

SWISS EPHEMERIS for the year 1890

JANUARY 1890

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	6 42 23	10°34'55	13°14	24°20	28°57	29°59	17°50	3°R38	26°18	2°R12	5°R20	3°2	2°32	17°28	19°R49	
T 2	6 46 19	11°36'04	25°29	25°55	0°12	0°M33	18° 4	3°M36	26°20	2°M11	5°M19	3° 3	2°29	17°35	19°R44	
F 3	6 50 16	12°37'13	7°M33	27°29	1°27	1° 7	18°18	3°34	26°21	2°10	5°18	3° 4	2°26	17°42	19°40	
S 4	6 54 13	13°38'22	19°30	29° 3	2°43	1°40	18°32	3°32	26°23	2° 9	5°17	3° 4	2°23	17°48	19°36	
S 5	6 58 9	14°39'31	1°21	0°36	3°58	2°14	18°46	3°29	26°24	2° 8	5°17	3°R 5	2°20	17°55	19°32	
M 6	7 2 6	15°40'39	13° 9	2° 7	5°14	2°47	19° 0	3°27	26°26	2° 6	5°16	3° 4	2°16	18° 2	19°27	
T 7	7 6 2	16°41'47	24°57	3°36	6°29	3°21	19°14	3°24	26°27	2° 5	5°15	3° 4	2°13	18° 8	19°23	
W 8	7 9 59	17°42'55	6°M47	5° 4	7°45	3°54	19°28	3°22	26°28	2° 4	5°14	3° 2	2°10	18°15	19°19	
T 9	7 13 55	18°44'03	18°40	6°29	9° 0	4°27	19°42	3°19	26°29	2° 3	5°13	2°59	2° 7	18°22	19°14	
F 10	7 17 52	19°45'11	0°M40	7°51	10°15	5° 0	19°56	3°16	26°31	2° 2	5°13	2°57	2° 4	18°28	19°10	
S 11	7 21 49	20°46'18	12°47	9°10	11°31	5°33	20°10	3°14	26°32	2° 1	5°12	2°54	2° 1	18°35	19° 6	
S 12	7 25 45	21°47'25	25° 6	10°25	12°46	6° 6	20°24	3°11	26°33	2° 0	5°11	2°52	1°57	18°42	19° 2	
M13	7 29 42	22°48'33	7°M40	11°35	14° 2	6°39	20°38	3° 8	26°34	1°59	5°10	2°50	1°54	18°48	18°57	
T 14	7 33 38	23°49'39	20°32	12°40	15°17	7°12	20°52	3° 4	26°35	1°58	5°10	2°D49	1°51	18°55	18°53	
W15	7 37 35	24°50'46	3°M46	13°39	16°32	7°44	21° 6	3° 1	26°36	1°57	5° 9	2°49	1°48	19° 2	18°49	
T 16	7 41 31	25°51'53	17°23	14°31	17°48	8°17	21°20	2°58	26°37	1°57	5° 8	2°50	1°45	19° 8	18°44	
F 17	7 45 28	26°52'59	1°M26	15°14	19° 3	8°49	21°34	2°55	26°37	1°56	5° 8	2°52	1°42	19°15	18°40	
S 18	7 49 24	27°54'05	15°54	15°49	20°19	9°22	21°48	2°51	26°38	1°55	5° 7	2°53	1°38	19°22	18°36	
S 19	7 53 21	28°55'11	0°M44	16°14	21°34	9°54	22° 2	2°48	26°39	1°54	5° 6	2°R54	1°35	19°28	18°32	
M20	7 57 18	29°56'16	15°50	16°29	22°49	10°26	22°16	2°44	26°39	1°53	5° 6	2°53	1°32	19°35	18°27	
T 21	8 1 14	0°M57'21	1°M 4	16°R33	24° 5	10°58	22°30	2°40	26°40	1°53	5° 5	2°51	1°29	19°42	18°23	
W22	8 5 11	1°58'25	16°15	16°25	25°20	11°30	22°44	2°37	26°41	1°52	5° 5	2°48	1°26	19°48	18°19	
T 23	8 9 7	2°59'28	1°M15	16° 6	26°36	12° 2	22°58	2°33	26°41	1°51	5° 4	2°44	1°22	19°55	18°15	
F 24	8 13 4	4° 0'30	15°53	15°36	27°51	12°34	23°12	2°29	26°41	1°51	5° 3	2°39	1°19	20° 1	18°11	
S 25	8 17 0	5° 1'30	0°M 6	14°54	29° 6	13° 5	23°26	2°25	26°42	1°50	5° 3	2°35	1°16	20° 8	18° 7	
S 26	8 20 57	6° 2'30	13°49	14° 3	0°M22	13°37	23°40	2°21	26°42	1°50	5° 2	2°31	1°13	20°15	18° 3	
M27	8 24 53	7° 3'28	27° 4	13° 3	1°37	14° 8	23°54	2°17	26°42	1°49	5° 2	2°29	1°10	20°21	17°59	
T 28	8 28 50	8° 4'26	9°M53	11°57	2°52	14°39	24° 8	2°13	26°42	1°49	5° 2	2°D29	1° 7	20°28	17°55	
W29	8 32 47	9° 5'22	22°20	10°46	4° 8	15°10	24°22	2° 8	26°43	1°48	5° 1	2°29	1° 3	20°35	17°51	
T 30	8 36 43	10° 6'17	4°M30	9°32	5°23	15°41	24°35	2° 4	26°43	1°48	5° 1	2°31	1° 0	20°41	17°47	
F 31	8 40 40	11°M 7'10	16°M28	8°M17	6°M38	16°M12	24°M49	2°M 0	26°R43	1°M47	5°M 0	2°M33	0°M57	20°M48	17°M43	

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
W 1	23s 2	11n57	4s 3	23s19	2s 5	23s23	0n 4	10s 8	1n26	22s27	0s11	11n39	1n34	9s37	0n35	18n58	1s41	9n21	12s 2	23n25	23n26	23n38	14n29	7s35
T 2	22 57	16 0	3 14	22 59	2 3	23 26	0 2	10 19	1 26	22 25	0 11	11 40	1 35	9 37	0 35	18 58	1 41	9 21	12 2	23 25	23 26	23 38	14 29	7 35
F 3	22 51	19 20	2 17	22 38	2 0	23 28	0s 1	10 31	1 26	22 24	0 12	11 41	1 35	9 38	0 35	18 57	1 41	9 21	12 2	23 25	23 26	23 38	14 30	7 35
S 4	22 45	21 48	1 15	22 15	1 56	23 29	0 3	10 43	1 26	22 22	0 12	11 42	1 35	9 38	0 35	18 57	1 41	9 21	12 2	23 25	23 26	23 38	14 30	7 35
S 5	22 39	23 17	0 10	21 50	1 51	23 29	0 6	10 54	1 26	22 20	0 12	11 43	1 35	9 39	0 35	18 57	1 41	9 21	12 2	23 25	23 26	23 38	14 31	7 36
M 6	22 32	23 44	0n56	21 25	1 45	23 29	0 8	11 6	1 26	22 18	0 12	11 44	1 35	9 39	0 35	18 57	1 41	9 21	12 1	23 25	23 26	23 38	14 31	7 36
T 7	22 25	23 6	1 58	20 58	1 39	23 28	0 11	11 17	1 26	22 16	0 12	11 45	1 36	9 40	0 35	18 57	1 41	9 21	12 1	23 25	23 26	23 38	14 32	7 36
W 8	22 17	21 26	2 56	20 30	1 32	23 27	0 13	11 29	1 26	22 14	0 12	11 46	1 36	9 40	0 35	18 56	1 41	9 21	12 1	23 25	23 26	23 37	14 32	7 36
T 9	22 9	18 49	3 47	20 1	1 24	23 24	0 15	11 40	1 26	22 12	0 12	11 47	1 36	9 41	0 35	18 56	1 41	9 21	12 1	23 25	23 26	23 37	14 33	7 36
F 10	22 0	15 25	4 27	19 32	1 16	23 21	0 18	11 51	1 26	22 10	0 12	11 48	1 36	9 41	0 35	18 56	1 41	9 21	12 1	23 25	23 26	23 37	14 33	7 36
S 11	21 51	11 20	4 57	19 2	1 6	23 17	0 20	12 2	1 26	22 8	0 12	11 50	1 37	9 41	0 35	18 56	1 41	9 21	12 0	23 25	23 26	23 37	14 34	7 36
S 12	21 41	6 44	5 13	18 31	0 55	23 13	0 23	12 13	1 26	22 6	0 12	11 51	1 37	9 42	0 35	18 56	1 41	9 21	12 0	23 25	23 26	23 37	14 34	7 36
M13	21 31	1 46	5 15	18 1	0 44	23 8	0 25	12 24	1 26	22 4	0 12	11 52	1 37	9 42	0 35	18 56	1 41	9 21	12 0	23 25	23 26	23 37	14 35	7 36
T 14	21 21	3s23	5 1	17 31	0 31	23 2	0 27	12 35	1 25	22 2	0 13	11 54	1 37	9 42	0 35	18 56	1 40	9 22	12 0	23 25	23 26	23 37	14 35	7 36
W15	21 10	8 31	4 31	17 1	0 17	22 55	0 29	12 45	1 25	22 0	0 13	11 55	1 37	9 43	0 35	18 55	1 40	9 22	11 59	23 25	23 26	23 37	14 36	7 36
T 16	20 59	13 25	3 45	16 32	0 3	22 48	0 32	12 56	1 25	21 58	0 13	11 56	1 38	9 43	0 36	18 55	1 40	9 22	11 59	23 25	23 27	23 37	14 37	7 36
F 17	20 48	17 46	2 45	16 4	0n13	22 40	0 34	13 6	1 25	21 56	0 13	11 58	1 38	9 43	0 36	18 55	1 40	9 22	11 59	23 25	23 27	23 37	14 37	7 36
S 18	20 36	21 11	1 32	15 38	0 29	22 31	0 36	13 17	1 25	21 54	0 13	11 59	1 38	9 44	0 36	18 55	1 40	9 22	11 59	23 25	23 27	23 37	14 38	7 36
S 19	20 23	23 15	0 12	15 15	0 46	22 21	0 38	13 27	1 25	21 52	0 13	12 1	1 38	9 44	0 36	18 55	1 40	9 22	11 59	23 25	23 27	23 36	14 39	7 36
M20	20 11	23 41	1s11	14 53	1 4	22 11	0 40	13 37	1 25	21 50	0 13	12 2	1 38	9 44	0 36	18 55	1 40	9 22	11 58	23 25	23 27	23 36	14 39	7 36
T 21	19 57	22 21	2 29	14 35	1 22	22 0	0 43	13 47	1 25	21 48	0 13	12 4	1 39	9 44	0 36	18 55	1 40	9 23	11 58	23 25	23 27	23 36	14 40	7 36
W22	19 44	19 24	3 36	14 20	1 40	21 49	0 45	13 57	1 24	21 45	0 13	12 5	1 39	9 44	0 36	18 55	1 40	9 23	11 58	23 25	23 27	23 36	14 41	7 35
T 23	19 30	15 12	4 27	14 9	1 58	21 37	0 47	14 7	1 24	21 43	0 13	12 7	1 39	9 44	0 36	18 55	1 40	9 23	11 58	23 26	23 27	23 36	14 41	7 35
F 24	19 16	10 10	5 0	14 1	2 15	21 24	0 49	14 17	1 24	21 41	0 14	12 8	1 39	9 45	0 36	18 55	1 40	9 23	11 57	23 26	23 27	23 36	14 42	7 35
S 25	19 1	4 44	5 13	13 57	2 32	21 10	0 51	14 27	1 24	21 39	0 14	12 10	1 39	9 45	0 36	18 55	1 40	9 23	11 57	23 26	23 27	23 36	14 43	7 35
S 26	18 46	0n44	5 7	13 57	2 48	20 56	0 52	14 36	1 24	21 36	0 14	12 11	1 39	9 45	0 36	18 55	1 40	9 23	11 57	23 26	23 27	23 35	14 43	7 35
M27	18 31	6 0	4 45	14 0	3 2	20 42	0 54	14 46	1 23	21 34	0 14	12 13	1 40	9 45	0 36	18 54	1 40	9 24	11 56	23 26	23 27	23 35	14 44	7 35
T 28	18 16	10 51	4 9	14 7	3 14	20 26	0 56	14 55	1 23	21 32	0 14	12 15	1 40	9 45	0 36	18 54	1 40	9 24	11 56	23 26	23 27	23 35	14 45	7 34
W29	18 0	15 6	3 22																					

SWISS EPHEMERIS for the year 1890

MARCH 1890

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	10 35 0	10 ^h 33'33"	6 ^h 45'	14 ^h 44'	12 ^h 58'	29 ^h 54'	1 ^h 12'	29 ^h R43	26 ^h R20	1 ^h 11'51"	4 ^h 11'58"	0 ^h R31	29 ^h 11'25"	24 ^h 1	16 ^h R19	
S 2	10 38 56	11°23'42"	18°32'	15°17'	14°13'	0 ^h 19'	1°25'	29 ^h Q38	26 ^h 18'	1°52'	4°59'	0 ^h 29'	29°22'	24° 8'	16 ^h 18'	
M 3	10 42 53	12°23'49"	0 ^h Q20	16°31'	15°28'	0 ^h 44'	1°37'	29°33'	26°17'	1°52'	4°59'	0°25'	29°19'	24°14'	16°16'	
T 4	10 46 49	13°23'54"	12°14'	17°47'	16°43'	1° 9'	1°49'	29°29'	26°15'	1°53'	4°59'	0°19'	29°15'	24°21'	16°14'	
W 5	10 50 46	14°23'57"	24°16'	19° 5'	17°58'	1°34'	2° 2'	29°24'	26°13'	1°54'	5° 0'	0° 9'	29°12'	24°28'	16°13'	
T 6	10 54 42	15°23'58"	6 ^h 19'29"	20°24'	19°13'	1°58'	2°14'	29°19'	26°12'	1°55'	5° 0'	29 ^h 11'57"	29° 9'	24°34'	16°12'	
F 7	10 58 39	16°23'57"	18°54'	21°45'	20°27'	2°22'	2°26'	29°15'	26°10'	1°55'	5° 0'	29°44'	29° 6'	24°41'	16°10'	
S 8	11 2 36	17°23'54"	1 ^h 12'30"	23° 8'	21°42'	2°45'	2°38'	29°10'	26° 8'	1°56'	5° 1'	29°31'	29° 3'	24°48'	16° 9'	
S 9	11 6 32	18°23'49"	14°18'	24°32'	22°57'	3° 9'	2°49'	29° 6'	26° 6'	1°57'	5° 1'	29°18'	28°59'	24°54'	16° 8'	
M10	11 10 29	19°23'43"	27°18'	25°57'	24°12'	3°32'	3° 1'	29° 2'	26° 4'	1°58'	5° 2'	29° 8'	28°56'	25° 1'	16° 7'	
T 11	11 14 25	20°23'35"	10 ^h 11'29"	27°24'	25°27'	3°54'	3°13'	28°57'	26° 3'	1°59'	5° 2'	29° 0'	28°53'	25° 8'	16° 6'	
W12	11 18 22	21°23'25"	23°51'	28°52'	26°41'	4°17'	3°25'	28°53'	26° 1'	2° 0'	5° 2'	28°55'	28°50'	25°14'	16° 6'	
T 13	11 22 18	22°23'13"	7 ^h 12'15"	0 ^h 11'21"	27°56'	4°39'	3°36'	28°49'	25°59'	2° 1'	5° 3'	28°52'	28°47'	25°21'	16° 5'	
F 14	11 26 15	23°23'00"	21°11'	1°52'	29°11'	5° 1'	3°48'	28°44'	25°57'	2° 2'	5° 3'	28°52'	28°44'	25°28'	16° 4'	
S 15	11 30 11	24°22'45"	5 ^h 11'11"	3°23'	0 ^h 11'26"	5°22'	3°59'	28°40'	25°55'	2° 3'	5° 4'	28°52'	28°40'	25°34'	16° 4'	
S 16	11 34 8	25°22'28"	19°24'	4°57'	1°40'	5°43'	4°10'	28°36'	25°53'	2° 4'	5° 5'	28°51'	28°37'	25°41'	16° 3'	
M17	11 38 5	26°22'10"	3 ^h 11'49"	6°31'	2°55'	6° 4'	4°22'	28°32'	25°50'	2° 5'	5° 5'	28°48'	28°34'	25°48'	16° 3'	
T 18	11 42 1	27°21'50"	18°23'	8° 7'	4°10'	6°24'	4°33'	28°28'	25°48'	2° 6'	5° 6'	28°42'	28°31'	25°54'	16° 3'	
W19	11 45 58	28°21'28"	3 ^h 11'1	9°44'	5°24'	6°44'	4°44'	28°24'	25°46'	2° 8'	5° 6'	28°34'	28°28'	26° 1'	16° 3'	
T 20	11 49 54	29°21'04"	17°35'	11°22'	6°39'	7° 4'	4°55'	28°21'	25°44'	2° 9'	5° 7'	28°23'	28°25'	26° 8'	16°D 3'	
F 21	11 53 51	0 ^h 11'20'38"	2 ^h 11'0"	13° 2'	7°54'	7°23'	5° 6'	28°17'	25°42'	2°10'	5° 8'	28°11'	28°21'	26°14'	16° 3'	
S 22	11 57 47	1°20'10"	16° 7'	14°42'	9° 8'	7°42'	5°16'	28°13'	25°40'	2°11'	5° 8'	27°58'	28°18'	26°21'	16° 3'	
S 23	12 1 44	2°19'40"	29°52'	16°25'	10°23'	8° 0'	5°27'	28°10'	25°37'	2°13'	5° 9'	27°48'	28°15'	26°28'	16° 3'	
M24	12 5 40	3°19'08"	13 ^h 11'13"	18° 8'	11°37'	8°18'	5°37'	28° 6'	25°35'	2°14'	5°10'	27°39'	28°12'	26°34'	16° 4'	
T 25	12 9 37	4°18'34"	26° 9'	19°53'	12°52'	8°36'	5°48'	28° 3'	25°33'	2°15'	5°10'	27°33'	28° 9'	26°41'	16° 4'	
W26	12 13 34	5°17'57"	8 ^h 11'42"	21°39'	14° 6'	8°53'	5°58'	27°59'	25°30'	2°17'	5°11'	27°30'	28° 5'	26°48'	16° 5'	
T 27	12 17 30	6°17'18"	20°56'	23°26'	15°21'	9°10'	6° 8'	27°56'	25°28'	2°18'	5°12'	27°29'	28° 2'	26°54'	16° 6'	
F 28	12 21 27	7°16'37"	2 ^h 11'57"	25°15'	16°35'	9°26'	6°19'	27°53'	25°26'	2°19'	5°13'	27°29'	27°59'	27° 1'	16° 6'	
S 29	12 25 23	8°15'53"	14°48'	27° 5'	17°50'	9°42'	6°29'	27°50'	25°23'	2°21'	5°14'	27°29'	27°56'	27° 8'	16° 7'	
S 30	12 29 20	9°15'08"	26°36'	28°56'	19° 4'	9°57'	6°38'	27°47'	25°21'	2°22'	5°14'	27°28'	27°53'	27°14'	16° 8'	
MB1	12 33 16	10 ^h 11'14'19"	8 ^h 11'27"	0 ^h 11'49"	20 ^h 11'18"	10 ^h 11'12"	6 ^h 11'48"	27 ^h 11'44"	25 ^h 11'18"	2 ^h 11'24"	5 ^h 11'15"	27 ^h 11'24"	27 ^h 11'50"	27 ^h 11'50"	16 ^h 11'9"	

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	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat				
S 1	7s41	23n50	0n33	17s25	0s50	8s 1	1s26	18s59	1n11	20s11	0s18	13n11	1n43	9s36	0n37	18n57	1s38	9n32	11s47	23n27	23n27	23n26	15n 9	7s21
S 2	7 18	23 44	1 34	17 12	0 58	7 32	1 26	19 5	1 11	20 9	0 18	13 13	1 43	9 35	0 37	18 57	1 38	9 32	11 47	23 27	23 27	23 26	15 10	7 21
M 3	6 55	22 33	2 31	16 57	1 6	7 3	1 26	19 10	1 10	20 6	0 18	13 15	1 43	9 35	0 37	18 57	1 38	9 33	11 47	23 27	23 27	23 25	15 11	7 20
T 4	6 32	20 22	3 22	16 41	1 13	6 34	1 26	19 16	1 10	20 4	0 18	13 16	1 43	9 34	0 37	18 57	1 38	9 33	11 46	23 27	23 27	23 25	15 11	7 20
W 5	6 9	17 17	4 5	16 23	1 20	6 5	1 26	19 22	1 9	20 1	0 18	13 18	1 43	9 34	0 37	18 58	1 38	9 33	11 46	23 27	23 27	23 24	15 12	7 19
T 6	5 45	13 25	4 36	16 4	1 27	5 35	1 25	19 27	1 8	19 58	0 18	13 20	1 43	9 33	0 37	18 58	1 37	9 34	11 46	23 27	23 27	23 24	15 13	7 18
F 7	5 22	8 55	4 55	15 44	1 33	5 5	1 25	19 33	1 8	19 56	0 18	13 21	1 43	9 32	0 37	18 58	1 37	9 34	11 46	23 27	23 27	23 24	15 14	7 18
S 8	4 59	4 0	5 0	15 23	1 39	4 35	1 25	19 38	1 7	19 53	0 19	13 23	1 43	9 32	0 37	18 58	1 37	9 34	11 45	23 27	23 27	23 23	15 14	7 17
S 9	4 35	1s11	4 50	15 0	1 44	4 5	1 24	19 43	1 6	19 51	0 19	13 25	1 43	9 31	0 37	18 59	1 37	9 35	11 45	23 27	23 27	23 23	15 15	7 17
M10	4 12	6 23	4 26	14 36	1 50	3 35	1 23	19 48	1 5	19 48	0 19	13 26	1 43	9 30	0 37	18 59	1 37	9 35	11 45	23 27	23 27	23 22	15 16	7 16
T 11	3 49	11 24	3 46	14 10	1 54	3 5	1 23	19 53	1 5	19 45	0 19	13 28	1 43	9 30	0 37	18 59	1 37	9 35	11 44	23 27	23 27	23 22	15 17	7 15
W12	3 25	15 56	2 54	13 44	1 58	2 34	1 22	19 58	1 4	19 43	0 19	13 29	1 43	9 29	0 37	18 59	1 37	9 36	11 44	23 27	23 27	23 21	15 17	7 15
T 13	3 1	19 44	1 51	13 16	2 2	4 1	1 21	20 3	1 3	19 40	0 19	13 31	1 43	9 28	0 37	18 59	1 37	9 36	11 44	23 27	23 27	23 21	15 18	7 14
F 14	2 38	22 29	0 41	12 46	2 6	1 33	1 21	20 8	1 2	19 38	0 19	13 32	1 43	9 27	0 37	19 0	1 37	9 36	11 44	23 27	23 27	23 20	15 19	7 13
S 15	2 14	23 54	0s33	12 16	2 9	1 3	1 20	20 12	1 1	19 35	0 20	13 34	1 43	9 27	0 37	19 0	1 37	9 37	11 43	23 27	23 27	23 20	15 19	7 13
S 16	1 50	23 48	1 46	11 44	2 11	0 32	1 19	20 17	1 0	19 33	0 20	13 35	1 43	9 26	0 37	19 0	1 37	9 37	11 43	23 27	23 27	23 19	15 20	7 12
M17	1 27	22 7	2 53	11 11	2 13	0 2	1 18	20 21	0 59	19 30	0 20	13 36	1 43	9 25	0 37	19 1	1 37	9 38	11 43	23 27	23 27	23 19	15 21	7 12
T 18	1 3	18 58	3 50	10 37	2 15	0n29	1 17	20 26	0 59	19 28	0 20	13 38	1 43	9 24	0 37	19 1	1 37	9 38	11 43	23 27	23 27	23 19	15 21	7 11
W19	0 39	14 37	4 31	10 2	2 16	1 0	1 16	20 30	0 58	19 25	0 20	13 39	1 43	9 24	0 37	19 1	1 37	9 38	11 42	23 27	23 27	23 18	15 22	7 10
T 20	0 15	9 26	4 55	9 25	2 17	1 30	1 14	20 34	0 57	19 23	0 20	13 40	1 43	9 23	0 37	19 1	1 37	9 39	11 42	23 27	23 27	23 18	15 23	7 10
F 21	0n 8	3 47	5 0	8 47	2 18	2 1	1 13	20 39	0 56	19 20	0 20	13 42	1 43	9 22	0 37	19 2	1 37	9 39	11 42	23 26	23 27	23 17	15 23	7 9
S 22	0 32	1n57	4 46	8 8	2 17	2 31	1 12	20 43	0 54	19 18	0 21	13 43	1 43	9 21	0 37	19 2	1 37	9 39	11 41	23 26	23 27	23 17	15 24	7 8
S 23	0 56	7 27	4 15	7 28	2 17	3 2	1 10	20 47	0 53	19 15	0 21	13 44	1 43	9 20	0 37	19 2	1 37	9 40	11 41	23 26	23 27	23 16	15 24	7 8
M24	1 19	12 27	3 11	6 47	2 16	3 32	1 9	20 51	0 52	19 13	0 21	13 45	1 43	9 19	0 37	19 3	1 36	9 40	11 41	23 26	23 26	23 15	15 25	7 7
T 25	1 43	16 45	2 38	6 4	2 14	4 3	1 8	20 54	0 51	19 10	0 21	13 46	1 43	9 19	0 37	19 3	1 36	9 40	11 41	23 26	23 26	23 15	15 26	7 6
W26	2 6	20 9	1 38	5 20	2 12	4 33	1 6	20 58	0 50	19 8	0 21	13 48	1 43	9 18	0 37	19 3	1 36	9 41	11 40	23 26	23 26	23 14	15 26	7 6
T 27	2 30	22 34	0 35	4 36	2 10	5 3	1 5	21 2	0 49	19 6	0 21	13 49	1 43	9 17	0 37	19								

SWISS EPHEMERIS for the year 1890

APRIL 1890

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	12 37 13	11°13'29"	20°24'	2°44'	21°33'	10°26'	6°58'	27°R41	25°R16	2°II25	5°II16	27°R19	27°II46	27°28'	16°28'	16°28'
W 2	12 41 9	12°12'36"	2°11'32"	4°39'	22°47'	10°40'	7°7'	27°R38	25°13'	2°27	5°17	27°II0	27°43'	27°34'	16°12'	16°12'
T 3	12 45 6	13°11'41"	14°54'	6°36'	24°1'	10°53'	7°17'	27°35	25°11'	2°29	5°18	27°0	27°40'	27°41'	16°13'	16°13'
F 4	12 49 3	14°10'44"	27°32'	8°34'	25°15'	11°6'	7°26'	27°33	25°8'	2°30	5°19	26°48'	27°37'	27°48'	16°15'	16°15'
S 5	12 52 59	15°9'44"	10°25'	10°34'	26°30'	11°18'	7°35'	27°30	25°6'	2°32	5°20	26°35'	27°34'	27°54'	16°16'	16°16'
S 6	12 56 56	16°8'43"	23°34'	12°34'	27°44'	11°30'	7°44'	27°28	25°3'	2°33	5°21	26°23'	27°31'	28°1'	16°18'	16°18'
M 7	13 0 52	17°7'40"	6°11'57"	14°36'	28°58'	11°41'	7°53'	27°26	25°1'	2°35	5°22	26°14'	27°27'	28°8'	16°19'	16°19'
T 8	13 4 49	18°6'34"	20°30'	16°39'	0°12'	11°52'	8°2'	27°24	24°58'	2°37	5°22	26°6'	27°24'	28°14'	16°21'	16°21'
W 9	13 8 45	19°5'27"	4°11'14"	18°43'	1°26'	12°2'	8°11'	27°21	24°56'	2°39	5°23	26°2'	27°21'	28°21'	16°23'	16°23'
T 10	13 12 42	20°4'19"	18°5'	20°48'	2°40'	12°11'	8°19'	27°19	24°53'	2°40	5°24	26°0'	27°18'	28°28'	16°25'	16°25'
F 11	13 16 38	21°3'08"	2°3'	22°54'	3°55'	12°20'	8°28'	27°18	24°51'	2°42	5°25	26°D 0	27°15'	28°34'	16°27'	16°27'
S 12	13 20 35	22°1'56"	16°5'	25°0'	5°9'	12°28'	8°36'	27°16	24°48'	2°44	5°26	26°R 1	27°11'	28°41'	16°30'	16°30'
S 13	13 24 32	23°0'42"	0°22'	27°6'	6°23'	12°36'	8°44'	27°14	24°46'	2°46	5°28	26°1'	27°8'	28°48'	16°32'	16°32'
M14	13 28 28	23°59'26"	14°23'	29°13'	7°37'	12°42'	8°52'	27°12	24°43'	2°47	5°29	25°59'	27°5'	28°54'	16°34'	16°34'
T 15	13 32 25	24°58'09"	28°36'	1°18'19"	8°51'	12°49'	9°0'	27°11	24°40'	2°49	5°30	25°55'	27°2'	29°1'	16°37'	16°37'
W16	13 36 21	25°56'50"	12°48'	3°25'	10°5'	12°54'	9°8'	27°9	24°38'	2°51	5°31	25°48'	26°59'	29°8'	16°39'	16°39'
T 17	13 40 18	26°55'29"	26°55'	5°30'	11°19'	12°59'	9°16'	27°8	24°35'	2°53	5°32	25°40'	26°56'	29°14'	16°42'	16°42'
F 18	13 44 14	27°54'06"	10°45'33"	7°34'	12°32'	13°3'	9°23'	27°7	24°33'	2°55	5°33	25°30'	26°52'	29°21'	16°45'	16°45'
S 19	13 48 11	28°52'42"	24°38'	9°37'	13°46'	13°7'	9°31'	27°6	24°30'	2°57	5°34	25°21'	26°49'	29°28'	16°47'	16°47'
S 20	13 52 7	29°51'15"	8°6'	11°38'	15°0'	13°10'	9°38'	27°5	24°28'	2°59	5°35	25°12'	26°46'	29°34'	16°50'	16°50'
M21	13 56 4	0°34'47"	21°14'	13°36'	16°14'	13°12'	9°45'	27°4	24°25'	3°1	5°36	25°6'	26°43'	29°41'	16°53'	16°53'
T 22	14 0 0	1°48'17"	4°11'2	15°33'	17°28'	13°13'	9°52'	27°3	24°22'	3°3	5°37	25°1'	26°40'	29°48'	16°56'	16°56'
W23	14 3 57	2°46'45"	16°32'	17°27'	18°42'	13°R14	9°58'	27°3	24°20'	3°5	5°39	24°59'	26°36'	29°54'	16°59'	16°59'
T 24	14 7 54	3°45'10"	28°45'	19°17'	19°55'	13°14'	10°5'	27°2	24°17'	3°7	5°40	24°D59	26°33'	0°1'	17°3'	17°3'
F 25	14 11 50	4°43'34"	10°28'46"	21°5'	21°9'	13°13'	10°12'	27°2	24°15'	3°9	5°41	25°0'	26°30'	0°8'	17°6'	17°6'
S 26	14 15 47	5°41'56"	22°39'	22°49'	22°23'	13°11'	10°18'	27°1	24°12'	3°11	5°42	25°1'	26°27'	0°14'	17°9'	17°9'
S 27	14 19 43	6°40'15"	4°28'	24°30'	23°37'	13°9'	10°24'	27°1	24°10'	3°13	5°43	25°R 2	26°24'	0°21'	17°13'	17°13'
M28	14 23 40	7°38'33"	16°20'	26°6'	24°50'	13°6'	10°30'	27°1	24°7'	3°15	5°45	25°1'	26°21'	0°28'	17°16'	17°16'
T 29	14 27 36	8°36'48"	28°19'	27°39'	26°4'	13°2'	10°36'	27°D 1	24°5'	3°17	5°46	24°59'	26°17'	0°34'	17°20'	17°20'
W30	14 31 33	9°35'01"	10°11'31"	29°8'	27°17'	12°58'	10°44'	27°R 1	24°2'	3°19	5°47	24°II55	26°II14	0°41'	17°24'	17°24'

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl
T 1	4n27	18n31	4n 2	0s36	1s50	7n32	0s56	21s20	0n42	18s54	0s22	13n54	1n43	9s12	0n37	19n 5
W 2	4 50	14 50	4 34	0n15	1 44	8 2	0 54	21 23	0 41	18 52	0 22	13 55	1 43	9 12	0 37	19 6
T 3	5 13	10 29	4 55	1 7	1 38	8 31	0 52	21 26	0 39	18 49	0 22	13 55	1 43	9 11	0 37	19 6
F 4	5 36	5 35	5 1	2 0	1 32	9 0	0 50	21 30	0 38	18 47	0 23	13 56	1 43	9 10	0 37	19 6
S 5	5 59	0 22	4 53	2 53	1 25	9 29	0 48	21 33	0 36	18 45	0 23	13 57	1 43	9 9	0 37	19 7
S 6	6 21	5s 0	4 29	3 47	1 17	9 57	0 46	21 36	0 35	18 43	0 23	13 58	1 43	9 8	0 37	19 7
M 7	6 44	10 13	3 50	4 42	1 9	10 25	0 44	21 39	0 33	18 41	0 23	13 59	1 42	9 7	0 37	19 7
T 8	7 6	15 3	2 57	5 37	1 1	10 54	0 42	21 42	0 32	18 39	0 23	13 59	1 42	9 6	0 37	19 8
W 9	7 29	19 9	1 53	6 32	0 52	11 21	0 40	21 45	0 30	18 37	0 23	14 0	1 42	9 5	0 37	19 8
T 10	7 51	22 13	0 42	7 28	0 42	11 49	0 38	21 48	0 28	18 34	0 24	14 1	1 42	9 4	0 37	19 9
F 11	8 13	23 58	0s32	8 24	0 33	12 16	0 36	21 51	0 27	18 32	0 24	14 1	1 42	9 3	0 37	19 9
S 12	8 35	24 13	1 45	9 20	0 23	12 43	0 33	21 54	0 25	18 30	0 24	14 2	1 42	9 2	0 37	19 9
S 13	8 57	22 55	2 52	10 16	0 12	13 10	0 31	21 57	0 23	18 28	0 24	14 2	1 42	9 1	0 37	19 10
M14	9 19	20 10	3 48	11 11	0 2	13 36	0 29	21 59	0 21	18 27	0 24	14 3	1 42	9 0	0 37	19 10
T 15	9 40	16 12	4 31	12 5	0n 9	14 2	0 27	22 2	0 19	18 25	0 25	14 3	1 42	8 59	0 37	19 10
W16	10 2	11 19	4 57	12 59	0 20	14 28	0 24	22 5	0 17	18 23	0 25	14 3	1 42	8 59	0 37	19 11
T 17	10 23	5 53	5 4	13 51	0 31	14 53	0 22	22 7	0 15	18 21	0 25	14 4	1 42	8 58	0 37	19 11
F 18	10 44	0 12	4 54	14 43	0 42	15 18	0 19	22 10	0 13	18 19	0 25	14 4	1 42	8 57	0 37	19 12
S 19	11 5	5n25	4 26	15 32	0 53	15 43	0 17	22 12	0 11	18 17	0 25	14 4	1 42	8 56	0 37	19 12
S 20	11 26	10 41	3 44	16 20	1 4	16 7	0 14	22 15	0 9	18 16	0 25	14 5	1 41	8 55	0 37	19 12
M21	11 46	15 20	2 51	17 7	1 14	16 31	0 12	22 17	0 6	18 14	0 26	14 5	1 41	8 54	0 37	19 13
T 22	12 7	19 10	1 50	17 51	1 24	16 54	0 10	22 20	0 4	18 12	0 26	14 5	1 41	8 53	0 37	19 13
W23	12 27	22 1	0 45	18 33	1 34	17 17	0 7	22 22	0 2	18 11	0 26	14 5	1 41	8 52	0 37	19 14
T 24	12 47	23 47	0n20	19 13	1 43	17 40	0 5	22 25	0s 1	18 9	0 26	14 5	1 41	8 51	0 37	19 14
F 25	13 6	24 25	1 24	19 50	1 51	18 2	0 2	22 27	0 3	18 7	0 26	14 5	1 41	8 50	0 37	19 15
S 26	13 26	23 55	2 24	20 25	1 59	18 23	0n 1	22 29	0 5	18 6	0 27	14 5	1 41	8 49	0 37	19 15
S 27	13 45	22 20	3 17	20 57	2 7	18 44	0 3	22 31	0 8	18 4	0 27	14 5	1 41	8 48	0 37	19 15
M28	14 4	19 47	4 2	21 27	2 13	19 5	0 6	22 34	0 11	18 3	0 27	14 5	1 41	8 47	0 37	19 16
T 29	14 23	16 23	4 36	21 54	2 19	19 25	0 8	22 36	0 13	18 2	0 27	14 5	1 41	8 47	0 37	19 16
W30	14n41	12n15	4n59	22n19	2n24	19n44	0n11	22s38	0s16	18s 0	0s27	14n 5	1n40	8s46	0n37	19n17

Julian Day Number = 2411458.5, Delta T = -5.99 sec
 Ecliptic obliquity = 23°27'14", Nutation = -0°00'17"
 Ayanamsha: Fagan/Bradley = 23°12'28", Lahiri = 22°19'28"

SWISS EPHEMERIS for the year 1890

MAY 1890

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	14 35 29	10♂33'12	22♏57	0♏33	28♂31	12°R52	10♏47	27♏1	24°R 0	3♏21	5♏48	24°R49	26♏11	0♏48	17♏28	
F 2	14 39 26	11°31'22	5♏43	1°53	29°45	12♏46	10°52	27° 1	23♏58	3°23	5°50	24♏42	26° 8	0°54	17°31	
S 3	14 43 23	12°29'29	18°49	3°10	0♏58	12°40	10°57	27° 2	23°55	3°25	5°51	24°35	26° 5	1° 1	17°35	
S 4	14 47 19	13°27'35	2♏14	4°22	2°12	12°32	11° 2	27° 2	23°53	3°27	5°52	24°28	26° 2	1° 8	17°39	
M 5	14 51 16	14°25'39	15°57	5°29	3°25	12°24	11° 7	27° 3	23°50	3°30	5°53	24°23	25°58	1°14	17°44	
T 6	14 55 12	15°23'41	29°56	6°32	4°38	12°15	11°12	27° 4	23°48	3°32	5°55	24°19	25°55	1°21	17°48	
W 7	14 59 9	16°21'42	14♏5	7°30	5°52	12° 5	11°16	27° 5	23°46	3°34	5°56	24°17	25°52	1°28	17°52	
T 8	15 3 5	17°19'41	28°21	8°24	7° 5	11°54	11°21	27° 5	23°43	3°36	5°57	24°D16	25°49	1°34	17°56	
F 9	15 7 2	18°17'39	12♏40	9°13	8°18	11°43	11°25	27° 6	23°41	3°38	5°59	24°17	25°46	1°41	18° 1	
S 10	15 10 58	19°15'36	26°58	9°57	9°32	11°31	11°29	27° 8	23°39	3°40	6° 0	24°19	25°42	1°48	18° 5	
S 11	15 14 55	20°13'31	11♏13	10°36	10°45	11°18	11°33	27° 9	23°37	3°43	6° 1	24°20	25°39	1°54	18°10	
M12	15 18 52	21°11'25	25°23	11°11	11°58	11° 5	11°36	27°10	23°35	3°45	6° 3	24°R20	25°36	2° 1	18°14	
T 13	15 22 48	22° 9'18	9♏25	11°40	13°11	10°51	11°40	27°12	23°32	3°47	6° 4	24°19	25°33	2° 8	18°19	
W14	15 26 45	23° 7'09	23°18	12° 5	14°25	10°36	11°43	27°13	23°30	3°49	6° 5	24°16	25°30	2°14	18°24	
T 15	15 30 41	24° 5'00	7♏2	12°25	15°38	10°21	11°46	27°15	23°28	3°51	6° 7	24°13	25°27	2°21	18°28	
F 16	15 34 38	25° 2'49	20°33	12°39	16°51	10° 5	11°49	27°17	23°26	3°54	6° 8	24° 8	25°23	2°28	18°33	
S 17	15 38 34	26° 0'37	3♏52	12°49	18° 4	9°48	11°52	27°18	23°24	3°56	6° 9	24° 4	25°20	2°34	18°38	
S 18	15 42 31	26°58'24	16°56	12°54	19°17	9°31	11°54	27°20	23°22	3°58	6°11	24° 0	25°17	2°41	18°43	
M19	15 46 27	27°56'09	29°44	12°R54	20°30	9°14	11°57	27°23	23°20	4° 0	6°12	23°57	25°14	2°48	18°48	
T 20	15 50 24	28°53'53	12♏18	12°50	21°43	8°56	11°59	27°25	23°18	4° 3	6°13	23°55	25°11	2°54	18°53	
W21	15 54 21	29°51'36	24°38	12°41	22°56	8°37	12° 1	27°27	23°16	4° 5	6°15	23°D55	25° 8	3° 1	18°58	
T 22	15 58 17	0♏49'17	6♏46	12°27	24° 9	8°18	12° 2	27°29	23°14	4° 7	6°16	23°55	25° 4	3° 8	19° 4	
F 23	16 2 14	1°46'57	18°44	12°10	25°22	7°59	12° 4	27°32	23°13	4° 9	6°17	23°56	25° 1	3°14	19° 9	
S 24	16 6 10	2°44'35	0♏36	11°49	26°35	7°40	12° 5	27°34	23°11	4°12	6°19	23°58	24°58	3°21	19°14	
S 25	16 10 7	3°42'12	12°26	11°25	27°48	7°20	12° 7	27°37	23° 9	4°14	6°20	24° 0	24°55	3°28	19°20	
M26	16 14 3	4°39'48	24°18	10°58	29° 1	7° 0	12° 8	27°40	23° 7	4°16	6°21	24° 1	24°52	3°34	19°25	
T 27	16 18 0	5°37'22	6♏17	10°28	0♏13	6°39	12° 9	27°43	23° 6	4°18	6°23	24°R 1	24°48	3°41	19°31	
W28	16 21 56	6°34'55	18°28	9°57	1°26	6°19	12° 9	27°46	23° 4	4°21	6°24	24° 0	24°45	3°48	19°36	
T 29	16 25 53	7°32'26	0♏55	9°24	2°39	5°58	12°10	27°49	23° 2	4°23	6°26	23°59	24°42	3°54	19°42	
F 30	16 29 50	8°29'56	13°42	8°51	3°52	5°38	12°10	27°52	23° 1	4°25	6°27	23°58	24°39	4° 1	19°47	
S 31	16 33 46	9♏27'24	26♏52	8♏17	5♏4	5♏17	12°R10	27♏55	22♏59	4♏27	6♏28	23♏56	24♏36	4♏8	19♏53	

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂								
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl								
T 1	15n 0	7n31	5n 9	22n42	2n28	20n 4	0n13	22s40	0s19	17s59	0s28	14n 5	1n40	8s45	0n37	19n17	1s35	9n54	11s33	23n21	23n24	22n51	15n38	6s44
F 2	15 18	2 22	5 3	23 2	2 31	20 22	0 16	22 42	0 21	17 58	0 28	14 5	1 40	8 44	0 37	19 17	1 35	9 54	11 33	23 21	23 24	22 50	15 39	6 43
S 3	15 36	3s 1	4 42	23 19	2 34	20 40	0 19	22 44	0 24	17 56	0 28	14 5	1 40	8 43	0 37	19 18	1 35	9 55	11 33	23 21	23 24	22 49	15 39	6 42
S 4	15 53	8 25	4 5	23 34	2 35	20 57	0 21	22 45	0 27	17 55	0 28	14 4	1 40	8 42	0 37	19 18	1 35	9 55	11 33	23 20	23 24	22 49	15 39	6 42
M 5	16 11	13 33	3 13	23 47	2 36	21 14	0 24	22 47	0 30	17 54	0 28	14 4	1 40	8 41	0 37	19 19	1 35	9 55	11 33	23 20	23 24	22 48	15 39	6 41
T 6	16 28	18 3	2 8	23 58	2 35	21 30	0 26	22 49	0 33	17 53	0 29	14 4	1 40	8 41	0 37	19 19	1 35	9 56	11 33	23 20	23 23	22 47	15 39	6 41
W 7	16 44	21 35	0 55	24 6	2 34	21 46	0 29	22 51	0 36	17 52	0 29	14 3	1 40	8 40	0 37	19 20	1 35	9 56	11 33	23 20	23 23	22 46	15 39	6 40
T 8	17 1	23 49	0s22	24 12	2 31	22 1	0 31	22 52	0 39	17 51	0 29	14 3	1 40	8 39	0 37	19 20	1 35	9 56	11 32	23 20	23 23	22 45	15 39	6 40
F 9	17 17	24 29	1 39	24 16	2 27	22 16	0 34	22 54	0 42	17 50	0 29	14 2	1 39	8 38	0 37	19 20	1 35	9 57	11 32	23 20	23 23	22 45	15 39	6 39
S 10	17 33	23 32	2 49	24 18	2 23	22 29	0 36	22 55	0 45	17 49	0 29	14 2	1 39	8 37	0 37	19 21	1 35	9 57	11 32	23 20	23 23	22 44	15 38	6 39
S 11	17 49	21 5	3 48	24 19	2 17	22 43	0 39	22 57	0 48	17 48	0 30	14 1	1 39	8 36	0 37	19 21	1 35	9 57	11 32	23 20	23 23	22 43	15 38	6 38
M12	18 4	17 22	4 34	24 17	2 10	22 55	0 41	22 58	0 51	17 47	0 30	14 1	1 39	8 36	0 37	19 22	1 35	9 58	11 32	23 20	23 23	22 42	15 38	6 38
T 13	18 19	12 42	5 2	24 13	2 3	23 7	0 44	22 59	0 55	17 47	0 30	14 0	1 39	8 35	0 36	19 22	1 35	9 58	11 32	23 20	23 23	22 41	15 38	6 37
W14	18 34	7 26	5 12	24 8	1 54	23 18	0 46	23 0	0 58	17 46	0 30	14 0	1 39	8 34	0 36	19 23	1 35	9 58	11 32	23 20	23 23	22 41	15 38	6 37
T 15	18 48	1 52	5 5	24 1	1 44	23 29	0 49	23 1	1 1	17 45	0 30	13 59	1 39	8 33	0 36	19 23	1 35	9 58	11 32	23 20	23 23	22 40	15 38	6 36
F 16	19 2	3n42	4 40	23 52	1 33	23 39	0 51	23 2	1 4	17 45	0 31	13 58	1 39	8 33	0 36	19 23	1 35	9 59	11 32	23 19	23 22	22 39	15 38	6 36
S 17	19 16	9 2	4 1	23 41	1 21	23 48	0 53	23 3	1 8	17 44	0 31	13 57	1 39	8 32	0 36	19 24	1 35	9 59	11 32	23 19	23 22	22 38	15 38	6 35
S 18	19 30	13 53	3 9	23 29	1 8	23 57	0 56	23 4	1 11	17 44	0 31	13 57	1 39	8 31	0 36	19 24	1 35	9 59	11 31	23 19	23 22	22 37	15 37	6 35
M19	19 43	18 0	2 9	23 16	0 54	24 5	0 58	23 4	1 14	17 43	0 31	13 56	1 38	8 30	0 36	19 25	1 35	10 0	11 31	23 19	23 22	22 36	15 37	6 35
T 20	19 56	21 14	1 3	23 0	0 40	24 12	1 0	23 5	1 18	17 43	0 31	13 55	1 38	8 30	0 36	19 25	1 35	10 0	11 31	23 19	23 22	22 35	15 37	6 34
W21	20 8	23 25	0n 4	22 44	0 24	24 18	1 3	23 5	1 21	17 42	0 32	13 54	1 38	8 29	0 36	19 26	1 35	10 0	11 31	23 19	23 22	22 34	15 37	6 34
T 22	20 20	24 27	1 10	22 27	0 8	24 24	1 5	23 5	1 24	17 42	0 32	13 53	1 38	8 28	0 36	19 26	1 35	10 1	11 31	23 19	23 22	22 34	15 36	6 33
F 23	20 32	24 20	2 13	22 8	0s 8	24 29	1 7	23 6	1 28	17 42	0 32	13 52	1 38	8 28	0 36	19 26	1 35	10 1	11 31	23 19	23 22	22 33	15 36	6 33
S 24	20 43	23 6	3 9	21 48	0 25	24 34	1 9	23 6	1 31	17 42	0 32	13 51	1 38	8 27	0 36	19 27	1 35	10 1	11 31	23 19	23 21	22 32	15 36	6 32
S 25	20 54	20 52	3 57	21 28	0 42	24 37	1 11	23 6	1 34	17 42	0 33	13 50	1 38	8 27	0 36	19 27	1 35	10 1	11 31	23 19	23 21	22 31	15 35	6 32
M26	21 5	17 44	4 35	21 7	1 0	24 40	1 13	23 6	1 37	17 42	0 33	13 49	1 38	8 26	0 36	19 28	1 35	10 2	11 31	23 19	23 21	22 30	15 35	6 32
T 27	21 15	13 52	5 1	20 45	1 17	24 42	1 15	23 5	1 41	17 42	0 33	13 48	1 38	8 25	0 36	19 28	1 35	10 2	11 31	23 19	23 21	22 29	15 35	6 31
W28	21 25	9 23	5 14	20 24	1 35	24 44	1 17	23 5	1 44	17 42	0 33	13 47	1 38	8 25	0 36	19 28	1 35	10 2	11 31	23				

SWISS EPHEMERIS for the year 1890

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	16 37 43	10II24'52	10III25	7°R44	6♁17	4°R57	12°R10	27Ω58	22°R58	4II30	6II30	23°R54	24II33	4Ω14	19♁59
M 2	16 41 39	11°22'18	24°21	7II11	7°29	4♁36	12♁10	28° 2	22♁56	4°32	6°31	23II52	24°29	4°21	20° 5
T 3	16 45 36	12°19'43	8♁38	6°41	8°42	4°16	12° 9	28° 5	22°55	4°34	6°32	23°51	24°26	4°28	20°10
W 4	16 49 32	13°17'08	23°10	6°12	9°55	3°56	12° 8	28° 9	22°54	4°36	6°34	23°D51	24°23	4°34	20°16
T 5	16 53 29	14°14'31	7♁52	5°45	11° 7	3°36	12° 8	28°12	22°52	4°39	6°35	23°51	24°20	4°41	20°22
F 6	16 57 26	15°11'54	22°37	5°22	12°19	3°16	12° 7	28°16	22°51	4°41	6°36	23°52	24°17	4°48	20°28
S 7	17 1 22	16° 9'16	7♁18	5° 2	13°32	2°56	12° 5	28°20	22°50	4°43	6°38	23°53	24°14	4°55	20°34
S 8	17 5 19	17° 6'38	21°50	4°46	14°44	2°37	12° 4	28°24	22°49	4°45	6°39	23°53	24°10	5° 1	20°40
M 9	17 9 15	18° 3'59	6♁ 9	4°33	15°57	2°19	12° 2	28°28	22°48	4°47	6°40	23°54	24° 7	5° 8	20°46
T 10	17 13 12	19° 1'20	20°12	4°25	17° 9	2° 0	12° 0	28°32	22°47	4°50	6°42	23°R54	24° 4	5°15	20°53
W 11	17 17 8	19°58'40	3♁57	4°D21	18°21	1°42	11°58	28°36	22°46	4°52	6°43	23°54	24° 1	5°21	20°59
T 12	17 21 5	20°55'59	17°26	4°21	19°33	1°25	11°56	28°40	22°45	4°54	6°45	23°53	23°58	5°28	21° 5
F 13	17 25 1	21°53'18	0♁37	4°26	20°45	1° 8	11°54	28°45	22°44	4°56	6°46	23°53	23°54	5°35	21°11
S 14	17 28 58	22°50'37	13°34	4°36	21°58	0°52	11°51	28°49	22°43	4°58	6°47	23°53	23°51	5°41	21°18
S 15	17 32 55	23°47'56	26°16	4°50	23°10	0°36	11°49	28°54	22°42	5° 0	6°48	23°D53	23°48	5°48	21°24
M 16	17 36 51	24°45'14	8II45	5° 9	24°22	0°21	11°46	28°58	22°41	5° 3	6°50	23°53	23°45	5°55	21°30
T 17	17 40 48	25°42'31	21° 3	5°32	25°34	0° 6	11°42	29° 3	22°40	5° 5	6°51	23°R53	23°42	6° 1	21°37
W 18	17 44 44	26°39'49	3♁11	6° 0	26°46	29M52	11°39	29° 8	22°40	5° 7	6°52	23°53	23°39	6° 8	21°43
T 19	17 48 41	27°37'05	15°11	6°32	27°58	29°39	11°36	29°12	22°39	5° 9	6°54	23°53	23°35	6°15	21°50
F 20	17 52 37	28°34'21	27° 5	7° 8	29°10	29°27	11°32	29°17	22°39	5°11	6°55	23°52	23°32	6°21	21°56
S 21	17 56 34	29°31'37	8Ω55	7°49	0Ω22	29°16	11°28	29°22	22°38	5°13	6°56	23°52	23°29	6°28	22° 3
S 22	18 0 30	0♁28'52	20°44	8°35	1°33	29° 5	11°24	29°27	22°38	5°15	6°58	23°51	23°26	6°35	22° 9
M 23	18 4 27	1°26'06	2II37	9°24	2°45	28°55	11°20	29°32	22°37	5°17	6°59	23°50	23°23	6°41	22°16
T 24	18 8 24	2°23'20	14°35	10°18	3°57	28°45	11°16	29°38	22°37	5°19	7° 0	23°49	23°20	6°48	22°22
W 25	18 12 20	3°20'33	26°45	11°15	5° 9	28°37	11°11	29°43	22°36	5°21	7° 1	23°49	23°16	6°55	22°29
T 26	18 16 17	4°17'46	9♁ 9	12°17	6°20	28°30	11° 7	29°48	22°36	5°23	7° 3	23°D49	23°13	7° 1	22°36
F 27	18 20 13	5°14'58	21°53	13°23	7°32	28°23	11° 2	29°53	22°36	5°25	7° 4	23°49	23°10	7° 8	22°42
S 28	18 24 10	6°12'10	4II59	14°32	8°43	28°17	10°57	29°59	22°36	5°27	7° 5	23°50	23° 7	7°15	22°49
S 29	18 28 6	7° 9'21	18°31	15°46	9°55	28°12	10°52	0II 4	22°36	5°29	7° 6	23°51	23° 4	7°21	22°56
M 30	18 32 3	8♁ 6'32	2♁29	17II 3	11Ω 6	28II 8	10♁46	0II10	22♁36	5II31	7II 7	23II52	23II 0	7Ω28	23♁ 2

Day	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	22n 1	11s30	3n38	18n59	2s40	24n43	1n25	23s 3	1s57	17s42	0s34	13n42	1n37	8s23	0n36	19n30	1s35	10n 3	11s31	23n19	23n20	22n24	15n33	6s29
M 2	22 9	16 21	2 36	18 39	2 54	24 41	1 26	23 2	2 0	17 43	0 34	13 41	1 37	8 22	0 36	19 31	1 35	10 3	11 31	23 19	23 20	22 23	15 32	6 29
T 3	22 17	20 23	1 23	18 21	3 8	24 38	1 28	23 1	2 3	17 43	0 35	13 40	1 37	8 22	0 36	19 31	1 35	10 4	11 31	23 19	23 20	22 22	15 32	6 29
W 4	22 24	23 13	0 4	18 4	3 20	24 34	1 30	23 0	2 6	17 43	0 35	13 38	1 37	8 21	0 36	19 31	1 35	10 4	11 31	23 19	23 20	22 21	15 31	6 28
T 5	22 31	24 30	1s17	17 49	3 31	24 30	1 31	22 59	2 9	17 44	0 35	13 37	1 37	8 21	0 36	19 32	1 35	10 4	11 31	23 19	23 20	22 20	15 31	6 28
F 6	22 38	24 4	2 33	17 35	3 41	24 25	1 33	22 58	2 12	17 44	0 35	13 36	1 37	8 20	0 36	19 32	1 35	10 4	11 31	23 19	23 20	22 19	15 30	6 28
S 7	22 44	21 58	3 38	17 23	3 50	24 19	1 34	22 57	2 14	17 45	0 35	13 34	1 37	8 20	0 36	19 33	1 35	10 4	11 31	23 19	23 20	22 18	15 30	6 27
S 8	22 50	18 29	4 29	17 13	3 57	24 13	1 35	22 56	2 17	17 45	0 36	13 33	1 36	8 19	0 36	19 33	1 35	10 5	11 31	23 19	23 20	22 17	15 29	6 27
M 9	22 55	13 56	5 2	17 5	4 3	24 6	1 37	22 55	2 20	17 46	0 36	13 31	1 36	8 19	0 36	19 33	1 35	10 5	11 31	23 19	23 19	22 16	15 28	6 27
T 10	23 0	8 44	5 17	16 58	4 8	23 58	1 38	22 54	2 23	17 47	0 36	13 30	1 36	8 19	0 36	19 34	1 35	10 5	11 31	23 19	23 19	22 15	15 28	6 26
W 11	23 4	3 12	5 12	16 54	4 12	23 50	1 39	22 53	2 25	17 48	0 36	13 28	1 36	8 18	0 36	19 34	1 35	10 5	11 31	23 19	23 19	22 14	15 27	6 26
T 12	23 9	2n22	4 51	16 52	4 14	23 41	1 40	22 52	2 28	17 48	0 37	13 27	1 36	8 18	0 36	19 34	1 35	10 5	11 31	23 19	23 19	22 13	15 27	6 26
F 13	23 12	7 43	4 14	16 52	4 15	23 31	1 41	22 51	2 30	17 49	0 37	13 25	1 36	8 18	0 36	19 35	1 35	10 6	11 31	23 19	23 19	22 12	15 26	6 26
S 14	23 16	12 39	3 26	16 54	4 15	23 21	1 42	22 50	2 32	17 50	0 37	13 23	1 36	8 17	0 36	19 35	1 35	10 6	11 31	23 19	23 19	22 11	15 25	6 25
S 15	23 18	16 56	2 27	16 57	4 13	23 10	1 43	22 48	2 35	17 51	0 37	13 22	1 36	8 17	0 35	19 36	1 35	10 6	11 31	23 19	23 19	22 10	15 24	6 25
M 16	23 21	20 24	1 23	17 3	4 11	22 58	1 44	22 47	2 37	17 52	0 38	13 20	1 36	8 17	0 35	19 36	1 35	10 6	11 31	23 19	23 18	22 9	15 24	6 25
T 17	23 23	22 53	0 16	17 10	4 8	22 45	1 45	22 46	2 39	17 53	0 38	13 18	1 36	8 17	0 35	19 36	1 35	10 6	11 31	23 19	23 18	22 8	15 23	6 25
W 18	23 25	24 16	0n51	17 19	4 4	22 32	1 45	22 45	2 41	17 55	0 38	13 17	1 36	8 16	0 35	19 37	1 35	10 6	11 31	23 19	23 18	22 7	15 22	6 24
T 19	23 26	24 30	1 55	17 30	3 58	22 19	1 46	22 45	2 43	17 56	0 38	13 15	1 36	8 16	0 35	19 37	1 35	10 7	11 31	23 19	23 18	22 6	15 22	6 24
F 20	23 27	23 36	2 54	17 42	3 53	22 5	1 47	22 44	2 45	17 57	0 38	13 13	1 35	8 16	0 35	19 37	1 35	10 7	11 31	23 19	23 18	22 5	15 21	6 24
S 21	23 27	21 39	3 45	17 55	3 46	21 50	1 47	22 43	2 47	17 58	0 39	13 11	1 35	8 16	0 35	19 38	1 35	10 7	11 31	23 19	23 18	22 4	15 20	6 24
S 22	23 27	18 47	4 26	18 9	3 38	21 34	1 47	22 42	2 49	18 0	0 39	13 9	1 35	8 16	0 35	19 38	1 35	10 7	11 31	23 19	23 17	22 3	15 19	6 24
M 23	23 27	15 8	4 55	18 25	3 30	21 18	1 48	22 42	2 50	18 1	0 39	13 8	1 35	8 16	0 35	19 38	1 35	10 7	11 31	23 19	23 17	22 2	15 18	6 23
T 24	23 26	10 53	5 13	18 41	3 21	21 2	1 48	22 41	2 52	18 2	0 39	13 6	1 35	8 16	0 35	19 39	1 35	10 7	11 31	23 19	23 17	22 1	15 17	6 23
W 25	23 25	6 8	5 16	18 59	3 12	20 44	1 48	22 41	2 53	18 4	0 40	13 4	1 35	8 15	0 35	19 39	1 35	10 7	11 31	23 19	23 17	22 0	15 17	6 23
T 26	23 23	1 3	5 6	19 17	3 2	20 27	1 48	22 41	2 55	18 5	0 40	13 2	1 35	8 15	0 35	19 39	1 35	10 8	11 31	23 19	23 17	21 59	15 16	6 23
F 27	23 21	4s12	4 40	19 35	2 51	20 8	1 48	22 40	2 56	18 7	0 40	13 0	1 35	8 15	0 35	19 40	1 35	10 8	11 32	23 19	23 17	21 57	15 15	6 23
S 28	23 19	9 26	3 59	19 54	2 40	19 50	1 48	22 40	2 58	18 8	0 40	12 58	1 35	8 15	0 35	19 40	1 35	10 8	11 32	23 19	23 16	21 56	15 14	6 23
S 29	23 16	14 24	3 3	20 13	2 29	19 30	1 48	22 41	2 59	18 10	0 40	12 56	1 35	8 15	0									

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	18 35 59	9°53'34"	16°57'53"	18°11'24"	12°02'18"	28°R 4	10°R41	0°M 16	22°D36	5°II33	7°II 9	23°R53	22°II57	7°L35	23°25 9
W 2	18 39 56	10° 0'54"	1°33'7"	19°49	13°29	28°M 2	10°R36	0°21	22°E36	5°35	7°10	23°II53	22°54	7°42	23°16
T 3	18 43 53	10°58'04"	16°37	21°17	14°40	28° 0	10°30	0°27	22°36	5°37	7°11	23°52	22°51	7°48	23°23
F 4	18 47 49	11°55'15"	1°33'43"	22°49	15°51	27°59	10°24	0°33	22°36	5°39	7°12	23°50	22°48	7°55	23°30
S 5	18 51 46	12°52'26"	16°47	24°25	17° 2	27°D59	10°18	0°39	22°36	5°41	7°13	23°48	22°45	8° 2	23°36
S 6	18 55 42	13°49'37"	1°33'39"	26° 4	18°14	28° 0	10°12	0°45	22°36	5°43	7°14	23°45	22°41	8° 8	23°43
M 7	18 59 39	14°46'48"	16°13	27°47	19°25	28° 1	10° 6	0°51	22°37	5°45	7°16	23°43	22°38	8°15	23°50
T 8	19 3 35	15°44'00"	0°V 25	29°32	20°36	28° 4	9°59	0°57	22°37	5°46	7°17	23°42	22°35	8°22	23°57
W 9	19 7 32	16°41'12"	14°13	1°33'21"	21°46	28° 7	9°53	1° 3	22°37	5°48	7°18	23°D41	22°32	8°28	24° 4
T 10	19 11 28	17°38'24"	27°36	3°13	22°57	28°11	9°46	1° 9	22°38	5°50	7°19	23°41	22°29	8°35	24°11
F 11	19 15 25	18°35'37"	10°33'8"	5° 8	24° 8	28°16	9°40	1°15	22°38	5°52	7°20	23°42	22°26	8°42	24°18
S 12	19 19 22	19°32'51"	23°20	7° 5	25°19	28°22	9°33	1°21	22°39	5°54	7°21	23°44	22°22	8°48	24°25
S 13	19 23 18	20°30'05"	5°II 47	9° 5	26°30	28°28	9°26	1°28	22°40	5°55	7°22	23°45	22°19	8°55	24°32
M14	19 27 15	21°27'20"	18° 1	11° 7	27°40	28°35	9°19	1°34	22°40	5°57	7°23	23°R46	22°16	9° 2	24°39
T 15	19 31 11	22°24'35"	0°E 6	13°10	28°51	28°43	9°12	1°41	22°41	5°59	7°24	23°46	22°13	9° 8	24°45
W16	19 35 8	23°21'51"	12° 4	15°15	0°M 1	28°52	9° 5	1°47	22°42	6° 0	7°25	23°45	22°10	9°15	24°52
T 17	19 39 4	24°19'07"	23°57	17°21	1°12	29° 1	8°58	1°54	22°43	6° 2	7°26	23°42	22° 6	9°22	24°59
F 18	19 43 1	25°16'23"	5°L 47	19°29	2°22	29°11	8°50	2° 0	22°44	6° 4	7°27	23°38	22° 3	9°29	25° 6
S 19	19 46 57	26°13'41"	17°37	21°36	3°32	29°22	8°43	2° 7	22°44	6° 5	7°28	23°32	22° 0	9°35	25°13
S 20	19 50 54	27°10'58"	29°27	23°44	4°43	29°34	8°35	2°13	22°45	6° 7	7°29	23°26	21°57	9°42	25°20
M21	19 54 51	28° 8'16"	11°M 22	25°52	5°53	29°46	8°28	2°20	22°46	6° 8	7°30	23°21	21°54	9°49	25°27
T 22	19 58 47	29° 5'34"	23°23	28° 0	7° 3	29°59	8°20	2°27	22°48	6°10	7°31	23°15	21°51	9°55	25°34
W23	20 2 44	0°L 2'52"	5°L 33	0°L 7	8°13	0°M 19	8°13	2°34	22°49	6°11	7°32	23°11	21°47	10° 2	25°41
T 24	20 6 40	1° 0'11"	17°56	2°13	9°23	0°27	8° 5	2°40	22°50	6°13	7°33	23° 9	21°44	10° 9	25°48
F 25	20 10 37	1°57'31"	0°M 36	4°19	10°33	0°42	7°57	2°47	22°51	6°14	7°34	23°D 8	21°41	10°15	25°55
S 26	20 14 33	2°54'50"	13°37	6°23	11°42	0°58	7°50	2°54	22°52	6°16	7°34	23° 8	21°38	10°22	26° 2
S 27	20 18 30	3°52'11"	27° 1	8°26	12°52	1°14	7°42	3° 1	22°54	6°17	7°35	23°10	21°35	10°29	26° 9
M28	20 22 26	4°49'31"	10°M 52	10°28	14° 2	1°31	7°34	3° 8	22°55	6°18	7°36	23°11	21°32	10°35	26°16
T 29	20 26 23	5°46'53"	25°11	12°29	15°11	1°49	7°26	3°15	22°57	6°20	7°37	23°R11	21°28	10°42	26°23
W30	20 30 20	6°44'15"	9°S 54	14°28	16°20	2° 7	7°19	3°22	22°58	6°21	7°38	23°10	21°25	10°49	26°30
T 31	20 34 16	7°41'38"	24°S 57	16°L 25	17°M 30	2°M 26	7°11	3°M 29	23° 0	6°II 22	7°II 38	23°II 7	21°II 22	10°L 56	26°S 37

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	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
T 1	23n 9	22s10	0n39	20n52	2s 5	18n50	1n47	22s41	3s 1	18s13	0s41	12n52	1n35	8s15	0n35	19n41	1s35	10n 8	11s32	23n19	23n16	21n53	15n11	6s22
W 2	23 5 24	9 0s43	21 11	1 53	18 29	1 47	22 42	3 2	18 15	0 41	12 50	1 35	8 15	0 35	19 41	1 35	10 8	11 32	23 19	23 16	21 52	15 10	6 22	
T 3	23 0 24	27 2	2 21	29 1 41	18 8	1 46	22 42	3 3	18 17	0 41	12 48	1 35	8 15	0 35	19 42	1 35	10 8	11 32	23 19	23 16	21 51	15 9	6 22	
F 4	22 55 22	56 3	14 21	47 1 28	17 46	1 46	22 43	3 4	18 18	0 41	12 46	1 35	8 16	0 35	19 42	1 35	10 8	11 32	23 19	23 15	21 50	15 8	6 22	
S 5	22 50 19	49 4	12 22	5 1 16	17 24	1 45	22 44	3 5	18 20	0 42	12 43	1 35	8 16	0 35	19 42	1 35	10 8	11 32	23 19	23 15	21 48	15 7	6 22	
S 6	22 44 15	26 4	5 22	22 21 1	3 17	2 1 44	22 45	3 6	18 22	0 42	12 41	1 34	8 16	0 35	19 43	1 35	10 8	11 32	23 18	23 15	21 47	15 6	6 22	
M 7	22 38 10	14 5	12 22	36 0 50	16 38	1 43	22 46	3 7	18 24	0 42	12 39	1 34	8 16	0 35	19 43	1 35	10 9	11 33	23 18	23 15	21 46	15 5	6 22	
T 8	22 32 4	37 5	13 22	49 0 38	16 15	1 42	22 47	3 8	18 26	0 42	12 37	1 34	8 16	0 35	19 43	1 35	10 9	11 33	23 18	23 15	21 45	15 4	6 21	
W 9	22 25 1n	4	5 23	1 0 25	15 51	1 41	22 49	3 8	18 28	0 42	12 35	1 34	8 16	0 35	19 44	1 35	10 9	11 33	23 18	23 15	21 44	15 3	6 21	
T 10	22 17 6	33 4	22 23	12 0 13	15 27	1 40	22 50	3 9	18 30	0 43	12 32	1 34	8 17	0 35	19 44	1 35	10 9	11 33	23 18	23 14	21 42	15 2	6 21	
F 11	22 10 11	36 3	3 35	23 20 0	1 15	2 1 39	22 52	3 9	18 32	0 43	12 30	1 34	8 17	0 34	19 44	1 35	10 9	11 33	23 18	23 14	21 41	15 1	6 21	
S 12	22 2 16	3 2	4 0	23 26 0n10	14 37	1 37	22 54	3 10	18 34	0 43	12 28	1 34	8 17	0 34	19 44	1 35	10 9	11 33	23 18	23 14	21 40	15 0	6 21	
S 13	21 53 19	41 1	3 7	23 30 0 21	14 12	1 36	22 55	3 11	18 36	0 43	12 26	1 34	8 17	0 34	19 45	1 35	10 9	11 33	23 18	23 14	21 39	14 58	6 21	
M14	21 45 22	23 0	32 23	31 0 32	13 46	1 35	22 58	3 11	18 38	0 43	12 23	1 34	8 18	0 34	19 45	1 35	10 9	11 33	23 18	23 14	21 38	14 57	6 21	
T 15	21 35 24	2 0n35	23 30 0 42	13 20	1 33	23 0	3 11	18 40	0 44	12 21	1 34	8 18	0 34	19 45	1 35	10 9	11 33	23 18	23 13	21 36	14 56	6 21		
W16	21 26 24	33 1	39 23	26 0 51	12 54	1 31	23 2	3 12	18 42	0 44	12 19	1 34	8 18	0 34	19 45	1 35	10 9	11 34	23 18	23 13	21 35	14 55	6 21	
T 17	21 16 23	55 2	38 23	19 1 0	12 27	1 29	23 4	3 12	18 44	0 44	12 16	1 34	8 19	0 34	19 46	1 35	10 9	11 34	23 18	23 13	21 34	14 54	6 21	
F 18	21 6 22	13 3	30 23	10 1 8	12 0	1 28	23 7	3 12	18 46	0 44	12 14	1 34	8 19	0 34	19 46	1 35	10 9	11 34	23 18	23 13	21 33	14 52	6 21	
S 19	20 55 19	34 4	12 22	58 1 16	11 33	1 26	23 10	3 12	18 48	0 44	12 11	1 34	8 19	0 34	19 46	1 36	10 9	11 34	23 18	23 13	21 31	14 51	6 21	
S 20	20 44 16	6 4	4 44	22 43 1 22	11 5	1 24	23 12	3 13	18 50	0 44	12 9	1 34	8 20	0 34	19 46	1 36	10 9	11 34	23 17	23 13	21 30	14 50	6 21	
M21	20 33 11	59 5	4 22	25 1 28	10 37	1 21	23 15	3 13	18 52	0 45	12 7	1 34	8 20	0 34	19 47	1 36	10 9	11 34	23 17	23 12	21 29	14 49	6 21	
T 22	20 21 7	23 5	11 22	6 1 33	10 9	1 19	23 18	3 13	18 55	0 45	12 4	1 34	8 21	0 34	19 47	1 36	10 9	11 35	23 17	23 12	21 28	14 47	6 21	
W23	20 9 2	26 5	4 21	43 1 37	9 41	1 17	23 21	3 13	18 57	0 45	12 2	1 34	8 21	0 34	19 47	1 36	10 9	11 35	23 17	23 12	21 26	14 46	6 21	
T 24	19 57 2	841 4	42 21	19 1 41	9 13	1 15	23 24	3 13	18 59	0 45	11 59	1 34	8 21	0 34	19 47	1 36	10 9	11 35	23 17	23 12	21 25	14 45	6 21	
F 25	19 44 7	50 4	7 20	52 1 43	8 44	1 12	23 27	3 13	19 1	0 45	11 57	1 34	8 22	0 34	19 47	1 36	10 9	11 35	23 17	23 12	21 24	14 44	6 21	
S 26	19 31 12	47 3	18 20	23 1 45	8 15	1 10	23 31	3 13	19 3	0 45	11 54	1 34	8 22	0 34	19 48	1 36	10 9	11 35	23 17	23 11	21 23	14 42	6 21	
S 27	19 18 17	17 2	17 19	53 1 46	7 46	1 7	23 34	3 13	19 5	0 45	11 52	1 34	8 23	0 34	19 48	1 36	10 9	11 35	23 17	23 11	21 21	14 41	6 22	
M28	19 4 21	0 1	6 19	20 1 47	7 16	1 4	23 38	3 13	19 7	0 46	11 49	1 34	8 24	0 34	19 48	1 36	10 9	11 35	23 17	23 11	21 20	14 40	6 22	
T 29	18 50 23	33 0s11	18 47 1 47	6 47	1																			

SWISS EPHEMERIS for the year 1890

AUGUST 1890

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
F 1	20 38 13	8♁39'01	10♁12	18♁21	18♁39	2♁45	7°R 3	3♁36	23♁ 1	6♁24	7♁39	23°R 2	21♁19	11♁ 2	26♁43
S 2	20 42 9	9°36'25	25°28	20°16	19°48	3° 5	6♁55	3°43	23° 3	6°25	7°40	22♁56	21°16	11° 9	26°50
S 3	20 46 6	10°33'51	10♁36	22° 8	20°57	3°25	6°47	3°51	23° 5	6°26	7°41	22°49	21°12	11°16	26°57
M 4	20 50 2	11°31'17	25°25	24° 0	22° 6	3°46	6°40	3°58	23° 6	6°27	7°41	22°42	21° 9	11°22	27° 4
T 5	20 53 59	12°28'45	9°48	25°49	23°15	4° 8	6°32	4° 5	23° 8	6°28	7°42	22°37	21° 6	11°29	27°11
W 6	20 57 55	13°26'14	23°43	27°37	24°24	4°30	6°24	4°12	23°10	6°30	7°43	22°33	21° 3	11°36	27°18
T 7	21 1 52	14°23'44	7♁10	29°24	25°32	4°52	6°17	4°20	23°12	6°31	7°43	22°31	21° 0	11°42	27°25
F 8	21 5 49	15°21'15	20°10	1♁ 9	26°41	5°15	6° 9	4°27	23°14	6°32	7°44	22°D31	20°57	11°49	27°31
S 9	21 9 45	16°18'48	2♁47	2°52	27°49	5°38	6° 1	4°34	23°16	6°33	7°45	22°32	20°53	11°56	27°38
S 10	21 13 42	17°16'23	15° 7	4°34	28°58	6° 2	5°54	4°42	23°18	6°34	7°45	22°33	20°50	12° 2	27°45
M 11	21 17 38	18°13'59	27°13	6°15	0♁ 6	6°27	5°46	4°49	23°20	6°35	7°46	22°R33	20°47	12° 9	27°52
T 12	21 21 35	19°11'36	9♁10	7°54	1°14	6°52	5°39	4°56	23°22	6°36	7°46	22°32	20°44	12°16	27°58
W 13	21 25 31	20° 9'15	21° 1	9°31	2°22	7°17	5°32	5° 4	23°24	6°37	7°47	22°28	20°41	12°22	28° 5
T 14	21 29 28	21° 6'55	2♁50	11° 7	3°30	7°43	5°24	5°11	23°26	6°37	7°47	22°22	20°38	12°29	28°12
F 15	21 33 25	22° 4'36	14°40	12°41	4°38	8° 9	5°17	5°19	23°28	6°38	7°48	22°13	20°34	12°36	28°18
S 16	21 37 21	23° 2'19	26°32	14°14	5°45	8°35	5°10	5°26	23°31	6°39	7°48	22° 2	20°31	12°43	28°25
S 17	21 41 18	24° 0'03	8♁27	15°45	6°53	9° 3	5° 3	5°34	23°33	6°40	7°49	21°51	20°28	12°49	28°31
M 18	21 45 14	24°57'48	20°28	17°15	8° 0	9°30	4°56	5°41	23°35	6°41	7°49	21°39	20°25	12°56	28°38
T 19	21 49 11	25°55'34	2♁36	18°44	9° 7	9°58	4°49	5°49	23°38	6°41	7°50	21°28	20°22	13° 3	28°45
W 20	21 53 7	26°53'22	14°52	20°10	10°14	10°26	4°43	5°56	23°40	6°42	7°50	21°20	20°18	13° 9	28°51
T 21	21 57 4	27°51'11	27°19	21°36	11°21	10°55	4°36	6° 4	23°43	6°43	7°50	21°13	20°15	13°16	28°58
F 22	22 1 0	28°49'01	10♁ 0	22°59	12°28	11°24	4°29	6°11	23°45	6°43	7°51	21° 9	20°12	13°23	29° 4
S 23	22 4 57	29°46'52	22°58	24°21	13°35	11°53	4°23	6°19	23°48	6°44	7°51	21° 8	20° 9	13°29	29°10
S 24	22 8 53	0♁44'45	6♁17	25°42	14°42	12°23	4°17	6°26	23°50	6°45	7°51	21°D 8	20° 6	13°36	29°17
M 25	22 12 50	1°42'39	19°58	27° 1	15°48	12°53	4°11	6°34	23°53	6°45	7°52	21°R 8	20° 3	13°43	29°23
T 26	22 16 47	2°40'34	4♁ 4	28°18	16°54	13°24	4° 5	6°41	23°56	6°46	7°52	21° 8	19°59	13°50	29°29
W 27	22 20 43	3°38'30	18°35	29°33	18° 0	13°54	3°59	6°49	23°58	6°46	7°52	21° 5	19°56	13°56	29°36
T 28	22 24 40	4°36'28	3♁28	0♁47	19° 6	14°25	3°53	6°56	24° 1	6°47	7°52	21° 0	19°53	14° 3	29°42
F 29	22 28 36	5°34'27	18°35	1°58	20°12	14°57	3°48	7° 4	24° 4	6°47	7°53	20°53	19°50	14°10	29°48
S 30	22 32 33	6°32'27	3♁49	3° 8	21°17	15°29	3°42	7°12	24° 7	6°47	7°53	20°43	19°47	14°16	29°54
S 31	22 36 29	7♁30'29	18♁58	4♁15	22♁23	16♁ 1	3♁37	7♁19	24♁ 9	6♁48	7♁53	20♁33	19♁43	14♁23	0♁ 0

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	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 7	21s20	3s46	16n58	1n43	5n18	0n52	23s52	3s13	19s16	0s46	11n39	1n34	8s26	0n34	19n49	1s36	10n 9	11s36	23n16	23n10	21n15	14n34	6s22
S 2	17 51	17 19	4 33	16 19	1 40	4 48	0 49	23 56	3 12	19 18	0 46	11 36	1 34	8 27	0 34	19 49	1 36	10 8	11 36	23 16	23 10	21 13	14 33	6 22
S 3	17 36	12 14	5 1	15 40	1 37	4 48	0 46	24 0	3 12	19 20	0 46	11 34	1 34	8 27	0 34	19 49	1 36	10 8	11 37	23 16	23 10	21 12	14 31	6 22
M 4	17 20	6 31	5 7	15 0	1 33	3 47	0 43	24 3	3 12	19 22	0 47	11 31	1 34	8 28	0 34	19 49	1 36	10 8	11 37	23 15	23 10	21 11	14 30	6 23
T 5	17 4	0 37	4 54	14 19	1 29	3 17	0 39	24 7	3 12	19 24	0 47	11 28	1 34	8 29	0 34	19 49	1 36	10 8	11 37	23 15	23 9	21 9	14 29	6 23
W 6	16 48	5n 8	4 24	13 38	1 25	2 47	0 36	24 11	3 11	19 26	0 47	11 26	1 34	8 29	0 34	19 50	1 36	10 8	11 37	23 15	23 9	21 8	14 27	6 23
T 7	16 31	10 27	3 39	12 56	1 20	2 16	0 32	24 15	3 11	19 28	0 47	11 23	1 34	8 30	0 33	19 50	1 36	10 8	11 37	23 15	23 9	21 7	14 26	6 23
F 8	16 15	15 9	2 45	12 14	1 14	1 46	0 29	24 19	3 11	19 30	0 47	11 20	1 34	8 31	0 33	19 50	1 36	10 8	11 37	23 15	23 9	21 5	14 24	6 23
S 9	15 57	19 2	1 44	11 31	1 9	1 15	0 25	24 23	3 10	19 32	0 47	11 18	1 34	8 32	0 33	19 50	1 36	10 8	11 38	23 15	23 8	21 4	14 23	6 23
S 10	15 40	21 58	0 40	10 49	1 3	0 44	0 21	24 27	3 10	19 34	0 47	11 15	1 34	8 32	0 33	19 50	1 36	10 8	11 38	23 15	23 8	21 3	14 21	6 24
M 11	15 22	23 50	0n25	10 6	0 56	0 14	0 17	24 31	3 10	19 36	0 47	11 12	1 34	8 33	0 33	19 50	1 36	10 8	11 38	23 15	23 8	21 1	14 20	6 24
T 12	15 5 24	36 1	2 28	9 23	0 50	0s17	0 13	24 34	3 9	19 38	0 47	11 10	1 34	8 34	0 33	19 50	1 37	10 7	11 38	23 15	23 8	21 0	14 18	6 24
W 13	14 46	24 13	2 26	8 40	0 43	0 48	0 10	24 38	3 9	19 40	0 47	11 7	1 34	8 35	0 33	19 50	1 37	10 7	11 38	23 14	23 8	20 59	14 17	6 24
T 14	14 28	22 45	3 18	7 57	0 35	1 18	0 5	24 42	3 8	19 42	0 47	11 4	1 34	8 36	0 33	19 51	1 37	10 7	11 39	23 14	23 7	20 57	14 15	6 24
F 15	14 10	20 17	4 1	7 14	0 28	1 49	0 1	24 46	3 8	19 44	0 48	11 2	1 34	8 36	0 33	19 51	1 37	10 7	11 39	23 14	23 7	20 56	14 14	6 25
S 16	13 51	16 58	4 34	6 31	0 20	2 20	0s 3	24 50	3 7	19 45	0 48	10 59	1 34	8 37	0 33	19 51	1 37	10 7	11 39	23 13	23 7	20 54	14 12	6 25
S 17	13 32	12 57	4 55	5 48	0 12	2 50	0 7	24 54	3 7	19 47	0 48	10 56	1 34	8 38	0 33	19 51	1 37	10 7	11 39	23 12	23 7	20 53	14 11	6 25
M 18	13 13	8 25	5 3	5 6	0 4	3 21	0 11	24 57	3 6	19 49	0 48	10 53	1 34	8 39	0 33	19 51	1 37	10 7	11 39	23 11	23 6	20 51	14 9	6 25
T 19	12 53	3 31	4 57	4 24	0s 4	3 51	0 16	25 1	3 6	19 51	0 48	10 51	1 34	8 40	0 33	19 51	1 37	10 7	11 40	23 11	23 6	20 50	14 8	6 26
W 20	12 33	1s35	4 38	3 42	0 13	4 22	0 20	25 5	3 5	19 52	0 48	10 48	1 34	8 41	0 33	19 51	1 37	10 7	11 40	23 10	23 6	20 49	14 6	6 26
T 21	12 14	6 42	4 5	3 0	0 21	4 52	0 25	25 8	3 5	19 54	0 48	10 45	1 34	8 42	0 33	19 51	1 37	10 6	11 40	23 10	23 6	20 47	14 5	6 26
F 22	11 54	11 39	3 20	2 19	0 30	5 23	0 29	25 12	3 4	19 56	0 48	10 42	1 34	8 43	0 33	19 51	1 37	10 6	11 40	23 10	23 6	20 46	14 3	6 27
S 23	11 33	16 13	2 24	1 39	0 39	5 53	0 34	25 15	3 3	19 57	0 48	10 40	1 34	8 44	0 33	19 51	1 37	10 6	11 40	23 9	23 5	20 44	14 1	6 27
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SWISS EPHEMERIS for the year 1890

SEPTEMBER 1890

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Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄
M 1	22 40 26	8 ^m 28'33	3 ^Y 52	5 ^Ω 20	23 ^Ω 28	16 [♂] 33	3 [♁] R32	7 ^m 27	24 ^Ω 12	6 ^{II} 48	7 ^{II} 53	20 [♁] R22	19 ^{II} 40	14 ^Ω 30	0 ^Ω 6
T 2	22 44 22	9 [°] 26'39	18 [°] 22	6 [°] 23	24 [°] 33	17 [°] 6	3 [♁] 27	7 [°] 34	24 [°] 15	6 [°] 48	7 [°] 53	20 ^{II} 13	19 [°] 37	14 [°] 36	0 [°] 12
W 3	22 48 19	10 [°] 24'46	2 [♁] 24	7 [°] 24	25 [°] 38	17 [°] 39	3 [°] 22	7 [°] 42	24 [°] 18	6 [°] 48	7 [°] 53	20 [°] 6	19 [°] 34	14 [°] 43	0 [°] 18
T 4	22 52 16	11 [°] 22'56	15 [°] 57	8 [°] 22	26 [°] 42	18 [°] 12	3 [°] 17	7 [°] 50	24 [°] 21	6 [°] 49	7 [°] 53	20 [°] 2	19 [°] 31	14 [°] 50	0 [°] 24
F 5	22 56 12	12 [°] 21'07	29 [°] 0	9 [°] 17	27 [°] 47	18 [°] 46	3 [°] 13	7 [°] 57	24 [°] 24	6 [°] 49	7 [°] 53	20 [°] 0	19 [°] 28	14 [°] 56	0 [°] 30
S 6	23 0 9	13 [°] 19'21	11 ^{II} 39	10 [°] 10	28 [°] 51	19 [°] 19	3 [°] 8	8 [°] 5	24 [°] 27	6 [°] 49	7 [°] 54	19 [°] 59	19 [°] 24	15 [°] 3	0 [°] 36
S 7	23 4 5	14 [°] 17'36	23 [°] 58	10 [°] 59	29 [°] 55	19 [°] 53	3 [°] 4	8 [°] 12	24 [°] 30	6 [°] 49	7 [°] R54	19 [°] 59	19 [°] 21	15 [°] 10	0 [°] 42
M 8	23 8 2	15 [°] 15'54	6 [♁] 2	11 [°] 45	0 ^m 58	20 [°] 28	3 [°] 0	8 [°] 20	24 [°] 33	6 [°] 49	7 [°] 54	19 [°] 59	19 [°] 18	15 [°] 17	0 [°] 47
T 9	23 11 58	16 [°] 14'14	17 [°] 57	12 [°] 27	2 [°] 2	21 [°] 2	2 [°] 57	8 [°] 27	24 [°] 37	6 [°] 49	7 [°] 54	19 [°] 56	19 [°] 15	15 [°] 23	0 [°] 53
W10	23 15 55	17 [°] 12'36	29 [°] 46	13 [°] 6	3 [°] 5	21 [°] 37	2 [°] 53	8 [°] 35	24 [°] 40	6 [°] R49	7 [°] 53	19 [°] 51	19 [°] 12	15 [°] 30	0 [°] 59
T 11	23 19 51	18 [°] 10'59	11 ^Ω 35	13 [°] 40	4 [°] 8	22 [°] 12	2 [°] 49	8 [°] 42	24 [°] 43	6 [°] 49	7 [°] 53	19 [°] 44	19 [°] 9	15 [°] 37	1 [°] 4
F 12	23 23 48	19 [°] 9'25	23 [°] 27	14 [°] 10	5 [°] 11	22 [°] 48	2 [°] 46	8 [°] 50	24 [°] 46	6 [°] 49	7 [°] 53	19 [°] 33	19 [°] 5	15 [°] 43	1 [°] 10
S 13	23 27 45	20 [°] 7'53	5 ^m 23	14 [°] 36	6 [°] 14	23 [°] 23	2 [°] 43	8 [°] 57	24 [°] 49	6 [°] 49	7 [°] 53	19 [°] 20	19 [°] 2	15 [°] 50	1 [°] 15
S 14	23 31 41	21 [°] 6'22	17 [°] 26	14 [°] 56	7 [°] 16	23 [°] 59	2 [°] 40	9 [°] 5	24 [°] 53	6 [°] 49	7 [°] 53	19 [°] 7	18 [°] 59	15 [°] 57	1 [°] 21
M15	23 35 38	22 [°] 4'54	29 [°] 37	15 [°] 11	8 [°] 18	24 [°] 35	2 [°] 37	9 [°] 12	24 [°] 56	6 [°] 49	7 [°] 53	18 [°] 52	18 [°] 56	16 [°] 3	1 [°] 26
T 16	23 39 34	23 [°] 3'27	11 ^Ω 57	15 [°] 20	9 [°] 20	25 [°] 12	2 [°] 35	9 [°] 20	24 [°] 59	6 [°] 48	7 [°] 53	18 [°] 39	18 [°] 53	16 [°] 10	1 [°] 31
W17	23 43 31	24 [°] 2'02	24 [°] 26	15 [°] R24	10 [°] 21	25 [°] 48	2 [°] 33	9 [°] 27	25 [°] 3	6 [°] 48	7 [°] 53	18 [°] 29	18 [°] 49	16 [°] 17	1 [°] 37
T 18	23 47 27	25 [°] 0'39	7 ^m 6	15 [°] 20	11 [°] 22	26 [°] 25	2 [°] 30	9 [°] 35	25 [°] 6	6 [°] 48	7 [°] 52	18 [°] 20	18 [°] 46	16 [°] 24	1 [°] 42
F 19	23 51 24	25 [°] 59'18	19 [°] 36	15 [°] 10	12 [°] 23	27 [°] 2	2 [°] 28	9 [°] 42	25 [°] 9	6 [°] 48	7 [°] 52	18 [°] 15	18 [°] 43	16 [°] 30	1 [°] 47
S 20	23 55 20	26 [°] 57'59	3 [♂] 0	14 [°] 53	13 [°] 23	27 [°] 39	2 [°] 27	9 [°] 49	25 [°] 13	6 [°] 47	7 [°] 52	18 [°] 13	18 [°] 40	16 [°] 37	1 [°] 52
S 21	23 59 17	27 [°] 56'41	16 [°] 20	14 [°] 29	14 [°] 24	28 [°] 16	2 [°] 25	9 [°] 57	25 [°] 16	6 [°] 47	7 [°] 52	18 [°] D12	18 [°] 37	16 [°] 44	1 [°] 57
M22	0 3 14	28 [°] 55'25	29 [°] 56	13 [°] 58	15 [°] 23	28 [°] 54	2 [°] 24	10 [°] 4	25 [°] 20	6 [°] 47	7 [°] 51	18 [°] R12	18 [°] 34	16 [°] 50	2 [°] 2
T 23	0 7 10	29 [°] 54'11	13 [♁] 53	13 [°] 20	16 [°] 23	29 [°] 32	2 [°] 23	10 [°] 11	25 [°] 23	6 [°] 46	7 [°] 51	18 [°] 12	18 [°] 30	16 [°] 57	2 [°] 7
W24	0 11 7	0 ^Ω 52'58	28 [°] 8	12 [°] 34	17 [°] 22	0 [♁] 10	2 [°] 22	10 [°] 19	25 [°] 27	6 [°] 46	7 [°] 51	18 [°] 9	18 [°] 27	17 [°] 4	2 [°] 11
T 25	0 15 3	1 [°] 51'47	12 [♁] 42	11 [°] 42	18 [°] 21	0 [°] 48	2 [°] 21	10 [°] 26	25 [°] 30	6 [°] 45	7 [°] 50	18 [°] 5	18 [°] 24	17 [°] 11	2 [°] 16
F 26	0 19 0	2 [°] 50'38	27 [°] 30	10 [°] 45	19 [°] 19	1 [°] 26	2 [°] 20	10 [°] 33	25 [°] 34	6 [°] 45	7 [°] 50	17 [°] 57	18 [°] 21	17 [°] 17	2 [°] 21
S 27	0 22 56	3 [°] 49'30	12 [♁] 26	9 [°] 43	20 [°] 17	2 [°] 5	2 [°] 20	10 [°] 40	25 [°] 37	6 [°] 44	7 [°] 49	17 [°] 48	18 [°] 18	17 [°] 24	2 [°] 25
S 28	0 26 53	4 [°] 48'25	27 [°] 20	8 [°] 37	21 [°] 14	2 [°] 44	2 [°] D20	10 [°] 48	25 [°] 41	6 [°] 44	7 [°] 49	17 [°] 37	18 [°] 15	17 [°] 31	2 [°] 30
M29	0 30 49	5 [°] 47'21	12 ^Y 4	7 [°] 29	22 [°] 11	3 [°] 23	2 [°] 20	10 [°] 55	25 [°] 44	6 [°] 43	7 [°] 49	17 [°] 26	18 [°] 11	17 [°] 37	2 [°] 34
T 30	0 34 46	6 ^Ω 46'19	26 ^Y 29	6 ^Ω 21	23 ^m 8	4 [♁] 2	2 [♁] 20	11 ^m 2	25 ^Ω 48	6 ^{II} 42	7 ^{II} 48	17 ^{II} 17	18 ^{II} 8	17 ^Ω 44	2 ^Ω 39

Day	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♁	♃	♄	♅									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
M 1	8n24	2s56	4s53	3s59	2s 1	10s19	1s17	25s43	2s58	20s10	0s48	10n15	1n35	8s53	0n33	19n51	1s38	10n 5	11s42	23n 6	23n 3	20n31	13n47	6s30
T 2	8 2	3n 6	4 26	4 32	2 10	10 47	1 22	25 46	2 57	20 11	0 48	10 12	1 35	8 54	0 33	19 51	1 38	10 4	11 43	23 6	23 3	20 29	13 46	6 30
W 3	7 40	8 49	3 44	5 4	2 19	11 16	1 27	25 48	2 56	20 12	0 48	10 9	1 35	8 55	0 33	19 51	1 38	10 4	11 43	23 5	23 3	20 28	13 44	6 31
T 4	7 18	13 55	2 50	5 35	2 28	11 44	1 32	25 50	2 55	20 13	0 48	10 6	1 35	8 56	0 33	19 51	1 38	10 4	11 43	23 5	23 2	20 26	13 42	6 31
F 5	6 56	18 11	1 49	6 5	2 37	12 12	1 37	25 53	2 54	20 14	0 48	10 4	1 35	8 58	0 33	19 51	1 38	10 4	11 43	23 5	23 2	20 25	13 41	6 31
S 6	6 34	21 28	0 44	6 34	2 46	12 40	1 42	25 55	2 55	20 15	0 48	10 1	1 35	8 59	0 33	19 51	1 38	10 4	11 43	23 5	23 2	20 23	13 39	6 32
S 7	6 11	23 40	0n21	7 1	2 54	13 7	1 47	25 57	2 53	20 16	0 48	9 58	1 35	9 0	0 33	19 51	1 38	10 3	11 44	23 5	23 2	20 22	13 38	6 32
M 8	5 49	24 43	1 24	7 26	3 2	13 35	1 52	25 59	2 52	20 17	0 48	9 55	1 35	9 1	0 33	19 51	1 38	10 3	11 44	23 5	23 1	20 20	13 36	6 33
T 9	5 26	24 36	2 22	7 50	3 10	14 2	1 58	26 0	2 52	20 18	0 48	9 53	1 35	9 2	0 33	19 51	1 38	10 3	11 44	23 4	23 1	20 19	13 34	6 33
W10	5 3	23 22	3 14	8 12	3 17	14 28	2 3	26 2	2 51	20 19	0 48	9 50	1 35	9 3	0 32	19 51	1 38	10 3	11 44	23 4	23 1	20 17	13 33	6 34
T 11	4 41	21 6	3 57	8 32	3 24	14 55	2 8	26 3	2 50	20 20	0 48	9 47	1 35	9 5	0 32	19 51	1 38	10 2	11 44	23 3	23 1	20 16	13 31	6 34
F 12	4 18	17 57	4 30	8 50	3 31	15 21	2 13	26 4	2 49	20 20	0 48	9 44	1 36	9 6	0 32	19 51	1 38	10 2	11 45	23 3	23 0	20 14	13 29	6 34
S 13	3 55	14 3	4 51	9 5	3 37	15 47	2 18	26 5	2 48	20 21	0 48	9 42	1 36	9 7	0 32	19 51	1 38	10 2	11 45	23 2	23 0	20 13	13 28	6 35
S 14	3 32	9 33	4 59	9 18	3 43	16 12	2 23	26 6	2 47	20 22	0 48	9 39	1 36	9 8	0 32	19 51	1 38	10 2	11 45	23 0	23 0	20 11	13 26	6 35
M15	3 9	4 39	4 54	9 29	3 47	16 37	2 29	26 7	2 47	20 22	0 48	9 36	1 36	9 9	0 32	19 51	1 38	10 2	11 45	22 59	23 0	20 9	13 25	6 36
T 16	2 45	0s30	4 36	9 36	3 51	17 2	2 34	26 8	2 46	20 23	0 48	9 33	1 36	9 11	0 32	19 51	1 38	10 1	11 46	22 58	22 59	20 8	13 23	6 36
W17	2 22	5 42	4 3	9 40	3 54	17 27	2 39	26 8	2 45	20 23	0 48	9 31	1 36	9 12	0 32	19 51	1 38	10 1	11 46	22 57	22 59	20 6	13 22	6 37
T 18	1 59	10 45	3 19	9 41	3 56	17 51	2 44	26 8	2 44	20 24	0 48	9 28	1 36	9 13	0 32	19 51	1 38	10 1	11 46	22 57	22 59	20 5	13 20	6 37
F 19	1 36	15 26	2 23	9 38	3 57	18 15	2 49	26 8	2 43	20 24	0 48	9 25	1 36	9 14	0 32	19 50	1							

SWISS EPHEMERIS for the year 1890

OCTOBER 1890

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
W 1	0 38 42	7 ^h 45'20"	10 ^h 30'	5°R14	24 ^m 4	4 ^h 34'	2 ^h 20'	11 ^h 9'	25 ^h 52'	6°R42	7°R48	17°R10	18 ^h 5	17 ^h 51'	2 ^h 43'
T 2	0 42 39	8°44'22"	24° 4	4 ^h 10'	24°59	5°20	2°21	11°16	25°55	6 ^h 11'	7 ^h 11'	17 ^h 5	18° 2	17°57	2°47
F 3	0 46 36	9°43'27"	7 ^h 11'	3°12	25°54	6° 0	2°22	11°23	25°59	6°40	7°47	17° 3	17°59	18° 4	2°51
S 4	0 50 32	10°42'35"	19°53	2°20	26°49	6°39	2°23	11°30	26° 3	6°39	7°46	17°D 3	17°55	18°11	2°56
S 5	0 54 29	11°41'45"	2 ^h 51'	1°36	27°43	7°19	2°24	11°37	26° 6	6°39	7°46	17° 3	17°52	18°18	3° 0
M 6	0 58 25	12°40'57"	14°20	1° 1	28°36	7°59	2°25	11°44	26°10	6°38	7°45	17°R 3	17°49	18°24	3° 3
T 7	1 2 22	13°40'11"	26°16	0°37	29°29	8°39	2°27	11°51	26°14	6°37	7°44	17° 2	17°46	18°31	3° 7
W 8	1 6 18	14°39'27"	8 ^h 7'	0°22	0 ^h 21'	9°20	2°29	11°57	26°17	6°36	7°44	17° 0	17°43	18°38	3°11
T 9	1 10 15	15°38'46"	19°57	0°D19	1°13	10° 0	2°31	12° 4	26°21	6°35	7°43	16°54	17°40	18°44	3°15
F 10	1 14 11	16°38'07"	1 ^h 52'	0°27	2° 4	10°41	2°33	12°11	26°25	6°34	7°42	16°47	17°36	18°51	3°18
S 11	1 18 8	17°37'31"	13°53	0°45	2°54	11°21	2°35	12°18	26°29	6°33	7°42	16°37	17°33	18°58	3°22
S 12	1 22 5	18°36'56"	26° 5	1°13	3°43	12° 2	2°38	12°24	26°32	6°32	7°41	16°26	17°30	19° 4	3°25
M13	1 26 1	19°36'24"	8 ^h 28'	1°50	4°32	12°43	2°40	12°31	26°36	6°31	7°40	16°15	17°27	19°11	3°29
T 14	1 29 58	20°35'53"	21° 3	2°37	5°20	13°24	2°43	12°37	26°40	6°30	7°40	16° 5	17°24	19°18	3°32
W15	1 33 54	21°35'25"	3 ^h 15'	3°31	6° 7	14° 6	2°46	12°44	26°44	6°29	7°39	15°56	17°20	19°25	3°35
T 16	1 37 51	22°34'59"	16°48	4°32	6°53	14°47	2°50	12°50	26°47	6°28	7°38	15°50	17°17	19°31	3°38
F 17	1 41 47	23°34'35"	29°58	5°40	7°39	15°28	2°53	12°57	26°51	6°27	7°37	15°47	17°14	19°38	3°41
S 18	1 45 44	24°34'12"	13 ^h 19'	6°53	8°23	16°10	2°57	13° 3	26°55	6°26	7°37	15°D46	17°11	19°45	3°44
S 19	1 49 40	25°33'52"	26°51	8°11	9° 7	16°52	3° 1	13° 9	26°59	6°25	7°36	15°46	17° 8	19°51	3°47
M20	1 53 37	26°33'33"	10 ^h 35'	9°34	9°50	17°34	3° 5	13°15	27° 3	6°23	7°35	15°47	17° 5	19°58	3°50
T 21	1 57 34	27°33'16"	24°30	10°59	10°31	18°16	3° 9	13°22	27° 6	6°22	7°34	15°R48	17° 1	20° 5	3°52
W22	2 1 30	28°33'00"	8 ^h 37'	12°28	11°12	18°58	3°13	13°28	27°10	6°21	7°33	15°47	16°58	20°12	3°55
T 23	2 5 27	29°32'46"	22°55	13°59	11°51	19°40	3°18	13°34	27°14	6°20	7°33	15°45	16°55	20°18	3°57
F 24	2 9 23	0 ^h 32'34"	7 ^h 20'	15°33	12°29	20°22	3°23	13°40	27°18	6°18	7°32	15°41	16°52	20°25	4° 0
S 25	2 13 20	1°32'23"	21°49	17° 7	13° 6	21° 4	3°28	13°46	27°21	6°17	7°31	15°35	16°49	20°32	4° 2
S 26	2 17 16	2°32'14"	6 ^h 16'	18°43	13°42	21°47	3°33	13°52	27°25	6°16	7°30	15°28	16°46	20°38	4° 4
M27	2 21 13	3°32'07"	20°36	20°20	14°16	22°29	3°38	13°57	27°29	6°14	7°29	15°21	16°42	20°45	4° 6
T 28	2 25 9	4°32'02"	4 ^h 42'	21°58	14°49	23°12	3°44	14° 3	27°33	6°13	7°28	15°15	16°39	20°52	4° 8
W29	2 29 6	5°31'59"	18°29	23°37	15°20	23°55	3°49	14° 9	27°36	6°12	7°27	15°11	16°36	20°58	4°10
T 30	2 33 3	6°31'58"	1 ^h 55'	25°15	15°50	24°38	3°55	14°14	27°40	6°10	7°26	15° 8	16°33	21° 5	4°12
F 31	2 36 59	7 ^h 31'59"	14 ^h 59'	26°54	16 ^h 19'	25°30'	4 ^h 1	14 ^h 20'	27°44	6 ^h 9'	7 ^h 25'	15°D 7	16 ^h 30'	21 ^h 12'	4 ^h 13'

Day	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
W 1	3s 5	12n 7	3s 1	3s56	2s 1	22s29	3s49	25s54	2s32	20s26	0s48	8n54	1n38	9s30	0n32	19n49	1s39	9n58	11s48	22n50	22n55	19n43	13n 0	6s44
T 2	3 28	16 53	1 59	3 13	1 42	22 48	3 53	25 51	2 31	20 26	0 48	8 51	1 38	9 31	0 32	19 49	1 39	9 57	11 49	22 50	22 55	19 42	12 58	6 45
F 3	3 51	20 40	0 52	2 31	1 21	23 5	3 58	25 49	2 30	20 25	0 48	8 49	1 38	9 33	0 32	19 49	1 39	9 57	11 49	22 49	22 55	19 40	12 57	6 46
S 4	4 15	23 19	0n15	1 51	1 1	23 23	4 2	25 46	2 29	20 25	0 48	8 46	1 38	9 34	0 32	19 48	1 39	9 57	11 49	22 49	22 54	19 38	12 55	6 46
S 5	4 38	24 46	1 20	1 15	0 40	23 40	4 7	25 43	2 28	20 25	0 48	8 44	1 38	9 35	0 32	19 48	1 39	9 57	11 49	22 49	22 54	19 37	12 54	6 47
M 6	5 1 25	0 2	2 20	0 43	0 21	23 56	4 11	25 39	2 27	20 24	0 48	8 41	1 38	9 37	0 32	19 48	1 39	9 56	11 49	22 49	22 54	19 35	12 52	6 47
T 7	5 24	24 4	3 13	0 16	0 2	24 12	4 15	25 36	2 26	20 24	0 48	8 39	1 39	9 38	0 32	19 48	1 39	9 56	11 50	22 49	22 53	19 33	12 51	6 48
W 8	5 47	22 4	3 57	0n 6	0n16	24 27	4 19	25 32	2 25	20 24	0 48	8 36	1 39	9 39	0 32	19 48	1 39	9 56	11 50	22 49	22 53	19 32	12 49	6 49
T 9	6 10	19 8	4 31	0 23	0 33	24 42	4 23	25 28	2 24	20 23	0 48	8 34	1 39	9 41	0 32	19 47	1 39	9 56	11 50	22 49	22 53	19 30	12 48	6 49
F 10	6 33	15 23	4 54	0 34	0 49	24 57	4 27	25 24	2 23	20 23	0 48	8 31	1 39	9 42	0 32	19 47	1 39	9 55	11 50	22 48	22 53	19 28	12 47	6 50
S 11	6 55	11 0	5 4	0 40	1 3	25 11	4 31	25 19	2 22	20 22	0 48	8 29	1 39	9 44	0 32	19 47	1 39	9 55	11 50	22 47	22 52	19 26	12 45	6 51
S 12	7 18	6 8	5 0	0 40	1 15	25 24	4 35	25 15	2 21	20 21	0 47	8 26	1 39	9 45	0 32	19 47	1 39	9 55	11 50	22 46	22 52	19 25	12 44	6 51
M13	7 41	0 58	4 42	0 35	1 26	25 37	4 38	25 10	2 20	20 21	0 47	8 24	1 39	9 46	0 32	19 47	1 39	9 55	11 51	22 45	22 52	19 23	12 42	6 52
T 14	8 3	4s21	4 10	0 25	1 35	25 49	4 42	25 4	2 18	20 20	0 47	8 22	1 40	9 48	0 32	19 46	1 39	9 54	11 51	22 44	22 51	19 21	12 41	6 53
W15	8 25	9 35	3 25	0 11	1 43	26 1	4 45	24 59	2 17	20 19	0 47	8 19	1 40	9 49	0 32	19 46	1 40	9 54	11 51	22 43	22 51	19 19	12 40	6 53
T 16	8 48	14 29	2 29	0s 8	1 50	26 12	4 48	24 54	2 16	20 18	0 47	8 17	1 40	9 50	0 32	19 46	1 40	9 54	11 51	22 42	22 51	19 18	12 38	6 54
F 17	9 10	18 47	1 24	0 30	1 55	26 23	4 51	24 48	2 15	20 18	0 47	8 15	1 40	9 52	0 32	19 46	1 40	9 54	11 51	22 42	22 50	19 16	12 37	6 55
S 18	9 32	22 12	0 13	0 55	1 59	26 33	4 54	24 42	2 14	20 17	0 47	8 12	1 40	9 53	0 32	19 46	1 40	9 53	11 51	22 42	22 50	19 14	12 36	6 55
S 19	9 53	24 24	0s59	1 24	2 1	26 43	4 57	24 35	2 13	20 16	0 47	8 10	1 40	9 54	0 32	19 45	1 40	9 53	11 51	22 42	22 50	19 12	12 34	6 56
M20	10 15	25 11	2 10	1 54	2 3	26 52	4 59	24 29	2 12	20 15	0 47	8 8	1 41	9 56	0 32	19 45	1 40	9 53	11 52	22 42	22 50	19 11	12 33	6 57
T 21	10 37	24 24	3 13	2 27	2 4	27 1	5 2	24 22	2 11	20 14	0 47	8 6	1 41	9 57	0 32	19 45	1 40	9 53	11 52	22 42	22 49	19 9	12 32	6 57
W22	10 58	22 4	4 6	3 2	2 3	27 9	5 4	24 15	2 10	20 13	0 47	8 3	1 41	9 59	0 32	19 45	1 40	9 52	11 52	22 42	22 49	19 7	12 31	6 58
T 23	11 19	18 22	4 44	3 39	2 2	27 16	5 6	24 8	2 9	20 11	0 47	8 1	1 41	10 0	0 32	19 44	1 40	9 52	11 52	22 42	22 49	19 5	12 29	6 59
F 24	11 40	13 32	5 5	4 16	2 0	27 23	5 7	24 1	2 8	20 10	0 47	7 59	1 41	10 1	0 32	19 44	1 40	9 52	11 52	22 41	22 48	19 3	12 28	6 59
S 25	12 1	7 56	5 7	4 55	1 58	27 29	5 9	23 53	2 7	20 9	0 47	7 57	1 42	10 3	0 32	19 44	1 40	9 52	11 52	22 40	22 48	19 2	12 27	7 0
S 26	12 22	1 55	4 48	5 34	1 55	27 35	5 10	23 45	2 5	20 8	0 47	7 55	1 42	10 4	0 32	19 44	1 40	9 51	11 52	22 40	22 48	19 0	12 26	7 1
M27	12 42	4n 9	4 12	6 14	1 51	27 41	5 11	23 37	2 4	20 7	0 47	7 53	1 42	10 5	0 32	19 43	1 40	9 51	11 52	22 39	22 47	18 58	12 25	7 1
T 28	13 2	9 56	3 21	6 54	1 47	27 45	5 12	23 29	2 3	20 5	0 47	7 51	1 42	10 7	0 32									

SWISS EPHEMERIS for the year 1890

NOVEMBER 1890

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♄	♃	♅	♁	♆	♁	♁	♁	♁	♁
S 1	2 40 56	8♍32'01	27♂41	28♂33	16♂46	26♂3	4♁7	14♎25	27♂48	6°R 7	7°R24	15♂8	16♂26	21♂19	4♂15
S 2	2 44 52	9°32'06	10♂5	0♍12	17°11	26°46	4°14	14°31	27°51	6♂6	7♂23	15°9	16°23	21°25	4°16
M 3	2 48 49	10°32'14	22°13	1°51	17°34	27°30	4°20	14°36	27°55	6°4	7°22	15°11	16°20	21°32	4°18
T 4	2 52 45	11°32'23	4♂11	3°30	17°56	28°13	4°27	14°41	27°59	6°3	7°21	15°12	16°17	21°39	4°19
W 5	2 56 42	12°32'34	16°4	5°9	18°16	28°56	4°34	14°47	28°3	6°1	7°20	15°R13	16°14	21°45	4°20
T 6	3 0 38	13°32'47	27°56	6°47	18°34	29°39	4°40	14°52	28°6	6°0	7°19	15°11	16°11	21°52	4°21
F 7	3 4 35	14°33'02	9♎52	8°26	18°50	0♁23	4°48	14°57	28°10	5°58	7°18	15°9	16°7	21°59	4°22
S 8	3 8 32	15°33'19	21°56	10°3	19°3	1°6	4°55	15°2	28°14	5°57	7°17	15°5	16°4	22°6	4°23
S 9	3 12 28	16°33'38	4♂13	11°41	19°15	1°50	5°2	15°7	28°17	5°55	7°16	15°0	16°1	22°12	4°24
M10	3 16 25	17°33'59	16°44	13°18	19°25	2°33	5°10	15°11	28°21	5°53	7°15	14°56	15°58	22°19	4°25
T 11	3 20 21	18°34'22	29°32	14°55	19°32	3°17	5°18	15°16	28°24	5°52	7°14	14°51	15°55	22°26	4°25
W12	3 24 18	19°34'47	12♍36	16°32	19°37	4°1	5°25	15°21	28°28	5°50	7°13	14°47	15°52	22°32	4°26
T 13	3 28 14	20°35'13	25°57	18°9	19°40	4°45	5°33	15°25	28°32	5°49	7°12	14°45	15°48	22°39	4°26
F 14	3 32 11	21°35'41	9♂32	19°45	19°R41	5°29	5°42	15°30	28°35	5°47	7°11	14°D44	15°45	22°46	4°26
S 15	3 36 7	22°36'11	23°19	21°21	19°39	6°13	5°50	15°34	28°39	5°45	7°10	14°44	15°42	22°53	4°27
S 16	3 40 4	23°36'42	7♂16	22°56	19°34	6°57	5°58	15°39	28°42	5°44	7°9	14°45	15°39	22°59	4°R27
M17	3 44 1	24°37'14	21°19	24°32	19°28	7°41	6°7	15°43	28°46	5°42	7°7	14°46	15°36	23°6	4°27
T 18	3 47 57	25°37'48	5♁28	26°7	19°18	8°25	6°16	15°47	28°49	5°40	7°6	14°48	15°32	23°13	4°27
W19	3 51 54	26°38'23	19°39	27°42	19°6	9°9	6°25	15°51	28°53	5°39	7°5	14°48	15°29	23°19	4°26
T 20	3 55 50	27°38'59	3♂50	29°16	18°52	9°53	6°34	15°55	28°56	5°37	7°4	14°R49	15°26	23°26	4°26
F 21	3 59 47	28°39'36	17°59	0♁51	18°36	10°37	6°43	15°59	29°0	5°35	7°3	14°48	15°23	23°33	4°26
S 22	4 3 43	29°40'14	2°Y 5	2°25	18°17	11°22	6°52	16°3	29°3	5°34	7°2	14°46	15°20	23°40	4°25
S 23	4 7 40	0♁740'53	16°4	3°59	17°55	12°6	7°1	16°6	29°6	5°32	7°1	14°44	15°17	23°46	4°24
M24	4 11 36	1°41'34	29°53	5°33	17°32	12°50	7°11	16°10	29°10	5°30	7°0	14°42	15°13	23°53	4°24
T 25	4 15 33	2°42'15	13♂31	7°7	17°6	13°35	7°21	16°13	29°13	5°29	6°58	14°41	15°10	24°0	4°23
W26	4 19 30	3°42'58	26°55	8°41	16°38	14°19	7°30	16°17	29°16	5°27	6°57	14°40	15°7	24°6	4°22
T 27	4 23 26	4°43'43	10♂4	10°14	16°9	15°4	7°40	16°20	29°20	5°25	6°56	14°D39	15°4	24°13	4°21
F 28	4 27 23	5°44'28	22°55	11°48	15°38	15°48	7°50	16°23	29°23	5°24	6°55	14°39	15°1	24°20	4°20
S 29	4 31 19	6°45'15	5♂31	13°21	15°5	16°33	8°0	16°26	29°26	5°22	6°54	14°40	14°58	24°27	4°18
S 30	4 35 16	7♂46'03	17♂52	14♂54	14♂32	17♂17	8♁11	16♎29	29♂29	5♂20	6♂53	14♂41	14♂54	24♂33	4♂17

Day	☉	☽	♀	♂	♄	♃	♅	♁	♆	♁	♁	♁	♁	♁	♁									
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat									
S 1	14s21	24n34	1n 8	9s36	1n27	27s58	5s12	22s54	1s59	19s59	0s46	7n43	1n43	10s12	0n32	19n42	1s40	9n50	11s53	22n37	22n46	18n49	12n19	7s 5
S 2	14 41 25	16 2 12	10 17	1 22	28 0	5 11	22 44	1 58	19 58	0 46	7 41	1 43	10 13	0 32	19 42	1 40	9 50	11 53	22 38	22 45	18 47	12 18	7 6	
M 3	15 0 24	43 3 9	10 57	1 16	28 1	5 10	22 35	1 56	19 56	0 46	7 39	1 43	10 15	0 32	19 41	1 40	9 49	11 53	22 38	22 45	18 45	12 17	7 6	
T 4	15 18 23	3 3 56	11 36	1 9	28 2	5 9	22 25	1 55	19 55	0 46	7 37	1 43	10 16	0 32	19 41	1 40	9 49	11 53	22 38	22 45	18 43	12 16	7 7	
W 5	15 37 20	22 4 33	12 15	1 3	28 2	5 7	22 15	1 54	19 53	0 46	7 36	1 44	10 17	0 32	19 41	1 40	9 49	11 53	22 38	22 44	18 42	12 15	7 8	
T 6	15 55 16	52 4 59	12 54	0 57	28 1	5 5	22 5	1 53	19 51	0 46	7 34	1 44	10 19	0 32	19 41	1 40	9 49	11 53	22 38	22 44	18 40	12 14	7 9	
F 7	16 13 12	41 5 11	13 32	0 50	28 0	5 2	21 54	1 52	19 50	0 46	7 32	1 44	10 20	0 32	19 40	1 40	9 48	11 53	22 38	22 44	18 38	12 13	7 9	
S 8	16 30 7	57 5 10	14 9	0 44	27 58	4 59	21 43	1 51	19 48	0 46	7 30	1 44	10 21	0 32	19 40	1 40	9 48	11 53	22 37	22 44	18 36	12 12	7 10	
S 9	16 48 2	51 4 55	14 46	0 37	27 56	4 56	21 33	1 50	19 46	0 46	7 29	1 45	10 23	0 32	19 40	1 40	9 48	11 53	22 37	22 43	18 34	12 12	7 11	
M10	17 5 28	29 4 26	15 22	0 30	27 53	4 52	21 22	1 48	19 44	0 46	7 27	1 45	10 24	0 32	19 39	1 40	9 48	11 53	22 36	22 43	18 32	12 11	7 11	
T 11	17 22 7	50 3 43	15 57	0 23	27 49	4 47	21 10	1 47	19 42	0 46	7 25	1 45	10 25	0 32	19 39	1 40	9 48	11 54	22 36	22 43	18 30	12 10	7 12	
W12	17 38 12	58 2 47	16 32	0 17	27 45	4 43	20 59	1 46	19 40	0 46	7 24	1 45	10 26	0 32	19 39	1 40	9 47	11 54	22 35	22 42	18 28	12 9	7 13	
T 13	17 55 17	37 1 41	17 5	0 10	27 39	4 37	20 47	1 45	19 38	0 46	7 22	1 45	10 28	0 32	19 39	1 40	9 47	11 54	22 35	22 42	18 26	12 8	7 14	
F 14	18 10 21	25 0 29	17 38	0 3	27 34	4 31	20 35	1 44	19 36	0 46	7 21	1 46	10 29	0 32	19 38	1 40	9 47	11 54	22 35	22 41	18 25	12 7	7 14	
S 15	18 26 24	4 0s47	18 10	0s 4	27 27	4 25	20 23	1 43	19 34	0 46	7 19	1 46	10 30	0 32	19 38	1 40	9 47	11 54	22 35	22 41	18 23	12 7	7 15	
S 16	18 41 25	16 2 1	18 41	0 10	27 20	4 18	20 11	1 41	19 32	0 46	7 18	1 46	10 31	0 32	19 38	1 40	9 47	11 54	22 35	22 41	18 21	12 6	7 16	
M17	18 56 24	52 3 8	19 11	0 17	27 11	4 10	19 59	1 40	19 30	0 46	7 16	1 46	10 33	0 32	19 37	1 40	9 46	11 54	22 35	22 40	18 19	12 5	7 16	
T 18	19 11 22	52 4 4	19 41	0 24	27 2	4 2	19 46	1 39	19 27	0 46	7 15	1 47	10 34	0 32	19 37	1 40	9 46	11 54	22 35	22 40	18 17	12 5	7 17	
W19	19 25 19	27 4 46	20 9	0 30	26 53	3 53	19 33	1 38	19 25	0 46	7 13	1 47	10 35	0 32	19 37	1 40	9 46	11 54	22 35	22 40	18 15	12 4	7 18	
T 20	19 39 14	55 5 10	20 36	0 37	26 42	3 44	19 20	1 37	19 23	0 46	7 12	1 47	10 36	0 32	19 37	1 40	9 46	11 54	22 35	22 39	18 13	12 3	7 19	
F 21	19 52 9	35 5 15	21 2	0 43	26 31	3 34	19 7	1 36	19 21	0 46	7 11	1 47	10 38	0 32	19 36	1 40	9 46	11 54	22 35	22 39	18 11	12 3	7 19	
S 22	20 6 3	47 5 1	21 28	0 49	26 19	3 23	18 54	1 35	19 18	0 46	7 10	1 48	10 39	0 32	19 36	1 40	9 45	11 54	22 35	22 39	18 9	12 2	7 20	
S 23	20 18 2n10	4 30	21 52	0 55	26 6	3 12	18 40	1 33	19 16	0 46	7 8	1 48	10 40	0 32	19 36	1 40	9 45	11 54	22 35	22 38	18 7	12 2	7 21	
M24	20 31 7	58 3 43	22 15	1 1	25 52	3 0	18 27	1 32	19 13	0 46	7 7	1 48	10 41	0 32	19 35	1 40	9 45	11 54	22 35	22 38	18 5	12 1	7 21	
T 25	20 43 13	18 2 44	22 37	1 7	25 37	2 48	18 13	1 31	19 11	0 46	7 6	1 48	10 42	0 32	19 35	1 40	9 45	11 54	22 34	22 38	18 3	12 1	7 22	
W26	20 54 17	55 1 37	22 58	1 13	25 21	2 35	17 59	1 30	19 8	0 45	7 5	1 49	10 43	0 32	19 35	1 40	9 45	11 54	22 34	22 37	18 1	12 0	7 23	
T 27	21 6 21	33 0 25	23 17	1 18	25 5	2 22	17 44	1 29	19 6	0 45	7 4	1 49	10 45	0 32	19 34	1 40	9 45	11 54	22 34	22 37	17 59	12 0	7 23	
F 28	21 17 24	1 0n46	23 36	1 24	24 48	2 8	17 30	1 28	19 3	0 45	7 3	1 49	10 46	0 32	19 34	1 40	9 45	11 54	22 34	22 37	17 57	12 0	7 24	
S 29	21 27 25	13 1 53	23 53	1 29	24 30	1 54	17 16	1 26	19 0	0 45	7 2	1 49	10 47	0 32	19 34	1 40	9 44							

SWISS EPHEMERIS for the year 1890

DECEMBER 1890

00:00 UT

Day	Sid.t	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒
M 1	4 39 12	8 ^h 46 ^m 53 ^s	29 ^h 59 ^m	16 ^h 28 ^m	13 ^h 57 ^m	18 ^h 2 ^m	8 ^h 21 ^m	16 ^h 32 ^m	29 ^h 32 ^m	5 ^h 18 ^m	6 ^h 52 ^m	14 ^h 41 ^m	14 ^h 51 ^m	24 ^h 40 ^m	4 ^h 16 ^m				
T 2	4 43 9	9 ^h 47 ^m 44 ^s	11 ^h 59 ^m	18 ^h 1 ^m	13 ^h 21 ^m	18 ^h 46 ^m	8 ^h 31 ^m	16 ^h 35 ^m	29 ^h 35 ^m	5 ^h 17 ^m	6 ^h 51 ^m	14 ^h 42 ^m	14 ^h 48 ^m	24 ^h 47 ^m	4 ^h 14 ^m				
W 3	4 47 5	10 ^h 48 ^m 36 ^s	23 ^h 52 ^m	19 ^h 34 ^m	12 ^h 45 ^m	19 ^h 31 ^m	8 ^h 42 ^m	16 ^h 38 ^m	29 ^h 39 ^m	5 ^h 15 ^m	6 ^h 49 ^m	14 ^h 42 ^m	14 ^h 45 ^m	24 ^h 53 ^m	4 ^h 12 ^m				
T 4	4 51 2	11 ^h 49 ^m 30 ^s	5 ^h 44 ^m	21 ^h 7 ^m	12 ^h 9 ^m	20 ^h 16 ^m	8 ^h 53 ^m	16 ^h 41 ^m	29 ^h 42 ^m	5 ^h 13 ^m	6 ^h 48 ^m	14 ^h 43 ^m	14 ^h 42 ^m	25 ^h 0 ^m	4 ^h 11 ^m				
F 5	4 54 59	12 ^h 50 ^m 25 ^s	17 ^h 39 ^m	22 ^h 40 ^m	11 ^h 32 ^m	21 ^h 0 ^m	9 ^h 3 ^m	16 ^h 43 ^m	29 ^h 45 ^m	5 ^h 12 ^m	6 ^h 47 ^m	14 ^h 43 ^m	14 ^h 38 ^m	25 ^h 7 ^m	4 ^h 9 ^m				
S 6	4 58 55	13 ^h 51 ^m 21 ^s	29 ^h 43 ^m	24 ^h 13 ^m	10 ^h 56 ^m	21 ^h 45 ^m	9 ^h 14 ^m	16 ^h 45 ^m	29 ^h 48 ^m	5 ^h 10 ^m	6 ^h 46 ^m	14 ^h 42 ^m	14 ^h 35 ^m	25 ^h 14 ^m	4 ^h 7 ^m				
S 7	5 2 52	14 ^h 52 ^m 18 ^s	11 ^h 59 ^m	25 ^h 46 ^m	10 ^h 20 ^m	22 ^h 30 ^m	9 ^h 25 ^m	16 ^h 48 ^m	29 ^h 51 ^m	5 ^h 8 ^m	6 ^h 45 ^m	14 ^h D42	14 ^h 32 ^m	25 ^h 20 ^m	4 ^h 5 ^m				
M 8	5 6 48	15 ^h 53 ^m 16 ^s	24 ^h 32 ^m	27 ^h 19 ^m	9 ^h 45 ^m	23 ^h 14 ^m	9 ^h 36 ^m	16 ^h 50 ^m	29 ^h 53 ^m	5 ^h 7 ^m	6 ^h 44 ^m	14 ^h 43 ^m	14 ^h 29 ^m	25 ^h 27 ^m	4 ^h 3 ^m				
T 9	5 10 45	16 ^h 54 ^m 16 ^s	7 ^h 42 ^m	28 ^h 52 ^m	9 ^h 11 ^m	23 ^h 59 ^m	9 ^h 48 ^m	16 ^h 52 ^m	29 ^h 56 ^m	5 ^h 5 ^m	6 ^h 43 ^m	14 ^h 43 ^m	14 ^h 26 ^m	25 ^h 34 ^m	4 ^h 1 ^m				
W10	5 14 41	17 ^h 55 ^m 17 ^s	20 ^h 39 ^m	0 ^h 25 ^m	8 ^h 38 ^m	24 ^h 44 ^m	9 ^h 59 ^m	16 ^h 54 ^m	29 ^h 59 ^m	5 ^h 3 ^m	6 ^h 41 ^m	14 ^h 43 ^m	14 ^h 23 ^m	25 ^h 40 ^m	3 ^h 58 ^m				
T 11	5 18 38	18 ^h 56 ^m 19 ^s	4 ^h 16 ^m	1 ^h 57 ^m	8 ^h 7 ^m	25 ^h 29 ^m	10 ^h 10 ^m	16 ^h 56 ^m	0 ^h 2 ^m	5 ^h 2 ^m	6 ^h 40 ^m	14 ^h 43 ^m	14 ^h 19 ^m	25 ^h 47 ^m	3 ^h 56 ^m				
F 12	5 22 34	19 ^h 57 ^m 22 ^s	18 ^h 13 ^m	3 ^h 30 ^m	7 ^h 37 ^m	26 ^h 14 ^m	10 ^h 22 ^m	16 ^h 58 ^m	0 ^h 5 ^m	5 ^h 0 ^m	6 ^h 39 ^m	14 ^h R43	14 ^h 16 ^m	25 ^h 54 ^m	3 ^h 54 ^m				
S 13	5 26 31	20 ^h 58 ^m 25 ^s	2 ^h 27 ^m	5 ^h 2 ^m	7 ^h 8 ^m	26 ^h 59 ^m	10 ^h 33 ^m	16 ^h 59 ^m	0 ^h 8 ^m	4 ^h 58 ^m	6 ^h 38 ^m	14 ^h 43 ^m	14 ^h 13 ^m	26 ^h 1 ^m	3 ^h 51 ^m				
S 14	5 30 28	21 ^h 59 ^m 30 ^s	16 ^h 54 ^m	6 ^h 33 ^m	6 ^h 42 ^m	27 ^h 43 ^m	10 ^h 45 ^m	17 ^h 1 ^m	0 ^h 10 ^m	4 ^h 57 ^m	6 ^h 37 ^m	14 ^h 43 ^m	14 ^h 10 ^m	26 ^h 7 ^m	3 ^h 48 ^m				
M15	5 34 24	23 ^h 0 ^m 34 ^s	1 ^h 27 ^m	8 ^h 4 ^m	6 ^h 18 ^m	28 ^h 28 ^m	10 ^h 57 ^m	17 ^h 2 ^m	0 ^h 13 ^m	4 ^h 55 ^m	6 ^h 36 ^m	14 ^h 42 ^m	14 ^h 7 ^m	26 ^h 14 ^m	3 ^h 46 ^m				
T 16	5 38 21	24 ^h 1 ^m 40 ^s	16 ^h 0 ^m	9 ^h 35 ^m	5 ^h 56 ^m	29 ^h 13 ^m	11 ^h 9 ^m	17 ^h 4 ^m	0 ^h 15 ^m	4 ^h 54 ^m	6 ^h 35 ^m	14 ^h 40 ^m	14 ^h 4 ^m	26 ^h 21 ^m	3 ^h 43 ^m				
W17	5 42 17	25 ^h 2 ^m 45 ^s	0 ^h 29 ^m	11 ^h 5 ^m	5 ^h 36 ^m	29 ^h 58 ^m	11 ^h 21 ^m	17 ^h 5 ^m	0 ^h 18 ^m	4 ^h 52 ^m	6 ^h 34 ^m	14 ^h 39 ^m	14 ^h 0 ^m	26 ^h 27 ^m	3 ^h 40 ^m				
T 18	5 46 14	26 ^h 3 ^m 51 ^s	14 ^h 48 ^m	12 ^h 35 ^m	5 ^h 18 ^m	0 ^h 43 ^m	11 ^h 33 ^m	17 ^h 6 ^m	0 ^h 21 ^m	4 ^h 50 ^m	6 ^h 33 ^m	14 ^h 39 ^m	13 ^h 57 ^m	26 ^h 34 ^m	3 ^h 37 ^m				
F 19	5 50 10	27 ^h 4 ^m 57 ^s	28 ^h 55 ^m	14 ^h 3 ^m	5 ^h 3 ^m	1 ^h 28 ^m	11 ^h 45 ^m	17 ^h 7 ^m	0 ^h 23 ^m	4 ^h 49 ^m	6 ^h 32 ^m	14 ^h D39	13 ^h 54 ^m	26 ^h 41 ^m	3 ^h 34 ^m				
S 20	5 54 7	28 ^h 6 ^m 03 ^s	12 ^h 49 ^m	15 ^h 30 ^m	4 ^h 50 ^m	2 ^h 13 ^m	11 ^h 57 ^m	17 ^h 8 ^m	0 ^h 26 ^m	4 ^h 47 ^m	6 ^h 31 ^m	14 ^h 39 ^m	13 ^h 51 ^m	26 ^h 48 ^m	3 ^h 31 ^m				
S 21	5 58 4	29 ^h 7 ^m 10 ^s	26 ^h 28 ^m	16 ^h 56 ^m	4 ^h 40 ^m	2 ^h 58 ^m	12 ^h 9 ^m	17 ^h 9 ^m	0 ^h 28 ^m	4 ^h 46 ^m	6 ^h 30 ^m	14 ^h 40 ^m	13 ^h 48 ^m	26 ^h 54 ^m	3 ^h 28 ^m				
M22	6 2 0	0 ^h 8 ^m 17 ^s	9 ^h 53 ^m	18 ^h 20 ^m	4 ^h 32 ^m	3 ^h 43 ^m	12 ^h 22 ^m	17 ^h 9 ^m	0 ^h 30 ^m	4 ^h 44 ^m	6 ^h 29 ^m	14 ^h 41 ^m	13 ^h 44 ^m	27 ^h 1 ^m	3 ^h 24 ^m				
T 23	6 5 57	1 ^h 9 ^m 24 ^s	23 ^h 4 ^m	19 ^h 43 ^m	4 ^h 27 ^m	4 ^h 28 ^m	12 ^h 34 ^m	17 ^h 10 ^m	0 ^h 33 ^m	4 ^h 43 ^m	6 ^h 28 ^m	14 ^h 42 ^m	13 ^h 41 ^m	27 ^h 8 ^m	3 ^h 21 ^m				
W24	6 9 53	2 ^h 10 ^m 31 ^s	6 ^h 11 ^m	21 ^h 3 ^m	4 ^h 24 ^m	5 ^h 12 ^m	12 ^h 47 ^m	17 ^h 10 ^m	0 ^h 35 ^m	4 ^h 41 ^m	6 ^h 26 ^m	14 ^h 43 ^m	13 ^h 38 ^m	27 ^h 14 ^m	3 ^h 18 ^m				
T 25	6 13 50	3 ^h 11 ^m 38 ^s	18 ^h 48 ^m	22 ^h 20 ^m	4 ^h D23	5 ^h 57 ^m	12 ^h 59 ^m	17 ^h 11 ^m	0 ^h 37 ^m	4 ^h 40 ^m	6 ^h 25 ^m	14 ^h R43	13 ^h 35 ^m	27 ^h 21 ^m	3 ^h 14 ^m				
F 26	6 17 46	4 ^h 12 ^m 46 ^s	1 ^h 23 ^m	23 ^h 34 ^m	4 ^h 25 ^m	6 ^h 42 ^m	13 ^h 12 ^m	17 ^h 11 ^m	0 ^h 39 ^m	4 ^h 39 ^m	6 ^h 24 ^m	14 ^h 43 ^m	13 ^h 32 ^m	27 ^h 28 ^m	3 ^h 11 ^m				
S 27	6 21 43	5 ^h 13 ^m 54 ^s	13 ^h 46 ^m	24 ^h 45 ^m	4 ^h 30 ^m	7 ^h 27 ^m	13 ^h 25 ^m	17 ^h 11 ^m	0 ^h 41 ^m	4 ^h 37 ^m	6 ^h 24 ^m	14 ^h 41 ^m	13 ^h 29 ^m	27 ^h 35 ^m	3 ^h 7 ^m				
S 28	6 25 39	6 ^h 15 ^m 02 ^s	25 ^h 59 ^m	25 ^h 51 ^m	4 ^h 37 ^m	8 ^h 12 ^m	13 ^h 37 ^m	17 ^h R11	0 ^h 44 ^m	4 ^h 36 ^m	6 ^h 23 ^m	14 ^h 38 ^m	13 ^h 25 ^m	27 ^h 41 ^m	3 ^h 3 ^m				
M29	6 29 36	7 ^h 16 ^m 10 ^s	8 ^h 2 ^m	26 ^h 52 ^m	4 ^h 46 ^m	8 ^h 57 ^m	13 ^h 50 ^m	17 ^h 11 ^m	0 ^h 46 ^m	4 ^h 34 ^m	6 ^h 22 ^m	14 ^h 34 ^m	13 ^h 22 ^m	27 ^h 48 ^m	3 ^h 0 ^m				
T 30	6 33 33	8 ^h 17 ^m 19 ^s	20 ^h 0 ^m	27 ^h 47 ^m	4 ^h 57 ^m	9 ^h 42 ^m	14 ^h 3 ^m	17 ^h 11 ^m	0 ^h 48 ^m	4 ^h 33 ^m	6 ^h 21 ^m	14 ^h 30 ^m	13 ^h 19 ^m	27 ^h 55 ^m	2 ^h 56 ^m				
W31	6 37 29	9 ^h 18 ^m 28 ^s	1 ^h 53 ^m	28 ^h 35 ^m	5 ^h 11 ^m	10 ^h 27 ^m	14 ^h 16 ^m	17 ^h 11 ^m	0 ^h 50 ^m	4 ^h 32 ^m	6 ^h 20 ^m	14 ^h 26 ^m	13 ^h 16 ^m	28 ^h 2 ^m	2 ^h 52 ^m				

Day	☉	☽	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒						
	decl	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat	decl	lat					
M 1	21s47	23n50	3n46	24s24	1s39	23s53	1s25	16s46	1s24	18s55	0s45	7n0	1n50	10s49	0n32	19n33	1s40	9n44	11s54	22n34	22n36	17n51	11n58	7s26
T 2	21s56	21n29	4s27	24s38	1s43	23s34	1s9	16s31	1s23	18s52	0s45	6s59	1s50	10s50	0s32	19s33	1s40	9s44	11s53	22s35	22s35	17s49	11s58	7s27
W 3	22s18	18s14	4s57	24s50	1s48	23s14	0s54	16s16	1s22	18s50	0s45	6s58	1s50	10s51	0s32	19s33	1s40	9s44	11s53	22s35	22s35	17s47	11s58	7s27
T 4	22s13	14s16	5s13	25s1	1s52	22s34	0s39	16s1	1s21	18s47	0s45	6s58	1s51	10s52	0s32	19s32	1s40	9s44	11s53	22s35	22s35	17s45	11s58	7s28
F 5	22s21	9s44	5s17	25s10	1s55	22s34	0s23	15s46	1s19	18s44	0s45	6s57	1s51	10s53	0s32	19s32	1s40	9s44	11s53	22s35	22s34	17s43	11s58	7s29
S 6	22s29	4s48	5s6	25s19	1s59	22s13	0s7	15s30	1s18	18s41	0s45	6s56	1s51	10s54	0s32	19s32	1s40	9s44	11s53	22s35	22s34	17s41	11s57	7s29
S 7	22s36	0s25	4s42	25s25	2s2	21s53	0n8	15s14	1s17	18s38	0s45	6s56	1s51	10s55	0s32	19s32	1s40	9s43	11s53	22s35	22s33	17s39	11s57	7s30
M 8	22s42	5s44	4s4	25s31	2s5	21s32	0s24	14s59	1s16	18s35	0s45	6s55	1s52	10s56	0s32	19s31	1s40	9s43						