

SWISS EPHEMERIS for the year 1241

JANUARY 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	7 10 47	18°18'29	8°0	24°10	15°53	10°25	20°56	12°R26	24°24	15°R35	22°28	15°R41	14°33	10°31	0°27								
W 2	7 14 43	19°19'32	22°52	25° 2	17° 8	10°48	21° 1	12°R22	24°28	15°R34	22°28	15°R31	14°30	10°38	0°29								
T 3	7 18 40	20°20'35	7°39	25°57	18°24	11°11	21° 6	12°17	24°31	15°32	22°29	15°23	14°27	10°44	0°30								
F 4	7 22 37	21°21'38	22°15	26°56	19°39	11°33	21°11	12°13	24°35	15°31	22°29	15°17	14°24	10°51	0°32								
S 5	7 26 33	22°22'39	6°35	27°58	20°54	11°55	21°17	12° 9	24°38	15°30	22°30	15°14	14°20	10°58	0°34								
S 6	7 30 30	23°23'41	20°37	29° 2	22°10	12°17	21°22	12° 4	24°42	15°28	22°30	15°D13	14°17	11° 5	0°35								
M 7	7 34 26	24°24'42	4°20	0°3	23°25	12°39	21°28	12° 0	24°45	15°27	22°31	15°13	14°14	11°11	0°37								
T 8	7 38 23	25°25'42	17°46	1°17	24°40	13° 0	21°34	11°55	24°49	15°26	22°31	15°R13	14°11	11°18	0°39								
W 9	7 42 19	26°26'41	0°57	2°28	25°56	13°21	21°40	11°50	24°52	15°25	22°31	15°12	14° 8	11°25	0°41								
T 10	7 46 16	27°27'40	13°55	3°40	27°11	13°41	21°47	11°46	24°56	15°23	22°32	15° 9	14° 5	11°31	0°43								
F 11	7 50 12	28°28'38	26°41	4°55	28°27	14° 1	21°53	11°41	24°59	15°22	22°32	15° 3	14° 1	11°38	0°45								
S 12	7 54 9	29°29'36	9°17	6°11	29°42	14°21	22° 0	11°36	25° 3	15°21	22°32	14°53	13°58	11°45	0°47								
S 13	7 58 6	0°30'32	21°43	7°28	0°57	14°40	22° 7	11°32	25° 6	15°20	22°32	14°41	13°55	11°51	0°49								
M14	8 2 2	1°31'27	4°0	8°47	2°12	14°59	22°14	11°27	25°10	15°19	22°32	14°28	13°52	11°58	0°51								
T 15	8 5 59	2°32'21	16° 9	10° 7	3°28	15°18	22°21	11°22	25°13	15°18	22°32	14°13	13°49	12° 5	0°54								
W16	8 9 55	3°33'14	28°10	11°28	4°43	15°36	22°28	11°17	25°17	15°17	22°32	13°59	13°46	12°12	0°56								
T 17	8 13 52	4°34'05	10°4	12°51	5°58	15°54	22°36	11°13	25°20	15°16	22°R33	13°47	13°42	12°18	0°58								
F 18	8 17 48	5°34'55	21°54	14°14	7°14	16°11	22°43	11° 8	25°24	15°15	22°32	13°37	13°39	12°25	1° 1								
S 19	8 21 45	6°35'44	3°43	15°39	8°29	16°28	22°51	11° 3	25°27	15°14	22°32	13°30	13°36	12°32	1° 3								
S 20	8 25 41	7°36'31	15°34	17° 4	9°44	16°44	22°59	10°58	25°31	15°13	22°32	13°26	13°33	12°38	1° 5								
M21	8 29 38	8°37'16	27°33	18°31	10°59	17° 0	23° 7	10°53	25°34	15°12	22°32	13°25	13°30	12°45	1° 8								
T 22	8 33 35	9°38'00	9°44	19°58	12°14	17°16	23°15	10°48	25°38	15°11	22°32	13°24	13°26	12°52	1°10								
W23	8 37 31	10°38'42	22°13	21°27	13°30	17°31	23°24	10°43	25°41	15°10	22°32	13°24	13°23	12°59	1°13								
T 24	8 41 28	11°39'23	5°11	22°56	14°45	17°45	23°32	10°38	25°45	15°10	22°32	13°23	13°20	13° 5	1°16								
F 25	8 45 24	12°40'02	18°24	24°26	16° 0	17°59	23°41	10°34	25°48	15° 9	22°31	13°20	13°17	13°12	1°18								
S 26	8 49 21	13°40'39	2°14	25°57	17°15	18°13	23°50	10°29	25°51	15° 8	22°31	13°14	13°14	13°19	1°21								
S 27	8 53 17	14°41'14	16°33	27°29	18°30	18°26	23°58	10°24	25°55	15° 7	22°31	13° 5	13°11	13°25	1°24								
M28	8 57 14	15°41'48	1°18	29° 2	19°45	18°39	24° 8	10°19	25°58	15° 7	22°30	12°55	13° 7	13°32	1°26								
T 29	9 1 10	16°42'20	16°22	0°36	21° 0	18°51	24°17	10°14	26° 2	15° 6	22°30	12°43	13° 4	13°39	1°29								
W30	9 5 7	17°42'51	1°35	2°11	22°16	19° 2	24°26	10° 9	26° 5	15° 6	22°30	12°31	13° 1	13°45	1°32								
T 31	9 9 4	18°43'20	16°46	3°47	23°31	19°13	24°35	10° 5	26° 8	15° 5	22°29	12°22	12°58	13°52	1°35								

Delta T = 10m14s Julian Calendar 1 Jan. 1241 == Greg. Calendar 8 Jan. 1241

FEBRUARY 1241 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
F 1	9 13 0	19°43'47	1°44	5°23	24°46	19°24	24°45	10°R 0	26°12	15°R 4	22°R29	12°R14	12°55	13°59	1°38								
S 2	9 16 57	20°44'13	16°23	7° 1	26° 1	19°34	24°55	9°R55	26°15	15°R 4	22°28	12°R10	12°51	14° 6	1°40								
S 3	9 20 53	21°44'38	0°38	8°39	27°16	19°43	25° 4	9°50	26°18	15° 3	22°28	12° 8	12°48	14°12	1°43								
M 4	9 24 50	22°45'01	14°28	10°19	28°31	19°52	25°14	9°46	26°21	15° 3	22°27	12°D 8	12°45	14°19	1°46								
T 5	9 28 46	23°45'23	27°54	11°59	29°46	20° 0	25°24	9°41	26°25	15° 3	22°26	12°R 8	12°42	14°26	1°49								
W 6	9 32 43	24°45'44	10°59	13°40	1°11	20° 7	25°34	9°36	26°28	15° 2	22°26	12° 7	12°39	14°32	1°52								
T 7	9 36 39	25°46'03	23°47	15°23	2°16	20°14	25°45	9°32	26°31	15° 2	22°25	12° 4	12°36	14°39	1°55								
F 8	9 40 36	26°46'21	6°20	17° 6	3°31	20°20	25°55	9°27	26°34	15° 2	22°24	11°58	12°32	14°46	1°59								
S 9	9 44 33	27°46'37	18°41	18°51	4°46	20°25	26° 5	9°23	26°37	15° 1	22°24	11°49	12°29	14°53	2° 2								
S 10	9 48 29	28°46'51	0°53	20°36	6° 0	20°30	26°16	9°18	26°40	15° 1	22°23	11°38	12°26	14°59	2° 5								
M11	9 52 26	29°47'04	12°58	22°22	7°15	20°34	26°27	9°14	26°44	15° 1	22°22	11°25	12°23	15° 6	2° 8								
T 12	9 56 22	0°47'15	24°58	24°10	8°30	20°38	26°38	9° 9	26°47	15° 1	22°21	11°11	12°20	15°13	2°11								
W13	10 0 19	1°47'24	6°52	25°58	9°45	20°41	26°48	9° 5	26°50	15° 1	22°20	10°58	12°17	15°19	2°14								
T 14	10 4 15	2°47'31	18°43	27°48	11° 0	20°43	26°59	9° 1	26°53	15° 0	22°19	10°46	12°13	15°26	2°18								
F 15	10 8 12	3°47'36	0°33	29°39	12°15	20°44	27°10	8°57	26°56	15° 0	22°18	10°37	12°10	15°33	2°21								
S 16	10 12 8	4°47'39	12°23	1°30	13°30	20°R45	27°22	8°52	26°59	15° 0	22°17	10°30	12° 7	15°39	2°24								
S 17	10 16 5	5°47'40	24°15	3°23	14°44	20°44	27°33	8°48	27° 2	15°D 0	22°16	10°26	12° 4	15°46	2°28								
M18	10 20 2	6°47'39	6°15	5°17	15°59	20°44	27°44	8°44	27° 4	15° 0	22°15	10°D25	12° 1	15°53	2°31								
T 19	10 23 58	7°47'36	18°26	7°12	17°14	20°42	27°56	8°40	27° 7	15° 0	22°14	10°25	11°57	15°59	2°34								
W20	10 27 55	8°47'30	0°53	9° 7	18°29	20°40	28° 7	8°36	27°10	15° 0	22°13	10°26	11°54	16° 6	2°38								
T 21	10 31 51	9°47'23	13°40	11° 4	19°43	20°37	28°19	8°33	27°13	15° 1	22°12	10°R26	11°51	16°13	2°41								
F 22	10 35 48	10°47'13	26°52	13° 1	20°58	20°33	28°31	8°29	27°16	15° 1	22°11	10°25	11°48	16°20	2°45								
S 23	10 39 44	11°47'01	10°33	14°59	22°13	20°28	28°43	8°25	27°19	15° 1	22°10	10°21	11°45	16°26	2°48								
S 24	10 43 41	12°46'47	24°44	16°58	23°27	20°23	28°54	8°22	27°21	15° 1	22° 9	10°16	11°42	16°33	2°51								
M25	10 47 37	13°46'30	9°23	18°57	24°42	20°16	29° 6	8°18	27°24	15° 1	22° 7	10° 8	11°38	16°40	2°55								
T 26	10 51 34	14°46'11	24°25	20°56	25°56	20°10	29°18	8°15	27°27	15° 2	22° 6	10° 0	11°35	16°46	2°58								
W27	10 55 31	15°45'50	9°41	22°56	27°11	20° 2	29°31	8°11	27°29	15° 2	22° 5	9°51	11°32	16°53	3° 2								
T 28	10 59 27	16°45'26	25°11	24°55	28°25	19°53	29°43	8° 8	27°32	15° 2	22° 4	9°44	11°29	17° 0	3° 5								

Delta T = 10m14s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 1241

MARCH 1241 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	11 3 24	17°45'01"	10°12'12"	26°45'54"	29°48'40"	19°R44	29°45'55"	8°R 5	27°33'34"	15°II 3	22°R 2	9°R39	11°8'26"	17°46'	3°49'		
S 2	11 7 20	18°44'34"	25° 7'	28°52'	0°45'54"	19°43'34"	0°8' 7'	8°L 2	27°37'	15° 3'	22°41'	9°8'36"	11°23'	17°13'	3°12'		
S 3	11 11 17	19°44'05"	9°M37'	0°49'	2° 9'	19°23'	0°20'	7°59'	27°39'	15° 4'	22° 0'	9°D35'	11°19'	17°20'	3°16'		
M 4	11 15 13	20°43'34"	23°40'	2°45'	3°23'	19°12'	0°32'	7°56'	27°42'	15° 4'	21°58'	9°35'	11°16'	17°27'	3°20'		
T 5	11 19 10	21°43'02"	7°41'16"	4°39'	4°37'	19° 0'	0°45'	7°53'	27°44'	15° 5'	21°57'	9°36'	11°13'	17°33'	3°23'		
W 6	11 23 6	22°42'27"	20°26'	6°30'	5°52'	18°47'	0°57'	7°50'	27°47'	15° 5'	21°56'	9°R37'	11°10'	17°40'	3°27'		
T 7	11 27 3	23°41'51"	3°31'14"	8°19'	7° 6'	18°33'	1°10'	7°48'	27°49'	15° 6'	21°54'	9°37'	11° 7'	17°47'	3°30'		
F 8	11 31 0	24°41'14"	15°43'	10° 5'	8°20'	18°18'	1°23'	7°45'	27°51'	15° 7'	21°53'	9°34'	11° 3'	17°53'	3°34'		
S 9	11 34 56	25°40'34"	27°59'	11°47'	9°35'	18° 3'	1°36'	7°43'	27°54'	15° 7'	21°51'	9°30'	11° 0'	18° 0'	3°38'		
S 10	11 38 53	26°39'52"	10°8' 3"	13°25'	10°49'	17°47'	1°49'	7°40'	27°56'	15° 8'	21°50'	9°24'	10°57'	18° 7'	3°41'		
M11	11 42 49	27°39'09"	22° 1'	14°59'	12° 3'	17°31'	2° 2'	7°38'	27°58'	15° 9'	21°48'	9°17'	10°54'	18°13'	3°45'		
T 12	11 46 46	28°38'23"	3°45'54"	16°29'	13°17'	17°14'	2°14'	7°36'	28° 0'	15°10'	21°47'	9° 9'	10°51'	18°20'	3°48'		
W13	11 50 42	29°37'36"	15°44'	17°53'	14°32'	16°56'	2°28'	7°34'	28° 2'	15°10'	21°45'	9° 1'	10°48'	18°27'	3°52'		
T 14	11 54 39	0°43'36'47"	27°34'	19°12'	15°46'	16°38'	2°41'	7°32'	28° 4'	15°11'	21°44'	8°54'	10°44'	18°34'	3°56'		
F 15	11 58 35	1°35'55"	9°45'25"	20°25'	17° 0'	16°19'	2°54'	7°30'	28° 6'	15°12'	21°42'	8°49'	10°41'	18°40'	3°59'		
S 16	12 2 32	2°35'01"	21°20'	21°33'	18°14'	15°59'	3° 7'	7°28'	28° 8'	15°13'	21°41'	8°46'	10°38'	18°47'	4° 3'		
S 17	12 6 29	3°34'06"	3°8'20"	22°34'	19°28'	15°39'	3°20'	7°26'	28°10'	15°14'	21°39'	8°D44'	10°35'	18°54'	4° 7'		
M18	12 10 25	4°33'08"	15°27'	23°29'	20°42'	15°19'	3°34'	7°25'	28°12'	15°15'	21°37'	8°44'	10°32'	19° 0'	4°10'		
T 19	12 14 22	5°32'08"	27°45'	24°18'	21°56'	14°58'	3°47'	7°23'	28°14'	15°16'	21°36'	8°45'	10°28'	19° 7'	4°14'		
W20	12 18 18	6°31'05"	10°II16"	25° 0'	23°10'	14°37'	4° 0'	7°22'	28°16'	15°17'	21°34'	8°47'	10°25'	19°14'	4°18'		
T 21	12 22 15	7°30'01"	23° 6'	25°35'	24°24'	14°15'	4°14'	7°21'	28°18'	15°18'	21°33'	8°49'	10°22'	19°20'	4°21'		
F 22	12 26 11	8°28'54"	6°16'26"	26° 4'	25°38'	13°53'	4°27'	7°19'	28°19'	15°19'	21°31'	8°R49'	10°19'	19°27'	4°25'		
S 23	12 30 8	9°27'45"	19°49'	26°26'	26°52'	13°31'	4°41'	7°18'	28°21'	15°20'	21°29'	8°49'	10°16'	19°34'	4°28'		
S 24	12 34 4	10°26'33"	3°49'49"	26°42'	28° 6'	13° 9'	4°54'	7°17'	28°23'	15°21'	21°28'	8°47'	10°13'	19°40'	4°32'		
M25	12 38 1	11°25'19"	18°13'	26°51'	29°20'	12°47'	5° 8'	7°17'	28°24'	15°22'	21°26'	8°44'	10° 9'	19°47'	4°36'		
T 26	12 41 58	12°24'03"	2°49'59"	26°R53'	0°8'33"	12°24'	5°22'	7°16'	28°26'	15°24'	21°24'	8°41'	10° 6'	19°54'	4°39'		
W27	12 45 54	13°22'44"	18° 1'	26°49'	1°47'	12° 1'	5°35'	7°15'	28°27'	15°25'	21°23'	8°37'	10° 3'	20° 1'	4°43'		
T 28	12 49 51	14°21'24"	3°41'10"	26°40'	3° 1'	11°38'	5°49'	7°15'	28°29'	15°26'	21°21'	8°34'	10° 0'	20° 7'	4°47'		
F 29	12 53 47	15°20'01"	18°17'	26°24'	4°14'	11°16'	6° 3'	7°14'	28°30'	15°27'	21°19'	8°32'	9°57'	20°14'	4°50'		
S 30	12 57 44	16°18'36"	3°M13"	26° 3'	5°28'	10°53'	6°16'	7°14'	28°31'	15°29'	21°18'	8°D31'	9°54'	20°21'	4°54'		
S 31	13 1 40	17°17'10"	17°M49"	25°43'38"	6°42'	10°43'30"	6°30'	7°L14"	28°33'	15°II30"	21°16'	8°31'	9°50'	20°42'27"	4°57'		

Delta T = 10m14s Julian Calendar 1 March 1241 == Greg. Calendar 8 March 1241

APRIL 1241 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	13 5 37	18°15'54"	2°47' 1"	25°R 8'	7°8'55"	10°R 8'	6°8'44"	7°L14"	28°33'34"	15°II31"	21°R14"	8°8'32"	9°8'47"	20°46'34"	5°49' 1"		
T 2	13 9 33	19°14'12"	15°46'	24°43'35"	9° 9'	9°45'	6°58'	7°14"	28°35'	15°33'	21°12'	8°34'	9°44'	20°41'	5° 4'		
W 3	13 13 30	20°12'40"	29° 5'	23°59'	10°22'	9°23'	7°12'	7°14"	28°36'	15°34'	21°11'	8°35'	9°41'	20°47'	5° 8'		
T 4	13 17 27	21°11'07"	11°35'59"	23°20'	11°36'	9° 1'	7°26'	7°14"	28°38'	15°36'	21° 9'	8°36'	9°38'	20°54'	5°12'		
F 5	13 21 23	22° 9'32"	24°32'	22°40'	12°49'	8°40'	7°40'	7°15"	28°39'	15°37'	21° 7'	8°R36'	9°34'	21° 1'	5°15'		
S 6	13 25 20	23° 7'56"	6°44'48"	21°59'	14° 3'	8°18'	7°54"	7°15"	28°40'	15°39'	21° 6'	8°36'	9°31'	21° 7'	5°19'		
S 7	13 29 16	24° 6'18"	18°52'	21°18'	15°16'	7°58'	8° 8'	7°16"	28°41'	15°40'	21° 4'	8°34'	9°28'	21°14'	5°22'		
M 8	13 33 13	25° 4'38"	0°47'47"	20°38'	16°29'	7°37'	8°22'	7°16"	28°41'	15°42'	21° 2'	8°33'	9°25'	21°21'	5°26'		
T 9	13 37 9	26° 2'57"	12°37'	19°59'	17°43'	7°17'	8°36'	7°17"	28°42'	15°43'	21° 1'	8°31'	9°22'	21°27'	5°29'		
W10	13 41 6	27° 1'14"	24°26'	19°23'	18°56'	6°58'	8°50'	7°18"	28°43'	15°45'	20°59'	8°29'	9°19'	21°34'	5°32'		
T 11	13 45 2	27°59'29"	6°49'18"	18°49'	20° 9'	6°39'	9° 4'	7°19"	28°44'	15°46'	20°57'	8°28'	9°15'	21°41'	5°36'		
F 12	13 48 59	28°57'43"	18°14'	18°18'	21°23'	6°20'	9°18"	7°20"	28°45'	15°48'	20°56'	8°26'	9°12'	21°48'	5°39'		
S 13	13 52 55	29°55'54"	0°8'16"	17°50'	22°36'	6° 2'	9°32"	7°21"	28°45'	15°50'	20°54'	8°26'	9° 9'	21°54'	5°43'		
S 14	13 56 52	0°8'54'05"	12°27'	17°27'	23°49'	5°45'	9°46"	7°22"	28°46'	15°51'	20°52'	8°D26"	9° 6'	22° 1'	5°46'		
M15	14 0 49	1°52'13"	24°48'	17° 8'	25° 2'	5°28'	10° 0'	7°24"	28°47'	15°53'	20°51'	8°26'	9° 3'	22° 8'	5°49'		
T 16	14 4 45	2°50'20"	7°II21"	16°53'	26°15'	5°13'	10°14"	7°25"	28°47'	15°55'	20°49'	8°27'	9° 0'	22°14'	5°53'		
W17	14 8 42	3°48'25"	20° 7'	16°43'	27°28'	4°57'	10°28"	7°27"	28°48'	15°56'	20°47'	8°27'	8°56'	22°21'	5°56'		
T 18	14 12 38	4°46'28"	3°8' 8"	16°37'	28°41'	4°43'	10°42"	7°29"	28°48'	15°58'	20°46'	8°28'	8°53'	22°28'	5°59'		
F 19	14 16 35	5°44'29"	16°25'	16°D37'	29°54'	4°29'	10°57"	7°31"	28°48'	16° 0'	20°44'	8°28'	8°50'	22°34'	6° 3'		
S 20	14 20 31	6°42'28"	0°L 0"	16°41'	1°II 7'	4°16'	11°11"	7°33"	28°49'	16° 2'	20°42'	8°28'	8°47'	22°41'	6° 6'		
S 21	14 24 28	7°40'25"	13°54'	16°49'	2°20'	4° 4'	11°25"	7°35"	28°49'	16° 4'	20°41'	8°R28"	8°44'	22°48'	6° 9'		
M22	14 28 24	8°38'20"	28° 5'	17° 2'	3°33'	3°52'	11°39"	7°37"	28°49'	16° 6'	20°39'	8°D28"	8°40'	22°54'	6°12'		
T 23	14 32 21	9°36'14"	12°49'32"	17°20'	4°46'	3°42'	11°53"	7°39"	28°49'	16° 7'	20°38'	8°28'	8°37'	23° 1'	6°16'		
W24	14 36 18	10°34'05"	27°11'	17°42'	5°59'	3°32'	12° 7'	7°41"	28°49'	16° 9'	20°36'	8°28'	8°34'	23° 8'	6°19'		
T 25	14 40 14	11°31'55"	11°45'55"	18° 9'	7°11'	3°23'	12°22"	7°44"	28°50'	16°11'	20°34'	8°28'	8°31'	23°14'	6°22'		
F 26	14 44 11	12°29'43"	26°45'	18°39'	8°24'	3°15'	12°36"	7°46"	28°R50"	16°13'	20°33'	8°29'	8°28'	23°21'	6°25'		
S 27	14 48 7	13°27'30"	11°M25"	19°14'	9°37'	3° 7'	12°50"	7°49"	28°50'	16°15'	20°31'	8°R29"	8°25'	23°28'	6°28'		
S 28	14 52 4	14°25'15"	25°53'	19°53'	10°49'	3° 0'	13° 4'	7°52"	28°49'	16°17'	20°30'	8°28'	8°21'	23°35'	6°31'		
M29	14 56 0	15°22'59"	10°47' 2"	20°35'	12° 2'	2°55'	13°18"	7°54"	28°49'	16°19'	20°28'	8°28'	8°18'	23°41'	6°34'		
T 30	14 59 57	16°20'41"	23°47'49"	21°42'21"	13°II14"	2°44'49"	13°32'	7°L57"	2								

SWISS EPHEMERIS for the year 1241

JULY 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
M 1	19 4 24	15 [☉] 34'10	25 [☽] 3 3	8 [♀] 56	26 [♁] 25	18 [♂] 24	27 [♃] 11	13 [♄] 27	27 [♅] R19	18 [♆] 35	19 [♇] 44	5 [♈] R39	4 [♉] 58	0 [♊] 42	8 [♋] 23								
T 2	19 8 20	16 [☉] 31'24	6 [♀] 53	10 [♁] 24	27 [♂] 34	18 [♃] 53	27 [♄] 23	13 [♅] 34	27 [♆] 16	18 [♇] 37	19 [♈] 44	5 [♉] R37	4 [♊] 55	0 [♋] 49	8 [♌] 23								
W 3	19 12 17	17 [☉] 28'40	18 [☽] 43	11 [♀] 50	28 [♁] 42	19 [♂] 23	27 [♃] 34	13 [♄] 41	27 [♅] 14	18 [♆] 39	19 [♇] 45	5 [♈] D36	4 [♉] 52	0 [♊] 55	8 [♋] 24								
T 4	19 16 13	18 [☉] 25'56	0 [☽] 39	13 [♀] 14	29 [♁] 50	19 [♂] 52	27 [♃] 45	13 [♄] 49	27 [♅] 12	18 [♆] 41	19 [♇] 45	5 [♈] R37	4 [♉] 49	1 [♊] 2	8 [♋] 24								
F 5	19 20 10	19 [☉] 23'13	12 [☽] 46	14 [♀] 36	0 [♁] 58	20 [♂] 22	27 [♃] 57	13 [♄] 56	27 [♅] 9	18 [♆] 43	19 [♇] 45	5 [♈] 37	4 [♉] 45	1 [♊] 9	8 [♋] R24								
S 6	19 24 6	20 [☉] 20'31	25 [☽] 9	15 [♀] 57	2 [♁] 6	20 [♂] 53	28 [♃] 8	14 [♄] 3	27 [♅] 7	18 [♆] 45	19 [♇] 46	5 [♈] 35	4 [♉] 42	1 [♊] 15	8 [♋] 24								
S 7	19 28 3	21 [☉] 17'50	7 [☽] 52	17 [♀] 14	3 [♁] 14	21 [♂] 23	28 [♃] 19	14 [♄] 10	27 [♅] 5	18 [♆] 47	19 [♇] 46	5 [♈] 31	4 [♉] 39	1 [♊] 22	8 [♋] 23								
M 8	19 31 59	22 [☉] 15'10	20 [☽] 58	18 [♀] 30	4 [♁] 21	21 [♂] 54	28 [♃] 30	14 [♄] 17	27 [♅] 2	18 [♆] 49	19 [♇] 47	5 [♈] 25	4 [♉] 36	1 [♊] 29	8 [♋] 23								
T 9	19 35 56	23 [☉] 12'31	4 [☽] 28	19 [♀] 44	5 [♁] 29	22 [♂] 25	28 [♃] 40	14 [♄] 25	27 [♅] 0	18 [♆] 51	19 [♇] 47	5 [♈] 17	4 [♉] 33	1 [♊] 35	8 [♋] 23								
W10	19 39 53	24 [☉] 9'53	18 [☽] 21	20 [♀] 55	6 [♁] 36	22 [♂] 56	28 [♃] 51	14 [♄] 32	26 [♅] 57	18 [♆] 53	19 [♇] 48	5 [♈] 6	4 [♉] 30	1 [♊] 42	8 [♋] 23								
T11	19 43 49	25 [☉] 7'16	2 [☽] 34	22 [♀] 4	7 [♁] 44	23 [♂] 28	29 [♃] 2	14 [♄] 39	26 [♅] 55	18 [♆] 55	19 [♇] 48	4 [♈] 55	4 [♉] 26	1 [♊] 49	8 [♋] 23								
F12	19 47 46	26 [☉] 4'39	17 [☽] 0	23 [♀] 10	8 [♁] 51	24 [♂] 0	29 [♃] 12	14 [♄] 47	26 [♅] 53	18 [♆] 57	19 [♇] 49	4 [♈] 44	4 [♉] 23	1 [♊] 55	8 [♋] 22								
S13	19 51 42	27 [☉] 2'03	1 [☽] 33	24 [♀] 14	9 [♁] 58	24 [♂] 32	29 [♃] 23	14 [♄] 54	26 [♅] 50	18 [♆] 58	19 [♇] 50	4 [♈] 34	4 [♉] 20	2 [♊] 2	8 [♋] 22								
S14	19 55 39	27 [☉] 59'28	16 [☽] 7	25 [♀] 15	11 [♁] 5	25 [♂] 4	29 [♃] 33	15 [♄] 1	26 [♅] 48	19 [♆] 0	19 [♇] 51	4 [♈] 27	4 [♉] 17	2 [♊] 9	8 [♋] 21								
M15	19 59 35	28 [☉] 56'53	0 [☽] 35	26 [♀] 13	12 [♁] 11	25 [♂] 37	29 [♃] 43	15 [♄] 9	26 [♅] 45	19 [♆] 2	19 [♇] 51	4 [♈] 23	4 [♉] 14	2 [♊] 15	8 [♋] 21								
T16	20 3 32	29 [☉] 54'19	14 [☽] 54	27 [♀] 8	13 [♁] 18	26 [♂] 9	29 [♃] 53	15 [♄] 16	26 [♅] 43	19 [♆] 4	19 [♇] 52	4 [♈] 21	4 [♉] 10	2 [♊] 22	8 [♋] 20								
W17	20 7 28	0 [☉] 51'46	29 [☽] 1	28 [♀] 0	14 [♁] 24	26 [♂] 42	0 [♂] 3	15 [♄] 24	26 [♅] 41	19 [♆] 6	19 [♇] 53	4 [♈] 20	4 [♉] 7	2 [♊] 29	8 [♋] 20								
T18	20 11 25	1 [☉] 49'14	12 [☽] 56	28 [♀] 49	15 [♁] 30	27 [♂] 16	0 [♂] 13	15 [♄] 31	26 [♅] 38	19 [♆] 7	19 [♇] 54	4 [♈] 20	4 [♉] 4	2 [♊] 35	8 [♋] 19								
F19	20 15 22	2 [☉] 46'42	26 [☽] 38	29 [♀] 35	16 [♁] 36	27 [♂] 49	0 [♂] 23	15 [♄] 39	26 [♅] 36	19 [♆] 9	19 [♇] 55	4 [♈] 19	4 [♉] 1	2 [♊] 42	8 [♋] 18								
S20	20 19 18	3 [☉] 44'11	10 [☽] 37	0 [♀] 17	17 [♁] 42	28 [♂] 23	0 [♂] 33	15 [♄] 46	26 [♅] 33	19 [♆] 11	19 [♇] 55	4 [♈] 16	3 [♉] 58	2 [♊] 49	8 [♋] 17								
S21	20 23 15	4 [☉] 41'41	23 [☽] 29	0 [♀] 56	18 [♁] 48	28 [♂] 57	0 [♂] 42	15 [♄] 54	26 [♅] 31	19 [♆] 13	19 [♇] 56	4 [♈] 10	3 [♉] 55	2 [♊] 55	8 [♋] 17								
M22	20 27 11	5 [☉] 39'13	6 [☽] 37	1 [♀] 30	19 [♁] 54	29 [♂] 31	0 [♂] 52	16 [♄] 1	26 [♅] 29	19 [♆] 14	19 [♇] 57	4 [♈] 2	3 [♉] 51	3 [♊] 2	8 [♋] 16								
T23	20 31 8	6 [☉] 36'45	19 [☽] 34	2 [♀] 1	20 [♁] 59	0 [♂] 51	1 [♂] 1	16 [♄] 9	26 [♅] 26	19 [♆] 16	19 [♇] 58	3 [♈] 51	3 [♉] 48	3 [♊] 9	8 [♋] 15								
W24	20 35 4	7 [☉] 34'18	2 [☽] 19	2 [♀] 27	22 [♁] 4	0 [♂] 40	1 [♂] 10	16 [♄] 16	26 [♅] 24	19 [♆] 18	19 [♇] 59	3 [♈] 38	3 [♉] 45	3 [♊] 15	8 [♋] 14								
T25	20 39 1	8 [☉] 31'52	14 [☽] 51	2 [♀] 49	23 [♁] 9	1 [♂] 15	1 [♂] 19	16 [♄] 24	26 [♅] 22	19 [♆] 19	20 [♇] 0	3 [♈] 25	3 [♉] 42	3 [♊] 22	8 [♋] 13								
F26	20 42 57	9 [☉] 29'28	27 [☽] 11	3 [♀] 5	24 [♁] 14	1 [♂] 49	1 [♂] 28	16 [♄] 32	26 [♅] 19	19 [♆] 21	20 [♇] 2	3 [♈] 12	3 [♉] 39	3 [♊] 29	8 [♋] 12								
S27	20 46 54	10 [☉] 27'04	9 [☽] 20	3 [♀] 17	25 [♁] 18	2 [♂] 25	1 [♂] 37	16 [♄] 39	26 [♅] 17	19 [♆] 22	20 [♇] 3	3 [♈] 1	3 [♉] 36	3 [♊] 35	8 [♋] 10								
S28	20 50 51	11 [☉] 24'43	21 [☽] 19	3 [♀] 24	26 [♁] 23	3 [♂] 0	1 [♂] 46	16 [♄] 47	26 [♅] 15	19 [♆] 24	20 [♇] 4	2 [♈] 53	3 [♉] 32	3 [♊] 42	8 [♋] 9								
M29	20 54 47	12 [☉] 22'22	3 [☽] 10	3 [♀] R26	27 [♁] 27	3 [♂] 35	1 [♂] 54	16 [♄] 54	26 [♅] 13	19 [♆] 25	20 [♇] 5	2 [♈] 47	3 [♉] 29	3 [♊] 49	8 [♋] 8								
T30	20 58 44	13 [☉] 20'04	14 [☽] 58	3 [♀] 22	28 [♁] 31	4 [♂] 11	2 [♂] 3	17 [♄] 2	26 [♅] 10	19 [♆] 27	20 [♇] 6	2 [♈] 44	3 [♉] 26	3 [♊] 55	8 [♋] 7								
W31	21 2 40	14 [☉] 17'46	26 [☽] 47	3 [♀] 12	29 [♁] 34	4 [♂] 14	2 [♂] 11	17 [♄] 10	26 [♅] 8	19 [♆] 28	20 [♇] 7	2 [♈] 43	3 [♉] 23	4 [♊] 2	8 [♋] 5								

Delta T = 10m13s

Julian Calendar 1 July 1241 == Greg. Calendar 8 July 1241

AUGUST 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	21 6 37	15 [☉] 15'31	8 [☽] 41	2 [♀] R56	0 [♁] 38	5 [♂] 23	2 [♂] 19	17 [♄] 17	26 [♅] R 6	19 [♆] 30	20 [♇] 9	2 [♈] 43	3 [♉] 20	4 [♊] 9	8 [♋] R 4								
F 2	21 10 33	16 [☉] 13'17	20 [☽] 47	2 [♀] 35	1 [♁] 41	5 [♂] 59	2 [♂] 27	17 [♄] 25	26 [♅] 4	19 [♆] 31	20 [♇] 10	2 [♈] R43	3 [♉] 16	4 [♊] 15	8 [♋] 3								
S 3	21 14 30	17 [☉] 11'05	3 [☽] 11	2 [♀] 8	2 [♁] 44	6 [♂] 36	2 [♂] 35	17 [♄] 33	26 [♅] 1	19 [♆] 33	20 [♇] 11	2 [♈] 42	3 [♉] 13	4 [♊] 22	8 [♋] 1								
S 4	21 18 26	18 [☉] 8'55	15 [☽] 52	1 [♀] 36	3 [♁] 47	7 [♂] 12	2 [♂] 43	17 [♄] 40	25 [♅] 59	19 [♆] 34	20 [♇] 13	2 [♈] 39	3 [♉] 10	4 [♊] 29	8 [♋] 0								
M 5	21 22 23	19 [☉] 6'47	29 [☽] 1	0 [♀] 58	4 [♁] 49	7 [♂] 49	2 [♂] 51	17 [♄] 48	25 [♅] 57	19 [♆] 35	20 [♇] 14	2 [♈] 34	3 [♉] 7	4 [♊] 35	7 [♋] 58								
T 6	21 26 20	20 [☉] 4'40	12 [☽] 38	0 [♀] 16	5 [♁] 52	8 [♂] 26	2 [♂] 58	17 [♄] 55	25 [♅] 55	19 [♆] 37	20 [♇] 16	2 [♈] 26	3 [♉] 4	4 [♊] 42	7 [♋] 56								
W 7	21 30 16	21 [☉] 2'35	26 [☽] 42	29 [♀] 29	6 [♁] 54	9 [♂] 3	3 [♂] 6	18 [♄] 3	25 [♅] 53	19 [♆] 38	20 [♇] 17	2 [♈] 17	3 [♉] 1	4 [♊] 49	7 [♋] 55								
T 8	21 34 13	22 [☉] 0'32	11 [☽] 10	28 [♀] 39	7 [♁] 55	9 [♂] 41	3 [♂] 13	18 [♄] 11	25 [♅] 51	19 [♆] 39	20 [♇] 19	2 [♈] 6	2 [♉] 57	4 [♊] 55	7 [♋] 53								
F 9	21 38 9	22 [☉] 58'30	25 [☽] 56	27 [♀] 46	8 [♁] 57	10 [♂] 18	3 [♂] 20	18 [♄] 18	25 [♅] 49	19 [♆] 40	20 [♇] 20	1 [♈] 56	2 [♉] 54	5									

SWISS EPHEMERIS for the year 1241

SEPTEMBER 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
S 1	23 8 50	15 ^h 19'13"	24 ^h 11'12"	28 ^h 02'23"	0 ^h 14'41"	25 ^h 11'21"	5 ^h 11'18"	21 ^h 02'10"	25 ^h 02'10"	20 ^h 11'00"	21 ^h 02'02"	0 ^h 02'25"	1 ^h 08'41"	7 ^h 03'35"	7 ^h 01'01"
M 2	23 12 47	16 ^h 17'54"	7 ^h 05'17"	29 ^h 04'49"	1 ^h 03'32"	26 ^h 02'02"	5 ^h 02'21"	21 ^h 01'17"	25 ^h 03'09"	20 ^h 01'01"	21 ^h 01'04"	0 ^h 02'23"	1 ^h 03'38"	7 ^h 04'42"	6 ^h 03'58"
T 3	23 16 43	17 ^h 16'37"	20 ^h 05'50"	1 ^h 02'21"	2 ^h 02'21"	26 ^h 04'43"	5 ^h 02'23"	21 ^h 02'24"	25 ^h 03'08"	20 ^h 01'01"	21 ^h 01'06"	0 ^h 01'19"	1 ^h 03'35"	7 ^h 04'48"	6 ^h 05'56"
W 4	23 20 40	18 ^h 15'23"	4 ^h 05'52"	2 ^h 02'56"	3 ^h 03'10"	27 ^h 02'24"	5 ^h 02'26"	21 ^h 03'31"	25 ^h 03'06"	20 ^h 02'02"	21 ^h 01'08"	0 ^h 01'14"	1 ^h 03'32"	7 ^h 05'55"	6 ^h 06'53"
T 5	23 24 36	19 ^h 14'10"	19 ^h 22'43"	4 ^h 03'34"	3 ^h 03'59"	28 ^h 02'05"	5 ^h 02'28"	21 ^h 03'38"	25 ^h 03'05"	20 ^h 02'02"	21 ^h 01'10"	0 ^h 01'08"	1 ^h 02'28"	8 ^h 02'02"	6 ^h 05'51"
F 6	23 28 33	20 ^h 13'00"	4 ^h 02'14"	6 ^h 01'15"	4 ^h 04'46"	28 ^h 04'47"	5 ^h 03'31"	21 ^h 04'45"	25 ^h 03'04"	20 ^h 02'02"	21 ^h 01'12"	0 ^h 01'01"	1 ^h 02'25"	8 ^h 03'08"	6 ^h 04'48"
S 7	23 32 29	21 ^h 11'52"	19 ^h 02'21"	7 ^h 05'58"	5 ^h 03'33"	29 ^h 02'28"	5 ^h 03'33"	21 ^h 05'52"	25 ^h 03'03"	20 ^h 03'03"	21 ^h 01'14"	29 ^h 03'56"	1 ^h 02'22"	8 ^h 03'15"	6 ^h 04'45"
S 8	23 36 26	22 ^h 10'46"	4 ^h 02'32"	9 ^h 04'43"	6 ^h 01'19"	0 ^h 02'10"	5 ^h 03'35"	21 ^h 05'59"	25 ^h 03'02"	20 ^h 03'03"	21 ^h 01'16"	29 ^h 05'52"	1 ^h 01'19"	8 ^h 02'22"	6 ^h 04'43"
M 9	23 40 22	23 ^h 09'42"	19 ^h 03'39"	11 ^h 02'29"	7 ^h 01'04"	0 ^h 02'52"	5 ^h 03'36"	22 ^h 02'06"	25 ^h 03'01"	20 ^h 03'03"	21 ^h 01'19"	29 ^h 05'50"	1 ^h 01'16"	8 ^h 02'28"	6 ^h 04'40"
T 10	23 44 19	24 ^h 08'40"	4 ^h 01'33"	13 ^h 01'16"	7 ^h 04'48"	1 ^h 03'33"	5 ^h 03'38"	22 ^h 02'13"	25 ^h 03'01"	20 ^h 03'03"	21 ^h 01'21"	29 ^h 05'50"	1 ^h 01'13"	8 ^h 03'35"	6 ^h 03'37"
W11	23 48 16	25 ^h 07'39"	19 ^h 01'06"	15 ^h 01'03"	8 ^h 03'32"	2 ^h 01'15"	5 ^h 03'39"	22 ^h 02'20"	25 ^h 03'00"	20 ^h 04'04"	21 ^h 01'23"	29 ^h 05'51"	1 ^h 01'09"	8 ^h 04'42"	6 ^h 03'34"
T 12	23 52 12	26 ^h 06'41"	3 ^h 02'16"	16 ^h 05'52"	9 ^h 01'14"	2 ^h 02'57"	5 ^h 04'40"	22 ^h 02'27"	24 ^h 05'59"	20 ^h 04'04"	21 ^h 01'25"	29 ^h 05'52"	1 ^h 01'06"	8 ^h 04'48"	6 ^h 03'32"
F 13	23 56 9	27 ^h 05'44"	17 ^h 01'02"	18 ^h 04'40"	9 ^h 05'55"	3 ^h 04'40"	5 ^h 04'41"	22 ^h 02'33"	24 ^h 05'58"	20 ^h 04'04"	21 ^h 01'28"	29 ^h 05'54"	1 ^h 01'03"	8 ^h 05'55"	6 ^h 02'29"
S 14	0 0 5	28 ^h 04'49"	0 ^h 03'24"	20 ^h 02'28"	10 ^h 03'35"	4 ^h 02'22"	5 ^h 04'42"	22 ^h 02'40"	24 ^h 05'57"	20 ^h 04'04"	21 ^h 01'30"	29 ^h 05'54"	1 ^h 01'00"	9 ^h 02'02"	6 ^h 02'26"
S 15	0 4 2	29 ^h 03'56"	13 ^h 02'24"	22 ^h 02'16"	11 ^h 01'14"	5 ^h 01'04"	5 ^h 04'42"	22 ^h 02'47"	24 ^h 05'57"	20 ^h 04'04"	21 ^h 01'32"	29 ^h 05'53"	0 ^h 02'57"	9 ^h 01'08"	6 ^h 02'23"
M16	0 7 58	0 ^h 02'30"	26 ^h 01'07"	24 ^h 01'04"	11 ^h 05'52"	5 ^h 04'47"	5 ^h 04'42"	22 ^h 02'53"	24 ^h 05'56"	20 ^h 04'04"	21 ^h 01'34"	29 ^h 05'51"	0 ^h 02'53"	9 ^h 01'15"	6 ^h 02'21"
T 17	0 11 55	1 ^h 02'16"	8 ^h 03'34"	25 ^h 02'52"	12 ^h 02'29"	6 ^h 02'29"	5 ^h 04'42"	23 ^h 02'00"	24 ^h 05'56"	20 ^h 04'04"	21 ^h 01'37"	29 ^h 05'47"	0 ^h 02'50"	9 ^h 02'22"	6 ^h 01'18"
W18	0 15 51	2 ^h 01'28"	20 ^h 04'49"	27 ^h 03'39"	13 ^h 01'04"	7 ^h 01'12"	5 ^h 04'42"	23 ^h 02'06"	24 ^h 05'55"	20 ^h 04'04"	21 ^h 01'39"	29 ^h 05'43"	0 ^h 02'47"	9 ^h 02'28"	6 ^h 01'15"
T 19	0 19 48	3 ^h 00'42"	2 ^h 02'54"	29 ^h 02'25"	13 ^h 03'38"	7 ^h 05'55"	5 ^h 04'42"	23 ^h 02'13"	24 ^h 05'55"	20 ^h 04'04"	21 ^h 01'41"	29 ^h 05'38"	0 ^h 02'44"	9 ^h 03'35"	6 ^h 01'12"
F 20	0 23 45	3 ^h 59'58"	14 ^h 05'52"	1 ^h 02'11"	14 ^h 01'11"	8 ^h 03'37"	5 ^h 04'41"	23 ^h 02'19"	24 ^h 05'54"	20 ^h 04'04"	21 ^h 01'44"	29 ^h 05'33"	0 ^h 02'41"	9 ^h 04'42"	6 ^h 01'09"
S 21	0 27 41	4 ^h 59'16"	2 ^h 05'44"	2 ^h 05'56"	14 ^h 04'42"	9 ^h 02'20"	5 ^h 04'41"	23 ^h 02'26"	24 ^h 05'54"	20 ^h 03'03"	21 ^h 01'46"	29 ^h 05'30"	0 ^h 02'38"	9 ^h 04'48"	6 ^h 01'07"
S 22	0 31 38	5 ^h 58'36"	8 ^h 03'34"	4 ^h 04'40"	15 ^h 01'12"	10 ^h 01'03"	5 ^h 04'40"	23 ^h 02'32"	24 ^h 05'54"	20 ^h 03'03"	21 ^h 01'48"	29 ^h 05'27"	0 ^h 02'34"	9 ^h 05'55"	6 ^h 01'04"
M23	0 35 34	6 ^h 57'59"	20 ^h 02'22"	6 ^h 02'24"	15 ^h 04'40"	10 ^h 04'46"	5 ^h 03'39"	23 ^h 02'38"	24 ^h 05'54"	20 ^h 03'03"	21 ^h 01'51"	29 ^h 05'25"	0 ^h 02'31"	10 ^h 01'01"	6 ^h 01'01"
T 24	0 39 31	7 ^h 57'23"	2 ^h 01'11"	8 ^h 01'07"	16 ^h 01'07"	11 ^h 03'30"	5 ^h 03'37"	23 ^h 02'44"	24 ^h 05'53"	20 ^h 03'03"	21 ^h 01'53"	29 ^h 05'25"	0 ^h 02'28"	10 ^h 01'08"	5 ^h 05'58"
W25	0 43 27	8 ^h 56'50"	14 ^h 01'03"	9 ^h 05'50"	16 ^h 02'32"	12 ^h 01'13"	5 ^h 03'36"	23 ^h 02'51"	24 ^h 05'53"	20 ^h 02'02"	21 ^h 01'55"	29 ^h 05'26"	0 ^h 02'25"	10 ^h 01'15"	5 ^h 05'55"
T 26	0 47 24	9 ^h 56'18"	26 ^h 02'02"	11 ^h 03'32"	16 ^h 05'56"	12 ^h 05'56"	5 ^h 03'34"	23 ^h 02'57"	24 ^h 05'53"	20 ^h 02'02"	21 ^h 01'58"	29 ^h 05'27"	0 ^h 02'22"	10 ^h 02'21"	5 ^h 05'53"
F 27	0 51 20	10 ^h 55'50"	8 ^h 02'10"	13 ^h 01'13"	17 ^h 01'17"	13 ^h 04'40"	5 ^h 03'32"	24 ^h 02'03"	24 ^h 05'53"	20 ^h 02'02"	22 ^h 01'00"	29 ^h 05'29"	0 ^h 02'18"	10 ^h 02'28"	5 ^h 05'50"
S 28	0 55 17	11 ^h 55'23"	20 ^h 02'32"	14 ^h 05'53"	17 ^h 03'37"	14 ^h 02'23"	5 ^h 03'30"	24 ^h 02'09"	24 ^h 05'53"	20 ^h 01'01"	22 ^h 01'03"	29 ^h 05'30"	0 ^h 02'15"	10 ^h 03'35"	5 ^h 04'47"
S 29	0 59 13	12 ^h 54'59"	3 ^h 02'11"	16 ^h 03'33"	17 ^h 05'55"	15 ^h 01'07"	5 ^h 02'28"	24 ^h 02'15"	24 ^h 05'53"	20 ^h 01'01"	22 ^h 01'05"	29 ^h 05'31"	0 ^h 02'12"	10 ^h 04'41"	5 ^h 04'44"
M30	1 3 10	13 ^h 54'37"	16 ^h 02'12"	18 ^h 02'12"	18 ^h 01'11"	15 ^h 02'51"	5 ^h 02'25"	24 ^h 02'20"	24 ^h 05'53"	20 ^h 01'01"	22 ^h 01'07"	29 ^h 05'31"	0 ^h 02'09"	10 ^h 04'48"	5 ^h 04'42"

Delta T = 10m12s Julian Calendar 1 Sept. 1241 == Greg. Calendar 8 Sept. 1241

OCTOBER 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♁	♂	♃	♄
T 1	1 7 7	14 ^h 54'17"	29 ^h 03'37"	19 ^h 05'50"	18 ^h 01'25"	16 ^h 02'35"	5 ^h 02'22"	24 ^h 02'26"	24 ^h 05'53"	20 ^h 01'00"	22 ^h 01'10"	29 ^h 05'31"	0 ^h 02'06"	10 ^h 03'55"	5 ^h 03'39"
W 2	1 11 3	15 ^h 54'00"	13 ^h 02'28"	21 ^h 02'28"	18 ^h 03'37"	17 ^h 01'19"	5 ^h 02'19"	24 ^h 02'32"	24 ^h 05'54"	20 ^h 01'00"	22 ^h 01'12"	29 ^h 05'30"	0 ^h 02'03"	11 ^h 01'01"	5 ^h 03'36"
T 3	1 15 0	16 ^h 53'45"	27 ^h 04'46"	23 ^h 01'05"	18 ^h 04'47"	18 ^h 01'03"	5 ^h 01'16"	24 ^h 02'38"	24 ^h 05'54"	19 ^h 05'59"	22 ^h 01'15"	29 ^h 05'28"	29 ^h 05'59"	11 ^h 01'08"	5 ^h 03'33"
F 4	1 18 56	17 ^h 53'32"	12 ^h 02'27"	24 ^h 04'41"	18 ^h 05'54"	18 ^h 04'47"	5 ^h 01'13"	24 ^h 02'43"	24 ^h 05'54"	19 ^h 05'58"	22 ^h 01'17"	29 ^h 05'27"	29 ^h 05'56"	11 ^h 01'15"	5 ^h 03'31"
S 5	1 22 53	18 ^h 53'22"	27 ^h 02'28"	26 ^h 01'17"	19 ^h 01'00"	19 ^h 03'31"	5 ^h 01'10"	24 ^h 02'49"	24 ^h 05'54"	19 ^h 05'58"	22 ^h 01'19"	29 ^h 05'25"	29 ^h 05'53"	11 ^h 02'21"	5 ^h 02'28"
S 6	1 26 49	19 ^h 53'13"	12 ^h 02'39"	27 ^h 05'53"	19 ^h 01'03"	20 ^h 01'15"	5 ^h 01'06"	24 ^h 02'54"	24 ^h 05'55"	19 ^h 05'57"	22 ^h 01'22"	29 ^h 05'25"	29 ^h 05'50"	11 ^h 02'28"	5 ^h 02'25"
M 7	1 30 46	20 ^h 53'07"	27 ^h 05'51"	29 ^h 02'28"	19 ^h 01'03"	20 ^h 05'59"	5 ^h 01'02"	25 ^h 02'00"	24 ^h 05'55"	19 ^h 05'56"	22 ^h 01'24"	29 ^h 05'24"	29 ^h 05'47"	11 ^h 03'35"	5 ^h 02'22"
T 8	1 34 42	21 ^h 53'02"	12 ^h 01'54"	1 ^h 01'02"	19 ^h 01'02"	21 ^h 04'44"	4 ^h 05'58"	25 ^h 02'05"	24 ^h 05'56"	19 ^h 05'56"	22 ^h 01'27"	29 ^h 05'25"	29 ^h 05'44"	11 ^h 04'41"	5 ^h 02'20"
W 9	1 38 39	22 ^h 53'00"	27 ^h 04'41"	2 ^h 03'36"	18 ^h 05'58"	22 ^h 02'28"	4 ^h 05'54"	25 ^h 02'10"	24 ^h 05'56"	19 ^h 05'55"	22 ^h 01'29"	29 ^h 05'25"	29 ^h 05'40"	11 ^h 04'48"	5 ^h 01'17"
T 10	1 42 36	23 ^h 52'59"	12 ^h 02'07"	4 ^h 01'09"	18 ^h 05'52"	23 ^h 01'13"	4 ^h 04'49"	25 ^h 01'15"	24 ^h 05'57"	19 ^h 05'54"	22 ^h 01'32"	29 ^h 05'26"	29 ^h 05'37"	11 ^h 05'55"	5 ^h 01'15"
F 11	1 46 32	24 ^h 53'00"	26 ^h 02'02"	5 ^h 04'42"	18 ^h 04'43"	23 ^h 02'57"	4 ^h 04'45"	25 ^h 02'20"	24 ^h 05'58"	19 ^h 05'53"	22 ^h 01'34"	29 ^h 05'26"	29 ^h 05'34"	12 ^h 01'01"	5 ^h 01'12"
S 12	1 50 29														

SWISS EPHEMERIS for the year 1241

NOVEMBER 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	3 9 20	15♁59'48	21♏22	6♁12	8°R42	9♁48	2°R33	26♁47	25♁23	19°R30	23♁24	29♁22	28♁27	14♁21	4°R24		
S 2	3 13 16	17° 0'27	6♁ 2	7°30	8♁ 8	10°34	2♁25	26°51	25°25	19♁29	23°26	29°24	28°24	14°28	4°Y22		
S 3	3 17 13	18° 1'08	20°54	8°47	7°36	11°20	2°17	26°54	25°27	19°28	23°29	29°24	28°21	14°34	4°20		
M 4	3 21 9	19° 1'50	5♁53	10° 2	7° 6	12° 6	2°10	26°57	25°29	19°26	23°31	29°R24	28°18	14°41	4°18		
T 5	3 25 6	20° 2'34	20°50	11°15	6°37	12°52	2° 2	26°59	25°31	19°25	23°33	29°23	28°15	14°47	4°17		
W 6	3 29 3	21° 3'19	5♁37	12°26	6°10	13°38	1°54	27° 2	25°33	19°23	23°35	29°21	28°11	14°54	4°15		
T 7	3 32 59	22° 4'06	20° 6	13°34	5°45	14°24	1°46	27° 5	25°35	19°22	23°37	29°18	28° 8	15° 1	4°13		
F 8	3 36 56	23° 4'54	4♁11	14°39	5°22	15°10	1°38	27° 7	25°37	19°20	23°40	29°15	28° 5	15° 7	4°12		
S 9	3 40 52	24° 5'43	17°50	15°41	5° 1	15°56	1°30	27°10	25°39	19°19	23°42	29°11	28° 2	15°14	4°10		
S 10	3 44 49	25° 6'33	1♁ 2	16°39	4°42	16°43	1°22	27°12	25°41	19°17	23°44	29° 8	27°59	15°21	4° 9		
M11	3 48 45	26° 7'24	13°50	17°33	4°26	17°29	1°14	27°14	25°43	19°16	23°46	29° 6	27°56	15°27	4° 7		
T12	3 52 42	27° 8'16	26°15	18°21	4°12	18°15	1° 6	27°17	25°45	19°14	23°48	29°D 6	27°52	15°34	4° 6		
W13	3 56 38	28° 9'08	8♁24	19° 4	4° 1	19° 1	0°57	27°19	25°47	19°13	23°50	29° 6	27°49	15°41	4° 4		
T14	4 0 35	29°10'02	20°21	19°40	3°52	19°48	0°49	27°21	25°49	19°11	23°52	29° 7	27°46	15°47	4° 3		
F15	4 4 32	0♁10'56	2♁10	20° 9	3°46	20°34	0°41	27°22	25°52	19°10	23°55	29° 9	27°43	15°54	4° 2		
S16	4 8 28	1°11'51	13°57	20°31	3°42	21°20	0°33	27°24	25°54	19° 8	23°57	29°11	27°40	16° 1	4° 0		
S17	4 12 25	2°12'47	25°46	20°43	3°D41	22° 7	0°25	27°26	25°56	19° 6	23°59	29°R12	27°36	16° 7	3°59		
M18	4 16 21	3°13'44	7♁41	20°R45	3°42	22°53	0°16	27°27	25°59	19° 5	24° 1	29°12	27°33	16°14	3°58		
T19	4 20 18	4°14'42	19°44	20°37	3°45	23°40	0° 8	27°28	26° 1	19° 3	24° 3	29°10	27°30	16°21	3°57		
W20	4 24 14	5°15'41	1♁57	20°18	3°51	24°26	0° 0	27°30	26° 4	19° 2	24° 5	29° 6	27°27	16°27	3°56		
T21	4 28 11	6°16'41	14°23	19°48	3°59	25°13	29♁52	27°31	26° 6	19° 0	24° 7	29° 0	27°24	16°34	3°55		
F22	4 32 7	7°17'41	27° 1	19° 6	4°10	25°59	29°44	27°32	26° 9	18°58	24° 8	28°54	27°21	16°41	3°54		
S23	4 36 4	8°18'43	9♁52	18°13	4°23	26°46	29°36	27°33	26°12	18°57	24°10	28°46	27°17	16°47	3°53		
S24	4 40 1	9°19'46	22°55	17°11	4°37	27°32	29°28	27°34	26°14	18°55	24°12	28°39	27°14	16°54	3°52		
M25	4 43 57	10°20'49	6♁11	15°59	4°54	28°19	29°20	27°34	26°17	18°53	24°14	28°34	27°11	17° 0	3°52		
T26	4 47 54	11°21'54	19°40	14°42	5°13	29° 6	29°12	27°35	26°20	18°52	24°16	28°29	27° 8	17° 7	3°51		
W27	4 51 50	12°22'59	3♁21	13°20	5°34	29°52	29° 5	27°35	26°22	18°50	24°18	28°27	27° 5	17°14	3°50		
T28	4 55 47	13°24'05	17°14	11°57	5°57	0♁39	28°57	27°36	26°25	18°48	24°19	28°D27	27° 2	17°20	3°50		
F29	4 59 43	14°25'12	1♁20	10°36	6°22	1°25	28°49	27°36	26°28	18°47	24°21	28°28	26°58	17°27	3°49		
S30	5 3 40	15♁26'21	15♁38	9♁18	6♁48	2♁12	28♁42	27°36	26°31	18♁45	24♁23	28♁29	26♁55	17♁34	3♁49		

Delta T = 10m12s Julian Calendar 1 Nov. 1241 == Greg. Calendar 8 Nov. 1241

DECEMBER 1241 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	5 7 37	16♁27'29	0♁ 5	8°R 8	7♁17	2♁59	28°R34	27°R36	26♁34	18°R43	24♁25	28°R30	26♁52	17♁40	3°R48		
M 2	5 11 33	17°28'39	14°39	7♁ 6	7°47	3°46	28♁27	27°36	26°36	18♁41	24°26	28♁28	26°49	17°47	3°Y48		
T 3	5 15 30	18°29'50	29°13	6°13	8°18	4°32	28°20	27°36	26°39	18°40	24°28	28°25	26°46	17°54	3°48		
W 4	5 19 26	19°31'01	13♁43	5°31	8°51	5°19	28°12	27°36	26°42	18°38	24°30	28°19	26°42	18° 0	3°48		
T 5	5 23 23	20°32'12	28° 0	5° 0	9°25	6° 6	28° 5	27°35	26°45	18°36	24°31	28°11	26°39	18° 7	3°47		
F 6	5 27 19	21°33'24	12♁ 1	4°39	10° 1	6°52	27°59	27°35	26°48	18°35	24°33	28° 2	26°36	18°14	3°47		
S 7	5 31 16	22°34'36	25°39	4°29	10°38	7°39	27°52	27°34	26°51	18°33	24°34	27°52	26°33	18°20	3°47		
S 8	5 35 12	23°35'48	8♁54	4°D29	11°17	8°26	27°45	27°34	26°54	18°31	24°36	27°43	26°30	18°27	3°D47		
M 9	5 39 9	24°37'00	21°44	4°38	11°56	9°13	27°39	27°33	26°57	18°30	24°37	27°36	26°27	18°34	3°47		
T10	5 43 6	25°38'12	4♁13	4°55	12°37	9°59	27°32	27°32	27° 1	18°28	24°39	27°31	26°23	18°40	3°47		
W11	5 47 2	26°39'24	16°24	5°20	13°19	10°46	27°26	27°31	27° 4	18°26	24°40	27°29	26°20	18°47	3°48		
T12	5 50 59	27°40'36	28°22	5°52	14° 2	11°33	27°20	27°29	27° 7	18°25	24°42	27°D28	26°17	18°53	3°48		
F13	5 54 55	28°41'47	10♁11	6°30	14°47	12°20	27°14	27°28	27°10	18°23	24°43	27°28	26°14	19° 0	3°48		
S14	5 58 52	29°42'59	21°58	7°14	15°32	13° 7	27° 8	27°27	27°13	18°21	24°44	27°R29	26°11	19° 7	3°48		
S15	6 2 48	0♁44'10	3♁49	8° 2	16°18	13°53	27° 2	27°25	27°16	18°20	24°45	27°29	26° 8	19°13	3°49		
M16	6 6 45	1°45'21	15°47	8°55	17° 5	14°40	26°57	27°24	27°20	18°18	24°47	27°27	26° 4	19°20	3°49		
T17	6 10 41	2°46'31	27°56	9°52	17°53	15°27	26°52	27°22	27°23	18°16	24°48	27°23	26° 1	19°27	3°50		
W18	6 14 38	3°47'42	10♁21	10°53	18°42	16°14	26°46	27°20	27°26	18°15	24°49	27°16	25°58	19°33	3°50		
T19	6 18 35	4°48'52	23° 2	11°56	19°32	17° 0	26°41	27°18	27°30	18°13	24°50	27° 6	25°55	19°40	3°51		
F20	6 22 31	5°50'02	6♁ 1	13° 2	20°22	17°47	26°37	27°16	27°33	18°11	24°51	26°55	25°52	19°47	3°52		
S21	6 26 28	6°51'12	19°16	14°11	21°14	18°34	26°32	27°14	27°36	18°10	24°53	26°42	25°48	19°53	3°52		
S22	6 30 24	7°52'21	2♁44	15°22	22° 6	19°20	26°28	27°12	27°40	18° 8	24°54	26°30	25°45	20° 0	3°53		
M23	6 34 21	8°53'30	16°24	16°34	22°59	20° 7	26°23	27°10	27°43	18° 7	24°55	26°20	25°42	20° 7	3°54		
T24	6 38 17	9°54'40	0♁13	17°49	23°52	20°54	26°19	27° 7	27°46	18° 5	24°56	26°12	25°39	20°13	3°55		
W25	6 42 14	10°55'48	14° 8	19° 5	24°46	21°41	26°15	27° 5	27°50	18° 4	24°57	26° 6	25°36	20°20	3°56		
T26	6 46 11	11°56'57	28° 7	20°23	25°41	22°27	26°12	27° 2	27°53	18° 2	24°58	26° 4	25°33	20°27	3°57		
F27	6 50 7	12°58'06	12♁10	21°42	26°37	23°14	26° 8	26°59	27°56	18° 0	24°58	26°D 3	25°29	20°33	3°58		
S28	6 54 4	13°59'14	26°15	23° 2	27°33	24° 1	26° 5	26°57	28° 0	17°59	24°59	26°R 3	25°26	20°40	3°59		
S29	6 58 0	15° 0'22	10♁22	24°24	28°29	24°47	26° 2	26°54	28° 3	17°57	25° 0	26° 3	25°23	20°46	4° 0		
M30	7 1 57	16° 1'30	24°30	25°46	29°26	25°34	25°59	26°51	28° 7	17°56	25° 1	26° 0	25°20	20°53	4° 1		
T31	7 5 53	17♁ 2'38	8♁37	27♁ 9	0♁24	26♁20	25♁56	26♁48	28♁10	17♁55	25♁ 2	25♁55	25♁17	21♁ 0	4♁ 3		

Delta T = 10m12s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]