°44	16°57	4°57	27°55	29°35	8°23	n.a.	
W 6	2 55 52	13° 6'40	22°25	3° 9	17°31	13°13	17°26	13°44	12°46	17° 0	4°56	27°D53	29°32	8°30	n.a.	
T 7	2 59 49	14° 7'40	6♁47	4°24	17°44	13°39	17°20	13°43	12°48	17° 2	4°55	27°53	29°29	8°36	n.a.	
F 8	3 3 46	15° 8'41	20°40	5°38	17°56	14° 4	17°13	13°41	12°50	17° 4	4°54	27°54	29°26	8°43	n.a.	
S 9	3 7 42	16° 9'42	4♁ 6	6°49	18° 5	14°29	17° 7	13°40	12°53	17° 6	4°53	27°56	29°23	8°50	n.a.	
S 10	3 11 39	17°10'46	17° 7	7°57	18°12	14°54	17° 1	13°38	12°55	17° 8	4°51	27°R56	29°19	8°56	n.a.	
M11	3 15 35	18°11'50	29°47	9° 1	18°16	15°18	16°55	13°37	12°57	17°10	4°50	27°56	29°16	9° 3	n.a.	
T12	3 19 32	19°12'55	12♁10	10° 1	18°R19	15°42	16°49	13°35	13° 0	17°12	4°49	27°53	29°13	9°10	n.a.	
W13	3 23 28	20°14'02	24°20	10°57	18°18	16° 6	16°44	13°33	13° 2	17°14	4°48	27°49	29°10	9°16	n.a.	
T14	3 27 25	21°15'09	6♁20	11°47	18°16	16°29	16°38	13°31	13° 5	17°16	4°47	27°43	29° 7	9°23	n.a.	
F15	3 31 21	22°16'17	18°15	12°31	18°11	16°53	16°33	13°29	13° 7	17°18	4°46	27°36	29° 4	9°30	n.a.	
S16	3 35 18	23°17'27	0♁ 6	13° 9	18° 3	17°16	16°28	13°27	13°10	17°19	4°45	27°29	29° 0	9°36	n.a.	
S17	3 39 15	24°18'37	11°56	13°38	17°53	17°38	16°23	13°25	13°12	17°21	4°44	27°23	28°57	9°43	n.a.	
M18	3 43 11	25°19'48	24°56	13°59	17°41	18° 0	16°18	13°22	13°15	17°23	4°43	27°18	28°54	9°50	n.a.	
T19	3 47 8	26°20'59	5♁40	14°10	17°26	18°22	16°13	13°20	13°17	17°25	4°42	27°14	28°51	9°57	n.a.	
W20	3 51 4	27°22'11	17°37	14°R11	17° 8	18°44	16° 9	13°17	13°20	17°27	4°41	27°12	28°48	10° 3	n.a.	
T21	3 55 1	28°23'24	29°40	14° 1	16°49	19° 5	16° 5	13°15	13°23	17°29	4°40	27°D11	28°45	10°10	n.a.	
F22	3 58 57	29°24'37	11♁53	13°40	16°27	19°26	16° 1	13°12	13°26	17°31	4°39	27°12	28°41	10°17	n.a.	
S23	4 2 54	0♁25'50	24°16	13° 7	16° 2	19°46	15°57	13° 9	13°28	17°32	4°38	27°14	28°38	10°23	n.a.	
S24	4 6 51	1°27'03	6♁54	12°22	15°36	20° 6	15°53	13° 6	13°31	17°34	4°37	27°16	28°35	10°30	n.a.	
M25	4 10 47	2°28'17	19°51	11°26	15° 8	20°26	15°50	13° 3	13°34	17°36	4°36	27°17	28°32	10°37	n.a.	
T26	4 14 44	3°29'30	3♁ 8	10°21	14°38	20°45	15°46	13° 0	13°37	17°38	4°35	27°R17	28°29	10°43	n.a.	
W27	4 18 40	4°30'43	16°49	9° 8	14° 6	21° 4	15°43	12°56	13°40	17°39	4°34	27°17	28°25	10°50	n.a.	
T28	4 22 37	5°31'57	0♁55	7°49	13°33	21°23	15°40	12°53	13°43	17°41	4°33	27°15	28°22	10°57	n.a.	
F29	4 26 33	6°33'10	15°24	6°27	12°59	21°41	15°38	12°50	13°46	17°43	4°32	27°13	28°19	11° 3	n.a.	
S30	4 30 30	7♁34'23	0♁13	5♁ 5	12♁23	21♁58	15°Y35	12♁46	13♁49	17♁44	4♁31	27♁10	28♁16	11♁10	n.a.	

Delta T = 9023.51 sec.

Julian Calendar 1 Nov. 149 == Greg. Calendar 31 Oct. 149

DECEMBER 149 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
S 1	4 34 26	8♁35'36	15♁16	3°R46	11°R47	22♁16	15°R33	12°R43	13♁52	17♁46	4°R30	27°R 8	28♁13	11♁17	n.a.	
M 2	4 38 23	9°36'49	0♁24	2♁31	11♁11	22°32	15°Y31	12♁39	13°55	17°47	4♁29	27♁ 6	28°10	11°23	n.a.	
T 3	4 42 20	10°38'03	15°27	1°23	10°34	22°49	15°29	12°35	13°58	17°49	4°28	27° 4	28° 6	11°30	n.a.	
W 4	4 46 16	11°39'16	0♁17	0°24	9°57	23° 5	15°27	12°32	14° 1	17°50	4°27	27°D 4	28° 3	11°37	n.a.	
T 5	4 50 13	12°40'30	14°46	29♁35	9°21	23°20	15°26	12°28	14° 4	17°52	4°26	27° 5	28° 0	11°44	n.a.	
F 6	4 54 9	13°41'43	28°50	28°55	8°45	23°35	15°25	12°24	14° 7	17°53	4°25	27° 6	27°57	11°50	n.a.	
S 7	4 58 6	14°42'57	12♁27	28°26	8°10	23°49	15°24	12°20	14°10	17°55	4°25	27° 7	27°54	11°57	n.a.	
S 8	5 2 2	15°44'10	25°38	28° 7	7°36	24° 3	15°23	12°16	14°13	17°56	4°24	27° 8	27°51	12° 4	n.a.	
M 9	5 5 59	16°45'24	8♁24	27°D58	7° 3	24°17	15°22	12°12	14°16	17°58	4°23	27° 9	27°47	12°10	n.a.	
T10	5 9 55	17°46'38	20°51	27°58	6°32	24°29	15°22	12° 7	14°20	17°59	4°22	27°R 9	27°44	12°17	n.a.	
W11	5 13 52	18°47'52	3♁ 5	28° 7	6° 3	24°42	15°22	12° 3	14°23	18° 0	4°21	27° 8	27°41	12°24	n.a.	
T12	5 17 49	19°49'05	15° 0	28°23	5°35	24°53	15°D22	11°59	14°26	18° 2	4°21	27° 8	27°38	12°30	n.a.	
F13	5 21 45	20°50'19	26°52	28°47	5° 9	25° 5	15°22	11°54	14°29	18° 3	4°20	27° 7	27°35	12°37	n.a.	
S14	5 25 42	21°51'33	8♁41	29°18	4°46	25°15	15°22	11°50	14°33	18° 4	4°19	27° 6	27°31	12°44	n.a.	
S15	5 29 38	22°52'46	20°31	29°54	4°24	25°25	15°23	11°45	14°36	18° 5	4°18	27° 5	27°28	12°50	n.a.	
M16	5 33 35	23°53'59	2♁24	0♁35	4° 5	25°35	15°24	11°41	14°39	18° 6	4°18	27° 5	27°25	12°57	n.a.	
T17	5 37 31	24°55'12	14°24	1°22	3°49	25°44	15°25	11°36	14°43	18° 8	4°17	27° 5	27°22	13° 4	n.a.	
W18	5 41 28	25°56'24	26°31	2°13	3°34	25°52	15°26	11°32	14°46	18° 9	4°16	27°D 5	27°19	13°10	n.a.	
T19	5 45 24	26°57'36	8♁49	3° 7	3°23	25°59	15°27	11°27	14°49	18°10	4°16	27°R 5	27°16	13°17	n.a.	
F20	5 49 21	27°58'47	21°17	4° 5	3°13	26° 6	15°29	11°22	14°53	18°11	4°15	27° 5	27°12	13°24	n.a.	
S21	5 53 18	28°59'57	3♁58	5° 6	3° 6	26°13	15°31	11°18	14°56	18°12	4°15	27° 4	27° 9	13°31	n.a.	
S22	5 57 14	0♁ 1'06	16°52	6°10	3° 2	26°18	15°33	11°13	15° 0	18°13	4°14	27° 4	27° 6	13°37	n.a.	
M23	6 1 11	1° 2'15	0♁ 0	7°16	3°D 0	26°23	15°35	11° 8	15° 3	18°14	4°13	27° 4	27° 3	13°44	n.a.	
T24	6 5 7	2° 3'22	13°24	8°25	3° 1	26°27	15°38	11° 3	15° 7	18°15	4°13	27° 3	27° 0	13°51	n.a.	
W25	6 9 4	3° 4'28	27° 3	9°35	3° 4	26°31	15°40	10°58	15°10	18°16	4°12	27°D 3	26°57	13°57	n.a.	
T26	6 13 0	4° 5'33	10♁59	10°48	3° 9	26°34	15°43	10°53	15°13	18°17	4°12	27° 3	26°53	14° 4	n.a.	
F27	6 16 57	5° 6'37	25°11	12° 2	3°17	26°36	15°46	10°49	15°17	18°17	4°11	27° 3	26°50	14°11	n.a.	
S28	6 20 53	6° 7'40	9♁36	13°18	3°27	26°37	15°50	10°44	15°20	18°18	4°11	27° 4	26°47	14°17	n.a.	
S29	6 24 50	7° 8'42	24°12	14°35	3°39	26°R38	15°53	10°39	15°24	18°19	4°10	27° 5	26°44	14°24	n.a.	
M30	6 28 47	8° 9'42	8♁54	15°54	3°53	26°38	15°57	10°34	15°27	18°20	4°10	27° 6	26°41	14°31	n.a.	
T31	6 32 43	9♁10'42	23♁36	17♁14	4♁ 9	26♁37	16°Y 0	10♁29	15♁31	18♁20	4♁10	27°R 6	26♁37	14♁37	n.a.	

Delta T = 9022.69 sec.

Julian Calendar

created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]