

SWISS EPHEMERIS for the year 683

JANUARY 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	6 51 48	13°35'26	13°36	24°24	5°44	28°21	28°0	27°R15	15°R21	17°37	20°R35	8°R42	7°R18	14°8	15°28								
F 2	6 55 45	14°46'29	25°54	25°50	6°59	29° 7	28° 9	27°Ω12	15°Ω20	17°39	20°II34	8°Ω34	7°14	14°15	15°30								
S 3	6 59 41	15°47'32	8°Ω 4	27°17	8°14	29°53	28°17	27° 9	15°19	17°42	20°33	8°23	7°11	14°22	15°32								
S 4	7 3 38	16°48'34	20° 7	28°45	9°30	0°Ω39	28°26	27° 6	15°18	17°44	20°32	8°10	7° 8	14°28	15°34								
M 5	7 7 34	17°49'35	2°Ω 6	0°Ω13	10°45	1°25	28°35	27° 3	15°17	17°46	20°31	7°57	7° 5	14°35	15°36								
T 6	7 11 31	18°50'35	13°59	1°43	12° 0	2°11	28°43	27° 0	15°16	17°48	20°29	7°43	7° 2	14°42	15°38								
W 7	7 15 28	19°51'34	25°51	3°13	13°16	2°57	28°53	26°57	15°16	17°51	20°28	7°31	6°59	14°48	15°41								
T 8	7 19 24	20°52'31	7°Ω41	4°43	14°31	3°44	29° 2	26°53	15°15	17°53	20°27	7°20	6°55	14°55	15°43								
F 9	7 23 21	21°53'27	19°34	6°15	15°46	4°30	29°11	26°50	15°15	17°55	20°26	7°13	6°52	15° 2	15°45								
S 10	7 27 17	22°54'22	1°Ω33	7°47	17° 2	5°16	29°20	26°46	15°14	17°57	20°25	7° 9	6°49	15° 9	15°48								
S 11	7 31 14	23°55'15	13°43	9°20	18°17	6° 3	29°30	26°43	15°13	18° 0	20°24	7° 7	6°46	15°15	15°50								
M12	7 35 10	24°56'07	26° 8	10°53	19°32	6°49	29°40	26°39	15°13	18° 2	20°23	7°D 6	6°43	15°22	15°52								
T 13	7 39 7	25°56'57	8°Ω55	12°28	20°47	7°35	29°50	26°35	15°13	18° 4	20°22	7°R 6	6°40	15°29	15°55								
W14	7 43 3	26°57'46	22° 6	14° 3	22° 2	8°22	0°Ω 0	26°32	15°12	18° 7	20°21	7° 6	6°36	15°35	15°57								
T 15	7 47 0	27°58'33	5°II47	15°39	23°18	9° 8	0°10	26°28	15°12	18° 9	20°20	7° 3	6°33	15°42	16° 0								
F 16	7 50 57	28°59'19	19°58	17°15	24°33	9°55	0°20	26°24	15°12	18°11	20°19	6°58	6°30	15°49	16° 2								
S 17	7 54 53	0°Ω 0'03	4°Ω38	18°53	25°48	10°41	0°30	26°20	15°12	18°13	20°19	6°50	6°27	15°56	16° 5								
S 18	7 58 50	1° 0'45	19°41	20°31	27° 3	11°27	0°40	26°16	15°11	18°16	20°18	6°40	6°24	16° 2	16° 7								
M19	8 2 46	2° 1'26	4°Ω58	22°10	28°18	12°14	0°51	26°12	15°11	18°18	20°17	6°28	6°20	16° 9	16°10								
T 20	8 6 43	3° 2'06	20°18	23°50	29°33	13° 1	1° 2	26° 8	15°D11	18°20	20°16	6°17	6°17	16°16	16°13								
W21	8 10 39	4° 2'44	5°II30	25°31	0°Ω49	13°47	1°12	26° 3	15°11	18°22	20°15	6° 7	6°14	16°23	16°15								
T 22	8 14 36	5° 3'21	20°22	27°12	2° 4	14°34	1°23	25°59	15°11	18°24	20°14	5°59	6°11	16°29	16°18								
F 23	8 18 33	6° 3'56	4°Ω50	28°54	3°19	15°20	1°34	25°55	15°12	18°27	20°13	5°54	6° 8	16°36	16°21								
S 24	8 22 29	7° 4'30	18°49	0°Ω38	4°34	16° 7	1°45	25°50	15°12	18°29	20°13	5°52	6° 5	16°43	16°24								
S 25	8 26 26	8° 5'03	2°II22	2°22	5°49	16°53	1°56	25°46	15°12	18°31	20°12	5°52	6° 1	16°49	16°26								
M26	8 30 22	9° 5'35	15°29	4° 7	7° 4	17°40	2° 8	25°42	15°12	18°33	20°11	5°52	5°58	16°56	16°29								
T 27	8 34 19	10° 6'05	28°15	5°53	8°19	18°27	2°19	25°37	15°13	18°35	20°10	5°51	5°55	17° 3	16°32								
W28	8 38 15	11° 6'34	10°Ω44	7°40	9°34	19°14	2°30	25°33	15°13	18°37	20°10	5°48	5°52	17°10	16°35								
T 29	8 42 12	12° 7'02	23° 0	9°28	10°49	20° 0	2°42	25°28	15°13	18°40	20° 9	5°42	5°49	17°16	16°38								
F 30	8 46 8	13° 7'28	5°Ω 6	11°16	12° 4	20°47	2°54	25°23	15°14	18°42	20° 8	5°34	5°46	17°23	16°41								
S 31	8 50 5	14° 7'52	17°Ω 7	13°Ω 6	13°Ω19	21°Ω34	3°Ω 5	25°Ω19	15°Ω15	18°Ω44	20°II 7	5°Ω22	5°Ω42	17°Ω30	16°Ω44								

Delta T = 01h05m31s Julian Calendar 1 Jan. 683 == Greg. Calendar 4 Jan. 683

FEBRUARY 683 C.E.JC

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S 1	8 54 2	15°Ω 8'15	29°Ω 2	14°Ω57	14°Ω34	22°Ω20	3°Ω17	25°R14	15°Ω15	18°Ω46	20°R 7	5°R 9	5°Ω39	17°Ω36	16°Ω47								
M 2	8 57 58	16° 8'36	10°Ω56	16°48	15°49	23° 7	3°29	25°Ω 9	15°16	18°48	20°II 6	4°Ω54	5°36	17°43	16°50								
T 3	9 1 55	17° 8'55	22°47	18°40	17° 4	23°54	3°41	25° 5	15°17	18°50	20° 6	4°39	5°33	17°50	16°53								
W 4	9 5 51	18° 9'13	4°Ω39	20°33	18°19	24°41	3°53	25° 0	15°17	18°52	20° 5	4°26	5°30	17°57	16°56								
T 5	9 9 48	19° 9'28	16°32	22°27	19°34	25°28	4° 5	24°55	15°18	18°54	20° 4	4°15	5°26	18° 3	16°59								
F 6	9 13 44	20° 9'42	28°29	24°21	20°49	26°14	4°17	24°50	15°19	18°56	20° 4	4° 7	5°23	18°10	17° 2								
S 7	9 17 41	21° 9'53	10°Ω32	26°16	22° 4	27° 1	4°30	24°46	15°20	18°58	20° 3	4° 2	5°20	18°17	17° 6								
S 8	9 21 37	22°10'03	22°44	28°12	23°19	27°48	4°42	24°41	15°21	19° 0	20° 3	3°59	5°17	18°24	17° 9								
M 9	9 25 34	23°10'10	5°Ω 9	0°Ω 7	24°34	28°35	4°55	24°36	15°22	19° 2	20° 2	3°D59	5°14	18°30	17°12								
T 10	9 29 30	24°10'15	17°52	2° 3	25°49	29°22	5° 7	24°31	15°23	19° 4	20° 2	3°R59	5°11	18°37	17°15								
W11	9 33 27	25°10'18	0°II58	3°59	27° 4	0°Ω 9	5°20	24°27	15°24	19° 6	20° 1	3°59	5° 7	18°44	17°18								
T 12	9 37 24	26°10'19	14°29	5°54	28°19	0°56	5°32	24°22	15°25	19° 8	20° 1	3°58	5° 4	18°50	17°22								
F 13	9 41 20	27°10'18	28°29	7°48	29°33	1°42	5°45	24°17	15°27	19°10	20° 1	3°54	5° 1	18°57	17°25								
S 14	9 45 17	28°10'14	12°Ω57	9°42	0°Ω48	2°29	5°58	24°12	15°28	19°12	20° 0	3°48	4°58	19° 4	17°28								
S 15	9 49 13	29°10'08	27°50	11°34	2° 3	3°16	6°11	24° 7	15°29	19°14	20° 0	3°40	4°55	19°11	17°31								
M16	9 53 10	0°Ω10'00	13°Ω 2	13°25	3°18	4° 3	6°24	24° 3	15°31	19°15	20° 0	3°30	4°52	19°17	17°35								
T 17	9 57 6	1° 9'50	28°21	15°13	4°32	4°50	6°37	23°58	15°32	19°17	19°59	3°21	4°48	19°24	17°38								
W18	10 1 3	2° 9'37	13°II38	16°59	5°47	5°37	6°50	23°53	15°33	19°19	19°59	3°12	4°45	19°31	17°41								
T 19	10 5 0	3° 9'23	28°40	18°42	7° 2	6°24	7° 3	23°48	15°35	19°21	19°59	3° 6	4°42	19°37	17°45								
F 20	10 8 56	4° 9'07	13°Ω20	20°21	8°17	7°10	7°16	23°44	15°36	19°23	19°59	3° 2	4°39	19°44	17°48								
S 21	10 12 53	5° 8'48	27°32	21°56	9°31	7°57	7°29	23°39	15°38	19°24	19°58	3°D 0	4°36	19°51	17°51								
S 22	10 16 49	6° 8'29	11°II15	23°26	10°46	8°44	7°42	23°35	15°40	19°26	19°58	3° 0	4°32	19°58	17°55								
M23	10 20 46	7° 8'07	24°30	24°51	12° 0	9°31	7°56	23°30	15°41	19°28	19°58	3° 1	4°29	20° 4	17°58								
T 24	10 24 42	8° 7'44	7°Ω20	26°11	13°15	10°18	8° 9	23°25	15°43	19°29	19°58	3°R 2	4°26	20°11	18° 2								
W25	10 28 39	9° 7'18	19°50	27°25	14°30	11° 5	8°23	23°21	15°45	19°31	19°58	3° 1	4°23	20°18	18° 5								
T 26	10 32 35	10° 6'52	2°Ω 4	28°33	15°44	11°52	8°36	23°16	15°47	19°33	19°58	2°58	4°20	20°24	18° 8								
F 27	10 36 32	11° 6'23	14° 7	29°34	16°59	12°39	8°50	23°12	15°49	19°34	19°58	2°53	4°17	20°31	18°12								
S 28	10 40 29	12°Ω 5'52	26°Ω 3	0°Ω28	18°Ω13	13°Ω26	9°Ω 3	23°Ω 7	15°Ω51	19°Ω36	19°II58	2°Ω46	4°Ω13	20°Ω38	18°Ω15								

Delta T = 01h05m30s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 683

MARCH 683 C.E.JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	10 44 25	13♄ 5'20	7♋55	1♃15	19♄28	14♋12	9♃17	23°R 3	15♄53	19♃37	19♂58	2°R38	4♄10	20♋45	18♄19		
M 2	10 48 22	14° 4'45	19°46	1°54	20°42	14°59	9°30	22♂59	15°55	19°39	19°58	2♄28	4° 7	20°51	18°22		
T 3	10 52 18	15° 4'08	1♄38	2°26	21°57	15°46	9°44	22°55	15°57	19°40	19°58	2°19	4° 4	20°58	18°25		
W 4	10 56 15	16° 3'30	13°33	2°50	23°11	16°33	9°58	22°50	15°59	19°42	19°58	2°10	4° 1	21° 5	18°29		
T 5	11 0 11	17° 2'49	25°32	3° 7	24°26	17°20	10°12	22°46	16° 1	19°43	19°58	2° 3	3°57	21°11	18°32		
F 6	11 4 8	18° 2'06	7♃38	3°16	25°40	18° 7	10°25	22°42	16° 3	19°45	19°58	1°58	3°54	21°18	18°36		
S 7	11 8 4	19° 1'21	19°50	3°R17	26°55	18°54	10°39	22°38	16° 5	19°46	19°58	1°55	3°51	21°25	18°39		
S 8	11 12 1	20° 0'34	2♄13	3°12	28° 9	19°40	10°53	22°34	16° 8	19°47	19°58	1°D54	3°48	21°32	18°43		
M 9	11 15 57	20°59'44	14°47	2°59	29°23	20°27	11° 7	22°30	16°10	19°49	19°58	1°55	3°45	21°38	18°46		
T 10	11 19 54	21°58'52	27°37	2°40	0♃38	21°14	11°21	22°26	16°12	19°50	19°58	1°56	3°42	21°45	18°49		
W11	11 23 51	22°57'58	10♂44	2°14	1°52	22° 1	11°35	22°22	16°15	19°51	19°59	1°58	3°38	21°52	18°53		
T 12	11 27 47	23°57'01	24°12	1°43	3° 6	22°47	11°49	22°19	16°17	19°53	19°59	1°R58	3°35	21°59	18°56		
F 13	11 31 44	24°56'02	8♄ 3	1° 8	4°21	23°34	12° 3	22°15	16°19	19°54	19°59	1°58	3°32	22° 5	19° 0		
S 14	11 35 40	25°55'01	22°17	0°28	5°35	24°21	12°17	22°11	16°22	19°55	19°59	1°55	3°29	22°12	19° 3		
S 15	11 39 37	26°53'57	6♄52	29♄46	6°49	25° 8	12°31	22° 8	16°25	19°56	20° 0	1°51	3°26	22°19	19° 7		
M16	11 43 33	27°52'51	21°44	29° 1	8° 3	25°54	12°45	22° 5	16°27	19°57	20° 0	1°47	3°23	22°25	19°10		
T 17	11 47 30	28°51'43	6♂45	28°14	9°18	26°41	12°59	22° 1	16°30	19°58	20° 0	1°42	3°19	22°32	19°13		
W18	11 51 26	29°50'32	21°48	27°28	10°32	27°28	13°14	21°58	16°32	20° 0	20° 1	1°38	3°16	22°39	19°17		
T 19	11 55 23	0♃49'20	6♄42	26°41	11°46	28°14	13°28	21°55	16°35	20° 1	20° 1	1°34	3°13	22°46	19°20		
F 20	11 59 20	1°48'05	21°19	25°56	13° 0	29° 1	13°42	21°52	16°38	20° 2	20° 2	1°33	3°10	22°52	19°23		
S 21	12 3 16	2°46'48	5♂34	25°13	14°14	29°47	13°56	21°49	16°40	20° 3	20° 2	1°D32	3° 7	22°59	19°27		
S 22	12 7 13	3°45'30	19°23	24°33	15°28	0♄34	14°10	21°46	16°43	20° 4	20° 3	1°33	3° 3	23° 6	19°30		
M23	12 11 9	4°44'09	2♄45	23°56	16°42	1°20	14°25	21°43	16°46	20° 4	20° 3	1°35	3° 0	23°12	19°33		
T 24	12 15 6	5°42'47	15°42	23°23	17°56	2° 7	14°39	21°40	16°49	20° 5	20° 4	1°36	2°57	23°19	19°37		
W25	12 19 2	6°41'24	28°18	22°55	19°10	2°53	14°53	21°37	16°52	20° 6	20° 4	1°37	2°54	23°26	19°40		
T 26	12 22 59	7°39'58	10♄36	22°31	20°24	3°40	15° 7	21°35	16°54	20° 7	20° 5	1°R38	2°51	23°33	19°43		
F 27	12 26 55	8°38'31	22°41	22°12	21°38	4°26	15°22	21°32	16°57	20° 8	20° 5	1°37	2°48	23°39	19°47		
S 28	12 30 52	9°37'02	4♋37	21°58	22°52	5°13	15°36	21°30	17° 0	20° 9	20° 6	1°35	2°44	23°46	19°50		
S 29	12 34 49	10°35'32	16°28	21°49	24° 6	5°59	15°50	21°27	17° 3	20° 9	20° 7	1°32	2°41	23°53	19°53		
M30	12 38 45	11°33'59	28°19	21°D45	25°20	6°46	16° 5	21°25	17° 6	20°10	20° 7	1°29	2°38	23°59	19°56		
T 31	12 42 42	12♃32'25	10♄13	21♄46	26♃34	7♄32	16♃19	21♂23	17♄ 9	20♄11	20♂ 8	1♄26	2♄35	24♋ 6	20♄ 0		

Delta T = 01h05m29s Julian Calendar 1 March 683 == Greg. Calendar 4 March 683

APRIL 683 C.E.JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	12 46 38	13♃30'49	22♄13	21♄52	27♃47	8♄18	16♃33	21°R21	17♄12	20♄11	20♂ 9	1°R23	2♄32	24♋13	20♄ 3		
T 2	12 50 35	14°29'12	4♃21	22° 3	29° 1	9° 5	16°47	21♂19	17°15	20°12	20° 9	1♄21	2°29	24°20	20° 6		
F 3	12 54 31	15°27'32	16°38	22°19	0♄15	9°51	17° 2	21°17	17°18	20°12	20°10	1°20	2°25	24°26	20° 9		
S 4	12 58 28	16°25'51	29° 5	22°40	1°29	10°37	17°16	21°16	17°22	20°13	20°11	1°D19	2°22	24°33	20°12		
S 5	13 2 24	17°24'07	11♄45	23° 4	2°42	11°23	17°30	21°14	17°25	20°14	20°11	1°19	2°19	24°40	20°16		
M 6	13 6 21	18°22'22	24°38	23°34	3°56	12° 9	17°45	21°12	17°28	20°14	20°12	1°20	2°16	24°46	20°19		
T 7	13 10 18	19°20'35	7♂44	24° 7	5°10	12°56	17°59	21°11	17°31	20°14	20°13	1°21	2°13	24°53	20°22		
W 8	13 14 14	20°18'46	21° 5	24°44	6°23	13°42	18°13	21°10	17°34	20°15	20°14	1°22	2° 9	25° 0	20°25		
T 9	13 18 11	21°16'55	4♄41	25°25	7°37	14°28	18°28	21° 8	17°37	20°15	20°15	1°23	2° 6	25° 7	20°28		
F 10	13 22 7	22°15'02	18°32	26°10	8°51	15°14	18°42	21° 7	17°41	20°16	20°16	1°R23	2° 3	25°13	20°31		
S 11	13 26 4	23°13'06	2♄38	26°58	10° 4	16° 0	18°56	21° 6	17°44	20°16	20°16	1°23	2° 0	25°20	20°34		
S 12	13 30 0	24°11'09	16°58	27°50	11°18	16°46	19°11	21° 5	17°47	20°16	20°17	1°23	1°57	25°27	20°37		
M13	13 33 57	25° 9'10	1♂28	28°45	12°31	17°32	19°25	21° 4	17°51	20°16	20°18	1°22	1°54	25°33	20°40		
T 14	13 37 53	26° 7'09	16° 4	29°43	13°45	18°17	19°39	21° 4	17°54	20°17	20°19	1°21	1°50	25°40	20°43		
W15	13 41 50	27° 5'05	0♄40	0♃44	14°58	19° 3	19°53	21° 3	17°57	20°17	20°20	1°21	1°47	25°47	20°46		
T 16	13 45 47	28° 3'00	15°12	1°47	16°12	19°49	20° 8	21° 3	18° 1	20°17	20°21	1°21	1°44	25°53	20°48		
F 17	13 49 43	29° 0'54	29°32	2°54	17°25	20°35	20°22	21° 2	18° 4	20°17	20°22	1°D21	1°41	26° 0	20°51		
S 18	13 53 40	29°58'45	13♂35	4° 3	18°38	21°20	20°36	21° 2	18° 7	20°17	20°23	1°21	1°38	26° 7	20°54		
S 19	13 57 36	0♄56'36	27°19	5°15	19°52	22° 6	20°50	21° 2	18°11	20°17	20°24	1°R21	1°34	26°14	20°57		
M20	14 1 33	1°54'25	10♄40	6°30	21° 5	22°52	21° 4	21°D 1	18°14	20°R17	20°25	1°21	1°31	26°20	21° 0		
T 21	14 5 29	2°52'13	23°40	7°47	22°18	23°37	21°19	21° 1	18°17	20°17	20°26	1°20	1°28	26°27	21° 2		
W22	14 9 26	3°49'59	6♄19	9° 6	23°32	24°23	21°33	21° 2	18°21	20°17	20°27	1°20	1°25	26°34	21° 5		
T 23	14 13 22	4°47'44	18°40	10°28	24°45	25° 8	21°47	21° 2	18°24	20°17	20°28	1°20	1°22	26°40	21° 8		
F 24	14 17 19	5°45'28	0♋47	11°53	25°58	25°54	22° 1	21° 2	18°28	20°17	20°30	1°D20	1°19	26°47	21°10		
S 25	14 21 16	6°43'11	12°45	13°19	27°11	26°39	22°15	21° 3	18°31	20°17	20°31	1°20	1°15	26°54	21°13		
S 26	14 25 12	7°40'52	24°38	14°48	28°24	27°25	22°29	21° 3	18°35	20°17	20°32	1°20	1°12	27° 1	21°16		
M27	14 29 9	8°38'33	6♄30	16°19	29°38	28°10	22°43	21° 4	18°38	20°16	20°33	1°21	1° 9	27° 7	21°18		
T 28	14 33 5	9°36'12	18°26	17°53	0♂51	28°55	22°57	21° 4	18°42	20°16	20°34	1°21	1° 6	27°14	21°21		
W29	14 37 2	10°33'50	0♃30	19°29	2° 4	29°41	23°11	21° 5	18°45	20°16	20°35	1°22	1° 3	27°21	21°23		
T 30	14 40 58	11♄31'27	12♃45	21♃ 7	3♂17	0♃26	23♃25	21♂ 6	18♄49	20♄16	20♂37	1♄23	1♄ 0	27♋27	21♄26		

Delta T = 01h05m28s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 683

MAY 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	14 44 55	12♌29°03'	25♍14'	22♍47'	4♎30'	1♏11'	23♏39'	21♐7'	18♑52'	20♒15'	20♓38'	1°R24	0♌56'	27♍34'	21♎28'		
S 2	14 48 51	13°26'38"	7♌58'	24°29'	5°43'	1°56'	23°53'	21°8'	18°56'	20°15'	20°39'	1♌24'	0°53'	27°41'	21°30'		
S 3	14 52 48	14°24'12"	20°58'	26°14'	6°56'	2°41'	24°7'	21°10'	18°59'	20°14'	20°40'	1°23'	0°50'	27°48'	21°33'		
M 4	14 56 44	15°21'44"	4♎14'	28°1'	8°9'	3°26'	24°20'	21°11'	19°3'	20°14'	20°41'	1°22'	0°47'	27°54'	21°35'		
T 5	15 0 41	16°19'15"	17°45'	29°50'	9°22'	4°11'	24°34'	21°12'	19°6'	20°14'	20°43'	1°20'	0°44'	28°1'	21°37'		
W 6	15 4 38	17°16'45"	1♌29'	1♌42'	10°35'	4°56'	24°48'	21°14'	19°10'	20°13'	20°44'	1°18'	0°40'	28°8'	21°40'		
T 7	15 8 34	18°14'14"	15°23'	3°35'	11°47'	5°41'	25°2'	21°16'	19°13'	20°13'	20°45'	1°16'	0°37'	28°14'	21°42'		
F 8	15 12 31	19°11'42"	29°26'	5°31'	13°0'	6°25'	25°15'	21°17'	19°17'	20°12'	20°47'	1°14'	0°34'	28°21'	21°44'		
S 9	15 16 27	20°9'08"	13♎36'	7°29'	14°13'	7°10'	25°29'	21°19'	19°20'	20°11'	20°48'	1°D13	0°31'	28°28'	21°46'		
S 10	15 20 24	21°6'32"	27°49'	9°29'	15°26'	7°55'	25°42'	21°21'	19°24'	20°11'	20°49'	1°14'	0°28'	28°35'	21°48'		
M11	15 24 20	22°3'56"	12♎3'	11°30'	16°39'	8°39'	25°56'	21°23'	19°27'	20°10'	20°51'	1°14'	0°25'	28°41'	21°50'		
T12	15 28 17	23°1'17"	13°34'	17°51'	9°24'	26°9'	21°25'	19°31'	20°10'	20°52'	20°51'	1°16'	0°21'	28°48'	21°52'		
W13	15 32 14	23°58'38"	10♌27'	15°39'	19°4'	10°8'	26°23'	21°28'	19°34'	20°9'	20°53'	1°17'	0°18'	28°55'	21°54'		
T14	15 36 10	24°55'58"	24°30'	17°46'	20°17'	10°53'	26°36'	21°30'	19°38'	20°8'	20°55'	1°R18	0°15'	29°1'	21°56'		
F15	15 40 7	25°53'17"	8♎25'	19°55'	21°29'	11°37'	26°50'	21°32'	19°41'	20°7'	20°56'	1°18'	0°12'	29°8'	21°58'		
S16	15 44 3	26°50'35"	22°7'	22°4'	22°42'	12°21'	27°3'	21°35'	19°45'	20°7'	20°57'	1°16'	0°9'	29°15'	22°0'		
S17	15 48 0	27°47'52"	5♌34'	24°15'	23°54'	13°6'	27°16'	21°37'	19°48'	20°6'	20°59'	1°14'	0°6'	29°21'	22°1'		
M18	15 51 56	28°45'08"	18°45'	26°26'	25°7'	13°50'	27°29'	21°40'	19°52'	20°5'	21°0'	1°10'	0°2'	29°28'	22°3'		
T19	15 55 53	29°42'24"	1♌38'	28°38'	26°19'	14°34'	27°43'	21°43'	19°55'	20°4'	21°2'	1°6'	29°59'	29°35'	22°5'		
W20	15 59 49	0♎39'39"	14°14'	0♎49'	27°32'	15°18'	27°56'	21°46'	19°59'	20°3'	21°3'	1°1'	29°56'	29°42'	22°6'		
T21	16 3 46	1°36'54"	26°35'	3°1'	28°44'	16°2'	28°9'	21°49'	20°2'	20°2'	21°4'	0°57'	29°53'	29°48'	22°8'		
F22	16 7 43	8°34'08"	8♍43'	5°13'	29°56'	16°46'	28°22'	21°52'	20°6'	20°1'	21°6'	0°54'	29°50'	29°55'	22°10'		
S23	16 11 39	3°31'22"	20°41'	7°23'	1♌9'	17°30'	28°35'	21°55'	20°9'	20°0'	21°7'	0°51'	29°46'	0♎2'	22°11'		
S24	16 15 36	4°28'35"	2♎34'	9°33'	2°21'	18°14'	28°47'	21°58'	20°13'	19°59'	21°9'	0°D50	29°43'	0°8'	22°13'		
M25	16 19 32	5°25'48"	14°26'	11°42'	3°33'	18°57'	29°0'	22°2'	20°16'	19°58'	21°10'	0°51'	29°40'	0°15'	22°14'		
T26	16 23 29	6°23'01"	26°23'	13°50'	4°46'	19°41'	29°13'	22°5'	20°19'	19°57'	21°12'	0°52'	29°37'	0°22'	22°15'		
W27	16 27 25	7°20'14"	8♍29'	15°56'	5°58'	20°25'	29°26'	22°9'	20°23'	19°56'	21°13'	0°54'	29°34'	0°29'	22°17'		
T28	16 31 22	8°17'26"	20°49'	18°0'	7°10'	21°8'	29°38'	22°12'	20°26'	19°55'	21°15'	0°55'	29°31'	0°35'	22°18'		
F29	16 35 18	9°14'38"	3♌26'	20°3'	8°22'	21°52'	29°51'	22°16'	20°30'	19°54'	21°16'	0°R55	29°27'	0°42'	22°19'		
S30	16 39 15	10°11'50"	16°23'	22°4'	9°34'	22°35'	0♎3'	22°20'	20°33'	19°53'	21°18'	0°54'	29°24'	0°49'	22°21'		
S31	16 43 12	11♎9'02"	29♌41'	24♎3'	10♌46'	23♍19'	0♎16'	22♎24'	20♑36'	19♒52'	21♓19'	0♌51'	29♍21'	0♎55'	22♎22'		

Delta T = 01h05m27s

Julian Calendar 1 May 683 == Greg. Calendar 4 May 683

JUNE 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	16 47 8	12♎6'14"	13♎20'	26♎0'	11♏58'	24♏2'	0♎28'	22♐28'	20♑40'	19°R50'	21♒20'	0°R47	29♍18'	1♎2'	22♎23'		
T 2	16 51 5	13°3'25"	27°17'	27°55'	13°10'	24°45'	0°40'	22°32'	20°43'	19°49'	21°22'	0♌41'	29°15'	1°9'	22°24'		
W 3	16 55 1	14°0'36"	11♏28'	29°47'	14°22'	25°29'	0°53'	22°36'	20°46'	19°48'	21°23'	0°34'	29°12'	1°15'	22°25'		
T 4	16 58 58	14°57'47"	25°48'	1♌38'	15°34'	26°12'	1°5'	22°40'	20°50'	19°47'	21°25'	0°28'	29°8'	1°22'	22°26'		
F 5	17 2 54	15°54'57"	10♎12'	3°26'	16°46'	26°55'	1°17'	22°44'	20°53'	19°46'	21°26'	0°22'	29°5'	1°29'	22°27'		
S 6	17 6 51	16°52'07"	24°35'	5°13'	17°58'	27°38'	1°29'	22°49'	20°56'	19°44'	21°28'	0°18'	29°2'	1°36'	22°28'		
S 7	17 10 47	17°49'16"	8♎52'	6°57'	19°10'	28°20'	1°41'	22°53'	20°59'	19°43'	21°29'	0°16'	28°59'	1°42'	22°28'		
M 8	17 14 44	18°46'25"	23°2'	8°39'	20°21'	29°3'	1°53'	22°58'	21°3'	19°42'	21°31'	0°D16	28°56'	1°49'	22°29'		
T 9	17 18 41	19°43'33"	7♌2'	10°18'	21°33'	29°46'	2°4'	23°2'	21°6'	19°40'	21°32'	0°17'	28°52'	1°56'	22°30'		
W10	17 22 37	20°40'42"	20°52'	11°56'	22°45'	0♎29'	2°16'	23°7'	21°9'	19°39'	21°34'	0°18'	28°49'	2°2'	22°31'		
T11	17 26 34	21°37'50"	4♎32'	13°31'	23°56'	1°11'	2°28'	23°12'	21°12'	19°38'	21°35'	0°R18	28°46'	2°9'	22°31'		
F12	17 30 30	22°34'57"	18°1'	15°5'	25°8'	1°54'	2°39'	23°16'	21°15'	19°36'	21°37'	0°17'	28°43'	2°16'	22°32'		
S13	17 34 27	23°32'05"	1♌19'	16°36'	26°19'	2°36'	2°50'	23°21'	21°18'	19°35'	21°38'	0°13'	28°40'	2°22'	22°32'		
S14	17 38 23	24°29'13"	14°25'	18°4'	27°31'	3°19'	3°2'	23°26'	21°22'	19°33'	21°40'	0°7'	28°37'	2°29'	22°33'		
M15	17 42 20	25°26'21"	27°19'	19°31'	28°42'	4°1'	3°13'	23°31'	21°25'	19°32'	21°41'	29°59'	28°33'	2°36'	22°33'		
T16	17 46 16	26°23'29"	9♌59'	20°55'	29°53'	4°43'	3°24'	23°36'	21°28'	19°30'	21°43'	29°49'	28°30'	2°43'	22°34'		
W17	17 50 13	27°20'37"	22°27'	22°17'	1♎5'	5°25'	3°35'	23°42'	21°31'	19°29'	21°44'	29°39'	28°27'	2°49'	22°34'		
T18	17 54 10	28°17'46"	4♎42'	23°36'	2°16'	6°7'	3°46'	23°47'	21°34'	19°28'	21°46'	29°29'	28°24'	2°56'	22°34'		
F19	17 58 6	29°14'55"	16°46'	24°54'	3°27'	6°49'	3°57'	23°52'	21°37'	19°26'	21°47'	29°21'	28°21'	3°3'	22°34'		
S20	18 2 3	0♌12'05"	28°42'	26°8'	4°38'	7°31'	4°8'	23°58'	21°40'	19°25'	21°49'	29°14'	28°18'	3°9'	22°35'		
S21	18 5 59	1°9'15"	10♎33'	27°20'	5°49'	8°13'	4°19'	24°3'	21°42'	19°23'	21°50'	29°10'	28°14'	3°16'	22°35'		
M22	18 9 56	2°6'25"	22°24'	28°30'	7°0'	8°55'	4°29'	24°8'	21°45'	19°21'	21°52'	29°7'	28°11'	3°23'	22°35'		
T23	18 13 52	3°3'37"	4♍19'	29°37'	8°11'	9°36'	4°40'	24°14'	21°48'	19°20'	21°53'	29°D7	28°8'	3°29'	22°R35		
W24	18 17 49	4°0'49"	16°25'	0♎41'	9°22'	10°18'	4°50'	24°20'	21°51'	19°18'	21°55'	29°7'	28°5'	3°36'	22°35'		
T25	18 21 46	4°58'01"	28°45'	1°43'	10°33'	10°59'	5°0'	24°25'	21°54'	19°17'	21°56'	29°R8	28°2'	3°43'	22°35'		
F26	18 25 42	5°55'15"	11♌24'	2°41'	11°44'	11°41'	5°10'	24°31'	21°57'	19°15'	21°58'	29°7'	27°58'	3°50'	22°35'		
S27	18 29 39	6°52'29"	24°27'	3°37'	12°55'	12°22'	5°20'	24°37'	21°59'	19°14'	21°59'	29°5'	27°55'	3°56'	22°34'		
S28	18 33 35	7°49'45"	7♎56'	4°29'	14°5'	13°4'	5°30'	24°43'	22°2'	19°12'	22°1'	29°0'	27°52'	4°3'	22°34'		
M29	18 37 32	8°47'01"	21°51'	5°18'	15°16'	13°45'	5°40'	24°49'	22°5'	19°11'	22°2'	28°52'	27°49'	4°10'	22°34'		
T30	18 41 28	9♌44'17"	6♌9'	6♎3'	16♎27'	14♌26'	5♌50'	24♎55'	22♑7'	19♒9'	22♓4'	28°Y43	27°Y46	4♎16'	22♎33'		

SWISS EPHEMERIS for the year 683

JULY 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	18 45 25	10 ⁰ 41'35	20 ⁰ 45	6 ⁰ 45	17 ⁰ 37	15 ⁰ 7	5 ⁰ 59	25 ⁰ 1	22 ⁰ 10	19 ⁰ R 7	22 ⁰ II 5	28 ⁰ R32	27 ⁰ Y43	4 ⁰ X23	22 ⁰ R33
T 2	18 49 21	11 ⁰ 38'53	5 ⁰ 31	7 ⁰ 24	18 ⁰ 48	15 ⁰ 48	6 ⁰ 9	25 ⁰ 7	22 ⁰ 13	19 ⁰ X 6	22 ⁰ 7	28 ⁰ Y22	27 ⁰ 39	4 ⁰ 30	22 ⁰ X33
F 3	18 53 18	12 ⁰ 36'11	20 ⁰ 20	7 ⁰ 58	19 ⁰ 58	16 ⁰ 29	6 ⁰ 18	25 ⁰ 13	22 ⁰ 15	19 ⁰ 4	22 ⁰ 8	28 ⁰ 13	27 ⁰ 36	4 ⁰ 36	22 ⁰ 32
S 4	18 57 15	13 ⁰ 33'31	5 ⁰ 11	8 ⁰ 28	21 ⁰ 8	17 ⁰ 9	6 ⁰ 28	25 ⁰ 19	22 ⁰ 18	19 ⁰ 2	22 ⁰ 9	28 ⁰ 6	27 ⁰ 33	4 ⁰ 43	22 ⁰ 32
S 5	19 1 11	14 ⁰ 30'50	19 ⁰ 33	8 ⁰ 54	22 ⁰ 19	17 ⁰ 50	6 ⁰ 37	25 ⁰ 25	22 ⁰ 20	19 ⁰ 1	22 ⁰ 11	28 ⁰ 2	27 ⁰ 30	4 ⁰ 50	22 ⁰ 31
M 6	19 5 8	15 ⁰ 28'10	3 ⁰ 49	9 ⁰ 16	23 ⁰ 29	18 ⁰ 30	6 ⁰ 46	25 ⁰ 32	22 ⁰ 22	18 ⁰ 59	22 ⁰ 12	28 ⁰ 0	27 ⁰ 27	4 ⁰ 57	22 ⁰ 30
T 7	19 9 4	16 ⁰ 25'31	17 ⁰ 46	9 ⁰ 33	24 ⁰ 39	19 ⁰ 11	6 ⁰ 55	25 ⁰ 38	22 ⁰ 25	18 ⁰ 58	22 ⁰ 14	28 ⁰ D 0	27 ⁰ 24	5 ⁰ 3	22 ⁰ 30
W 8	19 13 1	17 ⁰ 22'52	1 ⁰ 11	9 ⁰ 45	25 ⁰ 49	19 ⁰ 51	7 ⁰ 3	25 ⁰ 44	22 ⁰ 27	18 ⁰ 56	22 ⁰ 15	28 ⁰ R 0	27 ⁰ 20	5 ⁰ 10	22 ⁰ 29
T 9	19 16 57	18 ⁰ 20'14	14 ⁰ 52	9 ⁰ 53	26 ⁰ 59	20 ⁰ 32	7 ⁰ 12	25 ⁰ 51	22 ⁰ 30	18 ⁰ 54	22 ⁰ 16	27 ⁰ 59	27 ⁰ 17	5 ⁰ 17	22 ⁰ 28
F 10	19 20 54	19 ⁰ 17'36	28 ⁰ 3	9 ⁰ R55	28 ⁰ 9	21 ⁰ 12	7 ⁰ 20	25 ⁰ 57	22 ⁰ 32	18 ⁰ 53	22 ⁰ 18	27 ⁰ 56	27 ⁰ 14	5 ⁰ 23	22 ⁰ 27
S 11	19 24 50	20 ⁰ 15'00	11 ⁰ X 0	9 ⁰ 52	29 ⁰ 18	21 ⁰ 52	7 ⁰ 29	26 ⁰ 4	22 ⁰ 34	18 ⁰ 51	22 ⁰ 19	27 ⁰ 51	27 ⁰ 11	5 ⁰ 30	22 ⁰ 27
S 12	19 28 47	21 ⁰ 12'24	23 ⁰ 47	9 ⁰ 44	0 ⁰ 11	22 ⁰ 32	7 ⁰ 37	26 ⁰ 10	22 ⁰ 36	18 ⁰ 49	22 ⁰ 20	27 ⁰ 43	27 ⁰ 8	5 ⁰ 37	22 ⁰ 26
M13	19 32 44	22 ⁰ 9'49	6 ⁰ X22	9 ⁰ 31	1 ⁰ 38	23 ⁰ 12	7 ⁰ 45	26 ⁰ 17	22 ⁰ 38	18 ⁰ 48	22 ⁰ 22	27 ⁰ 32	27 ⁰ 4	5 ⁰ 43	22 ⁰ 25
T 14	19 36 40	23 ⁰ 7'15	18 ⁰ 48	9 ⁰ 12	2 ⁰ 47	23 ⁰ 51	7 ⁰ 53	26 ⁰ 24	22 ⁰ 41	18 ⁰ 46	22 ⁰ 23	27 ⁰ 19	27 ⁰ 1	5 ⁰ 50	22 ⁰ 24
W15	19 40 37	24 ⁰ 4'42	1 ⁰ X 3	8 ⁰ 48	3 ⁰ 57	24 ⁰ 31	8 ⁰ 1	26 ⁰ 30	22 ⁰ 43	18 ⁰ 45	22 ⁰ 24	27 ⁰ 6	26 ⁰ 58	5 ⁰ 57	22 ⁰ 23
T 16	19 44 33	25 ⁰ 2'11	13 ⁰ 10	8 ⁰ 20	5 ⁰ 6	25 ⁰ 11	8 ⁰ 8	26 ⁰ 37	22 ⁰ 45	18 ⁰ 43	22 ⁰ 26	26 ⁰ 53	26 ⁰ 55	6 ⁰ 3	22 ⁰ 22
F 17	19 48 30	25 ⁰ 59'40	25 ⁰ 9	7 ⁰ 46	6 ⁰ 15	25 ⁰ 50	8 ⁰ 16	26 ⁰ 44	22 ⁰ 47	18 ⁰ 41	22 ⁰ 27	26 ⁰ 41	26 ⁰ 52	6 ⁰ 10	22 ⁰ 20
S 18	19 52 26	26 ⁰ 57'11	7 ⁰ X 1	7 ⁰ 8	7 ⁰ 25	26 ⁰ 30	8 ⁰ 23	26 ⁰ 51	22 ⁰ 49	18 ⁰ 40	22 ⁰ 28	26 ⁰ 31	26 ⁰ 49	6 ⁰ 17	22 ⁰ 19
S 19	19 56 23	27 ⁰ 54'43	18 ⁰ 50	6 ⁰ 27	8 ⁰ 34	27 ⁰ 9	8 ⁰ 31	26 ⁰ 58	22 ⁰ 51	18 ⁰ 38	22 ⁰ 30	26 ⁰ 25	26 ⁰ 45	6 ⁰ 24	22 ⁰ 18
M20	20 0 19	28 ⁰ 52'16	0 ⁰ Y40	5 ⁰ 42	9 ⁰ 43	27 ⁰ 48	8 ⁰ 38	27 ⁰ 4	22 ⁰ 52	18 ⁰ 37	22 ⁰ 31	26 ⁰ 20	26 ⁰ 42	6 ⁰ 30	22 ⁰ 17
T 21	20 4 16	29 ⁰ 49'51	12 ⁰ 33	4 ⁰ 55	10 ⁰ 52	28 ⁰ 27	8 ⁰ 45	27 ⁰ 11	22 ⁰ 54	18 ⁰ 35	22 ⁰ 32	26 ⁰ 19	26 ⁰ 39	6 ⁰ 37	22 ⁰ 15
W22	20 8 13	0 ⁰ 47'28	24 ⁰ 37	4 ⁰ 5	12 ⁰ 0	29 ⁰ 6	8 ⁰ 51	27 ⁰ 18	22 ⁰ 56	18 ⁰ 33	22 ⁰ 33	26 ⁰ 18	26 ⁰ 36	6 ⁰ 44	22 ⁰ 14
T 23	20 12 9	1 ⁰ 45'06	6 ⁰ X54	3 ⁰ 15	13 ⁰ 9	29 ⁰ 45	8 ⁰ 58	27 ⁰ 25	22 ⁰ 58	18 ⁰ 32	22 ⁰ 35	26 ⁰ 18	26 ⁰ 33	6 ⁰ 50	22 ⁰ 13
F 24	20 16 6	2 ⁰ 42'46	19 ⁰ 32	2 ⁰ 25	14 ⁰ 18	0 ⁰ II24	9 ⁰ 5	27 ⁰ 32	23 ⁰ 0	18 ⁰ 30	22 ⁰ 36	26 ⁰ 17	26 ⁰ 30	6 ⁰ 57	22 ⁰ 11
S 25	20 20 2	3 ⁰ 40'27	2 ⁰ II34	1 ⁰ 36	15 ⁰ 26	1 ⁰ 3	9 ⁰ 11	27 ⁰ 39	23 ⁰ 1	18 ⁰ 29	22 ⁰ 37	26 ⁰ 15	26 ⁰ 26	7 ⁰ 4	22 ⁰ 10
S 26	20 23 59	4 ⁰ 38'10	16 ⁰ 4	0 ⁰ 49	16 ⁰ 35	1 ⁰ 41	9 ⁰ 17	27 ⁰ 46	23 ⁰ 3	18 ⁰ 27	22 ⁰ 38	26 ⁰ 10	26 ⁰ 23	7 ⁰ 10	22 ⁰ 8
M27	20 27 55	5 ⁰ 35'55	0 ⁰ 4	0 ⁰ 5	17 ⁰ 43	2 ⁰ 20	9 ⁰ 23	27 ⁰ 54	23 ⁰ 4	18 ⁰ 26	22 ⁰ 39	26 ⁰ 3	26 ⁰ 20	7 ⁰ 17	22 ⁰ 6
T 28	20 31 52	6 ⁰ 33'41	14 ⁰ 31	29 ⁰ 25	18 ⁰ 51	2 ⁰ 58	9 ⁰ 29	28 ⁰ 1	23 ⁰ 6	18 ⁰ 24	22 ⁰ 40	25 ⁰ 53	26 ⁰ 17	7 ⁰ 24	22 ⁰ 5
W29	20 35 48	7 ⁰ 31'29	29 ⁰ 21	28 ⁰ 49	19 ⁰ 59	3 ⁰ 36	9 ⁰ 35	28 ⁰ 8	23 ⁰ 7	18 ⁰ 22	22 ⁰ 42	25 ⁰ 42	26 ⁰ 14	7 ⁰ 30	22 ⁰ 3
T 30	20 39 45	8 ⁰ 29'19	14 ⁰ 25	28 ⁰ 19	21 ⁰ 7	4 ⁰ 15	9 ⁰ 40	28 ⁰ 15	23 ⁰ 9	18 ⁰ 21	22 ⁰ 43	25 ⁰ 32	26 ⁰ 10	7 ⁰ 37	22 ⁰ 1
F 31	20 43 42	9 ⁰ 27'10	29 ⁰ 34	27 ⁰ 56	22 ⁰ 15	4 ⁰ II53	9 ⁰ X46	28 ⁰ 22	23 ⁰ 10	18 ⁰ X19	22 ⁰ II44	25 ⁰ Y22	26 ⁰ Y 7	7 ⁰ X44	22 ⁰ X 0

Delta T = 01h05m26s

Julian Calendar 1 July 683 == Greg. Calendar 4 July 683

AUGUST 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	20 47 38	10 ⁰ 25'02	14 ⁰ 11	27 ⁰ R39	23 ⁰ 11	5 ⁰ II30	9 ⁰ X51	28 ⁰ 29	23 ⁰ 12	18 ⁰ R18	22 ⁰ II45	25 ⁰ R15	26 ⁰ Y 4	7 ⁰ X51	21 ⁰ R58
S 2	20 51 35	11 ⁰ 22'56	29 ⁰ 25	27 ⁰ 29	24 ⁰ 30	6 ⁰ 8	9 ⁰ 56	28 ⁰ 37	23 ⁰ 13	18 ⁰ X17	22 ⁰ 46	25 ⁰ Y10	26 ⁰ 1	7 ⁰ 57	21 ⁰ X56
M 3	20 55 31	12 ⁰ 20'51	13 ⁰ 45	27 ⁰ D28	25 ⁰ 38	6 ⁰ 46	10 ⁰ 1	28 ⁰ 44	23 ⁰ 14	18 ⁰ 15	22 ⁰ 47	25 ⁰ 8	25 ⁰ 58	8 ⁰ 4	21 ⁰ 54
T 4	20 59 28	13 ⁰ 18'47	27 ⁰ 59	27 ⁰ 34	26 ⁰ 45	7 ⁰ 23	10 ⁰ 5	28 ⁰ 51	23 ⁰ 15	18 ⁰ 14	22 ⁰ 48	25 ⁰ D 8	25 ⁰ 55	8 ⁰ 11	21 ⁰ 52
W 5	21 3 24	14 ⁰ 16'45	11 ⁰ 11	27 ⁰ 48	27 ⁰ 52	8 ⁰ 1	10 ⁰ 10	28 ⁰ 59	23 ⁰ 16	18 ⁰ 12	22 ⁰ 49	25 ⁰ R 8	25 ⁰ 51	8 ⁰ 17	21 ⁰ 50
T 6	21 7 21	15 ⁰ 14'44	25 ⁰ 2	28 ⁰ 10	29 ⁰ 0	8 ⁰ 38	10 ⁰ 14	29 ⁰ 6	23 ⁰ 18	18 ⁰ 11	22 ⁰ 50	25 ⁰ 8	25 ⁰ 48	8 ⁰ 24	21 ⁰ 48
F 7	21 11 17	16 ⁰ 12'44	8 ⁰ X 4	28 ⁰ 41	0 ⁰ 4	9 ⁰ 15	10 ⁰ 18	29 ⁰ 13	23 ⁰ 19	18 ⁰ 9	22 ⁰ 51	25 ⁰ 6	25 ⁰ 45	8 ⁰ 31	21 ⁰ 47
S 8	21 15 14	17 ⁰ 10'46	20 ⁰ 49	29 ⁰ 19	1 ⁰ 13	9 ⁰ 52	10 ⁰ 22	29 ⁰ 21	23 ⁰ 20	18 ⁰ 8	22 ⁰ 52	25 ⁰ 1	25 ⁰ 42	8 ⁰ 37	21 ⁰ 44
S 9	21 19 11	18 ⁰ 8'50	3 ⁰ X22	0 ⁰ 4	2 ⁰ 20	10 ⁰ 29	10 ⁰ 26	29 ⁰ 28	23 ⁰ 21	18 ⁰ 7	22 ⁰ 53	24 ⁰ 54	25 ⁰ 39	8 ⁰ 44	21 ⁰ 42
M10	21 23 7	19 ⁰ 6'55	15 ⁰ 43	0 ⁰ 59	3 ⁰ 26	11 ⁰ 6	10 ⁰ 29	29 ⁰ 36	23 ⁰ 21	18 ⁰ 5	22 ⁰ 54	24 ⁰ 45	25 ⁰ 36	8 ⁰ 51	21 ⁰ 40
T 11	21 27 4	20 ⁰ 5'01	27 ⁰ 55	2 ⁰ 0	4 ⁰ 33	11 ⁰ 43	10 ⁰ 33	29 ⁰ 43	23 ⁰ 22	18 ⁰ 4	22 ⁰ 55	24 ⁰ 34	25 ⁰ 32	8 ⁰ 57	21 ⁰ 38
W12	21 31 0	21 ⁰ 3'09	9 ⁰ X59	3 ⁰ 7	5 ⁰ 39	12 ⁰ 19	10 ⁰ 36	29 ⁰ 50	23 ⁰ 23	18 ⁰ 3	22 ⁰ 56	24 ⁰ 22	25 ⁰ 29	9 ⁰ 4	21 ⁰ 36
T 13	21 34 57	22 ⁰ 1'19	21 ⁰ 58	4 ⁰ 21	6 ⁰ 45	12 ⁰ 56	10 ⁰ 39	29 ⁰ 58	23 ⁰ 24	18 ⁰ 1	22 ⁰ 57	24 ⁰ 10	25 ⁰ 26	9 ⁰ 11	21 ⁰ 34
F 14	21 38 53	22 ⁰ 59'31	3 ⁰ X51	5 ⁰ 41	7 ⁰ 51	13 ⁰ 32	10 ⁰ 42	0 ⁰ 11	23 ⁰ 25	18 ⁰ 0	22 ⁰ 58	24 ⁰ 0	25 ⁰ 23	9 ⁰ 17	21 ⁰ 32
S 15	21 42 50	23 ⁰ 57'44	15 ⁰ 41	7 ⁰ 7	8 ⁰ 56	14 ⁰ 8	10 ⁰ 45	0 ⁰ 13	23 ⁰ 25	17 ⁰ 59	22 ⁰ 58	23 ⁰ 52	25 ⁰ 20	9 ⁰ 24	21 ⁰ 29
S 16	21 46 46	24 ⁰ 56'00	27 ⁰ 30	8 ⁰ 37	10 ⁰ 2	14 ⁰ 44	10 ⁰ 47	0 ⁰ 20	23 ⁰ 26	17 ⁰ 58	22 ⁰ 59	23 ⁰ 46	25 ⁰ 16	9 ⁰ 31	21 ⁰ 27
M17	21 50 43	25 ⁰ 54'17	9 ⁰ Y20	10 ⁰ 12	11 ⁰ 7	1									

SWISS EPHEMERIS for the year 683

SEPTEMBER 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	22 49 51	10♎32'57	7♎18	7♎29	27♁ 1	24♎ 0	11°R 0	2♎20	23°R29	17°R41	23♎ 9	23°Y 1	24°Y26	11°X18	20°R48
W 2	22 53 48	11°31'48	21°10	9°19	28° 2	24°33	10♎59	2°27	23♎28	17♎40	23°10	23° 2	24°22	11°24	20°X46
T 3	22 57 44	12°30'40	4♎36	11° 9	29° 3	25° 6	10°58	2°35	23°28	17°40	23°10	23° 3	24°19	11°31	20°43
F 4	23 1 41	13°29'35	17°38	12°57	0♎ 4	25°39	10°57	2°42	23°28	17°39	23°11	23°R 3	24°16	11°38	20°40
S 5	23 5 38	14°28'31	0♎20	14°45	1° 5	26°12	10°55	2°49	23°27	17°38	23°11	23° 2	24°13	11°45	20°38
S 6	23 9 34	15°27'29	12°46	16°32	2° 5	26°45	10°53	2°57	23°27	17°38	23°12	22°59	24°10	11°51	20°35
M 7	23 13 31	16°26'29	24°59	18°18	3° 5	27°17	10°51	3° 4	23°26	17°37	23°12	22°54	24° 7	11°58	20°33
T 8	23 17 27	17°25'31	7♎ 2	20° 3	4° 5	27°49	10°49	3°12	23°26	17°36	23°12	22°48	24° 3	12° 5	20°30
W 9	23 21 24	18°24'34	18°59	21°47	5° 4	28°21	10°47	3°19	23°25	17°36	23°12	22°42	24° 0	12°11	20°27
T 10	23 25 20	19°23'40	0♎51	23°31	6° 3	28°53	10°44	3°26	23°24	17°35	23°13	22°36	23°57	12°18	20°25
F 11	23 29 17	20°22'47	12°41	25°14	7° 1	29°25	10°42	3°33	23°23	17°35	23°13	22°30	23°54	12°25	20°22
S 12	23 33 13	21°21'57	24°32	26°55	7°59	29°56	10°39	3°41	23°23	17°34	23°13	22°26	23°51	12°31	20°19
S 13	23 37 10	22°21'09	6°Y23	28°36	8°56	0♎27	10°36	3°48	23°22	17°34	23°13	22°23	23°47	12°38	20°17
M14	23 41 7	23°20'23	18°19	0♎16	9°53	0°58	10°33	3°55	23°21	17°33	23°14	22°D22	23°44	12°45	20°14
T 15	23 45 3	24°19'39	0♎20	1°56	10°50	1°29	10°29	4° 2	23°20	17°33	23°14	22°22	23°41	12°51	20°12
W16	23 49 0	25°18'57	12°31	3°34	11°46	2° 0	10°25	4°10	23°19	17°32	23°14	22°23	23°38	12°58	20° 9
T 17	23 52 56	26°18'18	24°53	5°12	12°42	2°30	10°22	4°17	23°18	17°32	23°14	22°25	23°35	13° 5	20° 6
F 18	23 56 53	27°17'41	7♎31	6°49	13°37	3° 0	10°18	4°24	23°17	17°32	23°14	22°27	23°32	13°11	20° 4
S 19	0 0 49	28°17'06	20°28	8°25	14°31	3°30	10°13	4°31	23°16	17°31	23°14	22°28	23°28	13°18	20° 1
S 20	0 4 46	29°16'34	3♎47	10° 1	15°25	4° 0	10° 9	4°38	23°15	17°31	23°14	22°R28	23°25	13°25	19°59
M21	0 8 42	0♎16'05	17°31	11°36	16°19	4°29	10° 4	4°45	23°14	17°31	23°R14	22°27	23°22	13°31	19°56
T 22	0 12 39	1°15'38	1♎41	13°10	17°12	4°58	10° 0	4°52	23°12	17°31	23°14	22°25	23°19	13°38	19°53
W23	0 16 36	2°15'13	16°14	14°43	18° 4	5°27	9°55	4°59	23°11	17°31	23°14	22°23	23°16	13°45	19°51
T 24	0 20 32	3°14'50	1♎ 7	16°16	18°56	5°56	9°50	5° 6	23°10	17°30	23°14	22°20	23°13	13°51	19°48
F 25	0 24 29	4°14'29	16°13	17°48	19°46	6°24	9°44	5°13	23° 8	17°30	23°14	22°18	23° 9	13°58	19°46
S 26	0 28 25	5°14'11	1♎22	19°20	20°37	6°52	9°39	5°20	23° 7	17°30	23°14	22°16	23° 6	14° 5	19°43
S 27	0 32 22	6°13'55	16°25	20°51	21°26	7°20	9°33	5°26	23° 5	17°D30	23°14	22°D15	23° 3	14°11	19°41
M28	0 36 18	7°13'41	1♎14	22°21	22°15	7°47	9°27	5°33	23° 4	17°30	23°14	22°15	23° 0	14°18	19°38
T 29	0 40 15	8°13'28	15°42	23°51	23° 3	8°15	9°22	5°40	23° 2	17°30	23°13	22°16	22°57	14°25	19°36
W30	0 44 11	9°13'18	29♎43	25°20	23♎50	8♎42	9♎16	5♎47	23♎ 1	17♎30	23♎13	22°Y17	22°Y53	14°X31	19°X33

Delta T = 01h05m24s Julian Calendar 1 Sept. 683 == Greg. Calendar 4 Sept. 683

OCTOBER 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	0 48 8	10♎13'09	13♎18	26♎48	24♎36	9♎ 8	9°R 9	5♎53	22°R59	17♎31	23°R13	22°Y18	22°Y50	14°X38	19°R31
F 2	0 52 5	11°13'03	26°27	28°16	25°22	9°35	9♎ 3	6° 0	22♎57	17°31	23♎13	22°19	22°47	14°45	19°X29
S 3	0 56 1	12°12'58	9♎13	29°43	26° 6	10° 1	8°56	6° 6	22°56	17°31	23°13	22°R19	22°44	14°51	19°26
S 4	0 59 58	13°12'54	21°39	1♎10	26°50	10°26	8°50	6°13	22°54	17°31	23°12	22°19	22°41	14°58	19°24
M 5	1 3 54	14°12'53	3♎50	2°35	27°32	10°52	8°43	6°19	22°52	17°31	23°12	22°19	22°38	15° 5	19°22
T 6	1 7 51	15°12'53	15°50	4° 0	28°14	11°17	8°36	6°26	22°50	17°32	23°12	22°18	22°34	15°12	19°19
W 7	1 11 47	16°12'54	27°42	5°25	28°54	11°41	8°29	6°32	22°48	17°32	23°11	22°17	22°31	15°18	19°17
T 8	1 15 44	17°12'58	9♎32	6°48	29°33	12° 6	8°22	6°38	22°47	17°32	23°11	22°16	22°28	15°25	19°15
F 9	1 19 40	18°13'03	21°22	8°10	0♎11	12°30	8°15	6°45	22°45	17°33	23°10	22°16	22°25	15°32	19°13
S 10	1 23 37	19°13'10	3°Y15	9°32	0°48	12°54	8° 8	6°51	22°43	17°33	23°10	22°15	22°22	15°38	19°10
S 11	1 27 34	20°13'18	15°13	10°53	1°23	13°17	8° 0	6°57	22°41	17°34	23°10	22°15	22°18	15°45	19° 8
M12	1 31 30	21°13'29	27°18	12°12	1°58	13°40	7°53	7° 3	22°39	17°34	23° 9	22°D15	22°15	15°52	19° 6
T 13	1 35 27	22°13'41	9♎32	13°30	2°30	14° 3	7°45	7° 9	22°37	17°35	23° 9	22°R15	22°12	15°58	19° 4
W14	1 39 23	23°13'56	21°57	14°47	3° 1	14°25	7°38	7°15	22°34	17°35	23° 8	22°15	22° 9	16° 5	19° 2
T 15	1 43 20	24°14'12	4♎34	16° 3	3°31	14°47	7°30	7°21	22°32	17°36	23° 8	22°15	22° 6	16°12	19° 0
F 16	1 47 16	25°14'31	17°17	17°17	3°59	15° 8	7°22	7°27	22°30	17°36	23° 7	22°15	22° 3	16°18	18°58
S 17	1 51 13	26°14'51	0♎30	18°29	4°26	15°29	7°14	7°33	22°28	17°37	23° 6	22°14	21°59	16°25	18°56
S 18	1 55 9	27°15'14	13°52	19°39	4°51	15°50	7° 6	7°38	22°26	17°38	23° 6	22°14	21°56	16°32	18°54
M19	1 59 6	28°15'38	27°31	20°47	5°14	16°10	6°58	7°44	22°24	17°38	23° 5	22°D14	21°53	16°38	18°52
T 20	2 3 3	29°16'05	11♎29	21°53	5°35	16°30	6°50	7°50	22°21	17°39	23° 5	22°14	21°50	16°45	18°50
W21	2 6 59	0♎16'33	25°44	22°55	5°55	16°49	6°42	7°55	22°19	17°40	23° 4	22°14	21°47	16°52	18°49
T 22	2 10 56	1°17'04	10♎14	23°55	6°12	17° 8	6°34	8° 1	22°17	17°41	23° 3	22°15	21°44	16°58	18°47
F 23	2 14 52	2°17'36	24°56	24°51	6°28	17°26	6°26	8° 6	22°14	17°42	23° 3	22°16	21°40	17° 5	18°45
S 24	2 18 49	3°18'10	9♎44	25°43	6°41	17°44	6°18	8°11	22°12	17°43	23° 2	22°17	21°37	17°12	18°43
S 25	2 22 45	4°18'46	24°32	26°30	6°52	18° 2	6° 9	8°17	22°10	17°43	23° 1	22°R17	21°34	17°18	18°42
M26	2 26 42	5°19'23	9♎11	27°12	7° 1	18°18	6° 1	8°22	22° 7	17°44	23° 0	22°16	21°31	17°25	18°40
T 27	2 30 38	6°20'02	23°35	27°49	7° 8	18°35	5°53	8°27	22° 5	17°45	23° 0	22°15	21°28	17°32	18°38
W28	2 34 35	7°20'43	7♎38	28°19	7°13	18°51	5°45	8°32	22° 3	17°46	22°59	22°13	21°24	17°38	18°37
T 29	2 38 31	8°21'25	21°18	28°42	7°R15	19° 6	5°37	8°37	22° 0	17°47	22°58	22°11	21°21	17°45	18°35
F 30	2 42 28	9°22'08	4♎33	28°57	7°15	19°21	5°29	8°42	21°58	17°49	22°57	22° 9	21°18	17°52	18°34
S 31	2 46 25	10♎22'52	17♎25	29°R 3	7♎13	19°35	5♎20	8♎47	21♎55	17♎50	22♎56	22°Y 7	21°Y15	17°X58	18°X33

Delta T = 01h05m23s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [10.1.2003]

SWISS EPHEMERIS for the year 683

NOVEMBER 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	2 50 21	11♂23'38	29♂55	29°R 0	7°R 7	19♂49	5°R12	8♂51	21°R53	17♂51	22°R55	22°R 5	21°Y12	18°X 5	18°R31	
M 2	2 54 18	12°24'24	12♂7	28♂47	7♂0	20° 2	5♂4	8°56	21°R50	17°52	22°R54	22°D 5	21° 9	18°12	18°X30	
T 3	2 58 14	13°25'12	24° 7	28°23	6°50	20°14	4°56	9° 1	21°48	17°53	22°54	22°Y 5	21° 5	18°18	18°29	
W 4	3 2 11	14°26'00	5♂59	27°48	6°37	20°26	4°48	9° 5	21°45	17°54	22°53	22° 7	21° 2	18°25	18°28	
T 5	3 6 7	15°26'50	17°48	27° 3	6°23	20°37	4°40	9° 9	21°43	17°56	22°52	22° 8	20°59	18°32	18°26	
F 6	3 10 4	16°27'40	29°38	26° 7	6° 5	20°48	4°32	9°14	21°40	17°57	22°51	22°10	20°56	18°38	18°25	
S 7	3 14 0	17°28'32	11°Y34	25° 2	5°46	20°58	4°25	9°18	21°38	17°58	22°50	22°11	20°53	18°45	18°24	
S 8	3 17 57	18°29'25	23°39	23°49	5°24	21° 8	4°17	9°22	21°35	18° 0	22°49	22°R12	20°50	18°52	18°23	
M 9	3 21 54	19°30'18	5♂56	22°30	4°59	21°16	4° 9	9°26	21°33	18° 1	22°48	22°11	20°46	18°58	18°22	
T 10	3 25 50	20°31'13	18°26	21° 8	4°33	21°25	4° 2	9°30	21°30	18° 2	22°47	22° 9	20°43	19° 5	18°21	
W11	3 29 47	21°32'09	1II11	19°45	4° 5	21°32	3°54	9°34	21°27	18° 4	22°46	22° 5	20°40	19°12	18°20	
T 12	3 33 43	22°33'06	14°10	18°25	3°35	21°39	3°47	9°38	21°25	18° 5	22°45	22° 0	20°37	19°18	18°20	
F 13	3 37 40	23°34'05	27°23	17° 9	3° 4	21°45	3°40	9°41	21°22	18° 7	22°44	21°55	20°34	19°25	18°19	
S 14	3 41 36	24°35'04	10♂48	16° 1	2°31	21°50	3°33	9°45	21°20	18° 8	22°43	21°50	20°30	19°32	18°18	
S 15	3 45 33	25°36'05	24°25	15° 2	1°57	21°55	3°26	9°49	21°17	18°10	22°42	21°45	20°27	19°38	18°18	
M16	3 49 30	26°37'06	8♂12	14°13	1°21	21°59	3°19	9°52	21°15	18°11	22°41	21°42	20°24	19°45	18°17	
T 17	3 53 26	27°38'09	22° 9	13°35	0°46	22° 2	3°12	9°55	21°12	18°13	22°39	21°D41	20°21	19°52	18°16	
W18	3 57 23	28°39'13	6♂13	13° 8	0° 9	22° 4	3° 5	9°59	21°10	18°15	22°38	21°41	20°18	19°58	18°16	
T 19	4 1 19	29°40'18	20°25	12°53	29♂33	22° 6	2°59	10° 2	21° 7	18°16	22°37	21°42	20°15	20° 5	18°15	
F 20	4 5 16	0♂41'25	4♂42	12°D49	28°57	22° 7	2°52	10° 5	21° 5	18°18	22°36	21°43	20°11	20°12	18°15	
S 21	4 9 12	1°42'32	12°54	28°21	22°R 7	2°46	10° 8	21° 2	18°20	22°35	21°R44	20° 8	20°18	18°15		
S 22	4 13 9	2°43'40	3♂22	13° 9	27°45	22° 6	2°40	10°11	21° 0	18°21	22°34	21°44	20° 5	20°25	18°14	
M23	4 17 5	3°44'49	17°37	13°33	27°10	22° 4	2°34	10°13	20°57	18°23	22°33	21°41	20° 2	20°32	18°14	
T 24	4 21 2	4°45'59	1♂42	14° 4	26°37	22° 2	2°28	10°16	20°55	18°25	22°31	21°36	19°59	20°38	18°14	
W25	4 24 59	5°47'09	15°34	14°42	26° 4	21°59	2°22	10°18	20°52	18°27	22°30	21°30	19°56	20°45	18°14	
T 26	4 28 55	6°48'20	29° 7	15°26	25°33	21°55	2°17	10°21	20°50	18°28	22°29	21°22	19°52	20°52	18°14	
F 27	4 32 52	7°49'32	12♂20	16°16	25° 4	21°50	2°11	10°23	20°48	18°30	22°28	21°13	19°49	20°58	18°D14	
S 28	4 36 48	8°50'43	25°12	17°10	24°36	21°44	2° 6	10°25	20°45	18°32	22°27	21° 5	19°46	21° 5	18°14	
S 29	4 40 45	9°51'55	7♂44	18° 9	24°10	21°38	2° 1	10°28	20°43	18°34	22°26	20°58	19°43	21°12	18°14	
M30	4 44 41	10♂53'07	19♂58	19♂11	23♂47	21♂30	1♂56	10♂30	20♂41	18♂36	22♂24	20♂54	19♂40	21♂18	18♂14	

Delta T = 01h05m22s Julian Calendar 1 Nov. 683 == Greg. Calendar 4 Nov. 683

DECEMBER 683 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	4 48 38	11♂54'19	1♂59	20♂17	23°R25	21°R22	1°R52	10♂32	20°R38	18♂38	22°R23	20°R51	19°Y36	21°X25	18°X14	
W 2	4 52 34	12°55'31	13°51	21°26	23♂6	21♂13	1♂47	10°33	20°R36	18°40	22°R22	20°D51	19°33	21°32	18°14	
T 3	4 56 31	13°56'43	25°40	22°37	22°49	21° 3	1°43	10°35	20°34	18°41	22°21	20°Y51	19°30	21°38	18°15	
F 4	5 0 28	14°57'55	7°Y30	23°50	22°35	20°53	1°39	10°37	20°31	18°43	22°19	20°52	19°27	21°45	18°15	
S 5	5 4 24	15°59'07	19°28	25° 5	22°23	20°41	1°35	10°38	20°29	18°45	22°18	20°R53	19°24	21°52	18°15	
S 6	5 8 21	17° 0'19	1♂37	26°22	22°13	20°29	1°31	10°39	20°27	18°47	22°17	20°52	19°21	21°58	18°16	
M 7	5 12 17	18° 1'31	14° 2	27°41	22° 6	20°16	1°28	10°41	20°25	18°49	22°16	20°50	19°17	22° 5	18°16	
T 8	5 16 14	19° 2'43	26°46	29° 0	22° 2	20° 2	1°25	10°42	20°23	18°51	22°15	20°44	19°14	22°12	18°17	
W 9	5 20 10	20° 3'55	9II49	0♂22	22°D 0	19°47	1°22	10°43	20°21	18°53	22°13	20°37	19°11	22°18	18°17	
T 10	5 24 7	21° 5'07	23°11	1°44	22° 0	19°32	1°19	10°44	20°18	18°56	22°12	20°27	19° 8	22°25	18°18	
F 11	5 28 3	22° 6'19	6♂51	3° 7	22° 3	19°16	1°16	10°45	20°16	18°58	22°11	20°16	19° 5	22°32	18°19	
S 12	5 32 0	23° 7'31	20°44	4°31	22° 8	18°59	1°13	10°46	20°14	19° 0	22°10	20° 5	19° 2	22°38	18°20	
S 13	5 35 57	24° 8'43	4♂47	5°56	22°16	18°42	1°11	10°46	20°12	19° 2	22° 8	19°56	18°58	22°45	18°20	
M14	5 39 53	25° 9'55	18°55	7°22	22°26	18°24	1° 9	10°47	20°10	19° 4	22° 7	19°48	18°55	22°52	18°21	
T 15	5 43 50	26°11'07	3♂5	8°48	22°38	18° 5	1° 7	10°47	20° 9	19° 6	22° 6	19°43	18°52	22°58	18°22	
W16	5 47 46	27°12'19	17°13	10°15	22°52	17°45	1° 5	10°47	20° 7	19° 8	22° 5	19°41	18°49	23° 5	18°23	
T 17	5 51 43	28°13'31	1♂19	11°43	23° 9	17°25	1° 4	10°48	20° 5	19°10	22° 3	19°D41	18°46	23°12	18°24	
F 18	5 55 39	29°14'43	15°21	13°12	23°27	17° 5	1° 3	10°R48	20° 3	19°13	22° 2	19°R41	18°42	23°18	18°25	
S 19	5 59 36	0♂15'55	29°20	14°40	23°48	16°44	1° 1	10°48	20° 1	19°15	22° 1	19°41	18°39	23°25	18°26	
S 20	6 3 32	1°17'07	13♂13	16°10	24°10	16°22	1° 1	10°48	19°59	19°17	22° 0	19°39	18°36	23°32	18°28	
M21	6 7 29	2°18'19	27° 0	17°40	24°34	16° 0	1° 0	10°47	19°58	19°19	21°58	19°34	18°33	23°38	18°29	
T 22	6 11 26	3°19'31	10♂39	19°11	25° 0	15°37	0°59	10°47	19°56	19°21	21°57	19°26	18°30	23°45	18°30	
W23	6 15 22	4°20'42	24° 8	20°42	25°28	15°15	0°59	10°46	19°54	19°23	21°56	19°15	18°27	23°51	18°31	
T 24	6 19 19	5°21'53	7♂23	22°13	25°58	14°51	0°D59	10°46	19°53	19°26	21°55	19° 3	18°23	23°58	18°33	
F 25	6 23 15	6°23'03	20°23	23°46	26°28	14°28	0°59	10°45	19°51	19°28	21°54	18°49	18°20	24° 5	18°34	
S 26	6 27 12	7°24'12	3♂7	25°18	27° 1	14° 4	1° 0	10°44	19°50	19°30	21°52	18°36	18°17	24°11	18°36	
S 27	6 31 8	8°25'21	15°34	26°51	27°35	13°41	1° 0	10°43	19°48	19°32	21°51	18°24	18°14	24°18	18°37	
M28	6 35 5	9°26'29	27°46	28°25	28°10	13°17	1° 1	10°42	19°47	19°35	21°50	18°15	18°11	24°25	18°39	
T 29	6 39 2	10°27'36	9♂46	29°59	28°47	12°52	1° 2	10°41	19°46	19°37	21°49	18° 9	18° 8	24°31	18°40	
W30	6 42 58	11°28'41	21°38	1♂34	29°25	12°28	1° 3	10°40	19°44	19°39	21°48	18° 5	18° 4	24°38	18°42	
T 31	6 46 55	12♂29'46	3°Y25	3♂10	0♂4	12♂4	1♂5	10♂39	19♂43	19♂41	21♂47	18°Y 4	18°Y 1	24♂45	18♂44	

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