

SWISS EPHEMERIS for the year 1951

JANUARY 1951

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	6 39 21	9°35'12	7°43	11°R47	21°322	13°2	4°42	2°15	7°R21	19°25	19°R29	21°R53	22°47	9°II27	26°7
T 2	6 43 18	10°46'22	20°42	10°326	22°37	13°49	4°53	2°16	7°18	19°26	19°R28	21°453	22°44	9°34	26°13
W 3	6 47 14	11°47'32	4°45	9° 5	23°52	14°36	5° 4	2°17	7°16	19°26	19°27	21°51	22°41	9°41	26°20
T 4	6 51 11	12°48'42	19°10	7°46	25° 8	15°24	5°15	2°18	7°13	19°27	19°26	21°47	22°38	9°47	26°26
F 5	6 55 7	13°49'53	3°57	6°32	26°23	16°11	5°27	2°19	7°11	19°28	19°25	21°39	22°34	9°54	26°33
S 6	6 59 4	14°51'04	18°58	5°25	27°38	16°58	5°39	2°20	7° 8	19°28	19°24	21°30	22°31	10° 1	26°39
S 7	7 3 0	15°52'15	4°3	4°26	28°54	17°45	5°50	2°20	7° 6	19°29	19°23	21°20	22°28	10° 8	26°46
M 8	7 6 57	16°53'25	19° 7	3°36	0°9	18°32	6° 2	2°21	7° 3	19°29	19°22	21° 9	22°25	10°14	26°52
T 9	7 10 54	17°54'36	3°55	2°57	1°24	19°20	6°14	2°21	7° 1	19°30	19°21	21° 0	22°22	10°21	26°59
W10	7 14 50	18°55'46	18°21	2°27	2°39	20° 7	6°26	2°22	6°58	19°30	19°19	20°54	22°19	10°28	27° 5
T 11	7 18 47	19°56'56	2°20	2° 7	3°55	20°54	6°38	2°22	6°56	19°30	19°18	20°50	22°15	10°35	27°12
F 12	7 22 43	20°58'05	15°50	1°57	5°10	21°42	6°50	2°R22	6°53	19°31	19°17	20°D48	22°12	10°41	27°18
S 13	7 26 40	21°59'14	28°53	1°D56	6°25	22°29	7° 3	2°22	6°51	19°31	19°16	20°48	22° 9	10°48	27°24
S 14	7 30 36	23° 0'22	11°32	2° 3	7°40	23°16	7°15	2°22	6°48	19°31	19°14	20°49	22° 6	10°55	27°31
M15	7 34 33	24° 1'29	23°51	2°18	8°56	24° 3	7°27	2°21	6°46	19°31	19°13	20°R49	22° 3	11° 1	27°37
T 16	7 38 29	25° 2'36	5°56	2°39	10°11	24°51	7°40	2°21	6°43	19°32	19°12	20°49	21°59	11° 8	27°43
W17	7 42 26	26° 3'42	17°51	3° 8	11°26	25°38	7°52	2°21	6°41	19°32	19°11	20°46	21°56	11°15	27°49
T 18	7 46 23	27° 4'47	29°42	3°42	12°41	26°25	8° 5	2°20	6°38	19°32	19° 9	20°41	21°53	11°22	27°55
F 19	7 50 19	28° 5'51	11°33	4°22	13°56	27°12	8°18	2°19	6°36	19°32	19° 8	20°33	21°50	11°28	28° 2
S 20	7 54 16	29° 6'55	23°28	5° 6	15°12	28° 0	8°31	2°18	6°34	19°32	19° 7	20°24	21°47	11°35	28° 8
S 21	7 58 12	0° 7'58	5°28	5°55	16°27	28°47	8°43	2°18	6°31	19°R32	19° 5	20°14	21°44	11°42	28°14
M22	8 2 9	1° 9'00	17°36	6°47	17°42	29°34	8°56	2°17	6°29	19°32	19° 4	20° 4	21°40	11°48	28°20
T 23	8 6 5	2°10'02	29°54	7°43	18°57	0°21	9° 9	2°15	6°27	19°32	19° 3	19°55	21°37	11°55	28°26
W24	8 10 2	3°11'02	12°21	8°42	20°12	1° 9	9°22	2°14	6°25	19°32	19° 1	19°48	21°34	12° 2	28°32
T 25	8 13 58	4°12'02	24°59	9°44	21°27	1°56	9°35	2°13	6°22	19°32	19° 0	19°43	21°31	12° 9	28°37
F 26	8 17 55	5°13'01	7°48	10°49	22°42	2°43	9°49	2°11	6°20	19°32	18°58	19°40	21°28	12°15	28°43
S 27	8 21 52	6°14'00	20°48	11°56	23°57	3°30	10° 2	2°10	6°18	19°32	18°57	19°D39	21°25	12°22	28°49
S 28	8 25 48	7°14'57	4°0	13° 5	25°12	4°18	10°15	2° 8	6°16	19°31	18°56	19°40	21°21	12°29	28°55
M29	8 29 45	8°15'54	17°26	14°16	26°27	5° 5	10°29	2° 6	6°14	19°31	18°54	19°41	21°18	12°36	29° 1
T 30	8 33 41	9°16'51	1°17	15°29	27°42	5°52	10°42	2° 5	6°12	19°31	18°53	19°43	21°15	12°42	29° 6
W31	8 37 38	10°17'47	15°13	16°34	28°57	6°39	10°56	2° 3	6°10	19°30	18°51	19°R43	21°12	12°49	29°12

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 41 34	11°18'42	29°14	18°3	0°12	7°26	11°9	2°R 1	6°R 8	19°R30	18°R50	19°R41	21°9	12°II56	29°17
F 2	8 45 31	12°19'37	13°40	19°18	1°27	8°13	11°23	1°58	6°6	19°30	18°48	19°38	21° 5	13° 2	29°23
S 3	8 49 27	13°20'30	28°15	20°37	2°42	9° 0	11°36	1°56	6° 4	19°29	18°47	19°34	21° 2	13° 9	29°28
S 4	8 53 24	14°21'23	12°55	21°57	3°56	9°48	11°50	1°54	6° 2	19°29	18°46	19°28	20°59	13°16	29°34
M 5	8 57 21	15°22'15	27°32	23°19	5°11	10°35	12° 4	1°51	6° 0	19°28	18°44	19°23	20°56	13°23	29°39
T 6	9 1 17	16°23'06	12°1	24°41	6°26	11°22	12°18	1°49	5°58	19°28	18°43	19°18	20°53	13°29	29°44
W 7	9 5 14	17°23'56	26°13	26° 5	7°41	12° 9	12°31	1°46	5°57	19°27	18°41	19°14	20°50	13°36	29°49
T 8	9 9 10	18°24'44	10°5	27°30	8°56	12°56	12°45	1°44	5°55	19°27	18°40	19°13	20°46	13°43	29°55
F 9	9 13 7	19°25'31	23°34	28°56	10°10	13°43	12°59	1°41	5°53	19°26	18°38	19°D12	20°43	13°49	0° 0
S 10	9 17 3	20°26'16	6°39	0°22	11°25	14°30	13°13	1°38	5°51	19°26	18°37	19°13	20°40	13°56	0° 5
S 11	9 21 0	21°27'00	19°22	1°50	12°40	15°17	13°27	1°35	5°50	19°25	18°35	19°15	20°37	14° 3	0°10
M12	9 24 56	22°27'42	1°46	3°19	13°54	16° 4	13°41	1°32	5°48	19°24	18°34	19°17	20°34	14°10	0°15
T 13	9 28 53	23°28'23	13°55	4°48	15° 9	16°51	13°55	1°29	5°47	19°23	18°33	19°18	20°31	14°16	0°19
W14	9 32 50	24°29'02	25°53	6°19	16°24	17°37	14° 9	1°25	5°45	19°23	18°31	19°R18	20°27	14°23	0°24
T 15	9 36 46	25°29'40	7°II	7°50	17°38	18°24	14°24	1°22	5°44	19°22	18°30	19°18	20°24	14°30	0°29
F 16	9 40 43	26°30'15	19°38	9°23	18°53	19°11	14°38	1°19	5°43	19°21	18°28	19°16	20°21	14°37	0°34
S 17	9 44 39	27°30'49	1°34	10°56	20° 7	19°58	14°52	1°15	5°41	19°20	18°27	19°13	20°18	14°43	0°38
S 18	9 48 36	28°31'22	13°38	12°30	21°22	20°45	15° 6	1°12	5°40	19°19	18°25	19°10	20°15	14°50	0°43
M19	9 52 32	29°31'52	25°52	14° 5	22°36	21°32	15°20	1° 8	5°39	19°18	18°24	19° 6	20°11	14°57	0°47
T 20	9 56 29	0°32'21	8°19	15°41	23°50	22°18	15°35	1° 5	5°37	19°18	18°23	19° 3	20° 8	15° 3	0°52
W21	10 0 25	1°32'48	21° 1	17°18	25° 5	23° 5	15°49	1° 1	5°36	19°17	18°21	19° 1	20° 5	15°10	0°56
T 22	10 4 22	2°33'14	3°17	18°56	26°19	23°52	16° 3	0°57	5°35	19°16	18°20	19° 0	20° 2	15°17	1° 0
F 23	10 8 19	3°33'37	17° 9	20°35	27°33	24°38	16°18	0°53	5°34	19°15	18°18	18°D59	19°59	15°24	1° 4
S 24	10 12 15	4°34'00	0°33	22°14	28°48	25°25	16°32	0°49	5°33	19°14	18°17	18°59	19°56	15°30	1° 8
S 25	10 16 12	5°34'20	14°10	23°55	0°Y 2	26°11	16°46	0°45	5°32	19°12	18°16	19° 0	19°52	15°37	1°12
M26	10 20 8	6°34'39	27°58	25°37	1°16	26°58	17° 1	0°41	5°31	19°11	18°14	19° 1	19°49	15°44	1°16
T 27	10 24 5	7°34'57	11°55	27°19	2°30	27°44	17°15	0°37	5°31	19°10	18°13	19° 2	19°46	15°50	1°20
W28	10 28 1	8°35'14	25°59	29°3	3°Y44	28°31	17°30	0°33	5°30	19°9	18°12	19°3	19°43	15°57	1°24

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SWISS EPHEMERIS for the year 1951

MARCH 1951

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	10 31 58	9 ^h 35'29"	10 ^h 7' 9"	0 ^h 48'	4 ^h 58'	29 ^h 17'	17 ^h 44'	0 ^h R29	5 ^h R29	19 ^h R 8	18 ^h R10	19 ^h R 3	19 ^h 40'	16 ^h II 4	1 ^h 28'
F 2	10 35 54	10 ^h 35'42"	24 ^h 22'	2 ^h 34'	6 ^h 12'	0 ^h Y 4	17 ^h 59'	0 ^h 24'	5 ^h 28'	19 ^h 2 7	18 ^h 2 9	19 ^h 3 3	19 ^h 37'	16 ^h 11'	1 ^h 31'
S 3	10 39 51	11 ^h 35'54"	8 ^h 37'	4 ^h 20'	7 ^h 26'	0 ^h 50'	18 ^h 13'	0 ^h 20'	5 ^h 28'	19 ^h 6	18 ^h 8	19 ^h 2	19 ^h 33'	16 ^h 17'	1 ^h 35'
S 4	10 43 48	12 ^h 36'05"	22 ^h 49'	6 ^h 8'	8 ^h 40'	1 ^h 36'	18 ^h 28'	0 ^h 16'	5 ^h 27'	19 ^h 4	18 ^h 6	19 ^h 2	19 ^h 30'	16 ^h 24'	1 ^h 39'
M 5	10 47 44	13 ^h 36'14"	6 ^h 57'	7 ^h 57'	9 ^h 54'	2 ^h 23'	18 ^h 42'	0 ^h 11'	5 ^h 27'	19 ^h 3	18 ^h 5	19 ^h 1	19 ^h 27'	16 ^h 31'	1 ^h 42'
T 6	10 51 41	14 ^h 36'21"	20 ^h 56'	9 ^h 47'	11 ^h 8'	3 ^h 9'	18 ^h 57'	0 ^h 7'	5 ^h 26'	19 ^h 2	18 ^h 4	19 ^h 0	19 ^h 24'	16 ^h 38'	1 ^h 45'
W 7	10 55 37	15 ^h 36'26"	4 ^h 42'	11 ^h 38'	12 ^h 21'	3 ^h 55'	19 ^h 11'	0 ^h 2'	5 ^h 26'	19 ^h 1	18 ^h 2	19 ^h 0	19 ^h 21'	16 ^h 44'	1 ^h 49'
T 8	10 59 34	16 ^h 36'30"	18 ^h 15'	13 ^h 30'	13 ^h 35'	4 ^h 42'	19 ^h 26'	29 ^h 58'	5 ^h 25'	18 ^h 59'	18 ^h 1	19 ^h D 0	19 ^h 17'	16 ^h 51'	1 ^h 52'
F 9	11 3 30	17 ^h 36'32"	1 ^h Y30	15 ^h 24'	14 ^h 49'	5 ^h 28'	19 ^h 40'	29 ^h 53'	5 ^h 25'	18 ^h 58'	18 ^h 0	19 ^h 0	19 ^h 14'	16 ^h 58'	1 ^h 55'
S 10	11 7 27	18 ^h 36'31"	14 ^h 27'	17 ^h 18'	16 ^h 3'	6 ^h 14'	19 ^h 55'	29 ^h 49'	5 ^h 25'	18 ^h 57'	17 ^h 59'	19 ^h R 0	19 ^h 11'	17 ^h 4'	1 ^h 58'
S 11	11 11 23	19 ^h 36'29"	27 ^h 7'	19 ^h 13'	17 ^h 16'	7 ^h 0'	20 ^h 9'	29 ^h 44'	5 ^h 24'	18 ^h 55'	17 ^h 57'	19 ^h 0	19 ^h 8'	17 ^h 11'	2 ^h 1'
M 12	11 15 20	20 ^h 36'25"	9 ^h 31'	21 ^h 9'	18 ^h 30'	7 ^h 46'	20 ^h 24'	29 ^h 39'	5 ^h 24'	18 ^h 54'	17 ^h 56'	19 ^h 0	19 ^h 5'	17 ^h 18'	2 ^h 4'
T 13	11 19 17	21 ^h 36'18"	21 ^h 41'	23 ^h 6'	19 ^h 43'	8 ^h 32'	20 ^h 38'	29 ^h 35'	5 ^h 24'	18 ^h 52'	17 ^h 55'	19 ^h 0	19 ^h 2'	17 ^h 25'	2 ^h 6'
W 14	11 23 13	22 ^h 36'10"	3 ^h II41	25 ^h 4'	20 ^h 57'	9 ^h 18'	20 ^h 53'	29 ^h 30'	5 ^h D24	18 ^h 51'	17 ^h 54'	18 ^h 59'	18 ^h 58'	17 ^h 31'	2 ^h 9'
T 15	11 27 10	23 ^h 35'59"	15 ^h 36'	27 ^h 2'	22 ^h 10'	10 ^h 4'	21 ^h 8'	29 ^h 25'	5 ^h 24'	18 ^h 49'	17 ^h 53'	18 ^h 59'	18 ^h 55'	17 ^h 38'	2 ^h 12'
F 16	11 31 6	24 ^h 35'46"	27 ^h 28'	29 ^h 1'	23 ^h 23'	10 ^h 50'	21 ^h 22'	29 ^h 21'	5 ^h 24'	18 ^h 48'	17 ^h 52'	18 ^h D59	18 ^h 52'	17 ^h 45'	2 ^h 14'
S 17	11 35 3	25 ^h 35'31"	9 ^h 24'	1 ^h Y 0	24 ^h 37'	11 ^h 36'	21 ^h 37'	29 ^h 16'	5 ^h 24'	18 ^h 47'	17 ^h 51'	18 ^h 59'	18 ^h 49'	17 ^h 52'	2 ^h 17'
S 18	11 38 59	26 ^h 35'13"	21 ^h 28'	3 ^h 0'	25 ^h 50'	12 ^h 21'	21 ^h 51'	29 ^h 11'	5 ^h 24'	18 ^h 45'	17 ^h 50'	19 ^h 0	18 ^h 46'	17 ^h 58'	2 ^h 19'
M 19	11 42 56	27 ^h 34'53"	3 ^h II44	4 ^h 59'	27 ^h 3'	13 ^h 7'	22 ^h 6'	29 ^h 7'	5 ^h 25'	18 ^h 44'	17 ^h 48'	19 ^h 1	18 ^h 43'	18 ^h 5'	2 ^h 21'
T 20	11 46 52	28 ^h 34'31"	16 ^h 16'	6 ^h 59'	28 ^h 16'	13 ^h 53'	22 ^h 20'	29 ^h 2'	5 ^h 25'	18 ^h 42'	17 ^h 47'	19 ^h 2	18 ^h 39'	18 ^h 12'	2 ^h 23'
W 21	11 50 49	29 ^h 34'07"	29 ^h 6'	8 ^h 58'	29 ^h 29'	14 ^h 38'	22 ^h 35'	28 ^h 57'	5 ^h 25'	18 ^h 41'	17 ^h 46'	19 ^h 2	18 ^h 36'	18 ^h 18'	2 ^h 25'
T 22	11 54 46	0 ^h Y33'41"	12 ^h II17	10 ^h 56'	0 ^h 42'	15 ^h 24'	22 ^h 49'	28 ^h 52'	5 ^h 26'	18 ^h 39'	17 ^h 45'	19 ^h R 3	18 ^h 33'	18 ^h 25'	2 ^h 27'
F 23	11 58 42	1 ^h 33'12"	25 ^h 48'	12 ^h 53'	1 ^h 55'	16 ^h 10'	23 ^h 4'	28 ^h 48'	5 ^h 26'	18 ^h 37'	17 ^h 44'	19 ^h 3	18 ^h 30'	18 ^h 32'	2 ^h 29'
S 24	12 2 39	2 ^h 32'41"	9 ^h 28'	14 ^h 48'	3 ^h 8'	16 ^h 55'	23 ^h 18'	28 ^h 43'	5 ^h 27'	18 ^h 36'	17 ^h 43'	19 ^h 2	18 ^h 27'	18 ^h 39'	2 ^h 31'
S 25	12 6 35	3 ^h 32'09"	23 ^h 43'	16 ^h 41'	4 ^h 21'	17 ^h 41'	23 ^h 32'	28 ^h 38'	5 ^h 27'	18 ^h 34'	17 ^h 42'	19 ^h 1	18 ^h 23'	18 ^h 45'	2 ^h 33'
M 26	12 10 32	4 ^h 31'34"	8 ^h II 0	18 ^h 32'	5 ^h 34'	18 ^h 26'	23 ^h 47'	28 ^h 33'	5 ^h 28'	18 ^h 33'	17 ^h 42'	18 ^h 59'	18 ^h 20'	18 ^h 52'	2 ^h 34'
T 27	12 14 28	5 ^h 30'58"	22 ^h 23'	20 ^h 20'	6 ^h 46'	19 ^h 11'	24 ^h 1'	28 ^h 29'	5 ^h 28'	18 ^h 31'	17 ^h 41'	18 ^h 57'	18 ^h 17'	18 ^h 59'	2 ^h 36'
W 28	12 18 25	6 ^h 30'20"	6 ^h 48'	22 ^h 5'	7 ^h 59'	19 ^h 57'	24 ^h 16'	28 ^h 24'	5 ^h 29'	18 ^h 30'	17 ^h 40'	18 ^h 55'	18 ^h 14'	19 ^h 5'	2 ^h 37'
T 29	12 22 21	7 ^h 29'40"	21 ^h 10'	23 ^h 47'	9 ^h 12'	20 ^h 42'	24 ^h 30'	28 ^h 19'	5 ^h 30'	18 ^h 28'	17 ^h 39'	18 ^h 53'	18 ^h 11'	19 ^h 12'	2 ^h 39'
F 30	12 26 18	8 ^h 28'58"	5 ^h 25'	25 ^h 24'	10 ^h 24'	21 ^h 27'	24 ^h 44'	28 ^h 15'	5 ^h 31'	18 ^h 26'	17 ^h 38'	18 ^h D53	18 ^h 8'	19 ^h 19'	2 ^h 40'
S 31	12 30 15	9 ^h Y28'15"	19 ^h 31'	26 ^h Y57'	11 ^h 36'	22 ^h Y13'	24 ^h Y59'	28 ^h II10	5 ^h 231	18 ^h 25'	17 ^h 37'	18 ^h Y53	18 ^h Y 4	19 ^h II26	2 ^h 41'

Delta T = 29.63 sec.

APRIL 1951

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Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	12 34 11	10 ^Y 27'30	3 [≈] 27	28 ^Y 25	12 [♂] 49	22 ^Y 58	25 [♂] 13	28 ^R 6	5 [♂] 32	18 ^R 23	17 ^R 37	18 [♂] 54	18 [♂] 1	19 ^{II} 32	2 [♂] 42
M 2	12 38 8	11 [°] 26'43	17 [°] 10	29 [°] 48	14 [°] 1	23 [°] 43	25 [°] 27	28 ^{II} 1	5 [°] 33	18 [♂] 21	17 [♂] 36	18 [°] 55	17 [°] 58	19 [°] 39	2 [°] 43
T 3	12 42 4	12 [°] 25'54	0 [♂] 42	1 [♂] 6	15 [°] 13	24 [°] 28	25 [°] 41	27 [°] 57	5 [°] 34	18 [°] 20	17 [°] 35	18 [°] 57	17 [°] 55	19 [°] 46	2 [°] 44
W 4	12 46 1	13 [°] 25'04	14 [°] 2	2 [°] 18	16 [°] 26	25 [°] 13	25 [°] 56	27 [°] 52	5 [°] 35	18 [°] 18	17 [°] 34	18 ^R 58	17 [°] 52	19 [°] 53	2 [°] 45
T 5	12 49 57	14 [°] 24'11	27 [°] 9	3 [°] 24	17 [°] 38	25 [°] 58	26 [°] 10	27 [°] 48	5 [°] 37	18 [°] 17	17 [°] 34	18 [°] 57	17 [°] 48	19 [°] 59	2 [°] 45
F 6	12 53 54	15 [°] 23'17	10 ^Y 4	4 [°] 24	18 [°] 50	26 [°] 43	26 [°] 24	27 [°] 43	5 [°] 38	18 [°] 15	17 [°] 33	18 [°] 56	17 [°] 45	20 [°] 6	2 [°] 46
S 7	12 57 50	16 [°] 22'20	22 [°] 46	5 [°] 18	20 [°] 2	27 [°] 28	26 [°] 38	27 [°] 39	5 [°] 39	18 [°] 13	17 [°] 32	18 [°] 53	17 [°] 42	20 [°] 13	2 [°] 47
S 8	13 1 47	17 [°] 21'22	5 [♂] 15	6 [°] 6	21 [°] 14	28 [°] 13	26 [°] 52	27 [°] 35	5 [°] 40	18 [°] 12	17 [°] 32	18 [°] 49	17 [°] 39	20 [°] 19	2 [°] 47
M 9	13 5 43	18 [°] 20'21	17 [°] 32	6 [°] 46	22 [°] 25	28 [°] 57	27 [°] 6	27 [°] 30	5 [°] 41	18 [°] 10	17 [°] 31	18 [°] 44	17 [°] 36	20 [°] 26	2 [°] 47
T 10	13 9 40	19 [°] 19'18	29 [°] 40	7 [°] 21	23 [°] 37	29 [°] 42	27 [°] 20	27 [°] 26	5 [°] 43	18 [°] 8	17 [°] 31	18 [°] 39	17 [°] 33	20 [°] 33	2 [°] 47
W 11	13 13 37	20 [°] 18'13	11 ^{II} 39	7 [°] 48	24 [°] 49	0 [♂] 27	27 [°] 34	27 [°] 22	5 [°] 44	18 [°] 7	17 [°] 30	18 [°] 34	17 [°] 29	20 [°] 40	2 [°] 48
T 12	13 17 33	21 [°] 17'06	23 [°] 32	8 [°] 9	26 [°] 0	1 [°] 11	27 [°] 48	27 [°] 18	5 [°] 46	18 [°] 5	17 [°] 30	18 [°] 29	17 [°] 26	20 [°] 46	2 [°] R48
F 13	13 21 30	22 [°] 15'57	5 [♂] 24	8 [°] 24	27 [°] 12	1 [°] 56	28 [°] 2	27 [°] 14	5 [°] 47	18 [°] 3	17 [°] 29	18 [°] 26	17 [°] 23	20 [°] 53	2 [°] 48
S 14	13 25 26	23 [°] 14'46	17 [°] 19	8 [°] 32	28 [°] 23	2 [°] 41	28 [°] 16	27 [°] 10	5 [°] 49	18 [°] 2	17 [°] 29	18 [°] 25	17 [°] 20	21 [°] 0	2 [°] 48
S 15	13 29 23	24 [°] 13'32	29 [°] 21	8 ^R 33	29 [°] 35	3 [°] 25	28 [°] 30	27 [°] 6	5 [°] 50	18 [°] 0	17 [°] 28	18 [°] D25	17 [°] 17	21 [°] 7	2 [°] 47
M 16	13 33 19	25 [°] 12'16	11 [♂] 35	8 [°] 29	0 ^{II} 46	4 [°] 9	28 [°] 43	27 [°] 2	5 [°] 52	17 [°] 58	17 [°] 28	18 [°] 26	17 [°] 14	21 [°] 13	2 [°] 47
T 17	13 37 16	26 [°] 10'57	24 [°] 5	8 [°] 18	1 [°] 57	4 [°] 54	28 [°] 57	26 [°] 58	5 [°] 54	17 [°] 57	17 [°] 27	18 [°] 27	17 [°] 10	21 [°] 20	2 [°] 47
W 18	13 41 12	27 [°] 9'37	6 ^{II} 57	8 [°] 2	3 [°] 8	5 [°] 38	29 [°] 11	26 [°] 54	5 [°] 56	17 [°] 55	17 [°] 27	18 [°] 29	17 [°] 7	21 [°] 27	2 [°] 46
T 19	13 45 9	28 [°] 8'14	20 [°] 13	7 [°] 41	4 [°] 19	6 [°] 22	29 [°] 24	26 [°] 51	5 [°] 57	17 [°] 54	17 [°] 27	18 ^R 29	17 [°] 4	21 [°] 33	2 [°] 46
F 20	13 49 6	29 [°] 6'49	3 [♂] 55	7 [°] 15	5 [°] 30	7 [°] 7	29 [°] 38	26 [°] 47	5 [°] 59	17 [°] 52	17 [°] 26	18 [°] 28	17 [°] 1	21 [°] 40	2 [°] 45
S 21	13 53 2	0 [♂] 5'22	18 [°] 1	6 [°] 45	6 [°] 41	7 [°] 51	29 [°] 52	26 [°] 43	6 [°] 1	17 [°] 50	17 [°] 26	18 [°] 25	16 [°] 58	21 [°] 47	2 [°] 44
S 22	13 56 59	1 [°] 3'53	2 ^{II} 29	6 [°] 11	7 [°] 51	8 [°] 35	0 ^Y 5	26 [°] 40	6 [°] 3	17 [°] 49	17 [°] 26	18 [°] 21	16 [°] 54	21 [°] 54	2 [°] 43
M 23	14 0 55	2 [°] 2'22	17 [°] 13	5 [°] 35	9 [°] 2	9 [°] 19	0 [°] 19	26 [°] 36	6 [°] 5	17 [°] 47	17 [°] 26	18 [°] 14	16 [°] 51	22 [°] 0	2 [°] 42
T 24	14 4 52	3 [°] 0'50	2 [♂] 4	4 [°] 56	10 [°] 13	10 [°] 3	0 [°] 32	26 [°] 33	6 [°] 7	17 [°] 46	17 [°] 25	18 [°] 8	16 [°] 48	22 [°] 7	2 [°] 41
W 25	14 8 48	3 [°] 59'15	16 [°] 55	4 [°] 16	11 [°] 23	10 [°] 47	0 [°] 45	26 [°] 30	6 [°] 9	17 [°] 44	17 [°] 25	18 [°] 1	16 [°] 45	22 [°] 14	2 [°] 40
T 26	14 12 45	4 [°] 57'40	1 [♂] 38	3 [°] 35	12 [°] 33	11 [°] 31	0 [°] 58	26 [°] 27	6 [°] 11	17 [°] 42	17 [°] 25	17 [°] 56	16 [°] 42	22 [°] 20	2 [°] 39
F 27	14 16 41	5 [°] 56'02	16 [°] 6	2 [°] 55	13 [°] 43	12 [°] 15	1 [°] 12	26 [°] 24	6 [°] 13	17 [°] 41	17 [°] 25	17 [°] 52	16 [°] 39	22 [°] 27	2 [°] 38
S 28	14 20 38	6 [°] 54'23	0 [♂] 16	2 [°] 15	14 [°] 54	12 [°] 59	1 [°] 25	26 [°] 21	6 [°] 15	17 [°] 39	17 [°] 25	17 [°] 50	16 [°] 35	22 [°] 34	2 [°] 36
S 29	14 24 35	7 [°] 52'43	14 [°] 7	1 [°] 37	16 [°] 4	13 [°] 42	1 [°] 38	26 [°] 18	6 [°] 18	17 [°] 38	17 [°] 25	17 [°] D50	16 [°] 32	22 [°] 41	2 [°] 35
M 30	14 28 31	8 [♂] 51'01	27 [≈] 39	1 [♂] 1	17 ^{II} 14	14 [♂] 26	1 ^Y 51	26 ^{II} 15	6 [♂] 20	17 [♂] 36	17 [°] D25	17 [♂] 51	16 [♂] 29	22 ^{II} 47	2 [♂] 33

SWISS EPHEMERIS for the year 1951

MAY 1951

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	14 32 28	9♂49'17	10♂54	0°R27	18♂23	15♂10	2♂ 4	26°R12	6♂22	17°R35	17♂25	17♂52	16♂26	22♂54	2°R32
W 2	14 36 24	10°47'32	23°53	29♂57	19°33	15°53	2°17	26♂ 9	6°25	17♂33	17°25	17°R52	16°23	23° 1	2♂30
T 3	14 40 21	11°45'45	6♂40	29°30	20°43	16°37	2°30	26° 7	6°27	17°32	17°25	17°50	16°20	23° 8	2°28
F 4	14 44 17	12°43'57	19°15	29° 8	21°52	17°20	2°42	26° 4	6°29	17°30	17°25	17°46	16°16	23°14	2°27
S 5	14 48 14	13°42'07	1♂40	28°49	23° 1	18° 4	2°55	26° 2	6°32	17°29	17°25	17°40	16°13	23°21	2°25
S 6	14 52 10	14°40'15	13°56	28°35	24°11	18°47	3° 8	25°59	6°34	17°27	17°25	17°31	16°10	23°28	2°23
M 7	14 56 7	15°38'22	26° 4	28°26	25°20	19°31	3°20	25°57	6°37	17°26	17°26	17°20	16° 7	23°34	2°21
T 8	15 0 4	16°36'27	8♂ 5	28°D21	26°29	20°14	3°33	25°55	6°40	17°25	17°26	17° 9	16° 4	23°41	2°18
W 9	15 4 0	17°34'31	20° 0	28°21	27°38	20°57	3°45	25°53	6°42	17°23	17°26	16°58	16° 0	23°48	2°16
T 10	15 7 57	18°32'32	1♂52	28°26	28°47	21°41	3°58	25°51	6°45	17°22	17°26	16°48	15°57	23°55	2°14
F 11	15 11 53	19°30'32	13°43	28°36	29°55	22°24	4°10	25°49	6°48	17°21	17°27	16°40	15°54	24° 1	2°12
S 12	15 15 50	20°28'30	25°36	28°49	1♂ 4	23° 7	4°22	25°47	6°50	17°19	17°27	16°35	15°51	24° 8	2° 9
S 13	15 19 46	21°26'27	7♂36	29° 8	2°12	23°50	4°34	25°46	6°53	17°18	17°27	16°32	15°48	24°15	2° 7
M14	15 23 43	22°24'21	19°47	29°31	3°20	24°33	4°46	25°44	6°56	17°17	17°28	16°D31	15°45	24°21	2° 4
T 15	15 27 39	23°22'14	2♂14	29°58	4°28	25°16	4°58	25°43	6°59	17°15	17°28	16°31	15°41	24°28	2° 1
W16	15 31 36	24°20'05	15° 2	0♂29	5°36	25°59	5°10	25°41	7° 1	17°14	17°28	16°R32	15°38	24°35	1°59
T 17	15 35 33	25°17'54	28°16	1° 5	6°44	26°42	5°22	25°40	7° 4	17°13	17°29	16°31	15°35	24°42	1°56
F 18	15 39 29	26°15'41	11♂58	1°44	7°52	27°24	5°34	25°39	7° 7	17°12	17°29	16°29	15°32	24°48	1°53
S 19	15 43 26	27°13'27	26° 9	2°27	8°59	28° 7	5°45	25°38	7°10	17°11	17°30	16°24	15°29	24°55	1°50
S 20	15 47 22	28°11'11	10♂47	3°13	10° 6	28°50	5°57	25°37	7°13	17° 9	17°30	16°17	15°26	25° 2	1°47
M21	15 51 19	29° 8'54	25°45	4° 3	11°14	29°32	6° 8	25°36	7°16	17° 8	17°31	16° 8	15°22	25° 9	1°44
T 22	15 55 15	0♂ 6'36	10♂47	4°57	12°21	0♂15	6°19	25°35	7°19	17° 7	17°32	15°57	15°19	25°15	1°41
W23	15 59 12	1° 4'16	26° 9	5°54	13°27	0°58	6°31	25°34	7°22	17° 6	17°32	15°47	15°16	25°22	1°38
T 24	16 3 9	2° 1'55	11♂12	6°54	14°34	1°40	6°42	25°34	7°25	17° 5	17°33	15°39	15°13	25°29	1°35
F 25	16 7 5	2°59'33	25°57	7°57	15°40	2°22	6°53	25°33	7°28	17° 4	17°34	15°32	15°10	25°35	1°31
S 26	16 11 2	3°57'11	10♂19	9° 3	16°47	3° 5	7° 4	25°33	7°32	17° 3	17°34	15°28	15° 6	25°42	1°28
S 27	16 14 58	4°54'47	24°16	10°13	17°53	3°47	7°15	25°33	7°35	17° 2	17°35	15°27	15° 3	25°49	1°25
M28	16 18 55	5°52'22	7♂48	11°25	18°59	4°29	7°25	25°32	7°38	17° 1	17°36	15°26	15° 0	25°56	1°21
T 29	16 22 51	6°49'56	20°57	12°40	20° 4	5°12	7°36	25°D32	7°41	17° 0	17°36	15°26	14°57	26° 2	1°18
W30	16 26 48	7°47'29	3♂46	13°57	21°10	5°54	7°47	25°32	7°44	16°59	17°37	15°25	14°54	26° 9	1°14
T 31	16 30 44	8♂45'02	16♂20	15♂18	22♂15	6♂36	7♂57	25♂33	7♂48	16♂58	17♂38	15♂22	14♂51	26♂16	1♂11

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JUNE 1951

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	16 34 41	9♂42'34	28♂42	16♂41	23♂20	7♂18	8♂ 7	25♂33	7♂51	16°R57	17♂39	15°R17	14♂47	26♂22	1°R 7
S 2	16 38 38	10°40'04	10♂54	18° 7	24°25	8° 0	8°18	25°33	7°54	16♂57	17°40	15♂ 8	14°44	26°29	1♂ 4
S 3	16 42 34	11°37'34	22°59	19°35	25°30	8°42	8°28	25°34	7°58	16°56	17°41	14°57	14°41	26°36	1° 0
M 4	16 46 31	12°35'03	4♂58	21° 7	26°34	9°24	8°38	25°34	8° 1	16°55	17°42	14°44	14°38	26°43	0°56
T 5	16 50 27	13°32'32	16°53	22°40	27°39	10° 6	8°48	25°35	8° 4	16°54	17°43	14°30	14°35	26°49	0°53
W 6	16 54 24	14°29'59	28°45	24°17	28°43	10°48	8°57	25°36	8° 8	16°53	17°44	14°16	14°32	26°56	0°49
T 7	16 58 20	15°27'25	10♂36	25°56	29°46	11°30	9° 7	25°36	8°11	16°53	17°45	14° 4	14°28	27° 3	0°45
F 8	17 2 17	16°24'50	22°28	27°37	0♂50	12°12	9°17	25°37	8°14	16°52	17°46	13°53	14°25	27°10	0°41
S 9	17 6 13	17°22'15	4♂23	29°22	1°53	12°53	9°26	25°38	8°18	16°51	17°47	13°46	14°22	27°16	0°38
S 10	17 10 10	18°19'38	16°24	1♂ 8	2°56	13°35	9°35	25°40	8°21	16°51	17°48	13°41	14°19	27°23	0°34
M11	17 14 7	19°17'00	28°35	2°57	3°59	14°17	9°45	25°41	8°25	16°50	17°49	13°39	14°16	27°30	0°30
T 12	17 18 3	20°14'21	11♂ 0	4°49	5° 1	14°58	9°54	25°42	8°28	16°50	17°50	13°D38	14°12	27°36	0°26
W13	17 22 0	21°11'41	23°45	6°43	6° 3	15°40	10° 2	25°44	8°32	16°49	17°51	13°R38	14° 9	27°43	0°22
T 14	17 25 56	22° 9'00	6♂54	8°39	7° 5	16°21	10°11	25°45	8°35	16°49	17°52	13°38	14° 6	27°50	0°18
F 15	17 29 53	23° 6'18	20°30	10°38	8° 7	17° 2	10°20	25°47	8°39	16°48	17°53	13°36	14° 3	27°57	0°14
S 16	17 33 49	24° 3'36	4♂35	12°39	9° 8	17°44	10°28	25°49	8°42	16°48	17°55	13°31	14° 0	28° 3	0°10
S 17	17 37 46	25° 0'52	19° 9	14°42	10° 9	18°25	10°37	25°51	8°46	16°48	17°56	13°24	13°57	28°10	0° 6
M18	17 41 42	25°58'08	4♂ 8	16°47	11° 9	19° 6	10°45	25°53	8°49	16°47	17°57	13°15	13°53	28°17	0° 2
T 19	17 45 39	26°55'23	19°22	18°53	12° 9	19°48	10°53	25°55	8°53	16°47	17°58	13° 5	13°50	28°23	29♂58
W20	17 49 36	27°52'38	4♂43	21° 1	13° 9	20°29	11° 1	25°57	8°56	16°47	18° 0	12°55	13°47	28°30	29°54
T 21	17 53 32	28°49'52	19°57	23°10	14° 9	21°10	11° 9	25°59	9° 0	16°46	18° 1	12°46	13°44	28°37	29°50
F 22	17 57 29	29°47'06	4♂55	25°20	15° 8	21°51	11°17	26° 1	9° 4	16°46	18° 2	12°39	13°41	28°44	29°46
S 23	18 1 25	0♂44'19	19°29	27°31	16° 6	22°32	11°24	26° 4	9° 7	16°46	18° 3	12°35	13°38	28°50	29°42
S 24	18 5 22	1°41'32	3♂35	29°42	17° 5	23°13	11°32	26° 6	9°11	16°46	18° 5	12°33	13°34	28°57	29°38
M25	18 9 18	2°38'45	17°14	1♂54	18° 2	23°54	11°39	26° 9	9°14	16°46	18° 6	12°D33	13°31	29° 4	29°34
T 26	18 13 15	3°35'59	0♂25	4° 5	19° 0	24°35	11°46	26°12	9°18	16°45	18° 8	12°R34	13°28	29°10	29°30
W27	18 17 11	4°33'12	13°14	6°16	19°57	25°16	11°53	26°14	9°22	16°45	18° 9	12°33	13°25	29°17	29°26
T 28	18 21 8	5°30'25	25°45	8°26	20°53	25°57	12° 0	26°17	9°25	16°45	18°10	12°31	13°22	29°24	29°22
F 29	18 25 5	6°27'38	8♂ 0	10°36	21°49	26°37	12° 6	26°20	9°29	16°D45	18°12	12°27	13°18	29°31	29°18
S 30	18 29 1	7♂24'51	20♂ 6	12♂44	22♂45	27♂18	12♂13	26♂23	9♂32	16♂45	18♂13	12♂21	13♂15	29♂37	29♂15

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SWISS EPHEMERIS for the year 1951

JULY 1951

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Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	18 32 58	8°22'04"	21° 4	14°51'	23°04'	27°15'	12°19'	26°27'	9°36'	16°45'	18°15'	12°R12	13°12'	29°11'	29°R11
M 2	18 36 54	9°19'18"	13°58'	16°57'	24°34'	28°39'	12°26'	26°30'	9°40'	16°45'	18°16'	12°H 1	13° 9	29°51'	29°R 7
T 3	18 40 51	10°16'31"	15°49'	19° 1	25°28'	29°20'	12°32'	26°33'	9°43'	16°46'	18°18'	11°49'	13° 6	29°58'	29° 3
W 4	18 44 47	11°13'45"	17°41'	21° 3	26°22'	0° 1	12°37'	26°37'	9°47'	16°46'	18°19'	11°38'	13° 3	0° 4	28°59'
T 5	18 48 44	12°10'58"	19°34'	23° 4	27°15'	0°41'	12°43'	26°40'	9°51'	16°46'	18°21'	11°28'	12°59'	0°11'	28°55'
F 6	18 52 41	13° 8'11"	19°29'	25° 3	28° 7	1°21'	12°49'	26°44'	9°54'	16°46'	18°23'	11°19'	12°56'	0°18'	28°51'
S 7	18 56 37	14° 5'25"	13°30'	27° 0	28°59'	2° 2	12°54'	26°47'	9°58'	16°46'	18°24'	11°13'	12°53'	0°24'	28°48'
S 8	19 0 34	15° 2'38"	25°37'	28°55'	29°50'	2°42'	12°59'	26°51'	10° 1	16°47'	18°26'	11°10'	12°50'	0°31'	28°44'
M 9	19 4 30	15°59'51"	7°15'54"	0°04'49"	0°10'40"	3°23'	13° 4	26°55'	10° 5	16°47'	18°27'	11°D 9	12°47'	0°38'	28°40'
T 10	19 8 27	16°57'04"	20°24'	2°40'	1°30'	4° 3	13° 9	26°59'	10° 9	16°47'	18°29'	11° 9	12°44'	0°45'	28°36'
W 11	19 12 23	17°54'16"	3°11'	4°29'	2°19'	4°43'	13°14'	27° 3	10°12'	16°48'	18°31'	11°10'	12°40'	0°51'	28°33'
T 12	19 16 20	18°51'29"	16°18'	6°17'	3° 7	5°23'	13°18'	27° 7	10°16'	16°48'	18°32'	11°R11	12°37'	0°58'	28°29'
F 13	19 20 16	19°48'42"	29°49'	8° 2	3°54'	6° 4	13°23'	27°11'	10°19'	16°48'	18°34'	11°10'	12°34'	1° 5	28°26'
S 14	19 24 13	20°45'54"	13°14'46"	9°46'	4°41'	6°44'	13°27'	27°16'	10°23'	16°49'	18°36'	11° 8	12°31'	1°11'	28°22'
S 15	19 28 10	21°43'07"	28° 9	11°27'	5°26'	7°24'	13°31'	27°20'	10°27'	16°49'	18°37'	11° 4	12°28'	1°18'	28°19'
M 16	19 32 6	22°40'20"	12°15'54"	13° 7	6°11'	8° 4	13°34'	27°24'	10°30'	16°50'	18°39'	10°58'	12°24'	1°25'	28°15'
T 17	19 36 3	23°37'33"	27°57'	14°44'	6°55'	8°44'	13°38'	27°29'	10°34'	16°51'	18°41'	10°51'	12°21'	1°32'	28°12'
W 18	19 39 59	24°34'47"	13°3' 9	16°20'	7°38'	9°24'	13°41'	27°33'	10°37'	16°51'	18°42'	10°45'	12°18'	1°38'	28° 9
T 19	19 43 56	25°32'00"	28°19'	17°54'	8°20'	10° 4	13°45'	27°38'	10°41'	16°52'	18°44'	10°39'	12°15'	1°45'	28° 5
F 20	19 47 52	26°29'14"	13°11'17"	19°26'	9° 1	10°43'	13°48'	27°43'	10°44'	16°52'	18°46'	10°34'	12°12'	1°52'	28° 2
S 21	19 51 49	27°26'29"	27°55'	20°55'	9°41'	11°23'	13°51'	27°48'	10°48'	16°53'	18°48'	10°32'	12° 9	1°58'	27°59'
S 22	19 55 45	28°23'44"	12°11' 8	22°23'	10°20'	12° 3	13°53'	27°52'	10°51'	16°54'	18°49'	10°D31	12° 5	2° 5	27°56'
M 23	19 59 42	29°21'00"	25°53'	23°49'	10°58'	12°43'	13°56'	27°57'	10°55'	16°55'	18°51'	10°32'	12° 2	2°12'	27°53'
T 24	20 3 39	0°18'16"	9°11'11"	25°13'	11°34'	13°22'	13°58'	28° 2	10°58'	16°55'	18°53'	10°33'	11°59'	2°19'	27°50'
W 25	20 7 35	1°15'34"	22° 4	26°34'	12°10'	14° 2	14° 0	28° 7	11° 2	16°56'	18°55'	10°35'	11°56'	2°25'	27°47'
T 26	20 11 32	2°12'53"	4°13'37"	27°54'	12°44'	14°42'	14° 2	28°13'	11° 5	16°57'	18°56'	10°R35	11°53'	2°32'	27°44'
F 27	20 15 28	3°10'12"	16°52'	29°11'	13°17'	15°21'	14° 4	28°18'	11° 9	16°58'	18°58'	10°34'	11°50'	2°39'	27°41'
S 28	20 19 25	4° 7'33"	28°56'	0°10'27"	13°48'	16° 1	14° 5	28°23'	11°12'	16°59'	19° 0	10°31'	11°46'	2°45'	27°38'
S 29	20 23 21	5° 4'54"	10°11'52"	1°40'	14°18'	16°40'	14° 7	28°28'	11°15'	17° 0	19° 2	10°27'	11°43'	2°52'	27°35'
M 30	20 27 18	6° 2'17"	22°44'	2°50'	14°47'	17°20'	14° 8	28°34'	11°19'	17° 1	19° 4	10°22'	11°40'	2°59'	27°33'
T 31	20 31 14	6°15'40"	4°13'36"	3°10'59"	15°10'14"	17°55'59"	14°10' 9	28°10'39"	11°22'22"	17°15' 2	19°10' 6	10°11'16"	11°11'37"	3°10' 6	27°10'30"

Delta T = 29.77 sec.

AUGUST 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	20 35 11	7°05'57"	16°29'	5°10' 4	15°10'39"	18°39'	14°10'10"	28°10'45"	11°25'25"	17°15' 3	19°10' 7	10°R10	11°11'34"	3°12'12"	27°R28
T 2	20 39 8	8°54'30"	28°26'	6° 8	16° 3	19°18'	14°10'	28°50'	11°29'	17° 4	19° 9	10°H 5	11°30'	3°19'	27°R25
F 3	20 43 4	9°51'56"	10°02'29"	7° 8	16°25'	19°57'	14°11'	28°56'	11°32'	17° 5	19°11'	10° 1	11°27'	3°26'	27°23
S 4	20 47 1	10°49'23"	22°40'	8° 6	16°45'	20°37'	14°R11	29° 2	11°35'	17° 6	19°13'	9°58'	11°24'	3°32'	27°20
S 5	20 50 57	11°46'51"	5°10' 0	9° 1	17° 4	21°16'	14°11'	29° 8	11°39'	17° 7	19°15'	9°D57	11°21'	3°39'	27°18
M 6	20 54 54	12°44'20"	17°31'	9°52'	17°21'	21°55'	14°10'	29°13'	11°42'	17° 8	19°17'	9°57'	11°18'	3°46'	27°16
T 7	20 58 50	13°41'50"	0°14'14"	10°41'	17°35'	22°34'	14°10'	29°19'	11°45'	17° 9	19°18'	9°58'	11°15'	3°53'	27°14
W 8	21 2 47	14°39'20"	13°11'	11°26'	17°48'	23°13'	14° 9	29°25'	11°48'	17°11'	19°20'	10° 0	11°11'	3°59'	27°12
T 9	21 6 43	15°36'51"	26°25'	12° 7	17°59'	23°52'	14° 9	29°31'	11°51'	17°12'	19°22'	10° 1	11° 8	4° 6	27°10
F 10	21 10 40	16°34'23"	9°10'58"	12°45'	18° 7	24°31'	14° 8	29°37'	11°55'	17°13'	19°24'	10° 2	11° 5	4°13'	27° 8
S 11	21 14 37	17°31'56"	23°49'	13°19'	18°14'	25°10'	14° 6	29°43'	11°58'	17°15'	19°26'	10°R 2	11° 2	4°19'	27° 6
S 12	21 18 33	18°29'30"	8°11' 1	13°49'	18°18'	25°49'	14° 5	29°49'	12° 1	17°16'	19°28'	10° 1	10°59'	4°26'	27° 5
M 13	21 22 30	19°27'05"	22°29'	14°14'	18°R20	26°28'	14° 3	29°56'	12° 4	17°17'	19°30'	9°59'	10°56'	4°33'	27° 3
T 14	21 26 26	20°24'41"	7°13'11"	14°35'	18°20'	27° 7	14° 1	0°15' 2	12° 7	17°19'	19°31'	9°57'	10°52'	4°40'	27° 1
W 15	21 30 23	21°22'17"	22° 1	14°51'	18°17'	27°46'	13°59'	0° 8	12°10'	17°20'	19°33'	9°54'	10°49'	4°46'	27° 0
T 16	21 34 19	22°19'55"	6°11'55"	15° 2	18°12'	28°25'	13°57'	0°15'	12°13'	17°21'	19°35'	9°52'	10°46'	4°53'	26°59
F 17	21 38 16	23°17'34"	21°36'	15° 8	18° 4	29° 4	13°55'	0°21'	12°16'	17°23'	19°37'	9°51'	10°43'	5° 0	26°57
S 18	21 42 12	24°15'14"	6°11' 5	15°R 9	17°54'	29°42'	13°52'	0°27'	12°19'	17°24'	19°39'	9°D50	10°40'	5° 6	26°56
S 19	21 46 9	25°12'55"	20°14'	15° 4	17°42'	0°02'21"	13°49'	0°34'	12°22'	17°26'	19°41'	9°50'	10°36'	5°13'	26°55
M 20	21 50 6	26°10'38"	3°10'59"	14°53'	17°27'	1° 0	13°46'	0°40'	12°24'	17°27'	19°43'	9°51'	10°33'	5°20'	26°54
T 21	21 54 2	27° 8'23"	17°20'	14°36'	17°10'	1°38'	13°43'	0°47'	12°27'	17°29'	19°44'	9°52'	10°30'	5°27'	26°53
W 22	21 57 59	28° 6'09"	0°18'18"	14°14'	16°51'	2°17'	13°40'	0°54'	12°30'	17°31'	19°46'	9°53'	10°27'	5°33'	26°52
T 23	22 1 55	29° 3'56"	12°54'	13°46'	16°29'	2°56'	13°36'	1° 0	12°33'	17°32'	19°48'	9°54'	10°24'	5°40'	26°51
F 24	22 5 52	0°10'14"	25°13'	13°13'	16° 6	3°34'	13°33'	1° 7	12°36'	17°34'	19°50'	9°R55	10°21'	5°47'	26°50
S 25	22 9 48	0°59'37"	7°11'18"	12°34'	15°40'	4°13'	13°29'	1°14'	12°38'	17°35'	19°52'	9°55'	10°17'	5°53'	26°50
S 26	22 13 45	1°57'30"	19°15'	11°51'	15°12'	4°51'	13°25'	1°20'	12°41'	17°37'	19°54'	9°54'	10°14'	6° 0	26°49
M 27	22 17 41	2°55'25"	1° 7	11° 3	14°43'	5°29'	13°20'	1°27'	12°44'	17°39'	19°56'	9°53'	10°11'	6° 7	26°49
T 28	22 21 38	3°53'22"	12°59'	10°12'	14°12'	6° 8	13°16'	1°34'	12°46'	17°41'	19°57'	9°53'	10° 8	6°13'	26°48
W 29	22 25 35	4°51'20"	24°55'	9°18'	13°40'	6°46'	13°11'	1°41'	12°49'	17°42'	19°59'	9°52'	10° 5	6°20'	26°48
T 30	22 29 31	5°49'20"	6°10'58"	8°22'	13° 6	7°24'	13° 7	1°48'	12°51'	17°44'	20° 1	9°51'	10° 2	6°27'	26°48
F 31	22 33 28	6°10'47'22"	19°10'10"	7°10'26"	12°10'31"	8°10' 3	13°10' 2	1°15'55"	12°55'44"	17°15'46"	20°10' 3	9°11'51"	9°11'58"	6°10'34"	26°10'48"

Delta T = 29.80 sec.

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SWISS EPHEMERIS for the year 1951

SEPTEMBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	22 37 24	7 ^h 45'25"	1 ^h 34'	6°R30	11°R55	8 ^h 041	12°R56	2 ^h 2	12 ^h 56	17 ^h 48	20 ^h 05	9°R51	9 ^h 55	6 ^h 40	26°D48
S 2	22 41 21	8°43'30"	14°10'	5 ^h 37	11 ^h 19	9°19	12 ^h 51	2° 9	12°59	17°49	20° 6	9°D51	9°52	6°47	26°48
M 3	22 45 17	9°41'37"	27° 1	4°46	10°42	9°57	12°46	2°16	13° 1	17°51	20° 8	9°R51	9°49	6°54	26°48
T 4	22 49 14	10°39'45"	10 ^h 5	3°59	10° 5	10°36	12°40	2°23	13° 3	17°53	20°10	9 ^h 51	9°46	7° 0	26°48
W 5	22 53 10	11°37'55"	23°22'	3°17	9°28	11°14	12°34	2°30	13° 5	17°55	20°12	9°51	9°42	7° 7	26°49
T 6	22 57 7	12°36'06"	6 ^h 54	2°42	8°51	11°52	12°28	2°37	13° 8	17°57	20°13	9°50	9°39	7°14	26°49
F 7	23 1 4	13°34'19"	20°38'	2°14	8°14	12°30	12°22	2°44	13°10	17°59	20°15	9°50	9°36	7°21	26°49
S 8	23 5 0	14°32'34"	4 ^h 33	1°54	7°39	13° 8	12°16	2°51	13°12	18° 1	20°17	9°50	9°33	7°27	26°50
S 9	23 8 57	15°30'50"	18°40'	1°42	7° 4	13°46	12°10	2°58	13°14	18° 3	20°19	9°D50	9°30	7°34	26°51
M10	23 12 53	16°29'07"	2 ^h 55	1°D39	6°31	14°24	12° 3	3° 6	13°16	18° 5	20°20	9°50	9°27	7°41	26°51
T 11	23 16 50	17°27'26"	17°17'	1°45	5°59	15° 1	11°57	3°13	13°18	18° 7	20°22	9°51	9°23	7°47	26°52
W12	23 20 46	18°25'47"	1 ^h 41	2° 0	5°28	15°39	11°50	3°20	13°20	18° 9	20°24	9°51	9°20	7°54	26°53
T 13	23 24 43	19°24'09"	16° 5	2°24	5° 0	16°17	11°43	3°27	13°22	18°11	20°25	9°52	9°17	8° 1	26°54
F 14	23 28 39	20°22'32"	0 ^h 23	2°57	4°33	16°55	11°36	3°35	13°24	18°13	20°27	9°52	9°14	8° 8	26°55
S 15	23 32 36	21°20'58"	14°31'	3°38	4° 8	17°33	11°29	3°42	13°26	18°15	20°29	9°R53	9°11	8°14	26°57
S 16	23 36 33	22°19'25"	28°24'	4°28	3°45	18°10	11°22	3°49	13°28	18°17	20°30	9°52	9° 7	8°21	26°58
M17	23 40 29	23°17'54"	12 ^h 0	5°26	3°25	18°48	11°15	3°57	13°30	18°19	20°32	9°51	9° 4	8°28	26°59
T 18	23 44 26	24°16'25"	25°17'	6°30	3° 6	19°25	11° 8	4° 4	13°31	18°21	20°34	9°49	9° 1	8°34	27° 1
W19	23 48 22	25°14'58"	8 ^h 13	7°42	2°50	20° 3	11° 0	4°11	13°33	18°23	20°35	9°47	8°58	8°41	27° 2
T 20	23 52 19	26°13'34"	20°50'	9° 0	2°37	20°41	10°53	4°19	13°35	18°25	20°37	9°45	8°55	8°48	27° 4
F 21	23 56 15	27°12'11"	3 ^h 10	10°23	2°26	21°18	10°45	4°26	13°36	18°27	20°38	9°43	8°52	8°54	27° 5
S 22	0 0 12	28°10'51"	15°17'	11°50	2°17	21°56	10°38	4°33	13°38	18°29	20°40	9°41	8°48	9° 1	27° 7
S 23	0 4 8	29° 9'33"	27°14'	13°23	2°11	22°33	10°30	4°41	13°39	18°31	20°42	9°D41	8°45	9° 8	27° 9
M24	0 8 5	0 ^h 8'17"	9 ^h 5	14°58	2° 8	23°10	10°22	4°48	13°41	18°33	20°43	9°41	8°42	9°15	27°11
T 25	0 12 2	1° 7'04"	20°59	16°37	2°D 6	23°48	10°14	4°56	13°42	18°36	20°45	9°42	8°39	9°21	27°13
W26	0 15 58	2° 5'53"	2 ^h 56	18°18	2° 7	24°25	10° 6	5° 3	13°43	18°38	20°46	9°44	8°36	9°28	27°15
T 27	0 19 55	3° 4'44"	15° 2	20° 1	2°11	25° 2	9°58	5°10	13°45	18°40	20°48	9°45	8°33	9°35	27°18
F 28	0 23 51	4° 3'37"	27°21'	21°46	2°16	25°40	9°50	5°18	13°46	18°42	20°49	9°47	8°29	9°41	27°20
S 29	0 27 48	5° 2'32"	9 ^h 56	23°32	2°24	26°17	9°42	5°25	13°47	18°44	20°50	9°R47	8°26	9°48	27°22
S 30	0 31 44	6 ^h 1'29"	22 ^h 49	25 ^h 20	2 ^h 35	26 ^h 54	9 ^h 34	5 ^h 33	13 ^h 48	18 ^h 46	20 ^h 52	9 ^h 47	8 ^h 23	9 ^h 55	27 ^h 25

Delta T = 29.84 sec.

OCTOBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	0 35 41	7 ^h 45'02"	6 ^h 0	27 ^h 7	2 ^h 47	27 ^h 031	9°R26	5 ^h 40	13 ^h 49	18 ^h 49	20 ^h 53	9°R45	8 ^h 20	10 ^h 5	27 ^h 27
T 2	0 39 37	7°59'30"	19°29'	28°55	3° 1	28° 8	9°Y18	5°47	13°50	18°51	20°55	9 ^h 41	8°17	10° 8	27°30
W 3	0 43 34	8°58'34"	3 ^h 14	0 ^h 43	3°18	28°45	9°10	5°55	13°51	18°53	20°56	9°37	8°13	10°15	27°32
T 4	0 47 30	9°57'39"	17°12'	2°31	3°36	29°23	9° 2	6° 2	13°52	18°55	20°57	9°32	8°10	10°22	27°35
F 5	0 51 27	10°56'46"	1 ^h 18	4°19	3°56	29°59	8°54	6°10	13°53	18°57	20°59	9°28	8° 7	10°28	27°38
S 6	0 55 24	11°55'56"	15°29'	6° 7	4°18	0 ^h 36	8°46	6°17	13°54	19° 0	21° 0	9°24	8° 4	10°35	27°41
S 7	0 59 20	12°55'07"	29°42'	7°54	4°42	1°13	8°38	6°24	13°55	19° 2	21° 1	9°22	8° 1	10°42	27°44
M 8	1 3 17	13°54'19"	13 ^h 54	9°40	5° 8	1°50	8°30	6°32	13°55	19° 4	21° 2	9°D22	7°58	10°48	27°47
T 9	1 7 13	14°53'34"	28° 3	11°26	5°35	2°27	8°22	6°39	13°56	19° 6	21° 4	9°22	7°54	10°55	27°50
W10	1 11 10	15°52'50"	12 ^h 5	13°12	6° 4	3° 4	8°14	6°47	13°57	19° 9	21° 5	9°23	7°51	11° 2	27°54
T 11	1 15 6	16°52'08"	26° 5	14°56	6°34	3°41	8° 6	6°54	13°57	19°11	21° 6	9°25	7°48	11° 8	27°57
F 12	1 19 3	17°51'28"	9 ^h 55	16°40	7° 6	4°17	7°58	7° 1	13°58	19°13	21° 7	9°R25	7°45	11°15	28° 0
S 13	1 23 0	18°50'49"	23°36'	18°24	7°40	4°54	7°50	7° 9	13°58	19°15	21° 8	9°25	7°42	11°22	28° 4
S 14	1 26 56	19°50'12"	7 ^h 6	20° 7	8°14	5°31	7°43	7°16	13°58	19°18	21°10	9°22	7°39	11°29	28° 7
M15	1 30 53	20°49'38"	20°24'	21°49	8°50	6° 7	7°35	7°23	13°59	19°20	21°11	9°17	7°35	11°35	28°11
T 16	1 34 49	21°49'05"	3 ^h 27	23°30	9°28	6°44	7°27	7°30	13°59	19°22	21°12	9°10	7°32	11°42	28°14
W17	1 38 46	22°48'34"	16°14'	25°11	10° 6	7°20	7°20	7°38	13°59	19°24	21°13	9° 2	7°29	11°49	28°18
T 18	1 42 42	23°48'06"	28°47'	26°51	10°46	7°57	7°13	7°45	13°59	19°26	21°14	8°54	7°26	11°55	28°22
F 19	1 46 39	24°47'40"	11 ^h 4	28°30	11°27	8°33	7° 5	7°52	14° 0	19°29	21°15	8°47	7°23	12° 2	28°26
S 20	1 50 35	25°47'16"	23°10'	0 ^h 9	12°10	9° 9	6°58	7°59	14° 0	19°31	21°16	8°40	7°19	12° 9	28°30
S 21	1 54 32	26°46'55"	5 ^h 6	1°47	12°53	9°46	6°51	8° 7	14°R 0	19°33	21°17	8°35	7°16	12°15	28°34
M22	1 58 28	27°46'35"	16°58'	3°24	13°37	10°22	6°44	8°14	14° 0	19°35	21°18	8°33	7°13	12°22	28°38
T 23	2 2 25	28°46'18"	28°48'	5° 1	14°22	10°58	6°37	8°21	14° 0	19°38	21°19	8°D32	7°10	12°29	28°42
W24	2 6 22	29°46'03"	10 ^h 44	6°37	15° 9	11°34	6°30	8°28	13°59	19°40	21°19	8°33	7° 7	12°36	28°46
T 25	2 10 18	0 ^h 45'50"	22°49	8°13	15°56	12°11	6°23	8°35	13°59	19°42	21°20	8°34	7° 4	12°42	28°51
F 26	2 14 15	1°45'40"	5 ^h 10	9°48	16°44	12°47	6°17	8°42	13°59	19°44	21°21	8°R35	7° 0	12°49	28°55
S 27	2 18 11	2°45'32"	17°50'	11°23	17°33	13°23	6°10	8°49	13°59	19°46	21°22	8°34	6°57	12°56	28°59
S 28	2 22 8	3°45'25"	0 ^h 52	12°57	18°23	13°59	6° 4	8°56	13°58	19°49	21°23	8°32	6°54	13° 2	29° 4
M29	2 26 4	4°45'21"	14°19'	14°31	19°13	14°35	5°58	9° 3	13°58	19°51	21°23	8°27	6°51	13° 9	29° 8
T 30	2 30 1	5°45'19"	28° 9	16° 4	20° 5	15°11	5°52	9°10	13°57	19°53	21°24	8°20	6°48	13°16	29°13
W31	2 33 57	6 ^h 45'19"	12 ^h 20	17 ^h 36	20 ^h 57	15 ^h 47	5 ^h 46	9 ^h 17	13 ^h 57	19 ^h 55	21 ^h 25	8 ^h 11	6 ^h 44	13 ^h 22	29 ^h 17

Delta T = 29.87 sec.

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SWISS EPHEMERIS for the year 1951

NOVEMBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	2 37 54	7♏45'21	26♏46	19♏9	21♏49	16♏22	5°R40	9♏24	13°R56	19♏57	21♏26	8°R1	6♏41	13♏29	29♏22
F 2	2 41 51	8°45'25	11♏21	20°40	22°43	16°58	5°Y35	9°30	13♏56	19°59	21°26	7♏52	6°38	13°36	29°27
S 3	2 45 47	9°45'30	25°57	22°12	23°37	17°34	5°29	9°37	13°55	20°2	21°27	7°43	6°35	13°43	29°32
S 4	2 49 44	10°45'37	10♏29	23°43	24°32	18°10	5°24	9°44	13°54	20°4	21°27	7°37	6°32	13°49	29°37
M 5	2 53 40	11°45'46	24°50	25°13	25°27	18°45	5°19	9°51	13°54	20°6	21°28	7°34	6°29	13°56	29°41
T 6	2 57 37	12°45'56	8♏59	26°43	26°23	19°21	5°14	9°57	13°53	20°8	21°28	7°D33	6°25	14°3	29°46
W 7	3 1 33	13°46'07	22°54	28°13	27°20	19°56	5°10	10°4	13°52	20°10	21°29	7°33	6°22	14°9	29°51
T 8	3 5 30	14°46'20	6♏36	29°42	28°17	20°32	5°5	10°10	13°51	20°12	21°29	7°R33	6°19	14°16	29°57
F 9	3 9 26	15°46'35	20°5	1♏10	29°14	21°7	5°1	10°17	13°50	20°14	21°30	7°33	6°16	14°23	0♏2
S 10	3 13 23	16°46'51	3°Y22	2°38	0♏13	21°42	4°57	10°23	13°49	20°16	21°30	7°30	6°13	14°29	0°7
S 11	3 17 20	17°47'08	16°29	4°6	1°11	22°18	4°53	10°30	13°48	20°18	21°31	7°24	6°10	14°36	0°12
M 12	3 21 16	18°47'27	29°24	5°33	2°11	22°53	4°49	10°36	13°47	20°20	21°31	7°16	6°6	14°43	0°17
T 13	3 25 13	19°47'48	12♏8	6°59	3°10	23°28	4°45	10°43	13°46	20°22	21°31	7°5	6°3	14°49	0°23
W 14	3 29 9	20°48'10	24°42	8°25	4°10	24°3	4°42	10°49	13°44	20°24	21°32	6°52	6°0	14°56	0°28
T 15	3 33 6	21°48'34	7♏4	9°51	5°11	24°38	4°39	10°55	13°43	20°26	21°32	6°38	5°57	15°3	0°33
F 16	3 37 2	22°49'00	19°15	11°15	6°12	25°13	4°36	11°1	13°42	20°28	21°32	6°25	5°54	15°10	0°39
S 17	3 40 59	23°49'27	1♏16	12°39	7°13	25°48	4°33	11°7	13°40	20°30	21°32	6°13	5°50	15°16	0°44
S 18	3 44 56	24°49'56	13°10	14°2	8°15	26°23	4°30	11°13	13°39	20°32	21°33	6°4	5°47	15°23	0°50
M 19	3 48 52	25°50'27	24°59	15°24	9°17	26°58	4°28	11°19	13°37	20°34	21°33	5°58	5°44	15°30	0°55
T 20	3 52 49	26°51'00	6♏48	16°44	10°20	27°33	4°26	11°25	13°36	20°36	21°33	5°54	5°41	15°36	1°1
W 21	3 56 45	27°51'34	18°41	18°4	11°23	28°7	4°24	11°31	13°34	20°38	21°33	5°52	5°38	15°43	1°7
T 22	4 0 42	28°52'10	0♏43	19°22	12°26	28°42	4°22	11°37	13°33	20°40	21°33	5°52	5°35	15°50	1°12
F 23	4 4 38	29°52'48	13°0	20°38	13°30	29°17	4°20	11°43	13°31	20°42	21°33	5°52	5°31	15°56	1°18
S 24	4 8 35	0♏53'27	25°37	21°53	14°34	29°51	4°19	11°49	13°30	20°43	21°R33	5°51	5°28	16°3	1°24
S 25	4 12 31	1°54'08	8♏40	23°6	15°38	0♏26	4°18	11°54	13°28	20°45	21°33	5°48	5°25	16°10	1°29
M 26	4 16 28	2°54'51	22°10	24°16	16°43	1°0	4°17	12°0	13°26	20°47	21°33	5°42	5°22	16°16	1°35
T 27	4 20 24	3°55'35	6♏10	25°24	17°48	1°34	4°16	12°5	13°24	20°49	21°33	5°33	5°19	16°23	1°41
W 28	4 24 21	4°56'21	20°35	26°28	18°53	2°8	4°15	12°11	13°22	20°50	21°33	5°22	5°16	16°30	1°47
T 29	4 28 18	5°57'08	5♏22	27°29	19°58	2°43	4°15	12°16	13°21	20°52	21°33	5°10	5°12	16°37	1°53
F 30	4 32 14	6♏57'57	20♏22	28♏26	21♏4	3♏17	4°D15	12♏21	13♏19	20♏54	21♏32	4♏58	5♏9	16♏43	1♏59

Delta T = 29.90 sec.

DECEMBER 1951

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 36 11	7♏58'47	5♏24	29♏19	22♏10	3♏51	4°Y15	12♏27	13°R17	20♏56	21°R32	4°R48	5♏6	16♏50	2♏5
S 2	4 40 7	8°59'38	20°20	0♏6	23°17	4°25	4°15	12°32	13♏15	20°57	21♏32	4♏40	5°3	16°57	2°11
M 3	4 44 4	10°0'29	5♏1	0°48	24°23	4°58	4°16	12°37	13°13	20°59	21°32	4°35	5°0	17°3	2°17
T 4	4 48 0	11°1'22	19°23	1°22	25°30	5°32	4°16	12°42	13°11	21°0	21°32	4°33	4°56	17°10	2°23
W 5	4 51 57	12°2'15	3♏24	1°50	26°37	6°6	4°17	12°47	13°9	21°2	21°31	4°32	4°53	17°17	2°29
T 6	4 55 54	13°3'09	17°3	2°9	27°44	6°39	4°18	12°52	13°6	21°4	21°31	4°32	4°50	17°23	2°35
F 7	4 59 50	14°4'03	0°Y23	2°R19	28°51	7°13	4°20	12°57	13°4	21°5	21°30	4°31	4°47	17°30	2°41
S 8	5 3 47	15°4'59	13°27	2°19	29°59	7°46	4°21	13°1	13°2	21°7	21°30	4°28	4°44	17°37	2°47
S 9	5 7 43	16°5'55	26°16	2°8	1♏7	8°20	4°23	13°6	13°0	21°8	21°30	4°23	4°41	17°43	2°53
M 10	5 11 40	17°6'52	8♏53	1°46	2°15	8°53	4°25	13°11	12°58	21°9	21°29	4°14	4°37	17°50	3°0
T 11	5 15 36	18°7'49	21°20	1°13	3°23	9°26	4°27	13°15	12°55	21°11	21°29	4°3	4°34	17°57	3°6
W 12	5 19 33	19°8'48	3♏37	0°28	4°32	9°59	4°29	13°19	12°53	21°12	21°28	3°50	4°31	18°3	3°12
T 13	5 23 29	20°9'47	15°47	29♏33	5°40	10°32	4°32	13°24	12°51	21°14	21°28	3°35	4°28	18°10	3°18
F 14	5 27 26	21°10'47	27°49	28°27	6°49	11°5	4°35	13°28	12°48	21°15	21°27	3°22	4°25	18°17	3°24
S 15	5 31 23	22°11'48	9♏45	27°14	7°58	11°38	4°38	13°32	12°46	21°16	21°27	3°10	4°22	18°24	3°31
S 16	5 35 19	23°12'49	21°36	25°55	9°7	12°11	4°41	13°36	12°44	21°18	21°26	3°0	4°18	18°30	3°37
M 17	5 39 16	24°13'52	3♏24	24°33	10°17	12°43	4°44	13°40	12°41	21°19	21°25	2°53	4°15	18°37	3°43
T 18	5 43 12	25°14'55	15°13	23°10	11°26	13°16	4°48	13°44	12°39	21°20	21°25	2°49	4°12	18°44	3°49
W 19	5 47 9	26°15'59	27°5	21°49	12°36	13°48	4°51	13°48	12°36	21°21	21°24	2°47	4°9	18°50	3°56
T 20	5 51 5	27°17'04	9♏5	20°34	13°45	14°21	4°55	13°51	12°34	21°22	21°23	2°D47	4°6	18°57	4°2
F 21	5 55 2	28°18'09	21°19	19°25	14°55	14°53	4°59	13°55	12°32	21°24	21°22	2°48	4°2	19°4	4°8
S 22	5 58 58	29°19'15	3♏52	18°25	16°5	15°25	5°4	13°59	12°29	21°25	21°22	2°R48	3°59	19°10	4°15
S 23	6 2 55	0♏20'22	16°48	17°35	17°16	15°57	5°8	14°2	12°26	21°26	21°21	2°46	3°56	19°17	4°21
M 24	6 6 52	1°21'30	0♏12	16°56	18°26	16°29	5°13	14°5	12°24	21°27	21°20	2°43	3°53	19°24	4°27
T 25	6 10 48	2°22'39	14°6	16°27	19°36	17°1	5°18	14°9	12°21	21°28	21°19	2°37	3°50	19°30	4°33
W 26	6 14 45	3°23'48	28°30	16°9	20°47	17°32	5°23	14°12	12°19	21°29	21°18	2°29	3°47	19°37	4°40
T 27	6 18 41	4°24'58	13♏20	16°D2	21°58	18°4	5°28	14°15	12°16	21°30	21°18	2°19	3°43	19°44	4°46
F 28	6 22 38	5°26'08	28°29	16°4	23°9	18°35	5°33	14°18	12°14	21°31	21°17	2°10	3°40	19°50	4°52
S 29	6 26 34	6°27'19	13♏45	16°15	24°20	19°6	5°39	14°21	12°11	21°32	21°16	2°2	3°37	19°57	4°59
S 30	6 30 31	7°28'29	29°0	16°34	25°31	19°38	5°45	14°23	12°9	21°32	21°15	1°55	3°34	20°4	5°5
M 31	6 34 28	8♏29'40	14♏1	17♏1	26♏42	20♏9	5°Y51	14♏26	12♏6	21♏33	21♏14	1♏52	3♏31	20♏11	5♏11

Delta T = 29.94 sec.

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