

SWISS EPHEMERIS for the year 1903

JANUARY 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	6 37 53	9°24'15	2°19	20°340	17°319	5°2	18°20	27°347	22°332	2°R 7	18°R18	21°R38	21°10	6°319	15°320
F 2	6 41 49	10°25'26	14°18	22°17	18°34	5°26	18°33	27°54	22°36	2°5	18°II17	21°26	21° 7	6°26	15°26
S 3	6 45 46	11°26'36	26°21	23°54	19°50	5°50	18°46	28° 0	22°39	2° 4	18°16	21°15	21° 4	6°32	15°32
S 4	6 49 42	12°27'47	8°34	25°31	21° 5	6°13	18°59	28° 7	22°43	2° 2	18°15	21° 8	21° 1	6°39	15°38
M 5	6 53 39	13°28'57	20°57	27° 7	22°21	6°36	19°12	28°14	22°46	2° 0	18°14	21° 4	20°58	6°46	15°43
T 6	6 57 35	14°30'07	3°35	28°43	23°36	6°58	19°25	28°21	22°50	1°59	18°13	21° 2	20°55	6°53	15°49
W 7	7 1 32	15°31'16	16°33	0°18	24°51	7°21	19°38	28°28	22°53	1°57	18°12	21° 2	20°51	6°59	15°55
T 8	7 5 29	16°32'25	29°55	1°52	26° 7	7°43	19°51	28°35	22°57	1°55	18°11	21° 2	20°48	7° 6	16° 0
F 9	7 9 25	17°33'34	13°43	3°25	27°22	8° 4	20° 4	28°42	23° 0	1°54	18°10	21° 1	20°45	7°13	16° 6
S 10	7 13 22	18°34'42	28° 0	4°57	28°37	8°25	20°18	28°49	23° 3	1°52	18° 9	20°57	20°42	7°20	16°12
S 11	7 17 18	19°35'49	12°II43	6°26	29°53	8°46	20°31	28°57	23° 7	1°51	18° 8	20°51	20°39	7°26	16°18
M12	7 21 15	20°36'57	27°48	7°54	1°8	9° 7	20°44	29° 4	23°10	1°49	18° 7	20°42	20°35	7°33	16°23
T 13	7 25 11	21°38'03	13°6	9°20	2°23	9°27	20°58	29°11	23°13	1°47	18° 6	20°31	20°32	7°40	16°29
W14	7 29 8	22°39'09	28°26	10°42	3°39	9°47	21°11	29°18	23°17	1°46	18° 5	20°19	20°29	7°46	16°35
T 15	7 33 4	23°40'15	13°II37	12° 1	4°54	10° 7	21°25	29°25	23°20	1°44	18° 4	20° 8	20°26	7°53	16°40
F 16	7 37 1	24°41'20	28°27	13°15	6° 9	10°26	21°38	29°32	23°23	1°43	18° 3	19°59	20°23	8° 0	16°46
S 17	7 40 58	25°42'25	12°II51	14°25	7°25	10°44	21°52	29°39	23°27	1°41	18° 2	19°52	20°20	8° 7	16°52
S 18	7 44 54	26°43'30	26°44	15°29	8°40	11° 3	22° 6	29°46	23°30	1°40	18° 1	19°48	20°16	8°13	16°58
M19	7 48 51	27°44'35	10°II	16°26	9°55	11°21	22°30	29°53	23°33	1°38	18° 0	19°46	20°13	8°20	17° 3
T 20	7 52 47	28°45'39	23° 2	17°16	11°10	11°38	22°33	0°1	23°36	1°37	18° 0	19°46	20°10	8°27	17° 9
W21	7 56 44	29°46'42	5°III35	17°58	12°26	11°55	22°47	0° 8	23°39	1°35	17°59	19°46	20° 7	8°33	17°14
T 22	8 0 40	0°47'46	17°50	18°31	13°41	12°12	23° 1	0°15	23°42	1°34	17°58	19°45	20° 4	8°40	17°20
F 23	8 4 37	1°48'49	29°53	18°55	14°56	12°28	23°15	0°22	23°45	1°32	17°57	19°42	20° 1	8°47	17°26
S 24	8 8 33	2°49'51	11°II47	19° 7	16°11	12°44	23°29	0°29	23°48	1°31	17°56	19°36	19°57	8°54	17°31
S 25	8 12 30	3°50'53	23°38	19°R 9	17°26	12°59	23°43	0°36	23°51	1°30	17°55	19°27	19°54	9° 0	17°37
M26	8 16 27	4°51'54	5°28	18°59	18°42	13°14	23°57	0°43	23°54	1°28	17°55	19°15	19°51	9° 7	17°42
T 27	8 20 23	5°52'55	17°21	18°38	19°57	13°28	24°11	0°50	23°57	1°27	17°54	19° 2	19°48	9°14	17°48
W28	8 24 20	6°53'55	29°17	18° 5	21°12	13°42	24°25	0°58	24° 0	1°26	17°53	18°48	19°45	9°20	17°53
T 29	8 28 16	7°54'53	11°II18	17°22	22°27	13°55	24°39	1° 5	24° 3	1°24	17°53	18°34	19°41	9°27	17°59
F 30	8 32 13	8°55'51	23°25	16°30	23°42	14° 8	24°53	1°12	24° 6	1°23	17°52	18°21	19°38	9°34	18° 4
S 31	8 36 9	9°56'48	5°II40	15°29	24°57	14°II20	25°8	1°19	24°II 9	1°22	17°II51	18°II12	19°II35	9°II41	18°II10

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FEBRUARY 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	8 40 6	10°58'44	18°II 3	14°R22	26°II12	14°II32	25°II22	1°26	24°II12	1°R20	17°R51	18°R 5	19°II32	9°II47	18°II15
M 2	8 44 2	11°58'38	0°II36	13°II11	27°28	14°43	25°36	1°33	24°14	1°II19	17°II50	18°II 1	19°29	9°54	18°20
T 3	8 47 59	12°59'31	13°22	11°58	28°43	14°53	25°50	1°40	24°17	1°18	17°49	17°D59	19°26	10° 1	18°26
W 4	8 51 56	14° 0'23	26°22	10°44	29°58	15° 3	26° 5	1°47	24°20	1°17	17°49	17°59	19°22	10° 8	18°31
T 5	8 55 52	15° 1'13	9°31	9°33	1°13	15°13	26°19	1°54	24°23	1°16	17°48	18°R 0	19°19	10°14	18°36
F 6	8 59 49	16° 2'02	23°21	8°25	2°28	15°22	26°33	2° 1	24°25	1°15	17°48	18° 0	19°16	10°21	18°42
S 7	9 3 45	17° 2'49	7°II23	7°23	3°43	15°30	26°47	2° 8	24°28	1°13	17°47	17°58	19°13	10°28	18°47
S 8	9 7 42	18° 3'35	21°48	6°26	4°57	15°37	27° 2	2°15	24°30	1°12	17°47	17°54	19°10	10°34	18°52
M 9	9 11 38	19° 4'19	6°II32	5°37	6°12	15°44	27°16	2°22	24°33	1°11	17°46	17°47	19° 7	10°41	18°57
T 10	9 15 35	20° 5'02	21°30	4°56	7°27	15°51	27°31	2°29	24°35	1°10	17°46	17°39	19° 3	10°48	19° 2
W11	9 19 31	21° 5'43	6°II34	4°23	8°42	15°56	27°45	2°36	24°38	1° 9	17°45	17°30	19° 0	10°55	19° 7
T 12	9 23 28	22° 6'23	21°33	3°58	9°57	16° 1	27°59	2°43	24°40	1° 8	17°45	17°21	18°57	11° 1	19°12
F 13	9 27 25	23° 7'01	6°II19	3°41	11°12	16° 6	28°14	2°50	24°42	1° 8	17°44	17°14	18°54	11° 8	19°17
S 14	9 31 21	24° 7'38	20°43	3°32	12°26	16° 9	28°28	2°56	24°45	1° 7	17°44	17° 8	18°51	11°15	19°22
S 15	9 35 18	25° 8'14	4°II40	3°D30	13°41	16°12	28°43	3° 3	24°47	1° 6	17°44	17° 5	18°47	11°21	19°27
M16	9 39 14	26° 8'48	18°10	3°35	14°56	16°15	28°57	3°10	24°49	1° 5	17°43	17°D 5	18°44	11°28	19°32
T 17	9 43 11	27° 9'21	1°II13	3°47	16°11	16°16	29°12	3°17	24°51	1° 4	17°43	17° 5	18°41	11°35	19°37
W18	9 47 7	28° 9'53	13°53	4° 4	17°25	16°17	29°26	3°23	24°53	1° 3	17°43	17° 7	18°38	11°42	19°42
T 19	9 51 4	29°10'24	26°13	4°28	18°40	16°R17	29°40	3°30	24°55	1° 3	17°42	17°R 8	18°35	11°48	19°47
F 20	9 55 0	0°II10'53	8°II18	4°57	19°55	16°17	29°55	3°37	24°57	1° 2	17°42	17° 7	18°32	11°55	19°51
S 21	9 58 57	1°11'21	20°14	5°30	21° 9	16°15	0°II 9	3°43	24°59	1° 1	17°42	17° 5	18°28	12° 2	19°56
S 22	10 2 54	2°11'48	2°II 5	6° 9	22°24	16°13	0°24	3°50	25° 1	1° 1	17°42	17° 1	18°25	12° 9	20° 1
M23	10 6 50	3°12'13	13°56	6°51	23°38	16°10	0°38	3°57	25° 3	1° 0	17°41	16°55	18°22	12°15	20° 5
T 24	10 10 47	4°12'37	25°51	7°37	24°53	16° 6	0°53	4° 3	25° 5	0°59	17°41	16°47	18°19	12°22	20°10
W25	10 14 43	5°12'59	7°II51	8°27	26° 7	16° 2	1° 7	4°10	25° 7	0°59	17°41	16°39	18°16	12°29	20°14
T 26	10 18 40	6°13'20	20° 0	9°20	27°22	15°57	1°22	4°16	25° 9	0°58	17°41	16°31	18°13	12°35	20°19
F 27	10 22 36	7°13'39	2°II19	10°16	28°36	15°51	1°36	4°22	25°10	0°58	17°41	16°24	18° 9	12°42	20°23
S 28	10 26 33	8°13'56	14°II48	11°II15	29°II51	15°II44	1°II50	4°II29	25°II12	0°II57	17°II41	16°II19	18°II 6	12°II49	20°II28

Delta T = 1.31 sec.

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SWISS EPHEMERIS for the year 1903

MARCH 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	10 30 29	9°14'12	27°12'28	12°17'17	1°15'5	15°R36	2°15'5	4°35'35	25°14'14	0°R57	17°R41	16°R15	18°13'3	12°35'56	20°32'32
M 2	10 34 26	10°14'26	10°14'26	13°21'21	2°19'19	15°28'28	2°19'19	4°41'41	25°15'15	0°56'56	17°11'41	16°D13	18°0'0	13°2'2	20°36'36
T 3	10 38 23	11°14'37	23°23'23	14°28'28	3°34'34	15°19'19	2°34'34	4°48'48	25°17'17	0°56'56	17°D41	16°D13	17°57'57	13°9'9	20°40'40
W 4	10 42 19	12°14'47	6°40'40	15°36'36	4°48'48	15°9'9	2°48'48	4°54'54	25°18'18	0°56'56	17°41'41	16°15'15	17°53'53	13°16'16	20°44'44
T 5	10 46 16	13°14'55	20°9'9	16°47'47	6°2'2	14°58'58	3°2'2	5°0'0	25°20'20	0°55'55	17°41'41	16°16'16	17°50'50	13°22'22	20°48'48
F 6	10 50 12	14°15'00	3°11'53	18°0'0	7°16'16	14°47'47	3°17'17	5°6'6	25°21'21	0°55'55	17°41'41	16°18'18	17°47'47	13°29'29	20°53'53
S 7	10 54 9	15°15'03	17°51'51	19°14'14	8°30'30	14°34'34	3°31'31	5°12'12	25°22'22	0°55'55	17°41'41	16°R18	17°44'44	13°36'36	20°56'56
S 8	10 58 5	16°15'05	2°3'3	20°30'30	9°44'44	14°21'21	3°45'45	5°18'18	25°24'24	0°55'55	17°41'41	16°17'17	17°41'41	13°43'43	21°0'0
M 9	11 2 2	17°15'04	16°27'27	21°48'48	10°58'58	14°8'8	3°59'59	5°24'24	25°25'25	0°55'55	17°41'41	16°15'15	17°38'38	13°49'49	21°4'4
T 10	11 5 58	18°15'01	0°59'59	23°8'8	12°12'12	13°53'53	4°14'14	5°30'30	25°26'26	0°55'55	17°41'41	16°11'11	17°34'34	13°56'56	21°8'8
W 11	11 9 55	19°14'55	15°35'35	24°29'29	13°26'26	13°38'38	4°28'28	5°36'36	25°27'27	0°54'54	17°41'41	16°7'7	17°31'31	14°3'3	21°12'12
T 12	11 13 51	20°14'48	0°11'11	25°51'51	14°40'40	13°23'23	4°42'42	5°41'41	25°28'28	0°54'54	17°41'41	16°3'3	17°28'28	14°10'10	21°15'15
F 13	11 17 48	21°14'38	14°31'31	27°15'15	15°54'54	13°6'6	4°56'56	5°47'47	25°29'29	0°D54	17°42'42	16°0'0	17°25'25	14°16'16	21°19'19
S 14	11 21 45	22°14'26	28°39'39	28°41'41	17°8'8	12°49'49	5°10'10	5°53'53	25°30'30	0°54'54	17°42'42	15°58'58	17°22'22	14°23'23	21°23'23
S 15	11 25 41	23°14'13	12°28'28	0°11'11	18°22'22	12°31'31	5°25'25	5°58'58	25°31'31	0°54'54	17°42'42	15°D57	17°18'18	14°30'30	21°26'26
M 16	11 29 38	24°13'57	25°55'55	1°36'36	19°35'35	12°13'13	5°39'39	6°4'4	25°32'32	0°54'54	17°42'42	15°58'58	17°15'15	14°36'36	21°29'29
T 17	11 33 34	25°13'40	8°11'59	3°6'6	20°49'49	11°54'54	5°53'53	6°9'9	25°33'33	0°55'55	17°43'43	15°59'59	17°12'12	14°43'43	21°33'33
W 18	11 37 31	26°13'21	2°41'41	4°36'36	22°3'3	11°35'35	6°7'7	6°15'15	25°33'33	0°55'55	17°43'43	16°0'0	17°9'9	14°50'50	21°36'36
T 19	11 41 27	27°13'00	4°6'6	6°9'9	23°16'16	11°15'15	6°21'21	6°20'20	25°34'34	0°55'55	17°43'43	16°2'2	17°6'6	14°57'57	21°39'39
F 20	11 45 24	28°12'38	16°15'15	7°42'42	24°30'30	10°54'54	6°35'35	6°26'26	25°35'35	0°55'55	17°44'44	16°3'3	17°3'3	15°3'3	21°43'43
S 21	11 49 20	29°12'14	28°14'14	9°17'17	25°43'43	10°33'33	6°49'49	6°31'31	25°35'35	0°55'55	17°44'44	16°R3	16°59'59	15°10'10	21°46'46
S 22	11 53 17	0°11'48	10°3'3	10°53'53	26°57'57	10°12'12	7°2'2	6°36'36	25°36'36	0°56'56	17°44'44	16°3'3	16°56'56	15°17'17	21°49'49
M 23	11 57 14	1°11'20	22°0'0	12°31'31	28°10'10	9°50'50	7°16'16	6°41'41	25°36'36	0°56'56	17°45'45	16°2'2	16°53'53	15°24'24	21°52'52
T 24	12 1 10	2°10'50	3°36'36	14°9'9	29°24'24	9°28'28	7°30'30	6°46'46	25°37'37	0°56'56	17°45'45	16°0'0	16°50'50	15°30'30	21°55'55
W 25	12 5 7	3°10'19	16°0'0	15°49'49	0°37'37	9°6'6	7°44'44	6°51'51	25°37'37	0°57'57	17°46'46	15°58'58	16°47'47	15°37'37	21°57'57
T 26	12 9 3	4°9'46	28°15'15	17°31'31	1°50'50	8°43'43	7°58'58	6°56'56	25°37'37	0°57'57	17°46'46	15°57'57	16°44'44	15°44'44	22°0'0
F 27	12 13 0	5°9'11	10°14'14	19°13'13	3°4'4	8°20'20	8°11'11	7°1'1	25°38'38	0°58'58	17°47'47	15°55'55	16°40'40	15°50'50	22°3'3
S 28	12 16 56	6°8'34	23°26'26	20°58'58	4°17'17	7°57'57	8°25'25	7°6'6	25°38'38	0°58'58	17°47'47	15°54'54	16°37'37	15°57'57	22°5'5
S 29	12 20 53	7°7'54	6°12'12	22°43'43	5°30'30	7°34'34	8°38'38	7°10'10	25°38'38	0°59'59	17°48'48	15°53'53	16°34'34	16°4'4	22°8'8
M 30	12 24 49	8°7'13	19°39'39	24°30'30	6°43'43	7°10'10	8°52'52	7°15'15	25°38'38	0°59'59	17°48'48	15°D53	16°31'31	16°11'11	22°10'10
T 31	12 28 46	9°16'30	3°8'8	26°18'18	7°56'56	6°47'47	9°11'11	7°20'20	25°38'38	1°0'0	17°49'49	15°D54	16°28'28	16°17'17	22°13'13

Delta T = 1.42 sec.

APRIL 1903

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	12 32 43	10°15'45	16°48'49	28°11'7	9°8'9	6°R24	9°11'19	7°22'24	25°R38	1°0'0	17°11'50	15°D54	16°D24	16°32'24	22°15'15
T 2	12 36 39	11°4'57	0°11'41	29°5'58	10°22'22	6°1'1	9°32'32	7°29'29	25°R38	1°1'1	17°50'50	15°55'55	16°21'21	16°31'31	22°17'17
F 3	12 40 36	12°4'07	14°42'42	1°15'50	11°35'35	5°37'37	9°46'46	7°33'33	25°38'38	1°2'2	17°51'51	15°55'55	16°18'18	16°37'37	22°20'20
S 4	12 44 32	13°3'15	28°49'49	3°44'44	12°47'47	5°14'14	9°59'59	7°37'37	25°38'38	1°2'2	17°52'52	15°55'55	16°15'15	16°44'44	22°22'22
S 5	12 48 29	14°2'21	13°1'1	5°39'39	14°0'0	4°52'52	10°12'12	7°41'41	25°38'38	1°3'3	17°52'52	15°R55	16°12'12	16°51'51	22°24'24
M 6	12 52 25	15°1'24	27°15'15	7°35'35	15°13'13	4°29'29	10°25'25	7°45'45	25°38'38	1°4'4	17°53'53	15°55'55	16°9'9	16°58'58	22°26'26
T 7	12 56 22	16°0'25	11°12'28	9°33'33	16°26'26	4°7'7	10°38'38	7°49'49	25°37'37	1°5'5	17°54'54	15°D55	16°5'5	17°4'4	22°28'28
W 8	13 0 18	16°59'23	25°37'37	11°32'32	17°38'38	3°45'45	10°51'51	7°53'53	25°37'37	1°6'6	17°54'54	15°55'55	16°2'2	17°11'11	22°29'29
T 9	13 4 15	17°58'19	9°11'41	13°33'33	18°51'51	3°23'23	11°4'4	7°57'57	25°37'37	1°6'6	17°55'55	15°55'55	15°59'59	17°18'18	22°31'31
F 10	13 8 11	18°57'13	23°35'35	15°34'34	20°3'3	3°2'2	11°17'17	8°1'1	25°36'36	1°7'7	17°56'56	15°56'56	15°56'56	17°25'25	22°33'33
S 11	13 12 8	19°56'05	7°18'18	17°37'37	21°15'15	2°41'41	11°30'30	8°5'5	25°36'36	1°8'8	17°57'57	15°56'56	15°53'53	17°31'31	22°34'34
S 12	13 16 5	20°54'54	20°46'46	19°41'41	22°28'28	2°21'21	11°43'43	8°8'8	25°35'35	1°9'9	17°58'58	15°R56	15°49'49	17°38'38	22°36'36
M13	13 20 1	21°53'42	3°11'57	21°46'46	23°40'40	2°1'1	11°56'56	8°12'12	25°34'34	1°10'10	17°59'59	15°56'56	15°46'46	17°45'45	22°37'37
T 14	13 23 58	22°52'28	16°52'52	23°51'51	24°52'52	1°41'41	12°8'8	8°15'15	25°34'34	1°11'11	17°59'59	15°55'55	15°43'43	17°51'51	22°39'39
W15	13 27 54	23°51'12	29°31'31	25°58'58	26°4'4	1°23'23	12°21'21	8°19'19	25°33'33	1°12'12	18°0'0	15°54'54	15°40'40	17°58'58	22°40'40
T 16	13 31 51	24°49'54	11°15'54	28°4'4	27°16'16	1°4'4	12°33'33	8°22'22	25°32'32	1°13'13	18°1'1	15°53'53	15°37'37	18°5'5	22°41'41
F 17	13 35 47	25°48'34	24°4'4	0°11'11	28°28'28	0°47'47	12°46'46	8°25'25	25°32'32	1°15'15	18°2'2	15°52'52	15°34'34	18°12'12	22°42'42
S 18	13 39 44	26°47'13	6°3'5	2°18'18	29°40'40	0°30'30	12°58'58	8°28'28	25°31'31	1°16'16	18°3'3	15°51'51	15°30'30	18°18'18	22°43'43
S 19	13 43 40	27°45'50	17°59'59	4°25'25	0°11'52	0°14'14	13°11'11	8°31'31	25°30'30	1°17'17	18°4'4	15°50'50	15°27'27	18°25'25	22°44'44
M20	13 47 37	28°44'25	29°53'53	6°31'31	2°4'4	29°15'58	13°23'23	8°34'34	25°29'29	1°18'18	18°5'5	15°D50	15°24'24	18°32'32	22°45'45
T 21	13 51 34	29°42'59	11°11'59	8°36'36	3°15'15	29°43'43	13°35'35	8°37'37	25°28'28	1°19'19	18°6'6	15°50'50	15°21'21	18°38'38	22°46'46
W22	13 55 30	0°41'31	23°53'53	10°40'40	4°27'27	29°29'29	13°47'47	8°40'40	25°27'27	1°21'21	18°7'7	15°51'51	15°18'18	18°45'45	22°47'47
T 23	13 59 27	1°40'01	6°11'10	12°42'42	5°38'38	29°15'15	13°59'59	8°43'43	25°26'26	1°22'22	18°8'8	15°52'52	15°15'15	18°52'52	22°47'47
F 24	14 3 23	2°38'29	18°42'42	14°43'43	6°50'50	29°3'3	14°11'11	8°45'45	25°25'25	1°23'23	18°9'9	15°54'54	15°11'11	18°59'59	22°48'48
S 25	14 7 20	3°36'56	1°16'34	16°41'41	8°1'1	28°51'51	14°23'23	8°48'48	25°24'24	1°25'25	18°10'10	15°55'55	15°8'8	19°5'5	22°48'48
S 26	14 11 16	4°35'21	14°46'46	18°37'37	9°13'13	28°39'39	14°34'34	8°50'50	25°22'22	1°26'26	18°11'11	15°R55	15°5'5	19°12'12	22°49'49
M27	14 15 13	5°33'45	28°20'20	20°30'30	10°24'24	28°29'29	14°46'46	8°53'53	25°21'21	1°27'27	18°12'12	15°55'55	15°2'2	19°19'19	22°49'49
T 28	14 19 9	6°32'07	12°12'12	22°20'20	11°35'35	28°19'19	14°58'58	8°55'55	25°20'20	1°29'29	18°13'13	15°53'53	14°59'59	19°26'26	22°49'49
W29	14 23 6	7°30'26	26°22'22	24°7'7	12°46'46	28°11'11	15°9'9	8°57'57	25°18'18	1°30'30	18°14'14	15°51'51	14°55'55	19°32'32	22°49'49
T 30	14 27 3	8°28'44	10°11'42	25°15'51	13°11'57	28°11'3	15°11'21	8°55'59	25°17'17	1°32'32	18°15'15	15°D48	14°52'52	19°33'33	22°49'49

SWISS EPHEMERIS for the year 1903

MAY 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	14 30 59	9♂27'01	25♂ 9	27♂31	15♂ 8	27°R55	15♂32	9♂ 1	25°R16	1♂33	18♂16	15°R45	14♂49	19♂46	22°R49
S 2	14 34 56	10°25'15	9♂37	29° 7	16°19	27°R49	15°43	9° 3	25°R14	1°35	18°18	15°R42	14°46	19°52	22°R49
S 3	14 38 52	11°23'27	24° 1	0♂40	17°30	27°43	15°54	9° 4	25°13	1°36	18°19	15°40	14°43	19°59	22°49
M 4	14 42 49	12°21'37	8♂17	2° 8	18°41	27°39	16° 5	9° 6	25°11	1°38	18°20	15°D39	14°40	20° 6	22°49
T 5	14 46 45	13°19'45	22°22	3°33	19°51	27°35	16°16	9° 8	25°10	1°39	18°21	15°39	14°36	20°13	22°49
W 6	14 50 42	14°17'51	6♂16	4°53	21° 2	27°31	16°27	9° 9	25° 8	1°41	18°22	15°40	14°33	20°19	22°48
T 7	14 54 38	15°15'55	19°57	6° 9	22°12	27°29	16°37	9°10	25° 6	1°43	18°23	15°42	14°30	20°26	22°48
F 8	14 58 35	16°13'57	3♂26	7°21	23°22	27°27	16°48	9°12	25° 5	1°44	18°25	15°43	14°27	20°33	22°47
S 9	15 2 32	17°11'57	16°42	8°28	24°33	27°26	16°59	9°13	25° 3	1°46	18°26	15°R44	14°24	20°39	22°47
S 10	15 6 28	18° 9'55	29°46	9°31	25°43	27°D26	17° 9	9°14	25° 1	1°48	18°27	15°43	14°21	20°46	22°46
M 11	15 10 25	19° 7'52	12♂38	10°30	26°53	27°27	17°19	9°15	24°59	1°49	18°28	15°40	14°17	20°53	22°45
T 12	15 14 21	20° 5'47	25°17	11°24	28° 3	27°28	17°29	9°16	24°57	1°51	18°29	15°36	14°14	21° 0	22°44
W 13	15 18 18	21° 3'41	7♂45	12°13	29°12	27°30	17°39	9°17	24°56	1°53	18°31	15°31	14°11	21° 6	22°43
T 14	15 22 14	22° 1'33	20° 1	12°58	0♂22	27°33	17°49	9°17	24°54	1°55	18°32	15°24	14° 8	21°13	22°42
F 15	15 26 11	22°59'24	2♂ 8	13°38	1°32	27°37	17°59	9°18	24°52	1°57	18°33	15°18	14° 5	21°20	22°41
S 16	15 30 7	23°57'14	14° 7	14°14	2°41	27°41	18° 9	9°18	24°50	1°58	18°35	15°12	14° 1	21°27	22°40
S 17	15 34 4	24°55'02	26° 0	14°44	3°51	27°46	18°18	9°19	24°48	2° 0	18°36	15° 7	13°58	21°33	22°39
M 18	15 38 1	25°52'49	7♂53	15°10	5° 0	27°52	18°28	9°19	24°46	2° 2	18°37	15° 3	13°55	21°40	22°38
T 19	15 41 57	26°50'35	19°48	15°31	6° 9	27°58	18°37	9°19	24°44	2° 4	18°38	15° 1	13°52	21°47	22°36
W 20	15 45 54	27°48'20	1♂50	15°47	7°18	28° 5	18°46	9°19	24°42	2° 6	18°40	15°D 1	13°49	21°53	22°35
T 21	15 49 50	28°46'04	14° 5	15°58	8°27	28°13	18°56	9°R19	24°40	2° 8	18°41	15° 2	13°46	22° 0	22°33
F 22	15 53 47	29°43'46	26°37	16° 4	9°36	28°21	19° 5	9°19	24°37	2°10	18°42	15° 4	13°42	22° 7	22°32
S 23	15 57 43	0♂41'28	9♂31	16°R 5	10°45	28°30	19°13	9°19	24°35	2°12	18°44	15°R 5	13°39	22°14	22°30
S 24	16 1 40	1°39'08	22°48	16° 2	11°53	28°40	19°22	9°19	24°33	2°14	18°45	15° 4	13°36	22°20	22°29
M 25	16 5 36	2°36'48	6♂32	15°55	13° 2	28°50	19°31	9°18	24°31	2°16	18°46	15° 2	13°33	22°27	22°27
T 26	16 9 33	3°34'26	20°41	15°43	14°10	29° 1	19°39	9°18	24°29	2°18	18°48	14°58	13°30	22°34	22°25
W 27	16 13 30	4°32'03	5♂12	15°27	15°18	29°12	19°47	9°17	24°26	2°20	18°49	14°53	13°26	22°40	22°23
T 28	16 17 26	5°29'40	19°58	15° 7	16°26	29°24	19°56	9°17	24°24	2°22	18°51	14°45	13°23	22°47	22°21
F 29	16 21 23	6°27'15	4♂52	14°44	17°34	29°37	20° 4	9°16	24°22	2°24	18°52	14°37	13°20	22°54	22°19
S 30	16 25 19	7°24'48	19°44	14°18	18°42	29°50	20°12	9°15	24°20	2°26	18°53	14°30	13°17	23° 1	22°17
S 31	16 29 16	8♂22'21	4♂27	13♂49	19♂50	0♂ 4	20♂19	9♂14	24♂17	2♂28	18♂55	14♂24	13♂14	23♂ 7	22♂15

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	16 33 12	9♂19'52	18♂55	13°R19	20♂57	0♂18	20♂27	9°R13	24°R15	2♂30	18♂56	14°R21	13♂11	23♂14	22°R13
T 2	16 37 9	10°17'21	3♂ 4	12♂46	22° 5	0°33	20°35	9♂12	24♂13	2°32	18°57	14♂19	13° 7	23°21	22°R10
W 3	16 41 5	11°14'49	16°53	12°13	23°12	0°48	20°42	9°11	24°10	2°34	18°59	14°D19	13° 4	23°28	22° 8
T 4	16 45 2	12°12'16	0♂23	11°40	24°19	1° 4	20°49	9° 9	24° 8	2°36	19° 0	14°19	13° 1	23°34	22° 5
F 5	16 48 59	13° 9'42	13°36	11° 6	25°26	1°21	20°56	9° 8	24° 5	2°38	19° 2	14°R20	12°58	23°41	22° 3
S 6	16 52 55	14° 7'06	26°33	10°34	26°32	1°38	21° 3	9° 6	24° 3	2°40	19° 3	14°19	12°55	23°48	22° 0
S 7	16 56 52	15° 4'30	9♂17	10° 2	27°39	1°55	21°10	9° 5	24° 1	2°43	19° 4	14°17	12°52	23°54	21°58
M 8	17 0 48	16° 1'52	21°50	9°33	28°45	2°13	21°16	9° 3	23°58	2°45	19° 6	14°11	12°48	24° 1	21°55
T 9	17 4 45	16°59'14	4♂14	9° 6	29°51	2°31	21°23	9° 1	23°56	2°47	19° 7	14° 3	12°45	24° 8	21°53
W 10	17 8 41	17°56'35	16°29	8°41	0♂57	2°50	21°29	8°59	23°53	2°49	19° 9	13°53	12°42	24°15	21°50
T 11	17 12 38	18°53'54	28°36	8°20	2° 3	3° 9	21°35	8°57	23°51	2°51	19°10	13°42	12°39	24°21	21°47
F 12	17 16 34	19°51'14	10♂36	8° 3	3° 9	3°29	21°41	8°55	23°48	2°53	19°11	13°30	12°36	24°28	21°44
S 13	17 20 31	20°48'32	22°32	7°49	4°14	3°49	21°47	8°53	23°46	2°56	19°13	13°19	12°32	24°35	21°41
S 14	17 24 28	21°45'50	4♂24	7°39	5°19	4° 9	21°52	8°51	23°44	2°58	19°14	13° 9	12°29	24°41	21°39
M 15	17 28 24	22°43'08	16°15	7°34	6°24	4°30	21°58	8°49	23°41	3° 0	19°16	13° 1	12°26	24°48	21°36
T 16	17 32 21	23°40'25	28° 9	7°D33	7°29	4°51	22° 3	8°46	23°39	3° 2	19°17	12°56	12°23	24°55	21°33
W 17	17 36 17	24°37'41	10♂10	7°36	8°34	5°13	22° 8	8°44	23°36	3° 4	19°18	12°53	12°20	25° 2	21°29
T 18	17 40 14	25°34'58	22°23	7°44	9°38	5°35	22°13	8°41	23°34	3° 7	19°20	12°D52	12°17	25° 8	21°26
F 19	17 44 10	26°32'14	4♂52	7°57	10°42	5°57	22°18	8°38	23°31	3° 9	19°21	12°52	12°13	25°15	21°23
S 20	17 48 7	27°29'30	17°42	8°14	11°46	6°20	22°23	8°36	23°29	3°11	19°23	12°R52	12°10	25°22	21°20
S 21	17 52 3	28°26'46	0♂58	8°36	12°50	6°43	22°27	8°33	23°26	3°13	19°24	12°51	12° 7	25°29	21°17
M 22	17 56 0	29°24'01	14°43	9° 3	13°53	7° 7	22°31	8°30	23°24	3°16	19°25	12°48	12° 4	25°35	21°14
T 23	17 59 57	0♂21'17	28°56	9°34	14°56	7°31	22°36	8°27	23°22	3°18	19°27	12°42	12° 1	25°42	21°10
W 24	18 3 53	1°18'32	13♂36	10°10	15°59	7°55	22°39	8°24	23°19	3°20	19°28	12°34	11°58	25°49	21° 7
T 25	18 7 50	2°15'47	28°36	10°50	17° 2	8°20	22°43	8°21	23°17	3°22	19°29	12°24	11°54	25°55	21° 4
F 26	18 11 46	3°13'02	13♂48	11°34	18° 4	8°45	22°47	8°18	23°14	3°25	19°31	12°13	11°51	26° 2	21° 0
S 27	18 15 43	4°10'16	29° 0	12°23	19° 7	9°10	22°50	8°15	23°12	3°27	19°32	12° 3	11°48	26° 9	20°57
S 28	18 19 39	5° 7'30	14♂ 2	13°16	20° 8	9°36	22°53	8°11	23°10	3°29	19°34	11°55	11°45	26°16	20°53
M 29	18 23 36	6° 4'44	28°45	14°14	21°10	10° 2	22°56	8° 8	23° 7	3°31	19°35	11°49	11°42	26°22	20°50
T 30	18 27 32	7♂ 1'57	13♂ 5	15♂15	22♂11	10♂28	22♂59	8♂ 5	23♂ 5	3♂33	19♂36	11♂45	11♂38	26♂29	20♂47

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SWISS EPHEMERIS for the year 1903

JULY 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	18 31 29	7 ⁵⁵ 09'09	26 ¹⁷ 59	16 ¹¹ 20	23 ⁰¹ 12	10 ⁵⁴ 54	23 ¹⁸ 2	8 ⁰ R 1	23 ⁰ R 2	3 ³⁶ 36	19 ¹¹ 38	11 ⁰ R44	11 ⁰ 35	26 ³⁶ 36	20 ⁰ R43
T 2	18 35 26	8 ⁵⁶ 21	10 ⁵⁴ 28	17 ³⁰ 30	24 ¹³ 13	11 ²¹ 23	23 ⁰ 4	7 ⁵⁵ 57	23 ⁰ 0	3 ³⁸ 38	19 ³⁹ 39	11 ⁰ 44	11 ⁰ 32	26 ⁴² 42	20 ⁰ 40
F 3	18 39 22	9 ⁵³ 33	23 ⁰ 35	18 ⁴³ 18	25 ¹³ 13	11 ⁴⁸ 23	23 ⁰ 6	7 ⁵⁴ 54	22 ⁵⁸ 58	3 ⁴⁰ 40	19 ⁴⁰ 40	11 ⁰ 43	11 ⁰ 29	26 ⁴⁹ 49	20 ⁰ 36
S 4	18 43 19	10 ⁵⁰ 45	6 ¹¹ 23	20 ⁰ 1	26 ¹³ 13	12 ¹⁶ 12	23 ⁰ 8	7 ⁵⁰ 50	22 ⁵⁵ 55	3 ⁴² 42	19 ⁴² 42	11 ⁰ 42	11 ⁰ 26	26 ⁵⁶ 56	20 ⁰ 32
S 5	18 47 15	11 ⁴⁷ 56	18 ⁵⁶ 56	21 ²² 22	27 ¹² 12	12 ⁴⁴ 44	23 ¹⁰ 10	7 ⁴⁶ 46	22 ⁵³ 53	3 ⁴⁵ 45	19 ⁴³ 43	11 ⁰ 38	11 ⁰ 23	27 ⁰ 3	20 ⁰ 29
M 6	18 51 12	12 ⁴⁵ 07	1 ¹⁷ 16	22 ⁴⁷ 47	28 ¹¹ 11	13 ¹² 12	23 ¹² 12	7 ⁴³ 43	22 ⁵¹ 51	3 ⁴⁷ 47	19 ⁴⁴ 44	11 ⁰ 32	11 ⁰ 19	27 ⁰ 9	20 ⁰ 25
T 7	18 55 8	13 ⁴² 18	13 ²⁷ 27	24 ¹⁶ 16	29 ¹⁰ 10	13 ⁴⁰ 40	23 ¹³ 13	7 ³⁹ 39	22 ⁴⁹ 49	3 ⁴⁹ 49	19 ⁴⁶ 46	11 ⁰ 23	11 ⁰ 16	27 ⁰ 16	20 ⁰ 22
W 8	18 59 5	14 ³⁹ 29	25 ³² 32	25 ⁴⁸ 48	0 ¹⁷ 8	14 ⁰ 8	23 ¹⁵ 15	7 ³⁵ 35	22 ⁴⁶ 46	3 ⁵¹ 51	19 ⁴⁷ 47	11 ⁰ 11	11 ⁰ 13	27 ⁰ 23	20 ⁰ 18
T 9	19 3 1	15 ³⁶ 40	7 ³³ 31	27 ²⁴ 24	1 ⁰ 6	14 ³⁷ 37	23 ¹⁶ 16	7 ³¹ 31	22 ⁴⁴ 44	3 ⁵³ 53	19 ⁴⁸ 48	10 ⁵⁸ 58	11 ⁰ 10	27 ⁰ 29	20 ⁰ 15
F 10	19 6 58	16 ³³ 51	19 ²⁶ 26	29 ⁰ 4	2 ⁰ 4	15 ⁰ 6	23 ¹⁷ 17	7 ²⁷ 27	22 ⁴² 42	3 ⁵⁶ 56	19 ⁴⁹ 49	10 ⁴⁵ 45	11 ⁰ 7	27 ⁰ 36	20 ⁰ 11
S 11	19 10 55	17 ³¹ 02	1 ¹⁸ 18	0 ⁴⁷ 47	3 ⁰ 1	15 ³⁶ 36	23 ¹⁷ 17	7 ²³ 23	22 ⁴⁰ 40	3 ⁵⁸ 58	19 ⁵¹ 51	10 ³¹ 31	11 ⁰ 4	27 ⁰ 43	20 ⁰ 7
S 12	19 14 51	18 ²⁸ 14	13 ¹⁰ 10	2 ³⁴ 34	3 ⁵⁷ 57	16 ⁰ 5	23 ¹⁸ 18	7 ¹⁹ 19	22 ³⁸ 38	4 ⁰ 0	19 ⁵² 52	10 ²⁰ 20	11 ⁰ 0	27 ⁰ 50	20 ⁰ 4
M13	19 18 48	19 ²⁵ 26	25 ⁰ 3	4 ²³ 23	4 ⁵³ 53	16 ³⁵ 35	23 ¹⁸ 18	7 ¹⁵ 15	22 ³⁶ 36	4 ² 2	19 ⁵³ 53	10 ¹⁰ 10	10 ⁵⁷ 57	27 ⁰ 56	20 ⁰ 0
T 14	19 22 44	20 ²² 38	6 ¹⁵ 58	6 ¹⁶ 58	5 ⁴⁹ 49	17 ⁰ 5	23 ⁰ R18	7 ¹¹ 11	22 ³⁴ 34	4 ⁰ 4	19 ⁵⁴ 54	10 ⁰ 4	10 ⁵⁴ 54	28 ⁰ 3	19 ⁵⁶ 56
W15	19 26 41	21 ¹⁹ 51	19 ⁰ 1	8 ¹¹ 11	6 ⁴⁴ 44	17 ³⁵ 35	23 ¹⁸ 18	7 ⁰ 7	22 ³² 32	4 ⁰ 6	19 ⁵⁶ 56	10 ⁰ 0	10 ⁵¹ 51	28 ⁰ 10	19 ⁵³ 53
T 16	19 30 37	22 ¹⁷ 04	1 ¹⁷ 14	10 ⁰ 9	7 ³⁹ 39	18 ⁰ 6	23 ¹⁸ 18	7 ⁰ 2	22 ³⁰ 30	4 ⁰ 9	19 ⁵⁷ 57	9 ⁵⁹ 59	10 ⁴⁸ 48	28 ⁰ 17	19 ⁴⁹ 49
F 17	19 34 34	23 ¹⁴ 18	13 ⁴² 42	12 ⁰ 9	8 ³³ 33	18 ³⁷ 37	23 ¹⁸ 18	6 ⁵⁸ 58	22 ²⁸ 28	4 ¹¹ 11	19 ⁵⁸ 58	9 ⁰ D58	10 ⁴⁴ 44	28 ⁰ 23	19 ⁴⁶ 46
S 18	19 38 30	24 ¹¹ 32	26 ²⁹ 29	14 ¹¹ 11	9 ²⁶ 26	19 ⁰ 8	23 ¹⁷ 17	6 ⁵⁴ 54	22 ²⁶ 26	4 ¹³ 13	19 ⁵⁹ 59	9 ⁰ R58	10 ⁴¹ 41	28 ⁰ 30	19 ⁴² 42
S 19	19 42 27	25 ⁰ 8'48	9 ¹⁸ 41	16 ¹⁵ 15	10 ¹⁹ 19	19 ³⁹ 39	23 ¹⁶ 16	6 ⁵⁰ 50	22 ²⁴ 24	4 ¹⁵ 15	20 ⁰ 0	9 ⁵⁸ 58	10 ³⁸ 38	28 ⁰ 37	19 ³⁸ 38
M20	19 46 24	26 ⁰ 6'04	23 ²⁰ 20	18 ²⁰ 20	11 ¹² 12	20 ¹⁰ 10	23 ¹⁵ 15	6 ⁴⁵ 45	22 ²² 22	4 ¹⁷ 17	20 ⁰ 2	9 ⁵⁵ 55	10 ³⁵ 35	28 ⁰ 43	19 ³⁵ 35
T 21	19 50 20	27 ⁰ 3'21	7 ¹¹ 28	20 ²⁶ 26	12 ⁰ 4	20 ⁴² 42	23 ¹⁴ 14	6 ⁴¹ 41	22 ²⁰ 20	4 ¹⁹ 19	20 ⁰ 3	9 ⁵⁰ 50	10 ³² 32	28 ⁰ 50	19 ³¹ 31
W22	19 54 17	28 ⁰ 0'39	22 ⁰ 4	22 ³³ 33	12 ⁵⁵ 55	21 ¹⁴ 14	23 ¹² 12	6 ³⁷ 37	22 ¹⁸ 18	4 ²¹ 21	20 ⁰ 4	9 ⁴³ 43	10 ²⁹ 29	28 ⁰ 57	19 ²⁸ 28
T 23	19 58 13	28 ⁵⁷ 57	7 ³⁶ 3	24 ⁴⁰ 40	13 ⁴⁵ 45	21 ⁴⁶ 46	23 ¹¹ 11	6 ³² 32	22 ¹⁶ 16	4 ²³ 23	20 ⁰ 5	9 ³⁴ 34	10 ²⁵ 25	29 ⁰ 4	19 ²⁴ 24
F 24	20 2 10	29 ⁵⁵ 16	22 ⁰ 7	26 ⁴⁸ 48	14 ³⁵ 35	22 ¹⁸ 18	23 ⁰ 9	6 ²⁸ 28	22 ¹⁴ 14	4 ²⁵ 25	20 ⁰ 6	9 ²⁴ 24	10 ²² 22	29 ⁰ 10	19 ²¹ 21
S 25	20 6 6	0 ⁵² 36	7 ¹² 35	28 ⁵⁵ 55	15 ²⁴ 24	22 ⁵¹ 51	23 ⁰ 7	6 ²³ 23	22 ¹³ 13	4 ²⁸ 28	20 ⁰ 7	9 ¹⁵ 15	10 ¹⁹ 19	29 ⁰ 17	19 ¹⁷ 17
S 26	20 10 3	1 ⁴⁹ 57	22 ⁴⁷ 47	1 ¹² 2	16 ¹³ 13	23 ²³ 23	23 ⁰ 5	6 ¹⁹ 19	22 ¹¹ 11	4 ³⁰ 30	20 ⁰ 8	9 ⁰ 7	10 ¹⁶ 16	29 ⁰ 24	19 ¹⁴ 14
M27	20 13 59	2 ⁴⁷ 18	7 ¹⁷ 42	3 ⁰ 9	17 ⁰ 0	23 ⁵⁶ 56	23 ⁰ 2	6 ¹⁵ 15	22 ⁰ 9	4 ³² 32	20 ¹⁰ 10	9 ⁰ 1	10 ¹³ 13	29 ⁰ 30	19 ¹⁰ 10
T 28	20 17 56	3 ⁴⁴ 39	22 ¹² 12	5 ¹⁵ 15	17 ⁴⁷ 47	24 ²⁹ 29	23 ⁰ 0	6 ¹⁰ 10	22 ⁰ 8	4 ³⁴ 34	20 ¹¹ 11	8 ⁵⁸ 58	10 ¹⁰ 10	29 ⁰ 37	19 ⁰ 7
W29	20 21 53	4 ⁴² 01	6 ¹⁶ 16	7 ¹⁹ 19	18 ³³ 33	25 ⁰ 3	22 ⁵⁷ 57	6 ⁰ 6	22 ⁰ 6	4 ³⁶ 36	20 ¹² 12	8 ⁰ D57	10 ⁰ 6	29 ⁰ 44	19 ⁰ 3
T 30	20 25 49	5 ³⁹ 23	19 ⁵¹ 51	9 ²³ 23	19 ¹⁸ 18	25 ³⁶ 36	22 ⁵⁴ 54	6 ⁰ 1	22 ⁰ 4	4 ³⁸ 38	20 ¹³ 13	8 ⁵⁷ 57	10 ⁰ 3	29 ⁰ 51	19 ⁰ 0
F 31	20 29 46	6 ³⁶ 46	3 ¹¹ 0	11 ²⁵ 25	20 ¹⁷ 17	26 ¹⁰ 10	22 ¹⁸ 18	5 ⁵⁵ 55	22 ¹⁸ 18	4 ⁴⁰ 40	20 ¹⁴ 14	8 ⁰ R58	10 ⁰ 0	29 ⁰ 57	18 ⁰ 56

Delta T = 1.89 sec.

AUGUST 1903

00:00 UT

Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	20 33 42	7♂34'10	15♂48	13♂26	20♂46	26♂44	22°R48	5°R52	22°R 1	4♂41	20♂15	8°R57	9♂57	0♂ 4	18°R53
S 2	20 37 39	8°31'34	28°16	15°26	21°29	27°18	22♂44	5♂48	22♂ 0	4°43	20°16	8♂55	9°54	0°11	18♂50
M 3	20 41 35	9°28'59	10♂31	17°24	22°10	27°52	22°40	5°43	21°59	4°45	20°17	8°51	9°50	0°17	18°47
T 4	20 45 32	10°26'24	22°36	19°20	22°50	28°27	22°36	5°39	21°57	4°47	20°18	8°45	9°47	0°24	18°43
W 5	20 49 28	11°23'51	4♂34	21°15	23°30	29° 1	22°32	5°34	21°56	4°49	20°19	8°36	9°44	0°31	18°40
T 6	20 53 25	12°21'18	16°28	23° 9	24° 8	29°36	22°28	5°30	21°55	4°51	20°20	8°26	9°41	0°38	18°37
F 7	20 57 22	13°18'46	28°21	25° 1	24°45	0♂11	22°24	5°26	21°53	4°53	20°21	8°16	9°38	0°44	18°34
S 8	21 1 18	14°16'15	10♂13	26°51	25°21	0°46	22°19	5°21	21°52	4°55	20°21	8° 6	9°35	0°51	18°31
S 9	21 5 15	15°13'45	22° 7	28°40	25°55	1°21	22°14	5°17	21°51	4°56	20°22	7°57	9°31	0°58	18°28
M10	21 9 11	16°11'16	4♂ 4	0♂27	26°29	1°57	22° 9	5°13	21°50	4°58	20°23	7°50	9°28	1° 4	18°25
T 11	21 13 8	17° 8'48	16° 7	2°13	27° 1	2°32	22° 4	5° 8	21°49	5° 0	20°24	7°45	9°25	1°11	18°22
W12	21 17 4	18° 6'21	28°17	3°57	27°31	3° 8	21°59	5° 4	21°48	5° 2	20°25	7°43	9°22	1°18	18°19
T 13	21 21 1	19° 3'56	10♂36	5°40	28° 0	3°44	21°54	5° 0	21°47	5° 3	20°26	7°D42	9°19	1°25	18°16
F 14	21 24 57	20° 1'33	23°10	7°21	28°28	4°20	21°48	4°55	21°46	5° 5	20°26	7°43	9°16	1°31	18°13
S 15	21 28 54	20°59'10	5♂59	9° 1	28°54	4°57	21°43	4°51	21°45	5° 7	20°27	7°44	9°12	1°38	18°10
S 16	21 32 51	21°56'50	19°10	10°39	29°18	5°33	21°37	4°47	21°44	5° 9	20°28	7°R45	9° 9	1°45	18° 8
M17	21 36 47	22°54'31	2♂43	12°16	29°41	6°10	21°31	4°43	21°44	5°10	20°29	7°45	9° 6	1°51	18° 5
T 18	21 40 44	23°52'13	16°42	13°51	0♂ 2	6°46	21°25	4°39	21°43	5°12	20°30	7°43	9° 3	1°58	18° 2
W19	21 44 40	24°49'58	1♂ 5	15°25	0°21	7°23	21°18	4°35	21°42	5°13	20°30	7°39	9° 0	2° 5	18° 0
T 20	21 48 37	25°47'43	15°51	16°58	0°38	8° 0	21°12	4°31	21°42	5°15	20°31	7°34	8°56	2°12	17°57
F 21	21 52 33	26°45'31	0♂52	18°29	0°54	8°37	21° 6	4°27	21°41	5°17	20°32	7°28	8°53	2°18	17°55
S 22	21 56 30	27°43'20	16° 1	19°58	1° 7	9°15	20°59	4°23	21°40	5°18	20°32	7°22	8°50	2°25	17°52
S 23	22 0 26	28°41'10	1♂ 7	21°26	1°19	9°52	20°52	4°19	21°40	5°20	20°33	7°17	8°47	2°32	17°50
M24	22 4 23	29°39'02	16° 1	22°53	1°28	10°30	20°45	4°15	21°39	5°21	20°34	7°14	8°44	2°38	17°48
T 25	22 8 20	30°36'55	0♂36	24°18	1°36	11° 7	20°38	4°12	21°39	5°22	20°34	7°D12	8°41	2°45	17°46
W26	22 12 16	1°34'50	14°45	25°41	1°41	11°45	20°31	4° 8	21°39	5°24	20°35	7°12	8°37	2°52	17°43
T 27	22 16 13	2°32'46	28°27	27° 3	1°43	12°23	20°24	4° 4	21°38	5°25	20°35	7°13	8°34	2°58	17°41
F 28	22 20 9	3°30'43	11♂42	28°23	1°R44	13° 2	20°17	4° 1	21°38	5°27	20°36	7°15	8°31	3° 5	17°39
S 29	22 24 6	4°28'41	24°34	29°42	1°42	13°40	20° 9	3°57	21°38	5°28	20°36	7°16	8°28	3°12	17°37
S 30	22 28 2	5°26'41	7♂ 5	0♂59	1°38	14°18	20° 2	3°54	21°38	5°29	20°37	7°R17	8°25	3°19	17°35
M31	22 31 59	6♂24'42	19♂20	2♂14	1♂32	14♂57	19♂55	3♂50	21♂38	5♂31	20♂37	7♂16	8♂21	3♂25	17♂33

SWISS EPHEMERIS for the year 1903

SEPTEMBER 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	22 35 55	7 ^h 22'45"	1 ^h 23'	3 ^h 27'	1 ^h R23	15 ^h 36'	19 ^h R47	3 ^h R47	21 ^h D38	5 ^h 32'	20 ^h 38'	7 ^h R14	8 ^h 18'	3 ^h 32'	17 ^h R32
W 2	22 39 52	8 ^h 20'49"	13 ^h 19'	4 ^h 39'	1 ^h 11'	16 ^h 14'	19 ^h 39'	3 ^h 44'	21 ^h 38'	5 ^h 33'	20 ^h 38'	7 ^h 10'	8 ^h 15'	3 ^h 39'	17 ^h 30'
T 3	22 43 49	9 ^h 18'54"	25 ^h 11'	5 ^h 49'	0 ^h 57'	16 ^h 53'	19 ^h 32'	3 ^h 40'	21 ^h 38'	5 ^h 34'	20 ^h 39'	7 ^h 6'	8 ^h 12'	3 ^h 45'	17 ^h 28'
F 4	22 47 45	10 ^h 17'01"	7 ^h 33'	6 ^h 56'	0 ^h 41'	17 ^h 32'	19 ^h 24'	3 ^h 37'	21 ^h 38'	5 ^h 35'	20 ^h 39'	7 ^h 1'	8 ^h 9'	3 ^h 52'	17 ^h 27'
S 5	22 51 42	11 ^h 15'10"	18 ^h 57'	8 ^h 1'	0 ^h 23'	18 ^h 12'	19 ^h 16'	3 ^h 34'	21 ^h 38'	5 ^h 37'	20 ^h 39'	6 ^h 57'	8 ^h 6'	3 ^h 59'	17 ^h 25'
S 6	22 55 38	12 ^h 13'20"	0 ^h 57'	9 ^h 4'	0 ^h 2'	18 ^h 51'	19 ^h 8'	3 ^h 31'	21 ^h 38'	5 ^h 38'	20 ^h 40'	6 ^h 53'	8 ^h 2'	4 ^h 6'	17 ^h 24'
M 7	22 59 35	13 ^h 11'31"	13 ^h 2'	10 ^h 5'	29 ^h 39'	19 ^h 30'	19 ^h 0'	3 ^h 28'	21 ^h 39'	5 ^h 39'	20 ^h 40'	6 ^h 50'	7 ^h 59'	4 ^h 12'	17 ^h 23'
T 8	23 3 31	14 ^h 9'45"	25 ^h 16'	11 ^h 3'	29 ^h 14'	20 ^h 10'	18 ^h 52'	3 ^h 25'	21 ^h 39'	5 ^h 40'	20 ^h 40'	6 ^h 48'	7 ^h 56'	4 ^h 19'	17 ^h 21'
W 9	23 7 28	15 ^h 8'00"	7 ^h 40'	11 ^h 58'	28 ^h 47'	20 ^h 50'	18 ^h 45'	3 ^h 23'	21 ^h 39'	5 ^h 41'	20 ^h 41'	6 ^h D48	7 ^h 53'	4 ^h 26'	17 ^h 20'
T 10	23 11 24	16 ^h 6'17"	20 ^h 14'	12 ^h 51'	28 ^h 19'	21 ^h 29'	18 ^h 37'	3 ^h 20'	21 ^h 40'	5 ^h 42'	20 ^h 41'	6 ^h 48'	7 ^h 50'	4 ^h 32'	17 ^h 19'
F 11	23 15 21	17 ^h 4'36"	3 ^h 1'	13 ^h 40'	27 ^h 48'	22 ^h 9'	18 ^h 29'	3 ^h 17'	21 ^h 40'	5 ^h 43'	20 ^h 41'	6 ^h 50'	7 ^h 47'	4 ^h 39'	17 ^h 18'
S 12	23 19 17	18 ^h 2'57"	16 ^h 3'	14 ^h 26'	27 ^h 16'	22 ^h 49'	18 ^h 21'	3 ^h 15'	21 ^h 41'	5 ^h 44'	20 ^h 41'	6 ^h 51'	7 ^h 43'	4 ^h 46'	17 ^h 17'
S 13	23 23 14	19 ^h 1'21"	29 ^h 20'	15 ^h 9'	26 ^h 43'	23 ^h 30'	18 ^h 13'	3 ^h 12'	21 ^h 41'	5 ^h 45'	20 ^h 42'	6 ^h 52'	7 ^h 40'	4 ^h 53'	17 ^h 16'
M14	23 27 11	19 ^h 59'44"	12 ^h 55'	15 ^h 47'	26 ^h 8'	24 ^h 10'	18 ^h 5'	3 ^h 10'	21 ^h 42'	5 ^h 46'	20 ^h 42'	6 ^h 53'	7 ^h 37'	4 ^h 59'	17 ^h 15'
T 15	23 31 7	20 ^h 58'14"	26 ^h 48'	16 ^h 22'	25 ^h 33'	24 ^h 50'	17 ^h 57'	3 ^h 8'	21 ^h 43'	5 ^h 47'	20 ^h 42'	6 ^h R53	7 ^h 34'	5 ^h 6'	17 ^h 14'
W16	23 35 4	21 ^h 56'44"	10 ^h 59'	16 ^h 52'	24 ^h 56'	25 ^h 31'	17 ^h 49'	3 ^h 6'	21 ^h 43'	5 ^h 47'	20 ^h 42'	6 ^h 52'	7 ^h 31'	5 ^h 13'	17 ^h 13'
T 17	23 39 0	22 ^h 55'16"	25 ^h 26'	17 ^h 17'	24 ^h 20'	26 ^h 11'	17 ^h 41'	3 ^h 4'	21 ^h 44'	5 ^h 48'	20 ^h 42'	6 ^h 51'	7 ^h 27'	5 ^h 19'	17 ^h 13'
F 18	23 42 57	23 ^h 53'50"	10 ^h 6'	17 ^h 37'	23 ^h 43'	26 ^h 52'	17 ^h 33'	3 ^h 2'	21 ^h 45'	5 ^h 49'	20 ^h 42'	6 ^h 50'	7 ^h 24'	5 ^h 26'	17 ^h 12'
S 19	23 46 53	24 ^h 52'27"	24 ^h 52'	17 ^h 52'	23 ^h 6'	27 ^h 33'	17 ^h 25'	3 ^h 0'	21 ^h 46'	5 ^h 50'	20 ^h 42'	6 ^h 48'	7 ^h 21'	5 ^h 33'	17 ^h 12'
S 20	23 50 50	25 ^h 51'05"	9 ^h 38'	18 ^h 1'	22 ^h 29'	28 ^h 14'	17 ^h 17'	2 ^h 58'	21 ^h 47'	5 ^h 50'	20 ^h 42'	6 ^h 47'	7 ^h 18'	5 ^h 39'	17 ^h 11'
M21	23 54 46	26 ^h 49'45"	24 ^h 17'	18 ^h R 4'	21 ^h 53'	28 ^h 55'	17 ^h 9'	2 ^h 56'	21 ^h 48'	5 ^h 51'	20 ^h 42'	6 ^h 46'	7 ^h 15'	5 ^h 46'	17 ^h 11'
T 22	23 58 43	27 ^h 48'28"	8 ^h 42'	18 ^h 0'	21 ^h 17'	29 ^h 36'	17 ^h 2'	2 ^h 54'	21 ^h 49'	5 ^h 52'	20 ^h R42	6 ^h D46	7 ^h 12'	5 ^h 53'	17 ^h 11'
W23	0 2 40	28 ^h 47'12"	22 ^h 47'	17 ^h 49'	20 ^h 43'	0 ^h 51'	16 ^h 54'	2 ^h 53'	21 ^h 50'	5 ^h 52'	20 ^h 42'	6 ^h 46'	7 ^h 8'	6 ^h 0'	17 ^h 11'
T 24	0 6 36	29 ^h 45'58"	6 ^h 29'	17 ^h 32'	20 ^h 9'	0 ^h 59'	16 ^h 46'	2 ^h 51'	21 ^h 51'	5 ^h 53'	20 ^h 42'	6 ^h 47'	7 ^h 5'	6 ^h 6'	17 ^h 11'
F 25	0 10 33	0 ^h 44'46"	19 ^h 48'	17 ^h 7'	19 ^h 37'	1 ^h 40'	16 ^h 39'	2 ^h 50'	21 ^h 52'	5 ^h 53'	20 ^h 42'	6 ^h 48'	7 ^h 2'	6 ^h 13'	17 ^h D11
S 26	0 14 29	1 ^h 43'36"	2 ^h 43'	16 ^h 34'	19 ^h 6'	2 ^h 22'	16 ^h 31'	2 ^h 49'	21 ^h 53'	5 ^h 54'	20 ^h 42'	6 ^h 48'	6 ^h 59'	6 ^h 20'	17 ^h 11'
S 27	0 18 26	2 ^h 42'28"	15 ^h 18'	15 ^h 55'	18 ^h 37'	3 ^h 4'	16 ^h 24'	2 ^h 48'	21 ^h 55'	5 ^h 54'	20 ^h 42'	6 ^h 48'	6 ^h 56'	6 ^h 26'	17 ^h 11'
M28	0 22 22	3 ^h 41'21"	27 ^h 36'	15 ^h 8'	18 ^h 10'	3 ^h 45'	16 ^h 17'	2 ^h 47'	21 ^h 56'	5 ^h 55'	20 ^h 42'	6 ^h 49'	6 ^h 52'	6 ^h 33'	17 ^h 11'
T 29	0 26 19	4 ^h 40'16"	9 ^h 30'	14 ^h 15'	17 ^h 45'	4 ^h 27'	16 ^h 10'	2 ^h 46'	21 ^h 58'	5 ^h 55'	20 ^h 42'	6 ^h R49	6 ^h 49'	6 ^h 40'	17 ^h 11'
W30	0 30 15	5 ^h 39'13"	21 ^h 36'	13 ^h 16'	17 ^h 22'	5 ^h 51'	16 ^h 3'	2 ^h 45'	21 ^h 59'	5 ^h 55'	20 ^h 42'	6 ^h 49'	6 ^h 46'	6 ^h 47'	17 ^h 12'

Delta T = 2.13 sec.

OCTOBER 1903

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Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	0 34 12	6 ^h 38'11	3 ^h 28	12 ^h R12	17 ^h R 1	5 ^h 51	15 ^h R56	2 ^h R44	22 ^h 0	5 ^h 56	20 ^h R41	6 ^h D49	6 ^h 43	6 ^h 53	17 ^h 12
F 2	0 38 9	7 ^h 37'12	15 ^h 21	11 ^h 5	16 ^h 42	6 ^h 34	15 ^h 49	2 ^h 43	22 ^h 2	5 ^h 56	20 ^h 41	6 ^h 49	6 ^h 40	7 ^h 0	17 ^h 13
S 3	0 42 5	8 ^h 36'14	27 ^h 18	9 ^h 57	16 ^h 26	7 ^h 16	15 ^h 42	2 ^h 43	22 ^h 4	5 ^h 56	20 ^h 41	6 ^h 49	6 ^h 37	7 ^h 7	17 ^h 13
S 4	0 46 2	9 ^h 35'18	9 ^h 22	8 ^h 48	16 ^h 12	7 ^h 58	15 ^h 35	2 ^h 42	22 ^h 5	5 ^h 57	20 ^h 41	6 ^h 49	6 ^h 33	7 ^h 13	17 ^h 14
M 5	0 49 58	10 ^h 34'24	21 ^h 37	7 ^h 40	16 ^h 1	8 ^h 41	15 ^h 29	2 ^h 42	22 ^h 7	5 ^h 57	20 ^h 40	6 ^h 49	6 ^h 30	7 ^h 20	17 ^h 15
T 6	0 53 55	11 ^h 33'32	4 ^h 5	6 ^h 37	15 ^h 52	9 ^h 23	15 ^h 22	2 ^h 42	22 ^h 9	5 ^h 57	20 ^h 40	6 ^h R49	6 ^h 27	7 ^h 27	17 ^h 16
W 7	0 57 51	12 ^h 32'41	16 ^h 46	5 ^h 38	15 ^h 45	10 ^h 6	15 ^h 16	2 ^h 41	22 ^h 10	5 ^h 57	20 ^h 40	6 ^h 49	6 ^h 24	7 ^h 33	17 ^h 16
T 8	1 1 48	13 ^h 31'53	29 ^h 41	4 ^h 47	15 ^h 41	10 ^h 49	15 ^h 10	2 ^h D41	22 ^h 12	5 ^h 57	20 ^h 39	6 ^h 49	6 ^h 21	7 ^h 40	17 ^h 17
F 9	1 5 44	14 ^h 31'07	12 ^h 51	4 ^h 4	15 ^h D40	11 ^h 32	15 ^h 4	2 ^h 41	22 ^h 14	5 ^h 57	20 ^h 39	6 ^h 48	6 ^h 18	7 ^h 47	17 ^h 19
S 10	1 9 41	15 ^h 30'24	26 ^h 14	3 ^h 31	15 ^h 40	12 ^h 15	14 ^h 58	2 ^h 41	22 ^h 16	5 ^h R57	20 ^h 39	6 ^h 47	6 ^h 14	7 ^h 54	17 ^h 20
S 11	1 13 37	16 ^h 29'42	9 ^h 50	3 ^h 8	15 ^h 43	12 ^h 58	14 ^h 52	2 ^h 42	22 ^h 18	5 ^h 57	20 ^h 38	6 ^h 46	6 ^h 11	8 ^h 0	17 ^h 21
M12	1 17 34	17 ^h 29'03	23 ^h 37	2 ^h 56	15 ^h 49	13 ^h 41	14 ^h 47	2 ^h 42	22 ^h 20	5 ^h 57	20 ^h 38	6 ^h 45	6 ^h 8	8 ^h 7	17 ^h 22
T 13	1 21 31	18 ^h 28'26	7 ^h 35	2 ^h D55	15 ^h 57	14 ^h 24	14 ^h 42	2 ^h 42	22 ^h 22	5 ^h 57	20 ^h 37	6 ^h 44	6 ^h 5	8 ^h 14	17 ^h 24
W14	1 25 27	19 ^h 27'52	21 ^h 41	3 ^h 4	16 ^h 7	15 ^h 7	14 ^h 36	2 ^h 43	22 ^h 24	5 ^h 57	20 ^h 37	6 ^h D44	6 ^h 2	8 ^h 20	17 ^h 25
T 15	1 29 24	20 ^h 27'20	5 ^h 15	3 ^h 24	16 ^h 19	15 ^h 50	14 ^h 31	2 ^h 44	22 ^h 26	5 ^h 57	20 ^h 36	6 ^h 44	5 ^h 58	8 ^h 27	17 ^h 27
F 16	1 33 20	21 ^h 26'50	20 ^h 13	3 ^h 54	16 ^h 33	16 ^h 34	14 ^h 26	2 ^h 44	22 ^h 28	5 ^h 57	20 ^h 36	6 ^h 45	5 ^h 55	8 ^h 34	17 ^h 28
S 17	1 37 17	22 ^h 26'22	4 ^h 33	4 ^h 34	16 ^h 49	17 ^h 17	14 ^h 22	2 ^h 45	22 ^h 30	5 ^h 56	20 ^h 35	6 ^h 46	5 ^h 52	8 ^h 40	17 ^h 30
S 18	1 41 13	23 ^h 25'57	18 ^h 51	5 ^h 22	17 ^h 8	18 ^h 1	14 ^h 17	2 ^h 46	22 ^h 33	5 ^h 56	20 ^h 35	6 ^h 48	5 ^h 49	8 ^h 47	17 ^h 32
M19	1 45 10	24 ^h 25'34	3 ^h 3	6 ^h 17	17 ^h 28	18 ^h 45	14 ^h 13	2 ^h 47	22 ^h 35	5 ^h 56	20 ^h 34	6 ^h R48	5 ^h 46	8 ^h 54	17 ^h 33
T 20	1 49 6	25 ^h 25'13	17 ^h 6	7 ^h 20	17 ^h 50	19 ^h 29	14 ^h 8	2 ^h 48	22 ^h 37	5 ^h 56	20 ^h 34	6 ^h 48	5 ^h 43	9 ^h 1	17 ^h 35
W21	1 53 3	26 ^h 24'54	0 ^h 56	8 ^h 29	18 ^h 14	20 ^h 12	14 ^h 4	2 ^h 49	22 ^h 40	5 ^h 55	20 ^h 33	6 ^h 47	5 ^h 39	9 ^h 7	17 ^h 37
T 22	1 57 0	27 ^h 24'37	14 ^h 28	9 ^h 43	18 ^h 40	20 ^h 56	14 ^h 1	2 ^h 51	22 ^h 42	5 ^h 55	20 ^h 32	6 ^h 44	5 ^h 36	9 ^h 14	17 ^h 39
F 23	2 0 56	28 ^h 24'22	27 ^h 42	11 ^h 1	19 ^h 7	21 ^h 40	13 ^h 57	2 ^h 52	22 ^h 44	5 ^h 54	20 ^h 32	6 ^h 41	5 ^h 33	9 ^h 21	17 ^h 41
S 24	2 4 53	29 ^h 24'09	10 ^h 36	12 ^h 24	19 ^h 36	22 ^h 25	13 ^h 53	2 ^h 54	22 ^h 47	5 ^h 54	20 ^h 31	6 ^h 38	5 ^h 30	9 ^h 27	17 ^h 44
S 25	2 8 49	0 ^h 23'58	23 ^h 11	13 ^h 50	20 ^h 7	23 ^h 9	13 ^h 50	2 ^h 55	22 ^h 49	5 ^h 54	20 ^h 30	6 ^h 34	5 ^h 27	9 ^h 34	17 ^h 46
M26	2 12 46	1 ^h 23'49	5 ^h 30	15 ^h 18	20 ^h 39	23 ^h 53	13 ^h 47	2 ^h 57	22 ^h 52	5 ^h 53	20 ^h 30	6 ^h 31	5 ^h 24	9 ^h 41	17 ^h 48
T 27	2 16 42	2 ^h 23'41	17 ^h 35	16 ^h 49	21 ^h 12	24 ^h 37	13 ^h 44	2 ^h 59	22 ^h 55	5 ^h 52	20 ^h 29	6 ^h 29	5 ^h 20	9 ^h 47	17 ^h 50
W28	2 20 39	3 ^h 23'35	29 ^h 31	18 ^h 22	21 ^h 47	25 ^h 22	13 ^h 42	3 ^h 1	22 ^h 57	5 ^h 52	20 ^h 28	6 ^h D28	5 ^h 17	9 ^h 54	17 ^h 53
T 29	2 24 35	4 ^h 23'30	11 ^h 23	19 ^h 56	22 ^h 23	26 ^h 6	13 ^h 39	3 ^h 3	23 ^h 0	5 ^h 51	20 ^h 28	6 ^h 28	5 ^h 14	10 ^h 1	17 ^h 55
F 30	2 28 32	5 ^h 23'27	23 ^h 15	21 ^h 32	23 ^h 1	26 ^h 51	13 ^h 37	3 ^h 5	23 ^h 3	5 ^h 51	20 ^h 27	6 ^h 29	5 ^h 11	10 ^h 8	17 ^h 58
S 31	2 32 29	6 ^h 23'26	5 ^h 12	23 ^h 9	23 ^h 40	27 ^h 35	13 ^h 35	3 ^h 7	23 ^h 5	5 ^h 50	20 ^h 26	6 ^h 31	5 ^h 8	10 ^h 14	18 ^h 3

SWISS EPHEMERIS for the year 1903

NOVEMBER 1903

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	2 36 25	7 ^m 23'26"	17 ^h 12'20"	24 ^h 46'	24 ^h 20'	28 ^h 20'	13 ^h R33	3 ^h 9'	23 ^h 8'	5 ^h R49	20 ^h R25	6 ^h 33'	5 ^h 4'	10 ^h 21'	18 ^h 3'
M 2	2 40 22	8 ^h 23'29"	29 ^h 41'	26 ^h 23'	25 ^h 1'	29 ^h 5'	13 ^h 31'	3 ^h 12'	23 ^h 11'	5 ^h 49'	20 ^h II24	6 ^h 34'	5 ^h 1'	10 ^h 28'	18 ^h 6'
T 3	2 44 18	9 ^h 23'32"	12 ^h Y19	28 ^h 2'	25 ^h 43'	29 ^h 50'	13 ^h 30'	3 ^h 14'	23 ^h 14'	5 ^h 48'	20 ^h 24'	6 ^h R34	4 ^h 58'	10 ^h 34'	18 ^h 9'
W 4	2 48 15	10 ^h 23'38"	25 ^h 17'	29 ^h 40'	26 ^h 27'	0 ^h 35'	13 ^h 28'	3 ^h 17'	23 ^h 17'	5 ^h 47'	20 ^h 23'	6 ^h 32'	4 ^h 55'	10 ^h 41'	18 ^h 12'
T 5	2 52 11	11 ^h 23'45"	8 ^h 34'	1 ^h 18'	27 ^h 11'	1 ^h 20'	13 ^h 27'	3 ^h 20'	23 ^h 20'	5 ^h 46'	20 ^h 22'	6 ^h 29'	4 ^h 52'	10 ^h 48'	18 ^h 15'
F 6	2 56 8	12 ^h 23'54"	22 ^h 9'	2 ^h 57'	27 ^h 57'	2 ^h 5'	13 ^h 26'	3 ^h 22'	23 ^h 23'	5 ^h 45'	20 ^h 21'	6 ^h 24'	4 ^h 49'	10 ^h 54'	18 ^h 18'
S 7	3 0 4	13 ^h 24'05"	6 ^h II 0	4 ^h 35'	28 ^h 43'	2 ^h 50'	13 ^h 26'	3 ^h 25'	23 ^h 25'	5 ^h 44'	20 ^h 20'	6 ^h 19'	4 ^h 45'	11 ^h 1'	18 ^h 21'
S 8	3 4 1	14 ^h 24'18"	20 ^h 4'	6 ^h 13'	29 ^h 30'	3 ^h 35'	13 ^h 25'	3 ^h 28'	23 ^h 28'	5 ^h 44'	20 ^h 19'	6 ^h 12'	4 ^h 42'	11 ^h 8'	18 ^h 24'
M 9	3 7 58	15 ^h 24'33"	4 ^h 15'	7 ^h 51'	0 ^h 19'	4 ^h 20'	13 ^h 25'	3 ^h 31'	23 ^h 32'	5 ^h 43'	20 ^h 18'	6 ^h 7'	4 ^h 39'	11 ^h 14'	18 ^h 28'
T 10	3 11 54	16 ^h 24'50"	18 ^h 29'	9 ^h 29'	1 ^h 8'	5 ^h 5'	13 ^h D25	3 ^h 34'	23 ^h 35'	5 ^h 42'	20 ^h 17'	6 ^h 2'	4 ^h 36'	11 ^h 21'	18 ^h 31'
W 11	3 15 51	17 ^h 25'09"	2 ^h 44'	11 ^h 7'	1 ^h 58'	5 ^h 51'	13 ^h 25'	3 ^h 38'	23 ^h 38'	5 ^h 41'	20 ^h 16'	5 ^h 59'	4 ^h 33'	11 ^h 28'	18 ^h 34'
T 12	3 19 47	18 ^h 25'29"	16 ^h 55'	12 ^h 44'	2 ^h 49'	6 ^h 36'	13 ^h 25'	3 ^h 41'	23 ^h 41'	5 ^h 40'	20 ^h 15'	5 ^h D58	4 ^h 29'	11 ^h 35'	18 ^h 38'
F 13	3 23 44	19 ^h 25'52"	1 ^h 11'	14 ^h 21'	3 ^h 40'	7 ^h 21'	13 ^h 26'	3 ^h 44'	23 ^h 44'	5 ^h 39'	20 ^h 15'	5 ^h 59'	4 ^h 26'	11 ^h 41'	18 ^h 41'
S 14	3 27 40	20 ^h 26'17"	15 ^h 1'	15 ^h 58'	4 ^h 33'	8 ^h 7'	13 ^h 27'	3 ^h 48'	23 ^h 47'	5 ^h 38'	20 ^h 14'	6 ^h 0'	4 ^h 23'	11 ^h 48'	18 ^h 45'
S 15	3 31 37	21 ^h 26'43"	28 ^h 54'	17 ^h 34'	5 ^h 26'	8 ^h 52'	13 ^h 28'	3 ^h 51'	23 ^h 50'	5 ^h 36'	20 ^h 13'	6 ^h R 1	4 ^h 20'	11 ^h 55'	18 ^h 48'
M 16	3 35 33	22 ^h 27'12"	12 ^h 38'	19 ^h 11'	6 ^h 20'	9 ^h 38'	13 ^h 29'	3 ^h 55'	23 ^h 53'	5 ^h 35'	20 ^h 12'	6 ^h 1'	4 ^h 17'	12 ^h 1'	18 ^h 52'
T 17	3 39 30	23 ^h 27'42"	26 ^h 14'	20 ^h 47'	7 ^h 14'	10 ^h 24'	13 ^h 30'	3 ^h 59'	23 ^h 57'	5 ^h 34'	20 ^h 11'	5 ^h 59'	4 ^h 14'	12 ^h 8'	18 ^h 56'
W 18	3 43 27	24 ^h 28'14"	9 ^h 40'	22 ^h 23'	8 ^h 9'	11 ^h 9'	13 ^h 32'	4 ^h 3'	24 ^h 0'	5 ^h 33'	20 ^h 9'	5 ^h 55'	4 ^h 10'	12 ^h 15'	19 ^h 0'
T 19	3 47 23	25 ^h 28'48"	22 ^h 53'	23 ^h 58'	9 ^h 5'	11 ^h 55'	13 ^h 34'	4 ^h 6'	24 ^h 3'	5 ^h 32'	20 ^h 8'	5 ^h 48'	4 ^h 7'	12 ^h 21'	19 ^h 3'
F 20	3 51 20	26 ^h 29'23"	5 ^h 52'	25 ^h 34'	10 ^h 1'	12 ^h 41'	13 ^h 36'	4 ^h 10'	24 ^h 7'	5 ^h 31'	20 ^h 7'	5 ^h 40'	4 ^h 4'	12 ^h 28'	19 ^h 7'
S 21	3 55 16	27 ^h 30'00"	18 ^h 37'	27 ^h 9'	10 ^h 58'	13 ^h 27'	13 ^h 38'	4 ^h 15'	24 ^h 10'	5 ^h 29'	20 ^h 6'	5 ^h 30'	4 ^h 1'	12 ^h 35'	19 ^h 11'
S 22	3 59 13	28 ^h 30'38"	1 ^h 37'	28 ^h 44'	11 ^h 55'	14 ^h 13'	13 ^h 40'	4 ^h 19'	24 ^h 13'	5 ^h 28'	20 ^h 5'	5 ^h 20'	3 ^h 58'	12 ^h 42'	19 ^h 15'
M 23	4 3 9	29 ^h 31'17"	13 ^h 23'	0 ^h 18'	12 ^h 53'	14 ^h 59'	13 ^h 43'	4 ^h 23'	24 ^h 17'	5 ^h 27'	20 ^h 4'	5 ^h 10'	3 ^h 55'	12 ^h 48'	19 ^h 19'
T 24	4 7 6	0 ^h 31'58"	25 ^h 27'	1 ^h 53'	13 ^h 52'	15 ^h 45'	13 ^h 46'	4 ^h 27'	24 ^h 20'	5 ^h 25'	20 ^h 3'	5 ^h 3'	3 ^h 51'	12 ^h 55'	19 ^h 23'
W 25	4 11 2	1 ^h 32'40"	7 ^h 22'	3 ^h 27'	14 ^h 51'	16 ^h 31'	13 ^h 49'	4 ^h 32'	24 ^h 23'	5 ^h 24'	20 ^h 2'	4 ^h 57'	3 ^h 48'	13 ^h 2'	19 ^h 27'
T 26	4 14 59	2 ^h 33'23"	19 ^h 12'	5 ^h 1'	15 ^h 50'	17 ^h 17'	13 ^h 52'	4 ^h 36'	24 ^h 27'	5 ^h 23'	20 ^h 1'	4 ^h 54'	3 ^h 45'	13 ^h 8'	19 ^h 32'
F 27	4 18 56	3 ^h 34'07"	1 ^h 12'	6 ^h 35'	16 ^h 50'	18 ^h 3'	13 ^h 55'	4 ^h 41'	24 ^h 30'	5 ^h 21'	20 ^h 0'	4 ^h D53	3 ^h 42'	13 ^h 15'	19 ^h 36'
S 28	4 22 52	4 ^h 34'51"	12 ^h 57'	8 ^h 9'	17 ^h 51'	18 ^h 50'	13 ^h 59'	4 ^h 45'	24 ^h 34'	5 ^h 20'	19 ^h 59'	4 ^h 53'	3 ^h 39'	13 ^h 22'	19 ^h 40'
S 29	4 26 49	5 ^h 35'37"	25 ^h 3'	9 ^h 43'	18 ^h 51'	19 ^h 36'	14 ^h 3'	4 ^h 50'	24 ^h 37'	5 ^h 19'	19 ^h 58'	4 ^h 54'	3 ^h 35'	13 ^h 28'	19 ^h 44'
M 30	4 30 45	6 ^h 36'24"	7 ^h Y24	11 ^h 17'	19 ^h 53'	20 ^h 22'	14 ^h 7'	4 ^h 55'	24 ^h 41'	5 ^h 17'	19 ^h II56	4 ^h R54	3 ^h 32'	13 ^h 35'	19 ^h 49'

Delta T = 2.36 sec.

DECEMBER 1903

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Day	Sid.t	☉	☽	♀	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	4 34 42	7 ^h 37'12"	20 ^h Y 6	12 ^h 51'	20 ^h 54'	21 ^h 39'	14 ^h 11'	5 ^h 00'	24 ^h 44'	5 ^h R16	19 ^h R55	4 ^h R53	3 ^h 29'	13 ^h 42'	19 ^h 53'
W 2	4 38 38	8 ^h 38'01"	3 ^h 11'	14 ^h 24'	21 ^h 56'	21 ^h 55'	14 ^h 15'	5 ^h 5'	24 ^h 48'	5 ^h 14'	19 ^h II54	4 ^h 49'	3 ^h 26'	13 ^h 48'	19 ^h 58'
T 3	4 42 35	9 ^h 38'51"	16 ^h 42'	15 ^h 58'	22 ^h 59'	22 ^h 41'	14 ^h 20'	5 ^h 10'	24 ^h 51'	5 ^h 13'	19 ^h 53'	4 ^h 43'	3 ^h 23'	13 ^h 55'	20 ^h 2'
F 4	4 46 31	10 ^h 39'42"	0 ^h II37	17 ^h 32'	24 ^h 1'	23 ^h 28'	14 ^h 25'	5 ^h 15'	24 ^h 55'	5 ^h 11'	19 ^h 52'	4 ^h 35'	3 ^h 20'	14 ^h 2'	20 ^h 7'
S 5	4 50 28	11 ^h 40'34"	14 ^h 54'	19 ^h 5'	25 ^h 4'	24 ^h 14'	14 ^h 30'	5 ^h 20'	24 ^h 58'	5 ^h 10'	19 ^h 51'	4 ^h 24'	3 ^h 16'	14 ^h 8'	20 ^h 11'
S 6	4 54 25	12 ^h 41'27"	29 ^h 27'	20 ^h 39'	26 ^h 8'	25 ^h 1'	14 ^h 35'	5 ^h 25'	25 ^h 2'	5 ^h 8'	19 ^h 50'	4 ^h 13'	3 ^h 13'	14 ^h 15'	20 ^h 16'
M 7	4 58 21	13 ^h 42'21"	14 ^h 27'	22 ^h 12'	27 ^h 12'	25 ^h 47'	14 ^h 40'	5 ^h 30'	25 ^h 6'	5 ^h 7'	19 ^h 48'	4 ^h 3'	3 ^h 10'	14 ^h 22'	20 ^h 21'
T 8	5 2 18	14 ^h 43'16"	28 ^h 48'	23 ^h 46'	28 ^h 16'	26 ^h 34'	14 ^h 45'	5 ^h 36'	25 ^h 9'	5 ^h 5'	19 ^h 47'	3 ^h 54'	3 ^h 7'	14 ^h 29'	20 ^h 25'
W 9	5 6 14	15 ^h 44'13"	13 ^h 22'	25 ^h 19'	29 ^h 20'	27 ^h 21'	14 ^h 51'	5 ^h 41'	25 ^h 13'	5 ^h 4'	19 ^h 46'	3 ^h 48'	3 ^h 4'	14 ^h 35'	20 ^h 30'
T 10	5 10 11	16 ^h 45'10"	27 ^h 45'	26 ^h 52'	0 ^h II25	28 ^h 7'	14 ^h 57'	5 ^h 46'	25 ^h 16'	5 ^h 2'	19 ^h 45'	3 ^h 44'	3 ^h 1'	14 ^h 42'	20 ^h 35'
F 11	5 14 7	17 ^h 46'09"	11 ^h Y54	28 ^h 26'	1 ^h 30'	28 ^h 54'	15 ^h 3'	5 ^h 52'	25 ^h 20'	5 ^h 0'	19 ^h 44'	3 ^h 43'	2 ^h 57'	14 ^h 49'	20 ^h 39'
S 12	5 18 4	18 ^h 47'09"	25 ^h 47'	29 ^h 59'	2 ^h 36'	29 ^h 41'	15 ^h 9'	5 ^h 58'	25 ^h 24'	4 ^h 59'	19 ^h 43'	3 ^h D43	2 ^h 54'	14 ^h 55'	20 ^h 44'
S 13	5 22 0	19 ^h 48'10"	9 ^h 26'	1 ^h 32'	3 ^h 41'	0 ^h 27'	15 ^h 15'	6 ^h 3'	25 ^h 27'	4 ^h 57'	19 ^h 41'	3 ^h R43	2 ^h 51'	15 ^h 2'	20 ^h 49'
M 14	5 25 57	20 ^h 49'13"	22 ^h 51'	3 ^h 6'	4 ^h 47'	1 ^h 14'	15 ^h 22'	6 ^h 9'	25 ^h 31'	4 ^h 55'	19 ^h 40'	3 ^h 41'	2 ^h 48'	15 ^h 9'	20 ^h 54'
T 15	5 29 54	21 ^h 50'16"	6 ^h II 5	4 ^h 38'	5 ^h 53'	2 ^h 1'	15 ^h 28'	6 ^h 15'	25 ^h 34'	4 ^h 54'	19 ^h 39'	3 ^h 38'	2 ^h 45'	15 ^h 15'	20 ^h 59'
W 16	5 33 50	22 ^h 51'20"	19 ^h 6'	6 ^h 11'	7 ^h 0'	2 ^h 48'	15 ^h 35'	6 ^h 20'	25 ^h 38'	4 ^h 52'	19 ^h 38'	3 ^h 31'	2 ^h 41'	15 ^h 22'	21 ^h 4'
T 17	5 37 47	23 ^h 52'25"	1 ^h 58'	7 ^h 44'	8 ^h 6'	3 ^h 35'	15 ^h 42'	6 ^h 26'	25 ^h 42'	4 ^h 51'	19 ^h 37'	3 ^h 21'	2 ^h 38'	15 ^h 29'	21 ^h 9'
F 18	5 41 43	24 ^h 53'31"	14 ^h 38'	9 ^h 16'	9 ^h 13'	4 ^h 22'	15 ^h 49'	6 ^h 32'	25 ^h 45'	4 ^h 49'	19 ^h 36'	3 ^h 9'	2 ^h 35'	15 ^h 35'	21 ^h 14'
S 19	5 45 40	25 ^h 54'37"	27 ^h 8'	10 ^h 48'	10 ^h 20'	5 ^h 9'	15 ^h 57'	6 ^h 38'	25 ^h 49'	4 ^h 47'	19 ^h 34'	2 ^h 54'	2 ^h 32'	15 ^h 42'	21 ^h 19'
S 20	5 49 36	26 ^h 55'44"	9 ^h 27'	12 ^h 19'	11 ^h 28'	5 ^h 55'	16 ^h 4'	6 ^h 44'	25 ^h 53'	4 ^h 46'	19 ^h 33'	2 ^h 40'	2 ^h 29'	15 ^h 49'	21 ^h 24'
M 21	5 53 33	27 ^h 56'52"	21 ^h 36'	13 ^h 50'	12 ^h 35'	6 ^h 42'	16 ^h 12'	6 ^h 50'	25 ^h 56'	4 ^h 44'	19 ^h 32'	2 ^h 26'	2 ^h 26'	15 ^h 56'	21 ^h 29'
T 22	5 57 29	28 ^h 58'00"	3 ^h 35'	15 ^h 20'	13 ^h 43'	7 ^h 29'	16 ^h 20'	6 ^h 56'	26 ^h 0'	4 ^h 42'	19 ^h 31'	2 ^h 14'	2 ^h 22'	16 ^h 2'	21 ^h 34'
W 23	6 1 26	29 ^h 59'08"	15 ^h 27'	16 ^h 49'	14 ^h 51'	8 ^h 16'	16 ^h 28'	7 ^h 3'	26 ^h 4'	4 ^h 40'	19 ^h 30'	2 ^h 4'	2 ^h 19'	16 ^h 9'	21 ^h 39'
T 24	6 5 23	1 ^h 0'16"	27 ^h 15'	18 ^h 16'	15 ^h 59'	9 ^h 3'	16 ^h 36'	7 ^h 9'	26 ^h 7'	4 ^h 39'	19 ^h 29'	1 ^h 58'	2 ^h 16'	16 ^h 16'	21 ^h 45'
F 25	6 9 19	2 ^h 1'25"	9 ^h 1'	19 ^h 43'	17 ^h 7'	9 ^h 50'	16 ^h 44'	7 ^h 15'	26 ^h 11'	4 ^h 37'	19 ^h 28'	1 ^h 54'	2 ^h 13'	16 ^h 22'	21 ^h 50'
S 26	6 13 16	3 ^h 2'34"	20 ^h 56'	21 ^h 7'	18 ^h 16'	10 ^h 38'	16 ^h 52'	7 ^h 21'	26 ^h 14'	4 ^h 35'	19 ^h 26'	1 ^h 53'	2 ^h 10'	16 ^h 29'	21 ^h 55'
S 27	6 17 12	4 ^h 3'42"	2 ^h Y58	22 ^h 30'	19 ^h 24'	11 ^h 25'	17 ^h 1'	7 ^h 28'	26 ^h 18'	4 ^h 34'	19 ^h 25'	1 ^h 53'	2 ^h 7'	16 ^h 36'	22 ^h 0'
M 28	6 21 9	5 ^h 4'51"	15 ^h 15'	23 ^h 50'	20 ^h 33'	12 ^h 12'	17 ^h 10'	7 ^h 34'	26 ^h 22'	4 ^h 32'	19 ^h 24'	1 ^h 52'	2 ^h 3'	16 ^h 42'	22 ^h 5'
T 29	6 25 5	6 ^h 5'59"	27 ^h 53'	25 ^h 8'	21 ^h 42'	12 ^h 59'	17 ^h 18'	7 ^h 41'	26 ^h 25'	4 ^h 30'	19 ^h 23'	1 ^h 51'	2 ^h 0'	16 ^h 49'	22 ^h 11'
W 30	6 29 2	7 ^h 7'08"	10 ^h 8'56	26 ^h 22'	22 ^h 51'	13 ^h 46'	17 ^h 27'	7 ^h 47'	26 ^h 29'	4 ^h 29'	19 ^h 22'	1 ^h 47'	1 ^h 57'	16 ^h 56'	22 ^h 16'
T 31	6 32 58	8 ^h 8'17"	24 ^h 8'28	27 ^h 32'	24 ^h II 1	14 ^h 33'	17 ^h 36'	7 ^h 54'	26 ^h 32'	4 ^h 27'	19 ^h II21	1 ^h 41'	1 ^h 54'	17 ^h 22'	22 ^h 31'