

SWISS EPHEMERIS for the year 1670

JANUARY 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	6 43 31	11° 0'14"	9° 5'	22° 2'	24° 10'	6° 8'	10° R24	22° 25'	3° 23'	27° 51'	0° R40	28° R34	27° Y33	5° 56'	5° 32'
T 2	6 47 27	12° 1'24"	22° 22'	23° 26'	25° 21'	6° 44'	10° 16'	22° 31'	3° 25'	27° 53'	0° 39'	28° Y31	27° 30'	6° 3'	5° 35'
F 3	6 51 24	13° 2'33"	5° 22'	24° 52'	26° 31'	7° 19'	10° 8'	22° 37'	3° 28'	27° 55'	0° 37'	28° 26'	27° 27'	6° 10'	5° 38'
S 4	6 55 21	14° 3'42"	18° 24'	26° 18'	27° 40'	7° 55'	10° 0'	22° 44'	3° 30'	27° 58'	0° 36'	28° 18'	27° 24'	6° 17'	5° 40'
S 5	6 59 17	15° 4'50"	1° 9'	27° 44'	28° 50'	8° 31'	9° 52'	22° 50'	3° 33'	28° 0'	0° 35'	28° 7'	27° 21'	6° 23'	5° 43'
M 6	7 3 14	16° 5'58"	13° 43'	29° 12'	29° 59'	9° 6'	9° 44'	22° 56'	3° 36'	28° 2'	0° 34'	27° 54'	27° 17'	6° 30'	5° 46'
T 7	7 7 10	17° 7'06"	26° 7'	0° 340'	1° 9'	9° 42'	9° 36'	23° 2'	3° 38'	28° 4'	0° 33'	27° 40'	27° 14'	6° 37'	5° 49'
W 8	7 11 7	18° 8'14"	8° 20'	2° 9'	2° 18'	10° 17'	9° 28'	23° 9'	3° 41'	28° 7'	0° 32'	27° 26'	27° 11'	6° 43'	5° 52'
T 9	7 15 3	19° 9'21"	20° 23'	3° 38'	3° 28'	10° 53'	9° 20'	23° 15'	3° 43'	28° 9'	0° 30'	27° 13'	27° 8'	6° 50'	5° 54'
F 10	7 19 0	20° 10'27"	2° 19'	5° 8'	4° 37'	11° 28'	9° 12'	23° 22'	3° 46'	28° 11'	0° 29'	27° 2'	27° 5'	6° 57'	5° 57'
S 11	7 22 57	21° 11'34"	14° 9'	6° 38'	5° 45'	12° 4'	9° 4'	23° 28'	3° 49'	28° 13'	0° 28'	26° 54'	27° 2'	7° 3'	6° 0'
S 12	7 26 53	22° 12'40"	25° 57'	8° 9'	6° 54'	12° 39'	8° 57'	23° 35'	3° 52'	28° 16'	0° 27'	26° 50'	26° 58'	7° 10'	6° 3'
M13	7 30 50	23° 13'45"	7° 48'	9° 41'	8° 2'	13° 14'	8° 49'	23° 41'	3° 54'	28° 18'	0° 26'	26° 47'	26° 55'	7° 17'	6° 7'
T 14	7 34 46	24° 14'51"	19° 47'	11° 13'	9° 11'	13° 49'	8° 41'	23° 48'	3° 57'	28° 20'	0° 25'	26° 47'	26° 52'	7° 23'	6° 10'
W15	7 38 43	25° 15'56"	1° 58'	12° 45'	10° 19'	14° 25'	8° 34'	23° 55'	4° 0'	28° 23'	0° 24'	26° 47'	26° 49'	7° 30'	6° 13'
T 16	7 42 39	26° 17'00"	14° 28'	14° 19'	11° 27'	15° 0'	8° 27'	24° 1'	4° 3'	28° 25'	0° 23'	26° 46'	26° 46'	7° 37'	6° 16'
F 17	7 46 36	27° 18'05"	27° 22'	15° 53'	12° 34'	15° 35'	8° 19'	24° 8'	4° 6'	28° 27'	0° 22'	26° 43'	26° 43'	7° 44'	6° 19'
S 18	7 50 32	28° 19'08"	10° 43'	17° 27'	13° 42'	16° 10'	8° 12'	24° 15'	4° 9'	28° 29'	0° 20'	26° 39'	26° 39'	7° 50'	6° 22'
S 19	7 54 29	29° 20'12"	24° 33'	19° 2'	14° 49'	16° 45'	8° 5'	24° 22'	4° 12'	28° 32'	0° 19'	26° 31'	26° 36'	7° 57'	6° 26'
M20	7 58 26	0° 21'14"	8° 52'	20° 38'	15° 56'	17° 20'	7° 58'	24° 28'	4° 15'	28° 34'	0° 18'	26° 21'	26° 33'	8° 4'	6° 29'
T 21	8 2 22	1° 22'16"	23° 35'	22° 14'	17° 3'	17° 55'	7° 51'	24° 35'	4° 18'	28° 36'	0° 17'	26° 9'	26° 30'	8° 10'	6° 32'
W22	8 6 19	2° 23'18"	8° 34'	23° 51'	18° 9'	18° 29'	7° 44'	24° 42'	4° 21'	28° 38'	0° 16'	25° 57'	26° 27'	8° 17'	6° 36'
T 23	8 10 15	3° 24'18"	23° 39'	25° 28'	19° 16'	19° 4'	7° 38'	24° 49'	4° 24'	28° 41'	0° 15'	25° 46'	26° 23'	8° 24'	6° 39'
F 24	8 14 12	4° 25'17"	8° 41'	27° 6'	20° 22'	19° 39'	7° 31'	24° 56'	4° 27'	28° 43'	0° 14'	25° 37'	26° 20'	8° 30'	6° 42'
S 25	8 18 8	5° 26'14"	23° 31'	28° 45'	21° 28'	20° 13'	7° 25'	25° 3'	4° 30'	28° 45'	0° 13'	25° 31'	26° 17'	8° 37'	6° 46'
S 26	8 22 5	6° 27'11"	8° 1'	0° 25'	22° 33'	20° 48'	7° 18'	25° 10'	4° 33'	28° 48'	0° 12'	25° 28'	26° 14'	8° 44'	6° 49'
M27	8 26 1	7° 28'06"	22° 11'	2° 5'	23° 39'	21° 22'	7° 12'	25° 17'	4° 36'	28° 50'	0° 11'	25° D27	26° 11'	8° 50'	6° 53'
T 28	8 29 58	8° 29'00"	5° 57'	3° 46'	24° 44'	21° 57'	7° 6'	25° 24'	4° 39'	28° 52'	0° 11'	25° R27	26° 8'	8° 57'	6° 56'
W29	8 33 55	9° 29'52"	19° 23'	5° 27'	25° 49'	22° 31'	7° 0'	25° 31'	4° 43'	28° 54'	0° 10'	25° 27'	26° 4'	9° 4'	7° 0'
T 30	8 37 51	10° 30'43"	2° 31'	7° 10'	26° 53'	23° 5'	6° 55'	25° 38'	4° 46'	28° 57'	0° 9'	25° 25'	26° 1'	9° 11'	7° 4'
F 31	8 41 48	11° 31'32"	15° 22'	8° 53'	27° 57'	23° 39'	6° 49'	25° 45'	4° 49'	28° 59'	0° 8'	25° Y21	25° Y58	9° 17'	7° 7'

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	23s 2	15n25	0n55	22s53	0n22	15s 2	1s38	12s29	1n10	23n10	0n 6	15s21	1s21	10s59	0s45	20s20	0n18	18n49	4s40	10n59	10n37	13n 6	4s46	5n 5
T 2	22 56	20 22	2 3	23 5	0 14	14 36	1 36	12 41	1 10	23 11	0 6	15 19	1 21	10 58	0 45	20 20	0 18	18 49	4 40	10 58	10 36	13 3	4 46	5 4
F 3	22 51	24 14	3 2	23 17	0 6	14 10	1 33	12 53	1 10	23 12	0 6	15 17	1 21	10 57	0 45	20 20	0 18	18 49	4 39	10 56	10 35	13 0	4 45	5 4
S 4	22 44	26 49	3 51	23 27	0s 1	13 43	1 31	13 5	1 10	23 13	0 6	15 15	1 21	10 56	0 45	20 19	0 18	18 50	4 39	10 53	10 34	12 57	4 44	5 4
S 5	22 38	27 57	4 28	23 37	0 9	13 16	1 28	13 16	1 9	23 13	0 6	15 12	1 21	10 55	0 45	20 19	0 18	18 50	4 39	10 50	10 33	12 54	4 43	5 4
M 6	22 31	27 36	4 51	23 45	0 16	12 49	1 25	13 28	1 9	23 14	0 7	15 10	1 21	10 54	0 45	20 18	0 18	18 50	4 39	10 45	10 32	12 51	4 43	5 3
T 7	22 23	25 52	5 0	23 52	0 23	12 21	1 22	13 40	1 9	23 15	0 7	15 8	1 21	10 53	0 45	20 18	0 18	18 50	4 39	10 40	10 31	12 48	4 42	5 3
W 8	22 15	22 57	4 54	23 58	0 30	11 54	1 18	13 51	1 8	23 16	0 7	15 6	1 21	10 52	0 44	20 17	0 18	18 50	4 39	10 35	10 29	12 45	4 41	5 3
T 9	22 7	19 5	4 36	24 3	0 37	11 25	1 15	14 2	1 8	23 16	0 7	15 4	1 21	10 51	0 44	20 17	0 18	18 50	4 39	10 30	10 28	12 42	4 40	5 3
F 10	21 58	14 29	4 6	24 7	0 44	10 57	1 12	14 14	1 8	23 17	0 7	15 2	1 21	10 50	0 44	20 17	0 18	18 50	4 39	10 26	10 27	12 39	4 39	5 2
S 11	21 49	9 24	3 25	24 9	0 50	10 28	1 8	14 25	1 8	23 18	0 7	15 0	1 21	10 49	0 44	20 16	0 18	18 50	4 39	10 23	10 26	12 36	4 39	5 2
S 12	21 39	3 59	2 35	24 10	0 56	10 0	1 5	14 36	1 7	23 18	0 7	14 58	1 21	10 48	0 44	20 16	0 18	18 50	4 39	10 22	10 25	12 33	4 38	5 2
M13	21 29	1s36	1 39	24 10	1 2	9 31	1 1	14 47	1 7	23 19	0 8	14 55	1 21	10 47	0 44	20 15	0 18	18 50	4 39	10 21	10 24	12 30	4 37	5 1
T 14	21 18	7 11	0 37	24 9	1 8	9 1	0 57	14 58	1 7	23 20	0 8	14 53	1 21	10 46	0 44	20 15	0 18	18 50	4 39	10 21	10 23	12 27	4 36	5 1
W15	21 7	12 37	0s27	24 6	1 14	8 32	0 53	15 8	1 6	23 20	0 8	14 51	1 21	10 45	0 44	20 14	0 18	18 51	4 38	10 21	10 21	12 24	4 35	5 1
T 16	20 56	17 41	1 32	24 2	1 19	8 2	0 49	15 19	1 6	23 21	0 8	14 49	1 21	10 44	0 44	20 14	0 18	18 51	4 38	10 20	10 20	12 20	4 34	5 1
F 17	20 44	22 6	2 34	23 56	1 24	7 33	0 45	15 29	1 6	23 21	0 8	14 46	1 21	10 43	0 44	20 13	0 18	18 51	4 38	10 19	10 19	12 17	4 33	5 1
S 18	20 32	25 33	3 30	23 49	1 29	7 3	0 41	15 40	1 5	23 22	0 8	14 44	1 21	10 42	0 44	20 13	0 18	18 51	4 38	10 18	10 18	12 14	4 32	5 0
S 19	20 20	27 37	4 15	23 41	1 34	6 33	0 36	15 50	1 5	23 23	0 8	14 42	1 21	10 41	0 44	20 13	0 18	18 51	4 38	10 15	10 17	12 11	4 31	5 0
M20	20 7	27 57	4 46	23 31	1 38	6 3	0 32	16 0	1 5	23 23	0 8	14 40	1 21	10 39	0 44	20 12	0 18	18 51	4 38	10 11	10 16	12 8	4 30	5 0
T 21	19 54	26 20	5 0	23 19	1 42	5 33	0 27	16 10	1 4	23 24	0 9	14 37	1 21	10 38	0 44	20 12	0 18	18 51	4 38	10 7	10 14	12 5	4 29	5 0
W22	19 40	22 52	4 53	23 7	1 46	5 2	0 23	16 20	1 4	23 24	0 9	14 35	1 21	10 37	0 44	20 11	0 17	18 51	4 38	10 2	10 13	12 2	4 28	4 59
T 23	19 26	17 50	4 26	22 53	1 49	4 32	0 18	16 30	1 3	23 25	0 9	14 33	1 21	10 36	0 44	20 11	0 17	18 51	4 38	9 58	10 12	11 59	4 27	4 59
F 24	19 11	11 44	3 40	22 37	1 52	4 1	0 13	16 40	1 3	23 25	0 9	14 30	1 21	10 35	0 44	20 10	0 17	18 52	4 37	9 55	10 11	11 56	4 26	4 59
S 25	18 57	5 2	2 40	22 20	1 55	3 31	0 8	16 50	1 3	23 26	0 9	14 28	1 21	10 34	0 44	20 10	0 17	18 52	4 37	9 53	10 10	11 53	4 25	4 59
S 26	18 42	1n48	1 31	22 1	1 58	3 0	0 3	16 59	1 2	23 26	0 9	14 26	1 21	10 33	0 44	20 9	0 17	18 52	4 37	9 52	10 9	11 50	4 24	4 59
M27	18 26	8 23	0 17	21 41	2 0	2 30	0n 2	17 9	1 2	23 27	0 9	14 23	1 21	10 31	0 44	20 9	0 17	18 52	4 37	9 52	10 8	11 47	4 23	4 58
T 28	18 11	14 24	0n55	21 19																				

SWISS EPHEMERIS for the year 1670

FEBRUARY 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	8 45 44	12 ³² 21	28 ^{II} 1	10 ³⁷ 37	29 [♁] 1	24 [♁] 14	6°R44	25 ³³ 53	4 ⁵² 52	29 [♁] 1	0°R 7	25°R13	25°Y55	9 [♁] 24	7 [♁] 11
S 2	8 49 41	13°33'07	10 ³⁸ 28	12°21	0 ^Y 5	24°48	6 ³⁹ 39	26° 0	4°55	29° 3	0 ³ 6	25°Y 3	25°52	9°31	7°14
M 3	8 53 37	14°33'52	22°47	14° 7	1° 8	25°21	6°34	26° 7	4°59	29° 5	0° 5	24°51	25°49	9°37	7°18
T 4	8 57 34	15°34'36	4 ³ 57	15°53	2°10	25°55	6°29	26°14	5° 2	29° 8	0° 5	24°38	25°45	9°44	7°22
W 5	9 1 30	16°35'19	17° 0	17°40	3°13	26°29	6°24	26°21	5° 5	29°10	0° 4	24°24	25°42	9°51	7°25
T 6	9 5 27	17°36'00	28°57	19°27	4°15	27° 3	6°20	26°29	5° 9	29°12	0° 3	24°12	25°39	9°57	7°29
F 7	9 9 24	18°36'39	10 ³⁹ 49	21°16	5°17	27°36	6°15	26°36	5°12	29°14	0° 2	24° 2	25°36	10° 4	7°33
S 8	9 13 20	19°37'17	22°37	23° 5	6°18	28°10	6°11	26°43	5°15	29°16	0° 1	23°55	25°33	10°11	7°37
S 9	9 17 17	20°37'54	4 ⁴⁰ 26	24°54	7°19	28°43	6° 7	26°50	5°19	29°19	0° 1	23°50	25°29	10°17	7°40
M10	9 21 13	21°38'30	16°17	26°44	8°19	29°17	6° 3	26°57	5°22	29°21	0° 0	23°48	25°26	10°24	7°44
T 11	9 25 10	22°39'04	28°16	28°35	9°19	29°50	6° 0	27° 5	5°25	29°23	29 ^{II} 59	23°D48	25°23	10°31	7°48
W12	9 29 6	23°39'38	10 ⁴⁰ 26	0 [♁] 26	10°19	0 [♁] 23	5°56	27°12	5°29	29°25	29°59	23°49	25°20	10°37	7°52
T 13	9 33 3	24°40'10	22°52	2°18	11°18	0°56	5°53	27°19	5°32	29°27	29°58	23°R49	25°17	10°44	7°56
F 14	9 36 59	25°40'40	5 ⁴ 40	4° 9	12°16	1°30	5°50	27°27	5°36	29°29	29°57	23°49	25°14	10°51	7°59
S 15	9 40 56	26°41'10	18°55	6° 0	13°14	2° 2	5°47	27°34	5°39	29°31	29°57	23°46	25°10	10°57	8° 3
S 16	9 44 53	27°41'38	2 ³ 39	7°52	14°12	2°35	5°44	27°41	5°42	29°33	29°56	23°42	25° 7	11° 4	8° 7
M17	9 48 49	28°42'05	16°52	9°42	15° 9	3° 8	5°42	27°48	5°46	29°35	29°56	23°35	25° 4	11°11	8°11
T 18	9 52 46	29°42'30	1 ³ 33	11°32	16° 6	3°41	5°40	27°56	5°49	29°37	29°55	23°27	25° 1	11°18	8°15
W19	9 56 42	0 [♁] 42'54	16°36	13°21	17° 2	4°13	5°37	28° 3	5°53	29°40	29°55	23°18	24°58	11°24	8°19
T 20	10 0 39	1°43'15	1 [♁] 51	15° 9	17°57	4°45	5°36	28°10	5°56	29°42	29°54	23°10	24°55	11°31	8°22
F 21	10 4 35	2°43'36	17° 8	16°54	18°52	5°18	5°34	28°17	6° 0	29°44	29°54	23° 4	24°51	11°38	8°26
S 22	10 8 32	3°43'54	2 ^Y 15	18°37	19°46	5°50	5°32	28°25	6° 3	29°45	29°53	23° 0	24°48	11°44	8°30
S 23	10 12 28	4°44'10	17° 4	20°18	20°39	6°22	5°31	28°32	6° 7	29°47	29°53	22°D58	24°45	11°51	8°34
M24	10 16 25	5°44'25	1 ³ 30	21°55	21°32	6°54	5°30	28°39	6°10	29°49	29°52	22°58	24°42	11°58	8°38
T 25	10 20 22	6°44'37	15°29	23°28	22°24	7°26	5°29	28°46	6°13	29°51	29°52	22°59	24°39	12° 4	8°42
W26	10 24 18	7°44'48	29° 3	24°56	23°15	7°57	5°28	28°54	6°17	29°53	29°52	23° 1	24°35	12°11	8°46
T 27	10 28 15	8°44'56	12 ^{II} 12	26°20	24° 6	8°29	5°28	29° 1	6°20	29°55	29°51	23°R 1	24°32	12°18	8°50
F 28	10 32 11	9 [♁] 45'02	25 ^{II} 1	27 [♁] 38	24 ^Y 56	9 [♁] 0	5 ²⁸ 28	29 ³ 8	6 [♁] 24	29 [♁] 57	29 ^{II} 51	23 ^Y 0	24 ^Y 29	12 [♁] 24	8 [♁] 54

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	17s 4	27n57	4n28	19s36	2s 5	0n 3	0n29	17s54	0n59	23n29	0n10	14s11	1s21	10s26	0s44	20s 7	0n17	18n53	4s36	9n47	10n 2	11n31	4s17	4n57
S 2	16 47	27 55	4 52	19 7	2 4	0 34	0 35	18 3	0 59	23 29	0 10	14 9	1 21	10 24	0 44	20 6	0 17	18 53	4 36	9 43	10 1	11 28	4 16	4 57
M 3	16 30	26 30	5 1	18 36	2 4	1 4	0 41	18 12	0 58	23 29	0 10	14 7	1 21	10 23	0 44	20 6	0 17	18 53	4 36	9 38	9 59	11 25	4 15	4 57
T 4	16 12	23 51	4 56	18 3	2 2	1 35	0 47	18 20	0 58	23 30	0 10	14 4	1 21	10 22	0 44	20 5	0 17	18 53	4 36	9 34	9 58	11 22	4 13	4 57
W 5	15 54	20 11	4 39	17 29	2 1	2 5	0 53	18 29	0 57	23 30	0 10	14 2	1 21	10 21	0 44	20 5	0 17	18 53	4 36	9 29	9 57	11 19	4 12	4 57
T 6	15 35	15 44	4 9	16 53	1 59	2 35	0 59	18 37	0 57	23 30	0 10	13 59	1 21	10 19	0 44	20 4	0 17	18 53	4 36	9 24	9 56	11 16	4 11	4 57
F 7	15 17	10 44	3 28	16 16	1 56	3 5	1 5	18 45	0 56	23 31	0 11	13 57	1 21	10 18	0 44	20 4	0 17	18 53	4 36	9 20	9 55	11 13	4 10	4 57
S 8	14 58	5 21	2 38	15 38	1 53	3 35	1 11	18 53	0 56	23 31	0 11	13 54	1 21	10 17	0 44	20 4	0 17	18 54	4 36	9 18	9 54	11 9	4 9	4 56
S 9	14 38	0s13	1 41	14 57	1 49	4 5	1 17	19 1	0 55	23 31	0 11	13 52	1 22	10 16	0 44	20 3	0 17	18 54	4 35	9 16	9 53	11 6	4 7	4 56
M10	14 19	5 48	0 40	14 16	1 45	4 35	1 24	19 9	0 54	23 32	0 11	13 50	1 22	10 15	0 44	20 3	0 17	18 54	4 35	9 15	9 51	11 3	4 6	4 56
T 11	13 59	11 15	0s24	13 33	1 40	5 5	1 30	19 17	0 54	23 32	0 11	13 47	1 22	10 13	0 44	20 2	0 17	18 54	4 35	9 15	9 50	11 0	4 5	4 56
W12	13 40	16 22	1 28	12 48	1 34	5 34	1 36	19 24	0 53	23 32	0 11	13 45	1 22	10 12	0 44	20 2	0 17	18 54	4 35	9 15	9 49	10 57	4 4	4 56
T 13	13 19	20 56	2 29	12 3	1 28	6 3	1 43	19 32	0 53	23 32	0 11	13 42	1 22	10 11	0 44	20 1	0 17	18 54	4 35	9 16	9 48	10 54	4 2	4 56
F 14	12 59	24 39	3 25	11 16	1 21	6 32	1 50	19 39	0 52	23 33	0 11	13 40	1 22	10 9	0 44	20 1	0 17	18 54	4 35	9 15	9 47	10 51	4 1	4 56
S 15	12 39	27 12	4 12	10 28	1 14	7 1	1 56	19 46	0 51	23 33	0 11	13 37	1 22	10 8	0 44	20 0	0 17	18 55	4 35	9 15	9 46	10 48	4 0	4 56
S 16	12 18	28 13	4 46	9 39	1 6	7 30	2 3	19 53	0 51	23 33	0 11	13 35	1 22	10 7	0 44	20 0	0 17	18 55	4 34	9 13	9 44	10 44	3 58	4 55
M17	11 57	27 26	5 4	8 49	0 57	7 58	2 10	20 0	0 50	23 33	0 12	13 32	1 22	10 6	0 44	20 0	0 17	18 55	4 34	9 10	9 43	10 41	3 57	4 55
T 18	11 36	24 46	5 3	7 59	0 48	8 27	2 17	20 7	0 49	23 33	0 12	13 30	1 22	10 4	0 44	19 59	0 17	18 55	4 34	9 7	9 42	10 38	3 56	4 55
W19	11 14	20 21	4 41	7 8	0 38	8 54	2 23	20 14	0 49	23 34	0 12	13 27	1 22	10 3	0 44	19 59	0 17	18 55	4 34	9 4	9 41	10 35	3 54	4 55
T 20	10 53	14 34	4 0	6 17	0 27	9 22	2 30	20 21	0 48	23 34	0 12	13 25	1 22	10 2	0 44	19 58	0 17	18 55	4 34	9 1	9 40	10 32	3 53	4 55
F 21	10 31	7 52	3 1	5 25	0 16	9 50	2 37	20 27	0 47	23 34	0 12	13 23	1 22	10 1	0 44	19 58	0 17	18 55	4 34	8 59	9 39	10 29	3 52	4 55
S 22	10 9	0 47	1 49	4 34	0 4	10 17	2 44	20 33	0 46	23 34	0 12	13 20	1 22	9 59	0 44	19 58	0 17	18 56	4 34	8 57	9 37	10 25	3 50	4 55
S 23	9 48	6n14	0 32	3 43	0n 9	10 44	2 52	20 40	0 46	23 34	0 12	13 18	1 22	9 58	0 44	19 57	0 17	18 56	4 33	8 57	9 36	10 22	3 49	4 55
M24	9 25	12 44	0n46	2 53	0 22	11 10	2 59	20 46	0 45	23 34	0 12	13 15	1 22	9 57	0 44	19 57	0 17	18 56	4 33	8 57	9 35	10 19	3 47	4 55
T 25	9 3	18 24	1 59	2 4	0 35	11 36	3 6	20 52	0 44	23 35	0 12	13 13	1 22	9 56	0 44	19 56	0 17	18 56	4 33	8 57	9 34	10 16	3 46	4 55
W26	8 41	22 57	3 2	1 16	0 49	12 2	3 13	20 58	0 43	23 35	0 12	13 10	1 23	9 54	0 44	19 56	0 17	18 56	4 33	8 58	9 33	10 13	3 45	4 55
T 27	8 18	26 10	3 55	0 30	1 3	12 28	3 20	21 4	0 42	23 35	0 13	13 8	1 23	9 53	0 44	19 56	0 17	18 56	4 33	8 58	9 32	10 10	3 43	4 55
F 28	7s56	27n57	4n33	0n14	1n17	12n53	3n28	21s 9	0n42	23n35	0n13	13s 5	1s23	9s52	0s44	19s55	0n17	18n56	4s33	8n57	9n30	10n 6	3s42	4n55

Julian Day Number = 2331046.5, Delta T = 24.44 sec
 Ecliptic obliquity = 23°29'04, Nutation = - 0°00'06
 Ayanamsha: Fagan/Bradley = 20°08'07, Lahiri = 19°15'07Greg. Calendar

SWISS EPHEMERIS for the year 1670

MARCH 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♄	♃	♁	♁	♁	♁	♁	♁	♁
S 1	10 36 8	10 ^h 45'06"	7 ^h 53'33"	28 ^h 49'	25 ^h 45'	9 ^h 31'	5°D27	29 ^h 15'	6 ^h 27'	29 ^h 59'	29°R51	22°R56	24 ^h 26'	12 ^h 31'	8 ^h 57'
S 2	10 40 4	11°45'08"	19°51'	29°54'	26°33'	10° 3'	5 ^h 28'	29°23'	6°31'	0 ^h 1'	29 ^h 50'	22 ^h 51'	24°23'	12°38'	9° 1'
M 3	10 44 1	12°45'07"	1 ^h 59'	0 ^h 52'	27°20'	10°34'	5°28'	29°30'	6°34'	0° 2'	29°50'	22°45'	24°20'	12°44'	9° 5'
T 4	10 47 57	13°45'05"	13°59'	1°42'	28° 6'	11° 4'	5°28'	29°37'	6°37'	0° 4'	29°50'	22°37'	24°16'	12°51'	9° 9'
W 5	10 51 54	14°45'00"	25°54'	2°24'	28°51'	11°35'	5°29'	29°44'	6°41'	0° 6'	29°50'	22°30'	24°13'	12°58'	9°13'
T 6	10 55 51	15°44'54"	7 ^h 45'	2°58'	29°35'	12° 6'	5°30'	29°51'	6°44'	0° 8'	29°49'	22°23'	24°10'	13° 4'	9°17'
F 7	10 59 47	16°44'45"	19°35'	3°23'	0 ^h 19'	12°36'	5°31'	29°58'	6°48'	0° 9'	29°49'	22°18'	24° 7'	13°11'	9°21'
S 8	11 3 44	17°44'34"	1 ^h 25'	3°39'	1° 1'	13° 7'	5°32'	0 ^h 5'	6°51'	0°11'	29°49'	22°14'	24° 4'	13°18'	9°25'
S 9	11 7 40	18°44'22"	13°17'	3°R47'	1°42'	13°37'	5°34'	0°12'	6°55'	0°13'	29°49'	22°12'	24° 0'	13°24'	9°28'
M10	11 11 37	19°44'07"	25°14'	3°46'	2°21'	14° 7'	5°35'	0°19'	6°58'	0°14'	29°49'	22°D11'	23°57'	13°31'	9°32'
T 11	11 15 33	20°43'51"	7 ^h 18'	3°37'	3° 0'	14°36'	5°37'	0°26'	7° 1'	0°16'	29°49'	22°12'	23°54'	13°38'	9°36'
W12	11 19 30	21°43'33"	19°33'	3°20'	3°37'	15° 6'	5°39'	0°33'	7° 5'	0°18'	29°49'	22°14'	23°51'	13°44'	9°40'
T 13	11 23 26	22°43'13"	2 ^h 2'	2°55'	4°13'	15°36'	5°41'	0°40'	7° 8'	0°19'	29°49'	22°16'	23°48'	13°51'	9°44'
F 14	11 27 23	23°42'52"	14°50'	2°23'	4°48'	16° 5'	5°44'	0°47'	7°11'	0°21'	29°D49'	22°17'	23°45'	13°58'	9°48'
S 15	11 31 20	24°42'29"	28° 0'	1°46'	5°22'	16°34'	5°46'	0°54'	7°15'	0°22'	29°49'	22°R17'	23°41'	14° 5'	9°51'
S 16	11 35 16	25°42'04"	11 ^h 35'	1° 3'	5°53'	17° 3'	5°49'	1° 1'	7°18'	0°24'	29°49'	22°16'	23°38'	14°11'	9°55'
M17	11 39 13	26°41'38"	25°36'	0°16'	6°24'	17°32'	5°52'	1° 8'	7°21'	0°25'	29°49'	22°14'	23°35'	14°18'	9°59'
T 18	11 43 9	27°41'09"	10 ^h 4'	29 ^h 25'	6°52'	18° 0'	5°55'	1°14'	7°25'	0°27'	29°49'	22°11'	23°32'	14°25'	10° 3'
W19	11 47 6	28°40'39"	24°53'	28°33'	7°20'	18°29'	5°58'	1°21'	7°28'	0°28'	29°49'	22° 8'	23°29'	14°31'	10° 6'
T 20	11 51 2	29°40'07"	9 ^h 58'	27°40'	7°45'	18°57'	6° 2'	1°28'	7°31'	0°30'	29°49'	22° 5'	23°26'	14°38'	10°10'
F 21	11 54 59	0 ^h 39'32"	25°10'	26°47'	8° 9'	19°25'	6° 5'	1°35'	7°34'	0°31'	29°49'	22° 2'	23°22'	14°45'	10°14'
S 22	11 58 55	1°38'56"	10 ^h 19'	25°56'	8°31'	19°52'	6° 9'	1°41'	7°38'	0°32'	29°50'	22° 1'	23°19'	14°51'	10°18'
S 23	12 2 52	2°38'18"	25°16'	25° 6'	8°51'	20°20'	6°13'	1°48'	7°41'	0°34'	29°50'	22°D 1'	23°16'	14°58'	10°21'
M24	12 6 48	3°37'37"	9 ^h 53'	24°20'	9° 9'	20°47'	6°18'	1°54'	7°44'	0°35'	29°50'	22° 1'	23°13'	15° 5'	10°25'
T 25	12 10 45	4°36'55"	24° 4'	23°38'	9°25'	21°14'	6°22'	2° 1'	7°47'	0°36'	29°50'	22° 2'	23°10'	15°11'	10°28'
W26	12 14 42	5°36'10"	7 ^h 49'	23° 0'	9°39'	21°41'	6°26'	2° 8'	7°50'	0°37'	29°50'	22° 4'	23° 6'	15°18'	10°32'
T 27	12 18 38	6°35'23"	21° 7'	22°26'	9°51'	22° 7'	6°31'	2°14'	7°53'	0°38'	29°51'	22° 5'	23° 3'	15°25'	10°36'
F 28	12 22 35	7°34'33"	4 ^h 1'	21°58'	10° 1'	22°34'	6°36'	2°20'	7°57'	0°40'	29°51'	22°R 5'	23° 0'	15°31'	10°39'
S 29	12 26 31	8°33'41"	16°35'	21°36'	10° 9'	23° 0'	6°41'	2°27'	8° 0'	0°41'	29°51'	22° 5'	22°57'	15°38'	10°43'
S 30	12 30 28	9°32'47"	28°51'	21°18'	10°14'	23°26'	6°46'	2°33'	8° 3'	0°42'	29°52'	22° 4'	22°54'	15°45'	10°46'
M31	12 34 24	10 ^h 31'50"	10 ^h 55'	21 ^h 7'	10 ^h 17'	23 ^h 51'	6 ^h 52'	2 ^h 39'	8 ^h 6'	0 ^h 43'	29 ^h 52'	22 ^h 3'	22 ^h 51'	15 ^h 51'	10 ^h 50'

Day	☉		☽		♀		♂		♄		♃		♁		♁		♁		♁					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
S 1	7s33	28n14	4n58	0n55	1n31	13n18	3n35	21s15	0n41	23n35	0n13	13s 3	1s23	9s50	0s44	19s55	0n17	18n57	4s32	8n56	9n29	10n 3	3s41	4n54
S 2	7 10 27	6 5 9	1 34	1 45	13 42	3 42	21 20	0 40	23 35	0 13	13 0	1 23	9 49	0 44	19 54	0 17	18 57	4 32	8 54	9 28	10 0	3 39	4 54	
M 3	6 47 24	43 5 5	2 10	1 59	14 6	3 49	21 26	0 39	23 35	0 13	12 58	1 23	9 48	0 44	19 54	0 17	18 57	4 32	8 52	9 27	9 57	3 38	4 54	
T 4	6 24 21	15 4 48	2 42	2 12	14 30	3 57	21 31	0 38	23 35	0 13	12 56	1 23	9 47	0 44	19 54	0 17	18 57	4 32	8 49	9 26	9 54	3 36	4 54	
W 5	6 1 16	58 4 19	3 10	2 25	14 53	4 4	21 36	0 37	23 35	0 13	12 53	1 23	9 45	0 44	19 53	0 17	18 57	4 32	8 46	9 25	9 50	3 35	4 54	
T 6	5 38 12	3 3 38	3 35	2 37	15 16	4 11	21 41	0 36	23 35	0 13	12 51	1 23	9 44	0 44	19 53	0 17	18 57	4 32	8 44	9 23	9 47	3 33	4 54	
F 7	5 15 6	43 2 48	3 56	2 49	15 38	4 19	21 46	0 35	23 35	0 13	12 48	1 23	9 43	0 44	19 53	0 17	18 58	4 32	8 42	9 22	9 44	3 32	4 54	
S 8	4 51 1	8 1 51	4 12	2 59	16 0	4 26	21 51	0 34	23 35	0 13	12 46	1 23	9 42	0 44	19 52	0 17	18 58	4 31	8 40	9 21	9 41	3 31	4 54	
S 9	4 28 4s30	0 49 4 24	3 9	16 21	4 33	21 56	0 33	23 35	0 13	12 43	1 24	9 40	0 44	19 52	0 17	18 58	4 31	8 39	9 20	9 38	3 29	4 54		
M10	4 4 10	2 0s17	4 31	3 17	16 42	4 40	22 0	0 32	23 35	0 13	12 41	1 24	9 39	0 44	19 51	0 17	18 58	4 31	8 39	9 19	9 35	3 28	4 54	
T 11	3 41 15	16 1 22	4 33	3 24	17 2	4 48	22 5	0 31	23 35	0 14	12 39	1 24	9 38	0 44	19 51	0 17	18 58	4 31	8 40	9 18	9 31	3 26	4 54	
W12	3 17 19	58 2 24	4 31	3 29	17 22	4 55	22 9	0 30	23 35	0 14	12 36	1 24	9 37	0 44	19 51	0 17	18 58	4 31	8 40	9 16	9 28	3 25	4 54	
T 13	2 54 23	54 3 21	4 24	3 32	17 41	5 2	22 14	0 29	23 35	0 14	12 34	1 24	9 35	0 44	19 50	0 17	18 59	4 31	8 41	9 15	9 25	3 23	4 54	
F 14	2 30 26	45 4 10	4 13	3 34	17 59	5 9	22 18	0 28	23 35	0 14	12 32	1 24	9 34	0 44	19 50	0 17	18 59	4 30	8 41	9 14	9 22	3 22	4 54	
S 15	2 6 28	15 4 47	3 58	3 34	18 17	5 16	22 22	0 27	23 35	0 14	12 29	1 24	9 33	0 44	19 50	0 17	18 59	4 30	8 41	9 13	9 18	3 21	4 54	
S 16	1 43 28	6 5 9	3 39	3 32	18 35	5 23	22 26	0 25	23 35	0 14	12 27	1 24	9 32	0 44	19 49	0 17	18 59	4 30	8 41	9 12	9 15	3 19	4 54	
M17	1 19 26	12 5 14	3 17	3 28	18 51	5 30	22 30	0 24	23 35	0 14	12 25	1 24	9 30	0 44	19 49	0 17	18 59	4 30	8 40	9 10	9 12	3 18	4 54	
T 18	0 55 22	33 4 29	2 52	3 22	19 7	5 36	22 34	0 23	23 35	0 14	12 22	1 25	9 29	0 44	19 49	0 17	18 59	4 30	8 39	9 9	9 9	3 16	4 54	
W19	0 32 17	24 4 25	2 24	3 15	19 23	5 43	22 37	0 22	23 35	0 14	12 20	1 25	9 28	0 44	19 49	0 17	18 59	4 30	8 38	9 8	9 6	3 15	4 54	
T 20	0 8 11	6 3 31	1 55	3 6	19 37	5 49	22 41	0 21	23 35	0 14	12 18	1 25	9 27	0 44	19 48	0 17	19 0	4 29	8 37	9 7	9 2	3 14	4 54	
F 21	0n16	4 6 2 23	1 24	2 55	19 51	5 56	22 45	0 19	23 35	0 14	12 15	1 25	9 26	0 44	19 48	0 17	19 0	4 29	8 36	9 6	8 59	3 12	4 54	
S 22	0 39 3n 7	1 4 0 52	2 43	20 4	6 2	22 48	0 18	23 35	0 14	12 13	1 25	9 24	0 44	19 48	0 17	19 0	4 29	8 35	9 5	8 56	3 11	4 54		
S 23	1 3 10	4 0n18	0 21	2 30	20 16	6 8	22 51	0 17	23 35	0 14	12 11	1 25	9 23	0 44	19 47	0 17	19 0	4 29	8 35	9 3	8 53	3 9	4 54	
M24	1 27 16	20 1 37	0s10	2 16	20 28	6 14	22 55	0 15	23 35	0 14	12 9	1 25	9 22	0 44	19 47	0 17	19 0	4 29	8 36	9 2	8 49	3 8	4 55	
T 25	1 50 21	32 2 48	0 41	2 1	20 39	6 19	22 58	0 14	23 34	0 15	12 6	1 25	9 21	0 44	19 47	0 17	19 0	4 29	8 36	9 1	8 46	3 6	4 55	
W26	2 14 25	23 3 47	1 10	1 46	20 48	6 25	23 1	0 12	23 34	0 15	12 4	1 26	9 20	0 44	19 47	0 17	19 1	4 29	8 37	9 0	8 43	3 5	4 55	
T 27	2 37 27	42 4 32	1 38	1 30	20 57	6 30	23 4	0 11	23 34	0 15	12 2	1 26	9 19	0 44	19 46	0 17	19 1	4 28	8 37	8 59	8 40	3 4	4 55	
F 28	3 1 28	26 5 1 2	3 1	1 14	21 5	6 35	23 7	0 9	23 34	0 15	12 0	1 26	9 17	0 44	19 46	0 17	19 1	4 28	8 37	8 58	8 36	3 2	4 55	
S 29	3 24 27	40 5 15																						

SWISS EPHEMERIS for the year 1670

APRIL 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
T 1	12 38 21	11°30'51	22°05'	21°R 1	10°R17	24°16	6°57	2°46	8°9	0°44	29°53	22°R 2	22°47	15°58	10°53
W 2	12 42 18	12°29'50	4°41	21°D 1	10°B15	24°41	7°3	2°52	8°12	0°45	29°53	22°Y 0	22°44	16°5	10°57
T 3	12 46 14	13°28'47	16°30	21°K 6	10°11	25°6	7°9	2°58	8°15	0°46	29°54	21°59	22°41	16°11	11°0
F 4	12 50 11	14°27'41	28°20	21°16	10°4	25°31	7°15	3°4	8°18	0°47	29°54	21°58	22°38	16°18	11°4
S 5	12 54 7	15°26'33	10°14	21°31	9°55	25°55	7°21	3°10	8°21	0°48	29°55	21°57	22°35	16°25	11°7
S 6	12 58 4	16°25'23	22°13	21°51	9°43	26°19	7°27	3°16	8°24	0°49	29°55	21°D57	22°32	16°31	11°10
M 7	13 2 0	17°24'12	4°20	22°16	9°28	26°42	7°34	3°22	8°26	0°50	29°56	21°57	22°28	16°38	11°14
T 8	13 5 57	18°22'58	16°37	22°45	9°12	27°6	7°40	3°28	8°29	0°50	29°56	21°58	22°25	16°45	11°17
W 9	13 9 53	19°21'43	29°5	23°18	8°53	27°28	7°47	3°34	8°32	0°51	29°57	21°58	22°22	16°51	11°20
T 10	13 13 50	20°20'25	11°46	23°56	8°31	27°51	7°54	3°39	8°35	0°52	29°57	21°58	22°19	16°58	11°23
F 11	13 17 46	21°19'07	24°43	24°37	8°7	28°13	8°1	3°45	8°38	0°53	29°58	21°58	22°16	17°5	11°26
S 12	13 21 43	22°17'46	7°56	25°22	7°42	28°35	8°8	3°51	8°40	0°53	29°59	21°R58	22°12	17°11	11°30
S 13	13 25 40	23°16'24	21°29	26°10	7°14	28°57	8°15	3°56	8°43	0°54	29°59	21°D58	22°9	17°18	11°33
M14	13 29 36	24°15'00	5°22	27°2	6°44	29°18	8°23	4°2	8°46	0°55	29°59	21°58	22°6	17°25	11°36
T 15	13 33 33	25°13'34	19°34	27°57	6°13	29°39	8°30	4°7	8°48	0°55	0°1	21°59	22°3	17°31	11°39
W16	13 37 29	26°12'07	4°4	28°55	5°40	29°59	8°38	4°13	8°51	0°56	0°1	21°59	22°0	17°38	11°42
T 17	13 41 26	27°10'38	18°48	29°55	5°5	0°19	8°46	4°18	8°53	0°56	0°2	21°59	21°57	17°45	11°45
F 18	13 45 22	28°9'07	3°41	0°59	4°30	0°39	8°54	4°23	8°56	0°57	0°3	22°0	21°53	17°51	11°48
S 19	13 49 19	29°7'34	18°34	2°5	3°53	0°58	9°2	4°29	8°58	0°57	0°4	22°R 0	21°50	17°58	11°51
S 20	13 53 15	0°6'00	3°21	3°14	3°16	1°17	9°10	4°34	9°1	0°58	0°5	22°0	21°47	18°5	11°54
M21	13 57 12	1°4'24	17°54	4°25	2°39	1°35	9°18	4°39	9°3	0°58	0°5	21°59	21°44	18°11	11°56
T 22	14 1 9	2°2'46	2°8	5°38	2°1	1°53	9°27	4°44	9°6	0°59	0°6	21°58	21°41	18°18	11°59
W23	14 5 5	3°1'06	15°57	6°54	1°23	2°11	9°35	4°49	9°8	0°59	0°7	21°57	21°38	18°25	12°2
T 24	14 9 2	3°59'24	29°22	8°12	0°46	2°28	9°44	4°54	9°10	0°59	0°8	21°56	21°34	18°31	12°5
F 25	14 12 58	4°57'40	12°22	9°33	0°9	2°44	9°53	4°59	9°13	1°0	0°9	21°54	21°31	18°38	12°7
S 26	14 16 55	5°55'54	24°59	10°55	29°33	3°0	10°2	5°3	9°15	1°0	0°10	21°53	21°28	18°45	12°10
S 27	14 20 51	6°54'06	7°18	12°20	28°57	3°16	10°11	5°8	9°17	1°0	0°11	21°D53	21°25	18°51	12°13
M28	14 24 48	7°52'16	19°23	13°46	28°23	3°31	10°20	5°13	9°19	1°0	0°12	21°53	21°22	18°58	12°15
T 29	14 28 44	8°50'24	1°17	15°15	27°50	3°45	10°29	5°17	9°22	1°0	0°13	21°54	21°18	19°5	12°18
W30	14 32 41	9°48'29	13°7	16°46	27°19	3°59	10°39	5°22	9°24	1°1	0°14	21°Y56	21°15	19°11	12°20

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	♅									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	4n34	18n12	4n32	3s23	0n12	21n25	6n51	23s18	0n3	23n33	0n15	11s51	1s26	9s13	0s44	19s45	0n17	19n2	4s28	8n36	8n53	8n23	2s57	4n55
W 2	4 57	13 25	3 53	3 37	0s 3	21 27	6 54	23 21	0	2 23 33	0 15	11 49	1 26	9 12	0 44	19 45	0 17	19 2	4 27	8 35	8 52	8 20	2 55	4 55
T 3	5 20	8 10	3 4	3 48	0 17	21 28	6 56	23 24	0s	0 23 33	0 15	11 47	1 27	9 11	0 44	19 45	0 17	19 2	4 27	8 35	8 50	8 17	2 54	4 55
F 4	5 43	2 37	2 7	3 57	0 31	21 28	6 58	23 26	0	2 23 32	0 15	11 45	1 27	9 10	0 44	19 45	0 17	19 2	4 27	8 34	8 49	8 14	2 53	4 55
S 5	6 5	3s 4	1 5	4 3	0 44	21 26	7 0	23 29	0	4 23 32	0 15	11 43	1 27	9 9	0 44	19 44	0 17	19 2	4 27	8 34	8 48	8 10	2 51	4 55
S 6	6 28	8 41	0s 1	4 6	0 56	21 23	7 1	23 31	0	5 23 32	0 15	11 41	1 27	9 7	0 44	19 44	0 17	19 2	4 27	8 34	8 47	8 7	2 50	4 56
M 7	6 51	14 4	1 8	4 7	1 8	21 19	7 1	23 34	0	7 23 31	0 15	11 39	1 27	9 6	0 44	19 44	0 17	19 2	4 27	8 34	8 46	8 4	2 49	4 56
T 8	7 13	18 57	2 13	4 6	1 20	21 13	7 1	23 36	0	9 23 31	0 15	11 37	1 27	9 5	0 44	19 44	0 17	19 3	4 26	8 34	8 45	8 1	2 47	4 56
W 9	7 36	23 7	3 12	4 3	1 30	21 6	7 0	23 39	0	11 23 31	0 16	11 35	1 28	9 4	0 44	19 44	0 17	19 3	4 26	8 34	8 43	7 57	2 46	4 56
T 10	7 58	26 15	4 3	3 57	1 40	20 58	6 59	23 41	0	13 23 30	0 16	11 33	1 28	9 3	0 44	19 43	0 17	19 3	4 26	8 34	8 42	7 54	2 45	4 56
F 11	8 20	28 5	4 42	3 49	1 49	20 48	6 57	23 43	0	15 23 30	0 16	11 31	1 28	9 2	0 44	19 43	0 17	19 3	4 26	8 35	8 41	7 51	2 43	4 56
S 12	8 42	28 22	5 8	3 39	1 58	20 36	6 54	23 46	0	17 23 30	0 16	11 29	1 28	9 1	0 44	19 43	0 17	19 3	4 26	8 35	8 40	7 47	2 42	4 56
S 13	9 4 26	59 5	17 3	27 2	6 20	24 6	6 50	23 48	0	19 23 29	0 16	11 27	1 28	9 0	0 45	19 43	0 17	19 3	4 26	8 35	8 39	7 44	2 41	4 56
M14	9 25	23 57	5 9	3 13	2 13	20 10	6 45	23 50	0	21 23 29	0 16	11 25	1 28	8 59	0 45	19 43	0 17	19 3	4 26	8 35	8 37	7 41	2 39	4 56
T 15	9 47	19 26	4 42	2 57	2 20	19 54	6 40	23 52	0	23 23 29	0 16	11 23	1 29	8 58	0 45	19 43	0 17	19 4	4 25	8 35	8 36	7 38	2 38	4 57
W16	10 8	13 42	3 56	2 40	2 26	19 37	6 34	23 54	0	25 23 28	0 16	11 22	1 29	8 57	0 45	19 43	0 17	19 4	4 25	8 35	8 35	7 34	2 37	4 57
T 17	10 29	7 6	2 54	2 20	2 31	19 19	6 28	23 57	0	28 23 28	0 16	11 20	1 29	8 56	0 45	19 42	0 17	19 4	4 25	8 35	8 34	7 31	2 36	4 57
F 18	10 50	0 4	1 40	1 59	2 35	19 0	6 20	23 59	0	30 23 27	0 16	11 18	1 29	8 56	0 45	19 42	0 17	19 4	4 25	8 35	8 33	7 28	2 34	4 57
S 19	11 11	7n 0	0 19	1 36	2 39	18 39	6 12	24 1	0	32 23 27	0 16	11 16	1 29	8 55	0 45	19 42	0 17	19 4	4 25	8 35	8 31	7 24	2 33	4 57
S 20	11 32	13 38	1n 3	1 12	2 43	18 18	6 3	24 3	0	34 23 26	0 16	11 15	1 29	8 54	0 45	19 42	0 17	19 4	4 25	8 35	8 30	7 21	2 32	4 57
M21	11 52	19 25	2 19	0 46	2 46	17 56	5 53	24 5	0	37 23 26	0 16	11 13	1 30	8 53	0 45	19 42	0 17	19 4	4 25	8 35	8 29	7 18	2 31	4 58
T 22	12 12	23 58	3 25	0 29	2 48	17 33	5 43	24 7	0	39 23 25	0 16	11 11	1 30	8 52	0 45	19 42	0 17	19 5	4 24	8 35	8 28	7 15	2 29	4 58
W23	12 32	27 0	4 16	0n 9	2 49	17 9	5 31	24 10	0	42 23 25	0 16	11 10	1 30	8 51	0 45	19 42	0 17	19 5	4 24	8 34	8 27	7 11	2 28	4 58
T 24	12 52	28 21	4 52	0 39	2 50	16 45	5 20	24 12	0	44 23 24	0 16	11 8	1 30	8 50	0 45	19 42	0 17	19 5	4 24	8 33	8 26	7 8	2 27	4 58
F 25	13 12	28 5	5 12	1 11	2 51	16 20	5 8	24 14	0	47 23 23	0 17	11 6	1 30	8 49	0 45	19 42	0 17	19 5	4 24	8 33	8 24	7 5	2 26	4 58
S 26	13 31	26 21	5 16	1 43	2 50	15 56	4 55	24 16	0	49 23 23	0 17	11 5	1 31	8 49	0 45	19 42	0 17	19 5	4 24	8 33	8 23	7 1	2 25	4 58
S 27	13 51	23 24	5 5	2 17	2 50	15 31	4 42	24 19	0	52 23 22	0 17	11 3	1 31	8 48	0 45	19 42	0 17	19 5	4 24	8 33	8 22	6 58	2 24	4 58
M28	14 10	19 29	4 41	2 52	2 48	15 6	4 28	24 21	0	55 23 22	0 17	11 2	1 31	8 47	0 45	19 42	0 17	19 5	4 24	8 33	8 21	6 55	2 22	4 59
T 29	14 28	14 51	4 5	3 28	2 46	14 41	4 15	24 23	0	58 23 21	0 17	11 0	1 31	8 46	0 45	19 42	0 17	19 6	4 23	8 33	8 20	6 51	2 21	4 59
W30	14n47	9n42	3n19	4n 5	2s44	14n17	4n 1	24s26	1s 0	23n20	0n17	10s59	1s31	8s45	0s45	19s42	0n17	19n 6	4s23	8n34	8n18	6n48	2s20	

SWISS EPHEMERIS for the year 1670

MAY 1670 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	14 36 38	10♌46'33	24♍56	18♍18	26♍R50	4♌13	10♌48	5♌26	9♌26	1♌1	0♌15	21♍57	21♍12	19♍18	12♌23
F 2	14 40 34	11°44'35	6♌49	19°53	26♍Y22	4♌26	10°58	5°30	9°28	1°1	0°16	21°59	21°9	19°25	12°25
S 3	14 44 31	12°42'36	18°48	21°30	25°57	4°38	11°8	5°34	9°30	1°R1	0°17	21°R59	21°6	19°31	12°27
S 4	14 48 27	13°40'34	0♍57	23°8	25°34	4°50	11°17	5°39	9°32	1°1	0°18	21°59	21°3	19°38	12°30
M 5	14 52 24	14°38'31	13°17	24°49	25°13	5°1	11°27	5°43	9°33	1°1	0°19	21°58	20°59	19°45	12°32
T 6	14 56 20	15°36'27	25°50	26°32	24°54	5°12	11°37	5°47	9°35	1°0	0°20	21°55	20°56	19°51	12°34
W 7	15 0 17	16°34'20	8♌38	28°16	24°37	5°22	11°47	5°50	9°37	1°0	0°21	21°52	20°53	19°58	12°36
T 8	15 4 13	17°32'13	21°39	0♌3	24°23	5°31	11°57	5°54	9°39	1°0	0°22	21°48	20°50	20°5	12°38
F 9	15 8 10	18°30'04	4♌54	1°51	24°12	5°40	12°8	5°58	9°41	1°0	0°23	21°44	20°47	20°11	12°40
S 10	15 12 7	19°27'54	18°22	3°42	24°3	5°48	12°18	6°2	9°42	1°0	0°25	21°41	20°43	20°18	12°42
S 11	15 16 3	20°25'43	2♌4	5°34	23°56	5°56	12°29	6°5	9°44	1°0	0°26	21°38	20°40	20°25	12°44
M12	15 20 0	21°23'30	15°57	7°29	23°52	6°3	12°39	6°9	9°46	0°59	0°27	21°D37	20°37	20°31	12°46
T 13	15 23 56	22°21'17	0♌2	9°25	23°D50	6°9	12°50	6°12	9°47	0°59	0°28	21°37	20°34	20°38	12°48
W14	15 27 53	23°19'02	14°16	11°23	23°50	6°14	13°0	6°15	9°49	0°59	0°29	21°38	20°31	20°45	12°50
T 15	15 31 49	24°16'46	28°39	13°24	23°53	6°19	13°11	6°19	9°50	0°58	0°30	21°40	20°28	20°51	12°52
F 16	15 35 46	25°14'29	13♍6	15°26	23°58	6°23	13°22	6°22	9°52	0°58	0°32	21°41	20°24	20°58	12°53
S 17	15 39 42	26°12'11	27°35	17°29	24°6	6°27	13°33	6°25	9°53	0°57	0°33	21°R41	20°21	21°5	12°55
S 18	15 43 39	27°9'52	12♌0	19°35	24°15	6°29	13°44	6°28	9°54	0°57	0°34	21°39	20°18	21°11	12°57
M19	15 47 36	28°7'31	26°15	21°42	24°27	6°31	13°55	6°31	9°56	0°56	0°35	21°36	20°15	21°18	12°58
T 20	15 51 32	29°5'10	10♍17	23°50	24°41	6°32	14°6	6°33	9°57	0°56	0°37	21°31	20°12	21°25	13°0
W21	15 55 29	0♍2'47	24°0	25°59	24°56	6°R33	14°18	6°36	9°58	0°55	0°38	21°26	20°9	21°31	13°1
T 22	15 59 25	1°0'23	7♌22	28°10	25°14	6°33	14°29	6°39	9°59	0°55	0°39	21°19	20°5	21°38	13°3
F 23	16 3 22	1°57'58	20°22	0♍21	25°33	6°32	14°40	6°41	10°0	0°54	0°41	21°13	20°2	21°45	13°4
S 24	16 7 18	2°55'31	3♌0	2°33	25°54	6°30	14°52	6°44	10°1	0°54	0°42	21°8	19°59	21°51	13°5
S 25	16 11 15	3°53'03	15°21	4°45	26°17	6°27	15°3	6°46	10°2	0°53	0°43	21°4	19°56	21°58	13°6
M26	16 15 12	4°50'34	27°26	6°56	26°42	6°24	15°15	6°48	10°3	0°52	0°45	21°3	19°53	22°5	13°8
T 27	16 19 8	5°48'03	9♍22	9°8	27°8	6°20	15°27	6°50	10°4	0°51	0°46	21°D2	19°49	22°11	13°9
W28	16 23 5	6°45'30	21°12	11°19	27°36	6°15	15°38	6°52	10°5	0°51	0°47	21°3	19°46	22°18	13°10
T 29	16 27 1	7°42'57	3♌1	13°29	28°5	6°10	15°50	6°54	10°6	0°50	0°49	21°5	19°43	22°25	13°11
F 30	16 30 58	8°40'22	14°56	15°39	28°36	6°3	16°2	6°56	10°7	0°49	0°50	21°R6	19°40	22°31	13°12
S 31	16 34 54	9♍37'47	27♌0	17♍47	29♍8	5♌56	16♌14	6♌58	10♌7	0♌48	0♌51	21♍6	19♍37	22♍38	13♌13

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	15n 5	4n13	2n24	4n43	2s41	13n53	3n47	24s28	1s 3	23n19	0n17	10s57	1s31	8s45	0s45	19s42	0n17	19n 6	4s23	8n34	8n17	6n45	2s19	4n59
F 2	15 23	1s26	1 23	5 22	2 37	13 29	3 32	24 31	1 6	23 19	0 17	10 56	1 32	8 44	0 45	19 42	0 17	19 6	4 23	8 35	8 16	6 42	2 18	4 59
S 3	15 41	7 6	0 18	6 2	2 33	13 7	3 18	24 33	1 9	23 18	0 17	10 55	1 32	8 43	0 45	19 42	0 17	19 6	4 23	8 35	8 15	6 38	2 17	5 0
S 4	15 58	12 36	0s49	6 43	2 28	12 45	3 3	24 36	1 12	23 17	0 17	10 53	1 32	8 43	0 45	19 42	0 17	19 6	4 23	8 35	8 14	6 35	2 16	5 0
M 5	16 16	17 41	1 55	7 25	2 23	12 24	2 49	24 39	1 15	23 16	0 17	10 52	1 32	8 42	0 45	19 42	0 17	19 6	4 23	8 34	8 12	6 32	2 15	5 0
T 6	16 33	22 6	2 56	8 7	2 17	12 3	2 35	24 41	1 18	23 16	0 17	10 51	1 32	8 41	0 45	19 42	0 17	19 6	4 23	8 33	8 11	6 28	2 14	5 0
W 7	16 49	25 33	3 49	8 50	2 11	11 44	2 21	24 44	1 22	23 15	0 17	10 49	1 33	8 41	0 45	19 42	0 17	19 7	4 22	8 32	8 10	6 25	2 13	5 0
T 8	17 6	27 44	4 31	9 34	2 4	11 26	2 7	24 47	1 25	23 14	0 17	10 48	1 33	8 40	0 45	19 42	0 17	19 7	4 22	8 31	8 9	6 22	2 12	5 1
F 9	17 22	28 23	5 0	10 19	1 57	11 9	1 53	24 50	1 28	23 13	0 17	10 47	1 33	8 39	0 45	19 42	0 17	19 7	4 22	8 29	8 8	6 18	2 11	5 1
S 10	17 38	27 23	5 13	11 3	1 49	10 53	1 39	24 53	1 32	23 12	0 17	10 46	1 33	8 39	0 45	19 42	0 17	19 7	4 22	8 28	8 6	6 15	2 10	5 1
S 11	17 53	24 44	5 8	11 49	1 41	10 38	1 26	24 56	1 35	23 11	0 18	10 45	1 34	8 38	0 45	19 42	0 17	19 7	4 22	8 27	8 5	6 12	2 9	5 1
M12	18 9	20 37	4 46	12 34	1 33	10 24	1 13	24 59	1 38	23 10	0 18	10 44	1 34	8 38	0 45	19 42	0 17	19 7	4 22	8 27	8 4	6 8	2 8	5 1
T 13	18 24	15 19	4 6	13 20	1 24	10 12	1 0	25 2	1 42	23 9	0 18	10 42	1 34	8 37	0 45	19 42	0 17	19 7	4 22	8 27	8 3	6 5	2 7	5 2
W14	18 38	9 8	3 10	14 6	1 15	10 0	0 48	25 6	1 45	23 8	0 18	10 41	1 34	8 36	0 46	19 42	0 17	19 7	4 22	8 27	8 2	6 2	2 6	5 2
T 15	18 53	2 25	2 3	14 51	1 5	9 50	0 36	25 9	1 49	23 7	0 18	10 40	1 34	8 36	0 46	19 42	0 17	19 7	4 22	8 28	8 0	5 58	2 6	5 2
F 16	19 7	4n28	0 47	15 37	0 55	9 41	0 24	25 12	1 53	23 6	0 18	10 39	1 35	8 35	0 46	19 42	0 17	19 8	4 21	8 28	7 59	5 55	2 5	5 2
S 17	19 20	11 8	0n32	16 22	0 45	9 33	0 12	25 16	1 56	23 5	0 18	10 39	1 35	8 35	0 46	19 42	0 17	19 8	4 21	8 28	7 58	5 52	2 4	5 2
S 18	19 34	17 11	1 49	17 6	0 35	9 27	0 1	25 20	2 0	23 4	0 18	10 38	1 35	8 34	0 46	19 42	0 17	19 8	4 21	8 27	7 57	5 48	2 3	5 3
M19	19 47	22 13	2 57	17 50	0 24	9 21	0s 9	25 23	2 4	23 3	0 18	10 37	1 35	8 34	0 46	19 43	0 17	19 8	4 21	8 26	7 56	5 45	2 2	5 3
T 20	20 0	25 53	3 54	18 33	0 13	9 16	0 20	25 27	2 8	23 2	0 18	10 36	1 35	8 34	0 46	19 43	0 17	19 8	4 21	8 24	7 54	5 42	2 1	5 3
W21	20 12	27 56	4 36	19 15	0 3	9 13	0 30	25 31	2 12	23 1	0 18	10 35	1 36	8 33	0 46	19 43	0 17	19 8	4 21	8 22	7 53	5 38	2 1	5 3
T 22	20 24	28 17	5 1	19 55	0n 8	9 10	0 39	25 35	2 16	23 0	0 18	10 34	1 36	8 33	0 46	19 43	0 17	19 8	4 21	8 20	7 52	5 35	2 0	5 4
F 23	20 36	27 3	5 10	20 34	0 18	9 8	0 49	25 39	2 20	22 59	0 18	10 34	1 36	8 32	0 46	19 43	0 17	19 8	4 21	8 18	7 51	5 31	1 59	5 4
S 24	20 47	24 26	5 3	21 11	0 29	9 8	0 58	25 43	2 24	22 57	0 18	10 33	1 36	8 32	0 46	19 43	0 17	19 8	4 21	8 16	7 50	5 28	1 58	5 4
S 25	20 58	20 46	4 43	21 45	0 39	9 8	1 6	25 47	2 28	22 56	0 18	10 32	1 37	8 32	0 46	19 43	0 17	19 8	4 20	8 14	7 48	5 25	1 58	5 4
M26	21 9	16 17	4 10	22 18	0 48	9 9	1 15	25 51	2 32	22 55	0 18	10 32	1 37	8 31	0 46	19 43	0 17	19 9	4 20	8 14	7 47	5 21	1 57	5 5
T 27	21 19	11 16	3 27	22 49	0 58	9 11	1 23	25 56	2 36	22 54	0 19	10 31	1 37	8 31	0 46	19 44	0 17	19 9	4 20	8 13	7 46	5 18	1 56	5 5
W28	21 29	5 52	2 35	23 17	1 7	9 14	1 30	26 0	2 40	22 52	0 19	10 31	1 37	8 31	0 46	19 44	0 17	19 9	4 20	8 14	7 45	5 15	1 56	5 5
T 29	21 38	0 16	1 36	23 42	1 15	9 18	1 38	26 5	2 44	22 51	0 19	10 30	1 37	8 30	0 46	19 44	0 17	19 9	4 20	8 14	7 44	5 11	1 55	5 5
F 30	21 47	5s23																						

SWISS EPHEMERIS for the year 1670

JUNE 1670 GC

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
S 1	16 38 51	10II35'10	9M.18	19II53	29Y41	5°R49	16E26	7K 0	10K 8	0°R47	0E53	21°R 4	19Y34	22M45	13K14
M 2	16 42 47	11°32'32	21°51	21°58	0B16	5°K40	16°38	7° 1	10° 9	0°K46	0°54	21°Y 0	19°30	22°51	13°14
T 3	16 46 44	12°29'53	4A742	24° 0	0°52	5°31	16°50	7° 3	10° 9	0°46	0°56	20°54	19°27	22°58	13°15
W 4	16 50 41	13°27'14	17°51	26° 1	1°29	5°21	17° 2	7° 4	10°10	0°45	0°57	20°47	19°24	23° 5	13°16
T 5	16 54 37	14°24'33	1E16	28° 0	2° 8	5°11	17°15	7° 5	10°10	0°44	0°59	20°38	19°21	23°11	13°17
F 6	16 58 34	15°21'53	14°56	29°57	2°47	4°59	17°27	7° 6	10°11	0°43	1° 0	20°29	19°18	23°18	13°17
S 7	17 2 30	16°19'11	28°47	1E51	3°28	4°48	17°39	7° 8	10°11	0°42	1° 1	20°21	19°15	23°25	13°18
S 8	17 6 27	17°16'29	12A47	3°43	4° 9	4°35	17°51	7° 9	10°11	0°41	1° 3	20°15	19°11	23°31	13°18
M 9	17 10 23	18°13'47	26°52	5°32	4°52	4°22	18° 4	7° 9	10°12	0°40	1° 4	20°11	19° 8	23°38	13°19
T 10	17 14 20	19°11'04	11K 0	7°19	5°35	4° 8	18°16	7°10	10°12	0°38	1° 6	20° 9	19° 5	23°45	13°19
W11	17 18 16	20° 8'20	25° 9	9° 4	6°20	3°54	18°29	7°11	10°12	0°37	1° 7	20°D 9	19° 2	23°51	13°19
T 12	17 22 13	21° 5'37	9Y17	10°47	7° 5	3°39	18°41	7°11	10°12	0°36	1° 9	20° 9	18°59	23°58	13°20
F 13	17 26 10	22° 2'53	23°25	12°27	7°51	3°24	18°54	7°12	10°12	0°35	1°10	20°R 9	18°55	24° 5	13°20
S 14	17 30 6	23° 0'09	7E29	14° 4	8°38	3° 8	19° 7	7°12	10°R12	0°34	1°12	20° 8	18°52	24°11	13°20
S 15	17 34 3	23°57'25	21°28	15°39	9°26	2°52	19°19	7°13	10°12	0°33	1°13	20° 5	18°49	24°18	13°20
M16	17 37 59	24°54'41	5II19	17°11	10°14	2°35	19°32	7°13	10°12	0°31	1°14	19°59	18°46	24°25	13°R20
T 17	17 41 56	25°51'56	18°59	18°41	11° 3	2°18	19°45	7°R13	10°12	0°30	1°16	19°50	18°43	24°31	13°20
W18	17 45 52	26°49'11	2E25	20° 9	11°53	2° 1	19°57	7°13	10°12	0°29	1°17	19°40	18°40	24°38	13°20
T 19	17 49 49	27°46'26	15°35	21°34	12°44	1°43	20°10	7°13	10°12	0°28	1°19	19°29	18°36	24°45	13°20
F 20	17 53 45	28°43'40	28°26	22°56	13°35	1°25	20°23	7°13	10°12	0°26	1°20	19°18	18°33	24°51	13°20
S 21	17 57 42	29°40'54	11E0	24°16	14°27	1° 7	20°36	7°12	10°11	0°25	1°22	19° 8	18°30	24°58	13°19
S 22	18 1 39	0E38'07	23°18	25°33	15°19	0°49	20°49	7°12	10°11	0°24	1°23	19° 0	18°27	25° 5	13°19
M23	18 5 35	1°35'20	5M22	26°47	16°12	0°31	21° 2	7°11	10°11	0°22	1°25	18°55	18°24	25°11	13°19
T 24	18 9 32	2°32'32	17°16	27°59	17° 6	0°12	21°15	7°11	10°10	0°21	1°26	18°52	18°21	25°18	13°18
W25	18 13 28	3°29'44	29° 6	29° 7	18° 0	29A54	21°28	7°10	10°10	0°19	1°28	18°D51	18°17	25°24	13°18
T 26	18 17 25	4°26'55	10E55	0E13	18°54	29°35	21°41	7° 9	10° 9	0°18	1°29	18°51	18°14	25°31	13°17
F 27	18 21 21	5°24'06	22°51	1°16	19°49	29°17	21°54	7° 8	10° 9	0°17	1°31	18°R51	18°11	25°38	13°17
S 28	18 25 18	6°21'17	4M57	2°15	20°45	28°59	22° 7	7° 7	10° 8	0°15	1°32	18°50	18° 8	25°44	13°16
S 29	18 29 14	7°18'28	17°20	3°12	21°41	28°41	22°20	7° 6	10° 7	0°14	1°34	18°47	18° 5	25°51	13°15
M30	18 33 11	8E15'39	0A 2	4E 5	22E37	28A23	22E33	7K 5	10K 7	0A12	1E35	18Y42	18Y 1	25M58	13K14

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat								
S 1	22n 5 16s 9	1s37	24n42	1n37	9n33	1s58	26s18	2s57	22n47	0n19	10s29	1s38	8s30	0s46	19s45	0n17	19n 9	4s20	8n14	7n40	5n 1	1s54	5n 6
M 2	22 13 20 48	2 38	24 57	1 42	9 39	2 4	26 23	3 1	22 46	0 19	10 28	1 38	8 30	0 46	19 45	0 17	19 9	4 20	8 13	7 39	4 58	1 53	5 6
T 3	22 20 24 36	3 32	25 8	1 47	9 46	2 9	26 27	3 5	22 44	0 19	10 28	1 39	8 29	0 46	19 45	0 17	19 9	4 20	8 10	7 38	4 55	1 53	5 6
W 4	22 27 27 12	4 17	25 17	1 52	9 54	2 15	26 32	3 10	22 43	0 19	10 28	1 39	8 29	0 46	19 45	0 17	19 9	4 20	8 8	7 36	4 51	1 52	5 7
T 5	22 34 28 17	4 48	25 24	1 56	10 2	2 20	26 37	3 14	22 41	0 19	10 27	1 39	8 29	0 46	19 45	0 17	19 9	4 19	8 4	7 35	4 48	1 52	5 7
F 6	22 41 27 41	5 4	25 28	1 58	10 11	2 25	26 41	3 18	22 40	0 19	10 27	1 39	8 29	0 46	19 46	0 17	19 9	4 19	8 1	7 34	4 44	1 51	5 7
S 7	22 47 25 22	5 2	25 29	2 1	10 21	2 30	26 46	3 22	22 38	0 19	10 27	1 40	8 29	0 46	19 46	0 17	19 9	4 19	7 58	7 33	4 41	1 51	5 7
S 8	22 52 21 31	4 42	25 28	2 2	10 30	2 34	26 51	3 27	22 37	0 19	10 27	1 40	8 29	0 46	19 46	0 17	19 10	4 19	7 56	7 32	4 38	1 50	5 8
M 9	22 58 16 25	4 5	25 25	2 3	10 41	2 38	26 55	3 31	22 35	0 19	10 27	1 40	8 29	0 47	19 46	0 17	19 10	4 19	7 54	7 30	4 34	1 50	5 8
T 10	23 3 10 26	3 14	25 19	2 3	10 51	2 42	27 0	3 35	22 33	0 19	10 27	1 40	8 29	0 47	19 47	0 17	19 10	4 19	7 53	7 29	4 31	1 50	5 8
W11	23 7 3 55	2 10	25 12	2 2	11 3	2 46	27 4	3 39	22 32	0 20	10 27	1 41	8 29	0 47	19 47	0 17	19 10	4 19	7 53	7 28	4 28	1 49	5 8
T 12	23 11 2n48	0 58	25 3	2 0	11 14	2 49	27 9	3 43	22 30	0 20	10 27	1 41	8 29	0 47	19 47	0 17	19 10	4 19	7 53	7 27	4 24	1 49	5 9
F 13	23 15 9 23	0n17	24 52	1 58	11 26	2 53	27 13	3 47	22 28	0 20	10 27	1 41	8 29	0 47	19 47	0 17	19 10	4 19	7 54	7 26	4 21	1 49	5 9
S 14	23 18 15 28	1 31	24 39	1 55	11 38	2 56	27 18	3 51	22 27	0 20	10 27	1 41	8 29	0 47	19 48	0 17	19 10	4 19	7 53	7 24	4 17	1 48	5 9
S 15	23 21 20 43	2 39	24 25	1 52	11 51	2 58	27 22	3 55	22 25	0 20	10 27	1 41	8 29	0 47	19 48	0 17	19 10	4 19	7 52	7 23	4 14	1 48	5 9
M16	23 23 24 46	3 36	24 9	1 47	12 3	3 1	27 26	3 59	22 23	0 20	10 27	1 42	8 29	0 47	19 48	0 17	19 10	4 19	7 50	7 22	4 11	1 48	5 10
T 17	23 25 27 21	4 20	23 52	1 42	12 16	3 3	27 30	4 2	22 21	0 20	10 27	1 42	8 29	0 47	19 48	0 17	19 10	4 19	7 46	7 21	4 7	1 48	5 10
W18	23 27 28 17	4 49	23 34	1 37	12 29	3 5	27 34	4 6	22 20	0 20	10 27	1 42	8 29	0 47	19 49	0 17	19 10	4 19	7 42	7 20	4 4	1 47	5 10
T 19	23 28 27 34	5 2	23 15	1 31	12 43	3 7	27 38	4 10	22 18	0 20	10 28	1 42	8 29	0 47	19 49	0 17	19 10	4 19	7 38	7 18	4 0	1 47	5 10
F 20	23 29 25 23	4 59	22 54	1 24	12 56	3 9	27 42	4 13	22 16	0 20	10 28	1 43	8 29	0 47	19 49	0 17	19 10	4 18	7 34	7 17	3 57	1 47	5 10
S 21	23 29 22 0	4 41	22 33	1 16	13 10	3 11	27 45	4 17	22 14	0 20	10 28	1 43	8 29	0 47	19 49	0 17	19 10	4 18	7 30	7 16	3 54	1 47	5 11
S 22	23 29 17 43	4 11	22 11	1 8	13 24	3 12	27 49	4 20	22 12	0 20	10 29	1 43	8 29	0 47	19 50	0 17	19 10	4 18	7 27	7 15	3 50	1 47	5 11
M23	23 28 12 48	3 29	21 49	1 0	13 38	3 13	27 52	4 23	22 10	0 20	10 29	1 43	8 30	0 47	19 50	0 17	19 10	4 18	7 25	7 13	3 47	1 47	5 11
T 24	23 28 7 29	2 39	21 26	0 51	13 52	3 14	27 55	4 26	22 8	0 20	10 30	1 44	8 30	0 47	19 50	0 17	19 10	4 18	7 24	7 12	3 43	1 47	5 11
W25	23 26 1 56	1 43	21 2	0 41	14 6	3 15	27 58	4 29	22 6	0 21	10 30	1 44	8 30	0 47	19 51	0 17	19 10	4 18	7 24	7 11	3 40	1 47	5 12
T 26	23 25 3s41	0 42	20 39	0 31	14 20	3 16	28 1	4 32	22 4	0 21	10 31	1 44	8 30	0 47	19 51	0 17	19 10	4 18	7 24	7 10	3 37	1 47	5 12
F 27	23 22 9 14	0s21	20 15	0 20	14 35	3 16	28 4	4 35	22 2	0 21	10 31	1 44	8 30	0 47	19 51	0 17	19 10	4 18	7 24	7 9	3 33	1 47	5 12
S 28	23 20 14 31	1 24	19 50	0 9	14 49	3 16	28 7	4 38	22 0	0 21	10 32	1 44	8 31	0 47	19 52	0 17	19 11	4 18	7 23	7 7	3 30	1 47	5 12
S 29	23 17 19 21	2 25	19 26	0s 3	15 3	3 17	28 9	4 40	21 58	0 21	10 32	1 45	8 31	0 47	19 52	0 17	19 11	4 18	7 22	7 6	3 26	1 47	5 13
M30	23n14	23s27	3s20	19n 2	0s15	15n18	3s17	28s11	4s43	21n56	0n21	10s33	1s45	8s31	0s47	19s52	0n17	19n11					

SWISS EPHEMERIS for the year 1670

JULY 1670 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	18 37 8	9 ^h 12'49"	13 ^h 5' 5	4 ^h 55	23 ^h 34	28 ^h R 6	22 ^h 46	7 ^h R 4	10 ^h R 6	0 ^h R11	1 ^h 37	18 ^h R34	17 ^h Y58	26 ^h η 4	13 ^h R14
W 2	18 41 4	10° 9'59	26°32	5°41	24°32	27 ^h 49	22°59	7 ^h 2	10 ^h 5	0 ^h 9	1°38	18 ^h Y24	17°55	26°11	13 ^h κ13
T 3	18 45 1	11° 7'10	10 ^h 32	6°24	25°29	27°32	23°13	7° 1	10° 4	0° 8	1°40	18°13	17°52	26°18	13°12
F 4	18 48 57	12° 4'20	24°25	7° 2	26°27	27°16	23°26	6°59	10° 3	0° 6	1°41	18° 1	17°49	26°24	13°11
S 5	18 52 54	13° 1'31	8 ^h 42	7°37	27°26	27° 0	23°39	6°58	10° 2	0° 5	1°42	17°51	17°46	26°31	13°10
S 6	18 56 50	13°58'42	23° 7	8° 8	28°25	26°44	23°52	6°56	10° 1	0° 3	1°44	17°42	17°42	26°38	13° 9
M 7	19 0 47	14°55'53	7 ^h 32	8°35	29°24	26°29	24° 6	6°54	10° 0	0° 2	1°45	17°36	17°39	26°44	13° 8
T 8	19 4 44	15°53'05	21°53	8°57	0 ^h 24	26°15	24°19	6°52	9°59	0° 0	1°47	17°33	17°36	26°51	13° 7
W 9	19 8 40	16°50'18	6 ^h Y 8	9°15	1°24	26° 1	24°32	6°50	9°58	29 ^h 59	1°48	17°32	17°33	26°58	13° 5
T 10	19 12 37	17°47'31	20°14	9°28	2°24	25°48	24°45	6°48	9°57	29°57	1°50	17°32	17°30	27° 4	13° 4
F 11	19 16 33	18°44'45	4 ^h 11	9°37	3°25	25°35	24°59	6°46	9°56	29°55	1°51	17°31	17°27	27°11	13° 3
S 12	19 20 30	19°41'59	17°58	9°R40	4°26	25°23	25°12	6°44	9°55	29°54	1°53	17°30	17°23	27°18	13° 1
S 13	19 24 26	20°39'14	1 ^h 36	9°39	5°27	25°12	25°25	6°41	9°53	29°52	1°54	17°25	17°20	27°24	13° 0
M14	19 28 23	21°36'30	15° 3	9°33	6°29	25° 1	25°39	6°39	9°52	29°51	1°55	17°18	17°17	27°31	12°58
T 15	19 32 19	22°33'47	28°20	9°23	7°31	24°51	25°52	6°36	9°51	29°49	1°57	17° 9	17°14	27°38	12°57
W16	19 36 16	23°31'04	11 ^h 25	9° 7	8°33	24°42	26° 5	6°34	9°49	29°47	1°58	16°57	17°11	27°44	12°55
T 17	19 40 13	24°28'22	24°16	8°47	9°35	24°33	26°19	6°31	9°48	29°46	2° 0	16°44	17° 7	27°51	12°54
F 18	19 44 9	25°25'41	6 ^h 53	8°22	10°38	24°26	26°32	6°28	9°46	29°44	2° 1	16°31	17° 4	27°58	12°52
S 19	19 48 6	26°23'00	19°17	7°53	11°41	24°19	26°45	6°25	9°45	29°42	2° 2	16°20	17° 1	28° 4	12°50
S 20	19 52 2	27°20'19	1 ^h 27	7°20	12°44	24°13	26°59	6°22	9°43	29°41	2° 4	16°11	16°58	28°11	12°49
M21	19 55 59	28°17'39	13°27	6°44	13°47	24° 8	27°12	6°19	9°42	29°39	2° 5	16° 4	16°55	28°18	12°47
T 22	19 59 55	29°14'59	25°18	6° 4	14°51	24° 4	27°25	6°16	9°40	29°38	2° 6	16° 0	16°52	28°24	12°45
W23	20 3 52	0 ^h 12'20	7 ^h 6	5°23	15°55	24° 0	27°39	6°13	9°38	29°36	2° 8	15°59	16°48	28°31	12°43
T 24	20 7 48	1° 9'42	18°54	4°39	16°59	23°58	27°52	6°10	9°37	29°34	2° 9	15°D58	16°45	28°37	12°41
F 25	20 11 45	2° 7'04	0 ^h 49	3°55	18° 3	23°56	28° 5	6° 6	9°35	29°33	2°10	15°R58	16°42	28°44	12°39
S 26	20 15 42	3° 4'26	12°55	3°11	19° 8	23°55	28°19	6° 3	9°33	29°31	2°12	15°58	16°39	28°51	12°37
S 27	20 19 38	4° 1'50	25°17	2°27	20°12	23°D55	28°32	6° 0	9°31	29°29	2°13	15°56	16°36	28°57	12°35
M28	20 23 35	4°59'14	8 ^h 2	1°44	21°17	23°56	28°45	5°56	9°30	29°28	2°14	15°52	16°33	29° 4	12°33
T 29	20 27 31	5°56'38	2 ^h 11	1° 4	22°22	23°57	28°58	5°52	9°28	29°26	2°15	15°46	16°29	29°11	12°31
W30	20 31 28	6°54'04	4 ^h 36	0°27	23°28	24° 0	29°12	5°49	9°26	29°25	2°17	15°37	16°26	29°17	12°29
T 31	20 35 24	7 ^h 51'30	18 ^h 48	29 ^h 53	24 ^h 33	24 ^h 3	29 ^h 25	5 ^h 45	9 ^h 24	29 ^h 23	2 ^h 18	15 ^h Y27	16 ^h Y23	29 ^h η24	12 ^h κ26

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	23n10	26s28	4s 6	18n38	0s27	15n32	3s16	28s13	4s45	21n54	0n21	10s34	1s45	8s32	0s47	19s53	0n17	19n11	4s18	7n17	7n 4	3n20	1s47	5n13
W 2	23 6 28	6 4 39	18 14	0 40	15 46	3 16	28 15	4 47	21 52	0 21	10 34	1 45	8 32	0 47	19 53	0 17	19 11	4 18	7 14	7 3	3 16	1 47	5 13	
T 3	23 1 28	2 4 58	17 51	0 53	16 0	3 16	28 17	4 49	21 50	0 21	10 35	1 46	8 32	0 47	19 53	0 17	19 11	4 18	7 9	7 1	3 13	1 47	5 13	
F 4	22 56 26	10 4 59	17 28	1 7	16 14	3 15	28 18	4 51	21 48	0 21	10 36	1 46	8 33	0 47	19 54	0 17	19 11	4 18	7 5	7 0	3 9	1 47	5 14	
S 5	22 51 22	38 4 41	17 6	1 21	16 28	3 15	28 20	4 53	21 46	0 21	10 37	1 46	8 33	0 47	19 54	0 17	19 11	4 18	7 1	6 59	3 6	1 48	5 14	
S 6	22 45 17	42 4 6	16 45	1 35	16 42	3 14	28 21	4 54	21 43	0 21	10 38	1 46	8 34	0 48	19 54	0 17	19 11	4 18	6 58	6 58	3 3	1 48	5 14	
M 7	22 39 11	46 3 14	16 24	1 49	16 55	3 13	28 22	4 56	21 41	0 21	10 39	1 47	8 34	0 48	19 55	0 17	19 11	4 18	6 55	6 56	2 59	1 48	5 14	
T 8	22 32 5 14	2 11 16	4 2	3 17	9 3	12 28	23 4 57	21 39	0 22	10 39	1 47	8 34	0 48	19 55	0 17	19 11	4 18	6 54	6 55	2 56	1 48	5 14		
W 9	22 25 1n31	1 0 15	46 2 18	17 22	3 10	28 24	4 58	21 37	0 22	10 40	1 47	8 35	0 48	19 55	0 17	19 11	4 18	6 54	6 54	2 52	1 49	5 15		
T 10	22 18 8 9	0n14	15 28	2 32	17 35	3 9	28 24	4 59	21 34	0 22	10 41	1 47	8 35	0 48	19 56	0 17	19 11	4 18	6 54	6 53	2 49	1 49	5 15	
F 11	22 10 14 18	1 27 15	12 2 47	17 48	3 8	28 25	5 0	21 32	0 22	10 42	1 47	8 36	0 48	19 56	0 17	19 11	4 18	6 53	6 52	2 46	1 49	5 15		
S 12	22 2 19 40	2 33 14	57 3 1	18 1 3	6 28	25 5 1	21 30	0 22	10 43	1 48	8 36	0 48	19 56	0 17	19 11	4 18	6 53	6 50	2 42	1 50	5 15			
S 13	21 54 23 57	3 30 14	44 3 15	18 14 3	5 28	25 5 2	21 27	0 22	10 45	1 48	8 37	0 48	19 57	0 17	19 11	4 18	6 51	6 49	2 39	1 50	5 15			
M14	21 45 26 52	4 15 14	32 3 28	18 26 3	3 28	26 5 2	21 25	0 22	10 46	1 48	8 37	0 48	19 57	0 17	19 11	4 18	6 48	6 48	2 35	1 50	5 16			
T 15	21 36 28 13	4 45 14	23 3 42	18 38 3	1 28	26 5 3	21 23	0 22	10 47	1 48	8 38	0 48	19 57	0 17	19 11	4 18	6 45	6 47	2 32	1 51	5 16			
W16	21 26 27 57	4 59 14	15 3 54	18 49 2	59 28	26 5 3	21 20	0 22	10 48	1 48	8 38	0 48	19 58	0 17	19 11	4 17	6 40	6 46	2 29	1 51	5 16			
T 17	21 16 26 11	4 58 14	9 4 6	19 1 2	57 28	25 5 3	21 18	0 22	10 49	1 49	8 39	0 48	19 58	0 17	19 11	4 17	6 35	6 44	2 25	1 52	5 16			
F 18	21 6 23 8	4 42 14	4 4 17	19 12 2	55 28	25 5 3	21 15	0 22	10 50	1 49	8 40	0 48	19 58	0 17	19 11	4 17	6 30	6 43	2 22	1 52	5 16			
S 19	20 55 19 4	4 13 14	2 4 26	19 23 2	53 28	25 5 3	21 13	0 22	10 52	1 49	8 40	0 48	19 59	0 17	19 11	4 17	6 26	6 42	2 18	1 53	5 17			
S 20	20 44 14 17	3 33 14	2 4 35	19 33 2	50 28	25 5 3	21 10	0 23	10 53	1 49	8 41	0 48	19 59	0 17	19 11	4 17	6 23	6 41	2 15	1 53	5 17			
M21	20 33 9 2	2 43 14	4 4 42	19 43 2	48 28	24 5 3	21 8	0 23	10 54	1 49	8 41	0 48	19 59	0 17	19 11	4 17	6 20	6 39	2 11	1 54	5 17			
T 22	20 21 3 31	1 47 14	8 4 48	19 53 2	45 28	24 5 3	21 5	0 23	10 56	1 50	8 42	0 48	20 0	0 17	19 11	4 17	6 18	6 38	2 8	1 54	5 17			
W23	20 9 2s 6	0 47 14	14 4 52	20 2 2	43 28	23 5 3	21 3	0 23	10 57	1 50	8 43	0 48	20 0	0 17	19 11	4 17	6 18	6 37	2 5	1 55	5 17			
T 24	19 56 7 40	0s16	14 21 4	55 20 11	2 40	28 22 5	2 21	0 23	10 58	1 50	8 43	0 48	20 1	0 17	19 11	4 17	6 18	6 36	2 1	1 55	5 17			
F 25	19 44 13 0	1 18 14	31 4 56	20 20 2	37 28	22 5 1	20 58	0 23	11 0	1 50	8 44	0 48	20 1	0 17	19 11	4 17	6 18	6 35	1 58	1 56	5 18			
S 26	19 30 17 56	2 18 14	42 4 55	20 28 2	35 28	21 5 1	20 55	0 23	11 1	1 50	8 45	0 48	20 1	0 17	19 11	4 17	6 18	6 33	1 54	1 57	5 18			
S 27	19 17 22 15	3 13 14	54 4 52	20 36 2	32 28	20 5 0	20 52	0 23	11 3	1 50	8 45	0 48	20 2	0 17	19 11	4 17	6 17	6 32	1 51	1 57	5 18			
M28	19 3 25 38	4 0 15	8 4 48	20 43 2	29 28	20 4 5	20 50	0 23	11 4	1 51	8 46	0 48	20 2	0 17	19 11	4 17	6 15	6 31	1 48	1 58	5 18			
T 29	18 49 27 47	4 36 15	23 4 42	20 50 2	26 28	19 4 5																		

SWISS EPHEMERIS for the year 1670

AUGUST 1670 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	20 39 21	8♂48'57	3♁11	29°R24	25♂39	24♂7	29♁38	5°R41	9°R22	29°R21	2♁19	15°R17	16♂20	29♂31	12°R24
S 2	20 43 17	9°46'25	17°51	29♁0	26°45	24°12	29°51	5♂37	9♂20	29♁20	2°20	15♂8	16°17	29°37	12♂22
S 3	20 47 14	10°43'54	2♂40	28°42	27°51	24°18	0♂5	5°34	9°18	29°18	2°22	15°0	16°13	29°44	12°20
M 4	20 51 11	11°41'24	17°28	28°29	28°57	24°24	0°18	5°30	9°16	29°17	2°23	14°55	16°10	29°51	12°17
T 5	20 55 7	12°38'56	2♂10	28°D23	0♁5	24°32	0°31	5°26	9°14	29°15	2°24	14°53	16°7	29°57	12°15
W 6	20 59 4	13°36'29	16°40	28°24	1°10	24°40	0°44	5°22	9°12	29°13	2°25	14°D52	16°4	0♁4	12°12
T 7	21 3 0	14°34'03	0♁55	28°32	2°17	24°49	0°57	5°18	9°10	29°12	2°26	14°53	16°1	0°11	12°10
F 8	21 6 57	15°31'39	14°52	28°46	3°24	24°58	1°10	5°13	9°8	29°10	2°28	14°R53	15°58	0°17	12°8
S 9	21 10 53	16°29'16	28°33	29°8	4°31	25°9	1°23	5°9	9°6	29°9	2°29	14°52	15°54	0°24	12°5
S 10	21 14 50	17°26'56	11♂59	29°37	5°39	25°20	1°36	5°5	9°3	29°7	2°30	14°50	15°51	0°31	12°3
M 11	21 18 46	18°24'36	25°9	0♂13	6°46	25°32	1°49	5°1	9°1	29°6	2°31	14°45	15°48	0°37	12°0
T 12	21 22 43	19°22'18	8♁7	0°57	7°54	25°44	2°2	4°57	8°59	29°4	2°32	14°38	15°45	0°44	11°57
W 13	21 26 40	20°20'02	20°51	1°47	9°1	25°57	2°15	4°52	8°57	29°3	2°33	14°29	15°42	0°51	11°55
T 14	21 30 36	21°17'47	3♂24	2°44	10°9	26°11	2°28	4°48	8°55	29°1	2°34	14°19	15°39	0°57	11°52
F 15	21 34 33	22°15'34	15°45	3°47	11°17	26°26	2°41	4°43	8°52	29°0	2°35	14°10	15°35	1°4	11°49
S 16	21 38 29	23°13'22	27°56	4°57	12°26	26°41	2°54	4°39	8°50	28°58	2°36	14°1	15°32	1°10	11°47
S 17	21 42 26	24°11'11	9♂57	6°12	13°34	26°58	3°7	4°35	8°48	28°57	2°37	13°54	15°29	1°17	11°44
M 18	21 46 22	25°9'02	21°51	7°34	14°42	27°14	3°20	4°30	8°45	28°55	2°38	13°50	15°26	1°24	11°41
T 19	21 50 19	26°6'54	3♁39	9°0	15°51	27°32	3°33	4°26	8°43	28°54	2°39	13°47	15°23	1°30	11°39
W 20	21 54 15	27°4'47	15°25	10°32	17°0	27°50	3°45	4°21	8°41	28°53	2°40	13°D46	15°19	1°37	11°36
T 21	21 58 12	28°2'42	27°13	12°8	18°9	28°8	3°58	4°17	8°38	28°51	2°41	13°47	15°16	1°44	11°33
F 22	22 2 9	29°0'38	9♂6	13°48	19°17	28°27	4°11	4°12	8°36	28°50	2°42	13°49	15°13	1°50	11°30
S 23	22 6 5	29°58'35	21°11	15°32	20°27	28°47	4°23	4°8	8°34	28°49	2°43	13°50	15°10	1°57	11°28
S 24	22 10 2	0♂56'34	3♂32	17°18	21°36	29°8	4°36	4°3	8°31	28°47	2°44	13°R50	15°7	2°4	11°25
M 25	22 13 58	1°54'34	16°14	19°7	22°45	29°29	4°49	3°58	8°29	28°46	2°44	13°49	15°4	2°10	11°22
T 26	22 17 55	2°52'36	29°20	20°59	23°55	29°50	5°1	3°54	8°27	28°45	2°45	13°46	15°0	2°17	11°19
W 27	22 21 51	3°50'39	12♁55	22°52	25°4	0♁12	5°13	3°49	8°24	28°43	2°46	13°42	14°57	2°24	11°16
T 28	22 25 48	4°48'43	26°57	24°46	26°14	0°35	5°26	3°45	8°22	28°42	2°47	13°37	14°54	2°30	11°13
F 29	22 29 44	5°46'49	11♁27	26°42	27°24	0°58	5°38	3°40	8°19	28°41	2°48	13°31	14°51	2°37	11°11
S 30	22 33 41	6°44'56	26°17	28°38	28°34	1°22	5°51	3°36	8°17	28°40	2°49	13°25	14°48	2°44	11°8
S 31	22 37 38	7♂43'05	11♂20	0♂34	29♁44	1♁46	6♂3	3♂31	8♂15	28♁39	2♁49	13♂21	14♂45	2♁50	11♂5

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁			
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat		
F 1	18n 5	24s 9	4s48	16n11	4s13	21n 8	2s17	28s16	4s55	20n39	0n24	11s10	1s51	8s49	0s48	20s 3	0n16	19n10	4s17	6n 2	6n26	1n34	2s 1	5n18
S 2	17 50	19 34	4 15	16 28	4 1	21 13	2 13	28 15	4 54	20 36	0 24	11 12	1 51	8 50	0 48	20 4	0 16	19 10	4 17	5 58	6 25	1 30	2 2	5 19
S 3	17 35	13 44	3 25	16 45	3 48	21 18	2 10	28 14	4 53	20 34	0 24	11 13	1 52	8 51	0 48	20 4	0 16	19 10	4 17	5 55	6 24	1 27	2 2	5 19
M 4	17 19	7 7	2 21	17 1	3 33	21 22	2 7	28 13	4 52	20 31	0 24	11 15	1 52	8 51	0 48	20 4	0 16	19 10	4 17	5 53	6 22	1 24	2 3	5 19
T 5	17 3	0 10	1 7	17 17	3 18	21 26	2 3	28 12	4 50	20 28	0 24	11 16	1 52	8 52	0 48	20 5	0 16	19 10	4 17	5 52	6 21	1 20	2 4	5 19
W 6	16 46	6n43	0n10	17 33	3 2	21 29	2 0	28 11	4 49	20 25	0 24	11 18	1 52	8 53	0 48	20 5	0 16	19 10	4 17	5 52	6 20	1 17	2 5	5 19
T 7	16 30	13 8	1 25	17 47	2 46	21 31	1 57	28 10	4 48	20 23	0 24	11 20	1 52	8 54	0 48	20 5	0 16	19 10	4 17	5 52	6 19	1 13	2 6	5 19
F 8	16 13	18 46	2 33	18 1	2 29	21 33	1 53	28 9	4 46	20 20	0 24	11 21	1 52	8 55	0 48	20 6	0 16	19 10	4 17	5 52	6 17	1 10	2 6	5 19
S 9	15 55	23 19	3 32	18 13	2 12	21 35	1 50	28 8	4 45	20 17	0 24	11 23	1 53	8 55	0 48	20 6	0 16	19 10	4 17	5 52	6 16	1 6	2 7	5 19
S 10	15 38	26 31	4 17	18 24	1 55	21 36	1 46	28 7	4 43	20 14	0 25	11 25	1 53	8 56	0 48	20 6	0 16	19 10	4 18	5 51	6 15	1 3	2 8	5 19
M 11	15 20	28 12	4 48	18 33	1 38	21 36	1 43	28 6	4 42	20 12	0 25	11 26	1 53	8 57	0 48	20 7	0 16	19 10	4 18	5 49	6 14	1 0	2 9	5 19
T 12	15 2	28 17	5 4	18 40	1 21	21 36	1 39	28 5	4 40	20 9	0 25	11 28	1 53	8 58	0 48	20 7	0 16	19 10	4 18	5 47	6 13	0 56	2 10	5 19
W 13	14 44	26 52	5 4	18 45	1 5	21 35	1 35	28 4	4 38	20 6	0 25	11 30	1 53	8 59	0 48	20 7	0 16	19 10	4 18	5 43	6 11	0 53	2 11	5 20
T 14	14 26	24 7	4 49	18 48	0 48	21 34	1 32	28 2	4 37	20 3	0 25	11 31	1 53	9 0	0 49	20 8	0 16	19 10	4 18	5 39	6 10	0 49	2 12	5 20
F 15	14 7	20 18	4 21	18 49	0 33	21 32	1 28	28 1	4 35	20 0	0 25	11 33	1 53	9 0	0 49	20 8	0 16	19 10	4 18	5 36	6 9	0 46	2 13	5 20
S 16	13 48	15 40	3 41	18 47	0 18	21 30	1 24	28 0	4 33	19 57	0 25	11 35	1 53	9 1	0 49	20 8	0 16	19 10	4 18	5 32	6 8	0 42	2 14	5 20
S 17	13 29	10 30	2 52	18 42	0 3	21 27	1 21	27 59	4 32	19 55	0 25	11 37	1 53	9 2	0 49	20 9	0 16	19 10	4 18	5 30	6 6	0 39	2 15	5 20
M 18	13 10	5 1	1 56	18 35	0n10	21 24	1 17	27 57	4 30	19 52	0 25	11 38	1 54	9 3	0 49	20 9	0 16	19 10	4 18	5 28	6 5	0 35	2 16	5 20
T 19	12 50	0s37	0 55	18 25	0 23	21 20	1 13	27 56	4 28	19 49	0 26	11 40	1 54	9 4	0 49	20 9	0 16	19 10	4 18	5 27	6 4	0 32	2 17	5 20
W 20	12 30	6 13	0s 9	18 12	0 35	21 15	1 10	27 54	4 26	19 46	0 26	11 42	1 54	9 5	0 49	20 10	0 16	19 10	4 18	5 27	6 3	0 29	2 18	5 20
T 21	12 11	11 37	1 12	17 56	0 47	21 10	1 6	27 53	4 25	19 43	0 26	11 44	1 54	9 6	0 49	20 10	0 16	19 10	4 18	5 27	6 2	0 25	2 19	5 20
F 22	11 50	16 40	2 13	17 37	0 57	21 4	1 2	27 51	4 23	19 40	0 26	11 45	1 54	9 7	0 49	20 10	0 16	19 10	4 18	5 28	6 0	0 22	2 20	5 20
S 23	11 30	21 8	3 9	17 16	1 6	20 58	0 59	27 50	4 21	19 37	0 26	11 47	1 54	9 8	0 49	20 10	0 16	19 10	4 18	5 28	5 59	0 18	2 21	5 20
S 24	11 10	24 47	3 57	16 51	1 14	20 51	0 55	27 48	4 19	19 34	0 26	11 49												

SWISS EPHEMERIS for the year 1670

SEPTEMBER 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	22 41 34	8♎41'15	26♋28	2♎31	0♏54	2♉10	6♌15	3°R27	8°R12	28°R37	2♉50	13°R19	14°Y41	2♉57	11°R 2
T 2	22 45 31	9°39'28	11°Y30	4°27	2° 4	2°35	6°27	3°K22	8°K10	28°K36	2°51	13°D18	14°38	3° 3	10°K59
W 3	22 49 27	10°37'42	26°19	6°23	3°15	3° 1	6°39	3°17	8° 7	28°35	2°51	13°Y18	14°35	3°10	10°56
T 4	22 53 24	11°35'59	10°B50	8°18	4°25	3°27	6°51	3°13	8° 5	28°34	2°52	13°19	14°32	3°17	10°53
F 5	22 57 20	12°34'17	24°58	10°13	5°36	3°53	7° 3	3° 8	8° 3	28°33	2°53	13°21	14°29	3°23	10°50
S 6	23 1 17	13°32'38	8°II43	12° 7	6°47	4°20	7°15	3° 4	8° 0	28°32	2°53	13°R22	14°25	3°30	10°48
S 7	23 5 13	14°31'01	22° 7	14° 1	7°58	4°47	7°27	3° 0	7°58	28°31	2°54	13°22	14°22	3°37	10°45
M 8	23 9 10	15°29'26	5♉10	15°53	9° 9	5°15	7°39	2°55	7°56	28°30	2°54	13°20	14°19	3°43	10°42
T 9	23 13 7	16°27'54	17°55	17°45	10°20	5°43	7°50	2°51	7°53	28°29	2°55	13°18	14°16	3°50	10°39
W10	23 17 3	17°26'23	0♏26	19°35	11°31	6°12	8° 2	2°46	7°51	28°28	2°56	13°14	14°13	3°57	10°36
T 11	23 21 0	18°24'54	12°44	21°24	12°42	6°41	8°14	2°42	7°48	28°27	2°56	13°10	14°10	4° 3	10°33
F 12	23 24 56	19°23'28	24°51	23°13	13°53	7°10	8°25	2°38	7°46	28°26	2°57	13° 6	14° 6	4°10	10°30
S 13	23 28 53	20°22'03	6♎51	25° 0	15° 5	7°40	8°37	2°34	7°44	28°25	2°57	13° 2	14° 3	4°17	10°28
S 14	23 32 49	21°20'41	18°44	26°47	16°16	8°10	8°48	2°29	7°41	28°25	2°57	12°59	14° 0	4°23	10°25
M15	23 36 46	22°19'20	0♉33	28°32	17°28	8°40	8°59	2°25	7°39	28°24	2°58	12°58	13°57	4°30	10°22
T 16	23 40 42	23°18'01	12°19	0♉16	18°40	9°11	9°11	2°21	7°37	28°23	2°58	12°D57	13°54	4°37	10°19
W17	23 44 39	24°16'44	24° 6	2° 0	19°52	9°42	9°22	2°17	7°35	28°22	2°59	12°58	13°51	4°43	10°16
T 18	23 48 36	25°15'29	5♎56	3°42	21° 3	10°13	9°33	2°13	7°32	28°22	2°59	12°59	13°47	4°50	10°14
F 19	23 52 32	26°14'16	17°33	5°23	22°15	10°45	9°44	2° 9	7°30	28°21	2°59	13° 0	13°44	4°56	10°11
S 20	23 56 29	27°13'05	29°59	7° 4	23°27	11°17	9°55	2° 5	7°28	28°20	3° 0	13° 1	13°41	5° 3	10° 8
S 21	0 0 25	28°11'56	12♌20	8°43	24°40	11°50	10° 6	2° 1	7°26	28°20	3° 0	13° 3	13°38	5°10	10° 5
M22	0 4 22	29°10'48	24°59	10°22	25°52	12°22	10°16	1°57	7°24	28°19	3° 0	13°R 3	13°35	5°16	10° 3
T 23	0 8 18	0♉ 9'42	8♉ 1	11°59	27° 4	12°55	10°27	1°54	7°21	28°18	3° 0	13° 3	13°31	5°23	10° 0
W24	0 12 15	1° 8'38	21°27	13°36	28°17	13°29	10°38	1°50	7°19	28°18	3° 1	13° 2	13°28	5°30	9°57
T 25	0 16 11	2° 7'35	5♎21	15°12	29°29	14° 2	10°48	1°46	7°17	28°17	3° 1	13° 1	13°25	5°36	9°55
F 26	0 20 8	3° 6'35	19°42	16°47	0♎42	14°36	10°58	1°43	7°15	28°17	3° 1	13° 0	13°22	5°43	9°52
S 27	0 24 5	4° 5'36	4♋26	18°21	1°54	15°10	11° 9	1°39	7°13	28°16	3° 1	12°59	13°19	5°50	9°50
S 28	0 28 1	5° 4'38	19°29	19°54	3° 7	15°45	11°19	1°36	7°11	28°16	3° 1	12°58	13°16	5°56	9°47
M29	0 31 58	6° 3'43	4♎42	21°27	4°20	16°19	11°29	1°32	7° 9	28°16	3° 1	12°58	13°12	6° 3	9°45
T 30	0 35 54	7° 2'50	19°Y54	22°58	5♎33	16°54	11°43	1°29	7° 7	28°15	3° 2	12°D58	13°Y 9	6°10	9°42

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	8n20	2s48	1s31	12n16	1n47	19n35	0s26	27s31	4s 3	19n11	0n27	12s 3	1s55	9s16	0s49	20s13	0n16	19n 9	4s18	5n16	5n48	0s13	2s31	5n20
T 2	7 58	4n24	0 10	11 34	1 47	19 23	0 22	27 29	4 2	19 8	0 27	12 4	1 55	9 17	0 49	20 13	0 16	19 9	4 18	5 15	5 47	0 16	2 32	5 20
W 3	7 36	11 17	1n11	10 51	1 47	19 10	0 18	27 26	4 0	19 5	0 27	12 6	1 55	9 17	0 49	20 13	0 16	19 9	4 18	5 16	5 46	0 20	2 33	5 19
T 4	7 14	17 24	2 25	10 7	1 46	18 57	0 15	27 24	3 58	19 2	0 28	12 8	1 55	9 18	0 49	20 14	0 16	19 9	4 18	5 16	5 44	0 23	2 34	5 19
F 5	6 51	22 25	3 29	9 22	1 45	18 43	0 11	27 21	3 56	18 59	0 28	12 9	1 55	9 19	0 49	20 14	0 16	19 9	4 18	5 17	5 43	0 26	2 35	5 19
S 6	6 29	26 3	4 18	8 36	1 42	18 29	0 8	27 18	3 54	18 57	0 28	12 11	1 55	9 20	0 49	20 14	0 16	19 9	4 18	5 17	5 42	0 30	2 36	5 19
S 7	6 6	28 7	4 53	7 50	1 40	18 15	0 4	27 15	3 52	18 54	0 28	12 13	1 55	9 21	0 49	20 14	0 16	19 9	4 18	5 17	5 41	0 33	2 38	5 19
M 8	5 44	28 33	5 11	7 4	1 37	17 59	0 1	27 12	3 50	18 51	0 28	12 14	1 55	9 22	0 49	20 14	0 16	19 9	4 18	5 16	5 39	0 37	2 39	5 19
T 9	5 21	27 27	5 13	6 17	1 33	17 44	0n 2	27 9	3 48	18 48	0 28	12 16	1 55	9 23	0 49	20 15	0 16	19 9	4 18	5 15	5 38	0 40	2 40	5 19
W10	4 58	24 58	5 0	5 30	1 29	17 27	0 6	27 6	3 46	18 45	0 28	12 17	1 55	9 24	0 49	20 15	0 16	19 9	4 18	5 14	5 37	0 44	2 41	5 19
T 11	4 35	21 23	4 33	4 42	1 25	17 11	0 9	27 2	3 44	18 42	0 28	12 19	1 55	9 24	0 49	20 15	0 16	19 9	4 19	5 12	5 36	0 47	2 42	5 19
F 12	4 12	16 57	3 55	3 55	1 20	16 53	0 12	26 59	3 42	18 39	0 29	12 21	1 55	9 25	0 49	20 15	0 16	19 9	4 19	5 11	5 34	0 51	2 43	5 19
S 13	3 49	11 54	3 6	3 8	1 15	16 36	0 16	26 55	3 40	18 36	0 29	12 22	1 55	9 26	0 49	20 15	0 16	19 9	4 19	5 9	5 33	0 54	2 45	5 19
S 14	3 26	6 27	2 10	2 21	1 9	16 17	0 19	26 51	3 38	18 33	0 29	12 24	1 55	9 27	0 49	20 16	0 16	19 8	4 19	5 8	5 32	0 57	2 46	5 18
M15	3 3	0 49	1 8	1 34	1 4	15 59	0 22	26 47	3 36	18 31	0 29	12 25	1 55	9 28	0 49	20 16	0 16	19 8	4 19	5 8	5 31	1 1	2 47	5 18
T 16	2 40	4s50	0 3	0 47	0 58	15 39	0 25	26 43	3 34	18 28	0 29	12 27	1 55	9 29	0 49	20 16	0 16	19 8	4 19	5 7	5 29	1 4	2 48	5 18
W17	2 17	10 19	1s 1	0s 0	0 52	15 20	0 28	26 39	3 31	18 25	0 29	12 28	1 55	9 30	0 49	20 16	0 16	19 8	4 19	5 8	5 28	1 8	2 49	5 18
T 18	1 53	15 28	2 4	0 47	0 46	15 0	0 31	26 34	3 29	18 22	0 29	12 29	1 55	9 30	0 49	20 16	0 16	19 8	4 19	5 8	5 27	1 11	2 50	5 18
F 19	1 30	20 6	3 2	1 33	0 39	14 39	0 34	26 30	3 27	18 19	0 30	12 31	1 55	9 31	0 48	20 17	0 16	19 8	4 19	5 9	5 26	1 15	2 52	5 18
S 20	1 6	23 58	3 52	2 19	0 33	14 18	0 37	26 25	3 25	18 17	0 30	12 32	1 55	9 32	0 48	20 17	0 16	19 8	4 19	5 9	5 25	1 18	2 53	5 18
S 21	0 43	26 49	4 33	3 4	0 26	13 57	0 40	26 20	3 23	18 14	0 30	12 34	1 55	9 33	0 48	20 17	0 16	19 8	4 19	5 10	5 23	1 21	2 54	5 17
M22	0 20	28 25	5 2	3 49	0 19	13 35	0 43	26 15	3 21	18 11	0 30	12 35	1 55	9 34	0 48	20 17	0 16	19 8	4 19	5 10	5 22	1 25	2 55	5 17
T 23	0s 4	28 30	5 16	4 34	0 12	13 13	0 45	26 10	3 19	18 8	0 30	12 36	1 55	9 34	0 48	20 17	0 16	19 8	4 19	5 10	5 21	1 28	2 56	5 17
W24	0 27	26 56	5 14	5 18	0 5	12 51	0 48	26 4	3 17	18 6	0 30	12 38	1 55	9 35	0 48	20 17	0 16	19 8	4 19	5 9	5 20	1 32	2 57	5 17
T 25	0 51	23 42	4 54	6 1	0s 2	12 28	0 51	25 59	3 15	18 3	0 31	12 39	1 55	9 36	0 48	20 17	0 16	19 8	4 19	5 9	5 18	1 35	2 58	5 17
F 26	1 14	18 58	4 15	6 45	0 9	12 5	0 53	25 53	3 13	18 0	0 31	12 40	1 55	9 37	0 48	20 17	0 16	19 8	4 19	5 9	5 17	1 39	3 0	5 17
S 27	1 38	12 58	3 18	7 27	0 16	11 41	0 56	25 47	3 11	17 57	0 31	12 41	1 54	9 38	0 48	20 18	0 16	19 8	4 19	5 8	5 16	1 42	3 1	5 16
S 28	2 1	6 7	2 7	8 9	0 23	11 17	0 58	25 41	3 9	17 55	0 31	12 42	1 54	9 38	0 48	20 18	0 16	19 8	4 19	5 8	5 15	1 46	3 2	5 16
M29	2 25	1n10	0 46	8 51	0 30	10 53	1 0	25 35	3 7	17 52	0 31	12 44	1 54	9 39	0 48	20 18	0 15	19 8	4 19	5 8	5 13	1 49	3 3	5 16
T 30	2s48	8n24	0n39	9s32	0s38	10n28	1n 3	25s29	3s 6	17n49	0n31	12s45	1s54	9s40	0s48	20s18	0n15							

SWISS EPHEMERIS for the year 1670

OCTOBER 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
W 1	0 39 51	8♁ 1'59	4♁58	24♁29	6♁45	17♁29	11♁49	1°R26	7°R 5	28°R15	3♁ 2	12°V58	13°V 6	6♁16	9°R40	
T 2	0 43 47	9° 1'10	19°44	25°59	7°58	18° 4	11°59	1♁23	7♁ 3	28♁15	3° 2	12°58	13° 3	6°23	9♁37	
F 3	0 47 44	10° 0'24	4♁ 7	27°28	9°12	18°40	12° 9	1°20	7° 1	27°15	3°R 2	12°59	13° 0	6°30	9°35	
S 4	0 51 40	10°59'40	18° 4	28°57	10°25	19°16	12°18	1°17	6°59	28°14	3° 2	12°59	12°56	6°36	9°33	
S 5	0 55 37	11°58'58	1♁33	0♁24	11°38	19°52	12°28	1°14	6°57	28°14	3° 2	12°59	12°53	6°43	9°30	
M 6	0 59 34	12°58'19	14°38	1°51	12°51	20°28	12°37	1°11	6°56	28°14	3° 2	12°59	12°50	6°49	9°28	
T 7	1 3 30	13°57'42	27°21	3°17	14° 5	21° 4	12°46	1° 8	6°54	28°14	3° 2	12°59	12°47	6°56	9°26	
W 8	1 7 27	14°57'07	9♁45	4°42	15°18	21°41	12°55	1° 6	6°52	28°14	3° 1	12°59	12°44	7° 3	9°24	
T 9	1 11 23	15°56'34	21°55	6° 6	16°32	22°18	13° 5	1° 3	6°50	28°14	3° 1	12°59	12°41	7° 9	9°21	
F 10	1 15 20	16°56'04	3♁54	7°29	17°45	22°55	13°13	1° 1	6°49	28°D14	3° 1	13° 0	12°37	7°16	9°19	
S 11	1 19 16	17°55'36	15°46	8°52	18°59	23°32	13°22	0°58	6°47	28°14	3° 1	13° 0	12°34	7°23	9°17	
S 12	1 23 13	18°55'10	27°34	10°13	20°12	24° 9	13°31	0°56	6°45	28°14	3° 1	13° 1	12°31	7°29	9°15	
M13	1 27 9	19°54'46	9♁20	11°33	21°26	24°47	13°40	0°54	6°44	28°14	3° 1	13°R 1	12°28	7°36	9°13	
T 14	1 31 6	20°54'24	21° 9	12°52	22°40	25°25	13°48	0°51	6°42	28°14	3° 0	13° 1	12°25	7°43	9°11	
W15	1 35 2	21°54'05	3♁ 1	14°10	23°54	26° 3	13°56	0°49	6°41	28°14	3° 0	13° 0	12°22	7°49	9° 9	
T 16	1 38 59	22°53'47	14°58	15°27	25° 8	26°41	14° 5	0°48	6°39	28°14	3° 0	12°59	12°18	7°56	9° 8	
F 17	1 42 56	23°53'31	27° 3	16°42	26°22	27°19	14°13	0°46	6°38	28°14	2°59	12°58	12°15	8° 3	9° 6	
S 18	1 46 52	24°53'17	9♁18	17°56	27°36	27°58	14°21	0°44	6°37	28°15	2°59	12°56	12°12	8° 9	9° 4	
S 19	1 50 49	25°53'05	21°46	19° 8	28°50	28°36	14°29	0°42	6°35	28°15	2°59	12°55	12° 9	8°16	9° 2	
M20	1 54 45	26°52'55	4♁28	20°18	0♁ 4	29°15	14°36	0°41	6°34	28°15	2°58	12°53	12° 6	8°22	9° 1	
T 21	1 58 42	27°52'46	17°28	21°26	1°18	29°54	14°44	0°39	6°33	28°16	2°58	12°52	12° 2	8°29	8°59	
W22	2 2 38	28°52'39	0♁48	22°32	2°32	0♁33	14°51	0°38	6°32	28°16	2°58	12°D52	11°59	8°36	8°57	
T 23	2 6 35	29°52'34	14°30	23°36	3°46	1°12	14°58	0°37	6°31	28°17	2°57	12°52	11°56	8°42	8°56	
F 24	2 10 31	0♁52'30	28°35	24°38	5° 1	1°52	15° 6	0°35	6°29	28°17	2°57	12°53	11°53	8°49	8°54	
S 25	2 14 28	1°52'28	13♁ 3	25°36	6°15	2°31	15°13	0°34	6°28	28°17	2°56	12°55	11°50	8°56	8°53	
S 26	2 18 25	2°52'28	27°49	26°31	7°29	3°11	15°19	0°33	6°27	28°18	2°56	12°56	11°47	9° 2	8°51	
M27	2 22 21	3°52'29	12°V49	27°22	8°44	3°50	15°26	0°33	6°26	28°19	2°55	12°R56	11°43	9° 9	8°50	
T 28	2 26 18	4°52'32	27°56	28°10	9°58	4°30	15°33	0°32	6°25	28°19	2°55	12°56	11°40	9°16	8°49	
W29	2 30 14	5°52'37	12♁59	28°52	11°13	5°10	15°39	0°31	6°25	28°20	2°54	12°54	11°37	9°22	8°48	
T 30	2 34 11	6°52'43	27°50	29°30	12°27	5°50	15°45	0°31	6°24	28°20	2°53	12°51	11°34	9°29	8°46	
F 31	2 38 7	7♁52'52	12♁22	0♁ 3	13♁42	6♁30	15♁51	0♁30	6♁23	28♁21	2♁53	12°V48	11°V31	9♁36	8♁45	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁	♁
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
W 1	3s12	15n 4	1n59	10s12	0s45	10n 3	1n 5	25s22	3s 4	17n47	0n31	12s46	1s54	9s40	0s48	20s18
T 2	3 35	20 46	3 11	10 52	0 52	9 38	1 7	25 16	3 2	17 44	0 32	12 47	1 54	9 41	0 48	20 18
F 3	3 58	25 4	4 8	11 31	0 59	9 12	1 9	25 9	3 0	17 42	0 32	12 48	1 54	9 42	0 48	20 18
S 4	4 22	27 44	4 48	12 9	1 6	8 46	1 11	25 2	2 58	17 39	0 32	12 49	1 54	9 43	0 48	20 18
S 5	4 45	28 40	5 12	12 46	1 13	8 20	1 13	24 54	2 56	17 37	0 32	12 50	1 54	9 43	0 48	20 18
M 6	5 8	27 57	5 18	13 23	1 20	7 54	1 15	24 47	2 54	17 34	0 32	12 51	1 54	9 44	0 48	20 18
T 7	5 31	25 46	5 8	13 59	1 27	7 27	1 17	24 39	2 52	17 32	0 32	12 52	1 54	9 44	0 48	20 18
W 8	5 54	22 24	4 44	14 35	1 33	7 1	1 18	24 32	2 50	17 29	0 33	12 53	1 54	9 45	0 48	20 18
T 9	6 17	18 8	4 8	15 9	1 40	6 33	1 20	24 24	2 48	17 27	0 33	12 53	1 54	9 46	0 48	20 18
F 10	6 40	13 13	3 21	15 43	1 46	6 6	1 22	24 16	2 46	17 24	0 33	12 54	1 54	9 46	0 48	20 18
S 11	7 3	7 52	2 26	16 15	1 53	5 39	1 23	24 7	2 44	17 22	0 33	12 55	1 53	9 47	0 48	20 18
S 12	7 25	2 16	1 25	16 47	1 59	5 11	1 25	23 59	2 42	17 20	0 33	12 56	1 53	9 47	0 48	20 18
M13	7 48	3s24	0 20	17 18	2 5	4 43	1 26	23 50	2 40	17 17	0 34	12 57	1 53	9 48	0 48	20 18
T 14	8 11	8 58	0s45	17 48	2 11	4 15	1 27	23 41	2 38	17 15	0 34	12 57	1 53	9 49	0 48	20 18
W15	8 33	14 14	1 49	18 17	2 16	3 47	1 28	23 32	2 36	17 13	0 34	12 58	1 53	9 49	0 48	20 18
T 16	8 55	19 2	2 48	18 45	2 21	3 19	1 30	23 23	2 34	17 11	0 34	12 58	1 53	9 50	0 48	20 18
F 17	9 17	23 7	3 41	19 12	2 26	2 50	1 31	23 14	2 33	17 9	0 34	12 59	1 53	9 50	0 48	20 18
S 18	9 39	26 14	4 24	19 37	2 31	2 22	1 32	23 4	2 31	17 6	0 34	12 59	1 53	9 51	0 48	20 18
S 19	10 1	28 8	4 55	20 2	2 35	1 53	1 33	22 54	2 29	17 4	0 35	13 0	1 53	9 51	0 48	20 18
M20	10 23	28 38	5 13	20 25	2 39	1 24	1 33	22 44	2 27	17 2	0 35	13 0	1 53	9 51	0 48	20 18
T 21	10 44	27 33	5 16	20 47	2 43	0 55	1 34	22 34	2 25	17 0	0 35	13 1	1 52	9 52	0 48	20 18
W22	11 6	24 55	5 1	21 7	2 46	0 26	1 35	22 24	2 23	16 58	0 35	13 1	1 52	9 52	0 48	20 18
T 23	11 27	20 48	4 30	21 26	2 49	0s 3	1 35	22 14	2 21	16 56	0 35	13 2	1 52	9 53	0 48	20 18
F 24	11 48	15 26	3 41	21 44	2 51	0 32	1 36	22 3	2 19	16 54	0 36	13 2	1 52	9 53	0 48	20 18
S 25	12 9	9 6	2 38	22 0	2 53	1 1	1 36	21 52	2 18	16 53	0 36	13 2	1 52	9 53	0 48	20 18
S 26	12 30	2 8	1 23	22 14	2 54	1 30	1 37	21 41	2 16	16 51	0 36	13 2	1 52	9 54	0 48	20 18
M27	12 50	5n 4	0 1	22 26	2 55	1 59	1 37	21 30	2 14	16 49	0 36	13 3	1 52	9 54	0 48	20 18
T 28	13 10	12 2	1n22	22 37	2 54	2 28	1 37	21 19	2 12	16 47	0 36	13 3	1 52	9 54	0 47	20 18
W29	13 30	18 17	2 38	22 46	2 53	2 57	1 37	21 7	2 10	16 45	0 37	13 3	1 52	9 55	0 47	20 17
T 30	13 50	23 20	3 43	22 52	2 51	3 26	1 37	20 55	2 9	16 44	0 37	13 3	1 51	9 55	0 47	20 17
F 31	14s10	26n48	4n31	22s56	2s48	3s55	1n37	20s44	2s 7	16n42	0n37	13s 3	1s51	9s55	0s47	20s17

Julian Day Number = 2331288.5, Delta T = 23.78 sec
 Ecliptic obliquity = 23°29'05, Nutation = - 0°00'05
 Ayanamsha: Fagan/Bradley = 20°08'40, Lahiri = 19°15'40Greg. Calendar

SWISS EPHEMERIS for the year 1670

NOVEMBER 1670 GC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	2 42 4	8♁53'03	26♁29	0♁29	14♁56	7♁11	15♁57	0°R30	6°R22	28♁22	2°R52	12°R44	11°V28	9♁42	8°R44
S 2	2 46 0	9°53'16	10♁ 8	0°48	16°11	7°51	16° 3	0♁30	6♁22	28°23	2♁52	12°V40	11°24	9°49	8♁43
M 3	2 49 57	10°53'31	23°20	1° 0	17°26	8°31	16° 9	0°30	6°21	28°23	2°51	12°38	11°21	9°56	8°42
T 4	2 53 54	11°53'48	6♁ 6	1°R 3	18°40	9°12	16°14	0°D30	6°20	28°24	2°50	12°37	11°18	10° 2	8°41
W 5	2 57 50	12°54'07	18°31	0°58	19°55	9°53	16°20	0°30	6°20	28°25	2°49	12°D37	11°15	10° 9	8°41
T 6	3 1 47	13°54'27	0♁39	0°43	21°10	10°33	16°25	0°30	6°19	28°26	2°49	12°38	11°12	10°15	8°40
F 7	3 5 43	14°54'50	12°34	0°19	22°25	11°14	16°30	0°30	6°19	28°27	2°48	12°39	11° 8	10°22	8°39
S 8	3 9 40	15°55'15	24°23	29♁44	23°40	11°55	16°35	0°30	6°18	28°28	2°47	12°41	11° 5	10°29	8°38
S 9	3 13 36	16°55'41	6♁ 9	28°59	24°54	12°36	16°39	0°31	6°18	28°29	2°46	12°42	11° 2	10°35	8°38
M10	3 17 33	17°56'09	17°57	28° 4	26° 9	13°17	16°44	0°32	6°18	28°30	2°46	12°R43	10°59	10°42	8°37
T 11	3 21 29	18°56'39	29°49	27° 1	27°24	13°58	16°48	0°32	6°18	28°31	2°45	12°41	10°56	10°49	8°37
W12	3 25 26	19°57'11	11♁49	25°50	28°39	14°40	16°52	0°33	6°17	28°32	2°44	12°37	10°53	10°55	8°36
T 13	3 29 23	20°57'44	23°58	24°33	29°54	15°21	16°56	0°34	6°17	28°33	2°43	12°32	10°49	11° 2	8°36
F 14	3 33 19	21°58'19	6♁18	23°12	1♁ 9	16° 3	17° 0	0°35	6°17	28°34	2°42	12°25	10°46	11° 9	8°36
S 15	3 37 16	22°58'56	18°49	21°51	2°24	16°44	17° 3	0°36	6°D17	28°35	2°41	12°18	10°43	11°15	8°35
S 16	3 41 12	23°59'34	1♁32	20°31	3°39	17°26	17° 7	0°37	6°17	28°37	2°41	12°10	10°40	11°22	8°35
M17	3 45 9	25° 0'13	14°28	19°16	4°55	18° 7	17°10	0°39	6°17	28°38	2°40	12° 3	10°37	11°29	8°35
T 18	3 49 5	26° 0'53	27°36	18° 8	6°10	18°49	17°13	0°40	6°17	28°39	2°39	11°58	10°34	11°35	8°35
W19	3 53 2	27° 1'35	10♁59	17° 8	7°25	19°31	17°16	0°42	6°17	28°40	2°38	11°55	10°30	11°42	8°D35
T 20	3 56 58	28° 2'17	24°37	16°19	8°40	20°13	17°19	0°43	6°18	28°42	2°37	11°D53	10°27	11°48	8°35
F 21	4 0 55	29° 3'01	8♁30	15°40	9°55	20°55	17°21	0°45	6°18	28°43	2°36	11°54	10°24	11°55	8°35
S 22	4 4 52	0♁ 3'45	22°39	15°14	11°10	21°37	17°23	0°47	6°18	28°44	2°35	11°55	10°21	12° 2	8°35
S 23	4 8 48	1° 4'31	7°V 3	14°58	12°25	22°19	17°25	0°49	6°19	28°46	2°34	11°R56	10°18	12° 8	8°35
M24	4 12 45	2° 5'17	21°39	14°D54	13°41	23° 1	17°27	0°51	6°19	28°47	2°33	11°55	10°14	12°15	8°36
T 25	4 16 41	3° 6'04	6♁23	15° 1	14°56	23°43	17°29	0°53	6°20	28°49	2°32	11°53	10°11	12°22	8°36
W26	4 20 38	4° 6'53	21° 9	15°18	16°11	24°25	17°31	0°55	6°20	28°50	2°31	11°48	10° 8	12°28	8°36
T 27	4 24 34	5° 7'43	5♁49	15°43	17°26	25° 7	17°32	0°58	6°21	28°52	2°30	11°41	10° 5	12°35	8°37
F 28	4 28 31	6° 8'34	20°15	16°17	18°42	25°49	17°33	1° 0	6°21	28°53	2°29	11°32	10° 2	12°42	8°37
S 29	4 32 28	7° 9'26	4♁22	16°58	19°57	26°32	17°34	1° 3	6°22	28°55	2°27	11°23	9°59	12°48	8°38
S 30	4 36 24	8♁10'19	18♁ 4	17♁46	21♁12	27♁14	17♁35	1♁ 6	6♁23	28♁56	2♁26	11°V14	9°V55	12♁55	8♁39

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	14s29	28n28	5n 2	22s57	2s44	4s24	1n37	20s32	2s 5	16n41	0n37	13s 3	1s51	9s55	0s47	20s17	0n15	19n 7	4s21	5n 2	4n32	3s42	3s34	5n 7
S 2	14 48	28 19	5 14	22 56	2 38	4 53	1 37	20 19	2 3	16 39	0 37	13 3	1 51	9 56	0 47	20 17	0 15	19 7	4 21	5 1	4 31	3 46	3 35	5 7
M 3	15 7	26 32	5 9	22 52	2 32	5 22	1 37	20 7	2 1	16 38	0 38	13 3	1 51	9 56	0 47	20 17	0 15	19 7	4 21	5 0	4 30	3 49	3 35	5 6
T 4	15 26	23 26	4 48	22 45	2 24	5 20	1 37	19 55	2 0	16 36	0 38	13 3	1 51	9 56	0 47	20 17	0 15	19 6	4 21	4 59	4 29	3 53	3 36	5 6
W 5	15 44	19 20	4 15	22 35	2 14	6 19	1 36	19 42	1 58	16 35	0 38	13 3	1 51	9 56	0 47	20 17	0 15	19 6	4 21	4 59	4 27	3 56	3 36	5 6
T 6	16 3	14 33	3 30	22 21	2 3	6 48	1 36	19 29	1 56	16 33	0 38	13 2	1 51	9 56	0 47	20 16	0 15	19 6	4 21	5 0	4 26	4 0	3 37	5 5
F 7	16 20	9 17	2 38	22 3	1 51	7 16	1 35	19 16	1 54	16 32	0 39	13 2	1 50	9 57	0 47	20 16	0 15	19 6	4 21	5 1	4 25	4 3	3 38	5 5
S 8	16 38	3 45	1 39	21 42	1 36	7 44	1 35	19 3	1 53	16 31	0 39	13 2	1 50	9 57	0 47	20 16	0 15	19 6	4 21	5 1	4 24	4 6	3 38	5 5
S 9	16 55	1s54	0 36	21 17	1 20	8 12	1 34	18 50	1 51	16 30	0 39	13 2	1 50	9 57	0 47	20 16	0 15	19 6	4 21	5 2	4 22	4 10	3 39	5 4
M10	17 12	7 30	0s29	20 48	1 3	8 40	1 33	18 36	1 49	16 28	0 39	13 1	1 50	9 57	0 47	20 16	0 15	19 6	4 21	5 2	4 21	4 13	3 39	5 4
T 11	17 29	12 52	1 32	20 15	0 44	9 8	1 32	18 23	1 48	16 27	0 39	13 1	1 50	9 57	0 47	20 15	0 15	19 6	4 21	5 1	4 20	4 17	3 40	5 3
W12	17 46	17 49	2 32	19 39	0 25	9 35	1 32	18 9	1 46	16 26	0 40	13 0	1 50	9 57	0 47	20 15	0 15	19 6	4 21	5 0	4 19	4 20	3 40	5 3
T 13	18 2	22 7	3 26	19 1	0 4	10 3	1 31	17 55	1 44	16 25	0 40	13 0	1 50	9 57	0 47	20 15	0 15	19 6	4 21	4 58	4 17	4 23	3 41	5 3
F 14	18 18	25 31	4 10	18 21	0n16	10 30	1 30	17 41	1 42	16 24	0 40	13 0	1 49	9 57	0 47	20 15	0 15	19 6	4 21	4 55	4 16	4 27	3 41	5 2
S 15	18 33	27 44	4 44	17 40	0 37	10 57	1 29	17 27	1 41	16 24	0 40	12 59	1 49	9 57	0 47	20 15	0 15	19 6	4 21	4 52	4 15	4 30	3 42	5 2
S 16	18 48	28 32	5 4	17 0	0 57	11 23	1 28	17 13	1 39	16 23	0 40	12 58	1 49	9 57	0 47	20 14	0 15	19 6	4 21	4 49	4 14	4 34	3 42	5 2
M17	19 3	27 49	5 9	16 22	1 15	11 50	1 26	16 58	1 37	16 22	0 41	12 58	1 49	9 57	0 47	20 14	0 15	19 6	4 21	4 46	4 12	4 37	3 42	5 1
T 18	19 18	25 32	4 58	15 47	1 32	12 16	1 25	16 44	1 36	16 21	0 41	12 57	1 49	9 57	0 47	20 14	0 15	19 6	4 21	4 44	4 11	4 41	3 43	5 1
W19	19 32	21 50	4 30	15 16	1 47	12 41	1 24	16 29	1 34	16 21	0 41	12 57	1 49	9 57	0 47	20 14	0 15	19 6	4 21	4 43	4 10	4 44	3 43	5 1
T 20	19 46	16 55	3 48	14 50	2 0	13 7	1 22	16 14	1 33	16 20	0 41	12 56	1 49	9 56	0 47	20 13	0 14	19 7	4 21	4 43	4 9	4 47	3 43	5 0
F 21	19 59	11 2	2 51	14 29	2 11	13 32	1 21	15 59	1 31	16 19	0 42	12 55	1 49	9 56	0 47	20 13	0 14	19 7	4 21	4 43	4 8	4 51	3 44	5 0
S 22	20 12	4 29	1 42	14 12	2 20	13 57	1 20	15 44	1 29	16 19	0 42	12 54	1 48	9 56	0 47	20 13	0 14	19 7	4 21	4 43	4 6	4 54	3 44	5 0
S 23	20 25	2n24	0 26	14 1	2 26	14 21	1 18	15 29	1 28	16 19	0 42	12 53	1 48	9 56	0 46	20 13	0 14	19 7	4 21	4 43	4 5	4 58	3 44	4 59
M24	20 37	9 16	0n52	13 56	2 31	14 45	1 16	15 14	1 26	16 18	0 42	12 53	1 48	9 56	0 46	20 12	0 14	19 7	4 21	4 43	4 4	5 1	3 44	4 59
T 25	20 49	15 41	2 8	13 55	2 34	15 9	1 15	14 58	1 25	16 18	0 43	12 52	1 48	9 56	0 46	20 12	0 14	19 7	4 21	4 42	4 3	5 4	3 45	4 59
W26	21 1	21 13	3 15	13 58	2 36	15 33	1 13	14 43	1 23	16 18	0 43	12 51	1 48	9 55	0 46	20 12	0 14	19 7	4 21	4 41	4 1	5 8	3 45	4 58
T 27	21 12	25 23	4 8	14 5	2 36	15 56	1 11	14 27	1 21	16 17	0 43	12 50	1 48	9 55	0 46	20 12	0 14	19 7	4 21	4 38	4 0	5 11	3 45	4 58
F 28	21 22	27 52	4 45	14 16	2 35	16 18	1 10	14 11	1 20	16 17	0 43	12 49	1 48	9 55	0 46	20 11	0 14	19 7	4 21	4 34	3 59	5 15	3 45	4 58
S 29	21 33	28 28	5 3	14 30	2 33	16 40	1 8	13 55	1 18	16 17	0 44	12 48	1 48	9 55	0 46	20 11	0 14	19 7	4 21	4 31	3 58	5 18	3 45	4 57
S 30	21s43	27n16	5n 3	14s46	2n30	17s 2	1n 6	13s39	1s17	16n17</														

SWISS EPHEMERIS for the year 1670

DECEMBER 1670 GC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
M 1	4 40 21	9°11'14"	1°20'	18♁39	22♁27	27≈56	17♁36	1♁ 8	6♁23	28♁58	2°R25	11°R 6	9°Y52	13♁ 2	8♁39
T 2	4 44 17	10°12'10"	14°11'	19°37'	23°43'	28°39'	17°36'	1°11'	6°24'	28°59'	2♁24	11°Y 0	9°49'	13° 8	8°40
W 3	4 48 14	11°13'07"	26°39'	20°39'	24°58'	29°21'	17°R36	1°14'	6°25'	29° 1'	2°23'	10°57'	9°46'	13°15	8°41
T 4	4 52 10	12°14'05"	8♁49	21°46'	26°13'	0♁ 3	17°36'	1°17'	6°26'	29° 3'	2°22'	10°D55	9°43'	13°22	8°42
F 5	4 56 7	13°15'04"	20°45'	22°55'	27°29'	0°46'	17°36'	1°20'	6°27'	29° 5'	2°21'	10°56'	9°40'	13°28	8°43
S 6	5 0 3	14°16'05"	2♁34	24° 8'	28°44'	1°28'	17°35'	1°23'	6°28'	29° 6'	2°20'	10°56'	9°36'	13°35	8°43
S 7	5 4 0	15°17'06"	14°21'	25°23'	29°59'	2°11'	17°35'	1°27'	6°29'	29° 8'	2°19'	10°R56	9°33'	13°41	8°45
M 8	5 7 57	16°18'09"	26°10'	26°40'	1♁15	2°54'	17°34'	1°30'	6°30'	29°10'	2°17'	10°55'	9°30'	13°48	8°46
T 9	5 11 53	17°19'12"	8♁ 7	27°59'	2°30'	3°36'	17°33'	1°34'	6°31'	29°12'	2°16'	10°51'	9°27'	13°55	8°47
W10	5 15 50	18°20'17"	20°14'	29°19'	3°46'	4°19'	17°32'	1°37'	6°33'	29°13'	2°15'	10°45'	9°24'	14° 1	8°48
T 11	5 19 46	19°21'22"	2♁36	0♁41	5° 1'	5° 1'	17°30'	1°41'	6°34'	29°15'	2°14'	10°36'	9°20'	14° 8	8°49
F 12	5 23 43	20°22'28"	15°12'	2° 4'	6°17'	5°44'	17°29'	1°45'	6°35'	29°17'	2°13'	10°25'	9°17'	14°15	8°51
S 13	5 27 39	21°23'35"	28° 3'	3°29'	7°32'	6°27'	17°27'	1°49'	6°37'	29°19'	2°11'	10°12'	9°14'	14°21	8°52
S 14	5 31 36	22°24'43"	11♁ 8	4°54'	8°47'	7° 9'	17°25'	1°53'	6°38'	29°21'	2°10'	9°59'	9°11'	14°28	8°53
M15	5 35 32	23°25'51"	24°26'	6°20'	10° 3'	7°52'	17°23'	1°57'	6°40'	29°23'	2° 9'	9°47'	9° 8'	14°35	8°55
T 16	5 39 29	24°26'59"	7≈55	7°47'	11°18'	8°35'	17°21'	2° 1'	6°41'	29°25'	2° 8'	9°37'	9° 5'	14°41	8°56
W17	5 43 26	25°28'07"	21♁33	9°14'	12°34'	9°18'	17°18'	2° 5'	6°43'	29°27'	2° 7'	9°30'	9° 1'	14°48	8°58
T 18	5 47 22	26°29'16"	5♁19	10°42'	13°49'	10° 1'	17°15'	2° 9'	6°44'	29°29'	2° 5'	9°26'	8°58'	14°55	9° 0
F 19	5 51 19	27°30'25"	19°13'	12°11'	15° 5'	10°43'	17°12'	2°14'	6°46'	29°31'	2° 4'	9°25'	8°55'	15° 1	9° 1
S 20	5 55 15	28°31'33"	3°Y14	13°40'	16°20'	11°26'	17° 9'	2°18'	6°48'	29°33'	2° 3'	9°25'	8°52'	15° 8	9° 3
S 21	5 59 12	29°32'42"	17°21'	15° 9'	17°35'	12° 9'	17° 6'	2°23'	6°49'	29°35'	2° 2'	9°25'	8°49'	15°15	9° 5
M22	6 3 8	0♁33'51"	1♁35	16°39'	18°51'	12°52'	17° 2'	2°27'	6°51'	29°37'	2° 1'	9°23'	8°46'	15°21	9° 7
T 23	6 7 5	1°34'59"	15°53'	18° 9'	20° 6'	13°35'	16°59'	2°32'	6°53'	29°39'	1°59'	9°19'	8°42'	15°28	9° 9
W24	6 11 1	2°36'08"	0♁11	19°40'	21°22'	14°17'	16°55'	2°37'	6°55'	29°41'	1°58'	9°12'	8°39'	15°34	9°11
T 25	6 14 58	3°37'17"	14°26'	21°11'	22°37'	15° 0'	16°51'	2°41'	6°57'	29°43'	1°57'	9° 3'	8°36'	15°41	9°13
F 26	6 18 55	4°38'26"	28°32'	22°42'	23°53'	15°43'	16°46'	2°46'	6°59'	29°45'	1°56'	8°51'	8°33'	15°48	9°15
S 27	6 22 51	5°39'35"	12♁23	24°14'	25° 8'	16°26'	16°42'	2°51'	7° 1'	29°47'	1°54'	8°38'	8°30'	15°54	9°17
S 28	6 26 48	6°40'44"	25°55'	25°46'	26°24'	17° 9'	16°38'	2°56'	7° 3'	29°49'	1°53'	8°25'	8°26'	16° 1	9°19
M29	6 30 44	7°41'53"	9♁ 7	27°18'	27°39'	17°52'	16°33'	3° 2'	7° 5'	29°51'	1°52'	8°13'	8°23'	16° 8	9°21
T 30	6 34 41	8°43'02"	21°56'	28°51'	28°54'	18°34'	16°28'	3° 7'	7° 7'	29°54'	1°51'	8° 4'	8°20'	16°14	9°23
W31	6 38 37	9♁44'12"	4♁24	0♁24	0♁10	19♁17	16♁23	3♁12	7♁ 9	29♁56	1♁50	7°Y58	8°Y17	16♁21	9♁26

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	21s52	24n34	4n47	15s 4	2n26	17s23	1n 4	13s23	1s15	16n17	0n44	12s46	1s47	9s54	0s46	20s10	0n14	19n 7	4s21	4n24	3n55	5s25	3s45	4n56
T 2	22 1 20 41	4 16	15 25	2 21	17 44	1 2	13 7	1 14	16 17	0 44	12 45	1 47	9 54	0 46	20 10	0 14	19 7	4 21	4 22	3 54	5 28	3 45	4 56	
W 3	22 10 16 0	3 34	15 46	2 16	18 4	1 0	12 51	1 12	16 18	0 44	12 43	1 47	9 53	0 46	20 10	0 14	19 7	4 21	4 20	3 53	5 32	3 45	4 56	
T 4	22 18 10 48	2 43	16 9	2 10	18 24	0 58	12 35	1 11	16 18	0 45	12 42	1 47	9 53	0 46	20 9	0 14	19 7	4 21	4 20	3 51	5 35	3 45	4 55	
F 5	22 26 5 18	1 46	16 33	2 4	18 44	0 56	12 18	1 9	16 18	0 45	12 41	1 47	9 52	0 46	20 9	0 14	19 7	4 21	4 20	3 50	5 39	3 45	4 55	
S 6	22 33 0s20	0 45	16 57	1 57	19 2	0 54	12 2	1 8	16 18	0 45	12 40	1 47	9 52	0 46	20 9	0 14	19 7	4 21	4 20	3 49	5 42	3 45	4 55	
S 7	22 40 5 57	0s18	17 22	1 50	19 21	0 52	11 45	1 6	16 19	0 45	12 38	1 47	9 52	0 46	20 8	0 14	19 7	4 21	4 20	3 48	5 45	3 45	4 54	
M 8	22 47 11 22	1 20	17 46	1 43	19 38	0 50	11 28	1 5	16 19	0 46	12 37	1 46	9 51	0 46	20 8	0 14	19 7	4 21	4 20	3 46	5 49	3 45	4 54	
T 9	22 53 16 26	2 19	18 11	1 36	19 56	0 47	11 11	1 3	16 20	0 46	12 36	1 46	9 51	0 46	20 8	0 14	19 7	4 21	4 18	3 45	5 52	3 45	4 54	
W10	22 58 20 56	3 13	18 36	1 29	20 12	0 45	10 55	1 2	16 20	0 46	12 34	1 46	9 50	0 46	20 7	0 14	19 7	4 21	4 16	3 44	5 55	3 45	4 53	
T 11	23 3 24 37	3 58	19 1	1 21	20 28	0 43	10 38	1 1	16 21	0 46	12 33	1 46	9 50	0 46	20 7	0 14	19 7	4 21	4 12	3 43	5 59	3 45	4 53	
F 12	23 8 27 11	4 33	19 25	1 13	20 44	0 41	10 21	0 59	16 22	0 47	12 31	1 46	9 49	0 46	20 7	0 14	19 7	4 21	4 8	3 41	6 2	3 45	4 53	
S 13	23 12 28 23	4 55	19 49	1 6	20 59	0 38	10 3	0 58	16 23	0 47	12 30	1 46	9 49	0 46	20 6	0 14	19 7	4 21	4 3	3 40	6 6	3 44	4 52	
S 14	23 16 28 1	5 1	20 12	0 58	21 13	0 36	9 46	0 56	16 23	0 47	12 28	1 46	9 48	0 46	20 6	0 14	19 7	4 21	3 58	3 39	6 9	3 44	4 52	
M15	23 19 26 3	4 52	20 35	0 50	21 27	0 34	9 29	0 55	16 24	0 47	12 27	1 46	9 47	0 46	20 5	0 14	19 7	4 21	3 53	3 38	6 12	3 44	4 52	
T 16	23 22 22 36	4 26	20 57	0 43	21 40	0 31	9 12	0 54	16 25	0 48	12 25	1 46	9 47	0 46	20 5	0 14	19 7	4 21	3 49	3 36	6 16	3 44	4 51	
W17	23 24 17 53	3 45	21 18	0 35	21 52	0 29	8 54	0 52	16 26	0 48	12 24	1 45	9 46	0 46	20 5	0 14	19 8	4 21	3 46	3 35	6 19	3 43	4 51	
T 18	23 26 12 13	2 50	21 38	0 28	22 4	0 26	8 37	0 51	16 27	0 48	12 22	1 45	9 46	0 46	20 4	0 14	19 8	4 21	3 45	3 34	6 23	3 43	4 51	
F 19	23 28 5 53	1 45	21 58	0 20	22 15	0 24	8 19	0 50	16 28	0 48	12 20	1 45	9 45	0 46	20 4	0 14	19 8	4 20	3 44	3 32	6 26	3 43	4 50	
S 20	23 29 0n47	0 33	22 16	0 13	22 25	0 22	8 2	0 48	16 30	0 49	12 19	1 45	9 44	0 45	20 3	0 14	19 8	4 20	3 44	3 31	6 29	3 42	4 50	
S 21	23 29 7 28	0n42	22 34	0 5	22 35	0 19	7 44	0 47	16 31	0 49	12 17	1 45	9 44	0 45	20 3	0 14	19 8	4 20	3 44	3 30	6 33	3 42	4 50	
M22	23 29 13 50	1 54	22 51	0s 2	22 44	0 17	7 27	0 46	16 32	0 49	12 15	1 45	9 43	0 45	20 3	0 14	19 8	4 20	3 44	3 29	6 36	3 42	4 49	
T 23	23 28 19 29	3 0	23 6	0 9	22 53	0 14	7 9	0 44	16 34	0 49	12 13	1 45	9 42	0 45	20 2	0 14	19 8	4 20	3 42	3 27	6 40	3 41	4 49	
W24	23 28 24 2	3 54	23 21	0 16	23 0	0 12	6 51	0 43	16 35	0 49	12 11	1 45	9 41	0 45	20 2	0 14	19 8	4 20	3 39	3 26	6 43	3 41	4 49	
T 25	23 26 27 6	4 33	23 34	0 23	23 7	0 9	6 33	0 42	16 36	0 50	12 10	1 45	9 41	0 45	20 1	0 14	19 8	4 20	3 36	3 25	6 46	3 40	4 49	
F 26	23 24 28 24	4 55	23 47	0 30	23 14	0 7	6 16	0 40	16 38	0 50	12 8	1 45	9 40	0 45	20 1	0 14	19 8	4 20	3 31	3 24	6 50	3 40	4 48	
S 27	23 22 27 52	4 59	23 58	0 36	23 19	0 4	5 58	0 39	16 39	0 50	12 6	1 44	9 39	0 45	20 0	0 14	19 8	4 20	3 26	3 22	6 53	3 39	4 48	
S 28	23 19 25 41	4 46	24 8	0 43	23 24	0 2	5 40	0 38	16 41	0 50	12 4	1 44	9 38	0 45	20 0	0 14	19 8	4 20	3 21	3 21	6 56	3 39	4 48	
M29	23 16 22 10	4 18	24 17	0 49	23 28	0s 0	5 22	0 37	16 43	0 51	12 2	1 44	9 38	0 45	20 0	0 14	19 8	4 20	3 16	3 20	7 0	3 38	4 47	
T 30	23 12 17 39	3 38	24 24	0 55	23 32	0 3	5 4	0 35	16 44	0 51														