

SWISS EPHEMERIS for the year 1870

JANUARY 1870

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	6 41 46	10 ²⁵ 50	27 ⁴⁶ 46	21 ³ 6	26 ²⁶ 21	26 ³ 13	11°R 1	22 ⁷ 0	20°R21	16 ⁷ 46	16°R11	28°R28	29 ²² 22	13 ⁷ 40	29 ⁷ 40
S 2	6 45 43	11°27'02	11 ³ 24	22°44	27°12	27° 0	11 ⁸ 0	22° 6	20 ² 19	16°47	16 ⁸ 10	28 ²⁶ 26	29°19	13°47	29°41
M 3	6 49 39	12°28'13	24°45	24°21	28° 1	27°47	11° 0	22°13	20°16	16°47	16° 9	28°D25	29°16	13°53	29°43
T 4	6 53 36	13°29'24	7 ⁴⁸ 48	25°59	28°50	28°34	10°59	22°20	20°13	16°47	16° 9	28°25	29°13	14° 0	29°44
W 5	6 57 32	14°30'35	20°31	27°36	29°38	29°21	10°D59	22°27	20°11	16°47	16° 8	28°26	29° 9	14° 7	29°45
T 6	7 1 29	15°31'45	2 ⁵⁸ 58	29°12	0 ²⁵ 25	0 ⁸ 8	10°59	22°34	20° 8	16°48	16° 8	28°28	29° 6	14°14	29°47
F 7	7 5 25	16°32'55	15°10	0 ⁴⁹ 49	1°12	0°55	11° 0	22°40	20° 6	16°48	16° 7	28°29	29° 3	14°20	29°48
S 8	7 9 22	17°34'05	27°11	2°24	1°57	1°43	11° 0	22°47	20° 3	16°48	16° 7	28°30	29° 0	14°27	29°50
S 9	7 13 19	18°35'13	9 ⁷ 7	3°58	2°41	2°30	11° 1	22°54	20° 0	16°49	16° 6	28°30	28°57	14°34	29°52
M10	7 17 15	19°36'22	20°57	5°31	3°24	3°17	11° 2	23° 0	19°58	16°49	16° 6	28°R31	28°54	14°40	29°53
T 11	7 21 12	20°37'30	2 ⁵¹ 51	7° 3	4° 6	4° 4	11° 3	23° 7	19°55	16°50	16° 6	28°30	28°50	14°47	29°55
W12	7 25 8	21°38'37	14°54	8°33	4°47	4°51	11° 4	23°13	19°53	16°50	16° 5	28°30	28°47	14°54	29°57
T 13	7 29 5	22°39'44	27° 7	10° 0	5°26	5°38	11° 6	23°20	19°50	16°51	16° 5	28°29	28°44	15° 1	29°58
F 14	7 33 1	23°40'49	9 ³⁶ 36	11°25	6° 5	6°26	11° 7	23°26	19°47	16°51	16° 4	28°28	28°41	15° 7	0 ⁷ 0
S 15	7 36 58	24°41'55	22°24	12°46	6°42	7°13	11° 9	23°33	19°45	16°52	16° 4	28°28	28°38	15°14	0° 2
S 16	7 40 54	25°42'59	5 ³⁰ 30	14° 4	7°17	8° 0	11°11	23°39	19°42	16°53	16° 4	28°27	28°34	15°21	0° 4
M17	7 44 51	26°44'03	18°57	15°17	7°52	8°48	11°14	23°46	19°40	16°53	16° 3	28°27	28°31	15°27	0° 6
T 18	7 48 48	27°45'07	2 ⁴¹ 41	16°25	8°24	9°35	11°16	23°52	19°37	16°54	16° 3	28°D27	28°28	15°34	0° 8
W19	7 52 44	28°46'09	16°41	17°26	8°55	10°22	11°19	23°58	19°34	16°55	16° 3	28°R27	28°25	15°41	0°10
T 20	7 56 41	29°47'11	0 ⁵³ 53	18°21	9°25	11°10	11°22	24° 4	19°32	16°55	16° 3	28°27	28°22	15°48	0°12
F 21	8 0 37	0 ⁴⁸ 48	15°12	19° 8	9°53	11°57	11°25	24°10	19°29	16°56	16° 3	28°27	28°19	15°54	0°14
S 22	8 4 34	1°49'14	29°34	19°47	10°19	12°44	11°28	24°17	19°27	16°57	16° 2	28°27	28°15	16° 1	0°17
S 23	8 8 30	2°50'14	13 ⁵⁴ 54	20°16	10°43	13°32	11°32	24°23	19°24	16°58	16° 2	28°26	28°12	16° 8	0°19
M24	8 12 27	3°51'14	28°10	20°35	11° 6	14°19	11°35	24°29	19°22	16°59	16° 2	28°D26	28° 9	16°14	0°21
T 25	8 16 23	4°52'13	12 ¹⁸ 18	20°R43	11°26	15° 6	11°39	24°35	19°19	17° 0	16° 2	28°26	28° 6	16°21	0°23
W26	8 20 20	5°53'12	26°16	20°40	11°45	15°54	11°43	24°41	19°17	17° 1	16° 2	28°27	28° 3	16°28	0°26
T 27	8 24 17	6°54'11	10 ⁴ 4	20°25	12° 2	16°41	11°48	24°47	19°14	17° 2	16° 2	28°27	27°59	16°35	0°28
F 28	8 28 13	7°55'08	23°41	19°59	12°16	17°29	11°52	24°52	19°12	17° 3	16° 2	28°28	27°56	16°41	0°31
S 29	8 32 10	8°56'05	7 ⁵ 5	19°23	12°29	18°16	11°57	24°58	19° 9	17° 4	16° 2	28°29	27°53	16°48	0°33
S 30	8 36 6	9°57'01	20°17	18°36	12°39	19° 4	12° 2	25° 4	19° 7	17° 5	16°D 2	28°30	27°50	16°55	0°36
MB1	8 40 3	10 ⁵⁷ 57	3 ¹⁶ 16	17 ⁴¹ 41	12 ⁴⁷ 47	19 ⁵¹ 51	12 ⁷ 7	25 ¹¹⁰ 110	19 ²⁵ 25	17 ⁷ 7	16 ² 2	28°R30	27 ²⁴⁷ 247	17 ² 2	0 ⁷ 38

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♁		♁		
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	
S 1	23s 3	20s45	2n41	23s55	2s 9	13s18	0s36	22s 0	1s 6	14n 5	1s 6	22s 0	1n13	22n23	0n29	5n 4	1s40	1n58	15s20	20n29	20n18	0n50	2n41 3n 4
S 2	22 58	21 26	1 33	23 39	2 8	12 54	0 29	21 51	1 6	14 5	1 6	22 0	1 13	22 24	0 29	5 4	1 40	1 58	15 20	20 29	20 18	0 52	2 41 3 3
M 3	22 52	20 51	0 20	23 21	2 7	12 30	0 21	21 42	1 6	14 6	1 6	22 0	1 13	22 24	0 29	5 4	1 40	1 58	15 20	20 29	20 19	0 54	2 41 3 3
T 4	22 46	19 10	0s52	23 1	2 5	12 6	0 14	21 32	1 6	14 6	1 6	22 1	1 13	22 25	0 29	5 4	1 40	1 58	15 19	20 29	20 20	0 57	2 41 3 3
W 5	22 40	16 33	1 59	22 40	2 3	11 42	0 6	21 22	1 6	14 6	1 5	22 1	1 13	22 25	0 29	5 4	1 40	1 58	15 19	20 29	20 20	0 59	2 42 3 3
T 6	22 33	13 13	3 0	22 17	2 0	11 18	0n 2	21 12	1 6	14 6	1 5	22 2	1 13	22 25	0 29	5 4	1 40	1 59	15 19	20 29	20 21	1 2	2 42 3 2
F 7	22 26	9 24	3 51	21 53	1 56	10 53	0 11	21 2	1 6	14 7	1 5	22 2	1 13	22 26	0 29	5 4	1 39	1 59	15 19	20 29	20 22	1 4	2 43 3 2
S 8	22 18	5 16	4 31	21 27	1 52	10 29	0 19	20 52	1 6	14 7	1 4	22 2	1 13	22 26	0 29	5 5	1 39	1 59	15 18	20 29	20 22	1 6	2 43 3 2
S 9	22 10	0 59	4 59	21 0	1 47	10 5	0 28	20 41	1 6	14 8	1 4	22 3	1 13	22 27	0 29	5 5	1 39	1 59	15 18	20 28	20 23	1 9	2 43 3 2
M10	22 1	3n19	5 14	20 32	1 41	9 41	0 37	20 30	1 6	14 8	1 4	22 3	1 13	22 27	0 29	5 5	1 39	1 59	15 18	20 28	20 24	1 11	2 44 3 2
T 11	21 52	7 31	5 16	20 3	1 35	9 17	0 47	20 19	1 6	14 9	1 3	22 4	1 13	22 27	0 29	5 5	1 39	1 59	15 17	20 28	20 24	1 13	2 44 3 1
W12	21 43	11 28	5 4	19 33	1 27	8 54	0 56	20 8	1 6	14 9	1 3	22 4	1 13	22 28	0 29	5 6	1 39	2 0	15 17	20 29	20 25	1 16	2 45 3 1
T 13	21 33	15 1	4 38	19 1	1 19	8 30	1 6	19 56	1 6	14 10	1 3	22 4	1 13	22 28	0 29	5 6	1 39	2 0	15 17	20 29	20 26	1 18	2 45 3 1
F 14	21 23	17 58	3 59	18 29	1 10	8 7	1 16	19 45	1 6	14 11	1 3	22 5	1 13	22 29	0 29	5 6	1 39	2 0	15 16	20 29	20 26	1 21	2 46 3 1
S 15	21 12	20 7	3 7	17 57	1 0	7 44	1 26	19 33	1 6	14 12	1 2	22 5	1 13	22 29	0 29	5 6	1 39	2 0	15 16	20 29	20 27	1 23	2 46 3 0
S 16	21 1	21 17	2 4	17 24	0 49	7 21	1 37	19 20	1 6	14 13	1 2	22 5	1 13	22 29	0 29	5 7	1 39	2 0	15 16	20 29	20 28	1 25	2 47 3 0
M17	20 49	21 15	0 53	16 51	0 37	6 58	1 47	19 8	1 6	14 14	1 2	22 5	1 13	22 30	0 29	5 7	1 39	2 1	15 15	20 29	20 28	1 28	2 48 3 0
T 18	20 37	19 57	0n23	16 19	0 24	6 36	1 58	18 55	1 6	14 15	1 1	22 6	1 13	22 30	0 29	5 7	1 39	2 1	15 15	20 29	20 29	1 30	2 48 3 0
W19	20 25	17 26	1 39	15 47	0 11	6 14	2 10	18 43	1 6	14 16	1 1	22 6	1 13	22 30	0 29	5 8	1 39	2 1	15 15	20 29	20 30	1 32	2 49 3 0
T 20	20 13	13 49	2 50	15 16	0n 4	5 52	2 21	18 30	1 6	14 17	1 1	22 6	1 13	22 31	0 29	5 8	1 39	2 1	15 14	20 29	20 30	1 35	2 49 2 59
F 21	19 59	9 23	3 51	14 47	0 19	5 31	2 33	18 16	1 6	14 18	1 0	22 7	1 13	22 31	0 29	5 8	1 39	2 2	15 14	20 29	20 31	1 37	2 50 2 59
S 22	19 46	4 25	4 38	14 20	0 36	5 10	2 45	18 3	1 6	14 20	1 0	22 7	1 13	22 32	0 29	5 9	1 39	2 2	15 14	20 29	20 31	1 40	2 51 2 59
S 23	19 32	0s46	5 7	13 54	0 53	4 50	2 57	17 49	1 6	14 21	1 0	22 7	1 13	22 32	0 29	5 9	1 39						

SWISS EPHEMERIS for the year 1870

FEBRUARY 1870

00:00 UT

Table with 16 columns representing celestial parameters and 28 rows representing days from T 1 to M28.

Table with 16 columns representing celestial parameters in declination and latitude (decl, lat) and 28 rows representing days from T 1 to M28.

Julian Day Number = 2404094.5, Delta T = 1.39 sec
Ecliptic obliquity = 23°27'18", Nutation = - 0°00'14"
Ayanamsha: Fagan/Bradley = 22°55'34", Lahiri = 22°02'34"

SWISS EPHEMERIS for the year 1870

MARCH 1870
00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♃	♄	♆	♇	♈	♏
T 1	10 34 23	10♋14'04	24♉54	13♌ 9	1°R38	12♋46	15♉42	27♌25	18°R10	17♌51	16♉12	27°R54	26♉15	20♌16	2♌ 7	
W 2	10 38 19	11°14'15	7♋12	14°11	1♋ 5	13°33	15°51	27°28	18♉ 9	17°53	16°12	27♉49	26°11	20°23	2°11	
T 3	10 42 16	12°14'24	19°21	15°16	0°33	14°20	16° 1	27°32	18° 7	17°55	16°13	27°42	26° 8	20°30	2°14	
F 4	10 46 13	13°14'30	1♌24	16°23	0° 4	15° 7	16°11	27°35	18° 6	17°57	16°14	27°33	26° 5	20°37	2°18	
S 5	10 50 9	14°14'35	13°20	17°32	29♌36	15°54	16°20	27°38	18° 5	17°58	16°14	27°24	26° 2	20°43	2°21	
S 6	10 54 6	15°14'38	25°13	18°43	29°10	16°42	16°31	27°41	18° 4	18° 0	16°15	27°14	25°59	20°50	2°25	
M 7	10 58 2	16°14'39	7♌ 4	19°56	28°46	17°29	16°41	27°44	18° 3	18° 2	16°16	27° 7	25°56	20°57	2°28	
T 8	11 1 59	17°14'38	18°57	21°11	28°25	18°16	16°51	27°47	18° 2	18° 4	16°16	27° 0	25°52	21° 4	2°32	
W 9	11 5 55	18°14'34	0♌54	22°28	28° 6	19° 3	17° 1	27°50	18° 1	18° 6	16°17	26°57	25°49	21°10	2°35	
T 10	11 9 52	19°14'29	13° 2	23°46	27°49	19°50	17°12	27°53	18° 0	18° 8	16°18	26°55	25°46	21°17	2°39	
F 11	11 13 48	20°14'21	25°23	25° 6	27°34	20°37	17°22	27°56	17°59	18°10	16°19	26°D55	25°43	21°24	2°42	
S 12	11 17 45	21°14'11	8♌ 4	26°27	27°22	21°24	17°33	27°58	17°58	18°13	16°20	26°55	25°40	21°30	2°46	
S 13	11 21 42	22°13'59	21° 9	27°51	27°13	22°11	17°44	28° 1	17°58	18°15	16°21	26°R56	25°37	21°37	2°49	
M14	11 25 38	23°13'45	4♌41	29°15	27° 6	22°58	17°55	28° 3	17°57	18°17	16°21	26°56	25°33	21°44	2°53	
T 15	11 29 35	24°13'28	18°42	0♋41	27° 1	23°45	18° 5	28° 6	17°56	18°19	16°22	26°54	25°30	21°51	2°57	
W16	11 33 31	25°13'10	3♌11	2° 8	26°D59	24°32	18°17	28° 8	17°56	18°21	16°23	26°50	25°27	21°57	3° 0	
T 17	11 37 28	26°12'49	18° 4	3°37	26°59	25°18	18°28	28°10	17°55	18°23	16°24	26°43	25°24	22° 4	3° 4	
F 18	11 41 24	27°12'25	3♌12	5° 7	27° 2	26° 5	18°39	28°12	17°55	18°25	16°25	26°34	25°21	22°11	3° 7	
S 19	11 45 21	28°12'00	18°26	6°39	27° 7	26°52	18°50	28°14	17°54	18°27	16°26	26°25	25°17	22°17	3°11	
S 20	11 49 17	29°11'34	3♌34	8°11	27°14	27°39	19° 2	28°16	17°54	18°29	16°27	26°16	25°14	22°24	3°15	
M21	11 53 14	0♌11'05	18°28	9°46	27°24	28°25	19°13	28°18	17°54	18°32	16°28	26° 8	25°11	22°31	3°18	
T 22	11 57 10	1°10'34	3♌ 0	11°21	27°35	29°12	19°25	28°19	17°53	18°34	16°29	26° 3	25° 8	22°38	3°22	
W23	12 1 7	2°10'02	17° 6	12°58	27°49	29°59	19°36	28°21	17°53	18°36	16°30	26° 0	25° 5	22°44	3°26	
T 24	12 5 4	3° 9'28	0♋46	14°36	28° 5	0♌45	19°48	28°22	17°53	18°38	16°31	25°D59	25° 2	22°51	3°29	
F 25	12 9 0	4° 8'53	14° 1	16°16	28°23	1°32	20° 0	28°24	17°53	18°40	16°32	25°59	24°58	22°58	3°33	
S 26	12 12 57	5° 8'16	26°56	17°56	28°43	2°19	20°12	28°25	17°D53	18°43	16°33	25°R59	24°55	23° 5	3°37	
S 27	12 16 53	6° 7'36	9♌33	19°38	29° 4	3° 5	20°24	28°26	17°53	18°45	16°34	25°58	24°52	23°11	3°40	
M28	12 20 50	7° 6'55	21°56	21°22	29°28	3°52	20°36	28°27	17°53	18°47	16°35	25°56	24°49	23°18	3°44	
T 29	12 24 46	8° 6'13	4♋ 9	23° 7	29°53	4°38	20°48	28°28	17°53	18°49	16°36	25°50	24°46	23°25	3°47	
W30	12 28 43	9° 5'28	16°15	24°53	0♋20	5°24	21° 0	28°29	17°53	18°52	16°37	25°41	24°42	23°31	3°51	
T 31	12 32 39	10♌ 4'41	28♋14	26♋41	0♋48	6♌11	21♉13	28♌30	17°54	18♌54	16♉38	25°530	24°539	23♌38	3♌55	

Day	☉		☽		♀		♁		♂		♃		♅		♁		♁		♃		♄		♆	
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
T 1	7s44	15s26	2s21	17s11	0s19	2s45	8n43	7s40	0s58	15n45	0s50	22s12	1n14	22n42	0n29	5n31	1s37	2n17	15s 1	20n36	20n55	3n11	3n29	2n53
W 2	7 21	11 54	3 16	17 3	0 29	3 0	8 39	7 22	0 58	15 48	0 50	22 12	1 14	22 42	0 29	5 31	1 37	2 17	15 1	20 37	20 56	3 13	3 30	2 53
T 3	6 58	7 55	4 2	16 52	0 38	3 14	8 35	7 3	0 58	15 51	0 50	22 12	1 14	22 42	0 29	5 32	1 37	2 17	15 1	20 38	20 56	3 16	3 32	2 52
F 4	6 35	3 40	4 36	16 41	0 47	3 29	8 30	6 45	0 57	15 54	0 50	22 12	1 14	22 43	0 29	5 33	1 37	2 18	15 0	20 40	20 57	3 18	3 33	2 52
S 5	6 12	0n42	4 58	16 28	0 55	3 44	8 25	6 26	0 57	15 57	0 50	22 12	1 14	22 43	0 29	5 34	1 37	2 18	15 0	20 42	20 57	3 21	3 34	2 52
S 6	5 49	5 0	5 7	16 14	1 3	3 59	8 18	6 7	0 57	16 0	0 49	22 12	1 14	22 43	0 29	5 34	1 37	2 19	15 0	20 44	20 58	3 23	3 35	2 52
M 7	5 26	9 7	5 2	15 58	1 11	4 13	8 11	5 49	0 56	16 3	0 49	22 12	1 15	22 43	0 29	5 35	1 37	2 19	14 59	20 45	20 59	3 26	3 37	2 52
T 8	5 3	12 54	4 45	15 41	1 18	4 28	8 4	5 30	0 56	16 6	0 49	22 12	1 15	22 43	0 29	5 36	1 37	2 20	14 59	20 46	20 59	3 28	3 38	2 52
W 9	4 39	16 12	4 15	15 23	1 25	4 42	7 55	5 11	0 55	16 9	0 49	22 12	1 15	22 43	0 29	5 37	1 37	2 20	14 59	20 47	21 0	3 30	3 39	2 52
T 10	4 16	18 51	3 33	15 3	1 32	4 56	7 47	4 52	0 55	16 12	0 49	22 12	1 15	22 43	0 29	5 38	1 37	2 21	14 59	20 47	21 0	3 33	3 41	2 52
F 11	3 52	20 42	2 41	14 42	1 38	5 9	7 37	4 34	0 55	16 15	0 48	22 12	1 15	22 43	0 29	5 38	1 37	2 21	14 58	20 47	21 1	3 35	3 42	2 52
S 12	3 29	21 33	1 39	14 20	1 44	5 22	7 28	4 15	0 54	16 19	0 48	22 12	1 15	22 43	0 29	5 39	1 37	2 22	14 58	20 47	21 1	3 38	3 43	2 51
S 13	3 5	21 17	0 31	13 56	1 49	5 35	7 18	3 56	0 54	16 22	0 48	22 12	1 15	22 44	0 29	5 40	1 37	2 22	14 58	20 47	21 2	3 40	3 45	2 51
M14	2 41	19 46	0n41	13 31	1 54	5 47	7 7	3 37	0 54	16 25	0 48	22 12	1 15	22 44	0 29	5 41	1 37	2 23	14 57	20 47	21 3	3 43	3 46	2 51
T 15	2 18	17 2	1 54	13 5	1 58	5 59	6 57	3 18	0 53	16 28	0 48	22 12	1 15	22 44	0 29	5 42	1 37	2 23	14 57	20 47	21 3	3 45	3 47	2 51
W16	1 54	13 9	3 1	12 38	2 3	6 10	6 46	2 59	0 53	16 31	0 47	22 12	1 15	22 44	0 29	5 42	1 37	2 24	14 57	20 48	21 4	3 47	3 49	2 51
T 17	1 30	8 22	3 58	12 9	2 6	6 20	6 35	2 40	0 52	16 35	0 47	22 11	1 15	22 44	0 29	5 43	1 37	2 24	14 57	20 50	21 4	3 50	3 50	2 51
F 18	1 7	3 0	4 39	11 39	2 9	6 29	6 24	2 21	0 52	16 38	0 47	22 11	1 15	22 44	0 29	5 44	1 37	2 25	14 56	20 51	21 5	3 52	3 51	2 51
S 19	0 43	2s36	5 1	11 7	2 12	6 38	6 13	2 2	0 51	16 41	0 47	22 11	1 15	22 44	0 29	5 45	1 37	2 25	14 56	20 53	21 6	3 55	3 53	2 51
S 20	0 19	7 59	5 1	10 35	2 14	6 47	6 1	1 43	0 51	16 45	0 47	22 11	1 15	22 44	0 29	5 46	1 37	2 26	14 56	20 55	21 6	3 57	3 54	2 51
M21	0n 4	12 50	4 41	10 1	2 16	6 54	5 50	1 24	0 51	16 48	0 46	22 11	1 15	22 44	0 29	5 47	1 37	2 26	14 56	20 56	21 7	4 0	3 56	2 51
T 22	0 28	16 48	4 3	9 26	2 18	7 1	5 38	1 5	0 50	16 51	0 46	22 11	1 15	22 44	0 29	5 47	1 37	2 27	14 55	20 57	21 7	4 2	3 57	2 51
W23	0 52	19 39	3 11	8 50	2 19	7 7	5 27	0 46	0 50	16 54	0 46	22 11	1 15	22 44	0 29	5 48	1 37	2 27	14 55	20 58	21 8	4 4	3 58	2 51
T 24	1 15	21 17	2 10	8 13	2 19	7 12	5 15	0 27	0 49	16 58	0 46	22 11	1 15	22 44	0 29	5 49	1 37	2 28	14 55	20 58	21 8	4 7	4 0	2 51
F 25	1 39	21 40	1 3	7 34	2 19	7 17	5 4	0 8	0 49	17 1	0 46	22 11	1 15	22 44	0 29	5 50	1 37	2 28	14 55	20 58	21 9	4 9	4 1	2 50
S 26	2 3	20 52	0s 5	6 54	2 19	7 21	4 53	0n11	0 48	17 5	0 46	22 11	1 16	22 44	0 29	5 51	1 37	2 29	14 54	20 58	21 10	4 12	4 2	2 50
S 27	2 26	19 1	1 11	6 13	2 18	7 24	4 41	0 30	0 48	17 8	0 45	22 11	1 16	22 44	0 29	5 52	1 37	2 29	14 54	20 58	21 10	4 14	4 4	2 50
M28	2 50	16 18	2 13	5 31	2 17	7 27	4 30	0 49	0 47	17 11	0 45	22 11	1 16	22 44	0 29	5 53	1 37	2 30	14 54	20 59				

SWISS EPHEMERIS for the year 1870

APRIL 1870

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♆	♁	♁	♁	♁	♁
F 1	12 36 36	11°Y 3'52	10°Y 10'	28°X 30'	1°X 18'	6°Y 57'	21°Z 25'	28°X 31'	17°Z 54'	18°Y 56'	16°Z 40'	25°R 17'	24°Z 36'	23°Y 45'	3°Y 58'
S 2	12 40 33	12° 3'01	22° 3'	0°Y 20'	1° 5'0	7°43	21°37	28°31	17°54	18°58	16°41	25°Z 3'	24°33	23°52	4° 2'
S 3	12 44 29	13° 2'09	3° 55'	2°12	2°22	8°30	21°50	28°32	17°55	19° 1'	16°42	24°49	24°30	23°58	4° 5'
M 4	12 48 26	14° 1'14	15°47	4° 5'	2°57	9°16	22° 3'	28°32	17°55	19° 3'	16°43	24°37	24°27	24° 5'	4° 9'
T 5	12 52 22	15° 0'16	27°41	6° 0'	3°32	10° 2'	22°15	28°32	17°56	19° 5'	16°44	24°26	24°23	24°12	4°13
W 6	12 56 19	15°59'17	9°II 41	7°56	4° 9'	10°48	22°28	28°33	17°56	19° 7'	16°45	24°19	24°20	24°18	4°16
T 7	13 0 15	16°58'16	21°48	9°54	4°47	11°34	22°41	28°R 33'	17°57	19°10	16°47	24°14	24°17	24°25	4°20
F 8	13 4 12	17°57'12	4°Z 8	11°52	5°26	12°20	22°53	28°33	17°57	19°12	16°48	24°12	24°14	24°32	4°23
S 9	13 8 8	18°56'06	16°45	13°53	6° 6'	13° 7'	23° 6'	28°33	17°58	19°14	16°49	24°12	24°11	24°39	4°27
S 10	13 12 5	19°54'58	29°44	15°54	6°47	13°52	23°19	28°32	17°59	19°16	16°50	24°12	24° 8'	24°45	4°30
M11	13 16 2	20°53'47	13°Q 8	17°57	7°30	14°38	23°32	28°32	18° 0'	19°19	16°51	24°11	24° 4'	24°52	4°34
T 12	13 19 58	21°52'34	27° 1'	20° 0'	8°13	15°24	23°45	28°32	18° 1'	19°21	16°53	24° 8'	24° 1'	24°59	4°37
W13	13 23 55	22°51'19	11°II 24	22° 5'	8°57	16°10	23°58	28°31	18° 1'	19°23	16°54	24° 3'	23°58	25° 6'	4°41
T 14	13 27 51	23°50'02	2°Z 13	24°11	9°42	16°56	24°11	28°31	18° 2'	19°25	16°55	23°55	23°55	25°12	4°44
F 15	13 31 48	24°48'42	11°Z 23	26°17	10°28	17°42	24°25	28°30	18° 3'	19°28	16°56	23°45	23°52	25°19	4°48
S 16	13 35 44	25°47'20	26°44	28°24	11°15	18°27	24°38	28°29	18° 5'	19°30	16°58	23°34	23°48	25°26	4°51
S 17	13 39 41	26°45'57	12°III 3	0°Z 31	12° 3'	19°13	24°51	28°28	18° 6'	19°32	16°59	23°24	23°45	25°32	4°55
M18	13 43 37	27°44'32	27°11	2°39	12°51	19°59	25° 4'	28°27	18° 7'	19°34	17° 0'	23°14	23°42	25°39	4°58
T 19	13 47 34	28°43'05	11°X 57	4°46	13°41	20°44	25°18	28°26	18° 8'	19°37	17° 2'	23° 7'	23°39	25°46	5° 2'
W20	13 51 31	29°41'36	26°15	6°53	14°31	21°30	25°31	28°25	18° 9'	19°39	17° 3'	23° 3'	23°36	25°53	5° 5'
T 21	13 55 27	0°Z 40'06	10°Z 4	8°59	15°21	22°15	25°45	28°24	18°11	19°41	17° 4'	23° 1'	23°33	25°59	5° 8'
F 22	13 59 24	1°38'34	23°25	11° 3'	16°13	23° 1'	25°58	28°22	18°12	19°43	17° 5'	23°D 1'	23°29	26° 6'	5°12
S 23	14 3 20	2°37'00	6°Z 21	13° 7'	17° 5'	23°46	26°12	28°21	18°13	19°46	17° 7'	23°R 1'	23°26	26°13	5°15
S 24	14 7 17	3°35'25	18°56	15° 9'	17°57	24°31	26°25	28°19	18°15	19°48	17° 8'	23° 0'	23°23	26°20	5°18
M25	14 11 13	4°33'49	1°X 15	17° 8'	18°51	25°17	26°39	28°18	18°16	19°50	17° 9'	22°57	23°20	26°26	5°22
T 26	14 15 10	5°32'10	13°21	19° 6'	19°44	26° 2'	26°52	28°16	18°18	19°52	17°11	22°52	23°17	26°33	5°25
W27	14 19 6	6°30'30	25°20	21° 0'	20°39	26°47	27° 6'	28°14	18°20	19°55	17°12	22°44	23°13	26°40	5°28
T 28	14 23 3	7°28'49	7°Y 14	22°52	21°34	27°32	27°20	28°12	18°21	19°57	17°13	22°33	23°10	26°46	5°31
F 29	14 27 0	8°27'06	19° 6'	24°41	22°29	28°17	27°34	28°10	18°23	19°59	17°15	22°21	23° 7'	26°53	5°34
S 30	14 30 56	9°Z 25'21	0°Z 57	26°Z 27	23°X 25	29°Y 2	27°Z 47	28°X 8	18°Z 25	20°Y 1	17°Z 16	22°Z 8	23°Z 4	27°Y 0	5°Y 38

Day	☉		☽		♀		♁		♂		♃		♅		♁		♆		♁		♁		♁		♁	
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
F 1	4n23	0s25	4s50	2s32	-2s 7	7s29	3n47	2n 4	0s46	17n25	0s45	22s11	1n16	22n44	0n28	5n56	1s37	2n32	14s53	21n 6	21n13	4n26	4n11	2n50		
S 2	4 46	3n58	5 0	1 45	2 3	7 28	3 36	2 23	0 45	17 28	0 44	22 11	1 16	22 44	0 28	5 57	1 37	2 32	14 53	21 8	21 14	4 29	4 12	2 50		
S 3	5 9	8 11	4 56	0 56	1 58	7 26	3 26	2 41	0 45	17 32	0 44	22 11	1 16	22 44	0 28	5 58	1 37	2 33	14 53	21 11	21 14	4 31	4 14	2 50		
M 4	5 32	12 6	4 40	0 7	1 54	7 24	3 15	3 0	0 44	17 35	0 44	22 11	1 16	22 43	0 28	5 58	1 37	2 33	14 53	21 13	21 15	4 34	4 15	2 50		
T 5	5 55	15 34	4 12	0n44	1 48	7 20	3 5	3 19	0 44	17 38	0 44	22 11	1 16	22 43	0 28	5 59	1 37	2 34	14 52	21 15	21 15	4 36	4 16	2 50		
W 6	6 18	18 25	3 32	1 35	1 42	7 17	2 55	3 37	0 43	17 42	0 44	22 11	1 16	22 43	0 28	6 0	1 37	2 34	14 52	21 16	21 16	4 38	4 18	2 50		
T 7	6 40	20 30	2 42	2 27	1 36	7 12	2 45	3 56	0 42	17 45	0 44	22 11	1 16	22 43	0 28	6 1	1 37	2 35	14 52	21 17	21 16	4 41	4 19	2 50		
F 8	7 3	21 40	1 44	3 20	1 29	7 7	2 35	4 14	0 42	17 48	0 43	22 10	1 16	22 43	0 28	6 2	1 37	2 35	14 52	21 17	21 17	4 43	4 21	2 50		
S 9	7 25	21 45	0 39	4 13	1 22	7 1	2 26	4 33	0 41	17 52	0 43	22 10	1 16	22 43	0 28	6 3	1 37	2 36	14 52	21 17	21 17	4 46	4 22	2 50		
S 10	7 48	20 42	0n29	5 7	1 14	6 55	2 16	4 51	0 41	17 55	0 43	22 10	1 16	22 43	0 28	6 4	1 37	2 36	14 51	21 17	21 18	4 48	4 23	2 50		
M11	8 10	18 27	1 38	6 2	1 6	6 48	2 7	5 9	0 40	17 59	0 43	22 10	1 16	22 43	0 28	6 4	1 37	2 37	14 51	21 17	21 19	4 51	4 25	2 50		
T 12	8 32	15 5	2 44	6 57	0 57	6 40	1 58	5 27	0 40	18 2	0 43	22 10	1 17	22 43	0 28	6 5	1 37	2 37	14 51	21 18	21 19	4 53	4 26	2 50		
W13	8 54	10 43	3 42	7 52	0 48	6 32	1 49	5 46	0 39	18 5	0 43	22 10	1 17	22 42	0 28	6 6	1 37	2 37	14 51	21 19	21 20	4 56	4 27	2 50		
T 14	9 15	5 34	4 26	8 48	0 38	6 23	1 40	6 4	0 39	18 9	0 43	22 10	1 17	22 42	0 28	6 7	1 37	2 38	14 51	21 20	21 20	4 58	4 29	2 50		
F 15	9 37	0s 0	4 53	9 43	0 28	6 14	1 32	6 22	0 38	18 12	0 42	22 10	1 17	22 42	0 28	6 8	1 37	2 38	14 51	21 22	21 21	5 0	4 30	2 50		
S 16	9 58	5 39	5 0	10 38	0 18	6 4	1 23	6 39	0 38	18 15	0 42	22 10	1 17	22 42	0 28	6 9	1 37	2 39	14 51	21 24	21 21	5 3	4 32	2 50		
S 17	10 20	10 57	4 45	11 33	0 8	5 53	1 15	6 57	0 37	18 19	0 42	22 10	1 17	22 42	0 28	6 10	1 37	2 39	14 50	21 26	21 22	5 5	4 33	2 50		
M18	10 41	15 29	4 10	12 27	0n 3	5 42	1 7	7 15	0 37	18 22	0 42	22 10	1 17	22 42	0 28	6 10	1 37	2 40	14 50	21 27	21 22	5 8	4 34	2 50		
T 19	11 2	18 57	3 19	13 20	0 14	5 31	0 59	7 33	0 36	18 25	0 42	22 10	1 17	22 41	0 28	6 11	1 37	2 40	14 50	21 28	21 23	5 10	4 36	2 50		
W20	11 22	21 8	2 16	14 13	0 25	5 19	0 51	7 50	0 35	18 29	0 42	22 10	1 17	22 41	0 28	6 12	1 37	2 41	14 50	21 29	21 24	5 13	4 37	2 50		
T 21	11 43	21 57	1 8	15 4	0 36	5 6	0 44	8 8	0 35	18 32	0 42	22 10	1 17	22 41	0 28	6 13	1 37	2 41	14 50	21 29	21 24	5 15	4 38	2 50		
F 22	12 3	21 27	0s 2	15 53	0 46	4 53	0 36	8 25	0 34	18 35	0 41	22 10	1 17	22 41	0 28	6 14	1 37	2 42	14 50	21 29	21 25	5 17	4 40	2 50		
S 23	12 23	19 50	1 10	16 42	0 57	4 40	0 29	8 42	0 34	18 39	0 41	22 10	1 17	22 41	0 28	6 15	1 37	2 42	14 50	21 29	21 25	5 20	4 41	2 50		
S 24	12 43	17 15	2 13	17 28	1 8	4 26	0 22	9 0	0 33	18 42	0 41	22 10	1 17	22 40	0 28	6 15	1 37	2 43	14 50	21 30	21 26	5 22	4 42	2 50		
M25	13 3	13 57	3 7	18 12	1 18	4 11	0 15	9 17	0 33	18 45	0 41	22 10	1 17	22 40	0 28	6 16	1 37	2 43	14 50	21 30	21 26	5 25	4 44	2 50		
T 26	13 23	10 8	3 53	18 54	1 27	3 56	0 8	9 34	0 32	18 48	0 41	22 9	1 17	22 40	0 28	6 17	1 37	2 43	14 49	21 31	21 27	5 27	4 45	2 50		
W27	13 42	5 57	4 27	19 34	1 36	3 41	0 2	9 51	0 31	18 52	0 41	22 9	1 17	22 40	0 28	6 18	1 37	2 44	14 49	21 32	21 27	5 30	4 46	2 50		
T 28	14 1	1 34	4 50	20 12	1 45	3 25	0s 5	10 7</																		

SWISS EPHEMERIS for the year 1870

MAY 1870

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♁	♁	♁	♁	♁
S 1	14 34 53	10 ^h 23'34"	12 ^h 25'50"	28 [°] 9'	24 ^h 21	29 ^h 47	28 ^h 1	28 ^h R 6	18 ^h 27	20 ^h 3	17 ^h 8'17"	21 ^h R54	23 ^h 1	27 ^h 7	5 ^h 41	
M 2	14 38 49	11 ^h 21'46"	24 ^h 46	29 [°] 48'	25 ^h 18	0 ^h 32	28 ^h 15	28 ^h R 4	18 ^h 28	20 ^h 5	17 ^h 19	21 ^h 42	22 ^h 58	27 ^h 13	5 ^h 44	
T 3	14 42 46	12 ^h 19'56"	6 ^h 46	1 ^h 11'22"	26 ^h 15	1 ^h 17	28 ^h 29	28 ^h 1	18 ^h 30	20 ^h 8	17 ^h 20	21 ^h 33	22 ^h 54	27 ^h 20	5 ^h 47	
W 4	14 46 42	13 ^h 18'04"	18 ^h 52	2 ^h 54	27 ^h 13	2 ^h 2	28 ^h 43	27 ^h 59	18 ^h 32	20 ^h 10	17 ^h 21	21 ^h 25	22 ^h 51	27 ^h 27	5 ^h 50	
T 5	14 50 39	14 ^h 16'10"	1 ^h 56	4 ^h 21	28 ^h 11	2 ^h 47	28 ^h 57	27 ^h 56	18 ^h 34	20 ^h 12	17 ^h 23	21 ^h 21	22 ^h 48	27 ^h 33	5 ^h 53	
F 6	14 54 35	15 ^h 14'15"	13 ^h 32	5 ^h 44	29 ^h 9	3 ^h 32	29 ^h 10	27 ^h 54	18 ^h 36	20 ^h 14	17 ^h 24	21 ^h 19	22 ^h 45	27 ^h 40	5 ^h 56	
S 7	14 58 32	16 ^h 12'18"	26 ^h 12	7 ^h 3	0 ^h 7	4 ^h 16	29 ^h 24	27 ^h 51	18 ^h 38	20 ^h 16	17 ^h 26	21 ^h D19	22 ^h 42	27 ^h 47	5 ^h 59	
S 8	15 2 29	17 ^h 10'18"	9 ^h 10	8 ^h 18	1 ^h 8	5 ^h 1	29 ^h 38	27 ^h 48	18 ^h 41	20 ^h 18	17 ^h 27	21 ^h 20	22 ^h 39	27 ^h 54	6 ^h 2	
M 9	15 6 25	18 ^h 8'17"	22 ^h 30	9 ^h 29	2 ^h 7	5 ^h 46	29 ^h 52	27 ^h 46	18 ^h 43	20 ^h 20	17 ^h 28	21 ^h R20	22 ^h 35	28 ^h 0	6 ^h 5	
T 10	15 10 22	19 ^h 6'14"	6 ^h 15	10 ^h 35	3 ^h 7	6 ^h 30	0 ^h 32	27 ^h 43	18 ^h 45	20 ^h 22	17 ^h 30	21 ^h 18	22 ^h 32	28 ^h 7	6 ^h 8	
W 11	15 14 18	20 ^h 4'09"	20 ^h 26	11 ^h 38	4 ^h 7	7 ^h 15	0 ^h 20	27 ^h 40	18 ^h 47	20 ^h 24	17 ^h 31	21 ^h 15	22 ^h 29	28 ^h 14	6 ^h 11	
T 12	15 18 15	21 ^h 2'02"	5 ^h 2	12 ^h 35	5 ^h 8	7 ^h 59	0 ^h 34	27 ^h 37	18 ^h 49	20 ^h 26	17 ^h 32	21 ^h 10	22 ^h 26	28 ^h 21	6 ^h 13	
F 13	15 22 11	21 ^h 59'54"	19 ^h 58	13 ^h 29	6 ^h 9	8 ^h 43	0 ^h 48	27 ^h 33	18 ^h 52	20 ^h 28	17 ^h 34	21 ^h 2	22 ^h 23	28 ^h 27	6 ^h 16	
S 14	15 26 8	22 ^h 57'44"	5 ^h 8	14 ^h 18	7 ^h 10	9 ^h 28	1 ^h 2	27 ^h 30	18 ^h 54	20 ^h 30	17 ^h 35	20 ^h 54	22 ^h 19	28 ^h 34	6 ^h 19	
S 15	15 30 4	23 ^h 55'32"	20 ^h 20	15 ^h 2	8 ^h 11	10 ^h 12	1 ^h 16	27 ^h 27	18 ^h 57	20 ^h 32	17 ^h 36	20 ^h 45	22 ^h 16	28 ^h 41	6 ^h 22	
M 16	15 34 1	24 ^h 53'19"	5 ^h 26	15 ^h 42	9 ^h 13	10 ^h 56	1 ^h 30	27 ^h 24	18 ^h 59	20 ^h 34	17 ^h 38	20 ^h 38	22 ^h 13	28 ^h 47	6 ^h 24	
T 17	15 37 58	25 ^h 51'05"	20 ^h 14	16 ^h 17	10 ^h 15	11 ^h 40	1 ^h 44	27 ^h 20	19 ^h 2	20 ^h 36	17 ^h 39	20 ^h 32	22 ^h 10	28 ^h 54	6 ^h 27	
W 18	15 41 54	26 ^h 48'49"	4 ^h 38	16 ^h 47	11 ^h 17	12 ^h 25	1 ^h 58	27 ^h 17	19 ^h 4	20 ^h 38	17 ^h 40	20 ^h 29	22 ^h 7	29 ^h 1	6 ^h 29	
T 19	15 45 51	27 ^h 46'32"	18 ^h 34	17 ^h 12	12 ^h 20	13 ^h 9	2 ^h 12	27 ^h 13	19 ^h 7	20 ^h 40	17 ^h 42	20 ^h D28	22 ^h 4	29 ^h 8	6 ^h 32	
F 20	15 49 47	28 ^h 44'14"	2 ^h 2	17 ^h 33	13 ^h 23	13 ^h 53	2 ^h 27	27 ^h 10	19 ^h 9	20 ^h 42	17 ^h 43	20 ^h 29	22 ^h 0	29 ^h 14	6 ^h 34	
S 21	15 53 44	29 ^h 41'55"	15 ^h 4	17 ^h 49	14 ^h 26	14 ^h 37	2 ^h 41	27 ^h 6	19 ^h 12	20 ^h 44	17 ^h 44	20 ^h 30	21 ^h 57	29 ^h 21	6 ^h 37	
S 22	15 57 40	0 ^h 33'35"	27 ^h 43	18 ^h 0	15 ^h 29	15 ^h 20	2 ^h 55	27 ^h 3	19 ^h 15	20 ^h 46	17 ^h 46	20 ^h R30	21 ^h 54	29 ^h 28	6 ^h 39	
M 23	16 1 37	1 ^h 37'14"	10 ^h 3	18 ^h 6	16 ^h 32	16 ^h 4	3 ^h 9	26 ^h 59	19 ^h 17	20 ^h 47	17 ^h 47	20 ^h 30	21 ^h 51	29 ^h 35	6 ^h 42	
T 24	16 5 33	2 ^h 34'52"	22 ^h 10	18 ^h R 7	17 ^h 36	16 ^h 48	3 ^h 23	26 ^h 55	19 ^h 20	20 ^h 49	17 ^h 48	20 ^h 28	21 ^h 48	29 ^h 41	6 ^h 44	
W 25	16 9 30	3 ^h 32'29"	4 ^h 7	18 ^h 4	18 ^h 40	17 ^h 32	3 ^h 37	26 ^h 51	19 ^h 23	20 ^h 51	17 ^h 50	20 ^h 24	21 ^h 45	29 ^h 48	6 ^h 47	
T 26	16 13 27	4 ^h 30'05"	16 ^h 0	17 ^h 57	19 ^h 44	18 ^h 16	3 ^h 51	26 ^h 47	19 ^h 26	20 ^h 53	17 ^h 51	20 ^h 18	21 ^h 41	29 ^h 55	6 ^h 49	
F 27	16 17 23	5 ^h 27'40"	27 ^h 51	17 ^h 45	20 ^h 49	18 ^h 59	4 ^h 5	26 ^h 43	19 ^h 28	20 ^h 54	17 ^h 52	20 ^h 11	21 ^h 38	0 ^h 1	6 ^h 51	
S 28	16 21 20	6 ^h 25'14"	9 ^h 44	17 ^h 29	21 ^h 53	19 ^h 43	4 ^h 19	26 ^h 39	19 ^h 31	20 ^h 56	17 ^h 54	20 ^h 3	21 ^h 35	0 ^h 8	6 ^h 53	
S 29	16 25 16	7 ^h 22'47"	21 ^h 40	17 ^h 10	22 ^h 58	20 ^h 26	4 ^h 33	26 ^h 35	19 ^h 34	20 ^h 58	17 ^h 55	19 ^h 55	21 ^h 32	0 ^h 15	6 ^h 55	
M 30	16 29 13	8 ^h 20'20"	3 ^h 43	16 ^h 47	24 ^h 3	21 ^h 10	4 ^h 47	26 ^h 31	19 ^h 37	21 ^h 0	17 ^h 56	19 ^h 47	21 ^h 29	0 ^h 22	6 ^h 58	
T 31	16 33 9	9 ^h 17'51"	15 ^h 52	16 ^h 21	25 ^h 7	21 ^h 53	5 ^h 11	26 ^h 27	19 ^h 40	21 ^h 1	17 ^h 58	19 ^h 41	21 ^h 25	0 ^h 28	7 ^h 0	

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♆	♆	♆	♆	♆	♆	♆
	decl	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat	decl lat
S 1	14n57	11n14	4s41	21n50	2n 7	2s36	0s23	10n57	0s29	19n 5	0s40	22s 9	1n17	22n39	0n28	6n21
M 2	15 15	14 53	4 13	22 17	2 13	2 19	0 29	11 13	0 29	19 8	0 40	22 9	1 17	22 39	0 28	6 22
T 3	15 33	17 57	3 33	22 43	2 18	2 1	0 35	11 30	0 28	19 11	0 40	22 9	1 17	22 38	0 28	6 23
W 4	15 50	20 17	2 45	23 5	2 23	1 43	0 40	11 46	0 27	19 14	0 40	22 9	1 17	22 38	0 28	6 24
T 5	16 8	21 42	1 45	23 25	2 26	1 25	0 45	12 2	0 27	19 17	0 40	22 9	1 17	22 38	0 28	6 24
F 6	16 25	22 5	0 41	23 43	2 29	1 6	0 50	12 17	0 26	19 20	0 40	22 9	1 17	22 37	0 28	6 25
S 7	16 42	21 21	0n26	23 59	2 31	0 48	0 55	12 33	0 25	19 23	0 40	22 9	1 17	22 37	0 28	6 26
S 8	16 58	19 29	1 34	24 12	2 32	0 28	1 0	12 49	0 25	19 26	0 40	22 9	1 17	22 37	0 28	6 26
M 9	17 15	16 31	2 38	24 23	2 31	0 9	1 5	13 4	0 24	19 30	0 40	22 9	1 18	22 36	0 28	6 27
T 10	17 31	12 34	3 36	24 32	2 30	0n11	1 10	13 19	0 24	19 33	0 39	22 8	1 18	22 36	0 28	6 28
W 11	17 46	7 48	4 22	24 39	2 28	0 30	1 14	13 35	0 23	19 36	0 39	22 8	1 18	22 36	0 28	6 29
T 12	18 2	2 29	4 53	24 43	2 25	0 50	1 18	13 50	0 22	19 39	0 39	22 8	1 18	22 35	0 28	6 29
F 13	18 17	3s 7	5 4	24 46	2 21	1 11	1 22	14 4	0 22	19 42	0 39	22 8	1 18	22 35	0 28	6 30
S 14	18 32	8 36	4 55	24 47	2 16	1 31	1 26	14 19	0 21	19 45	0 39	22 8	1 18	22 35	0 28	6 31
S 15	18 46	13 35	4 25	24 46	2 10	1 52	1 30	14 34	0 19	19 48	0 39	22 8	1 18	22 34	0 28	6 32
M 16	19 0	17 40	3 37	24 44	2 3	2 13	1 34	14 48	0 20	19 51	0 39	22 8	1 18	22 34	0 28	6 32
T 17	19 14	20 31	2 35	24 40	1 55	2 34	1 37	15 2	0 19	19 53	0 39	22 8	1 18	22 34	0 28	6 33
W 18	19 27	21 59	1 24	24 34	1 46	2 55	1 41	15 17	0 19	19 56	0 39	22 8	1 18	22 33	0 28	6 34
T 19	19 41	22 0	0 10	24 26	1 36	3 17	1 44	15 31	0 18	19 59	0 39	22 8	1 18	22 33	0 28	6 34
F 20	19 53	20 43	1s 2	24 17	1 25	3 38	1 47	15 44	0 17	20 2	0 38	22 8	1 18	22 33	0 28	6 35
S 21	20 6	18 22	2 8	24 7	1 13	4 0	1 50	15 58	0 17	20 5	0 38	22 8	1 18	22 32	0 28	6 36
S 22	20 18	15 12	3 7	23 55	1 1	4 22	1 53	16 11	0 16	20 8	0 38	22 8	1 18	22 32	0 28	6 36
M 23	20 30	11 25	3 55	23 42	0 47	4 44	1 55	16 25	0 15	20 11	0 38	22 8	1 18	22 31	0 28	6 37
T 24	20 41	7 16	4 31	23 28	0 32	5 6	1 58	16 38	0 15	20 13	0 38	22 8	1 17	22 31	0 28	6 38
W 25	20 53	2 53	4 56	23 12	0 17	5 28	2 0	16 51	0 14	20 16	0 38	22 8	1 17	22 31	0 28	6 38
T 26	21 3	1n35	5													

SWISS EPHEMERIS for the year 1870

JUNE 1870

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	16 37 6	10Ⅱ15'21	28Ⅱ10	15°R52	26Ⅱ13	22♁37	5Ⅱ15	26°R23	19♁43	21Ⅱ 3	17♁59	19°R37	21♁22	0♁35	7Ⅱ 2
T 2	16 41 2	11°12'50	10♁37	15Ⅱ22	27°19	23°20	5°29	26♁19	19°46	21° 4	18° 0	19♁35	21°19	0°42	7° 4
F 3	16 44 59	12°10'18	23°16	14°50	28°24	24° 3	5°44	26°15	19°49	21° 6	18° 1	19°D35	21°16	0°48	7° 6
S 4	16 48 56	13° 7'45	6♁ 8	14°17	29°30	24°46	5°58	26°10	19°52	21° 8	18° 3	19°36	21°13	0°55	7° 7
S 5	16 52 52	14° 5'10	19°16	13°43	0♁36	25°29	6°12	26° 6	19°55	21° 9	18° 4	19°37	21°10	1° 2	7° 9
M 6	16 56 49	15° 2'35	2Ⅱ40	13°10	1°42	26°13	6°26	26° 2	19°59	21°11	18° 5	19°39	21° 6	1° 9	7°11
T 7	17 0 45	15°59'58	16°23	12°37	2°48	26°56	6°39	25°57	20° 2	21°12	18° 6	19°R39	21° 3	1°15	7°13
W 8	17 4 42	16°57'20	0♁26	12° 6	3°55	27°38	6°53	25°53	20° 5	21°14	18° 8	19°39	21° 0	1°22	7°15
T 9	17 8 38	17°54'41	14°48	11°36	5° 1	28°21	7° 7	25°49	20° 8	21°15	18° 9	19°37	20°57	1°29	7°16
F 10	17 12 35	18°52'01	29°25	11° 9	6° 8	29° 4	7°21	25°44	20°11	21°17	18°10	19°33	20°54	1°36	7°18
S 11	17 16 31	19°49'21	14Ⅱ13	10°44	7°14	29°47	7°35	25°40	20°15	21°18	18°11	19°29	20°51	1°42	7°19
S 12	17 20 28	20°46'39	29° 5	10°23	8°21	0Ⅱ30	7°49	25°36	20°18	21°19	18°12	19°25	20°47	1°49	7°21
M13	17 24 25	21°43'56	13♁52	10° 5	9°28	1°12	8° 3	25°31	20°21	21°21	18°13	19°22	20°44	1°56	7°22
T 14	17 28 21	22°41'13	28°27	9°51	10°36	1°55	8°17	25°27	20°24	21°22	18°15	19°19	20°41	2° 2	7°24
W15	17 32 18	23°38'30	12♁44	9°41	11°43	2°38	8°31	25°22	20°28	21°23	18°16	19°D18	20°38	2° 9	7°25
T 16	17 36 14	24°35'45	26°39	9°36	12°50	3°20	8°44	25°18	20°31	21°24	18°17	19°18	20°35	2°16	7°27
F 17	17 40 11	25°33'01	10♁ 8	9°D34	13°58	4° 3	8°58	25°13	20°35	21°26	18°18	19°19	20°31	2°23	7°28
S 18	17 44 7	26°30'16	23°13	9°38	15° 5	4°45	9°12	25° 9	20°38	21°27	18°19	19°21	20°28	2°29	7°29
S 19	17 48 4	27°27'31	5♁56	9°46	16°13	5°27	9°25	25° 5	20°41	21°28	18°20	19°22	20°25	2°36	7°30
M20	17 52 0	28°24'45	18°50	9°59	17°21	6°10	9°39	25° 0	20°45	21°29	18°21	19°23	20°22	2°43	7°31
T 21	17 55 57	29°22'00	0Ⅱ30	10°16	18°29	6°52	9°53	24°56	20°48	21°30	18°22	19°R24	20°19	2°49	7°33
W22	17 59 54	0♁19'14	12°29	10°38	19°37	7°34	10° 6	24°51	20°52	21°31	18°23	19°23	20°16	2°56	7°34
T 23	18 3 50	1°16'28	24°22	11° 5	20°45	8°16	10°20	24°47	20°55	21°32	18°24	19°22	20°12	3° 3	7°35
F 24	18 7 47	2°13'42	6♁15	11°36	21°54	8°58	10°33	24°43	20°59	21°33	18°26	19°20	20° 9	3°10	7°35
S 25	18 11 43	3°10'56	18°10	12°12	23° 2	9°40	10°47	24°38	21° 2	21°34	18°27	19°17	20° 6	3°16	7°36
S 26	18 15 40	4° 8'10	0Ⅱ10	12°53	24°10	10°22	11° 0	24°34	21° 6	21°35	18°28	19°15	20° 3	3°23	7°37
M27	18 19 36	5° 5'24	12°20	13°37	25°19	11° 4	11°14	24°30	21° 9	21°36	18°29	19°13	20° 0	3°30	7°38
T 28	18 23 33	6° 2'38	24°40	14°27	26°28	11°46	11°27	24°25	21°13	21°37	18°30	19°11	19°57	3°36	7°39
W29	18 27 29	6°59'52	7♁13	15°20	27°37	12°28	11°41	24°21	21°16	21°38	18°30	19°11	19°53	3°43	7°39
T 30	18 31 26	7♁57'06	19♁59	16Ⅱ18	28♁45	13Ⅱ10	11Ⅱ54	24♁17	21♁20	21Ⅱ39	18♁31	19°D10	19♁50	3♁50	7Ⅱ40

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	22n 0	21n33	1s54	21n 2	1s41	8n 3	2s14	18n17	0s10	20n35	0s37	22s 7	1n17	22n28	0n28	6n42	1s38	2n56	14s50	22n 1	21n45	6n55	5n25	2n51
T 2	22 8	22 13	0 49	20 41	1 58	8 25	2 15	18 28	0 9	20 37	0 37	22 7	1 17	22 27	0 28	6 43	1 38	2 56	14 50	22 1	21 46	6 58	5 25	2 51
F 3	22 16	21 47	0n20	20 21	2 15	8 48	2 16	18 40	0 8	20 40	0 37	22 7	1 17	22 27	0 28	6 44	1 38	2 56	14 50	22 1	21 46	7 0	5 26	2 51
S 4	22 23	20 11	1 29	20 1	2 31	9 10	2 17	18 51	0 8	20 42	0 37	22 7	1 17	22 26	0 28	6 44	1 38	2 57	14 50	22 1	21 47	7 3	5 27	2 51
S 5	22 30	17 30	2 35	19 42	2 47	9 32	2 18	19 2	0 7	20 45	0 37	22 7	1 17	22 26	0 28	6 45	1 38	2 57	14 50	22 1	21 47	7 5	5 28	2 51
M 6	22 37	13 51	3 33	19 24	3 1	9 54	2 19	19 13	0 6	20 47	0 37	22 7	1 17	22 25	0 28	6 45	1 38	2 57	14 50	22 1	21 48	7 7	5 29	2 52
T 7	22 43	9 23	4 21	19 6	3 15	10 16	2 20	19 24	0 6	20 50	0 37	22 7	1 17	22 25	0 28	6 46	1 38	2 57	14 50	22 1	21 48	7 10	5 30	2 52
W 8	22 49	4 20	4 55	18 50	3 27	10 37	2 21	19 34	0 5	20 52	0 37	22 7	1 17	22 24	0 28	6 46	1 38	2 57	14 50	22 1	21 49	7 12	5 30	2 52
T 9	22 54	1 s 3	5 11	18 35	3 39	10 59	2 21	19 44	0 4	20 54	0 37	22 6	1 17	22 24	0 28	6 47	1 38	2 58	14 50	22 1	21 49	7 15	5 31	2 52
F 10	22 59	6 28	5 8	18 21	3 49	11 21	2 22	19 54	0 4	20 57	0 37	22 6	1 17	22 23	0 28	6 47	1 38	2 58	14 51	22 2	21 50	7 17	5 32	2 52
S 11	23 4	11 36	4 44	18 9	3 57	11 42	2 22	20 4	0 3	20 59	0 37	22 6	1 17	22 23	0 28	6 48	1 38	2 58	14 51	22 2	21 50	7 20	5 32	2 52
S 12	23 8	16 3	4 1	17 59	4 5	12 3	2 22	20 14	0 2	21 1	0 37	22 6	1 17	22 22	0 28	6 48	1 38	2 58	14 51	22 2	21 51	7 22	5 33	2 52
M13	23 12	19 28	3 2	17 50	4 11	12 24	2 22	20 23	0 2	21 4	0 37	22 6	1 17	22 22	0 28	6 49	1 38	2 58	14 51	22 2	21 51	7 25	5 34	2 52
T 14	23 15	21 35	1 52	17 44	4 16	12 45	2 22	20 33	0 1	21 6	0 37	22 6	1 17	22 21	0 28	6 49	1 38	2 58	14 51	22 2	21 52	7 27	5 34	2 52
W15	23 18	22 15	0 36	17 39	4 19	13 6	2 22	20 42	0 0	21 8	0 37	22 6	1 17	22 21	0 28	6 49	1 38	2 59	14 51	22 2	21 52	7 29	5 35	2 52
T 16	23 21	21 30	0s40	17 36	4 21	13 27	2 22	20 51	0n 0	21 10	0 36	22 6	1 16	22 20	0 28	6 50	1 39	2 59	14 51	22 2	21 53	7 32	5 36	2 52
F 17	23 23	19 31	1 52	17 35	4 22	13 47	2 22	20 59	0 1	21 13	0 36	22 6	1 16	22 20	0 28	6 50	1 39	2 59	14 52	22 2	21 53	7 34	5 36	2 52
S 18	23 25	16 33	2 56	17 36	4 22	14 7	2 21	21 8	0 2	21 15	0 36	22 6	1 16	22 19	0 28	6 51	1 39	2 59	14 52	22 2	21 54	7 37	5 37	2 53
S 19	23 26	12 53	3 49	17 39	4 20	14 27	2 21	21 16	0 2	21 17	0 36	22 6	1 16	22 19	0 28	6 51	1 39	2 59	14 52	22 2	21 54	7 39	5 37	2 53
M20	23 27	8 45	4 30	17 43	4 17	14 47	2 20	21 24	0 3	21 19	0 36	22 6	1 16	22 18	0 28	6 51	1 39	2 59	14 52	22 2	21 55	7 42	5 38	2 53
T 21	23 27	4 22	4 58	17 49	4 13	15 6	2 19	21 32	0 4	21 21	0 36	22 5	1 16	22 18	0 28	6 52	1 39	2 59	14 52	22 2	21 55	7 44	5 38	2 53
W22	23 27	0n 8	5 13	17 57	4 9	15 26	2 19	21 40	0 4	21 23	0 36	22 5	1 16	22 17	0 28	6 52	1 39	2 59	14 52	22 2	21 56	7 47	5 39	2 53
T 23	23 27	4 35	5 14	18 6	4 3	15 44	2 18	21 47	0 5	21 25	0 36	22 5	1 16	22 17	0 28	6 52	1 39	3 0	14 53	22 2	21 56	7 49	5 39	2 53
F 24	23 26	8 52	5 2	18 17	3 56	16 3	2 17	21 54	0 6	21 27	0 36	22 5	1 16	22 16	0 28	6 53	1 39	3 0	14 53	22 2	21 56	7 51	5 40	2 53
S 25	23 25	12 49	4 36	18 29	3 49	16 21	2 16	22 1	0 6	21 29	0 36	22 5	1 16	22 16	0 28	6 53	1 39	3 0	14 53	22 2	21 57	7 54	5 40	2 53
S 26	23 23	16 19	3 59	18 42	3 41	16 39	2 14	22 8	0 7	21 31	0 36	22 5	1 16	22 15	0 28	6 53	1 39	3 0	14 53	22 2	21 57	7 56	5 41	2 53
M27	23 21	19 9	3 10	18 56	3 32	16 57	2 13	22 15	0 8	21 33	0 36	22 5	1 15	22 15	0 28	6 54	1 39	3 0	14 53	22 2	21 58	7 59	5 41	2 53
T 28	23 19	21 10	2 11	19 12	3 23	17 14	2 12	22 21	0 8	21 35	0 36	22 5	1 15	22 14	0 28	6 54	1 39	3 0	14 53	22 2	21 58	8 1	5 41	2 53
W29	23 16	22 10	1 6	19 27	3 13	17 31	2 11	22 27	0 9	21 37	0 36	22 5	1 15	22 13	0 28	6 54	1 39	3 0	14 54	22 2	21 59	8 4	5 42	

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Day	Sid.t	☉	☽	♀	♁	♂	♄	♃	♁	♂	♅	♁	♁	♁	♁	♁
F 1	18 35 23	8☉54'19	2☽58	17♁20	29♂54	13♁51	12♁ 7	24☾R12	21☾24	21☾40	18♂32	19☾11	19☾47	3♂57	7☾41	
S 2	18 39 19	9°51'33	16°10	18°27	1♁ 3	14°33	12°20	24♂ 8	21°27	21°41	18°33	19°11	19°44	4° 3	7°41	
S 3	18 43 16	10°48'46	29°37	19°37	2°13	15°14	12°34	24° 4	21°31	21°41	18°34	19°12	19°41	4°10	7°41	
M 4	18 47 12	11°45'59	13♁17	20°51	3°22	15°56	12°47	24° 0	21°35	21°42	18°35	19°13	19°37	4°17	7°42	
T 5	18 51 9	12°43'11	27° 8	22°10	4°31	16°37	13° 0	23°56	21°38	21°43	18°36	19°13	19°34	4°24	7°42	
W 6	18 55 5	13°40'23	11♁12	23°32	5°40	17°19	13°13	23°52	21°42	21°43	18°37	19°R13	19°31	4°30	7°43	
T 7	18 59 2	14°37'36	25°25	24°58	6°50	18° 0	13°26	23°48	21°45	21°44	18°38	19°13	19°28	4°37	7°43	
F 8	19 2 58	15°34'48	9♁46	26°29	7°59	18°41	13°39	23°44	21°49	21°45	18°38	19°13	19°25	4°44	7°43	
S 9	19 6 55	16°31'59	24°11	28° 2	9° 9	19°23	13°51	23°40	21°53	21°45	18°39	19°13	19°22	4°50	7°43	
S 10	19 10 52	17°29'11	8♂36	29°40	10°19	20° 4	14° 4	23°36	21°56	21°46	18°40	19°13	19°18	4°57	7°43	
M11	19 14 48	18°26'23	22°57	1☾21	11°28	20°45	14°17	23°32	22° 0	21°46	18°41	19°12	19°15	5° 4	7°R43	
T 12	19 18 45	19°23'35	7☾ 8	3° 5	12°38	21°26	14°30	23°29	22° 4	21°47	18°42	19°D12	19°12	5°11	7°43	
W13	19 22 41	20°20'48	21° 6	4°53	13°48	22° 7	14°42	23°25	22° 7	21°47	18°42	19°R12	19° 9	5°17	7°43	
T 14	19 26 38	21°18'00	4☾47	6°44	14°58	22°48	14°55	23°21	22°11	21°48	18°43	19°12	19° 6	5°24	7°43	
F 15	19 30 34	22°15'13	18° 9	8°38	16° 8	23°29	15° 7	23°18	22°15	21°48	18°44	19°12	19° 3	5°31	7°43	
S 16	19 34 31	23°12'27	1♁11	10°34	17°18	24°10	15°20	23°14	22°18	21°48	18°44	19°12	18°59	5°37	7°43	
S 17	19 38 28	24° 9'41	13°53	12°33	18°29	24°50	15°32	23°11	22°22	21°49	18°45	19°11	18°56	5°44	7°42	
M18	19 42 24	25° 6'55	26°18	14°34	19°39	25°31	15°45	23° 7	22°26	21°49	18°46	19°11	18°53	5°51	7°42	
T 19	19 46 21	26° 4'11	8☾29	16°36	20°49	26°12	15°57	23° 4	22°29	21°49	18°46	19°10	18°50	5°58	7°42	
W20	19 50 17	27° 1'27	20°30	18°41	22° 0	26°52	16° 9	23° 0	22°33	21°49	18°47	19°10	18°47	6° 4	7°41	
T 21	19 54 14	27°58'44	2♁24	20°46	23°10	27°33	16°21	22°57	22°37	21°49	18°48	19°D10	18°43	6°11	7°41	
F 22	19 58 10	28°56'01	14°17	22°53	24°21	28°13	16°33	22°54	22°40	21°50	18°48	19°10	18°40	6°18	7°40	
S 23	20 2 7	29°53'20	26°13	24°59	25°32	28°54	16°45	22°51	22°44	21°50	18°49	19°11	18°37	6°24	7°39	
S 24	20 6 3	0♁50'40	8♁17	27° 7	26°42	29°34	16°57	22°48	22°48	21°50	18°49	19°12	18°34	6°31	7°39	
M25	20 10 0	1°48'00	20°32	29°14	27°53	0☾15	17° 9	22°45	22°51	21°50	18°50	19°13	18°31	6°38	7°38	
T 26	20 13 56	2°45'21	3☾ 1	1♁21	29° 4	0°55	17°21	22°42	22°55	21°R50	18°50	19°14	18°28	6°45	7°37	
W27	20 17 53	3°42'44	15°48	3°27	0☾15	1°35	17°32	22°39	22°58	21°50	18°51	19°R14	18°24	6°51	7°37	
T 28	20 21 50	4°40'07	28°52	5°33	1°26	2°15	17°44	22°37	23° 2	21°50	18°51	19°14	18°21	6°58	7°36	
F 29	20 25 46	5°37'31	12♁14	7°37	2°37	2°55	17°55	22°34	23° 6	21°50	18°52	19°13	18°18	7° 5	7°35	
S 30	20 29 43	6°34'55	25°52	9°41	3°48	3°36	18° 7	22°31	23° 9	21°50	18°52	19°11	18°15	7°11	7°34	
S 31	20 33 39	7♁32'21	9♁44	11♁43	5☾ 0	4☾16	18♁18	22♂29	23☾13	21☾49	18♂53	19☾ 9	18☾12	7♁18	7☾33	

Day	☉		☽		♀		♁		♂		♄		♃		♁		♅		♁					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
F 1	23n 9	20n44	1n16	20n 1	2s51	18n 4	2s 7	22n39	0n11	21n40	0s36	22s 5	1n15	22n12	0n28	6n55	1s39	3n 0	14s54	22n 5	22n 0	8n 8	5n42	2n54
S 2	23 5	18 17	2 26	20 18	2 39	18 20	2 6	22 45	0 11	21 42	0 36	22 5	1 15	22 12	0 28	6 55	1 39	3 0	14 54	22 5	22 0	8 11	5 43	2 54
S 3	23 1	14 49	3 26	20 36	2 27	18 35	2 4	22 50	0 12	21 44	0 36	22 5	1 15	22 11	0 28	6 55	1 39	3 0	14 55	22 5	22 1	8 13	5 43	2 54
M 4	22 56	10 32	4 17	20 53	2 15	18 50	2 2	22 55	0 13	21 45	0 36	22 5	1 15	22 11	0 28	6 55	1 40	3 0	14 55	22 5	22 1	8 16	5 43	2 54
T 5	22 51	5 38	4 54	21 11	2 3	19 5	2 1	23 0	0 13	21 47	0 35	22 4	1 15	22 10	0 28	6 56	1 40	3 0	14 55	22 5	22 2	8 18	5 43	2 54
W 6	22 45	0 23	5 14	21 28	1 50	19 19	1 59	23 5	0 14	21 49	0 35	22 4	1 14	22 10	0 28	6 56	1 40	3 0	14 55	22 5	22 2	8 21	5 44	2 54
T 7	22 39	4s57	5 15	21 44	1 37	19 33	1 57	23 9	0 15	21 50	0 35	22 4	1 14	22 9	0 28	6 56	1 40	3 0	14 55	22 5	22 3	8 23	5 44	2 54
F 8	22 33	10 3	4 57	22 0	1 24	19 46	1 55	23 14	0 15	21 52	0 35	22 4	1 14	22 8	0 28	6 56	1 40	3 0	14 56	22 5	22 3	8 26	5 44	2 54
S 9	22 26	14 38	4 20	22 15	1 11	19 59	1 52	23 18	0 16	21 54	0 35	22 4	1 14	22 8	0 28	6 56	1 40	3 0	14 56	22 5	22 3	8 28	5 44	2 54
S 10	22 19	18 21	3 27	22 29	0 58	20 11	1 50	23 22	0 17	21 55	0 35	22 4	1 14	22 7	0 28	6 56	1 40	3 0	14 56	22 5	22 4	8 30	5 44	2 55
M11	22 11	20 56	2 21	22 41	0 46	20 23	1 48	23 25	0 17	21 57	0 35	22 4	1 14	22 7	0 28	6 57	1 40	3 0	14 56	22 5	22 4	8 33	5 44	2 55
T 12	22 3	22 9	1 6	22 52	0 33	20 35	1 46	23 29	0 18	21 58	0 35	22 4	1 14	22 6	0 28	6 57	1 40	3 0	14 57	22 5	22 5	8 35	5 44	2 55
W13	21 55	21 58	0s11	23 2	0 20	20 46	1 43	23 32	0 19	22 0	0 35	22 4	1 14	22 5	0 28	6 57	1 40	3 0	14 57	22 5	22 5	8 38	5 44	2 55
T 14	21 46	20 28	1 25	23 9	0 8	20 56	1 41	23 35	0 19	22 1	0 35	22 4	1 13	22 5	0 28	6 57	1 40	3 0	14 57	22 5	22 6	8 40	5 44	2 55
F 15	21 37	17 50	2 34	23 14	0n 4	21 6	1 39	23 38	0 20	22 3	0 35	22 4	1 13	22 4	0 28	6 57	1 40	3 0	14 57	22 5	22 6	8 43	5 44	2 55
S 16	21 27	14 22	3 32	23 17	0 15	21 15	1 36	23 40	0 21	22 4	0 35	22 4	1 13	22 4	0 28	6 57	1 40	3 0	14 58	22 5	22 7	8 45	5 44	2 55
S 17	21 18	10 19	4 19	23 18	0 26	21 24	1 34	23 43	0 21	22 5	0 35	22 4	1 13	22 3	0 28	6 57	1 40	3 0	14 58	22 5	22 7	8 47	5 44	2 55
M18	21 7	5 56	4 52	23 16	0 37	21 32	1 31	23 45	0 22	22 7	0 35	22 4	1 13	22 3	0 28	6 57	1 40	3 0	14 58	22 5	22 7	8 50	5 44	2 55
T 19	20 57	1 24	5 11	23 11	0 46	21 40	1 29	23 47	0 23	22 8	0 35	22 4	1 13	22 2	0 28	6 57	1 40	3 0	14 58	22 5	22 8	8 52	5 44	2 55
W20	20 46	3n 7	5 17	23 4	0 56	21 47	1 26	23 48	0 23	22 9	0 35	22 4	1 13	22 1	0 28	6 57	1 41	2 59	14 59	22 5	22 8	8 55	5 44	2 55
T 21	20 35	7 29	5 8	22 54	1 4	21 54	1 23	23 50	0 24	22 11	0 35	22 4	1 12	22 1	0 28	6 57	1 41	2 59	14 59	22 5	22 9	8 57	5 44	2 56
F 22	20 23	11 34	4 47	22 42	1 12	22 0	1 20	23 51	0 25	22 12	0 35	22 4	1 12	22 0	0 28	6 57	1 41	2 59	14 59	22 5	22 9	9 0	5 44	2 56
S 23	20 11	15 13	4 13	22 26	1 19	22 5	1 18	23 52	0 25	22 13	0 35	22 4	1 12	22 0	0 28	6 57	1 41	2 59	14 59	22 5	22 10	9 2	5 44	2 56
S 24	19 59	18 17	3 28	22 8	1 25	22 10	1 15	23 53	0 26	22 14	0 35	22 4	1 12	21 59	0 28	6 57	1 41	2 59	15 0	22 5	22 10	9 4	5 44	2 56
M25	19 46	20 35	2 32	21 48	1 30	22 14	1 12	23 54	0 27	22 15	0 35	22 4	1 12	21 58	0 28	6 57	1 41	2 59	15 0	22 5	22 10	9 7	5 43	2 56
T 26	19 33	21 57	1 28	21 25	1 35	22 18	1 9	23 55	0 27	22 17	0 35	22 4	1 12	21 58	0 28	6 57	1 41	2 59	15 0	22 5	22 11	9 9	5 43	2 56
W27	19 20	22 12	0 19	21 0	1 39	22 21	1 6	23 55	0 28	22 18	0 35	22 4	1 11	21 57	0 28	6 57	1 41	2 59	15 0	22 4	22 11	9 12	5 43	2 56
T 28	19 7	21 16	0m53	20 33	1 42	22 23	1 4	23 55	0 29	22 19	0 35	22 4	1 11	21 57	0 28	6 57	1 41	2 58	15 1	22 4	22 12	9 14	5 43	2 56
F 29	18 53	19 7	2 4																					

SWISS EPHEMERIS for the year 1870

AUGUST 1870

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	20 37 36	8Ω29'47	23η48	13Ω45	6♄11	4♃55	18♂29	22°R26	23♄16	21°R49	18♂53	19°R 7	18♄9	7♂25	7°R32
T 2	20 41 32	9°27'13	7♄59	15°44	7°22	5°35	18°41	22°R24	23°20	21°Y49	18°53	19°R 4	18°5	7°32	7°Y31
W 3	20 45 29	10°24'41	22°53	17°43	8°34	6°15	18°52	22°22	23°24	21°49	18°54	19°3	18°2	7°38	7°29
T 4	20 49 25	11°22'09	6♂28	19°40	9°45	6°55	19°3	22°20	23°27	21°48	18°54	19°D 2	17°59	7°45	7°28
F 5	20 53 22	12°19'38	20°41	21°35	10°57	7°35	19°14	22°18	23°31	21°48	18°54	19°2	17°56	7°52	7°27
S 6	20 57 19	13°17'07	4♂49	23°29	12°8	8°14	19°24	22°16	23°34	21°48	18°54	19°3	17°53	7°58	7°26
S 7	21 1 15	14°14'38	18°51	25°22	13°20	8°54	19°35	22°14	23°38	21°47	18°55	19°4	17°49	8°5	7°24
M 8	21 5 12	15°12'09	2♄36	27°12	14°32	9°33	19°46	22°12	23°41	21°47	18°55	19°6	17°46	8°12	7°23
T 9	21 9 8	16°9'41	16°30	29°2	15°43	10°13	19°56	22°10	23°45	21°47	18°55	19°R 6	17°43	8°19	7°21
W10	21 13 5	17°7'14	0♄3	0η50	16°55	10°52	20°7	22°9	23°48	21°46	18°55	19°6	17°40	8°25	7°20
T 11	21 17 1	18°4'48	13°23	2°36	18°7	11°32	20°17	22°7	23°51	21°46	18°56	19°4	17°37	8°32	7°18
F 12	21 20 58	19°2'23	26°29	4°21	19°19	12°11	20°27	22°6	23°55	21°45	18°56	19°1	17°34	8°39	7°17
S 13	21 24 55	20°0'00	9♂20	6°4	20°31	12°50	20°37	22°4	23°58	21°44	18°56	18°56	17°30	8°45	7°15
S 14	21 28 51	20°57'37	21°56	7°46	21°43	13°29	20°47	22°3	24°2	21°44	18°56	18°51	17°27	8°52	7°13
M15	21 32 48	21°55'16	4Y17	9°26	22°55	14°9	20°57	22°2	24°5	21°43	18°56	18°46	17°24	8°59	7°12
T 16	21 36 44	22°52'57	16°26	11°5	24°8	14°48	21°7	22°1	24°8	21°43	18°56	18°41	17°21	9°6	7°10
W17	21 40 41	23°50'39	28°26	12°42	25°20	15°27	21°17	22°0	24°12	21°42	18°56	18°37	17°18	9°12	7°8
T 18	21 44 37	24°48'23	10♄20	14°18	26°32	16°6	21°26	21°59	24°15	21°41	18°56	18°34	17°14	9°19	7°6
F 19	21 48 34	25°46'08	22°12	15°53	27°45	16°45	21°36	21°58	24°18	21°40	18°56	18°D33	17°11	9°26	7°4
S 20	21 52 30	26°43'55	4II 7	17°26	28°57	17°23	21°45	21°57	24°21	21°40	18°56	18°33	17°8	9°32	7°3
S 21	21 56 27	27°41'44	16°10	18°58	0Ω10	18°2	21°54	21°57	24°25	21°39	18°56	18°34	17°5	9°39	7°1
M22	22 0 23	28°39'35	28°26	20°28	1°22	18°41	22°3	21°56	24°28	21°38	18°56	18°36	17°2	9°46	6°59
T 23	22 4 20	29°37'27	11♄0	21°57	2°35	19°20	22°12	21°56	24°31	21°37	18°56	18°37	16°59	9°53	6°57
W24	22 8 17	0η35'21	23°54	23°24	3°48	19°58	22°21	21°56	24°34	21°36	18°56	18°R37	16°55	9°59	6°55
T 25	22 12 13	1°33'16	7Ω11	24°50	5°0	20°37	22°30	21°55	24°37	21°35	18°56	18°35	16°52	10°6	6°52
F 26	22 16 10	2°31'14	20°52	26°14	6°13	21°15	22°38	21°55	24°40	21°34	18°56	18°32	16°49	10°13	6°50
S 27	22 20 6	3°29'12	4η54	27°37	7°26	21°54	22°47	21°D55	24°43	21°33	18°56	18°26	16°46	10°19	6°48
S 28	22 24 3	4°27'13	19°14	28°59	8°39	22°32	22°55	21°55	24°46	21°32	18°55	18°20	16°43	10°26	6°46
M29	22 27 59	5°25'14	3♄45	0♄18	9°52	23°10	23°4	21°55	24°49	21°31	18°55	18°12	16°40	10°33	6°44
T 30	22 31 56	6°23'18	18°22	1°37	11°5	23°49	23°12	21°56	24°52	21°30	18°55	18°5	16°36	10°40	6°41
W31	22 35 52	7η21'22	2η56	2♄53	12Ω18	24♄27	23II20	21♄56	24♄55	21Y29	18♄55	18♄0	16♄33	10♄46	6Y39

Day	☉	☽	♀	♁	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat
M 1	18n 9	6n49	4n45	18n25	1n47	22n27	0s52	23n53	0n32	22n23	0s35	22s 4	1n11	21n54	0n28
T 2	17 54	1 34	5 9	17 49	1 46	22 26	0 49	23 52	0 32	22 24	0 35	22 4	1 10	21 54	0 28
W 3	17 39	3s48	5 14	17 12	1 45	22 25	0 46	23 51	0 33	22 25	0 35	22 4	1 10	21 53	0 28
T 4	17 23	8 57	5 0	16 34	1 43	22 23	0 43	23 50	0 34	22 26	0 35	22 4	1 10	21 52	0 28
F 5	17 7	13 38	4 28	15 55	1 41	22 21	0 40	23 49	0 34	22 27	0 35	22 4	1 10	21 52	0 28
S 6	16 51	17 31	3 40	15 14	1 38	22 17	0 37	23 47	0 35	22 27	0 35	22 4	1 10	21 51	0 28
S 7	16 34	20 21	2 38	14 34	1 35	22 14	0 34	23 45	0 36	22 28	0 35	22 4	1 10	21 51	0 28
M 8	16 17	21 57	1 29	13 52	1 31	22 9	0 31	23 43	0 36	22 29	0 35	22 4	1 9	21 50	0 28
T 9	16 0	22 12	0 14	13 10	1 26	22 4	0 28	23 41	0 37	22 30	0 35	22 4	1 9	21 50	0 28
W10	15 43	21 7	1s 0	12 28	1 22	21 58	0 25	23 38	0 38	22 31	0 34	22 4	1 9	21 49	0 28
T 11	15 25	18 52	2 9	11 45	1 17	21 52	0 22	23 36	0 38	22 32	0 34	22 4	1 9	21 48	0 28
F 12	15 7	15 41	3 10	11 2	1 11	21 45	0 19	23 33	0 39	22 32	0 34	22 5	1 9	21 48	0 28
S 13	14 49	11 47	4 0	10 18	1 5	21 38	0 16	23 30	0 40	22 33	0 34	22 5	1 9	21 47	0 28
S 14	14 31	7 27	4 38	9 35	0 59	21 29	0 13	23 27	0 40	22 34	0 34	22 5	1 8	21 47	0 28
M15	14 13	2 54	5 1	8 51	0 53	21 21	0 10	23 23	0 41	22 34	0 34	22 5	1 8	21 46	0 28
T 16	13 54	1n41	5 11	8 7	0 46	21 11	0 7	23 20	0 42	22 35	0 34	22 5	1 8	21 46	0 28
W17	13 35	6 9	5 7	7 24	0 39	21 1	0 4	23 16	0 42	22 36	0 34	22 5	1 8	21 45	0 28
T 18	13 16	10 21	4 49	6 40	0 32	20 50	0 1	23 12	0 43	22 36	0 34	22 5	1 8	21 44	0 28
F 19	12 56	14 9	4 19	5 57	0 24	20 39	0n 2	23 8	0 44	22 37	0 34	22 5	1 7	21 44	0 28
S 20	12 37	17 25	3 38	5 13	0 16	20 27	0 5	23 4	0 45	22 38	0 34	22 5	1 7	21 43	0 28
S 21	12 17	19 58	2 47	4 30	0 9	20 15	0 7	22 59	0 45	22 38	0 34	22 6	1 7	21 43	0 28
M22	11 57	21 39	1 47	3 47	0 0	20 2	0 10	22 55	0 46	22 39	0 34	22 6	1 7	21 42	0 28
T 23	11 37	22 19	0 41	3 5	0s 8	19 48	0 13	22 50	0 47	22 39	0 34	22 6	1 7	21 42	0 28
W24	11 16	21 49	0n29	2 22	0 16	19 34	0 16	22 45	0 47	22 40	0 34	22 6	1 7	21 41	0 28
T 25	10 56	20 5	1 39	1 41	0 25	19 20	0 18	22 40	0 48	22 40	0 34	22 6	1 6	21 41	0 28
F 26	10 35	17 10	2 45	0 59	0 33	19 4	0 21	22 35	0 49	22 41	0 34	22 6	1 6	21 40	0 28
S 27	10 14	13 11	3 44	0 18	0 42	18 49	0 24	22 29	0 49	22 41	0 34	22 7	1 6	21 40	0 28
S 28	9 53	8 23	4 29	0s22	0 51	18 32	0 26	22 24	0 50	22 42	0 34	22 7	1 6	21 39	0 28
M29	9 32	3 3	4 58	1 2	1 0	18 15	0 29	22 18	0 51	22 42	0 34	22 7	1 6	21 39	0 28
T 30	9 10	2s28	5 7	1 41	1 8	17 58	0 32	22 12	0 51	22 43	0 34	22 7	1 6	21 38	0 28
W31	8n49	7s51	4n57	2s20	1s17	17n40	0n34	22n 6	0n52	22n43	0s34	22s 7	1n 5	21n37	0n28

Julian Day Number = 2404275.5, Delta T = 0.68 sec
 Ecliptic obliquity = 23°27'19, Nutation = - 0°00'15
 Ayanamsha: Fagan/Bradley = 22°55'59, Lahiri = 22°02'59

SWISS EPHEMERIS for the year 1870

SEPTEMBER 1870

00:00 UT

Table with 16 columns: Day, Sid.t, ☉, ☽, ♃, ♅, ♁, ♄, ♀, ♁, ♃, ♅, ♁, ♁, ♃, ♅. It lists astronomical data for each day of the month, including positions of celestial bodies in various signs.

Table with 18 columns: Day, ☉, ☽, ♃, ♅, ♁, ♄, ♀, ♁, ♃, ♅, ♁, ♁, ♃, ♅. This table provides declination and latitude values for the celestial bodies listed in the first table.

Julian Day Number = 2404306.5, Delta T = 0.54 sec
Ecliptic obliquity = 23°27'20", Nutation = - 0°00'16"
Ayanamsha: Fagan/Bradley = 22°56'03", Lahiri = 22°03'03"

SWISS EPHEMERIS for the year 1870

OCTOBER 1870

00:00 UT

Day	Sid.t	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑
S 1	0 38 6	7♏36°25	26♑14	14°R28	20♒27	13♓39	26♐8	22♑55	26♏8	20°R46	18°R38	15°R23	14♎55	14♏14	5°R17			
S 2	0 42 2	8°35'29	10♋0	13♏22	21°42	14°15	26°11	22°58	26°10	20♑44	18♒37	15♓23	14°51	14°21	5♑15			
M 3	0 45 59	9°34'36	23°26	12°14	22°56	14°51	26°13	23° 2	26°11	20°43	18°36	15°23	14°48	14°28	5°12			
T 4	0 49 55	10°33'43	6♋34	11° 4	24°11	15°27	26°16	23° 5	26°13	20°41	18°35	15°21	14°45	14°34	5° 9			
W 5	0 53 52	11°32'53	19°27	9°55	25°25	16° 3	26°18	23° 9	26°14	20°39	18°35	15°18	14°42	14°41	5° 6			
T 6	0 57 48	12°32'05	2♈7	8°48	26°40	16°39	26°20	23°12	26°16	20°38	18°34	15°12	14°39	14°48	5° 4			
F 7	1 1 45	13°31'18	14°37	7°46	27°55	17°14	26°21	23°16	26°17	20°36	18°33	15° 3	14°36	14°54	5° 1			
S 8	1 5 41	14°30'33	26°57	6°49	29° 9	17°50	26°23	23°20	26°19	20°34	18°32	14°51	14°32	15° 1	4°58			
S 9	1 9 38	15°29'50	9♑9	6° 1	0♒24	18°26	26°24	23°24	26°20	20°33	18°31	14°37	14°29	15° 8	4°55			
M10	1 13 35	16°29'10	21°13	5°21	1°39	19° 1	26°25	23°28	26°21	20°31	18°30	14°23	14°26	15°15	4°53			
T 11	1 17 31	17°28'31	3♌11	4°52	2°54	19°36	26°26	23°32	26°22	20°29	18°29	14° 9	14°23	15°21	4°50			
W12	1 21 28	18°27'54	15° 4	4°33	4° 8	20°12	26°27	23°36	26°24	20°28	18°28	13°56	14°20	15°28	4°47			
T 13	1 25 24	19°27'20	26°54	4°D25	5°23	20°47	26°27	23°40	26°25	20°26	18°27	13°46	14°17	15°35	4°45			
F 14	1 29 21	20°26'48	8♐43	4°28	6°38	21°22	26°28	23°45	26°26	20°24	18°26	13°39	14°13	15°41	4°42			
S 15	1 33 17	21°26'18	20°35	4°42	7°53	21°57	26°R28	23°49	26°27	20°23	18°25	13°35	14°10	15°48	4°39			
S 16	1 37 14	22°25'50	2♌34	5° 7	9° 8	22°32	26°28	23°54	26°28	20°21	18°24	13°33	14° 7	15°55	4°37			
M17	1 41 10	23°25'25	14°45	5°41	10°23	23° 7	26°27	23°58	26°29	20°19	18°23	13°D33	14° 4	16° 1	4°34			
T 18	1 45 7	24°25'02	27°12	6°23	11°38	23°41	26°27	24° 3	26°29	20°18	18°22	13°R33	14° 1	16° 8	4°31			
W19	1 49 4	25°24'41	10♑2	7°15	12°53	24°16	26°26	24° 7	26°30	20°16	18°21	13°32	13°57	16°15	4°29			
T 20	1 53 0	26°24'23	23°18	8°13	14° 8	24°51	26°25	24°12	26°31	20°14	18°20	13°30	13°54	16°22	4°26			
F 21	1 56 57	27°24'06	7♒4	9°18	15°23	25°25	26°24	24°17	26°32	20°13	18°19	13°25	13°51	16°28	4°24			
S 22	2 0 53	28°23'52	21°20	10°29	16°38	26° 0	26°23	24°22	26°32	20°11	18°18	13°17	13°48	16°35	4°21			
S 23	2 4 50	29°23'40	6♌3	11°44	17°53	26°34	26°21	24°27	26°33	20° 9	18°17	13° 7	13°45	16°42	4°19			
M24	2 8 46	0♍23°31	21° 8	13° 4	19° 8	27° 8	26°20	24°32	26°33	20° 8	18°16	12°57	13°42	16°48	4°16			
T 25	2 12 43	1°23'23	6♎24	14°28	20°23	27°42	26°18	24°37	26°34	20° 6	18°15	12°46	13°38	16°55	4°14			
W26	2 16 39	2°23'17	21°40	15°54	21°38	28°16	26°16	24°42	26°34	20° 4	18°14	12°37	13°35	17° 2	4°12			
T 27	2 20 36	3°23'13	6♑45	17°24	22°54	28°50	26°13	24°47	26°35	20° 3	18°13	12°30	13°32	17° 8	4° 9			
F 28	2 24 33	4°23'11	21°32	18°55	24° 9	29°24	26°11	24°53	26°35	20° 1	18°12	12°26	13°29	17°15	4° 7			
S 29	2 28 29	5°23'11	5♓53	20°28	25°24	29°58	26° 8	24°58	26°35	20° 0	18°11	12°24	13°26	17°22	4° 5			
S 30	2 32 26	6°23'12	19°49	22° 2	26°39	0♒31	26° 5	25° 3	26°35	19°58	18°10	12°D24	13°23	17°29	4° 3			
M31	2 36 22	7♎23°15	3♌18	23♏37	27♐54	1♑5	26♐2	25♑9	26♓35	19♑56	18♒9	12°R25	13♓19	17♏35	4♑0			

Day	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
S 1	3s 1	21s45	1n39	8s29	3s 0	5n 6	1n26	17n55	1n14	22n50	0s34	22s16	1n 0	21n25	0n29	6n31	1s44	2n39	15s18	22n34	22n37	11n50	4n48	2n57
S 2	3 25	22 36	0 28	7 50	2 46	4 37	1 26	17 45	1 14	22 50	0 34	22 16	1 0	21 25	0 29	6 30	1 44	2 38	15 18	22 34	22 38	11 52	4 47	2 57
M 3	3 48	22 7	0s42	7 8	2 30	4 8	1 27	17 35	1 15	22 50	0 34	22 17	1 0	21 24	0 29	6 29	1 44	2 38	15 18	22 34	22 38	11 55	4 46	2 57
T 4	4 11	20 25	1 49	6 25	2 12	3 39	1 27	17 25	1 16	22 50	0 34	22 17	0 59	21 24	0 29	6 29	1 44	2 38	15 18	22 34	22 38	11 57	4 45	2 56
W 5	4 34	17 41	2 49	5 40	1 53	3 10	1 28	17 15	1 17	22 50	0 34	22 17	0 59	21 24	0 29	6 28	1 44	2 37	15 18	22 35	22 39	11 59	4 44	2 56
T 6	4 57	14 9	3 40	4 55	1 33	2 41	1 28	17 5	1 17	22 50	0 34	22 18	0 59	21 24	0 29	6 27	1 44	2 37	15 19	22 35	22 39	12 2	4 42	2 56
F 7	5 20	10 2	4 19	4 12	1 13	2 11	1 29	16 55	1 18	22 50	0 34	22 18	0 59	21 23	0 29	6 27	1 44	2 36	15 19	22 36	22 39	12 4	4 41	2 56
S 8	5 43	5 34	4 45	3 31	0 53	1 42	1 29	16 45	1 19	22 50	0 34	22 19	0 59	21 23	0 29	6 26	1 44	2 36	15 19	22 38	22 40	12 6	4 40	2 56
S 9	6 6	0 56	4 58	2 53	0 32	1 12	1 29	16 35	1 20	22 50	0 34	22 19	0 59	21 23	0 30	6 25	1 44	2 36	15 19	22 39	22 40	12 9	4 39	2 56
M10	6 29	3n41	4 57	2 19	0 12	0 42	1 29	16 24	1 20	22 50	0 34	22 19	0 58	21 23	0 30	6 25	1 44	2 35	15 19	22 41	22 40	12 11	4 38	2 56
T 11	6 52	8 9	4 43	1 50	0n 7	0 13	1 29	16 14	1 21	22 50	0 34	22 20	0 58	21 23	0 30	6 24	1 44	2 35	15 19	22 42	22 41	12 13	4 37	2 56
W12	7 15	12 16	4 17	1 26	0 25	0s17	1 29	16 3	1 22	22 50	0 34	22 20	0 58	21 22	0 30	6 24	1 44	2 35	15 19	22 44	22 41	12 16	4 35	2 56
T 13	7 37	15 55	3 40	1 8	0 41	0 47	1 29	15 53	1 23	22 50	0 34	22 20	0 58	21 22	0 30	6 23	1 44	2 34	15 20	22 45	22 41	12 18	4 34	2 56
F 14	8 0	18 55	2 53	0 55	0 56	1 17	1 29	15 42	1 23	22 50	0 34	22 21	0 58	21 22	0 30	6 22	1 44	2 34	15 20	22 45	22 42	12 20	4 33	2 55
S 15	8 22	21 9	1 58	0 48	1 10	1 46	1 29	15 32	1 24	22 51	0 34	22 21	0 58	21 22	0 30	6 22	1 44	2 33	15 20	22 46	22 42	12 23	4 32	2 55
S 16	8 44	22 28	0 58	0 47	1 22	2 16	1 28	15 21	1 25	22 51	0 34	22 21	0 58	21 22	0 30	6 21	1 44	2 33	15 20	22 46	22 42	12 25	4 31	2 55
M17	9 6	22 45	0n 6	0 51	1 32	2 46	1 28	15 10	1 25	22 51	0 34	22 22	0 57	21 22	0 30	6 20	1 44	2 33	15 20	22 46	22 43	12 27	4 30	2 55
T 18	9 28	21 54	1 12	1 0	1 41	3 16	1 28	14 59	1 26	22 51	0 34	22 22	0 57	21 21	0 30	6 20	1 44	2 32	15 20	22 46	22 43	12 30	4 28	2 55
W19	9 50	19 55	2 15	1 13	1 48	3 45	1 27	14 48	1 27	22 51	0 34	22 22	0 57	21 21	0 30	6 19	1 44	2 32	15 20	22 46	22 43	12 32	4 27	2 55
T 20	10 12	16 49	3 14	1 31	1 54	4 15	1 27	14 38	1 28	22 51	0 34	22 23	0 57	21 21	0 30	6 19	1 44	2 32	15 20	22 46	22 44	12 35	4 26	2 55
F 21	10 33	12 41	4 4	1 52	1 59	4 44	1 26	14 27	1 28	22 51	0 34	22 23	0 57	21 21	0 30	6 18	1 44	2 31	15 20	22 47	22 44	12 37	4 25	2 55
S 22	10 55	7 44	4 40	2 17	2 2	5 14	1 25	14 16	1 29	22 51	0 34	22 23	0 57	21 21	0 30	6 17	1 44	2 31	15 21	22 48	22 44	12 39	4 24	2 54
S 23	11 16	2 11	4 59	2 44	2 4	5 43	1 24	14 5	1 30	22 51	0 34	22 24	0 57	21 21	0 30	6 17	1 44	2 31	15 21	22 48	22 45	12 42	4 23	2 54
M24	11 37	3s38	4 59	3 14	2 6	6 12	1 24	13 54	1 31	22 51	0 34	22 24	0 56	21 21	0 30	6 16	1 44	2 30	15 21	22 50	22 45	12 44	4 22	2 54
T 25	11 58	9 18	4 37	3 46	2 6	6 42	1 23	13 43	1 32	22 50	0 34	22 25	0 56	21 21	0 30	6 15	1 44	2 30	15 21	22 51	22 45	12 46	4 21	2 54
W26	12 19	14 24	3 55	4 20	2 5	7 11	1 22	13 32	1 32	22 50	0 34	22 25	0 56	21 21	0 30	6 15	1 44	2 30	15 21	22 51	22 46	12 49	4 20	2 54
T 27	12 39	18 32	2 57	4 56	2 3	7 39	1 21																	

SWISS EPHEMERIS for the year 1870

NOVEMBER 1870

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	2 40 19	8♏23'19	16♌24	25♏14	29♏10	1♏38	25°R59	25♏14	26♏36	19°R55	18°R 7	12°R24	13♏16	17♏42	3°R58	
W 2	2 44 15	9°23'25	29°11	26°50	0♏25	2°11	25♏55	25°20	26°R36	19°V53	18°R 6	12♏22	13°13	17°49	3°V56	
T 3	2 48 12	10°23'32	11♏42	28°28	1°40	2°44	25°52	25°26	26°36	19°52	18° 5	12°18	13°10	17°55	3°54	
F 4	2 52 8	11°23'41	24° 0	0♏ 5	2°55	3°17	25°48	25°31	26°35	19°50	18° 4	12°11	13° 7	18° 2	3°52	
S 5	2 56 5	12°23'52	6♏ 9	1°43	4°11	3°50	25°44	25°37	26°35	19°49	18° 3	12° 2	13° 3	18° 9	3°50	
S 6	3 0 2	13°24'04	18°10	3°21	5°26	4°23	25°40	25°43	26°35	19°47	18° 2	11°51	13° 0	18°15	3°48	
M 7	3 3 58	14°24'17	0♏ 7	4°59	6°41	4°56	25°35	25°49	26°35	19°46	18° 1	11°39	12°57	18°22	3°46	
T 8	3 7 55	15°24'33	12° 0	6°36	7°57	5°28	25°31	25°55	26°35	19°44	18° 0	11°28	12°54	18°29	3°44	
W 9	3 11 51	16°24'50	23°51	8°14	9°12	6° 1	25°26	26° 1	26°34	19°43	17°59	11°18	12°51	18°36	3°42	
T 10	3 15 48	17°25'09	5♏42	9°52	10°27	6°33	25°21	26° 7	26°34	19°41	17°57	11°10	12°48	18°42	3°40	
F 11	3 19 44	18°25'30	17°33	11°29	11°43	7° 5	25°16	26°13	26°33	19°40	17°56	11° 5	12°44	18°49	3°38	
S 12	3 23 41	19°25'53	29°29	13° 6	12°58	7°37	25°11	26°19	26°33	19°38	17°55	11° 2	12°41	18°56	3°37	
S 13	3 27 37	20°26'17	11♏31	14°43	14°13	8° 9	25° 5	26°25	26°32	19°37	17°54	11°D 1	12°38	19° 2	3°35	
M14	3 31 34	21°26'44	23°44	16°20	15°29	8°41	25° 0	26°31	26°32	19°36	17°53	11° 1	12°35	19° 9	3°33	
T 15	3 35 31	22°27'12	6♏11	17°56	16°44	9°12	24°54	26°37	26°31	19°34	17°52	11° 3	12°32	19°16	3°32	
W16	3 39 27	23°27'42	18°58	19°32	17°59	9°44	24°48	26°44	26°30	19°33	17°51	11°R 4	12°28	19°22	3°30	
T 17	3 43 24	24°28'14	2♏ 7	21° 8	19°15	10°15	24°42	26°50	26°30	19°32	17°50	11° 4	12°25	19°29	3°29	
F 18	3 47 20	25°28'47	15°44	22°44	20°30	10°47	24°36	26°56	26°29	19°30	17°48	11° 2	12°22	19°36	3°27	
S 19	3 51 17	26°29'23	29°48	24°19	21°46	11°18	24°29	27° 3	26°28	19°29	17°47	10°58	12°19	19°42	3°26	
S 20	3 55 13	27°30'00	14♏20	25°54	23° 1	11°49	24°23	27° 9	26°27	19°28	17°46	10°52	12°16	19°49	3°24	
M21	3 59 10	28°30'39	29°16	27°29	24°17	12°19	24°16	27°16	26°26	19°27	17°45	10°46	12°13	19°56	3°23	
T 22	4 3 6	29°31'19	14♏27	29° 4	25°32	12°50	24°10	27°22	26°25	19°25	17°44	10°39	12° 9	20° 3	3°22	
W23	4 7 3	0♏32'01	29°44	0♏39	26°48	13°21	24° 3	27°29	26°24	19°24	17°43	10°33	12° 6	20° 9	3°21	
T 24	4 11 0	1°32'45	14♏56	2°14	28° 3	13°51	23°56	27°35	26°23	19°23	17°42	10°29	12° 3	20°16	3°20	
F 25	4 14 56	2°33'29	29°53	3°48	29°19	14°21	23°49	27°42	26°21	19°22	17°41	10°27	12° 0	20°23	3°18	
S 26	4 18 53	3°34'15	14♏28	5°22	0♏34	14°51	23°41	27°49	26°20	19°21	17°40	10°D27	11°57	20°29	3°17	
S 27	4 22 49	4°35'02	28°36	6°56	1°49	15°21	23°34	27°55	26°19	19°20	17°39	10°28	11°54	20°36	3°16	
M28	4 26 46	5°35'50	12♏16	8°31	3° 5	15°50	23°27	28° 2	26°18	19°19	17°38	10°29	11°50	20°43	3°15	
T 29	4 30 42	6°36'39	25°30	10° 5	4°20	16°20	23°19	28° 9	26°16	19°18	17°36	10°31	11°47	20°49	3°15	
W30	4 34 39	7°37'29	8♏20	11°38	5°36	16°49	23°12	28°16	26°15	19°17	17°35	10°R31	11♏44	20♏56	3°V14	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	14s19	18s39	2s51	8s 7	1n47	10s 1	1n15	12n25	1n37	22n50	0s34	22s27	0n55	21n21	0n30	6n11
W 2	14 38	15 14	3 42	8 46	1 42	10 29	1 14	12 13	1 38	22 50	0 33	22 27	0 55	21 21	0 30	6 11
T 3	14 57	11 13	4 22	9 26	1 37	10 56	1 12	12 2	1 39	22 50	0 33	22 28	0 55	21 21	0 30	6 10
F 4	15 16	6 48	4 49	10 5	1 31	11 23	1 11	11 51	1 39	22 50	0 33	22 28	0 55	21 21	0 30	6 10
S 5	15 34	2 11	5 2	10 44	1 26	11 50	1 9	11 40	1 40	22 50	0 33	22 28	0 55	21 21	0 30	6 9
S 6	15 52	2n28	5 2	11 23	1 20	12 17	1 8	11 29	1 41	22 50	0 33	22 28	0 55	21 21	0 30	6 9
M 7	16 10	7 1	4 49	12 2	1 14	12 43	1 6	11 17	1 42	22 50	0 33	22 29	0 55	21 21	0 31	6 8
T 8	16 28	11 17	4 22	12 40	1 7	13 9	1 4	11 6	1 43	22 50	0 33	22 29	0 54	21 21	0 31	6 7
W 9	16 45	15 7	3 45	13 18	1 1	13 35	1 3	10 55	1 43	22 49	0 33	22 29	0 54	21 21	0 31	6 7
T 10	17 3	18 21	2 58	13 55	0 54	14 0	1 1	10 44	1 44	22 49	0 33	22 30	0 54	21 21	0 31	6 6
F 11	17 19	20 50	2 3	14 32	0 48	14 25	0 59	10 33	1 45	22 49	0 33	22 30	0 54	21 22	0 31	6 6
S 12	17 36	22 26	1 2	15 8	0 41	14 50	0 57	10 21	1 46	22 49	0 33	22 30	0 54	21 22	0 31	6 5
S 13	17 52	23 0	0n 3	15 43	0 34	15 14	0 56	10 10	1 47	22 49	0 33	22 31	0 54	21 22	0 31	6 5
M14	18 8	22 29	1 8	16 18	0 27	15 38	0 54	9 59	1 48	22 49	0 33	22 31	0 54	21 22	0 31	6 4
T 15	18 24	20 52	2 12	16 51	0 21	16 1	0 52	9 48	1 48	22 49	0 33	22 31	0 54	21 22	0 31	6 4
W16	18 39	18 10	3 10	17 24	0 14	16 24	0 50	9 37	1 49	22 49	0 33	22 31	0 54	21 22	0 31	6 3
T 17	18 54	14 28	4 1	17 57	0 7	16 47	0 48	9 26	1 50	22 48	0 33	22 32	0 53	21 22	0 31	6 3
F 18	19 9	9 56	4 40	18 28	0 0	17 9	0 46	9 15	1 51	22 48	0 33	22 32	0 53	21 23	0 31	6 2
S 19	19 23	4 43	5 3	18 58	0s 7	17 31	0 44	9 3	1 52	22 48	0 32	22 32	0 53	21 23	0 31	6 2
S 20	19 37	0s55	5 9	19 28	0 13	17 52	0 41	8 52	1 53	22 48	0 32	22 32	0 53	21 23	0 31	6 2
M21	19 50	6 38	4 53	19 56	0 20	18 13	0 39	8 41	1 54	22 48	0 32	22 33	0 53	21 23	0 31	6 1
T 22	20 4	12 5	4 17	20 24	0 26	18 33	0 37	8 31	1 55	22 47	0 32	22 33	0 53	21 24	0 31	6 1
W23	20 17	16 48	3 23	20 50	0 33	18 53	0 35	8 20	1 55	22 47	0 32	22 33	0 53	21 24	0 31	6 0
T 24	20 29	20 23	2 14	21 16	0 39	19 12	0 33	8 9	1 56	22 47	0 32	22 33	0 53	21 24	0 31	6 0
F 25	20 41	22 30	0 57	21 40	0 45	19 31	0 30	7 58	1 57	22 47	0 32	22 34	0 53	21 24	0 31	6 0
S 26	20 53	23 2	0s22	22 4	0 52	19 49	0 28	7 47	1 58	22 47	0 32	22 34	0 52	21 25	0 31	5 59
S 27	21 4	22 3	1 37	22 26	0 58	20 7	0 26	7 36	1 59	22 46	0 32	22 34	0 52	21 25	0 31	5 59
M28	21 15	19 46	2 45	22 47	1 4	20 24	0 24	7 26	2 0	22 46	0 32	22 34	0 52	21 25	0 31	5 58
T 29	21 26	16 30	3 41	23 7	1 9	20 41	0 21	7 15	2 1	22 46	0 32	22 34	0 52	21 25	0 31	5 58
W30	21s26	12s33	4s25	23s26	1s15	20s57	0n19	7n 5	2n 2	22n45	0s31	22s35	0n52	21n26	0n31	5n58

Julian Day Number = 2404367.5, Delta T = 0.26 sec
 Ecliptic obliquity = 23°27'20", Nutation = - 0°00'18"
 Ayanamsha: Fagan/Bradley = 22°56'12", Lahiri = 22°03'12"

Day	Sid.t	☉	☾	♀	♁	♂	♃	♅	♁	♄	♅	♁	♁	♄	♅
T 1	4 38 35	8♁38'19"	20♄50	13♁12	6♁51	17♄18	23°R 4	28♁22	26°R13	19°R16	17°R34	10°R30	11♄41	21♄3	3°R13
F 2	4 42 32	9°39'11"	3♄5	14°46	8°7	17°47	22II56	28°29	26♄12	19♄15	17♄33	10♄28	11°38	21°10	3♄12
S 3	4 46 29	10°40'03"	15°8	16°20	9°22	18°16	22°48	28°36	26°10	19°14	17°32	10°24	11°34	21°16	3°11
S 4	4 50 25	11°40'56"	27°4	17°54	10°38	18°44	22°40	28°43	26°9	19°13	17°31	10°20	11°31	21°23	3°11
M 5	4 54 22	12°41'50"	8♄56	19°27	11°53	19°13	22°33	28°50	26°7	19°12	17°30	10°14	11°28	21°30	3°10
T 6	4 58 18	13°42'45"	20°47	21°1	13°9	19°41	22°25	28°57	26°5	19°11	17°29	10°9	11°25	21°36	3°10
W 7	5 2 15	14°43'41"	2II38	22°35	14°24	20°9	22°17	29°4	26°4	19°11	17°28	10°5	11°22	21°43	3°9
T 8	5 6 11	15°44'37"	14°32	24°9	15°40	20°37	22°8	29°11	26°2	19°10	17°27	10°2	11°19	21°50	3°9
F 9	5 10 8	16°45'35"	26°31	25°42	16°55	21°4	22°0	29°18	26°0	19°9	17°26	10°0	11°15	21°56	3°9
S 10	5 14 4	17°46'33"	8♄36	27°16	18°11	21°31	21°52	29°25	25°58	19°8	17°25	9°D59	11°12	22°3	3°8
S 11	5 18 1	18°47'33"	20°49	28°50	19°26	21°59	21°44	29°32	25°56	19°8	17°24	9°59	11°9	22°10	3°8
M 12	5 21 58	19°48'33"	3II13	0♄24	20°42	22°25	21°36	29°39	25°54	19°7	17°24	10°1	11°6	22°16	3°8
T 13	5 25 54	20°49'35"	15°49	1°57	21°57	22°52	21°28	29°46	25°52	19°6	17°23	10°2	11°3	22°23	3°8
W 14	5 29 51	21°50'37"	28°41	3°31	23°13	23°18	21°20	29°53	25°50	19°6	17°22	10°4	11°0	22°30	3°8
T 15	5 33 47	22°51'40"	11♄51	5°5	24°28	23°45	21°11	29°59	25°48	19°5	17°21	10°5	10°56	22°37	3°D 8
F 16	5 37 44	23°52'44"	25°22	6°38	25°44	24°11	21°3	0♄7	25°46	19°5	17°20	10°R 5	10°53	22°43	3°8
S 17	5 41 40	24°53'49"	9♄14	8°11	26°59	24°36	20°55	0°14	25°44	19°4	17°19	10°4	10°50	22°50	3°8
S 18	5 45 37	25°54'55"	23°29	9°44	28°15	25°2	20°47	0°21	25°42	19°4	17°18	10°3	10°47	22°57	3°8
M 19	5 49 33	26°56'02"	8II4	11°17	29°30	25°27	20°39	0°28	25°40	19°3	17°17	10°2	10°44	23°3	3°8
T 20	5 53 30	27°57'09"	22°54	12°49	0♄46	25°52	20°31	0°35	25°38	19°3	17°17	10°0	10°40	23°10	3°9
W 21	5 57 27	28°58'18"	7♁52	14°21	2°1	26°16	20°23	0°42	25°35	19°3	17°16	9°59	10°37	23°17	3°9
T 22	6 1 23	29°59'27"	22°52	15°52	3°17	26°41	20°15	0°49	25°33	19°2	17°15	9°58	10°34	23°23	3°9
F 23	6 5 20	1♄0'36	7♄43	17°22	4°32	27°5	20°7	0°56	25°31	19°2	17°14	9°D58	10°31	23°30	3°10
S 24	6 9 16	2°1'46	22°19	18°51	5°48	27°28	19°59	1°3	25°29	19°2	17°13	9°58	10°28	23°37	3°10
S 25	6 13 13	3°2'56	6♁33	20°19	7°3	27°52	19°51	1°11	25°26	19°2	17°13	9°58	10°25	23°43	3°11
M 26	6 17 9	4°4'06	20°21	21°45	8°19	28°15	19°44	1°18	25°24	19°2	17°12	9°59	10°21	23°50	3°11
T 27	6 21 6	5°5'16	3♄44	23°10	9°34	28°38	19°36	1°25	25°21	19°1	17°11	9°59	10°18	23°57	3°12
W 28	6 25 3	6°6'26	16°41	24°32	10°50	29°0	19°28	1°32	25°19	19°1	17°11	10°0	10°15	24°3	3°13
T 29	6 28 59	7°7'35	29°17	25°52	12°5	29°23	19°21	1°39	25°17	19°1	17°10	10°0	10°12	24°10	3°14
F 30	6 32 56	8°8'45	11♄34	27°8	13°21	29°44	19°14	1°46	25°14	19°1	17°9	10°R 0	10°9	24°17	3°14
S 31	6 36 52	9♄9'54	23♄38	28♄21	14♄36	0♄6	19II 6	1♄53	25♄12	19°D 1	17♄9	10♄0	10♄6	24♄24	3♄15

Day	☉		☾		♀		♁		♂		♃		♅		♁		♄		♅					
	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
T 1	21s46	8s9	4s55	23s44	1s20	21s12	0n17	6n54	2n3	22n45	0s31	22s35	0n52	21n26	0n31	5n57	1s43	2n21	15s19	23n2	22n56	14n11	3n50	2n47
F 2	21 55	3 31	5 10	24 0	1 26	21 26	0 14	6 44	2 4	22 45	0 31	22 35	0 52	21 26	0 31	5 57	1 43	2 21	15 19	23 3	22 57	14 13	3 49	2 47
S 3	22 4	1n10	5 12	24 15	1 31	21 41	0 12	6 33	2 5	22 45	0 31	22 35	0 52	21 27	0 31	5 57	1 43	2 20	15 19	23 3	22 57	14 16	3 49	2 47
S 4	22 12	5 46	5 0	24 29	1 35	21 54	0 9	6 23	2 5	22 44	0 31	22 35	0 52	21 27	0 31	5 57	1 43	2 20	15 19	23 3	22 57	14 18	3 49	2 46
M 5	22 20	10 9	4 35	24 42	1 40	22 7	0 7	6 13	2 6	22 44	0 31	22 35	0 52	21 27	0 31	5 56	1 43	2 20	15 19	23 4	22 58	14 20	3 48	2 46
T 6	22 28	14 8	3 58	24 53	1 44	22 19	0 5	6 2	2 7	22 44	0 31	22 36	0 52	21 28	0 31	5 56	1 43	2 20	15 19	23 4	22 58	14 22	3 48	2 46
W 7	22 35	17 35	3 11	25 3	1 49	22 30	0 2	5 52	2 8	22 43	0 31	22 36	0 51	21 28	0 31	5 56	1 43	2 20	15 18	23 4	22 58	14 25	3 47	2 46
T 8	22 42	20 19	2 16	25 12	1 53	22 41	0s 0	5 42	2 9	22 43	0 30	22 36	0 51	21 28	0 32	5 55	1 43	2 20	15 18	23 5	22 58	14 27	3 47	2 45
F 9	22 48	22 11	1 14	25 19	1 56	22 51	0 2	5 32	2 10	22 43	0 30	22 36	0 51	21 29	0 32	5 55	1 43	2 20	15 18	23 5	22 59	14 29	3 47	2 45
S 10	22 54	23 3	0 8	25 25	2 0	23 1	0 5	5 22	2 11	22 42	0 30	22 36	0 51	21 29	0 32	5 55	1 43	2 20	15 18	23 5	22 59	14 32	3 46	2 45
S 11	22 59	22 49	0n59	25 30	2 3	23 9	0 7	5 13	2 12	22 42	0 30	22 36	0 51	21 29	0 32	5 55	1 42	2 20	15 18	23 5	22 59	14 34	3 46	2 45
M 12	23 4	21 28	2 5	25 33	2 5	23 17	0 10	5 3	2 13	22 41	0 30	22 36	0 51	21 30	0 32	5 55	1 42	2 20	15 18	23 5	22 59	14 36	3 46	2 45
T 13	23 8	19 3	3 5	25 34	2 8	23 25	0 12	4 53	2 14	22 41	0 30	22 36	0 51	21 30	0 32	5 54	1 42	2 20	15 17	23 5	23 0	14 38	3 46	2 44
W 14	23 12	15 39	3 58	25 34	2 10	23 31	0 14	4 44	2 15	22 41	0 30	22 36	0 51	21 31	0 32	5 54	1 42	2 20	15 17	23 4	23 0	14 40	3 45	2 44
T 15	23 16	11 25	4 39	25 33	2 12	23 37	0 17	4 34	2 16	22 40	0 30	22 37	0 51	21 31	0 32	5 54	1 42	2 20	15 17	23 4	23 0	14 43	3 45	2 44
F 16	23 19	6 31	5 6	25 30	2 13	23 42	0 19	4 25	2 17	22 40	0 29	22 37	0 51	21 31	0 32	5 54	1 42	2 20	15 17	23 4	23 1	14 45	3 45	2 44
S 17	23 21	1 11	5 16	25 26	2 14	23 47	0 21	4 16	2 18	22 40	0 29	22 37	0 51	21 32	0 32	5 54	1 42	2 20	15 17	23 4	23 1	14 47	3 45	2 43
S 18	23 24	4s21	5 8	25 20	2 14	23 50	0 24	4 7	2 19	22 39	0 29	22 37	0 51	21 32	0 32	5 54	1 42	2 20	15 16	23 4	23 1	14 49	3 45	2 43
M 19	23 25	9 47	4 40	25 12	2 14	23 53	0 26	3 58	2 20	22 39	0 29	22 37	0 51	21 33	0 32	5 54	1 42	2 20	15 16	23 5	23 1	14 52	3 44	2 43
T 20	23 26	14 46	3 52	25 3	2 14	23 56	0 28	3 49	2 22	22 38	0 29	22 37	0 50	21 33	0 32	5 54	1 42	2 20	15 16	23 5	23 2	14 54	3 44	2 43
W 21	23 27	18 52	2 49	24 53	2 12	23 57	0 31	3 40	2 23	22 38	0 29	22 37	0 50	21 34	0 32	5 53	1 42	2 20	15 16	23 5	23 2	14 56	3 44	2 43
T 22	23 27	21 42	1 33	24 41	2 11	23 58	0 33	3 31	2 24	22 37	0 28	22 37	0 50	21 34	0 32	5 53	1 42	2 20	15 15	23 5	23 2	14 58	3 44	2 42
F 23	23 27	23 1	0 12	24 27	2 9	23 58	0 35	3 23	2 25	22 37	0 28	22 37	0 50	21 34	0 32	5 53	1 42	2 20	15 15	23 5	23 2	15 1	3 44	2 42
S 24	23 26	22 44	1s 8	24 12	2 6	23 57	0 37	3 14	2 26	22 37	0 28	22 37	0 50	21 35	0 32	5 53	1 42	2 20	15 15	23 5	23 3	15 3	3 44	2 42
S 25	23 25	20 57	2 22	23 56	2 2	23 55	0 39	3 6	2 27	22 36	0 28	22 37	0 50	21 35	0 32	5 53	1 42	2 20	15 15	23 5	23 3	15 5	3 44	2 42
M 26	23 24	17 58	3 26	23 38	1 58	23 53	0 42	2 58	2 28	22 36	0 28	22 37	0 50	21 36	0 32	5 53	1 42	2 20	15 14	23 5	23 3	15 7	3 44	2 41
T 27	23 21	14 7	4 16	23 19	1 53	23 50	0 44	2 49	2 29	22 35	0 28	22 37	0 50	21 36	0 32	5 53	1 42	2 20	15 14	23 5	23 3	15 9	3 44	2 41
W 28	23 19	9 44	4 52	22 59	1 47	23 46	0 46	2 42	2 30	22 35	0 27	22 37	0 50	21 37	0 32	5 53	1 42	2 20	15 14	23 5	23 4	15 12	3 44	2 41
T 29	23 16	5 3	5 12	22 38	1 40	23 42	0 48	2 34	2 31															