

SWISS EPHEMERIS for the year 1686

JANUARY 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	6 44 0	11♌ 7'21	4♋23	24♌50	25♌ 3	12♋32	16♌35	0♌ 5	6°R31	2♋ 8	20°R12	19°R 7	18♌ 5	26♌51	7°R48	
W 2	6 47 56	12° 8'32	17° 9	26°25	26°13	13°16	16°45	0° 6	6♌30	2° 9	20♌11	19°D 7	18° 2	26°57	7♌47	
T 3	6 51 53	13° 9'41	29°35	28° 0	27°22	14° 1	16°55	0° 6	6°29	2°11	20°10	19♌ 8	17°59	27° 4	7°46	
F 4	6 55 49	14°10'51	11♌44	29°35	28°31	14°45	17° 5	0° 7	6°29	2°12	20° 9	19° 9	17°56	27°11	7°46	
S 5	6 59 46	15°12'00	23°42	1♌ 8	29°40	15°30	17°14	0° 7	6°28	2°14	20° 7	19°11	17°53	27°17	7°45	
S 6	7 3 43	16°13'08	5♌33	2°39	0♋49	16°14	17°24	0° 8	6°28	2°16	20° 6	19°13	17°49	27°24	7°44	
M 7	7 7 39	17°14'16	17°20	4° 9	1°58	16°59	17°33	0° 8	6°27	2°18	20° 5	19°R14	17°46	27°31	7°44	
T 8	7 11 36	18°15'24	29° 7	5°36	3° 7	17°43	17°43	0° 8	6°27	2°19	20° 3	19°13	17°43	27°37	7°43	
W 9	7 15 32	19°16'31	10♌56	7° 1	4°15	18°27	17°52	0°R 8	6°27	2°21	20° 2	19°11	17°40	27°44	7°43	
T 10	7 19 29	20°17'37	22°51	8°23	5°23	19°12	18° 1	0° 8	6°27	2°23	20° 1	19° 8	17°37	27°50	7°42	
F 11	7 23 25	21°18'43	4♌52	9°41	6°31	19°56	18°10	0° 8	6°26	2°25	19°59	19° 2	17°34	27°57	7°42	
S 12	7 27 22	22°19'49	17° 1	10°54	7°39	20°41	18°19	0° 7	6°26	2°26	19°58	18°56	17°30	28° 4	7°42	
S 13	7 31 19	23°20'54	29°20	12° 3	8°46	21°25	18°28	0° 7	6°26	2°28	19°57	18°50	17°27	28°10	7°41	
M14	7 35 15	24°21'58	11♌50	13° 5	9°54	22° 9	18°37	0° 6	6°D26	2°30	19°56	18°44	17°24	28°17	7°41	
T 15	7 39 12	25°23'03	24°32	14° 1	11° 1	22°53	18°45	0° 6	6°26	2°32	19°54	18°39	17°21	28°24	7°41	
W16	7 43 8	26°24'06	7♌30	14°50	12° 8	23°38	18°54	0° 5	6°26	2°34	19°53	18°35	17°18	28°30	7°D41	
T 17	7 47 5	27°25'10	20°44	15°30	13°15	24°22	19° 2	0° 4	6°27	2°36	19°52	18°34	17°15	28°37	7°41	
F 18	7 51 1	28°26'12	4♌17	16° 0	14°21	25° 6	19°10	0° 3	6°27	2°38	19°50	18°D34	17°11	28°44	7°41	
S 19	7 54 58	29°27'15	18°10	16°21	15°27	25°50	19°18	0° 2	6°27	2°40	19°49	18°35	17° 8	28°50	7°41	
S 20	7 58 54	0♌28'17	2♌25	16°R31	16°33	26°34	19°26	0° 1	6°27	2°42	19°48	18°36	17° 5	28°57	7°41	
M21	8 2 51	1°29'18	16°59	16°30	17°39	27°19	19°34	29♌59	6°28	2°44	19°46	18°R37	17° 2	29° 4	7°42	
T 22	8 6 48	2°30'19	1♌49	16°17	18°45	28° 3	19°42	29°58	6°28	2°46	19°45	18°36	16°59	29°10	7°42	
W23	8 10 44	3°31'19	16°49	15°53	19°50	28°47	19°49	29°57	6°28	2°48	19°44	18°33	16°55	29°17	7°43	
T 24	8 14 41	4°32'19	1♌50	15°18	20°55	29°31	19°57	29°55	6°29	2°50	19°43	18°28	16°52	29°24	7°43	
F 25	8 18 37	5°33'17	16°45	14°33	21°59	0♌15	20° 4	29°54	6°30	2°52	19°41	18°21	16°49	29°30	7°44	
S 26	8 22 34	6°34'14	1♌23	13°38	23° 4	0°59	20°11	29°52	6°30	2°54	19°40	18°13	16°46	29°37	7°44	
S 27	8 26 30	7°35'10	15°37	12°37	24° 8	1°43	20°18	29°50	6°31	2°56	19°39	18° 5	16°43	29°44	7°45	
M28	8 30 27	8°36'04	29°25	11°29	25°11	2°27	20°25	29°48	6°32	2°58	19°38	17°58	16°40	29°50	7°46	
T 29	8 34 23	9°36'58	12♌44	10°17	26°15	3°11	20°32	29°46	6°32	3° 0	19°36	17°53	16°36	29°57	7°46	
W30	8 38 20	10°37'49	25°36	9° 4	27°18	3°55	20°38	29°44	6°33	3° 3	19°35	17°49	16°33	0♌ 3	7°47	
T 31	8 42 17	11°38'40	8♌ 5	7°51	28°21	4°39	20♌45	29♌41	6♌34	3♌ 5	19°34	17°D48	16♌30	0♌10	7♌48	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	23s 1	2s55	5s 5	23s12	2s 2	14s42	1s36	7s34	0s45	15s50	1n 2	2n 4	2n17	13n18	0s26	11s26
W 2	22 56	2n27	4 39	22 51	1 59	14 16	1 33	7 16	0 44	15 53	1 2	2 4	2 18	13 18	0 26	11 26
T 3	22 50	7 35	4 1	22 28	1 55	13 49	1 30	6 58	0 43	15 55	1 2	2 4	2 18	13 18	0 26	11 25
F 4	22 43	12 20	3 12	22 4	1 50	13 22	1 27	6 40	0 42	15 58	1 2	2 4	2 18	13 18	0 26	11 25
S 5	22 37	16 32	2 16	21 39	1 45	12 55	1 24	6 21	0 41	16 1	1 2	2 4	2 19	13 18	0 26	11 24
S 6	22 30	20 2	1 15	21 12	1 39	12 28	1 21	6 3	0 40	16 3	1 3	2 4	2 19	13 18	0 26	11 23
M 7	22 22	22 42	0 10	20 45	1 32	12 0	1 18	5 45	0 39	16 6	1 3	2 5	2 19	13 17	0 26	11 23
T 8	22 14	24 23	0n54	20 16	1 24	11 32	1 14	5 27	0 38	16 8	1 3	2 5	2 20	13 17	0 26	11 22
W 9	22 6	24 58	1 56	19 46	1 16	11 4	1 11	5 8	0 37	16 11	1 3	2 5	2 20	13 17	0 26	11 21
T 10	21 57	24 24	2 54	19 16	1 7	10 35	1 7	4 50	0 36	16 13	1 3	2 5	2 20	13 17	0 26	11 21
F 11	21 47	22 42	3 44	18 45	0 56	10 7	1 3	4 31	0 35	16 16	1 3	2 6	2 20	13 17	0 26	11 20
S 12	21 38	19 58	4 25	18 14	0 44	9 38	0 59	4 13	0 34	16 18	1 3	2 6	2 21	13 17	0 26	11 19
S 13	21 27	16 18	4 54	17 43	0 32	9 9	0 55	3 55	0 33	16 20	1 3	2 7	2 21	13 17	0 26	11 19
M14	21 17	11 53	5 9	17 12	0 18	8 40	0 51	3 36	0 32	16 23	1 3	2 7	2 21	13 17	0 26	11 18
T 15	21 6	6 54	5 10	16 43	0 4	8 10	0 47	3 18	0 31	16 25	1 4	2 7	2 21	13 17	0 26	11 17
W16	20 55	1 32	4 55	16 14	0n11	7 41	0 42	2 59	0 30	16 27	1 4	2 8	2 22	13 17	0 26	11 17
T 17	20 43	4s 2	4 24	15 47	0 27	7 11	0 38	2 41	0 29	16 29	1 4	2 9	2 22	13 17	0 25	11 16
F 18	20 31	9 33	3 38	15 22	0 44	6 41	0 33	2 22	0 28	16 31	1 4	2 9	2 22	13 17	0 25	11 15
S 19	20 18	14 45	2 38	14 59	1 2	6 11	0 29	2 4	0 27	16 33	1 4	2 10	2 23	13 18	0 25	11 15
S 20	20 5 19	16 2	1 27	14 39	1 19	5 41	0 24	1 45	0 26	16 35	1 4	2 11	2 23	13 18	0 25	11 14
M21	19 52	22 42	0 9	14 22	1 37	5 11	0 19	1 27	0 25	16 37	1 4	2 11	2 23	13 18	0 25	11 13
T 22	19 38	24 39	1s11	14 9	1 55	4 41	0 14	1 8	0 24	16 39	1 4	2 12	2 23	13 18	0 25	11 12
W23	19 24	24 51	2 27	13 59	2 13	4 10	0 9	0 50	0 23	16 41	1 4	2 13	2 24	13 18	0 25	11 12
T 24	19 10	23 14	3 32	13 54	2 30	3 40	0 4	0 31	0 22	16 43	1 5	2 14	2 24	13 18	0 25	11 11
F 25	18 55	20 1	4 23	13 52	2 45	3 10	0n 1	0 13	0 21	16 45	1 5	2 15	2 24	13 19	0 25	11 10
S 26	18 40	15 35	4 55	13 53	3 0	2 39	0 7	0n 5	0 20	16 47	1 5	2 16	2 25	13 19	0 25	11 9
S 27	18 24	10 24	5 7	13 59	3 12	2 9	0 12	0 24	0 19	16 49	1 5	2 17	2 25	13 19	0 25	11 9
M28	18 9	4 51	5 2	14 7	3 23	1 38	0 18	0 42	0 18	16 50	1 5	2 18	2 25	13 19	0 25	11 8
T 29	17 52	0n45	4 39	14 19	3 31	1 8	0 24	1 0	0 17	16 52	1 5	2 19	2 25	13 20	0 25	11 7
W30	17 36	6 8	4 4	14 32	3 36	0 38	0 29	1 19	0 16	16 53	1 5	2 20	2 26	13 20	0 25	11 6
T 31	17s19	11n 7	3s17	14s48	3n40	0s 7	0n35	1n37	0s15	16s55	1n 5	2n21	2n26	13n20	0s25	11s 6

Julian Day Number = 2336859.5, Delta T = 10.68 sec
 Ecliptic obliquity = 23°28'50, Nutation = - 0°00'16
 Ayanamsha: Fagan/Bradley = 20°21'26, Lahiri = 19°28'26Greg. Calendar

SWISS EPHEMERIS for the year 1686

FEBRUARY 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁	♁
F 1	8 46 13	12 ³⁹ 29	20 ¹⁵ 15	6 ⁰ R41	29 ²³ 23	5 ²³ 23	20 ⁵¹ 51	29 ⁰ R39	6 ³⁵ 35	3 ⁷ 7	19 ⁰ R33	17 ⁴⁸ 48	16 ²⁷ 27	0 ¹⁷ 17	7 ⁴⁹ 49	
S 2	8 50 10	13 ⁴⁰ 16	2 ¹¹ 12	5 ³⁴ 34	0 ²⁵ 25	6 ⁶ 6	20 ⁵⁷ 57	29 ³⁶ 36	6 ³⁶ 36	3 ⁹ 9	19 ³² 32	17 ⁴⁹ 49	16 ²⁴ 24	0 ²³ 23	7 ⁵⁰ 50	
S 3	8 54 6	14 ⁴¹ 02	14 ⁰ 1	4 ³³ 33	1 ²⁶ 26	6 ⁵⁰ 50	21 ⁰ 3	29 ³⁴ 34	6 ³⁷ 37	3 ¹¹ 11	19 ³⁰ 30	17 ⁰ R50	16 ²¹ 21	0 ³⁰ 30	7 ⁵¹ 51	
M 4	8 58 3	15 ⁴¹ 46	25 ⁰ 47	3 ³⁹ 39	2 ²⁷ 27	7 ³⁴ 34	21 ⁰ 9	29 ³¹ 31	6 ³⁸ 38	3 ¹³ 13	19 ²⁹ 29	17 ⁴⁹ 49	16 ¹⁷ 17	0 ³⁷ 37	7 ⁵³ 53	
T 5	9 1 59	16 ⁴² 29	7 ³⁵ 35	2 ⁵¹ 51	3 ²⁸ 28	8 ¹⁸ 18	21 ⁰ 14	29 ²⁸ 28	6 ³⁹ 39	3 ¹⁶ 16	19 ²⁸ 28	17 ⁴⁷ 47	16 ¹⁴ 14	0 ⁴³ 43	7 ⁵⁴ 54	
W 6	9 5 56	17 ⁴³ 11	19 ⁰ 29	2 ¹² 12	4 ²⁸ 28	9 ⁰ 1	21 ⁰ 20	29 ²⁶ 26	6 ⁴⁰ 40	3 ¹⁸ 18	19 ²⁷ 27	17 ⁴² 42	16 ¹¹ 11	0 ⁵⁰ 50	7 ⁵⁵ 55	
T 7	9 9 52	18 ⁴³ 51	1 ⁰ 31	1 ⁴¹ 41	5 ²⁸ 28	9 ⁴⁵ 45	21 ⁰ 25	29 ²³ 23	6 ⁴² 42	3 ²⁰ 20	19 ²⁶ 26	17 ³⁵ 35	16 ⁰ 8	0 ⁵⁷ 57	7 ⁵⁶ 56	
F 8	9 13 49	19 ⁴⁴ 29	13 ⁴³ 43	1 ¹⁸ 18	6 ²⁸ 28	10 ²⁹ 29	21 ⁰ 30	29 ²⁰ 20	6 ⁴³ 43	3 ²² 22	19 ²⁵ 25	17 ²⁵ 25	16 ⁰ 5	1 ⁰ 3	7 ⁵⁸ 58	
S 9	9 17 46	20 ⁴⁵ 06	26 ⁰ 7	1 ⁰ 2	7 ²⁷ 27	11 ¹² 12	21 ⁰ 35	29 ¹⁷ 17	6 ⁴⁴ 44	3 ²⁴ 24	19 ²⁴ 24	17 ¹⁴ 14	16 ⁰ 1	1 ¹⁰ 10	7 ⁵⁹ 59	
S 10	9 21 42	21 ⁴⁵ 41	8 ³³ 33	0 ⁵⁵ 55	8 ²⁵ 25	11 ⁵⁶ 56	21 ⁰ 40	29 ¹³ 13	6 ⁴⁶ 46	3 ²⁷ 27	19 ²³ 23	17 ⁰ 2	15 ⁰ 58	1 ¹⁷ 17	8 ⁰ 1	
M 11	9 25 39	22 ⁴⁶ 15	21 ⁰ 31	0 ⁵⁴ 54	9 ²³ 23	12 ³⁹ 39	21 ⁰ 45	29 ¹⁰ 10	6 ⁴⁷ 47	3 ²⁹ 29	19 ²² 22	16 ⁵⁰ 50	15 ⁰ 55	1 ²³ 23	8 ⁰ 3	
T 12	9 29 35	23 ⁴⁶ 47	4 ³¹ 31	1 ⁰ 1	10 ²⁰ 20	13 ²³ 23	21 ⁰ 49	29 ⁰ 7	6 ⁴⁸ 48	3 ³¹ 31	19 ²¹ 21	16 ⁴⁰ 40	15 ⁰ 52	1 ³⁰ 30	8 ⁰ 4	
W 13	9 33 32	24 ⁴⁷ 19	17 ⁴² 42	1 ¹⁴ 14	11 ¹⁷ 17	14 ⁰ 6	21 ⁰ 53	29 ⁰ 3	6 ⁵⁰ 50	3 ³³ 33	19 ¹⁹ 19	16 ³² 32	15 ⁰ 49	1 ³⁷ 37	8 ⁰ 6	
T 14	9 37 28	25 ⁴⁷ 48	1 ¹⁸ 5	1 ³³ 33	12 ¹³ 13	14 ⁵⁰ 50	21 ⁰ 58	29 ⁰ 0	6 ⁵² 52	3 ³⁶ 36	19 ¹⁸ 18	16 ²⁷ 27	15 ⁰ 46	1 ⁴³ 43	8 ⁰ 8	
F 15	9 41 25	26 ⁴⁸ 17	14 ⁴⁰ 40	1 ⁵⁷ 57	13 ⁰ 9	15 ³³ 33	22 ⁰ 2	28 ⁰ 56	6 ⁵³ 53	3 ³⁸ 38	19 ¹⁷ 17	16 ²⁴ 24	15 ⁰ 42	1 ⁵⁰ 50	8 ⁰ 10	
S 16	9 45 21	27 ⁴⁸ 44	28 ⁰ 28	2 ²⁷ 27	14 ⁰ 4	16 ¹⁶ 16	22 ⁰ 5	28 ⁰ 53	6 ⁵⁵ 55	3 ⁴⁰ 40	19 ¹⁶ 16	16 ⁰ D24	15 ⁰ 39	1 ⁵⁶ 56	8 ⁰ 11	
S 17	9 49 18	28 ⁴⁹ 10	12 ²⁹ 29	3 ⁰ 1	14 ⁵⁸ 58	17 ⁰ 0	22 ⁰ 9	28 ⁰ 49	6 ⁵⁶ 56	3 ⁴³ 43	19 ¹⁵ 15	16 ⁰ R24	15 ⁰ 36	2 ⁰ 3	8 ⁰ 13	
M 18	9 53 15	29 ⁴⁹ 35	26 ⁴⁴ 44	3 ⁴⁰ 40	15 ⁵² 52	17 ⁴³ 43	22 ⁰ 13	28 ⁰ 45	6 ⁵⁸ 58	3 ⁴⁵ 45	19 ¹⁵ 15	16 ²⁴ 24	15 ⁰ 33	2 ¹⁰ 10	8 ⁰ 15	
T 19	9 57 11	0 ⁴⁹ 58	11 ³¹ 31	4 ²⁴ 24	16 ⁴⁵ 45	18 ²⁶ 26	22 ⁰ 16	28 ⁰ 41	7 ⁰ 0	3 ⁴⁷ 47	19 ¹⁴ 14	16 ²¹ 21	15 ⁰ 30	2 ¹⁶ 16	8 ⁰ 17	
W 20	10 1 8	1 ⁵⁰ 20	25 ⁴⁵ 45	5 ¹⁰ 10	17 ³⁷ 37	19 ⁰ 9	22 ⁰ 19	28 ⁰ 38	7 ⁰ 2	3 ⁴⁹ 49	19 ¹³ 13	16 ¹⁷ 17	15 ⁰ 27	2 ²³ 23	8 ⁰ 20	
T 21	10 5 4	2 ⁵⁰ 41	10 ²⁴ 24	6 ⁰ 1	18 ²⁹ 29	19 ⁵² 52	22 ⁰ 22	28 ⁰ 34	7 ⁰ 4	3 ⁵² 52	19 ¹² 12	16 ⁰ 9	15 ⁰ 23	2 ³⁰ 30	8 ⁰ 22	
F 22	10 9 1	3 ⁵⁰ 59	24 ⁵⁹ 59	6 ⁵⁵ 55	19 ²⁰ 20	20 ³⁶ 36	22 ⁰ 25	28 ⁰ 30	7 ⁰ 6	3 ⁵⁴ 54	19 ¹¹ 11	15 ⁰ 59	15 ⁰ 20	2 ³⁶ 36	8 ⁰ 24	
S 23	10 12 57	4 ⁵¹ 16	9 ²⁴ 24	7 ⁵¹ 51	20 ¹⁰ 10	21 ¹⁹ 19	22 ⁰ 27	28 ⁰ 26	7 ⁰ 8	3 ⁵⁶ 56	19 ¹⁰ 10	15 ⁰ 47	15 ⁰ 17	2 ⁴³ 43	8 ⁰ 26	
S 24	10 16 54	5 ⁵¹ 31	23 ³¹ 31	8 ⁵¹ 51	20 ⁵⁹ 59	22 ⁰ 2	22 ⁰ 30	28 ⁰ 21	7 ¹⁰ 10	3 ⁵⁸ 58	19 ⁰ 9	15 ⁰ 35	15 ⁰ 14	2 ⁵⁰ 50	8 ⁰ 29	
M 25	10 20 50	6 ⁵¹ 44	7 ⁴¹ 41	9 ⁵³ 53	21 ⁴⁸ 48	22 ⁰ 45	22 ⁰ 32	28 ⁰ 17	7 ¹² 12	4 ⁰ 1	19 ⁰ 8	15 ⁰ 23	15 ⁰ 11	2 ⁵⁶ 56	8 ⁰ 31	
T 26	10 24 47	7 ⁵¹ 55	20 ³⁵ 35	10 ⁵⁷ 57	22 ⁰ 35	23 ²⁸ 28	22 ⁰ 34	28 ⁰ 13	7 ¹⁴ 14	4 ⁰ 3	19 ⁰ 8	15 ⁰ 14	15 ⁰ 7	3 ⁰ 3	8 ⁰ 33	
W 27	10 28 44	8 ⁵² 04	3 ³⁰ 30	12 ⁰ 4	23 ²² 22	24 ¹¹ 11	22 ⁰ 36	28 ⁰ 9	7 ¹⁶ 16	4 ⁰ 5	19 ⁰ 7	15 ⁰ 7	15 ⁰ 4	3 ¹⁰ 10	8 ⁰ 36	
T 28	10 32 40	9 ⁵² 11	16 ⁰ 2	13 ¹³ 13	24 ⁰ 8	24 ⁵⁴ 54	22 ⁰ 37	28 ⁰ 4	7 ¹⁸ 18	4 ⁰ 8	19 ⁰ 6	15 ⁰ 3	15 ⁰ 1	3 ¹⁶ 16	8 ⁰ 38	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	17s 2	15n33	2s23	15s 5	3n41	0n23	0n41	1n55	0s14	16s57	1n 6	2n22	2n26	13n21	0s25	11s 5
S 2	16 45	19 17	1 23	15 22	3 39	0 53	0 47	2 14	0 13	16 58	1 6	2 24	2 26	13 21	0 25	11 4
S 3	16 27	22 11	0 20	15 40	3 36	1 23	0 53	2 32	0 12	16 59	1 6	2 25	2 27	13 21	0 25	11 3
M 4	16 10	24 7	0n43	15 58	3 30	1 53	1 0	2 50	0 11	17 1	1 6	2 26	2 27	13 22	0 25	11 2
T 5	15 51	24 59	1 44	16 16	3 23	2 23	1 6	3 8	0 11	17 2	1 6	2 27	2 27	13 22	0 25	11 2
W 6	15 33	24 43	2 41	16 33	3 14	2 53	1 12	3 26	0 10	17 3	1 6	2 29	2 27	13 22	0 25	11 1
T 7	15 14	23 17	3 31	16 49	3 5	3 23	1 19	3 44	0 9	17 5	1 6	2 30	2 27	13 23	0 25	11 0
F 8	14 55	20 46	4 13	17 4	2 54	3 53	1 25	4 2	0 8	17 6	1 7	2 32	2 28	13 23	0 25	10 59
S 9	14 36	17 16	4 43	17 19	2 43	4 22	1 32	4 20	0 7	17 7	1 7	2 33	2 28	13 24	0 25	10 58
S 10	14 17	12 56	5 0	17 32	2 31	4 51	1 39	4 38	0 6	17 8	1 7	2 34	2 28	13 24	0 25	10 58
M 11	13 57	7 59	5 2	17 44	2 19	5 20	1 46	4 56	0 5	17 9	1 7	2 36	2 28	13 25	0 25	10 57
T 12	13 37	2 37	4 48	17 55	2 7	5 49	1 52	5 13	0 5	17 10	1 7	2 37	2 29	13 25	0 25	10 56
W 13	13 17	2s57	4 20	18 4	1 54	6 18	1 59	5 31	0 4	17 11	1 7	2 39	2 29	13 26	0 25	10 55
T 14	12 57	8 29	3 36	18 12	1 42	6 47	2 6	5 49	0 3	17 12	1 7	2 41	2 29	13 26	0 25	10 54
F 15	12 36	13 43	2 40	18 19	1 29	7 15	2 14	6 6	0 2	17 13	1 8	2 42	2 29	13 27	0 25	10 54
S 16	12 15	18 20	1 34	18 24	1 17	7 43	2 21	6 24	0 1	17 14	1 8	2 44	2 29	13 27	0 25	10 53
S 17	11 54	21 59	0 21	18 28	1 5	8 11	2 28	6 41	0 0	17 15	1 8	2 45	2 30	13 28	0 25	10 52
M 18	11 33	24 21	0s55	18 31	0 53	8 38	2 35	6 58	0n 0	17 15	1 8	2 47	2 30	13 29	0 25	10 51
T 19	11 12	25 8	2 7	18 32	0 41	9 5	2 42	7 15	0 1	17 16	1 8	2 49	2 30	13 29	0 25	10 50
W 20	10 50	24 11	3 12	18 32	0 30	9 32	2 50	7 33	0 2	17 17	1 8	2 51	2 30	13 30	0 25	10 49
T 21	10 29	21 35	4 5	18 30	0 19	9 59	2 57	7 50	0 3	17 17	1 8	2 52	2 30	13 31	0 24	10 49
F 22	10 7	17 37	4 41	18 27	0 8	10 26	3 5	8 7	0 4	17 18	1 9	2 54	2 30	13 31	0 24	10 48
S 23	9 45	12 40	4 59	18 23	0s 2	10 52	3 12	8 24	0 4	17 18	1 9	2 56	2 31	13 32	0 24	10 47
S 24	9 23	7 8	4 58	18 17	0 12	11 17	3 20	8 41	0 5	17 19	1 9	2 58	2 31	13 33	0 2	

SWISS EPHEMERIS for the year 1686

MARCH 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	10 36 37	10 ^h 52'16"	28 ^h 15'	14 ^h 24'	24 ^h 52'	25 ^h 36'	22 ^h 39'	28°R 0	7 ^h 20'	4 ^h 10'	19°R 5	15°R 1	14 ^h 58'	3 ^h 23'	8 ^h 41'
S 2	10 40 33	11°52'19"	10 ^h 14'	15°37'	25°36'	26°19'	22°40'	27 ^h 56'	7°23'	4°12'	19 ^h 5	15 ^h 1	14°55'	3°30'	8°44'
S 3	10 44 30	12°52'20"	22° 4'	16°52'	26°19'	27° 2'	22°41'	27°51'	7°25'	4°14'	19° 4'	15° 1'	14°52'	3°36'	8°46'
M 4	10 48 26	13°52'19"	3 ^h 52'	18° 8'	27° 0'	27°45'	22°42'	27°47'	7°27'	4°17'	19° 3'	15° 0'	14°48'	3°43'	8°49'
T 5	10 52 23	14°52'15"	15°41'	19°27'	27°41'	28°28'	22°43'	27°42'	7°30'	4°19'	19° 2'	14°57'	14°45'	3°50'	8°52'
W 6	10 56 19	15°52'09"	27°39'	20°46'	28°20'	29°10'	22°43'	27°38'	7°32'	4°21'	19° 2'	14°52'	14°42'	3°56'	8°55'
T 7	11 0 16	16°52'01"	9 ^h Ω47	22° 8'	28°58'	29°53'	22°44'	27°33'	7°34'	4°23'	19° 1'	14°44'	14°39'	4° 3'	8°58'
F 8	11 4 13	17°51'51"	22° 9'	23°31'	29°34'	0 ^h 35'	22°R44'	27°28'	7°37'	4°26'	19° 1'	14°33'	14°36'	4°10'	9° 0'
S 9	11 8 9	18°51'39"	4 ^h 47'	24°55'	0 ^h 10'	1°18'	22°44'	27°24'	7°39'	4°28'	19° 0'	14°21'	14°33'	4°16'	9° 3'
S 10	11 12 6	19°51'24"	17°42'	26°21'	0°44'	2° 0'	22°43'	27°19'	7°42'	4°30'	19° 0'	14° 7'	14°29'	4°23'	9° 6'
M 11	11 16 2	20°51'08"	0 ^h Ω51	27°48'	1°16'	2°43'	22°43'	27°15'	7°45'	4°32'	18°59'	13°54'	14°26'	4°29'	9° 9'
T 12	11 19 59	21°50'49"	14°14'	29°16'	1°47'	3°25'	22°42'	27°10'	7°47'	4°34'	18°58'	13°43'	14°23'	4°36'	9°12'
W 13	11 23 55	22°50'29"	27°48'	0 ^h 46'	2°16'	4° 8'	22°42'	27° 5'	7°50'	4°37'	18°58'	13°34'	14°20'	4°43'	9°16'
T 14	11 27 52	23°50'07"	11 ^h 31'	2°18'	2°44'	4° 5'	22°41'	27° 0'	7°53'	4°39'	18°58'	13°28'	14°17'	4°49'	9°19'
F 15	11 31 48	24°49'43"	25°22'	3°50'	3°10'	5°32'	22°40'	26°56'	7°55'	4°41'	18°57'	13°25'	14°13'	4°56'	9°22'
S 16	11 35 45	25°49'18"	9 ^h 18'	5°24'	3°35'	6°15'	22°38'	26°51'	7°58'	4°43'	18°57'	13°D24	14°10'	5° 3'	9°25'
S 17	11 39 41	26°48'51"	23°20'	6°59'	3°57'	6°57'	22°37'	26°46'	8° 1'	4°45'	18°56'	13°R24	14° 7'	5° 9'	9°28'
M 18	11 43 38	27°48'22"	7 ^h 36'	8°36'	4°18'	7°39'	22°35'	26°42'	8° 4'	4°47'	18°56'	13°23'	14° 4'	5°16'	9°32'
T 19	11 47 35	28°47'51"	21°37'	10°13'	4°37'	8°21'	22°33'	26°37'	8° 6'	4°50'	18°56'	13°22'	14° 1'	5°23'	9°35'
W 20	11 51 31	29°47'19"	5 ^h 49'	11°53'	4°53'	9° 3'	22°31'	26°32'	8° 9'	4°52'	18°55'	13°18'	13°58'	5°29'	9°39'
T 21	11 55 28	0 ^h 46'45"	20° 2'	13°33'	5° 8'	9°45'	22°29'	26°27'	8°12'	4°54'	18°55'	13°11'	13°54'	5°36'	9°42'
F 22	11 59 24	1°46'08"	4 ^h 9'	15°15'	5°21'	10°27'	22°26'	26°23'	8°15'	4°56'	18°55'	13° 1'	13°51'	5°43'	9°45'
S 23	12 3 21	2°45'30"	18° 9'	16°58'	5°32'	11° 9'	22°24'	26°18'	8°18'	4°58'	18°55'	12°50'	13°48'	5°49'	9°49'
S 24	12 7 17	3°44'50"	1 ^h 54'	18°42'	5°40'	11°51'	22°21'	26°13'	8°21'	5° 0'	18°54'	12°39'	13°45'	5°56'	9°52'
M 25	12 11 14	4°44'08"	15°23'	20°28'	5°46'	12°33'	22°18'	26° 9'	8°24'	5° 2'	18°54'	12°28'	13°42'	6° 3'	9°56'
T 26	12 15 10	5°43'24"	28°32'	22°15'	5°50'	13°15'	22°15'	26° 4'	8°27'	5° 4'	18°54'	12°19'	13°38'	6° 9'	10° 0'
W 27	12 19 7	6°42'37"	11 ^h 20'	24° 4'	5°R51	13°57'	22°11'	26° 0'	8°30'	5° 6'	18°54'	12°12'	13°35'	6°16'	10° 3'
T 28	12 23 4	7°41'48"	23°50'	25°54'	5°50'	14°39'	22° 8'	25°55'	8°33'	5° 8'	18°54'	12° 8'	13°32'	6°23'	10° 7'
F 29	12 27 0	8°40'58"	6 ^h 11'	27°45'	5°47'	15°20'	22° 4'	25°50'	8°36'	5°10'	18°54'	12° 6'	13°29'	6°29'	10°11'
S 30	12 30 57	9°40'05"	18° 2'	29°38'	5°41'	16° 2'	22° 0'	25°46'	8°39'	5°12'	18°54'	12°D 6	13°26'	6°36'	10°14'
S 31	12 34 53	10 ^h 39'09"	29 ^h 53'	1 ^h 32'	5 ^h 32'	16 ^h 44'	21 ^h 56'	25 ^h 41'	8 ^h 43'	5 ^h 14'	18 ^h 53'	12 ^h 11'	13 ^h 23'	6 ^h 43'	10 ^h 18'

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
F 1	7s30	18n23	1s28	17s27	0s57	13n20	3n58	10n 3	0n 9	17s21	1n10	3n 7	2n32	13n36	0s24	10s42	0s45	23n24	1n17	22n38	22n38	25n 4	12n45	1s46
S 2	7 7 21	36 3	0 25	17 13	1 5	13 44	4 6	10 20	0 10	17 21	1 10	3 9	2 32	13 37	0 24	10 41	0 45	23 24	1 17	22 38	22 38	25 5	12 45	1 46
S 3	6 44 23	52 0n37	16 58	1 13	14 7	4 14	10 36	0 11	17 21	1 10	3 11	2 32	13 38	0 24	10 40	0 45	23 24	1 17	22 38	22 37	25 5	12 46	1 46	
M 4	6 21 25	3 1 38	16 41	1 20	14 29	4 21	10 52	0 11	17 21	1 10	3 12	2 32	13 38	0 24	10 40	0 45	23 24	1 17	22 38	22 37	25 6	12 47	1 46	
T 5	5 58 25	7 2 35	16 23	1 27	14 51	4 29	11 8	0 12	17 21	1 10	3 14	2 32	13 39	0 24	10 39	0 45	23 24	1 17	22 38	22 36	25 7	12 48	1 46	
W 6	5 35 24	1 3 25	16 4	1 33	15 12	4 37	11 24	0 13	17 21	1 10	3 16	2 32	13 40	0 24	10 38	0 45	23 24	1 17	22 37	22 36	25 7	12 49	1 46	
T 7	5 12 21	47 4 7	15 43	1 39	15 33	4 45	11 40	0 13	17 21	1 10	3 18	2 32	13 41	0 24	10 37	0 45	23 24	1 18	22 36	22 36	25 8	12 50	1 46	
F 8	4 48 18	32 4 38	15 21	1 44	15 54	4 52	11 55	0 14	17 21	1 11	3 20	2 32	13 42	0 24	10 36	0 45	23 25	1 18	22 35	22 35	25 8	12 51	1 46	
S 9	4 25 14	21 4 56	14 58	1 50	16 13	5 0	12 11	0 15	17 21	1 11	3 22	2 32	13 43	0 24	10 36	0 45	23 25	1 18	22 34	22 35	25 9	12 52	1 46	
S 10	4 1 9	28 4 59	14 33	1 54	16 33	5 8	12 26	0 16	17 20	1 11	3 24	2 33	13 43	0 24	10 35	0 45	23 25	1 18	22 32	22 35	25 10	12 53	1 46	
M 11	3 38 4	3 4 47	14 7	1 59	16 51	5 15	12 41	0 16	17 20	1 11	3 26	2 33	13 44	0 24	10 34	0 45	23 25	1 18	22 31	22 34	25 10	12 54	1 46	
T 12	3 14 1s38	4 19	13 40	2 3	17 9	5 23	12 57	0 17	17 20	1 11	3 28	2 33	13 45	0 24	10 33	0 45	23 25	1 18	22 29	22 34	25 11	12 55	1 46	
W 13	2 51 7	21 3 36	13 11	2 6	17 26	5 30	13 12	0 18	17 20	1 11	3 30	2 33	13 46	0 24	10 32	0 45	23 25	1 18	22 28	22 34	25 12	12 56	1 46	
T 14	2 27 12	47 2 40	12 41	2 9	17 43	5 37	13 27	0 18	17 19	1 11	3 32	2 33	13 47	0 24	10 32	0 45	23 25	1 18	22 27	22 33	25 12	12 57	1 46	
F 15	2 3 17	37 1 34	12 10	2 12	17 59	5 45	13 41	0 19	17 19	1 12	3 34	2 33	13 48	0 24	10 31	0 45	23 25	1 18	22 27	22 33	25 13	12 58	1 46	
S 16	1 40 21	32 0 22	11 37	2 14	18 14	5 52	13 56	0 20	17 18	1 12	3 36	2 33	13 49	0 24	10 30	0 45	23 25	1 18	22 27	22 32	25 13	12 59	1 46	
S 17	1 16 24	11 0s52	11 4	2 16	18 28	5 59	14 11	0 20	17 18	1 12	3 37	2 33	13 50	0 24	10 29	0 45	23 26	1 18	22 27	22 32	25 14	13 0	1 46	
M 18	0 52 25	20 2 4	10 29	2 17	18 42	6 6	14 25	0 21	17 17	1 12	3 39	2 33	13 51	0 24	10 29	0 45	23 26	1 18	22 27	22 32	25 14	13 1	1 46	
T 19	0 29 24	50 3 8	9 52	2 18	18 55	6 12	14 39	0 22	17 17	1 12	3 41	2 33	13 52	0 24	10 28	0 45	23 26	1 18	22 27	22 31	25 15	13 2	1 46	
W 20	0 5 22	44 4 0	9 15	2 18	19 7	6 19	14 53	0 22	17 16	1 12	3 43	2 33	13 52	0 24	10 27	0 46	23 26	1 18	22 26	22 31	25 15	13 3	1 46	
T 21	0n19	19 13 4 38	8 36	2 18	19 18	6 25	15 7	0 23	17 15	1 12	3 45	2 33	13 53	0 24	10 26	0 46	23 26	1 18	22 25	22 31	25 16	13 4	1 46	
F 22	0 42 14	38 4 58	7 56	2 18	19 28	6 31	15 21	0 24	17 15	1 12	3 47	2 33	13 54	0 24	10 26	0 46	23 26	1 18	22 24	22 30	25 17	13 5	1 46	
S 23	1 6 9	18 5 1	7 15	2 17	19 37	6 37	15 35</																	

SWISS EPHEMERIS for the year 1686

APRIL 1686 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
M 1	12 38 50	11°38'11	11°42	3°28	5°R21	17°25	21°R52	25°R37	8°46	5°16	18°D53	12°R 7	13°II19	6°49	10°22
T 2	12 42 46	12°37'11	23°33	5°25	5°R 8	18° 7	21°M48	25°M33	8°49	5°18	18°D53	12°II 7	13°16	6°56	10°26
W 3	12 46 43	13°36'09	5°Ω32	7°23	4°52	18°49	21°43	25°28	8°52	5°20	18°54	12° 4	13°13	7° 3	10°29
T 4	12 50 39	14°35'05	17°44	9°22	4°34	19°30	21°39	25°24	8°55	5°22	18°54	11°59	13°10	7° 9	10°33
F 5	12 54 36	15°33'58	0°M12	11°23	4°13	20°12	21°34	25°20	8°59	5°23	18°54	11°52	13° 7	7°16	10°37
S 6	12 58 33	16°32'48	12°59	13°25	3°50	20°53	21°29	25°15	9° 2	5°25	18°54	11°44	13° 4	7°23	10°41
S 7	13 2 29	17°31'37	26° 6	15°29	3°25	21°34	21°24	25°11	9° 5	5°27	18°54	11°34	13° 0	7°29	10°45
M 8	13 6 26	18°30'23	9°Δ33	17°33	2°58	22°16	21°18	25° 7	9° 8	5°29	18°54	11°25	12°57	7°36	10°49
T 9	13 10 22	19°29'08	23°19	19°38	2°29	22°57	21°13	25° 3	9°12	5°31	18°54	11°17	12°54	7°42	10°53
W10	13 14 19	20°27'50	7°M18	21°44	1°58	23°38	21° 8	24°59	9°15	5°32	18°54	11°11	12°51	7°49	10°57
T 11	13 18 15	21°26'31	21°27	23°51	1°25	24°20	21° 2	24°55	9°18	5°34	18°55	11° 7	12°48	7°56	11° 1
F 12	13 22 12	22°25'10	5°A42	25°58	0°51	25° 1	20°56	24°51	9°22	5°36	18°55	11°D 5	12°44	8° 2	11° 5
S 13	13 26 8	23°23'47	19°59	28° 5	0°16	25°42	20°50	24°47	9°25	5°38	18°55	11° 5	12°41	8° 9	11° 9
S 14	13 30 5	24°22'23	4°B15	0°B12	29°Y40	26°23	20°44	24°43	9°28	5°39	18°56	11° 7	12°38	8°16	11°13
M15	13 34 2	25°20'57	18°27	2°18	29° 3	27° 4	20°38	24°40	9°32	5°41	18°56	11° 8	12°35	8°22	11°17
T 16	13 37 58	26°19'29	2°Δ34	4°24	28°25	27°45	20°32	24°36	9°35	5°42	18°56	11°R 8	12°32	8°29	11°21
W17	13 41 55	27°17'59	16°34	6°29	27°47	28°26	20°25	24°32	9°39	5°44	18°57	11° 6	12°29	8°36	11°25
T 18	13 45 51	28°16'28	0°K27	8°33	27° 9	29° 7	20°19	24°29	9°42	5°46	18°57	11° 2	12°25	8°42	11°29
F 19	13 49 48	29°14'56	14°10	10°35	26°32	29°48	20°12	24°25	9°45	5°47	18°57	10°57	12°22	8°49	11°33
S 20	13 53 44	0°B13'21	27°43	12°35	25°55	0°II29	20° 5	24°22	9°49	5°49	18°58	10°51	12°19	8°56	11°37
S 21	13 57 41	1°11'45	11°Y 2	14°32	25°18	1°10	19°59	24°19	9°52	5°50	18°58	10°44	12°16	9° 2	11°41
M22	14 1 37	2°10'07	24° 8	16°27	24°43	1°51	19°52	24°16	9°56	5°52	18°59	10°38	12°13	9° 9	11°46
T 23	14 5 34	3° 8'28	6°B58	18°20	24° 8	2°31	19°45	24°12	9°59	5°53	18°59	10°32	12°10	9°16	11°50
W24	14 9 31	4° 6'46	19°33	20° 9	23°35	3°12	19°38	24° 9	10° 3	5°55	19° 0	10°29	12° 6	9°22	11°54
T 25	14 13 27	5° 5'03	1°II53	21°55	23° 4	3°53	19°31	24° 6	10° 6	5°56	19° 1	10°27	12° 3	9°29	11°58
F 26	14 17 24	6° 3'18	14° 0	23°38	22°34	4°34	19°23	24° 3	10°10	5°57	19° 1	10°D26	12° 0	9°36	12° 2
S 27	14 21 20	7° 1'31	25°57	25°17	22° 6	5°14	19°16	24° 1	10°13	5°59	19° 2	10°27	11°57	9°42	12° 6
S 28	14 25 17	7°59'42	7°B48	26°52	21°40	5°55	19° 9	23°58	10°17	6° 0	19° 2	10°29	11°54	9°49	12°11
M29	14 29 13	8°57'51	19°37	28°24	21°16	6°35	19° 1	23°55	10°20	6° 1	19° 3	10°31	11°50	9°56	12°15
T 30	14 33 10	9°55'58	1°B29	29°B51	20°Y54	7°II16	18°M54	23°M53	10°B24	6°K 2	19°B 4	10°II32	11°II47	10°B 2	12°B19

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	4n37	25n29	2n32	0s14	1s45	20n 8	7n14	17n32	0n30	17s 5	1n14	4n 5	2n33	14n 4	0s24	10s18	0s46	23n26	1n18	22n17	22n26	25n21	13n16	1s47
T 2	5 0 24	45 3 23	0n38	1 39	20 5	7 16	17 44	0 30	17 4	1 14	4 7	2 33	14 5	0 24	10 18	0 46	23 26	1 18	22 17	22 26	25 22	13 17	1 47	
W 3	5 23	22 54	4 6	1 31	1 33	20 1	7 17	17 56	0 31	17 2	1 14	4 9	2 33	14 6	0 24	10 17	0 46	23 26	1 18	22 17	22 26	25 22	13 18	1 47
T 4	5 46	19 58	4 39	2 25	1 26	19 55	7 17	18 8	0 31	17 1	1 14	4 10	2 33	14 7	0 24	10 16	0 46	23 27	1 18	22 16	22 25	25 23	13 19	1 47
F 5	6 8	16 5	4 59	3 19	1 18	19 47	7 17	18 20	0 32	17 0	1 14	4 12	2 33	14 9	0 24	10 16	0 46	23 27	1 19	22 15	22 25	25 23	13 21	1 47
S 6	6 31	11 24	5 5	4 14	1 10	19 39	7 16	18 32	0 32	16 58	1 14	4 13	2 33	14 10	0 24	10 15	0 46	23 27	1 19	22 14	22 24	25 24	13 22	1 47
S 7	6 54	6 5	4 56	5 9	1 2	19 28	7 15	18 43	0 33	16 57	1 14	4 15	2 33	14 11	0 24	10 14	0 46	23 27	1 19	22 13	22 24	25 24	13 23	1 47
M 8	7 16	0 21	4 30	6 5	0 53	19 17	7 12	18 54	0 33	16 56	1 14	4 17	2 33	14 12	0 24	10 14	0 46	23 27	1 19	22 11	22 24	25 25	13 24	1 47
T 9	7 38	5s32	3 48	7 2	0 43	19 4	7 9	19 5	0 34	16 54	1 14	4 18	2 33	14 13	0 24	10 13	0 46	23 27	1 19	22 10	22 23	25 25	13 25	1 47
W10	8 0	11 16	2 52	7 58	0 34	18 49	7 5	19 16	0 35	16 53	1 14	4 20	2 32	14 14	0 23	10 13	0 46	23 27	1 19	22 9	22 23	25 25	13 26	1 47
T 11	8 23	16 29	1 44	8 54	0 23	18 33	7 1	19 27	0 35	16 51	1 14	4 21	2 32	14 15	0 23	10 12	0 46	23 27	1 19	22 9	22 22	25 26	13 28	1 47
F 12	8 44	20 49	0 29	9 50	0 13	18 16	6 55	19 38	0 36	16 50	1 14	4 23	2 32	14 16	0 23	10 11	0 46	23 27	1 19	22 9	22 22	25 26	13 29	1 47
S 13	9 6	23 54	0s48	10 46	0 3	17 57	6 49	19 48	0 36	16 48	1 14	4 24	2 32	14 17	0 23	10 11	0 46	23 27	1 19	22 9	22 21	25 27	13 30	1 47
S 14	9 28	25 27	2 2	11 41	0n 8	17 37	6 42	19 58	0 37	16 46	1 14	4 26	2 32	14 18	0 23	10 10	0 46	23 27	1 19	22 9	22 21	25 27	13 31	1 47
M15	9 49	25 19	3 8	12 36	0 19	17 17	6 34	20 8	0 37	16 45	1 14	4 27	2 32	14 19	0 23	10 10	0 46	23 27	1 19	22 9	22 21	25 27	13 32	1 47
T 16	10 11	23 33	4 2	13 29	0 30	16 55	6 25	20 18	0 38	16 43	1 14	4 28	2 32	14 20	0 23	10 9	0 46	23 27	1 19	22 9	22 20	25 28	13 34	1 47
W17	10 32	20 22	4 42	14 21	0 41	16 32	6 16	20 28	0 38	16 41	1 15	4 30	2 32	14 21	0 23	10 8	0 46	23 27	1 19	22 9	22 20	25 28	13 35	1 47
T 18	10 53	16 4	5 4	15 12	0 52	16 9	6 6	20 37	0 39	16 40	1 15	4 31	2 32	14 23	0 23	10 8	0 46	23 26	1 19	22 8	22 19	25 28	13 36	1 47
F 19	11 14	10 59	5 9	16 0	1 2	15 45	5 55	20 47	0 39	16 38	1 15	4 32	2 32	14 24	0 23	10 7	0 46	23 26	1 19	22 8	22 19	25 29	13 37	1 47
S 20	11 34	5 26	4 56	16 48	1 13	15 21	5 44	20 56	0 40	16 36	1 15	4 33	2 31	14 25	0 23	10 7	0 46	23 26	1 19	22 7	22 19	25 29	13 38	1 48
S 21	11 55	0n16	4 27	17 33	1 23	14 57	5 32	21 5	0 40	16 34	1 15	4 35	2 31	14 26	0 23	10 6	0 46	23 26	1 19	22 6	22 18	25 29	13 40	1 48
M22	12 15	5 53	3 45	18 16	1 32	14 32	5 19	21 14	0 41	16 32	1 15	4 36	2 31	14 27	0 23	10 6	0 46	23 26	1 19	22 5	22 18	25 30	13 41	1 48
T 23	12 35	11 9	2 52	18 56	1 41	14 7	5 6	21 22	0 41	16 30	1 15	4 37	2 31	14 28	0 23	10 5	0 46	23 26	1 19	22 4	22 17	25 30	13 42	1 48
W24	12 55	15 52	1 51	19 35	1 50	13 42	4 53	21 31	0 41	16 28	1 15	4 38	2 31	14 29	0 23	10 5	0 46	23 26	1 19	22 3	22 17	25 30	13 43	1 48
T 25	13 14	19 49	0 47	20 10	1 58	13 18	4 39	21 39	0 42	16 27	1 15	4 39	2 31	14 30	0 23	10 4	0 46	23 26	1 19	22 3	22 17	25 31	13 44	1 48
F 26	13 34	22 51	0n19	20 44	2 5	12 54	4 26	21 47	0 42	16 25	1 15	4 40	2 31	14 31	0 23	10 4	0 47	23 26	1 19	22 3	22 16	25 31	13 46	1 48
S 27	13 53	24 49	1 24	21 15	2 11	12 30	4 11	21 55	0 43	16 23	1 15	4 41	2 30	14 32	0 23	10 3	0 47	23 26	1 19	22 3	22 16	25 31	13 47	1 48
S 28	14 12	25 39	2 24	21 43	2 17	12 7	3 57	22 2	0 43	16 21	1 15	4 42	2 30	14 33	0 23	10 3	0 47	23 26	1 19	22 3	22 15	25 31	13 48	1 48
M29	14 31	25 19	3 18	22 9	2 22	11 45	3 43	22 10	0 44	16 19	1 14	4 43	2 30	14 35	0 23	10 2	0 4							

SWISS EPHEMERIS for the year 1686

MAY 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	14 37 6	10♂54'03	13♁28	1♁15	20♁R35	7♁57	18♁R47	23♁R50	10♂27	6♁ 4	19♁ 4	10♁R32	11♁44	10♁ 9	12♂23
T 2	14 41 3	11°52'06	25°39	2°34	20♁V18	8°37	18♁L39	23♁M48	10°30	6° 5	19° 5	10♁I31	11°41	10°16	12°27
F 3	14 45 0	12°50'08	8♁ 8	3°50	20° 3	9°17	18°32	23°46	10°34	6° 6	19° 6	10°29	11°38	10°22	12°31
S 4	14 48 56	13°48'07	20°57	5° 1	19°51	9°58	18°24	23°43	10°37	6° 7	19° 7	10°26	11°35	10°29	12°36
S 5	14 52 53	14°46'04	4♁ 9	6° 7	19°41	10°38	18°16	23°41	10°41	6° 8	19° 8	10°22	11°31	10°36	12°40
M 6	14 56 49	15°44'00	17°45	7°10	19°33	11°18	18° 9	23°39	10°44	6° 9	19° 8	10°19	11°28	10°42	12°44
T 7	15 0 46	16°41'54	1♁44	8° 7	19°28	11°59	18° 1	23°37	10°48	6°10	19° 9	10°15	11°25	10°49	12°48
W 8	15 4 42	17°39'46	16° 2	9° 1	19°26	12°39	17°53	23°36	10°51	6°11	19°10	10°13	11°22	10°56	12°52
T 9	15 8 39	18°37'37	0♁35	9°49	19°D25	13°19	17°46	23°34	10°55	6°12	19°11	10°12	11°19	11° 2	12°57
F 10	15 12 35	19°35'27	15°16	10°33	19°27	13°59	17°38	23°32	10°58	6°13	19°12	10°D12	11°15	11° 9	13° 1
S 11	15 16 32	20°33'15	29°59	11°13	19°32	14°40	17°31	23°31	11° 2	6°14	19°13	10°12	11°12	11°16	13° 5
S 12	15 20 29	21°31'02	14♁37	11°48	19°39	15°20	17°23	23°29	11° 5	6°15	19°14	10°14	11° 9	11°22	13° 9
M13	15 24 25	22°28'48	29° 5	12°17	19°47	16° 0	17°15	23°28	11° 8	6°16	19°15	10°15	11° 6	11°29	13°13
T 14	15 28 22	23°26'33	13♁21	12°42	19°58	16°40	17° 8	23°27	11°12	6°17	19°16	10°16	11° 3	11°36	13°17
W15	15 32 18	24°24'16	27°21	13° 3	20°12	17°20	17° 0	23°25	11°15	6°18	19°17	10°R16	11° 0	11°42	13°22
T 16	15 36 15	25°21'59	11♁ 5	13°18	20°27	18° 0	16°53	23°24	11°19	6°18	19°18	10°15	10°56	11°49	13°26
F 17	15 40 11	26°19'40	24°33	13°28	20°44	18°40	16°45	23°24	11°22	6°19	19°19	10°14	10°53	11°56	13°30
S 18	15 44 8	27°17'21	7♁45	13°34	21° 3	19°20	16°38	23°23	11°25	6°20	19°20	10°13	10°50	12° 2	13°34
S 19	15 48 4	28°15'00	20°42	13°R35	21°23	20° 0	16°30	23°22	11°29	6°21	19°21	10°11	10°47	12° 9	13°38
M20	15 52 1	29°12'38	3♁26	13°32	21°46	20°40	16°23	23°21	11°32	6°21	19°22	10° 9	10°44	12°16	13°42
T 21	15 55 58	0♁10'15	15°56	13°24	22°10	21°19	16°16	23°21	11°35	6°22	19°23	10° 8	10°41	12°22	13°46
W22	15 59 54	1° 7'51	28°14	13°11	22°36	21°59	16° 9	23°20	11°39	6°22	19°24	10° 8	10°37	12°29	13°50
T 23	16 3 51	2° 5'26	10♁22	12°55	23° 4	22°39	16° 1	23°20	11°42	6°23	19°25	10°D 7	10°34	12°36	13°54
F 24	16 7 47	3° 3'00	22°22	12°35	23°33	23°19	15°54	23°20	11°45	6°23	19°27	10° 7	10°31	12°42	13°58
S 25	16 11 44	4° 0'33	4♁15	12°12	24° 3	23°59	15°47	23°20	11°49	6°24	19°28	10° 8	10°28	12°49	14° 2
S 26	16 15 40	4°58'04	16° 4	11°45	24°35	24°38	15°41	23°D20	11°52	6°24	19°29	10° 9	10°25	12°56	14° 6
M27	16 19 37	5°55'34	27°53	11°16	25° 8	25°18	15°34	23°20	11°55	6°25	19°30	10° 9	10°21	13° 2	14°10
T 28	16 23 33	6°53'03	9♁45	10°46	25°42	25°58	15°27	23°20	11°58	6°25	19°31	10° 9	10°18	13° 9	14°14
W29	16 27 30	7°50'31	21°44	10°13	26°18	26°37	15°20	23°20	12° 2	6°26	19°33	10°10	10°15	13°16	14°18
T 30	16 31 27	8°47'57	3♁54	9°40	26°55	27°17	15°14	23°21	12° 5	6°26	19°34	10°10	10°12	13°22	14°22
F 31	16 35 23	9♁45'22	16♁20	9♁ 6	27°V33	27°I56	15♁ 7	23♁21	12♁ 8	6♁26	19♁35	10♁10	10♁ 9	13♁29	14♁26

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁	
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
W 1	15n 7	21n16	4n40	22n53	2n29	11n 3	3n14	22n24	0n45	16s15	1n14	4n45	2n30	14n37	0s23	10s 2
T 2	15 25	17 45	5 3	23 11	2 32	10 43	3 0	22 31	0 45	16 13	1 14	4 45	2 30	14 38	0 23	10 1
F 3	15 43	13 23	5 13	23 28	2 33	10 24	2 46	22 38	0 45	16 11	1 14	4 46	2 29	14 39	0 23	10 1
S 4	16 1	8 19	5 9	23 41	2 34	10 7	2 32	22 44	0 46	16 9	1 14	4 47	2 29	14 40	0 23	10 0
S 5	16 18	2 45	4 47	23 53	2 33	9 50	2 18	22 51	0 46	16 7	1 14	4 47	2 29	14 41	0 23	10 0
M 6	16 35	3s 8	4 10	24 2	2 32	9 35	2 4	22 57	0 47	16 5	1 14	4 48	2 29	14 42	0 23	10 0
T 7	16 51	9 2	3 16	24 9	2 29	9 20	1 51	23 3	0 47	16 3	1 14	4 49	2 29	14 43	0 23	9 59
W 8	17 8	14 36	2 9	24 15	2 26	9 7	1 38	23 8	0 47	16 1	1 14	4 49	2 29	14 44	0 23	9 59
T 9	17 24	19 27	0 53	24 18	2 22	8 55	1 25	23 14	0 48	15 58	1 14	4 50	2 28	14 45	0 23	9 59
F 10	17 40	23 8	0s28	24 19	2 16	8 44	1 12	23 19	0 48	15 56	1 14	4 50	2 28	14 47	0 23	9 58
S 11	17 55	25 16	1 47	24 18	2 10	8 35	1 0	23 24	0 49	15 54	1 14	4 51	2 28	14 48	0 23	9 58
S 12	18 10	25 38	2 59	24 16	2 2	8 26	0 48	23 29	0 49	15 52	1 14	4 51	2 28	14 49	0 23	9 58
M13	18 25	24 16	3 58	24 11	1 54	8 19	0 36	23 34	0 49	15 50	1 14	4 51	2 28	14 50	0 23	9 57
T 14	18 40	21 21	4 42	24 5	1 44	8 12	0 25	23 38	0 50	15 48	1 13	4 52	2 27	14 51	0 23	9 57
W15	18 54	17 14	5 8	23 57	1 34	8 7	0 14	23 42	0 50	15 46	1 13	4 52	2 27	14 52	0 23	9 57
T 16	19 8	12 17	5 16	23 48	1 22	8 3	0 3	23 47	0 51	15 44	1 13	4 52	2 27	14 53	0 23	9 57
F 17	19 22	6 51	5 6	23 37	1 10	8 0	0s 7	23 50	0 51	15 42	1 13	4 52	2 27	14 54	0 23	9 56
S 18	19 35	1 13	4 41	23 24	0 57	7 58	0 17	23 54	0 51	15 40	1 13	4 53	2 27	14 55	0 23	9 56
S 19	19 48	4n23	4 1	23 10	0 42	7 56	0 27	23 58	0 52	15 38	1 13	4 53	2 26	14 56	0 23	9 56
M20	20 1	9 42	3 10	22 55	0 27	7 56	0 36	24 1	0 52	15 36	1 13	4 53	2 26	14 57	0 23	9 56
T 21	20 13	14 33	2 10	22 39	0 12	7 57	0 45	24 4	0 52	15 34	1 13	4 53	2 26	14 58	0 23	9 56
W22	20 25	18 44	1 5	22 21	0s 4	7 59	0 54	24 7	0 53	15 32	1 12	4 53	2 26	14 59	0 23	9 55
T 23	20 37	22 4	0n 1	22 2	0 21	8 1	1 2	24 9	0 53	15 31	1 12	4 53	2 26	15 0	0 23	9 55
F 24	20 48	24 23	1 7	21 43	0 38	8 4	1 10	24 12	0 53	15 29	1 12	4 53	2 25	15 1	0 23	9 55
S 25	20 59	25 35	2 10	21 23	0 56	8 8	1 18	24 14	0 54	15 27	1 12	4 52	2 25	15 2	0 23	9 55
S 26	21 10	25 36	3 7	21 2	1 13	8 13	1 25	24 16	0 54	15 25	1 12	4 52	2 25	15 3	0 23	9 55
M27	21 20	24 28	3 55	20 41	1 30	8 19	1 32	24 18	0 54	15 23	1 12	4 52	2 25	15 4	0 23	9 55
T 28	21 30	22 14	4 34	20 19	1 48	8 25	1 39	24 20	0 55	15 21	1 11	4 52	2 25	15 5	0 23	9 55
W29	21 39	19 2	5 1	19 58	2 4	8 32	1 46	24 21	0 55	15 20	1 11	4 51	2 24	15 6	0 23	9 54
T 30	21 48	14 59	5 16	19 37	2 21	8 39	1 52	24 22	0 55	15 18	1 11	4 51	2 24	15 7	0 23	9 54
F 31	21n57	10n15	5n16	19n17	2s36	8n47	1s58	24n23	0n56	15s16	1n11	4n51	2n24	15n 8	0s23	9s54

Julian Day Number = 2336979.5, Delta T = 10.37 sec
 Ecliptic obliquity = 23°28'51, Nutation = - 0°00'17
 Ayanamsha: Fagan/Bradley = 20°21'43, Lahiri = 19°28'43Greg. Calendar

SWISS EPHEMERIS for the year 1686

JUNE 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	16 39 20	10II42'46	29III 6	8°R33	28°V12	28II36	15°R 1	23III22	12III11	6°R26	19III36	10III10	10II 6	13III36	14III30
S 2	16 43 16	11°40'09	12II15	8II 1	28°53	29°15	14III55	23°22	12°14	6°27	19°38	10°10	10° 2	13°42	14°34
M 3	16 47 13	12°37'30	25°50	7°29	29°34	29°55	14°49	23°23	12°17	6°27	19°39	10°10	9°59	13°49	14°38
T 4	16 51 9	13°34'51	9III51	7° 0	0III16	0III34	14°43	23°24	12°21	6°27	19°40	10°10	9°56	13°56	14°42
W 5	16 55 6	14°32'11	24°17	6°33	0°59	1°14	14°37	23°25	12°24	6°27	19°42	10°11	9°53	14° 2	14°45
T 6	16 59 2	15°29'30	9°R 3	6° 9	1°43	1°53	14°31	23°26	12°27	6°27	19°43	10°R11	9°50	14° 9	14°49
F 7	17 2 59	16°26'48	24° 2	5°48	2°28	2°32	14°26	23°27	12°30	6°27	19°45	10°11	9°47	14°16	14°53
S 8	17 6 56	17°24'05	9°R 6	5°31	3°14	3°12	14°20	23°29	12°33	6°R27	19°46	10°10	9°43	14°22	14°57
S 9	17 10 52	18°21'22	24° 7	5°18	4° 1	3°51	14°15	23°30	12°36	6°27	19°47	10° 9	9°40	14°29	15° 0
M10	17 14 49	19°18'39	8°R56	5° 8	4°49	4°30	14°10	23°32	12°39	6°27	19°49	10° 8	9°37	14°36	15° 4
T 11	17 18 45	20°15'55	23°27	5° 3	5°37	5° 9	14° 5	23°33	12°42	6°27	19°50	10° 7	9°34	14°42	15° 8
W12	17 22 42	21°13'11	7°R36	5°D 3	6°26	5°49	14° 0	23°35	12°44	6°27	19°52	10° 7	9°31	14°49	15°11
T 13	17 26 38	22°10'26	21°22	5° 7	7°16	6°28	13°55	23°37	12°47	6°27	19°53	10°D 6	9°27	14°56	15°15
F 14	17 30 35	23° 7'41	4°V45	5°15	8° 6	7° 7	13°51	23°39	12°50	6°27	19°55	10° 7	9°24	15° 2	15°18
S 15	17 34 31	24° 4'56	17°46	5°28	8°57	7°46	13°46	23°41	12°53	6°27	19°56	10° 7	9°21	15° 9	15°22
S 16	17 38 28	25° 2'11	0°R29	5°46	9°49	8°25	13°42	23°43	12°56	6°26	19°57	10° 9	9°18	15°16	15°25
M17	17 42 25	25°59'26	12°56	6° 9	10°41	9° 5	13°38	23°45	12°59	6°26	19°59	10°10	9°15	15°22	15°29
T 18	17 46 21	26°56'40	25°11	6°36	11°34	9°44	13°34	23°47	13° 1	6°26	20° 0	10°11	9°12	15°29	15°32
W19	17 50 18	27°53'54	7°II16	7° 8	12°27	10°23	13°30	23°50	13° 4	6°25	20° 2	10°R12	9° 8	15°36	15°36
T 20	17 54 14	28°51'08	19°13	7°44	13°21	11° 2	13°27	23°52	13° 7	6°25	20° 4	10°11	9° 5	15°42	15°39
F 21	17 58 11	29°48'22	1°R 6	8°25	14°16	11°41	13°23	23°55	13° 9	6°25	20° 5	10°10	9° 2	15°49	15°42
S 22	18 2 7	0°R45'36	12°55	9°10	15°11	12°20	13°20	23°57	13°12	6°24	20° 7	10° 8	8°59	15°56	15°45
S 23	18 6 4	1°42'49	24°44	9°59	16° 6	12°59	13°17	24° 0	13°14	6°24	20° 8	10° 5	8°56	16° 2	15°49
M24	18 10 1	2°40'02	6°R34	10°53	17° 2	13°38	13°14	24° 3	13°17	6°23	20°10	10° 1	8°53	16° 9	15°52
T 25	18 13 57	3°37'15	8°R28	11°51	17°59	14°17	13°11	24° 6	13°19	6°23	20°11	9°58	8°49	16°16	15°55
W26	18 17 54	4°34'27	0°R29	12°53	18°55	14°56	13° 9	24° 9	13°22	6°22	20°13	9°54	8°46	16°22	15°58
T 27	18 21 50	5°31'39	12°41	13°59	19°53	15°35	13° 6	24°12	13°24	6°22	20°14	9°51	8°43	16°29	16° 1
F 28	18 25 47	6°28'50	25° 5	15° 9	20°50	16°13	13° 4	24°15	13°27	6°21	20°16	9°50	8°40	16°36	16° 4
S 29	18 29 43	7°26'02	7°R48	16°23	21°48	16°52	13° 2	24°18	13°29	6°21	20°18	9°D49	8°37	16°42	16° 7
S 30	18 33 40	8°R23'12	20°R51	17°II42	22°R47	17°R31	13°R 0	24°R22	13°R31	6°R20	20°R19	9°II50	8°II33	16°R49	16°R10

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	22n 5	4n57	5n 0	18n57	2s51	8n56	2s 3	24n24	0n56	15s15	1n11	4n50	2n24	15n 9	0s23	9s54	0s48	23n22	1n21	22n 1	22n 0	25n37	14n26	1s52
S 2	22 13	0s43	4 29	18 38	3 5	9 5	2 9	24 25	0 56	15 13	1 10	4 50	2 23	15 10	0 23	9 54	0 48	23 22	1 21	22 1	22 0	25 37	14 27	1 52
M 3	22 21	6 33	3 42	18 20	3 18	9 15	2 14	24 25	0 56	15 11	1 10	4 49	2 23	15 11	0 23	9 54	0 48	23 22	1 21	22 1	21 59	25 37	14 28	1 52
T 4	22 28	12 15	2 41	18 4	3 30	9 25	2 19	24 25	0 57	15 10	1 10	4 48	2 23	15 12	0 23	9 54	0 48	23 22	1 21	22 1	21 59	25 37	14 29	1 52
W 5	22 35	17 28	1 27	17 49	3 40	9 36	2 23	24 26	0 57	15 8	1 10	4 48	2 23	15 13	0 23	9 54	0 48	23 22	1 21	22 1	21 58	25 37	14 30	1 52
T 6	22 41	21 44	0 6	17 36	3 50	9 47	2 27	24 25	0 57	15 7	1 10	4 47	2 23	15 14	0 23	9 54	0 48	23 22	1 21	22 1	21 58	25 37	14 31	1 52
F 7	22 47	24 37	1s16	17 25	3 58	9 59	2 32	24 25	0 58	15 5	1 9	4 47	2 22	15 15	0 23	9 54	0 48	23 21	1 21	22 1	21 57	25 37	14 32	1 53
S 8	22 53	25 43	2 34	17 15	4 4	10 11	2 35	24 24	0 58	15 4	1 9	4 46	2 22	15 16	0 23	9 54	0 48	23 21	1 21	22 1	21 57	25 37	14 33	1 53
S 9	22 58	24 56	3 40	17 8	4 10	10 23	2 39	24 24	0 58	15 3	1 9	4 45	2 22	15 17	0 23	9 54	0 48	23 21	1 21	22 1	21 56	25 37	14 34	1 53
M10	23 3 22	25 4	3 31	17 2	4 14	10 36	2 42	24 23	0 58	15 1	1 9	4 45	2 22	15 17	0 23	9 54	0 48	23 21	1 21	22 1	21 56	25 37	14 35	1 53
T 11	23 7 18	30 5	4 16	58 4	4 16	10 49	2 46	24 21	0 59	15 0	1 9	4 44	2 22	15 18	0 23	9 54	0 48	23 21	1 21	22 0	21 55	25 37	14 36	1 53
W12	23 11 13	37 5	17 16	57 4	4 18	11 2	2 49	24 20	0 59	14 59	1 8	4 43	2 21	15 19	0 23	9 54	0 48	23 21	1 21	22 0	21 55	25 37	14 37	1 53
T 13	23 15 8	11 5	11 16	57 4	4 18	11 25	2 51	24 18	0 59	14 58	1 8	4 42	2 21	15 20	0 23	9 54	0 48	23 20	1 21	22 0	21 54	25 37	14 38	1 53
F 14	23 18 2 31	4 48	17 0	4 17	11 29	2 54	24 17	0 59	14 57	1 8	4 41	2 21	15 21	0 23	9 55	0 48	23 20	1 21	22 0	21 54	25 37	14 38	1 54	
S 15	23 21 3n 7	4 11	17 4	4 15	11 43	2 56	24 15	1 0	14 55	1 8	4 40	2 21	15 22	0 23	9 55	0 48	23 20	1 21	22 0	21 53	25 37	14 39	1 54	
S 16	23 23 8 30	3 22	17 10	4 12	11 57	2 58	24 13	1 0	14 54	1 7	4 39	2 20	15 23	0 23	9 55	0 48	23 20	1 21	22 0	21 53	25 37	14 40	1 54	
M17	23 25 13 27	2 25	17 18	4 8	12 12	3 0	24 10	1 0	14 53	1 7	4 38	2 20	15 23	0 23	9 55	0 48	23 20	1 21	22 0	21 53	25 37	14 41	1 54	
T 18	23 27 17 46	1 22	17 28	4 3	12 26	3 2	24 8	1 0	14 53	1 7	4 37	2 20	15 24	0 23	9 55	0 48	23 20	1 21	22 0	21 52	25 37	14 42	1 54	
W19	23 28 21 18	0 16	17 39	3 57	12 41	3 4	24 5	1 1	14 52	1 7	4 36	2 20	15 25	0 23	9 55	0 48	23 19	1 21	22 0	21 52	25 37	14 43	1 54	
T 20	23 29 23 52	0n50	17 51	3 50	12 56	3 5	24 2	1 1	14 51	1 6	4 35	2 20	15 26	0 23	9 55	0 48	23 19	1 21	22 0	21 51	25 36	14 43	1 55	
F 21	23 29 25 21	1 53	18 5	3 42	13 11	3 6	23 59	1 1	14 50	1 6	4 33	2 19	15 27	0 23	9 56	0 49	23 19	1 21	22 0	21 51	25 36	14 44	1 55	
S 22	23 29 25 41	2 51	18 20	3 34	13 26	3 7	23 56	1 1	14 49	1 6	4 32	2 19	15 27	0 23	9 56	0 49	23 19	1 22	22 0	21 50	25 36	14 45	1 55	
S 23	23 28 24 51	3 41	18 36	3 25	13 41	3 8	23 52	1 2	14 49	1 6	4 31	2 19	15 28	0 23	9 56	0 49	23 19	1 22	22 0	21 50	25 36	14 46	1 55	
M24	23 27 22 54	4 22	18 53	3 15	13 56	3 9	23 48	1 2	14 48	1 5	4 30	2 19	15 29	0 23	9 56	0 49	23 19	1 22	21 59	21 49	25 36	14 47	1 55	
T 25	23 26 19 57	4 52	19 11	3 5	14 11	3 10	23 45	1 2	14 47	1 5	4 28	2 19	15 30	0 23	9 56	0 49	23 18	1 22	21 59	21 49	25 36	14 47	1 55	
W26	23 24 16 8	5 10	19 30	2 55	14 26	3 10	23 40	1 2	14 47	1 5	4 27	2 18	15 30	0 23	9 57	0 49	23 18	1 22	21 58	21 48	25 36	14 48	1 56	
T 27	23 22 11 38	5 14	19 49	2 44	14 41	3 10	23 36	1 2	14 46	1 5	4 25	2 18	15 31	0 23	9 57	0 49	23 18	1 22	21 58	21 48	25 36	14 49	1 56	
F 28	23 19 6 35	5 3	20 8	2 32	14 56	3 10	23 32	1 3	14 46	1 4	4 24	2 18	15 32	0 23	9 57	0 49	23 18	1 22	21 58	21 47	25 35	14 49	1 56	
S 29	23 16 1 9	4 37	20 27	2 20	15 11	3 10	23 27	1 3	14 46	1 4	4 22	2 18	15 33	0 23	9 57	0 49	23 18	1 22	21 58	21 47	25 35	14 50	1 56	
S 30	23n1																							

SWISS EPHEMERIS for the year 1686

JULY 1686 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	18 37 36	9°20'23	4♐19	19♊4	23♄45	18♂10	12°R59	24♃25	13♅34	6°R19	20♁21	9♁51	8♁30	16♁56	16♁13
T 2	18 41 33	10°17'34	18°14	20°29	24°45	18°49	12♐57	24°29	13°36	6°18	20°22	9°52	8°27	17°3	16°16
W 3	18 45 29	11°14'44	2♊34	21°59	25°44	19°28	12°56	24°32	13°38	6°18	20°24	9°R53	8°24	17°9	16°19
T 4	18 49 26	12°11'55	17°19	23°32	26°44	20°6	12°55	24°36	13°40	6°17	20°25	9°53	8°21	17°16	16°22
F 5	18 53 23	13°9'05	2♄22	25°9	27°44	20°45	12°54	24°40	13°43	6°16	20°27	9°52	8°18	17°23	16°24
S 6	18 57 19	14°6'16	17°36	26°50	28°45	21°24	12°53	24°44	13°45	6°15	20°29	9°49	8°14	17°29	16°27
S 7	19 1 16	15°3'27	2♁50	28°34	29°46	22°2	12°52	24°48	13°47	6°14	20°30	9°45	8°11	17°36	16°30
M 8	19 5 12	16°0'38	17°55	0♁21	0♁47	22°41	12°52	24°52	13°49	6°14	20°32	9°40	8°8	17°43	16°32
T 9	19 9 9	16°57'50	2♁41	2°11	1°48	23°20	12°52	24°56	13°51	6°13	20°34	9°34	8°5	17°49	16°35
W10	19 13 5	17°55'02	17°3	4°4	2°50	23°58	12°D52	25°0	13°53	6°12	20°35	9°30	8°2	17°56	16°37
T 11	19 17 2	18°52'14	0♁56	6°0	3°52	24°37	12°52	25°5	13°55	6°11	20°37	9°27	7°59	18°3	16°40
F 12	19 20 59	19°49'28	14°21	7°59	4°54	25°16	12°52	25°9	13°56	6°10	20°38	9°D26	7°55	18°9	16°42
S 13	19 24 55	20°46'42	27°21	9°59	5°57	25°54	12°52	25°13	13°58	6°9	20°40	9°26	7°52	18°16	16°45
S 14	19 28 52	21°43'56	9♁58	12°2	7°0	26°33	12°53	25°18	14°0	6°8	20°42	9°27	7°49	18°23	16°47
M15	19 32 48	22°41'12	22°17	14°6	8°3	27°12	12°54	25°22	14°2	6°7	20°43	9°28	7°46	18°29	16°49
T 16	19 36 45	23°38'28	4♁23	16°11	9°6	27°50	12°55	25°27	14°3	6°6	20°45	9°R29	7°43	18°36	16°52
W17	19 40 41	24°35'45	16°19	18°18	10°10	28°29	12°56	25°32	14°5	6°4	20°46	9°29	7°39	18°43	16°54
T 18	19 44 38	25°33'03	28°10	20°25	11°13	29°7	12°58	25°37	14°7	6°3	20°48	9°27	7°36	18°49	16°56
F 19	19 48 34	26°30'22	9♁59	22°32	12°17	29°46	12°59	25°42	14°8	6°2	20°50	9°23	7°33	18°56	16°58
S 20	19 52 31	27°27'41	21°47	24°40	13°22	0♁24	13°1	25°46	14°10	6°1	20°51	9°17	7°30	19°3	17°0
S 21	19 56 28	28°25'01	3♁38	26°47	14°26	1°3	13°3	25°52	14°11	6°0	20°53	9°9	7°27	19°9	17°2
M22	20 0 24	29°22'22	15°33	28°53	15°31	1°41	13°5	25°57	14°13	5°59	20°55	9°0	7°24	19°16	17°4
T 23	20 4 21	0♁19'43	27°34	1♁0	16°36	2°20	13°7	26°2	14°14	5°57	20°56	8°51	7°20	19°23	17°6
W24	20 8 17	1°17'05	9♁42	3°5	17°41	2°58	13°10	26°7	14°15	5°56	20°58	8°41	7°17	19°29	17°7
T 25	20 12 14	2°14'28	21°59	5°9	18°46	3°37	13°12	26°12	14°17	5°55	20°59	8°34	7°14	19°36	17°9
F 26	20 16 10	3°11'51	4♁28	7°12	19°51	4°15	13°15	26°18	14°18	5°53	21°1	8°28	7°11	19°43	17°11
S 27	20 20 7	4°9'14	17°11	9°14	20°57	4°53	13°18	26°23	14°19	5°52	21°3	8°24	7°8	19°49	17°12
S 28	20 24 3	5°6'39	0♁12	11°14	22°3	5°32	13°21	26°29	14°20	5°51	21°4	8°D23	7°5	19°56	17°14
M29	20 28 0	6°4'04	13°33	13°13	23°9	6°10	13°24	26°34	14°21	5°49	21°6	8°23	7°1	20°3	17°16
T 30	20 31 57	7°1'29	27°17	15°11	24°15	6°49	13°28	26°40	14°22	5°48	21°7	8°24	6°58	20°10	17°17
W31	20 35 53	7♁58'56	11♁26	17♁7	25♁21	7♁27	13♁32	26♁45	14♁23	5♁47	21♁9	8°R24	6♁55	20♁16	17♁18

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	23n 9	10s 7	3n 3	21n 6	1s56	15n41	3s10	23n17	1n 3	14s45	1n 4	4n19	2n17	15n34	0s23	9s58	0s49	23n17	1n22	21n58	21n46	25n35	14n51	1s57
T 2	23 5 15	26 1 56	21 25	1 43	15 55	3 10	23 12	1 3	14 45	1 3	4 18	2 17	15 35	0 23	9 58	0 49	23 17	1 22	21 58	21 45	25 35	14 52	1 57	
W 3	23 0 20	3 0 40	21 44	1 30	16 10	3 9	23 7	1 4	14 45	1 3	4 16	2 17	15 35	0 23	9 59	0 49	23 17	1 22	21 58	21 45	25 35	14 53	1 57	
T 4	22 55 23	33 0s41	22 2	1 18	16 24	3 8	23 1	1 4	14 44	1 3	4 14	2 17	15 36	0 23	9 59	0 49	23 17	1 22	21 58	21 44	25 34	14 53	1 57	
F 5	22 50 25	27 2	0 22	19 1	5 16	39 3	7 22	56 1	4 14 44	1 3	4 13	2 17	15 37	0 23	9 59	0 49	23 17	1 22	21 58	21 44	25 34	14 54	1 57	
S 6	22 44 25	29 3 11	22 35	0 52	16 53	3 6	22 50	1 4	14 44	1 2	4 11	2 17	15 37	0 23	9 59	0 49	23 16	1 22	21 58	21 43	25 34	14 55	1 57	
S 7	22 38 23	36 4 9	22 49	0 39	17 7	3 5	22 44	1 4	14 45	1 2	4 9	2 16	15 38	0 23	10 0	0 49	23 16	1 22	21 57	21 43	25 34	14 55	1 58	
M 8	22 31 20	4 4 49	23 2	0 27	17 21	3 4	22 38	1 5	14 45	1 2	4 8	2 16	15 38	0 23	10 0	0 49	23 16	1 22	21 56	21 42	25 34	14 56	1 58	
T 9	22 24 15	20 3 5	9 23	13	0 14	17 34	3 3	22 31	1 5	14 45	1 2	4 6	2 16	15 39	0 23	10 1	0 49	23 16	1 23	21 55	21 42	25 33	14 56	1 58
W10	22 17 9	5 5 8	23 23	0 2	17 48	3 1	22 25	1 5	14 45	1 1	4 4	2 16	15 40	0 23	10 1	0 49	23 16	1 23	21 55	21 41	25 33	14 57	1 58	
T 11	22 9 4	3 4 50	23 30	0n 9	18 1	3 0	22 18	1 5	14 45	1 1	4 2	2 16	15 40	0 23	10 1	0 49	23 15	1 23	21 54	21 41	25 33	14 57	1 58	
F 12	22 1 1n45	4 15	23 35	0 20	18 14	2 58	22 11	1 5	14 46	1 1	4 0	2 15	15 41	0 23	10 2	0 49	23 15	1 23	21 54	21 40	25 33	14 58	1 59	
S 13	21 52 7	18 3 29	23 37	0 31	18 26	2 56	22 4	1 5	14 46	1 1	3 58	2 15	15 41	0 23	10 2	0 49	23 15	1 23	21 54	21 40	25 32	14 58	1 59	
S 14	21 43 12	24 2 33	23 37	0 41	18 39	2 55	21 57	1 6	14 47	1 0	3 56	2 15	15 42	0 23	10 3	0 49	23 15	1 23	21 54	21 39	25 32	14 59	1 59	
M15	21 34 16	53 1 32	23 34	0 51	18 51	2 53	21 50	1 6	14 47	1 0	3 54	2 15	15 42	0 23	10 3	0 49	23 15	1 23	21 55	21 39	25 32	14 59	1 59	
T 16	21 24 20	36 0 28	23 29	1 0	19 2	2 51	21 42	1 6	14 48	1 0	3 52	2 15	15 43	0 23	10 3	0 49	23 15	1 23	21 55	21 38	25 32	15 0	1 59	
W17	21 14 23	23 0n37	23 21	1 8	19 14	2 49	21 35	1 6	14 48	0 59	3 50	2 15	15 43	0 23	10 4	0 49	23 14	1 23	21 55	21 38	25 31	15 0	2 0	
T 18	21 4 25	7 1 39	23 10	1 15	19 25	2 46	21 27	1 6	14 49	0 59	3 48	2 14	15 44	0 23	10 4	0 49	23 14	1 23	21 54	21 37	25 31	15 0	2 0	
F 19	20 53 25	43 3 27	22 56	1 22	19 36	2 44	21 19	1 6	14 50	0 59	3 46	2 14	15 44	0 24	10 5	0 49	23 14	1 23	21 54	21 36	25 31	15 1	2 0	
S 20	20 42 25	8 3 28	22 40	1 28	19 46	2 42	21 11	1 6	14 50	0 59	3 44	2 14	15 45	0 24	10 5	0 49	23 14	1 23	21 53	21 36	25 30	15 1	2 0	
S 21	20 31 23	25 4 10	22 21	1 33	19 56	2 39	21 3	1 7	14 51	0 58	3 42	2 14	15 45	0 24	10 6	0 49	23 14	1 23	21 52	21 35	25 30	15 1	2 0	
M22	20 19 20	40 4 41	22 0	1 37	20 6	2 37	20 54	1 7	14 52	0 58	3 40	2 14	15 45	0 24	10 6	0 50	23 13	1 23	21 50	21 35	25 30	15 2	2 1	
T 23	20 7 17	2 5 0	21 36	1 40	20 15	2 34	20 46	1 7	14 53	0 58	3 37	2 14	15 46	0 24	10 7	0 50	23 13	1 23	21 49	21 34	25 30	15 2	2 1	
W24	19 54 12	40 5 6	21 11	1 43	20 32	2 31	20 37	1 7	14 54	0 58	3 35	2 14	15 46	0 24	10 7	0 50	23 13	1 23	21 47	21 34	25 29	15 2	2 1	
T 25	19 42 7	44 4 58	20 43	1 45	20 24	2 29	20 28	1 7	14 55	0 57	3 33	2 13	15 47	0 24	10 8	0 50	23 13	1 24	21 46	21 33	25 29	15 3	2 1	
F 26	19 29 2 26	4 35	20 13	1 46	20 40	2 26	20 19	1 7	14 56	0 57	3 31	2 13	15 47	0 24	10 8	0 50	23 13	1 24	21 45	21 33	25 29	15 3	2 2	
S 27	19 15 3s 5	3 59	19 42	1 47	20 48	2 23	20 10	1 7	14 57	0 57	3 28	2 13	15 47	0 24	10 9	0 50	23 13	1 24	21 45	21 32	25 28	15 3	2 2	
S 28	19 1 8 36	3 10	19 9	1 47	20 55	2 20	20 1	1 7	14 58	0 57	3 26	2 13	15 48	0 24	10 9	0 50	23 12	1 24	21 44	21 32	25 28	15 3	2 2	
M29	18 47 13	53 2 9	18 34	1 46	21 1	2 17	19 51	1 8	15 0	0 56	3 24	2 13	15 48	0 24	10 10	0 50	23 12	1 24	21 44	21 31	25 27	15 4		

SWISS EPHEMERIS for the year 1686

AUGUST 1686 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	20 39 50	8♁56'23	25♂59	19♁1	26♁28	8♁5	13♁35	26♁51	14♁24	5°R45	21♁10	8°R23	6♁52	20♁23	17♁20
F 2	20 43 46	9°53'51	10♁52	20°54	27°34	8°44	13°39	26°57	14°25	5°K44	21°12	8♁19	6°49	20°30	17°21
S 3	20 47 43	10°51'20	26°0	22°46	28°41	9°22	13°44	27°3	14°26	5°42	21°13	8°14	6°45	20°36	17°22
S 4	20 51 39	11°48'50	11♁13	24°35	29°48	10°0	13°48	27°9	14°27	5°41	21°15	8°6	6°42	20°43	17°23
M 5	20 55 36	12°46'21	26°20	26°24	0♁55	10°39	13°52	27°15	14°28	5°39	21°17	7°56	6°39	20°50	17°24
T 6	20 59 32	13°43'53	11♁13	28°11	2°2	11°17	13°57	27°21	14°28	5°38	21°18	7°47	6°36	20°56	17°26
W 7	21 3 29	14°41'26	25°41	29°56	3°10	11°55	14°2	27°27	14°29	5°36	21°20	7°38	6°33	21°3	17°27
T 8	21 7 26	15°39'01	9♁42	1♁40	4°17	12°34	14°7	27°33	14°30	5°35	21°21	7°32	6°30	21°10	17°27
F 9	21 11 22	16°36'37	23°12	3°22	5°25	13°12	14°12	27°39	14°30	5°33	21°23	7°27	6°26	21°16	17°28
S 10	21 15 19	17°34'15	6♁15	5°3	6°33	13°50	14°17	27°45	14°31	5°32	21°24	7°25	6°23	21°23	17°29
S 11	21 19 15	18°31'54	18°53	6°42	7°41	14°28	14°22	27°51	14°31	5°30	21°26	7°D24	6°20	21°30	17°30
M12	21 23 12	19°29'35	1♁10	8°20	8°49	15°7	14°28	27°58	14°32	5°29	21°27	7°R25	6°17	21°36	17°31
T 13	21 27 8	20°27'17	13°14	9°56	9°58	15°45	14°34	28°4	14°32	5°27	21°28	7°25	6°14	21°43	17°31
W14	21 31 5	21°25'02	25°7	11°31	11°6	16°23	14°39	28°10	14°32	5°26	21°30	7°23	6°11	21°50	17°32
T 15	21 35 1	22°22'47	6♁56	13°4	12°15	17°1	14°45	28°17	14°33	5°24	21°31	7°20	6°7	21°56	17°32
F 16	21 38 58	23°20'35	18°44	14°36	13°24	17°40	14°52	28°23	14°33	5°22	21°33	7°14	6°4	22°3	17°33
S 17	21 42 55	24°18'24	0♁35	16°7	14°32	18°18	14°58	28°30	14°33	5°21	21°34	7°5	6°1	22°10	17°33
S 18	21 46 51	25°16'14	12°31	17°36	15°41	18°56	15°4	28°37	14°33	5°19	21°36	6°53	5°58	22°17	17°33
M19	21 50 48	26°14'06	24°34	19°4	16°51	19°34	15°11	28°43	14°33	5°18	21°37	6°40	5°55	22°23	17°34
T 20	21 54 44	27°11'59	6♁45	20°30	18°0	20°13	15°18	28°50	14°R33	5°16	21°38	6°27	5°51	22°30	17°34
W21	21 58 41	28°9'54	19°5	21°55	19°9	20°51	15°25	28°57	14°33	5°14	21°40	6°14	5°48	22°37	17°34
T 22	22 2 37	29°7'50	1♁35	23°18	20°19	21°29	15°32	29°3	14°33	5°13	21°41	6°2	5°45	22°43	17°R34
F 23	22 6 34	0♁54'8	14°15	24°39	21°28	22°7	15°39	29°10	14°33	5°11	21°42	5°53	5°42	22°50	17°34
S 24	22 10 30	1°34'7	27°7	25°59	22°38	22°45	15°46	29°17	14°33	5°9	21°44	5°47	5°39	22°57	17°34
S 25	22 14 27	2°14'8	10♁13	27°17	23°48	23°24	15°53	29°24	14°32	5°8	21°45	5°44	5°36	23°3	17°34
M26	22 18 24	2°59'50	23°34	28°34	24°58	24°2	16°1	29°31	14°32	5°6	21°46	5°43	5°32	23°10	17°34
T 27	22 22 20	3°57'53	7♁13	29°49	26°8	24°40	16°9	29°37	14°32	5°4	21°47	5°43	5°29	23°17	17°33
W28	22 26 17	4°55'58	21°11	1♁2	27°18	25°18	16°16	29°44	14°31	5°3	21°49	5°42	5°26	23°23	17°33
T 29	22 30 13	5°54'04	5♁29	2°13	28°28	25°56	16°24	29°51	14°31	5°1	21°50	5°41	5°23	23°30	17°33
F 30	22 34 10	6°52'11	20°4	3°22	29°38	26°34	16°32	29°58	14°30	5°0	21°51	5°36	5°20	23°37	17°32
S 31	22 38 6	7♁50'20	4♁53	4♁29	0♁49	27°13	16°41	0♁5	14♁30	4♁58	21♁52	5♁30	5♁17	23♁43	17♁32

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	18n 3	24s58	1s33	16n44	1n40	21n18	2s 8	19n22	1n 8	15s 4	0n56	3n17	2n12	15n49	0s24	10s11	0s50	23n12	1n24	21n44	21n30	25n26	15n 4	2s 3
F 2	17 48	25 46	2 44	16 5	1 37	21 23	2 5	19 12	1 8	15 5	0 55	3 14	2 12	15 49	0 24	10 12	0 50	23 12	1 24	21 44	21 29	25 26	15 4	2 3
S 3	17 32	24 40	3 45	15 26	1 34	21 27	2 1	19 2	1 8	15 7	0 55	3 12	2 12	15 49	0 24	10 12	0 50	23 11	1 24	21 43	21 29	25 26	15 4	2 3
S 4	17 17	21 47	4 31	14 45	1 30	21 31	1 58	18 52	1 8	15 8	0 55	3 9	2 12	15 49	0 24	10 13	0 50	23 11	1 24	21 42	21 28	25 25	15 5	2 4
M 5	17 0	17 25	4 57	14 4	1 25	21 34	1 55	18 42	1 8	15 10	0 55	3 7	2 12	15 50	0 24	10 14	0 50	23 11	1 24	21 40	21 27	25 25	15 5	2 4
T 6	16 44	12 2	5 3	13 23	1 20	21 37	1 51	18 31	1 8	15 11	0 54	3 4	2 12	15 50	0 24	10 14	0 50	23 11	1 24	21 39	21 27	25 24	15 5	2 4
W 7	16 27	6 8	4 48	12 41	1 15	21 39	1 48	18 20	1 8	15 13	0 54	3 2	2 12	15 50	0 24	10 15	0 50	23 11	1 25	21 37	21 26	25 24	15 5	2 4
T 8	16 10	0 6	4 17	11 59	1 9	21 40	1 45	18 10	1 9	15 15	0 54	2 59	2 12	15 50	0 24	10 15	0 50	23 11	1 25	21 36	21 26	25 23	15 5	2 4
F 9	15 53	5n45	3 32	11 17	1 3	21 41	1 41	17 59	1 9	15 16	0 54	2 57	2 11	15 50	0 24	10 16	0 50	23 10	1 25	21 36	21 25	25 23	15 5	2 5
S 10	15 36	11 9	2 38	10 34	0 57	21 42	1 38	17 48	1 9	15 18	0 53	2 54	2 11	15 51	0 24	10 16	0 50	23 10	1 25	21 35	21 25	25 23	15 5	2 5
S 11	15 18	15 55	1 37	9 51	0 51	21 41	1 34	17 37	1 9	15 20	0 53	2 52	2 11	15 51	0 24	10 17	0 50	23 10	1 25	21 35	21 24	25 22	15 5	2 5
M12	15 0	19 53	0 33	9 8	0 44	21 41	1 31	17 26	1 9	15 22	0 53	2 49	2 11	15 51	0 24	10 18	0 50	23 10	1 25	21 35	21 24	25 22	15 5	2 5
T 13	14 42	22 56	0n31	8 25	0 37	21 40	1 27	17 14	1 9	15 24	0 53	2 46	2 11	15 51	0 24	10 18	0 50	23 10	1 25	21 35	21 23	25 21	15 5	2 6
W14	14 23	24 56	1 33	7 42	0 29	21 38	1 23	17 3	1 9	15 26	0 53	2 44	2 11	15 51	0 24	10 19	0 50	23 10	1 25	21 35	21 23	25 21	15 5	2 6
T 15	14 5	25 48	2 30	7 0	0 22	21 35	1 20	16 51	1 9	15 28	0 52	2 41	2 11	15 51	0 24	10 19	0 50	23 9	1 25	21 34	21 22	25 20	15 5	2 6
F 16	13 46	25 28	3 20	6 17	0 14	21 32	1 16	16 40	1 9	15 30	0 52	2 38	2 11	15 51	0 24	10 20	0 50	23 9	1 25	21 33	21 21	25 20	15 5	2 6
S 17	13 27	24 0	4 2	5 34	0 6	21 29	1 13	16 28	1 9	15 32	0 52	2 36	2 11	15 51	0 24	10 21	0 50	23 9	1 25	21 32	21 21	25 19	15 4	2 6
S 18	13 7	21 27	4 34	4 52	0s 2	21 25	1 9	16 16	1 9	15 34	0 52	2 33	2 11	15 51	0 24	10 21	0 50	23 9	1 25	21 30	21 20	25 19	15 4	2 7
M19	12 48	17 58	4 53	4 10	0 11	21 20	1 5	16 4	1 9	15 36	0 51	2 30	2 10	15 51	0 24	10 22	0 50	23 9	1 25	21 28	21 20	25 18	15 4	2 7
T 20	12 28	13 41	5 0	3 29	0 19	21 15	1 2	15 52	1 9	15 38	0 51	2 28	2 10	15 51	0 24	10 22	0 50	23 9	1 26	21 25	21 19	25 18	15 4	2 7
W21	12 8	8 49	4 53	2 47	0 28	21 9	0 58	15 40	1 9	15 40	0 51	2 25	2 10	15 51	0 24	10 23	0 50	23 9	1 26	21 23	21 19	25 17	15 4	2 7
T 22	11 48	3 31	4 31	2 6	0 37	21 3	0 54	15 28	1 9	15 43	0 51	2 22	2 10	15 51	0 24	10 24	0 50	23 9	1 26	21 21	21 18	25 17	15 4	2 8
F 23	11 27	2s 0	3 56	1 26	0 45	20 56	0 51	15 15	1 10	15 45	0 51	2 19	2 10	15 51	0 24	10 24	0 50	23 8	1 26	21 20	21 18	25 16	15 3	2 8
S 24	11 7	7 32	3 9	0 46	0 54	20 48	0 47	15 3	1 10	15 47	0 50	2 17	2 10	15 51	0 24	10 25	0 50	23 8	1 26	21 19	21 17	25 15	15 3	2 8
S 25	10 46	12 51	2 10	0 7	1 3	20 40	0 44	14 50	1 10	15 49	0 50	2 14	2 10	15 51	0 24	10 25	0 50	23 8	1 26	21 18	21 16	25 15	15 3	2 8
M26	10 25	17 40	1 4	0s32	1 12	20 31	0 40	14 38	1 10	15 52	0 50	2 11	2 10	15 51	0 24	10 26	0 50	23 8	1 26	21 18	21 16	25 14	15 3	2 9
T 27	10 4	21 41	0s 8	1 10	1 21	20 22	0 36	14 25	1 10	15 54	0 50	2 8	2 10	15 51	0 24	10 27	0 50	23 8	1 26	21 18	21 15	25 14	15 2	2 9
W28	9 43	24 32	1 21	1 47	1 30	20 12	0 33	14 12	1 10	15 57	0 49	2 5	2 10	15 51	0 24	10 27	0 50	23 8	1 26	21 18	21 15	25 13	15 2	2 9
T 29	9 22	25 52	2 30	2 24	1 39	20 2	0 29	13 59																

SWISS EPHEMERIS for the year 1686

SEPTEMBER 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	22 42 3	8 ^m 48'31	19 ^{ss} 50	5 ^{ss} 34	1 ^{ss} 59	27 ^{ss} 51	16 ^m 49	0 ^{ss} 12	14 ^R 29	4 ^R 56	21 ^{ss} 54	5 ^R 20	5 ^{II} 13	23 ^{ss} 50	17 ^R 31
M 2	22 45 59	9 ^o 46'43	4 ^h 44	6 ^o 37	3 ^o 10	28 ^o 29	16 ^o 57	0 ^o 20	14 ^R 29	4 ^h 55	21 ^o 55	5 ^{II} 9	5 ^o 10	23 ^o 57	17 ^R 30
T 3	22 49 56	10 ^o 44'57	19 ^o 28	7 ^o 37	4 ^o 21	29 ^o 7	17 ^o 6	0 ^o 27	14 ^o 28	4 ^o 53	21 ^o 56	4 ^o 58	5 ^o 7	24 ^o 4	17 ^o 30
W 4	22 53 53	11 ^o 43'13	3 ^h 52	8 ^o 35	5 ^o 32	29 ^o 45	17 ^o 14	0 ^o 34	14 ^o 27	4 ^o 51	21 ^o 57	4 ^o 47	5 ^o 4	24 ^o 10	17 ^o 29
T 5	22 57 49	12 ^o 41'30	17 ^o 52	9 ^o 30	6 ^o 43	0 ^m 23	17 ^o 23	0 ^o 41	14 ^o 27	4 ^o 50	21 ^o 58	4 ^o 39	5 ^o 1	24 ^o 17	17 ^o 28
F 6	23 1 46	13 ^o 39'50	1 ^h 25	10 ^o 21	7 ^o 54	1 ^o 1	17 ^o 32	0 ^o 48	14 ^o 26	4 ^o 48	21 ^o 59	4 ^o 33	4 ^o 57	24 ^o 24	17 ^o 27
S 7	23 5 42	14 ^o 38'11	14 ^o 30	11 ^o 10	9 ^o 5	1 ^o 39	17 ^o 41	0 ^o 55	14 ^o 25	4 ^o 46	22 ^o 0	4 ^o 29	4 ^o 54	24 ^o 30	17 ^o 26
S 8	23 9 39	15 ^o 36'35	27 ^o 10	11 ^o 56	10 ^o 16	2 ^o 18	17 ^o 50	1 ^o 3	14 ^o 24	4 ^o 45	22 ^o 1	4 ^o 28	4 ^o 51	24 ^o 37	17 ^o 25
M 9	23 13 35	16 ^o 35'01	9 ^{II} 30	12 ^o 37	11 ^o 28	2 ^o 56	17 ^o 59	1 ^o 10	14 ^o 23	4 ^o 43	22 ^o 2	4 ^o D28	4 ^o 48	24 ^o 44	17 ^o 24
T 10	23 17 32	17 ^o 33'29	21 ^o 35	13 ^o 15	12 ^o 39	3 ^o 34	18 ^o 9	1 ^o 17	14 ^o 22	4 ^o 42	22 ^o 3	4 ^o R28	4 ^o 45	24 ^o 50	17 ^o 23
W 11	23 21 28	18 ^o 32'00	3 ^{ss} 29	13 ^o 49	13 ^o 51	4 ^o 12	18 ^o 18	1 ^o 24	14 ^o 21	4 ^o 40	22 ^o 5	4 ^o 27	4 ^o 42	24 ^o 57	17 ^o 22
T 12	23 25 25	19 ^o 30'32	15 ^o 19	14 ^o 18	15 ^o 2	4 ^o 50	18 ^o 28	1 ^o 32	14 ^o 20	4 ^o 38	22 ^o 5	4 ^o 24	4 ^o 38	25 ^o 4	17 ^o 21
F 13	23 29 22	20 ^o 29'07	27 ^o 9	14 ^o 42	16 ^o 14	5 ^o 28	18 ^o 37	1 ^o 39	14 ^o 19	4 ^o 37	22 ^o 6	4 ^o 19	4 ^o 35	25 ^o 10	17 ^o 19
S 14	23 33 18	21 ^o 27'44	9 ^{ss} 3	15 ^o 1	17 ^o 26	6 ^o 6	18 ^o 47	1 ^o 46	14 ^o 18	4 ^o 35	22 ^o 7	4 ^o 11	4 ^o 32	25 ^o 17	17 ^o 18
S 15	23 37 15	22 ^o 26'23	21 ^o 5	15 ^o 15	18 ^o 38	6 ^o 45	18 ^o 57	1 ^o 54	14 ^o 16	4 ^o 34	22 ^o 8	4 ^o 1	4 ^o 29	25 ^o 24	17 ^o 17
M 16	23 41 11	23 ^o 25'04	3 ^m 16	15 ^o 23	19 ^o 50	7 ^o 23	19 ^o 7	2 ^o 1	14 ^o 15	4 ^o 32	22 ^o 9	3 ^o 49	4 ^o 26	25 ^o 31	17 ^o 15
T 17	23 45 8	24 ^o 23'47	15 ^o 40	15 ^o R24	21 ^o 2	8 ^o 1	19 ^o 17	2 ^o 8	14 ^o 14	4 ^o 31	22 ^o 10	3 ^o 36	4 ^o 22	25 ^o 37	17 ^o 14
W 18	23 49 4	25 ^o 22'32	28 ^o 15	15 ^o 19	22 ^o 14	8 ^o 39	19 ^o 27	2 ^o 16	14 ^o 12	4 ^o 29	22 ^o 11	3 ^o 24	4 ^o 19	25 ^o 44	17 ^o 12
T 19	23 53 1	26 ^o 21'19	11 ^{ss} 3	15 ^o 7	23 ^o 26	9 ^o 17	19 ^o 37	2 ^o 23	14 ^o 11	4 ^o 28	22 ^o 12	3 ^o 13	4 ^o 16	25 ^o 51	17 ^o 11
F 20	23 56 57	27 ^o 20'08	24 ^o 2	14 ^o 47	24 ^o 39	9 ^o 55	19 ^o 48	2 ^o 30	14 ^o 9	4 ^o 26	22 ^o 13	3 ^o 5	4 ^o 13	25 ^o 57	17 ^o 9
S 21	0 0 54	28 ^o 18'59	7 ^m 12	14 ^o 21	25 ^o 51	10 ^o 33	19 ^o 58	2 ^o 38	14 ^o 8	4 ^o 25	22 ^o 13	3 ^o 0	4 ^o 10	26 ^o 4	17 ^o 7
S 22	0 4 50	29 ^o 17'52	20 ^o 34	13 ^o 46	27 ^o 4	11 ^o 11	20 ^o 9	2 ^o 45	14 ^o 6	4 ^o 23	22 ^o 14	2 ^o 57	4 ^o 7	26 ^o 11	17 ^o 5
M 23	0 8 47	0 ^{ss} 16'46	4 ^h 7	13 ^o 5	28 ^o 16	11 ^o 50	20 ^o 19	2 ^o 53	14 ^o 5	4 ^o 22	22 ^o 15	2 ^o D56	4 ^o 3	26 ^o 17	17 ^o 3
T 24	0 12 44	1 ^o 15'43	17 ^o 50	12 ^o 17	29 ^o 29	12 ^o 28	20 ^o 30	3 ^o 0	14 ^o 3	4 ^o 20	22 ^o 16	2 ^o 57	4 ^o 0	26 ^o 24	17 ^o 2
W 25	0 16 40	2 ^o 14'41	1 ^h 35	11 ^o 22	0 ^m 42	13 ^o 6	20 ^o 41	3 ^o 8	14 ^o 2	4 ^o 19	22 ^o 16	2 ^o R57	3 ^o 57	26 ^o 31	17 ^o 0
T 26	0 20 37	3 ^o 13'41	15 ^o 53	10 ^o 22	1 ^o 54	13 ^o 44	20 ^o 52	3 ^o 15	14 ^o 0	4 ^o 18	22 ^o 17	2 ^o 57	3 ^o 54	26 ^o 37	16 ^o 58
F 27	0 24 33	4 ^o 12'42	0 ^{ss} 12	9 ^o 17	3 ^o 7	14 ^o 22	21 ^o 3	3 ^o 22	13 ^o 58	4 ^o 16	22 ^o 18	2 ^o 54	3 ^o 51	26 ^o 44	16 ^o 55
S 28	0 28 30	5 ^o 11'46	14 ^o 39	8 ^o 9	4 ^o 20	15 ^o 0	21 ^o 14	3 ^o 30	13 ^o 56	4 ^o 15	22 ^o 18	2 ^o 49	3 ^o 48	26 ^o 51	16 ^o 53
S 29	0 32 26	6 ^o 10'51	29 ^o 9	7 ^o 0	5 ^o 33	15 ^o 38	21 ^o 25	3 ^o 37	13 ^o 55	4 ^o 13	22 ^o 19	2 ^o 42	3 ^o 44	26 ^o 58	16 ^o 51
M 30	0 36 23	7 ^{ss} 9'58	13 ^h 39	5 ^{ss} 51	6 ^m 46	16 ^m 16	21 ^m 36	3 ^{ss} 45	13 ^h 53	4 ^h 12	22 ^{ss} 20	2 ^{II} 33	3 ^{II} 41	27 ^{ss} 4	16 ^h 49

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	8n17	19s28	4s50	4s9	2s6	19n27	0s19	13n20	1n10	16s7	0n49	1n54	2n10	15n50	0s24	10s30	0s50	23n7	1n27	21n14	21n13	25n11	15n1	2s10
M 2	7 55	14 27	5 0	4 42	2 15	19 14	0 15	13 7	1 10	16 9	0 48	1 51	2 10	15 50	0 24	10 30	0 50	23 7	1 27	21 12	21 12	25 10	15 0	2 10
T 3	7 33	8 38	4 51	5 14	2 24	19 1	0 12	12 53	1 10	16 12	0 48	1 48	2 10	15 49	0 24	10 31	0 50	23 7	1 27	21 10	21 11	25 10	15 0	2 10
W 4	7 11	2 29	4 23	5 44	2 32	18 47	0 8	12 40	1 10	16 15	0 48	1 45	2 10	15 49	0 24	10 32	0 50	23 7	1 27	21 8	21 11	25 9	14 59	2 11
T 5	6 48	3n38	3 40	6 14	2 41	18 33	0 5	12 27	1 10	16 17	0 48	1 42	2 9	15 49	0 24	10 32	0 50	23 7	1 27	21 6	21 10	25 8	14 59	2 11
F 6	6 26	9 24	2 45	6 42	2 49	18 18	0 1	12 13	1 10	16 20	0 48	1 40	2 9	15 49	0 24	10 33	0 50	23 7	1 27	21 5	21 10	25 8	14 58	2 11
S 7	6 4	14 34	1 44	7 8	2 57	18 3	0n2	11 59	1 10	16 23	0 47	1 37	2 9	15 48	0 24	10 33	0 50	23 7	1 27	21 5	21 9	25 7	14 58	2 11
S 8	5 41	18 56	0 39	7 33	3 5	17 47	0 5	11 46	1 10	16 25	0 47	1 34	2 9	15 48	0 24	10 34	0 50	23 7	1 27	21 4	21 9	25 6	14 57	2 11
M 9	5 18	22 21	0n27	7 56	3 12	17 31	0 8	11 32	1 10	16 28	0 47	1 31	2 9	15 48	0 24	10 35	0 50	23 7	1 27	21 4	21 8	25 6	14 57	2 12
T 10	4 55	24 42	1 29	8 18	3 19	17 14	0 12	11 18	1 10	16 31	0 47	1 28	2 9	15 48	0 24	10 35	0 50	23 7	1 27	21 4	21 7	25 5	14 56	2 12
W 11	4 33	25 53	2 27	8 37	3 26	16 56	0 15	11 4	1 10	16 34	0 47	1 25	2 9	15 47	0 24	10 36	0 50	23 7	1 28	21 4	21 7	25 4	14 56	2 12
T 12	4 10	25 53	3 19	8 54	3 32	16 38	0 18	10 50	1 10	16 36	0 47	1 22	2 9	15 47	0 24	10 36	0 50	23 6	1 28	21 4	21 6	25 4	14 55	2 12
F 13	3 47	24 42	4 1	9 8	3 37	16 20	0 21	10 36	1 10	16 39	0 46	1 19	2 9	15 47	0 24	10 37	0 50	23 6	1 28	21 3	21 6	25 3	14 55	2 13
S 14	3 23	22 25	4 33	9 20	3 42	16 1	0 24	10 22	1 10	16 42	0 46	1 16	2 9	15 46	0 24	10 38	0 50	23 6	1 28	21 1	21 5	25 2	14 54	2 13
S 15	3 0	19 8	4 54	9 29	3 46	15 42	0 27	10 8	1 10	16 45	0 46	1 13	2 9	15 46	0 24	10 38	0 50	23 6	1 28	20 59	21 4	25 2	14 54	2 13
M 16	2 37	15 0	5 1	9 35	3 49	15 22	0 30	9 54	1 10	16 48	0 46	1 10	2 9	15 45	0 24	10 39	0 50	23 6	1 28	20 57	21 4	25 1	14 53	2 13
T 17	2 14	10 11	4 55	9 38	3 52	15 2	0 33	9 39	1 10	16 51	0 46	1 7	2 9	15 45	0 24	10 39	0 50	23 6	1 28	20 55	21 3	25 0	14 52	2 13
W 18	1 50	4 53	4 34	9 37	3 53	14 41	0 36	9 25	1 10	16 54	0 45	1 5	2 9	15 45	0 24	10 40	0 50	23 6	1 28	20 52	21 3	24 59	14 52	2 14
T 19	1 27	0s43	3 59	9 32	3 53	14 20	0 39	9 11	1 10	16 57	0 45	1 2	2 9	15 44	0 24	10 40	0 50	23 6	1 28	20 50	21 2	24 59	14 51	2 14
F 20	1 4	6 22																						

SWISS EPHEMERIS for the year 1686

OCTOBER 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
T 1	0 40 19	8♁ 9'06	28♃ 0	4°R44	7♁59	16♁54	21♁47	3♁52	13°R51	4°R11	22♁20	2°R24	3♁38	27♁11	16°R47
W 2	0 44 16	9° 8'17	12♃ 7	3♁41	9°12	17°33	21°59	3°59	13♁49	4♁ 9	22°21	2♁16	3°35	27°18	16♁44
T 3	0 48 13	10° 7'30	25°55	2°44	10°26	18°11	22°10	4° 7	13°47	4° 8	22°21	2° 9	3°32	27°24	16°42
F 4	0 52 9	11° 6'45	9♁20	1°55	11°39	18°49	22°22	4°14	13°45	4° 7	22°22	2° 5	3°28	27°31	16°40
S 5	0 56 6	12° 6'02	22°22	1°14	12°52	19°27	22°33	4°21	13°43	4° 6	22°22	2° 2	3°25	27°38	16°37
S 6	1 0 2	13° 5'22	5♁ 3	0°43	14° 6	20° 5	22°45	4°29	13°41	4° 5	22°23	2°D 2	3°22	27°44	16°35
M 7	1 3 59	14° 4'44	17°24	0°23	15°19	20°43	22°56	4°36	13°39	4° 3	22°23	2° 3	3°19	27°51	16°32
T 8	1 7 55	15° 4'08	29°31	0°D14	16°33	21°21	23° 8	4°44	13°37	4° 2	22°23	2° 4	3°16	27°58	16°30
W 9	1 11 52	16° 3'34	11♁27	0°15	17°47	21°59	23°20	4°51	13°35	4° 1	22°24	2°R 5	3°13	28° 5	16°27
T 10	1 15 48	17° 3'03	23°18	0°27	19° 0	22°38	23°32	4°58	13°33	4° 0	22°24	2° 5	3° 9	28°11	16°25
F 11	1 19 45	18° 2'34	5♁10	0°50	20°14	23°16	23°44	5° 5	13°31	3°59	22°24	2° 3	3° 6	28°18	16°22
S 12	1 23 42	19° 2'08	17° 6	1°22	21°28	23°54	23°56	5°13	13°28	3°58	22°25	1°59	3° 3	28°25	16°19
S 13	1 27 38	20° 1'43	29°11	2° 4	22°42	24°32	24° 8	5°20	13°26	3°57	22°25	1°54	3° 0	28°31	16°16
M14	1 31 35	21° 1'21	11♁30	2°54	23°56	25°10	24°20	5°27	13°24	3°56	22°25	1°47	2°57	28°38	16°14
T 15	1 35 31	22° 1'01	24° 3	3°51	25°10	25°48	24°32	5°34	13°22	3°55	22°26	1°40	2°54	28°45	16°11
W16	1 39 28	23° 0'43	6♁52	4°56	26°24	26°26	24°45	5°42	13°19	3°54	22°26	1°33	2°50	28°51	16° 8
T 17	1 43 24	24° 0'28	19°58	6° 6	27°38	27° 5	24°57	5°49	13°17	3°53	22°26	1°27	2°47	28°58	16° 5
F 18	1 47 21	25° 0'14	3♁19	7°21	28°52	27°43	25° 9	5°56	13°15	3°52	22°26	1°22	2°44	29° 5	16° 2
S 19	1 51 17	26° 0'02	16°54	8°40	0♁ 6	28°21	25°22	6° 3	13°12	3°51	22°26	1°20	2°41	29°11	15°59
S 20	1 55 14	26°59'52	0♁40	10° 4	1°21	28°59	25°34	6°10	13°10	3°50	22°26	1°D19	2°38	29°18	15°56
M21	1 59 11	27°59'45	14°35	11°30	2°35	29°37	25°47	6°17	13° 8	3°50	22°26	1°19	2°34	29°25	15°53
T 22	2 3 7	28°59'38	28°37	12°59	3°49	0♁15	26° 0	6°24	13° 5	3°49	22°26	1°21	2°31	29°32	15°50
W23	2 7 4	29°59'34	12♁43	14°31	5° 4	0°54	26°12	6°31	13° 3	3°48	22°R26	1°22	2°28	29°38	15°47
T 24	2 11 0	0♁59'31	26°52	16° 4	6°18	1°32	26°25	6°38	13° 1	3°47	22°26	1°R23	2°25	29°45	15°44
F 25	2 14 57	1°59'30	11♁ 3	17°38	7°32	2°10	26°38	6°45	12°58	3°47	22°26	1°23	2°22	29°52	15°41
S 26	2 18 53	2°59'30	25°13	19°14	8°47	2°48	26°50	6°52	12°56	3°46	22°26	1°21	2°19	29°58	15°38
S 27	2 22 50	3°59'32	9♁20	20°50	10° 1	3°26	27° 3	6°59	12°53	3°45	22°26	1°18	2°15	0♁ 5	15°35
M28	2 26 46	4°59'36	23°21	22°27	11°16	4° 4	27°16	7° 6	12°51	3°45	22°26	1°15	2°12	0°12	15°32
T 29	2 30 43	5°59'41	7♁14	24° 5	12°31	4°43	27°29	7°13	12°48	3°44	22°26	1°11	2° 9	0°19	15°29
W30	2 34 40	6°59'47	20°54	25°43	13°45	5°21	27°42	7°20	12°46	3°44	22°26	1° 7	2° 6	0°25	15°26
T 31	2 38 36	7♁59'56	4♁19	27♁21	15♁ 0	5♁59	27♁55	7♁26	12♁43	3♁43	22♁26	1♁ 4	2♁ 3	0♁32	15♁23

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅											
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat							
T 1	3s14	5s 0	4s36	3s28	1s44	9n38	1n 8	6n14	1n 9	17s33	0n43	0n27	2n10	15n38	0s24	10s46	0s50	23n 6	1n30	20n41	20n55	24n49	14n42	2s16
W 2	3 38	1n11	3 55	2 45	1 24	9 13	1 10	5 59	1 9	17 36	0 43	0 24	2 10	15 38	0 24	10 47	0 50	23 6	1 30	20 39	20 54	24 48	14 41	2 17
T 3	4 1	7 12	3 1	2 3	1 3	8 47	1 12	5 44	1 9	17 39	0 43	0 21	2 10	15 37	0 24	10 47	0 50	23 6	1 30	20 38	20 54	24 48	14 40	2 17
F 4	4 24	12 45	1 59	1 25	0 43	8 20	1 14	5 29	1 9	17 42	0 43	0 18	2 10	15 36	0 24	10 48	0 50	23 6	1 30	20 37	20 53	24 47	14 39	2 17
S 5	4 47	17 34	0 52	0 50	0 23	7 54	1 16	5 14	1 9	17 45	0 43	0 15	2 10	15 36	0 24	10 48	0 50	23 6	1 30	20 36	20 53	24 46	14 39	2 17
S 6	5 11	21 27	0n16	0 20	0 3	7 27	1 17	4 59	1 9	17 48	0 43	0 12	2 10	15 35	0 24	10 49	0 50	23 6	1 30	20 36	20 52	24 45	14 38	2 17
M 7	5 34	24 15	1 22	0n 5	0n15	7 0	1 19	4 44	1 9	17 51	0 42	0 9	2 10	15 35	0 24	10 49	0 50	23 6	1 30	20 36	20 51	24 44	14 37	2 17
T 8	5 57	25 52	2 23	0 24	0 32	6 33	1 21	4 29	1 9	17 54	0 42	0 6	2 10	15 34	0 24	10 50	0 50	23 6	1 30	20 37	20 51	24 43	14 36	2 18
W 9	6 20	26 15	3 17	0 38	0 48	6 6	1 22	4 14	1 9	17 58	0 42	0 4	2 10	15 33	0 24	10 50	0 50	23 6	1 30	20 37	20 50	24 42	14 35	2 18
T 10	6 43	25 26	4 2	0 46	1 2	5 38	1 23	3 59	1 8	18 1	0 42	0 1	2 10	15 33	0 24	10 50	0 50	23 6	1 30	20 37	20 49	24 42	14 34	2 18
F 11	7 5	23 28	4 36	0 49	1 15	5 10	1 25	3 44	1 8	18 4	0 42	0s 2	2 10	15 32	0 24	10 51	0 50	23 6	1 31	20 37	20 49	24 41	14 33	2 18
S 12	7 28	20 29	4 59	0 46	1 26	4 42	1 26	3 28	1 8	18 7	0 42	0 5	2 10	15 31	0 24	10 51	0 50	23 6	1 31	20 36	20 48	24 40	14 32	2 18
S 13	7 51	16 35	5 9	0 38	1 36	4 14	1 27	3 13	1 8	18 10	0 42	0 8	2 10	15 31	0 24	10 51	0 50	23 6	1 31	20 35	20 48	24 39	14 31	2 19
M14	8 13	11 57	5 5	0 26	1 44	3 46	1 28	2 58	1 8	18 13	0 41	0 11	2 10	15 30	0 24	10 52	0 50	23 6	1 31	20 33	20 47	24 38	14 30	2 19
T 15	8 35	6 45	4 46	0 9	1 50	3 48	1 30	2 43	1 8	18 16	0 41	0 13	2 10	15 29	0 24	10 52	0 50	23 6	1 31	20 32	20 46	24 37	14 29	2 19
W16	8 58	1 8	4 13	0s11	1 56	2 19	1 31	2 27	1 8	18 19	0 41	0 16	2 11	15 29	0 24	10 52	0 50	23 7	1 31	20 30	20 46	24 36	14 28	2 19
T 17	9 20	4s39	3 26	0 36	2 0	2 20	1 31	2 12	1 8	18 22	0 41	0 19	2 11	15 28	0 24	10 53	0 50	23 7	1 31	20 29	20 45	24 35	14 27	2 19
F 18	9 42	10 21	2 26	1 3	2 2	1 52	1 32	1 57	1 8	18 26	0 41	0 22	2 11	15 27	0 24	10 53	0 50	23 7	1 31	20 28	20 45	24 34	14 27	2 19
S 19	10 4	15 40	1 18	1 32	2 4	1 23	1 33	1 41	1 8	18 29	0 41	0 24	2 11	15 27	0 24	10 53	0 50	23 7	1 31	20 28	20 44	24 33	14 26	2 20
S 20	10 25	20 16	0 4	2 5	2 5	0 54	1 34	1 26	1 7	18 32	0 41	0 27	2 11	15 26	0 24	10 54	0 50	23 7	1 32	20 28	20 43	24 32	14 25	2 20
M21	10 47	23 47	1s12	2 39	2 5	0 25	1 34	1 11	1 7	18 35	0 41	0 30	2 11	15 25	0 24	10 54	0 50	23 7	1 32	20 28	20 43	24 31	14 24	2 20
T 22	11 8	25 52	2 24	3 14	2 4	0s 4	1 35	0 55	1 7	18 38	0 40	0 32	2 11	15 25	0 24	10 54	0 50	23 7	1 32	20 28	20 42	24 30	14 23	2 20
W23	11 29	26 19	3 27	3 51	2 2	0 33	1 35	0 40	1 7	18 41	0 40	0 35	2 11	15 24	0 24	10 55	0 50	23 7	1 32	20 28	20 41	24 29	14 22	2 20
T 24	11 50	25 2	4 18	4 29	1 59	1 2	1 36	0 25	1 7	18 44	0 40	0 38	2 11	15 23	0 24	10 55	0 50	23 7	1 32	20 28	20 41	24 28	14 21	2 20
F 25	12 11	22 11	4 54	5 8	1 56	1 32	1 36	0 9	1 7	18 47	0 40	0 40	2 12	15 22	0 24	10 55	0 50	23 7	1 32	20 28	20 40	24 27	14 20	2 20
S 26	12 32	18 1	5 11	5 48	1 53	2 1	1 36	0s 6	1 7	18 50	0 40	0 43	2 12	15 22	0 24	10 55	0 50	23 7	1 32	20 28	20 40	24 26	14 18	2 21
S 27	12 52	12 52	5 10	6 28	1 49	2 30	1 36	0 21	1 6	18 53	0 40	0 46	2 12	15 21	0 24	10 55	0 50	23 8	1 32	20 27	20 39	24 25	14 17	2 21
M28	13 13	7 5	4 50	7 9	1 44	2 59	1 37	0 36	1 6	18 56	0 40	0 48	2 12	15 20	0 24	10 56	0 50	23 8	1 32	20 27	20 38	24 24	14 16	2 21
T 29	13 33	1 1	4 14	7 49	1 39	3 28	1 37	0 52	1 6	18 59	0 40	0 51	2 12	15 19	0 24	10 56	0 50							

SWISS EPHEMERIS for the year 1686

NOVEMBER 1686 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	2 42 33	9♍ 0'06	17♄ 28	28♄ 59	16♁ 15	6♁ 37	28♍ 8	7♁ 33	12°R41	3°R43	22°R25	1°R 2	1♐ 59	0♈ 39	15°R19
S 2	2 46 29	10° 0'19	0♐ 19	0♍ 38	17° 29	7° 15	28° 21	7° 40	12♄ 38	3♁ 42	22♄ 25	1°D 2	1° 56	0° 45	15♄ 16
S 3	2 50 26	11° 0'33	12° 53	2° 16	18° 44	7° 53	28° 34	7° 46	12° 36	3° 42	22° 25	1♐ 2	1° 53	0° 52	15° 13
M 4	2 54 22	12° 0'49	25° 12	3° 54	19° 59	8° 32	28° 47	7° 53	12° 33	3° 41	22° 25	1° 3	1° 50	0° 59	15° 10
T 5	2 58 19	13° 1'07	7♄ 18	5° 32	21° 14	9° 10	29° 0	8° 0	12° 31	3° 41	22° 24	1° 5	1° 47	1° 5	15° 7
W 6	3 2 15	14° 1'27	19° 15	7° 9	22° 29	9° 48	29° 13	8° 6	12° 28	3° 41	22° 24	1° 7	1° 44	1° 12	15° 3
T 7	3 6 12	15° 1'49	1♁ 7	8° 47	23° 43	10° 26	29° 26	8° 12	12° 26	3° 41	22° 24	1° 8	1° 40	1° 19	15° 0
F 8	3 10 9	16° 2'13	12° 59	10° 24	24° 58	11° 4	29° 40	8° 19	12° 23	3° 40	22° 23	1° 8	1° 37	1° 26	14° 57
S 9	3 14 5	17° 2'39	24° 55	12° 1	26° 13	11° 43	29° 53	8° 25	12° 21	3° 40	22° 23	1° 8	1° 34	1° 32	14° 54
S 10	3 18 2	18° 3'06	7♍ 0	13° 38	27° 28	12° 21	0♁ 6	8° 32	12° 18	3° 40	22° 22	1° 7	1° 31	1° 39	14° 51
M 11	3 21 58	19° 3'36	19° 19	15° 14	28° 43	12° 59	0° 19	8° 38	12° 16	3° 40	22° 22	1° 6	1° 28	1° 46	14° 47
T 12	3 25 55	20° 4'07	1♁ 55	16° 50	29° 58	13° 37	0° 33	8° 44	12° 14	3° 40	22° 21	1° 5	1° 25	1° 52	14° 44
W 13	3 29 51	21° 4'40	14° 52	18° 26	1♍ 13	14° 16	0° 46	8° 50	12° 11	3° 40	22° 21	1° 3	1° 21	1° 59	14° 41
T 14	3 33 48	22° 5'15	28° 9	20° 2	2° 29	14° 54	0° 59	8° 56	12° 9	3° 40	22° 20	1° 2	1° 18	2° 6	14° 38
F 15	3 37 44	23° 5'52	11♍ 48	21° 37	3° 44	15° 32	1° 13	9° 2	12° 6	3° 40	22° 20	1° 1	1° 15	2° 12	14° 35
S 16	3 41 41	24° 6'30	25° 46	23° 12	4° 59	16° 10	1° 26	9° 8	12° 4	3° 40	22° 19	1° 1	1° 12	2° 19	14° 32
S 17	3 45 38	25° 7'09	9♁ 59	24° 47	6° 14	16° 48	1° 40	9° 14	12° 1	3° 40	22° 19	1° 1	1° 9	2° 26	14° 28
M 18	3 49 34	26° 7'50	24° 23	26° 22	7° 29	17° 27	1° 53	9° 20	11° 59	3° 40	22° 18	1° 1	1° 5	2° 33	14° 25
T 19	3 53 31	27° 8'33	8♄ 52	27° 57	8° 44	18° 5	2° 6	9° 26	11° 57	3° 40	22° 17	1° 1	1° 2	2° 39	14° 22
W 20	3 57 27	28° 9'16	23° 22	29° 31	10° 0	18° 43	2° 20	9° 32	11° 54	3° 40	22° 17	1° 2	0° 59	2° 46	14° 19
T 21	4 1 24	29° 10'01	7♁ 47	1♁ 6	11° 15	19° 21	2° 33	9° 37	11° 52	3° 40	22° 16	1° 2	0° 56	2° 53	14° 16
F 22	4 5 20	0♁ 10'46	22° 3	2° 40	12° 30	20° 0	2° 47	9° 43	11° 49	3° 41	22° 15	1° 2	0° 53	2° 59	14° 13
S 23	4 9 17	1° 11'33	6♁ 9	4° 14	13° 45	20° 38	3° 0	9° 48	11° 47	3° 41	22° 15	1° 2	0° 50	3° 6	14° 10
S 24	4 13 13	2° 12'20	20° 2	5° 48	15° 0	21° 16	3° 14	9° 54	11° 45	3° 41	22° 14	1° 2	0° 46	3° 13	14° 7
M 25	4 17 10	3° 13'08	3♁ 42	7° 22	16° 16	21° 54	3° 27	9° 59	11° 43	3° 41	22° 13	1° 2	0° 43	3° 20	14° 4
T 26	4 21 7	4° 13'57	17° 8	8° 56	17° 31	22° 33	3° 41	10° 5	11° 40	3° 42	22° 12	1° 2	0° 40	3° 26	14° 1
W 27	4 25 3	5° 14'47	0♁ 21	10° 29	18° 46	23° 11	3° 54	10° 10	11° 38	3° 42	22° 11	1° 3	0° 37	3° 33	13° 58
T 28	4 29 0	6° 15'39	13° 21	12° 3	20° 2	23° 49	4° 7	10° 15	11° 36	3° 43	22° 11	1° 3	0° 34	3° 40	13° 55
F 29	4 32 56	7° 16'31	26° 8	13° 37	21° 17	24° 27	4° 21	10° 20	11° 34	3° 43	22° 10	1° 4	0° 31	3° 46	13° 52
S 30	4 36 53	8° 17'24	8♁ 42	15° 10	22° 32	25° 5	4° 34	10° 25	11° 32	3° 44	22° 9	1♐ 4	0♐ 27	3° 53	13° 49

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	14s31	15n53	1s14	9s50	1n23	4s55	1n36	1s38	1n 6	19s 8	0n39	0s58	2n12	15n17	0s24
S 2	14 50	20 11	0 4	10 30	1 17	5 24	1 36	1 53	1 6	19 11	0 39	1 1	2 13	15 16	0 24
S 3	15 9	23 27	1n 5	11 10	1 11	5 53	1 36	2 8	1 5	19 14	0 39	1 3	2 13	15 16	0 24
M 4	15 28	25 33	2 9	11 50	1 5	6 21	1 35	2 23	1 5	19 17	0 39	1 6	2 13	15 15	0 24
T 5	15 46	26 24	3 7	12 28	0 58	6 50	1 35	2 39	1 5	19 20	0 39	1 8	2 13	15 14	0 24
W 6	16 5	25 59	3 56	13 7	0 52	7 18	1 34	2 54	1 5	19 23	0 39	1 11	2 13	15 13	0 24
T 7	16 22	24 24	4 34	13 44	0 45	7 47	1 33	3 9	1 5	19 26	0 39	1 13	2 13	15 13	0 24
F 8	16 40	21 45	5 1	14 21	0 38	8 15	1 33	3 24	1 5	19 29	0 39	1 16	2 13	15 12	0 24
S 9	16 57	18 10	5 14	14 58	0 32	8 43	1 32	3 39	1 4	19 32	0 39	1 18	2 14	15 11	0 24
S 10	17 14	13 49	5 15	15 34	0 25	9 11	1 31	3 54	1 4	19 35	0 38	1 20	2 14	15 10	0 24
M 11	17 31	8 50	5 1	16 9	0 18	9 38	1 30	4 9	1 4	19 38	0 38	1 23	2 14	15 10	0 24
T 12	17 47	3 23	4 32	16 43	0 11	10 5	1 29	4 24	1 4	19 41	0 38	1 25	2 14	15 9	0 24
W 13	18 4	2s21	3 49	17 16	0 5	10 33	1 28	4 39	1 4	19 44	0 38	1 27	2 14	15 8	0 24
T 14	18 19	8 9	2 52	17 49	0s 2	10 59	1 27	4 54	1 3	19 46	0 38	1 29	2 14	15 7	0 24
F 15	18 35	13 45	1 45	18 21	0 9	11 26	1 26	5 9	1 3	19 49	0 38	1 32	2 15	15 7	0 24
S 16	18 50	18 46	0 29	18 51	0 16	11 52	1 25	5 24	1 3	19 52	0 38	1 34	2 15	15 6	0 24
S 17	19 5	22 48	0s50	19 21	0 22	12 19	1 23	5 39	1 3	19 55	0 38	1 36	2 15	15 5	0 24
M 18	19 19	25 28	2 6	19 50	0 29	12 44	1 22	5 54	1 3	19 58	0 38	1 38	2 15	15 5	0 24
T 19	19 33	26 26	3 15	20 18	0 35	13 10	1 21	6 9	1 2	20 0	0 38	1 40	2 15	15 4	0 24
W 20	19 47	25 35	4 11	20 45	0 41	13 35	1 19	6 23	1 2	20 3	0 38	1 42	2 16	15 3	0 24
T 21	20 0	23 3	4 52	21 11	0 48	14 0	1 18	6 38	1 2	20 6	0 37	1 44	2 16	15 2	0 24
F 22	20 13	19 7	5 13	21 36	0 54	14 24	1 16	6 53	1 2	20 8	0 37	1 46	2 16	15 2	0 24
S 23	20 26	14 10	5 16	22 0	1 0	14 48	1 15	7 7	1 1	20 11	0 37	1 48	2 16	15 1	0 24
S 24	20 38	8 33	5 0	22 23	1 6	15 12	1 13	7 22	1 1	20 14	0 37	1 50	2 16	15 0	0 24
M 25	20 50	2 37	4 27	22 45	1 11	15 36	1 11	7 36	1 1	20 16	0 37	1 52	2 17	15 0	0 24
T 26	21 2	3n21	3 40	23 5	1 17	15 59	1 9	7 51	1 1	20 19	0 37	1 54	2 17	14 59	0 24
W 27	21 13	9 5	2 42	23 25	1 22	16 21	1 8	8 5	1 0	20 22	0 37	1 56	2 17	14 58	0 24
T 28	21 23	14 20	1 37	23 43	1 27	16 43	1 6	8 20	1 0	20 24	0 37	1 58	2 17	14 58	0 24
F 29	21 34	18 53	0 27	24 0	1 32	17 5	1 4	8 34	1 0	20 27	0 37	2 0	2 17	14 57	0 24
S 30	21s44	22n29	0n42	24s16	1s37	17s26	1n 2	8s48	1n 0	20s29	0n37	2s 1	2n18	14n56	0s24

Julian Day Number = 2337163.5, Delta T = 9.84 sec
 Ecliptic obliquity = 23°28'53", Nutation = - 0°00'17"
 Ayanamsha: Fagan/Bradley = 20°22'08", Lahiri = 19°29'08"Greg. Calendar

