

SWISS EPHEMERIS for the year 1683

JANUARY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	6 42 55	10♁50'34	15♁41	20♁33	20♁29	12♁40	21°R12	19°R34	24°R12	25♁39	16°R17	14°D36	16♁ 8	24♁45	24°R39		
S 2	6 46 52	11°51'45	27°29	21°55	20°57	13° 7	21♁ 7	19♁30	24°D12	25°41	16♁16	14♁36	16° 5	24°51	24°V39		
S 3	6 50 49	12°52'56	9♁16	23°17	21°23	13°34	21° 2	19°27	24°V12	25°42	16°15	14°38	16° 1	24°58	24°39		
M 4	6 54 45	13°54'06	21° 5	24°40	21°48	14° 0	20°57	19°24	24°12	25°44	16°13	14°40	15°58	25° 5	24°D39		
T 5	6 58 42	14°55'16	3°V 1	26° 5	22°11	14°27	20°52	19°20	24°12	25°46	16°12	14°42	15°55	25°11	24°39		
W 6	7 2 38	15°56'25	15° 9	27°30	22°32	14°53	20°47	19°17	24°12	25°48	16°11	14°R42	15°52	25°18	24°39		
T 7	7 6 35	16°57'34	27°34	28°56	22°51	15°19	20°41	19°13	24°13	25°50	16° 9	14°42	15°49	25°25	24°39		
F 8	7 10 31	17°58'41	10♁22	0♁22	23° 8	15°45	20°36	19° 9	24°13	25°52	16° 8	14°40	15°45	25°31	24°39		
S 9	7 14 28	18°59'49	23°34	1°50	23°23	16°11	20°30	19° 5	24°13	25°53	16° 7	14°37	15°42	25°38	24°40		
S 10	7 18 24	20° 0'56	7♁14	3°18	23°35	16°36	20°24	19° 1	24°14	25°55	16° 6	14°33	15°39	25°45	24°40		
M 11	7 22 21	21° 2'02	21°21	4°46	23°46	17° 1	20°18	18°57	24°14	25°57	16° 4	14°30	15°36	25°51	24°40		
T 12	7 26 18	22° 3'07	5♁52	6°16	23°54	17°26	20°12	18°53	24°15	25°59	16° 3	14°26	15°33	25°58	24°41		
W 13	7 30 14	23° 4'12	20°42	7°45	23°59	17°51	20° 6	18°49	24°15	26° 1	16° 2	14°24	15°30	26° 5	24°41		
T 14	7 34 11	24° 5'16	5♁42	9°16	24° 3	18°15	19°59	18°45	24°16	26° 3	16° 0	14°23	15°26	26°11	24°42		
F 15	7 38 7	25° 6'20	20°44	10°47	24°R 4	18°39	19°53	18°41	24°16	26° 5	15°59	14°D23	15°23	26°18	24°43		
S 16	7 42 4	26° 7'23	5♁40	12°19	24° 2	19° 3	19°46	18°37	24°17	26° 7	15°58	14°24	15°20	26°24	24°43		
S 17	7 46 0	27° 8'25	20°22	13°51	23°58	19°26	19°39	18°32	24°18	26° 9	15°57	14°25	15°17	26°31	24°44		
M 18	7 49 57	28° 9'27	4♁45	15°24	23°51	19°49	19°32	18°28	24°19	26°11	15°55	14°26	15°14	26°38	24°45		
T 19	7 53 53	29°10'29	18°48	16°57	23°42	20°12	19°25	18°24	24°20	26°13	15°54	14°27	15°11	26°44	24°46		
W 20	7 57 50	0♁11'30	2♁29	18°31	23°31	20°35	19°18	18°19	24°20	26°15	15°53	14°R27	15° 7	26°51	24°47		
T 21	8 1 47	1°12'30	15°49	20° 6	23°17	20°57	19°11	18°15	24°21	26°18	15°52	14°27	15° 4	26°58	24°48		
F 22	8 5 43	2°13'30	28°50	21°41	23° 0	21°19	19° 4	18°10	24°22	26°20	15°50	14°26	15° 1	27° 4	24°49		
S 23	8 9 40	3°14'30	11♁34	23°17	22°41	21°41	18°56	18° 5	24°23	26°22	15°49	14°24	14°58	27°11	24°50		
S 24	8 13 36	4°15'28	24° 4	24°53	22°20	22° 2	18°49	18° 1	24°25	26°24	15°48	14°23	14°55	27°18	24°51		
M 25	8 17 33	5°16'26	6♁22	26°31	21°56	22°23	18°41	17°56	24°26	26°26	15°47	14°21	14°51	27°24	24°52		
T 26	8 21 29	6°17'23	18°29	28° 8	21°31	22°44	18°34	17°51	24°27	26°28	15°46	14°20	14°48	27°31	24°53		
W 27	8 25 26	7°18'19	0♁29	29°47	21° 3	23° 4	18°26	17°47	24°28	26°30	15°44	14°19	14°45	27°38	24°55		
T 28	8 29 22	8°19'14	12°22	1♁26	20°33	23°24	18°18	17°42	24°30	26°33	15°43	14°D19	14°42	27°44	24°56		
F 29	8 33 19	9°20'08	24°12	3° 6	20° 2	23°43	18°11	17°37	24°31	26°35	15°42	14°19	14°39	27°51	24°58		
S 30	8 37 16	10°21'01	5♁59	4°47	19°29	24° 3	18° 3	17°32	24°32	26°37	15°41	14°20	14°36	27°58	24°59		
S 31	8 41 12	11♁21'52	17♁47	6♁29	18♁55	24♁21	17♁55	17♁27	24°V34	26♁39	15♁40	14♁20	14♁32	28♁ 4	25°V 1		

Delta T = 12.65 sec. Greg. Calendar

FEBRUARY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	8 45 9	12♁22'42	29♁38	8♁11	18°R20	24♁40	17°R47	17°R23	24°V35	26♁41	15°R39	14♁20	14♁29	28♁11	25°V 2		
T 2	8 49 5	13°23'31	11°V35	9°54	17♁44	24°58	17♁39	17♁18	24°37	26°44	15♁37	14°21	14°26	28°17	25° 4		
W 3	8 53 2	14°24'18	23°44	11°38	17° 7	25°15	17°31	17°13	24°38	26°46	15°36	14°R21	14°23	28°24	25° 6		
T 4	8 56 58	15°25'03	6♁ 7	13°22	16°30	25°32	17°23	17° 8	24°40	26°48	15°35	14°21	14°20	28°31	25° 7		
F 5	9 0 55	16°25'47	18°49	15° 7	15°52	25°49	17°15	17° 3	24°42	26°50	15°34	14°D21	14°17	28°37	25° 9		
S 6	9 4 51	17°26'29	1♁53	16°54	15°15	26° 5	17° 7	16°58	24°43	26°53	15°33	14°21	14°13	28°44	25°11		
S 7	9 8 48	18°27'10	15°23	18°41	14°38	26°21	17° 0	16°53	24°45	26°55	15°32	14°21	14°10	28°51	25°13		
M 8	9 12 45	19°27'49	29°20	20°28	14° 2	26°36	16°52	16°48	24°47	26°57	15°31	14°21	14° 7	28°57	25°15		
T 9	9 16 41	20°28'27	13♁44	22°17	13°27	26°51	16°44	16°43	24°49	26°59	15°30	14°22	14° 4	29° 4	25°17		
W 10	9 20 38	21°29'03	28°32	24° 6	12°52	27° 5	16°36	16°39	24°51	27° 2	15°29	14°22	14° 1	29°11	25°19		
T 11	9 24 34	22°29'37	13♁37	25°56	12°19	27°19	16°28	16°34	24°53	27° 4	15°28	14°R23	13°57	29°17	25°21		
F 12	9 28 31	23°30'09	28°50	27°46	11°48	27°33	16°20	16°29	24°55	27° 6	15°27	14°22	13°54	29°24	25°24		
S 13	9 32 27	24°30'40	14♁ 3	29°37	11°18	27°45	16°12	16°24	24°57	27° 9	15°26	14°22	13°51	29°31	25°26		
S 14	9 36 24	25°31'10	29° 6	1♁29	10°51	27°58	16° 4	16°19	24°59	27°11	15°25	14°20	13°48	29°37	25°28		
M 15	9 40 20	26°31'38	13♁50	3°21	10°25	28°10	15°57	16°15	25° 1	27°13	15°24	14°19	13°45	29°44	25°30		
T 16	9 44 17	27°32'04	28° 9	5°13	10° 2	28°21	15°49	16°10	25° 3	27°15	15°23	14°17	13°42	29°51	25°33		
W 17	9 48 14	28°32'30	12♁ 2	7° 5	9°40	28°32	15°41	16° 5	25° 5	27°18	15°22	14°16	13°38	29°57	25°35		
T 18	9 52 10	29°32'54	25°27	8°57	9°21	28°42	15°34	16° 0	25° 8	27°20	15°21	14°D16	13°35	0♁ 4	25°38		
F 19	9 56 7	0♁33'17	8♁27	10°49	9° 5	28°51	15°26	15°56	25°10	27°22	15°21	14°16	13°32	0°11	25°40		
S 20	10 0 3	1°33'38	21° 6	12°40	8°51	29° 0	15°19	15°51	25°12	27°24	15°20	14°17	13°29	0°17	25°43		
S 21	10 4 0	2°33'58	3♁27	14°31	8°39	29° 9	15°12	15°47	25°15	27°27	15°19	14°18	13°26	0°24	25°45		
M 22	10 7 56	3°34'16	15°34	16°20	8°30	29°16	15° 4	15°42	25°17	27°29	15°18	14°20	13°23	0°30	25°48		
T 23	10 11 53	4°34'33	27°31	18° 7	8°24	29°23	14°57	15°38	25°19	27°31	15°17	14°21	13°19	0°37	25°51		
W 24	10 15 49	5°34'48	9♁22	19°53	8°20	29°30	14°50	15°33	25°22	27°34	15°17	14°R22	13°16	0°44	25°53		
T 25	10 19 46	6°35'02	21°10	21°36	8°D18	29°36	14°43	15°29	25°24	27°36	15°16	14°22	13°13	0°50	25°56		
F 26	10 23 43	7°35'13	2♁57	23°16	8°19	29°41	14°36	15°24	25°27	27°38	15°15	14°21	13°10	0°57	25°59		
S 27	10 27 39	8°35'23	14°46	24°53	8°22	29°45	14°30	15°20	25°30	27°40	15°14	14°18	13° 7	1° 4	26° 2		
S 28	10 31 36	9♁35'31	26♁38	26♁25	8♁27	29♁49	14♁23	15♁16	25°V32	27♁43	15♁14	14♁14	13♁ 3	1♁10	26°V 5		

Delta T = 12.60 sec. Greg. Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [13.11.2015]

SWISS EPHEMERIS for the year 1683

MARCH 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	10 35 32	10 ^h 35'37"	8 ^h 36'	27 ^h 53'	8 ^h 35'	29 ^h 52'	14 ^h R17	15 ^h R12	25 ^h 35'	27 ^h 45'	15 ^h R13	14 ^h R10	13 ^h Ω 0	1 ^h 17'	26 ^h 8'
T 2	10 39 29	11 ^h 35'41"	20 ^h 41'	29 ^h 16'	8 ^h 45'	29 ^h 55'	14 ^h Ω10	15 ^h Ω 8	25 ^h 37'	27 ^h 47'	15 ^h Ω12	14 ^h Ω 5	12 ^h 57'	1 ^h 24'	26 ^h 11'
W 3	10 43 25	12 ^h 35'43"	2 ^h 56'	0 ^h 33'	8 ^h 57'	29 ^h 56'	14 ^h 4	15 ^h 3	25 ^h 40'	27 ^h 49'	15 ^h 12	14 ^h 0	12 ^h 54'	1 ^h 30'	26 ^h 14'
T 4	10 47 22	13 ^h 35'43"	15 ^h 23'	1 ^h 43'	9 ^h 11'	29 ^h 57'	13 ^h 58'	14 ^h 59'	25 ^h 43'	27 ^h 51'	15 ^h 11	13 ^h 56'	12 ^h 51'	1 ^h 37'	26 ^h 17'
F 5	10 51 18	14 ^h 35'41"	28 ^h 5	2 ^h 47'	9 ^h 27'	29 ^h R58	13 ^h 52'	14 ^h 56'	25 ^h 46'	27 ^h 54'	15 ^h 11	13 ^h 54'	12 ^h 48'	1 ^h 44'	26 ^h 20'
S 6	10 55 15	15 ^h 35'37"	11 ^h II 5	3 ^h 44'	9 ^h 46'	29 ^h 57'	13 ^h 46'	14 ^h 52'	25 ^h 48'	27 ^h 56'	15 ^h 10	13 ^h D53	12 ^h 44'	1 ^h 50'	26 ^h 23'
S 7	10 59 12	16 ^h 35'30"	24 ^h 26'	4 ^h 33'	10 ^h 6	29 ^h 56'	13 ^h 40'	14 ^h 48'	25 ^h 51'	27 ^h 58'	15 ^h 10	13 ^h 53'	12 ^h 41'	1 ^h 57'	26 ^h 26'
M 8	11 3 8	17 ^h 35'21"	8 ^h Ω11	5 ^h 14'	10 ^h 28'	29 ^h 54'	13 ^h 35'	14 ^h 44'	25 ^h 54'	28 ^h 0	15 ^h 9	13 ^h 54'	12 ^h 38'	2 ^h 4	26 ^h 29'
T 9	11 7 5	18 ^h 35'10"	22 ^h 19'	5 ^h 47'	10 ^h 51'	29 ^h 51'	13 ^h 29'	14 ^h 41'	25 ^h 57'	28 ^h 2	15 ^h 9	13 ^h 55'	12 ^h 35'	2 ^h 10'	26 ^h 32'
W10	11 11 1	19 ^h 34'57"	6 ^h Ω51	6 ^h 11'	11 ^h 17'	29 ^h 48'	13 ^h 24'	14 ^h 37'	26 ^h 0	28 ^h 5	15 ^h 8	13 ^h R57	12 ^h 32'	2 ^h 17'	26 ^h 36'
T 11	11 14 58	20 ^h 34'41"	21 ^h 43'	6 ^h 27'	11 ^h 44'	29 ^h 44'	13 ^h 19'	14 ^h 34'	26 ^h 3	28 ^h 7	15 ^h 8	13 ^h 56'	12 ^h 28'	2 ^h 24'	26 ^h 39'
F 12	11 18 54	21 ^h 34'23"	6 ^h π50	6 ^h R34	12 ^h 13'	29 ^h 39'	13 ^h 14'	14 ^h 30'	26 ^h 6	28 ^h 9	15 ^h 7	13 ^h 55'	12 ^h 25'	2 ^h 30'	26 ^h 42'
S 13	11 22 51	22 ^h 34'03"	22 ^h 2	6 ^h 33'	12 ^h 43'	29 ^h 33'	13 ^h 9	14 ^h 27'	26 ^h 9	28 ^h 11	15 ^h 7	13 ^h 51'	12 ^h 22'	2 ^h 37'	26 ^h 46'
S 14	11 26 47	23 ^h 33'41"	7 ^h Ω 9	6 ^h 24'	13 ^h 15'	29 ^h 27'	13 ^h 5	14 ^h 24'	26 ^h 12'	28 ^h 13	15 ^h 6	13 ^h 46'	12 ^h 19'	2 ^h 44'	26 ^h 49'
M15	11 30 44	24 ^h 33'18"	22 ^h 3	6 ^h 7	13 ^h 48'	29 ^h 19'	13 ^h 0	14 ^h 20'	26 ^h 15'	28 ^h 15	15 ^h 6	13 ^h 40'	12 ^h 16'	2 ^h 50'	26 ^h 52'
T 16	11 34 40	25 ^h 32'52"	6 ^h π34	5 ^h 42'	14 ^h 22'	29 ^h 11'	12 ^h 56'	14 ^h 17'	26 ^h 18'	28 ^h 17	15 ^h 6	13 ^h 33'	12 ^h 13'	2 ^h 57'	26 ^h 56'
W17	11 38 37	26 ^h 32'24"	20 ^h 38'	5 ^h 11'	14 ^h 58'	29 ^h 2	12 ^h 52'	14 ^h 14'	26 ^h 21'	28 ^h 19	15 ^h 6	13 ^h 28'	12 ^h 9	3 ^h 3	26 ^h 59'
T 18	11 42 34	27 ^h 31'55"	4 ^h π13	4 ^h 34'	15 ^h 35'	28 ^h 53'	12 ^h 48'	14 ^h 12'	26 ^h 24'	28 ^h 21	15 ^h 5	13 ^h 23'	12 ^h 6	3 ^h 10'	27 ^h 3
F 19	11 46 30	28 ^h 31'24"	17 ^h 20'	3 ^h 52'	16 ^h 14'	28 ^h 43'	12 ^h 44'	14 ^h 9	26 ^h 27'	28 ^h 23	15 ^h 5	13 ^h 21'	12 ^h 3	3 ^h 17'	27 ^h 6
S 20	11 50 27	29 ^h 30'51"	0 ^h Ω 1	3 ^h 6	16 ^h 53'	28 ^h 31'	12 ^h 40'	14 ^h 6	26 ^h 30'	28 ^h 25	15 ^h 5	13 ^h D20	12 ^h 0	3 ^h 23'	27 ^h 10'
S 21	11 54 23	0 ^h 30'17"	12 ^h 21'	2 ^h 17'	17 ^h 34'	28 ^h 20'	12 ^h 37'	14 ^h 3	26 ^h 34'	28 ^h 27	15 ^h 5	13 ^h 21'	11 ^h 57'	3 ^h 30'	27 ^h 13'
M22	11 58 20	1 ^h 29'40"	24 ^h 25'	1 ^h 26'	18 ^h 16'	28 ^h 7	12 ^h 34'	14 ^h 1	26 ^h 37'	28 ^h 29	15 ^h 4	13 ^h 22'	11 ^h 54'	3 ^h 37'	27 ^h 17'
T 23	12 2 16	2 ^h 29'02"	6 ^h π19	0 ^h 34'	18 ^h 59'	27 ^h 54'	12 ^h 31'	13 ^h 59'	26 ^h 40'	28 ^h 31	15 ^h 4	13 ^h 23'	11 ^h 50'	3 ^h 43'	27 ^h 20'
W24	12 6 13	3 ^h 28'22"	18 ^h 7	29 ^h π43	19 ^h 42'	27 ^h 40'	12 ^h 28'	13 ^h 56'	26 ^h 43'	28 ^h 33	15 ^h 4	13 ^h R23	11 ^h 47'	3 ^h 50'	27 ^h 24'
T 25	12 10 9	4 ^h 27'40"	29 ^h 52'	28 ^h 52'	20 ^h 27'	27 ^h 25'	12 ^h 25'	13 ^h 54'	26 ^h 46'	28 ^h 35	15 ^h 4	13 ^h 22'	11 ^h 44'	3 ^h 57'	27 ^h 28'
F 26	12 14 6	5 ^h 26'56"	11 ^h π40	28 ^h 4	21 ^h 13'	27 ^h 9	12 ^h 23'	13 ^h 52'	26 ^h 50'	28 ^h 37	15 ^h 4	13 ^h 18'	11 ^h 41'	4 ^h 3	27 ^h 31'
S 27	12 18 3	6 ^h 26'10"	23 ^h 33'	27 ^h 18'	21 ^h 59'	26 ^h 53'	12 ^h 20'	13 ^h 50'	26 ^h 53'	28 ^h 39	15 ^h 4	13 ^h 11'	11 ^h 38'	4 ^h 10'	27 ^h 35'
S 28	12 21 59	7 ^h 25'22"	5 ^h π33	26 ^h 36'	22 ^h 47'	26 ^h 36'	12 ^h 18'	13 ^h 48'	26 ^h 56'	28 ^h 41	15 ^h 4	13 ^h 3	11 ^h 34'	4 ^h 17'	27 ^h 39'
M29	12 25 56	8 ^h 24'32"	17 ^h 41'	25 ^h 59'	23 ^h 35'	26 ^h 19'	12 ^h 16'	13 ^h 46'	27 ^h 0	28 ^h 43	15 ^h D 4	12 ^h 53'	11 ^h 31'	4 ^h 23'	27 ^h 42'
T 30	12 29 52	9 ^h 23'40"	29 ^h 59'	25 ^h 26'	24 ^h 24'	26 ^h 1	12 ^h 14'	13 ^h 44'	27 ^h 3	28 ^h 45	15 ^h 4	12 ^h 42'	11 ^h 28'	4 ^h 30'	27 ^h 46'
W31	12 33 49	10 ^h 22'46"	12 ^h Ω28	24 ^h π58	25 ^h π13	25 ^h Ω42	12 ^h Ω13	13 ^h Ω43	27 ^h π 6	28 ^h π47	15 ^h Ω 4	12 ^h Ω32	11 ^h Ω25	4 ^h π37	27 ^h π50

Delta T = 12.55 sec.

Greg. Calendar

APRIL 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 37 45	11 ^h π21'50"	25 ^h Ω 7	24 ^h R36	26 ^h π 4	25 ^h R23	12 ^h R11	13 ^h R41	27 ^h π10	28 ^h π48	15 ^h Ω 4	12 ^h R22	11 ^h Ω22	4 ^h π43	27 ^h π54
F 2	12 41 42	12 ^h 20'51"	7 ^h π59	24 ^h π19	26 ^h 55'	25 ^h Ω 3	12 ^h Ω10	13 ^h Ω40	27 ^h 13'	28 ^h 50'	15 ^h 4	12 ^h Ω15	11 ^h 19'	4 ^h 50'	27 ^h 57'
S 3	12 45 38	13 ^h 19'51"	21 ^h 5	24 ^h 7	27 ^h 46'	24 ^h 43'	12 ^h 9	13 ^h 38'	27 ^h 16'	28 ^h 52'	15 ^h 4	12 ^h 11'	11 ^h 15'	4 ^h 57'	28 ^h 1
S 4	12 49 35	14 ^h 18'48"	4 ^h Ω26	24 ^h 1	28 ^h 39'	24 ^h 23'	12 ^h 8	13 ^h 37'	27 ^h 20'	28 ^h 54'	15 ^h 4	12 ^h 8	11 ^h 12'	5 ^h 3	28 ^h 5
M 5	12 53 32	15 ^h 17'42"	18 ^h 3	24 ^h D 0	29 ^h 32'	24 ^h 2	12 ^h 8	13 ^h 36'	27 ^h 23'	28 ^h 55'	15 ^h 5	12 ^h D 8	11 ^h 9	5 ^h 10'	28 ^h 9
T 6	12 57 28	16 ^h 16'35"	2 ^h Ω 0	24 ^h 5	0 ^h π25	23 ^h 41'	12 ^h 7	13 ^h 35'	27 ^h 26'	28 ^h 57'	15 ^h 5	12 ^h 8	11 ^h 6	5 ^h 17'	28 ^h 13'
W 7	13 1 25	17 ^h 15'25"	16 ^h 15'	24 ^h 15'	1 ^h 19'	23 ^h 19'	12 ^h 7	13 ^h 34'	27 ^h 30'	28 ^h 59'	15 ^h 5	12 ^h R 9	11 ^h 3	5 ^h 23'	28 ^h 16'
T 8	13 5 21	18 ^h 14'12"	0 ^h π47	24 ^h 30'	2 ^h 14'	22 ^h 57'	12 ^h D 7	13 ^h 34'	27 ^h 33'	29 ^h 0	15 ^h 5	12 ^h 7	10 ^h 59'	5 ^h 30'	28 ^h 20'
F 9	13 9 18	19 ^h 12'58"	15 ^h 33'	24 ^h 49'	3 ^h 9	22 ^h 35'	12 ^h 7	13 ^h 33'	27 ^h 37'	29 ^h 2	15 ^h 5	12 ^h 4	10 ^h 56'	5 ^h 37'	28 ^h 24'
S 10	13 13 14	20 ^h 11'41"	0 ^h Ω28	25 ^h 13'	4 ^h 5	22 ^h 12'	12 ^h 7	13 ^h 32'	27 ^h 40'	29 ^h 4	15 ^h 6	11 ^h 58'	10 ^h 53'	5 ^h 43'	28 ^h 28'
S 11	13 17 11	21 ^h 10'22"	15 ^h 22'	25 ^h 42'	5 ^h 1	21 ^h 50'	12 ^h 8	13 ^h 32'	27 ^h 44'	29 ^h 5	15 ^h 6	11 ^h 49'	10 ^h 50'	5 ^h 50'	28 ^h 32'
M12	13 21 7	22 ^h 9'01"	0 ^h π 8	26 ^h 15'	5 ^h 58'	21 ^h 27'	12 ^h 9	13 ^h 32'	27 ^h 47'	29 ^h 7	15 ^h 6	11 ^h 39'	10 ^h 47'	5 ^h 57'	28 ^h 36'
T 13	13 25 4	23 ^h 7'38"	14 ^h 37'	26 ^h 52'	6 ^h 55'	21 ^h 5	12 ^h 10'	13 ^h 31'	27 ^h 50'	29 ^h 8	15 ^h 7	11 ^h 28'	10 ^h 44'	6 ^h 3	28 ^h 39'
W14	13 29 0	24 ^h 6'13"	28 ^h 42'	27 ^h 33'	7 ^h 52'	20 ^h 42'	12 ^h 11'	13 ^h 31'	27 ^h 54'	29 ^h 10'	15 ^h 7	11 ^h 18'	10 ^h 40'	6 ^h 10'	28 ^h 43'
T 15	13 32 57	25 ^h 4'47"	12 ^h π21	28 ^h 17'	8 ^h 50'	20 ^h 19'	12 ^h 12'	13 ^h D31	27 ^h 57'	29 ^h 11'	15 ^h 8	11 ^h 9	10 ^h 37'	6 ^h 17'	28 ^h 47'
F 16	13 36 54	26 ^h 3'19"	25 ^h 32'	29 ^h 5	9 ^h 49'	19 ^h 56'	12 ^h 13'	13 ^h 31'	28 ^h 1	29 ^h 13					

SWISS EPHEMERIS for the year 1683

MAY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
S 1	14 36 2	10♁37'59	1♁24	16♁39	25♁6	14°R52	12♁56	13♁45	28♁52	29♁31	15♁17	9°R25	9♁46	8♁3	29♁49
S 2	14 39 58	11°36'04	14°57	18° 8	26° 9	14♁36	13° 0	13°47	28°56	29°32	15°18	9♁21	9°43	8°10	29°53
M 3	14 43 55	12°34'07	28°39	19°39	27°12	14°20	13° 4	13°49	28°59	29°33	15°19	9°20	9°40	8°16	29°57
T 4	14 47 52	13°32'08	12♁34	21°12	28°16	14° 5	13° 9	13°51	29° 2	29°34	15°20	9°20	9°37	8°23	0♁ 1
W 5	14 51 48	14°30'07	26°39	22°47	29°20	13°51	13°14	13°53	29° 6	29°35	15°21	9°19	9°34	8°30	0° 5
T 6	14 55 45	15°28'04	10♁55	24°24	0♁24	13°38	13°19	13°55	29° 9	29°36	15°21	9°18	9°31	8°36	0° 8
F 7	14 59 41	16°25'59	25°20	26° 3	1°29	13°25	13°24	13°58	29°12	29°37	15°22	9°14	9°27	8°43	0°12
S 8	15 3 38	17°23'52	9♁51	27°44	2°33	13°14	13°29	14° 0	29°16	29°38	15°23	9° 7	9°24	8°50	0°16
S 9	15 7 34	18°21'43	24°21	29°27	3°38	13° 2	13°34	14° 3	29°19	29°38	15°24	8°58	9°21	8°56	0°20
M10	15 11 31	19°19'33	8♁45	1♁12	4°43	12°52	13°40	14° 5	29°22	29°39	15°25	8°47	9°18	9° 3	0°23
T 11	15 15 27	20°17'22	22°56	2°59	5°48	12°43	13°45	14° 8	29°26	29°40	15°26	8°36	9°15	9°10	0°27
W12	15 19 24	21°15'09	6♁49	4°48	6°54	12°34	13°51	14°11	29°29	29°40	15°27	8°25	9°11	9°16	0°31
T 13	15 23 21	22°12'54	20°20	6°40	7°59	12°26	13°57	14°14	29°32	29°41	15°28	8°16	9° 8	9°23	0°35
F 14	15 27 17	23°10'39	3♁28	8°33	9° 5	12°19	14° 3	14°17	29°35	29°42	15°29	8° 9	9° 5	9°30	0°38
S 15	15 31 14	24° 8'22	16°12	10°28	10°11	12°13	14° 9	14°20	29°39	29°42	15°30	8° 5	9° 2	9°36	0°42
S 16	15 35 10	25° 6'04	28°36	12°25	11°17	12° 7	14°15	14°23	29°42	29°43	15°31	8° 3	8°59	9°43	0°45
M17	15 39 7	26° 3'45	10♁44	14°24	12°23	12° 3	14°22	14°26	29°45	29°43	15°32	8°D 3	8°56	9°50	0°49
T 18	15 43 3	27° 1'25	22°40	16°25	13°29	11°59	14°29	14°29	29°48	29°44	15°34	8°R 3	8°52	9°56	0°53
W19	15 47 0	27°59'04	4♁31	18°28	14°36	11°56	14°35	14°33	29°51	29°44	15°35	8° 3	8°49	10° 3	0°56
T 20	15 50 56	28°56'42	16°20	20°32	15°42	11°54	14°42	14°36	29°54	29°45	15°36	8° 1	8°46	10°10	1° 0
F 21	15 54 53	29°54'19	28°14	22°38	16°49	11°52	14°49	14°40	29°58	29°45	15°37	7°58	8°43	10°16	1° 3
S 22	15 58 50	0♁51'55	10♁17	24°46	17°56	11°D51	14°56	14°44	0♁ 1	29°46	15°38	7°52	8°40	10°23	1° 7
S 23	16 2 46	1°49'30	22°32	26°55	19° 3	11°52	15° 4	14°47	0° 4	29°46	15°39	7°43	8°36	10°30	1°10
M24	16 6 43	2°47'04	5♁ 3	29° 4	20°10	11°52	15°11	14°51	0° 7	29°46	15°40	7°33	8°33	10°36	1°14
T 25	16 10 39	3°44'37	17°51	1♁15	21°17	11°54	15°19	14°55	0°10	29°47	15°42	7°22	8°30	10°43	1°17
W26	16 14 36	4°42'09	0♁55	3°27	22°24	11°57	15°26	14°59	0°13	29°47	15°43	7°12	8°27	10°50	1°21
T 27	16 18 32	5°39'40	14°15	5°39	23°32	12° 0	15°34	15° 4	0°16	29°47	15°44	7° 2	8°24	10°56	1°24
F 28	16 22 29	6°37'10	27°48	7°51	24°40	12° 4	15°42	15° 8	0°19	29°47	15°45	6°55	8°21	11° 3	1°27
S 29	16 26 25	7°34'38	11♁32	10° 3	25°47	12° 8	15°50	15°12	0°22	29°47	15°47	6°50	8°17	11°10	1°31
S 30	16 30 22	8°32'06	25°26	12°14	26°55	12°14	15°58	15°16	0°25	29°47	15°48	6°47	8°14	11°16	1°34
M31	16 34 19	9♁29'33	9♁25	14♁25	28♁ 3	12♁20	16♁ 7	15♁21	0♁27	29♁47	15♁49	6°D47	8♁11	11♁23	1♁37

Delta T = 12.42 sec. Greg. Calendar

JUNE 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	16 38 15	10♁26'58	23♁29	16♁35	29♁11	12♁27	16♁15	15♁26	0♁30	29♁47	15♁51	6♁47	8♁ 8	11♁30	1♁41
W 2	16 42 12	11°24'22	7♁37	18°44	0♁19	12°34	16°23	15°30	0°33	29°R47	15°52	6°R48	8° 5	11°36	1°44
T 3	16 46 8	12°21'45	21°47	20°51	1°27	12°43	16°32	15°35	0°36	29°47	15°53	6°48	8° 2	11°43	1°47
F 4	16 50 5	13°19'07	5♁58	22°57	2°36	12°52	16°41	15°40	0°39	29°47	15°55	6°45	7°58	11°50	1°50
S 5	16 54 1	14°16'27	20° 7	25° 1	3°44	13° 1	16°50	15°45	0°41	29°47	15°56	6°41	7°55	11°56	1°53
S 6	16 57 58	15°13'47	4♁12	27° 3	4°52	13°11	16°59	15°49	0°44	29°47	15°57	6°35	7°52	12° 3	1°56
M 7	17 1 54	16°11'05	18° 9	29° 3	6° 1	13°22	17° 8	15°54	0°47	29°47	15°59	6°28	7°49	12°10	1°59
T 8	17 5 51	17° 8'23	17°55	1♁ 1	7°10	13°34	17°17	16° 0	0°49	29°47	16° 0	6°19	7°46	12°16	2° 2
W 9	17 9 48	18° 5'40	15°25	2°57	8°18	13°46	17°26	16° 5	0°52	29°47	16° 2	6°12	7°42	12°23	2° 5
T 10	17 13 44	19° 2'57	28°39	4°50	9°27	13°59	17°35	16°10	0°54	29°46	16° 3	6° 5	7°39	12°30	2° 8
F 11	17 17 41	20° 0'13	11♁34	6°41	10°36	14°12	17°45	16°15	0°57	29°46	16° 5	6° 1	7°36	12°36	2°11
S 12	17 21 37	20°57'28	24°10	8°30	11°45	14°26	17°54	16°21	0°59	29°46	16° 6	5°58	7°33	12°43	2°14
S 13	17 25 34	21°54'43	6♁30	10°17	12°54	14°40	18° 4	16°26	1° 2	29°45	16° 7	5°D58	7°30	12°50	2°17
M14	17 29 30	22°51'58	18°37	12° 1	14° 3	14°55	18°14	16°32	1° 4	29°45	16° 9	5°58	7°27	12°56	2°20
T 15	17 33 27	23°49'13	0♁33	13°43	15°13	15°11	18°24	16°37	1° 7	29°45	16°10	6° 0	7°23	13° 3	2°22
W16	17 37 23	24°46'27	12°24	15°22	16°22	15°27	18°34	16°43	1° 9	29°44	16°12	6° 1	7°20	13°10	2°25
T 17	17 41 20	25°43'41	24°15	16°59	17°31	15°44	18°44	16°48	1°11	29°44	16°13	6°R 2	7°17	13°16	2°28
F 18	17 45 17	26°40'54	6♁10	18°34	18°41	16° 1	18°54	16°54	1°14	29°43	16°15	6° 1	7°14	13°23	2°30
S 19	17 49 13	27°38'08	18°15	20° 6	19°50	16°19	19° 4	17° 0	1°16	29°43	16°16	5°59	7°11	13°30	2°33
S 20	17 53 10	28°35'22	0♁34	21°36	21° 0	16°37	19°14	17° 6	1°18	29°42	16°18	5°56	7° 8	13°36	2°36
M21	17 57 6	29°32'35	13°10	23° 3	22°10	16°56	19°25	17°12	1°20	29°42	16°19	5°51	7° 4	13°43	2°38
T 22	18 1 3	0♁29'49	26° 6	24°27	23°20	17°15	19°35	17°18	1°23	29°41	16°21	5°45	7° 1	13°50	2°41
W23	18 4 59	1°27'02	9♁23	25°50	24°30	17°35	19°46	17°24	1°25	29°40	16°23	5°40	6°58	13°56	2°43
T 24	18 8 56	2°24'16	23° 0	27° 9	25°39	17°55	19°56	17°30	1°27	29°40	16°24	5°35	6°55	14° 3	2°45
F 25	18 12 53	3°21'29	6♁55	28°26	26°49	18°15	20° 7	17°36	1°29	29°39	16°26	5°31	6°52	14°10	2°48
S 26	18 16 49	4°18'42	21° 4	29°40	28° 0	18°36	20°18	17°42	1°31	29°38	16°27	5°29	6°48	14°17	2°50
S 27	18 20 46	5°15'55	5♁23	0♁52	29°10	18°58	20°28	17°49	1°33	29°37	16°29	5°D28	6°45	14°23	2°52
M28	18 24 42	6°13'08	19°47	2° 1	0♁20	19°20	20°39	17°55	1°35	29°37	16°30	5°29	6°42	14°30	2°55
T 29	18 28 39	7°10'20	4♁11	3° 7	1°30	19°42	20°50	18° 1	1°37	29°36	16°32	5°30	6°39	14°37	2°57
W30	18 32 35	8♁ 7'32	18♁32	4♁10	2♁40	20♁ 5	21♁ 1	18♁ 8	1♁38	29♁35	16♁33	5♁31	6♁36	14♁43	2♁59

Delta T = 12.34 sec. Greg. Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [13.11.2015]

SWISS EPHEMERIS for the year 1683

JULY 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	18 36 32	9 ^h 44'	2 ^h 47'	5 ^h 10'	3 ^h 51'	20 ^h 28'	21 ^h 13'	18 ^h 14'	1 ^h 40'	29 ^h R34	16 ^h 35'	5 ^h R32	6 ^h 33'	14 ^h 50'	3 ^h 8'
F 2	18 40 28	10 ^h 1'56"	16 ^h 54'	6 ^h 6'	5 ^h 1'	20 ^h 52'	21 ^h 24'	18 ^h 21'	1 ^h 42'	29 ^h 33'	16 ^h 37'	5 ^h 32'	6 ^h 29'	14 ^h 57'	3 ^h 3'
S 3	18 44 25	10 ^h 59'07"	0 ^h 51'	7 ^h 0'	6 ^h 12'	21 ^h 16'	21 ^h 35'	18 ^h 27'	1 ^h 44'	29 ^h 32'	16 ^h 38'	5 ^h 31'	6 ^h 26'	15 ^h 3'	3 ^h 5'
S 4	18 48 22	11 ^h 56'18"	14 ^h 36'	7 ^h 50'	7 ^h 22'	21 ^h 40'	21 ^h 46'	18 ^h 34'	1 ^h 45'	29 ^h 31'	16 ^h 40'	5 ^h 29'	6 ^h 23'	15 ^h 10'	3 ^h 7'
M 5	18 52 18	12 ^h 53'29"	28 ^h 10'	8 ^h 37'	8 ^h 33'	22 ^h 5'	21 ^h 58'	18 ^h 41'	1 ^h 47'	29 ^h 30'	16 ^h 41'	5 ^h 26'	6 ^h 20'	15 ^h 17'	3 ^h 9'
T 6	18 56 15	13 ^h 50'41"	11 ^h 30'	9 ^h 20'	9 ^h 44'	22 ^h 30'	22 ^h 9'	18 ^h 47'	1 ^h 48'	29 ^h 29'	16 ^h 43'	5 ^h 23'	6 ^h 17'	15 ^h 23'	3 ^h 10'
W 7	19 0 11	14 ^h 47'52"	24 ^h 36'	9 ^h 59'	10 ^h 54'	22 ^h 56'	22 ^h 21'	18 ^h 54'	1 ^h 50'	29 ^h 28'	16 ^h 44'	5 ^h 20'	6 ^h 14'	15 ^h 30'	3 ^h 12'
T 8	19 4 8	15 ^h 45'03"	7 ^h 38'	10 ^h 34'	12 ^h 5'	23 ^h 22'	22 ^h 32'	19 ^h 1'	1 ^h 51'	29 ^h 27'	16 ^h 46'	5 ^h 17'	6 ^h 10'	15 ^h 37'	3 ^h 14'
F 9	19 8 4	16 ^h 42'15"	20 ^h 5'	11 ^h 6'	13 ^h 16'	23 ^h 48'	22 ^h 44'	19 ^h 8'	1 ^h 53'	29 ^h 26'	16 ^h 48'	5 ^h 16'	6 ^h 7'	15 ^h 43'	3 ^h 16'
S 10	19 12 1	17 ^h 39'27"	2 ^h 29'	11 ^h 33'	14 ^h 27'	24 ^h 14'	22 ^h 56'	19 ^h 15'	1 ^h 54'	29 ^h 25'	16 ^h 49'	5 ^h D15	6 ^h 4'	15 ^h 50'	3 ^h 17'
S 11	19 15 57	18 ^h 36'39"	14 ^h 41'	11 ^h 56'	15 ^h 38'	24 ^h 41'	23 ^h 7'	19 ^h 22'	1 ^h 56'	29 ^h 24'	16 ^h 51'	5 ^h 15'	6 ^h 1'	15 ^h 57'	3 ^h 19'
M 12	19 19 54	19 ^h 33'52"	26 ^h 42'	12 ^h 14'	16 ^h 49'	25 ^h 8'	23 ^h 19'	19 ^h 29'	1 ^h 57'	29 ^h 23'	16 ^h 52'	5 ^h 16'	5 ^h 58'	16 ^h 3'	3 ^h 20'
T 13	19 23 51	20 ^h 31'05"	8 ^h 37'	12 ^h 28'	18 ^h 0'	25 ^h 36'	23 ^h 31'	19 ^h 36'	1 ^h 58'	29 ^h 22'	16 ^h 54'	5 ^h 18'	5 ^h 54'	16 ^h 10'	3 ^h 22'
W 14	19 27 47	21 ^h 28'19"	20 ^h 27'	12 ^h 37'	19 ^h 11'	26 ^h 4'	23 ^h 43'	19 ^h 43'	1 ^h 59'	29 ^h 20'	16 ^h 56'	5 ^h 19'	5 ^h 51'	16 ^h 17'	3 ^h 23'
T 15	19 31 44	22 ^h 25'34"	2 ^h 18'	12 ^h R41	20 ^h 22'	26 ^h 32'	23 ^h 55'	19 ^h 50'	2 ^h 0'	29 ^h 19'	16 ^h 57'	5 ^h 20'	5 ^h 48'	16 ^h 23'	3 ^h 24'
F 16	19 35 40	23 ^h 22'49"	14 ^h 13'	12 ^h 41'	21 ^h 34'	27 ^h 0'	24 ^h 7'	19 ^h 57'	2 ^h 2'	29 ^h 18'	16 ^h 59'	5 ^h 21'	5 ^h 45'	16 ^h 30'	3 ^h 26'
S 17	19 39 37	24 ^h 20'05"	26 ^h 17'	12 ^h 35'	22 ^h 45'	27 ^h 29'	24 ^h 19'	20 ^h 4'	2 ^h 3'	29 ^h 17'	17 ^h 0'	5 ^h R21	5 ^h 42'	16 ^h 37'	3 ^h 27'
S 18	19 43 33	25 ^h 17'22"	8 ^h 35'	12 ^h 25'	23 ^h 56'	27 ^h 58'	24 ^h 31'	20 ^h 11'	2 ^h 4'	29 ^h 15'	17 ^h 2'	5 ^h 20'	5 ^h 39'	16 ^h 43'	3 ^h 28'
M 19	19 47 30	26 ^h 14'40"	21 ^h 11'	12 ^h 9'	25 ^h 8'	28 ^h 28'	24 ^h 43'	20 ^h 18'	2 ^h 5'	29 ^h 14'	17 ^h 3'	5 ^h 20'	5 ^h 35'	16 ^h 50'	3 ^h 29'
T 20	19 51 26	27 ^h 11'59"	4 ^h 11'	11 ^h 49'	26 ^h 19'	28 ^h 57'	24 ^h 56'	20 ^h 26'	2 ^h 6'	29 ^h 13'	17 ^h 5'	5 ^h 19'	5 ^h 32'	16 ^h 57'	3 ^h 30'
W 21	19 55 23	28 ^h 9'19"	17 ^h 30'	11 ^h 25'	27 ^h 31'	29 ^h 27'	25 ^h 8'	20 ^h 33'	2 ^h 6'	29 ^h 11'	17 ^h 7'	5 ^h 18'	5 ^h 29'	17 ^h 3'	3 ^h 31'
T 22	19 59 20	29 ^h 6'40"	1 ^h 51'	10 ^h 55'	28 ^h 43'	29 ^h 57'	25 ^h 20'	20 ^h 40'	2 ^h 7'	29 ^h 10'	17 ^h 8'	5 ^h 17'	5 ^h 26'	17 ^h 10'	3 ^h 32'
F 23	20 3 16	0 ^h 41'	15 ^h 24'	10 ^h 22'	29 ^h 54'	0 ^h 28'	25 ^h 32'	20 ^h 47'	2 ^h 8'	29 ^h 9'	17 ^h 10'	5 ^h 17'	5 ^h 23'	17 ^h 17'	3 ^h 33'
S 24	20 7 13	1 ^h 1'24"	29 ^h 52'	9 ^h 46'	1 ^h 6'	0 ^h 59'	25 ^h 45'	20 ^h 55'	2 ^h 9'	29 ^h 7'	17 ^h 11'	5 ^h D16	5 ^h 20'	17 ^h 23'	3 ^h 34'
S 25	20 11 9	1 ^h 58'47"	14 ^h 33'	9 ^h 6'	2 ^h 18'	1 ^h 30'	25 ^h 57'	21 ^h 2'	2 ^h 9'	29 ^h 6'	17 ^h 13'	5 ^h 17'	5 ^h 16'	17 ^h 30'	3 ^h 35'
M 26	20 15 6	2 ^h 56'11"	29 ^h 22'	8 ^h 24'	3 ^h 30'	2 ^h 1'	26 ^h 10'	21 ^h 10'	2 ^h 10'	29 ^h 5'	17 ^h 14'	5 ^h 17'	5 ^h 13'	17 ^h 37'	3 ^h 36'
T 27	20 19 2	3 ^h 53'35"	14 ^h 11'	7 ^h 40'	4 ^h 42'	2 ^h 33'	26 ^h 22'	21 ^h 17'	2 ^h 11'	29 ^h 3'	17 ^h 16'	5 ^h 17'	5 ^h 10'	17 ^h 44'	3 ^h 36'
W 28	20 22 59	4 ^h 51'00"	28 ^h 53'	6 ^h 54'	5 ^h 54'	3 ^h 4'	26 ^h 35'	21 ^h 24'	2 ^h 11'	29 ^h 2'	17 ^h 17'	5 ^h R17	5 ^h 7'	17 ^h 50'	3 ^h 37'
T 29	20 26 55	5 ^h 48'26"	13 ^h 23'	6 ^h 9'	7 ^h 6'	3 ^h 36'	26 ^h 47'	21 ^h 32'	2 ^h 12'	29 ^h 0'	17 ^h 19'	5 ^h 17'	5 ^h 4'	17 ^h 57'	3 ^h 38'
F 30	20 30 52	6 ^h 45'52"	27 ^h 36'	5 ^h 24'	8 ^h 18'	4 ^h 9'	27 ^h 0'	21 ^h 39'	2 ^h 12'	28 ^h 59'	17 ^h 20'	5 ^h 17'	5 ^h 0'	18 ^h 4'	3 ^h 38'
S 31	20 34 49	7 ^h 43'19"	11 ^h 30'	4 ^h 40'	9 ^h 30'	4 ^h 41'	27 ^h 12'	21 ^h 47'	2 ^h 12'	28 ^h 57'	17 ^h 22'	5 ^h D17	4 ^h 57'	18 ^h 10'	3 ^h 39'

Delta T = 12.26 sec.

Greg. Calendar

AUGUST 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	20 38 45	8 ^h 40'47"	25 ^h 11'	3 ^h R59	10 ^h 42'	5 ^h 11'	27 ^h 25'	21 ^h 54'	2 ^h 13'	28 ^h R56	17 ^h 23'	5 ^h D17	4 ^h 54'	18 ^h 17'	3 ^h 39'
M 2	20 42 42	9 ^h 38'16"	8 ^h 24'	3 ^h R20	11 ^h 54'	5 ^h 47'	27 ^h 38'	22 ^h 2'	2 ^h 13'	28 ^h 54'	17 ^h 25'	5 ^h 17'	4 ^h 51'	18 ^h 24'	3 ^h 39'
T 3	20 46 38	10 ^h 35'45"	21 ^h 24'	2 ^h 46'	13 ^h 6'	6 ^h 20'	27 ^h 51'	22 ^h 9'	2 ^h 13'	28 ^h 53'	17 ^h 26'	5 ^h 18'	4 ^h 48'	18 ^h 30'	3 ^h 40'
W 4	20 50 35	11 ^h 33'16"	4 ^h 39'	2 ^h 16'	14 ^h 19'	6 ^h 54'	28 ^h 3'	22 ^h 17'	2 ^h 14'	28 ^h 51'	17 ^h 28'	5 ^h 18'	4 ^h 45'	18 ^h 37'	3 ^h 40'
T 5	20 54 31	12 ^h 30'47"	16 ^h 41'	1 ^h 51'	15 ^h 31'	7 ^h 28'	28 ^h 16'	22 ^h 24'	2 ^h 14'	28 ^h 50'	17 ^h 29'	5 ^h 19'	4 ^h 41'	18 ^h 44'	3 ^h 40'
F 6	20 58 28	13 ^h 28'19"	29 ^h 1'	1 ^h 31'	16 ^h 43'	8 ^h 1'	28 ^h 29'	22 ^h 32'	2 ^h 14'	28 ^h 48'	17 ^h 31'	5 ^h 19'	4 ^h 38'	18 ^h 50'	3 ^h 40'
S 7	21 2 24	14 ^h 25'52"	11 ^h 11'	1 ^h 18'	17 ^h 56'	8 ^h 36'	28 ^h 42'	22 ^h 40'	2 ^h R14	28 ^h 46'	17 ^h 32'	5 ^h R19	4 ^h 35'	18 ^h 57'	3 ^h R40
S 8	21 6 21	15 ^h 23'27"	23 ^h 14'	1 ^h D12	19 ^h 8'	9 ^h 10'	28 ^h 54'	22 ^h 47'	2 ^h 14'	28 ^h 45'	17 ^h 34'	5 ^h 19'	4 ^h 32'	19 ^h 4'	3 ^h 40'
M 9	21 10 18	16 ^h 21'02"	5 ^h 39'	1 ^h 12'	20 ^h 21'	9 ^h 44'	29 ^h 7'	22 ^h 55'	2 ^h 14'	28 ^h 43'	17 ^h 35'	5 ^h 18'	4 ^h 29'	19 ^h 10'	3 ^h 40'
T 10	21 14 14	17 ^h 18'39"	17 ^h 1'	1 ^h 20'	21 ^h 34'	10 ^h 19'	29 ^h 20'	23 ^h 2'	2 ^h 14'	28 ^h 42'	17 ^h 37'	5 ^h 16'	4 ^h 26'	19 ^h 17'	3 ^h 40'
W 11	21 18 11	18 ^h 16'18"	28 ^h 51'	1 ^h 34'	22 ^h 46'	10 ^h 54'	29 ^h 33'	23 ^h 10'	2 ^h 13'	28 ^h 40'	17 ^h 38'	5 ^h 14'	4 ^h 22'	19 ^h 24'	3 ^h 40'
T 12	21 22 7	19 ^h 13'57"	10 ^h 42'	1 ^h 56'	23 ^h 59'	11 ^h 29'	29 ^h 46'	23 ^h 18'	2 ^h 13'	28 ^h 38'	17 ^h 39'	5 ^h 12'	4 ^h 19'	19 ^h 30'	3 ^h 40'
F 13	21 26 4	20 ^h 11'39"	22 ^h 37'	2 ^h 25'	25 ^h 12'	12 ^h 5'	29 ^h 59'	23 ^h 25'	2 ^h 13'	28 ^h 37'	17 ^h 41'	5 ^h 11'	4 ^h 16'	19 ^h 37'	3 ^h 39'
S 14	21 30 0	21 ^h 9'22"	4 ^h 41'	3 ^h 2'	26 ^h 25'	12 ^h 40'	0 ^h 12'	23 ^h 33'	2 ^h 13'	28 ^h 35'	17 ^h 42'	5 ^h 9'	4 ^h 13'	19 ^h 44'	3 ^h 39'
S 15	21 33 57	22 ^h 7'06"	16 ^h 57'	3 ^h 46'	27 ^h 38'	13 ^h 16'	0 ^h 25'	23 ^h 41'	2 ^h 12'	28 ^h 34'	17 ^h 43'	5 ^h D 8	4 ^h 10'	19 ^h 50'	3 ^h 39'
M 16	21 37 53	23 ^h 4'52"	29 ^h 29'	4 ^h 37'	28 ^h 51'	13 ^h 52'	0 ^h 38'	23 ^h 48'	2 ^h 12'	28 ^h 32'	17 ^h 45'	5 ^h 9'	4 ^h 6'	19 ^h 57'	3 ^h 38'
T 17	21 41 50	24 ^h 2'40"	12 ^h 22'	5 ^h 35'	0 ^h 41'	14 ^h 28'	0 ^h 51'	23 ^h 56'	2 ^h 11'	28 ^h 30'	17 ^h 46'	5 ^h 9'	4 ^h 3'	20 ^h 4'</	

SWISS EPHEMERIS for the year 1683

SEPTEMBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	22 40 58	8♐32'51	13♌45	29♏40	18♌24	23♍50	4♎6	25♏50	1♑R59	28♑R 6	18♒4	4♓58	3♒16	21♑44	3♑R23		
T 2	22 44 55	9°31'03	26° 3	1♐35	19°38	24°29	4°19	25°58	1♒58	28♒4	18° 5	5° 0	3°12	21°51	3♒22		
F 3	22 48 51	10°29'17	8♏10	3°31	20°52	25° 8	4°32	26° 5	1°57	28° 3	18° 7	5°R 0	3° 9	21°58	3°20		
S 4	22 52 48	11°27'33	20° 9	5°27	22° 6	25°47	4°45	26°13	1°55	28° 1	18° 8	4°59	3° 6	22° 4	3°19		
S 5	22 56 44	12°25'50	2♐ 3	7°22	23°20	26°26	4°58	26°20	1°54	27°59	18° 9	4°56	3° 3	22°11	3°17		
M 6	23 0 41	13°24'09	13°55	9°17	24°33	27° 6	5°11	26°27	1°53	27°58	18°10	4°51	3° 0	22°18	3°16		
T 7	23 4 38	14°22'30	25°45	11°12	25°47	27°45	5°24	26°35	1°51	27°56	18°11	4°45	2°57	22°24	3°14		
W 8	23 8 34	15°20'53	7♑36	13° 6	27° 1	28°25	5°37	26°42	1°50	27°55	18°12	4°37	2°53	22°31	3°12		
T 9	23 12 31	16°19'17	19°30	14°59	28°15	29° 5	5°50	26°50	1°48	27°53	18°13	4°29	2°50	22°38	3°10		
F 10	23 16 27	17°17'44	1♒29	16°51	29°29	29°45	6° 3	26°57	1°47	27°52	18°13	4°22	2°47	22°44	3° 9		
S 11	23 20 24	18°16'13	13°36	18°43	0♐44	0♑25	6°16	27° 4	1°45	27°50	18°14	4°16	2°44	22°51	3° 7		
S 12	23 24 20	19°14'44	25°52	20°33	1°58	1° 5	6°29	27°12	1°44	27°49	18°15	4°11	2°41	22°58	3° 5		
M13	23 28 17	20°13'17	8♐23	22°23	3°12	1°45	6°42	27°19	1°42	27°47	18°16	4° 8	2°37	23° 4	3° 3		
T 14	23 32 13	21°11'53	21°11	24°11	4°26	2°26	6°54	27°26	1°40	27°46	18°17	4°D 8	2°34	23°11	3° 1		
W15	23 36 10	22°10'30	4♓20	25°59	5°40	3° 6	7° 7	27°33	1°39	27°44	18°18	4° 8	2°31	23°18	2°59		
T 16	23 40 7	23° 9'10	17°54	27°46	6°55	3°47	7°20	27°41	1°37	27°43	18°19	4° 9	2°28	23°25	2°57		
F 17	23 44 3	24° 7'52	1♓55	29°31	8° 9	4°28	7°33	27°48	1°35	27°41	18°19	4°R10	2°25	23°31	2°55		
S 18	23 48 0	25° 6'37	16°23	1♑16	9°23	5° 9	7°46	27°55	1°33	27°40	18°20	4° 9	2°22	23°38	2°53		
S 19	23 51 56	26° 5'23	1♐14	3° 0	10°38	5°50	7°58	28° 2	1°31	27°38	18°21	4° 7	2°18	23°45	2°50		
M20	23 55 53	27° 4'12	16°23	4°42	11°52	6°31	8°11	28° 9	1°30	27°37	18°22	4° 2	2°15	23°51	2°48		
T 21	23 59 49	28° 3'03	1♑40	6°24	13° 7	7°12	8°24	28°16	1°28	27°36	18°22	3°55	2°12	23°58	2°46		
W22	0 3 46	29° 1'55	16°55	8° 5	14°21	7°54	8°36	28°23	1°26	27°34	18°23	3°47	2° 9	24° 5	2°44		
T 23	0 7 42	0♑ 0'50	1♍57	9°44	15°36	8°35	8°49	28°30	1°24	27°33	18°24	3°38	2° 6	24°11	2°41		
F 24	0 11 39	0°59'46	16°56	11°23	16°50	9°17	9° 1	28°37	1°22	27°32	18°24	3°30	2° 3	24°18	2°39		
S 25	0 15 36	1°58'45	0♑48	13° 1	18° 5	9°59	9°14	28°44	1°20	27°30	18°25	3°24	1°59	24°25	2°36		
S 26	0 19 32	2°57'45	14°31	14°39	19°20	10°40	9°26	28°50	1°18	27°29	18°25	3°21	1°56	24°31	2°34		
M27	0 23 29	3°56'47	27°44	16°15	20°34	11°22	9°39	28°57	1°15	27°28	18°26	3°19	1°53	24°38	2°31		
T 28	0 27 25	4°55'50	10♌33	17°50	21°49	12° 5	9°51	29° 4	1°13	27°27	18°27	3°D19	1°50	24°45	2°29		
W29	0 31 22	5°54'56	23° 0	19°25	23° 4	12°47	10° 4	29°10	1°11	27°25	18°27	3°20	1°47	24°52	2°26		
T 30	0 35 18	6♑54'03	5♏12	20♑59	24♐19	13♑29	10♐16	29♏17	1♑ 9	27♒24	18♒28	3°R20	1♑43	24♑58	2♒24		

Delta T = 12.07 sec.

Greg. Calendar

OCTOBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	0 39 15	7♑53'12	17♏12	22♑32	25♐33	14♑12	10♐28	29♏24	1°R 7	27°R23	18♒28	3°R19	1♑40	25♑ 5	2°R21		
S 2	0 43 11	8°52'23	29° 5	24° 4	26°48	14°54	10°40	29°30	1♒ 5	27°22	18°28	3♒16	1°37	25°12	2♒18		
S 3	0 47 8	9°51'35	10♐55	25°35	28° 3	15°37	10°53	29°37	1° 2	27°21	18°29	3°10	1°34	25°18	2°16		
M 4	0 51 4	10°50'50	22°45	27° 6	29°18	16°19	11° 5	29°43	1° 0	27°20	18°29	3° 1	1°31	25°25	2°13		
T 5	0 55 1	11°50'06	4♑37	28°36	0♑33	17° 2	11°17	29°49	0°58	27°19	18°30	2°50	1°28	25°32	2°10		
W 6	0 58 58	12°49'25	16°33	0♍ 5	1°48	17°45	11°29	29°56	0°56	27°18	18°30	2°38	1°24	25°38	2° 7		
T 7	1 2 54	13°48'45	28°33	1°33	3° 2	18°28	11°41	0♐ 2	0°53	27°17	18°30	2°24	1°21	25°45	2° 5		
F 8	1 6 51	14°48'08	10♌41	3° 1	4°17	19°11	11°53	0° 8	0°51	27°16	18°31	2°11	1°18	25°52	2° 2		
S 9	1 10 47	15°47'33	22°55	4°27	5°32	19°54	12° 4	0°14	0°49	27°15	18°31	2° 0	1°15	25°58	1°59		
S 10	1 14 44	16°47'00	5♐19	5°53	6°47	20°38	12°16	0°20	0°46	27°14	18°31	1°51	1°12	26° 5	1°56		
M11	1 18 40	17°46'29	17°54	7°18	8° 2	21°21	12°28	0°26	0°44	27°13	18°31	1°45	1° 8	26°12	1°53		
T 12	1 22 37	18°46'01	0♑43	8°42	9°17	22° 5	12°40	0°32	0°41	27°12	18°32	1°42	1° 5	26°19	1°50		
W13	1 26 33	19°45'35	13°50	10° 6	10°32	22°48	12°51	0°38	0°39	27°11	18°32	1°41	1° 2	26°25	1°48		
T 14	1 30 30	20°45'12	27°16	11°28	11°47	23°32	13° 3	0°44	0°37	27°10	18°32	1°41	0°59	26°32	1°45		
F 15	1 34 27	21°44'50	11♏ 5	12°49	13° 3	24°15	13°14	0°50	0°34	27° 9	18°32	1°40	0°56	26°39	1°42		
S 16	1 38 23	22°44'31	25°18	14°10	14°18	24°59	13°26	0°56	0°32	27° 9	18°32	1°39	0°53	26°45	1°39		
S 17	1 42 20	23°44'14	9♐54	15°29	15°33	25°43	13°37	1° 1	0°29	27° 8	18°32	1°35	0°49	26°52	1°36		
M18	1 46 16	24°44'00	24°49	16°47	16°48	26°27	13°49	1° 7	0°27	27° 7	18°32	1°28	0°46	26°59	1°33		
T 19	1 50 13	25°43'47	9♑56	18° 4	18° 3	27°11	14° 0	1°12	0°24	27° 7	18°R32	1°19	0°43	27° 5	1°30		
W20	1 54 9	26°43'37	25° 6	19°19	19°18	27°55	14°11	1°18	0°22	27° 6	18°32	1° 7	0°40	27°12	1°27		
T 21	1 58 6	27°43'29	10♍ 7	20°33	20°34	28°40	14°22	1°23	0°19	27° 5	18°32	0°56	0°37	27°19	1°24		
F 22	2 2 2	28°43'22	24°50	21°45	21°49	29°24	14°33	1°28	0°17	27° 5	18°32	0°45	0°34	27°26	1°21		
S 23	2 5 59	29°43'18	9♑ 9	22°56	23° 4	0♒ 8	14°44	1°33	0°15	27° 4	18°32	0°36	0°30	27°32	1°18		
S 24	2 9 56	0♍43'15	22°58	24° 5	24°19	0°53	14°55	1°39	0°12	27° 4	18°32	0°30	0°27	27°39	1°15		
M25	2 13 52	1°43'14	6♒17	25°11	25°34	1°37	15° 6	1°44	0°10	27° 3	18°32	0°26	0°24	27°46	1°12		
T 26	2 17 49	2°43'14	19°10	26°15	26°50	2°22	15°16	1°49	0° 7	27° 3	18°32	0°25	0°21	27°52	1° 9		
W27	2 21 45	3°43'16	1♑40	27°16	28° 5	3° 7	15°27	1°54	0° 5	27° 2	18°32	0°24	0°18	27°59	1° 6		
T 28	2 25 42	4°43'20	13°51	28°15	29°20	3°51	15°37	1°58	0° 2	27° 2	18°31	0°24	0°14	28° 6	1° 3		
F 29	2 29 38	5°43'25	25°50	29°10	0♍36	4°36	15°48	2° 3	29°V59	27° 1	18°31	0°23	0°11	28°12	1° 0		
S 30	2 33 35	6°43'32	7♐42	0♑ 1	1°51	5°21	15°58	2° 8	29°57	27° 1	18°31	0°19	0° 8	28°19	0°57		
S 31	2 37 31	7♍43'40	19♐31	0♑48	3♍ 6	6♒ 6	16♐ 8	2♐12	29°V55	27°27 1	18♒31	0♒13	0♒ 5	28♑26	0♒54		

Delta T = 11.98 sec.

Greg. Calendar

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SWISS EPHEMERIS for the year 1683

NOVEMBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♃	♄
M 1	2 41 28	8♄43'50	1♃22	1♂31	4♄22	6♂51	16♄19	2♄17	29°R52	27°R 1	18°R30	0°R 4	0♄ 2	28♂33	0°R51	
T 2	2 45 25	9°44'02	13°17	2° 9	5°37	7°36	16°29	2°21	29°Y50	27°≈ 0	18°≈30	29°≈53	29°≈59	28°39	0♂48	
W 3	2 49 21	10°44'15	25°20	2°40	6°52	8°21	16°39	2°26	29°48	27° 0	18°30	29°39	29°55	28°46	0°45	
T 4	2 53 18	11°44'30	7♂30	3° 6	8° 8	9° 6	16°49	2°30	29°45	27° 0	18°29	29°25	29°52	28°53	0°42	
F 5	2 57 14	12°44'47	19°50	3°24	9°23	9°51	16°58	2°34	29°43	27° 0	18°29	29°12	29°49	28°59	0°39	
S 6	3 1 11	13°45'06	2♄19	3°34	10°38	10°37	17° 8	2°38	29°40	27° 0	18°28	28°59	29°46	29° 6	0°36	
S 7	3 5 7	14°45'26	14°58	3°R37	11°54	11°22	17°18	2°42	29°38	27° 0	18°28	28°50	29°43	29°13	0°33	
M 8	3 9 4	15°45'49	27°47	3°30	13° 9	12° 7	17°27	2°46	29°36	27°D 0	18°27	28°43	29°40	29°19	0°30	
T 9	3 13 0	16°46'13	10♂48	3°13	14°24	12°53	17°36	2°50	29°33	27° 0	18°27	28°40	29°36	29°26	0°28	
W10	3 16 57	17°46'39	24° 1	2°46	15°40	13°38	17°46	2°53	29°31	27° 0	18°26	28°D38	29°33	29°33	0°25	
T 11	3 20 54	18°47'07	7♄29	2° 9	16°55	14°24	17°55	2°57	29°29	27° 0	18°26	28°38	29°30	29°40	0°22	
F 12	3 24 50	19°47'36	21°13	1°22	18°11	15°10	18° 4	3° 0	29°26	27° 0	18°25	28°R39	29°27	29°46	0°19	
S 13	3 28 47	20°48'08	5♄14	0°25	19°26	15°55	18°13	3° 4	29°24	27° 0	18°25	28°38	29°24	29°53	0°16	
S 14	3 32 43	21°48'41	19°32	29♄19	20°41	16°41	18°22	3° 7	29°22	27° 0	18°24	28°35	29°20	29°59	0°14	
M15	3 36 40	22°49'17	4♄ 6	28° 7	21°57	17°27	18°30	3°10	29°20	27° 1	18°24	28°29	29°17	0°Y 6	0°11	
T 16	3 40 36	23°49'53	18°49	26°48	23°12	18°13	18°39	3°13	29°18	27° 1	18°23	28°21	29°14	0°13	0° 8	
W17	3 44 33	24°50'32	3♄37	25°27	24°28	18°58	18°47	3°17	29°15	27° 1	18°22	28°12	29°11	0°20	0° 6	
T 18	3 48 29	25°51'12	18°21	24° 6	25°43	19°44	18°56	3°19	29°13	27° 1	18°22	28° 1	29° 8	0°27	0° 3	
F 19	3 52 26	26°51'54	2♂52	22°46	26°59	20°30	19° 4	3°22	29°11	27° 2	18°21	27°52	29° 5	0°33	0° 0	
S 20	3 56 23	27°52'37	17° 3	21°32	28°14	21°16	19°12	3°25	29° 9	27° 2	18°20	27°44	29° 1	0°40	29°Y58	
S 21	4 0 19	28°53'22	0♂51	20°26	29°30	22° 2	19°20	3°28	29° 7	27° 3	18°19	27°38	28°58	0°47	29°55	
M22	4 4 16	29°54'07	14°12	19°28	0♂45	22°48	19°28	3°30	29° 5	27° 3	18°19	27°35	28°55	0°53	29°53	
T 23	4 8 12	0♂54'54	27° 8	18°41	2° 0	23°35	19°35	3°32	29° 3	27° 3	18°18	27°D34	28°52	1° 0	29°50	
W24	4 12 9	1°55'42	9♄41	18° 6	3°16	24°21	19°43	3°35	29° 1	27° 4	18°17	27°34	28°49	1° 7	29°48	
T 25	4 16 5	2°56'30	21°56	17°41	4°31	25° 7	19°50	3°37	28°59	27° 5	18°16	27°35	28°46	1°14	29°45	
F 26	4 20 2	3°57'20	3♂58	17°29	5°47	25°53	19°58	3°39	28°57	27° 5	18°15	27°R36	28°42	1°20	29°43	
S 27	4 23 58	4°58'10	15°51	17°D27	7° 2	26°39	20° 5	3°41	28°55	27° 6	18°14	27°35	28°39	1°27	29°41	
S 28	4 27 55	5°59'01	27°42	17°36	8°18	27°26	20°12	3°43	28°53	27° 6	18°14	27°32	28°36	1°34	29°38	
M29	4 31 52	6°59'54	9°Y34	17°54	9°33	28°12	20°19	3°45	28°52	27° 7	18°13	27°27	28°33	1°40	29°36	
T 30	4 35 48	8♂ 0'47	21°Y32	18♄21	10♂49	28♂58	20♄25	3♄46	28°Y50	27°≈ 8	18°≈12	27°≈20	28°≈30	1°Y47	29°Y34	

Delta T = 11.87 sec. Greg. Calendar

DECEMBER 1683 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♃	♄
W 1	4 39 45	9♂ 1'41	3♂40	18♄56	12♂ 4	29♂45	20♄32	3♄48	28°R48	27°≈ 9	18°R11	27°R12	28°≈26	1°Y54	29°R32	
T 2	4 43 41	10° 2'35	15°59	19°38	13°20	0≈31	20°38	3°49	28°Y46	27° 9	18°≈10	27°≈ 3	28°23	2° 0	29°Y30	
F 3	4 47 38	11° 3'31	28°32	20°27	14°35	1°18	20°45	3°51	28°45	27°10	18° 9	26°54	28°20	2° 7	29°28	
S 4	4 51 34	12° 4'28	11♄18	21°20	15°50	2° 4	20°51	3°52	28°43	27°11	18° 8	26°46	28°17	2°14	29°26	
S 5	4 55 31	13° 5'25	24°17	22°19	17° 6	2°51	20°57	3°53	28°42	27°12	18° 7	26°40	28°14	2°21	29°24	
M 6	4 59 27	14° 6'24	7♂28	23°22	18°21	3°37	21° 3	3°54	28°40	27°13	18° 6	26°36	28°11	2°27	29°22	
T 7	5 3 24	15° 7'23	20°51	24°28	19°37	4°24	21° 8	3°55	28°39	27°14	18° 5	26°D34	28° 7	2°34	29°20	
W 8	5 7 21	16° 8'24	4♄25	25°38	20°52	5°10	21°14	3°56	28°37	27°15	18° 4	26°34	28° 4	2°41	29°18	
T 9	5 11 17	17° 9'25	18° 8	26°50	22° 8	5°57	21°19	3°56	28°36	27°16	18° 3	26°35	28° 1	2°47	29°16	
F 10	5 15 14	18°10'28	2♄ 0	28° 5	23°23	6°43	21°24	3°57	28°34	27°17	18° 2	26°37	27°58	2°54	29°15	
S 11	5 19 10	19°11'31	16° 1	29°21	24°39	7°30	21°29	3°57	28°33	27°18	18° 1	26°R38	27°55	3° 1	29°13	
S 12	5 23 7	20°12'36	0♄10	0♂40	25°54	8°16	21°34	3°58	28°32	27°19	17°59	26°37	27°51	3° 8	29°11	
M13	5 27 3	21°13'41	14°25	2° 0	27°10	9° 3	21°39	3°58	28°31	27°20	17°58	26°35	27°48	3°14	29°10	
T 14	5 31 0	22°14'47	28°44	3°22	28°25	9°50	21°43	3°58	28°29	27°22	17°57	26°32	27°45	3°21	29° 8	
W15	5 34 56	23°15'55	13♄ 3	4°45	29°40	10°36	21°48	3°R58	28°28	27°23	17°56	26°27	27°42	3°28	29° 7	
T 16	5 38 53	24°17'02	27°18	6° 9	0♂56	11°23	21°52	3°58	28°27	27°24	17°55	26°22	27°39	3°34	29° 5	
F 17	5 42 50	25°18'11	11♂22	7°33	2°11	12°10	21°56	3°58	28°26	27°25	17°54	26°17	27°36	3°41	29° 4	
S 18	5 46 46	26°19'20	25°13	8°59	3°27	12°57	22° 0	3°57	28°25	27°27	17°52	26°13	27°32	3°48	29° 3	
S 19	5 50 43	27°20'30	8♂46	10°26	4°42	13°43	22° 3	3°57	28°24	27°28	17°51	26°10	27°29	3°55	29° 1	
M20	5 54 39	28°21'40	21°58	11°53	5°58	14°30	22° 7	3°56	28°23	27°29	17°50	26°D 9	27°26	4° 1	29° 0	
T 21	5 58 36	29°22'50	4≈51	13°20	7°13	15°17	22°10	3°56	28°22	27°31	17°49	26° 9	27°23	4° 8	28°59	
W22	6 2 32	0♂24'00	17°24	14°49	8°29	16° 3	22°13	3°55	28°22	27°32	17°48	26°10	27°20	4°15	28°58	
T 23	6 6 29	1°25'10	29°41	16°17	9°44	16°50	22°16	3°54	28°21	27°33	17°46	26°12	27°17	4°21	28°57	
F 24	6 10 25	2°26'21	11♂44	17°47	10°59	17°37	22°19	3°53	28°20	27°35	17°45	26°14	27°13	4°28	28°56	
S 25	6 14 22	3°27'31	23°40	19°16	12°15	18°24	22°21	3°52	28°19	27°36	17°44	26°15	27°10	4°35	28°55	
S 26	6 18 19	4°28'41	5°Y32	20°46	13°30	19°11	22°24	3°51	28°19	27°38	17°43	26°R15	27° 7	4°42	28°54	
M27	6 22 15	5°29'51	17°25	22°17	14°46	19°57	22°26	3°49	28°18	27°39	17°41	26°15	27° 4	4°48	28°53	
T 28	6 26 12	6°31'00	29°23	23°48	16° 1	20°44	22°28	3°48	28°18	27°41	17°40	26°13	27° 1	4°55	28°53	
W29	6 30 8	7°32'10	11♂33	25°19	17°16	21°31	22°30	3°46	28°17	27°43	17°39	26°11	26°57	5° 2	28°52	
T 30	6 34 5	8°33'19	23°56	26°51	18°32	22°18	22°31	3°45	28°17	27°44	17°38	26° 8	26°54	5° 8	28°51	
F 31	6 38 1	9♂34'28	6♄36	28♂23	19♂47	23≈ 4	22♄33	3♄43	28°Y17	27°≈46	17°≈36	26≈ 5	26≈51	5°Y15	28°Y51	

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