

# SWISS EPHEMERIS for the year 2030

## JANUARY 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	6 42 47	10°36'09	28°12'25	9°R27	19°R33	14°42	20°134	18°R24	15°R33	8°V23	9°10	25°31	24°49	14°11	8°R 2
W 2	6 46 44	11°37'20	13°3	8°3	18°359	15°29	20°45	18°22	15°31	8°23	9°12	25°32	24°45	14°17	8°R 1
T 3	6 50 40	12°38'31	27°38	6°49	18°25	16°16	20°55	18°20	15°29	8°24	9°13	25°R32	24°42	14°24	8° 0
F 4	6 54 37	13°39'41	12°3	5°37	17°49	17° 4	21° 6	18°18	15°27	8°24	9°15	25°31	24°39	14°31	7°59
S 5	6 58 33	14°40'52	26°19	4°33	17°13	17°51	21°16	18°17	15°25	8°25	9°17	25°30	24°36	14°37	7°58
S 6	7 2 30	15°42'03	10°14	3°37	16°36	18°38	21°26	18°15	15°23	8°25	9°18	25°27	24°33	14°44	7°57
M 7	7 6 26	16°43'13	23°47	2°51	16° 0	19°25	21°36	18°14	15°21	8°26	9°20	25°24	24°29	14°51	7°57
T 8	7 10 23	17°44'23	6°56	2°15	15°23	20°13	21°46	18°12	15°18	8°27	9°22	25°20	24°26	14°57	7°56
W 9	7 14 20	18°45'33	19°43	1°49	14°47	21° 0	21°56	18°11	15°16	8°27	9°24	25°17	24°23	15° 4	7°56
T 10	7 18 16	19°46'42	2°V10	1°33	14°11	21°47	22° 6	18°10	15°14	8°28	9°25	25°15	24°20	15°11	7°55
F 11	7 22 13	20°47'51	14°21	1°D26	13°37	22°34	22°15	18° 9	15°13	8°29	9°27	25°14	24°17	15°17	7°55
S 12	7 26 9	21°48'59	26°19	1°29	13° 3	23°22	22°25	18° 8	15°11	8°30	9°29	25°D13	24°14	15°24	7°54
S 13	7 30 6	22°50'06	8°10	1°39	12°31	24° 9	22°34	18° 8	15° 9	8°30	9°31	25°14	24°10	15°31	7°54
M14	7 34 2	23°51'13	20° 0	1°57	12° 0	24°56	22°44	18° 7	15° 7	8°31	9°33	25°16	24° 7	15°37	7°54
T 15	7 37 59	24°52'20	1°II52	2°22	11°31	25°43	22°53	18° 6	15° 5	8°32	9°34	25°18	24° 4	15°44	7°54
W16	7 41 55	25°53'26	13°51	2°53	11° 4	26°31	23° 2	18° 6	15° 3	8°33	9°36	25°20	24° 1	15°51	7°54
T 17	7 45 52	26°54'31	26° 1	3°30	10°39	27°18	23°11	18° 6	15° 2	8°34	9°38	25°R20	23°58	15°57	7°D54
F 18	7 49 49	27°55'35	8°25	4°12	10°16	28° 5	23°20	18° 6	15° 0	8°35	9°40	25°19	23°55	16° 4	7°54
S 19	7 53 45	28°56'39	21° 5	4°58	9°55	28°52	23°28	18°D 5	14°58	8°36	9°42	25°17	23°51	16°11	7°54
S 20	7 57 42	29°57'42	4°1	5°49	9°37	29°39	23°37	18° 5	14°57	8°37	9°44	25°13	23°48	16°17	7°54
M21	8 1 38	0°58'45	17°13	6°43	9°21	0°H27	23°45	18° 6	14°55	8°38	9°45	25° 7	23°45	16°24	7°54
T 22	8 5 35	1°59'47	0°140	7°41	9° 8	1°14	23°54	18° 6	14°54	8°39	9°47	25° 1	23°42	16°31	7°54
W23	8 9 31	3° 0'48	14°19	8°42	8°57	2° 1	24° 2	18° 6	14°52	8°41	9°49	24°54	23°39	16°37	7°55
T 24	8 13 28	4° 1'49	28° 8	9°45	8°48	2°48	24°10	18° 7	14°51	8°42	9°51	24°49	23°35	16°44	7°55
F 25	8 17 24	5° 2'50	12°5	10°51	8°42	3°35	24°18	18° 7	14°49	8°43	9°53	24°45	23°32	16°51	7°55
S 26	8 21 21	6° 3'50	26° 7	12° 0	8°39	4°23	24°26	18° 8	14°48	8°44	9°55	24°42	23°29	16°57	7°56
S 27	8 25 18	7° 4'49	10°14	13°10	8°D38	5°10	24°34	18° 9	14°47	8°45	9°57	24°D42	23°26	17° 4	7°56
M28	8 29 14	8° 5'48	24°23	14°22	8°39	5°57	24°41	18°10	14°45	8°47	9°59	24°43	23°23	17°11	7°57
T 29	8 33 11	9° 6'46	8°33	15°36	8°43	6°44	24°49	18°11	14°44	8°48	10° 0	24°44	23°20	17°17	7°58
W30	8 37 7	10° 7'44	22°42	16°52	8°49	7°31	24°56	18°12	14°43	8°49	10° 2	24°R45	23°16	17°24	7°58
T 31	8 41 4	11° 8'41	6°349	18°3	8°358	8°H18	25°13	18°13	14°42	8°V51	10° 4	24°44	23°13	17°31	7°59

Delta T = 87.55 sec.

## FEBRUARY 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	8 45 0	12° 9'38	20°349	19°327	9°3	9°H 6	25°110	18°15	14°R41	8°V52	10° 6	24°R42	23°10	17°337	8°R 0
S 2	8 48 57	13°10'33	4°40	20°47	9°21	9°53	25°17	18°16	14°II40	8°54	10° 8	24°R36	23° 7	17°44	8° 1
S 3	8 52 53	14°11'27	18°18	22° 8	9°37	10°40	25°24	18°18	14°39	8°55	10°10	24°29	23° 4	17°51	8° 2
M 4	8 56 50	15°12'20	1°H41	23°30	9°54	11°27	25°30	18°20	14°38	8°57	10°12	24°20	23° 1	17°57	8° 3
T 5	9 0 47	16°13'12	14°44	24°53	10°13	12°14	25°37	18°21	14°37	8°58	10°13	24°10	22°57	18° 4	8° 4
W 6	9 4 43	17°14'03	27°29	26°17	10°34	13° 1	25°43	18°23	14°36	9° 0	10°15	24° 1	22°54	18°11	8° 5
T 7	9 8 40	18°14'52	9°V56	27°43	10°56	13°48	25°49	18°25	14°36	9° 1	10°17	23°53	22°51	18°18	8° 6
F 8	9 12 36	19°15'40	22° 8	29° 9	11°21	14°35	25°55	18°27	14°35	9° 3	10°19	23°47	22°48	18°24	8° 8
S 9	9 16 33	20°16'26	4°7	0°36	11°47	15°22	26° 1	18°30	14°34	9° 4	10°21	23°43	22°45	18°31	8° 9
S 10	9 20 29	21°17'11	15°58	2° 4	12°15	16° 9	26° 7	18°32	14°34	9° 6	10°23	23°41	22°41	18°38	8°10
M11	9 24 26	22°17'54	27°47	3°33	12°45	16°56	26°12	18°35	14°33	9° 8	10°25	23°D41	22°38	18°44	8°12
T 12	9 28 22	23°18'36	9°II38	5° 3	13°16	17°43	26°18	18°37	14°33	9° 9	10°26	23°42	22°35	18°51	8°13
W13	9 32 19	24°19'16	21°38	6°34	13°49	18°30	26°23	18°40	14°32	9°11	10°28	23°R43	22°32	18°58	8°15
T 14	9 36 16	25°19'54	3°51	8° 6	14°23	19°16	26°28	18°43	14°32	9°13	10°30	23°42	22°29	19° 4	8°16
F 15	9 40 12	26°20'31	16°22	9°39	14°58	20° 3	26°33	18°46	14°31	9°15	10°32	23°40	22°26	19°11	8°18
S 16	9 44 9	27°21'06	29°13	11°12	15°35	20°50	26°38	18°49	14°31	9°16	10°34	23°35	22°22	19°18	8°20
S 17	9 48 5	28°21'40	12°26	12°47	16°13	21°37	26°42	18°52	14°31	9°18	10°35	23°27	22°19	19°24	8°21
M18	9 52 2	29°22'12	26° 0	14°22	16°52	22°24	26°46	18°55	14°31	9°20	10°37	23°17	22°16	19°31	8°23
T 19	9 55 58	0°H22'42	9°II53	15°58	17°32	23°10	26°51	18°58	14°31	9°22	10°39	23° 6	22°13	19°38	8°25
W20	9 59 55	1°23'11	24° 1	17°35	18°14	23°57	26°55	19° 2	14°30	9°24	10°41	22°55	22°10	19°44	8°27
T 21	10 3 51	2°23'38	8°19	19°13	18°56	24°44	26°59	19° 5	14°D30	9°26	10°43	22°45	22° 6	19°51	8°29
F 22	10 7 48	3°24'04	22°39	20°52	19°40	25°30	27° 2	19° 9	14°30	9°28	10°44	22°37	22° 3	19°58	8°31
S 23	10 11 45	4°24'29	6°159	22°32	20°25	26°17	27° 6	19°12	14°31	9°30	10°46	22°31	22° 0	20° 4	8°33
S 24	10 15 41	5°24'53	21°14	24°13	21°10	27° 3	27° 9	19°16	14°31	9°31	10°48	22°29	21°57	20°11	8°35
M25	10 19 38	6°25'15	5°H21	25°54	21°57	27°50	27°12	19°20	14°31	9°33	10°49	22°D28	21°54	20°18	8°37
T 26	10 23 34	7°25'35	19°21	27°37	22°44	28°37	27°15	19°24	14°31	9°35	10°51	22°R28	21°51	20°24	8°40
W27	10 27 31	8°25'55	3°12	29°21	23°32	29°23	27°18	19°28	14°31	9°37	10°53	22°28	21°47	20°31	8°42
T 28	10 31 27	9°H26'13	16°355	1°H 6	24°322	0°V 9	27°121	19°332	14°II32	9°V39	10°55	22°H26	21°H44	20°H38	8°H44

Delta T = 87.69 sec.

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# SWISS EPHEMERIS for the year 2030

MARCH 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	10 35 24	10 <sup>h</sup> 26'29"	0 <sup>h</sup> 30'	2 <sup>h</sup> 51'	25 <sup>h</sup> 31'	0 <sup>h</sup> 56'	27 <sup>h</sup> 23'	19 <sup>h</sup> 36'	14 <sup>h</sup> 32'	9 <sup>h</sup> 41'	10 <sup>h</sup> 56'	22 <sup>h</sup> 21'	21 <sup>h</sup> 41'	20 <sup>h</sup> 44'	8 <sup>h</sup> 46'
S 2	10 39 20	11 <sup>h</sup> 26'44"	13 <sup>h</sup> 55'	4 <sup>h</sup> 38'	26 <sup>h</sup> 2'	1 <sup>h</sup> 42'	27 <sup>h</sup> 25'	19 <sup>h</sup> 41'	14 <sup>h</sup> 33'	9 <sup>h</sup> 43'	10 <sup>h</sup> 58'	22 <sup>h</sup> 21'	21 <sup>h</sup> 38'	20 <sup>h</sup> 51'	8 <sup>h</sup> 49'
S 3	10 43 17	12 <sup>h</sup> 26'57"	27 <sup>h</sup> 9'	6 <sup>h</sup> 26'	26 <sup>h</sup> 53'	2 <sup>h</sup> 29'	27 <sup>h</sup> 27'	19 <sup>h</sup> 45'	14 <sup>h</sup> 33'	9 <sup>h</sup> 46'	11 <sup>h</sup> 0'	22 <sup>h</sup> 3'	21 <sup>h</sup> 35'	20 <sup>h</sup> 58'	8 <sup>h</sup> 51'
M 4	10 47 14	13 <sup>h</sup> 27'09"	10 <sup>h</sup> 12'	8 <sup>h</sup> 15'	27 <sup>h</sup> 45'	3 <sup>h</sup> 15'	27 <sup>h</sup> 29'	19 <sup>h</sup> 49'	14 <sup>h</sup> 34'	9 <sup>h</sup> 48'	11 <sup>h</sup> 1'	21 <sup>h</sup> 50'	21 <sup>h</sup> 32'	21 <sup>h</sup> 4'	8 <sup>h</sup> 54'
T 5	10 51 10	14 <sup>h</sup> 27'18"	23 <sup>h</sup> 0'	10 <sup>h</sup> 5'	28 <sup>h</sup> 38'	4 <sup>h</sup> 1'	27 <sup>h</sup> 31'	19 <sup>h</sup> 54'	14 <sup>h</sup> 34'	9 <sup>h</sup> 50'	11 <sup>h</sup> 3'	21 <sup>h</sup> 36'	21 <sup>h</sup> 28'	21 <sup>h</sup> 11'	8 <sup>h</sup> 56'
W 6	10 55 7	15 <sup>h</sup> 27'26"	5 <sup>h</sup> 35'	11 <sup>h</sup> 56'	29 <sup>h</sup> 31'	4 <sup>h</sup> 47'	27 <sup>h</sup> 33'	19 <sup>h</sup> 59'	14 <sup>h</sup> 35'	9 <sup>h</sup> 52'	11 <sup>h</sup> 4'	21 <sup>h</sup> 23'	21 <sup>h</sup> 25'	21 <sup>h</sup> 18'	8 <sup>h</sup> 59'
T 7	10 59 3	16 <sup>h</sup> 27'32"	17 <sup>h</sup> 55'	13 <sup>h</sup> 48'	0 <sup>h</sup> 25'	5 <sup>h</sup> 34'	27 <sup>h</sup> 34'	20 <sup>h</sup> 3'	14 <sup>h</sup> 36'	9 <sup>h</sup> 54'	11 <sup>h</sup> 6'	21 <sup>h</sup> 10'	21 <sup>h</sup> 22'	21 <sup>h</sup> 24'	9 <sup>h</sup> 2'
F 8	11 3 0	17 <sup>h</sup> 27'35"	0 <sup>h</sup> 3'	15 <sup>h</sup> 41'	1 <sup>h</sup> 20'	6 <sup>h</sup> 20'	27 <sup>h</sup> 35'	20 <sup>h</sup> 8'	14 <sup>h</sup> 37'	9 <sup>h</sup> 56'	11 <sup>h</sup> 8'	21 <sup>h</sup> 0'	21 <sup>h</sup> 19'	21 <sup>h</sup> 31'	9 <sup>h</sup> 4'
S 9	11 6 56	18 <sup>h</sup> 27'37"	12 <sup>h</sup> 0'	17 <sup>h</sup> 35'	2 <sup>h</sup> 15'	7 <sup>h</sup> 6'	27 <sup>h</sup> 36'	20 <sup>h</sup> 13'	14 <sup>h</sup> 37'	9 <sup>h</sup> 58'	11 <sup>h</sup> 9'	20 <sup>h</sup> 53'	21 <sup>h</sup> 16'	21 <sup>h</sup> 37'	9 <sup>h</sup> 7'
S 10	11 10 53	19 <sup>h</sup> 27'37"	23 <sup>h</sup> 50'	19 <sup>h</sup> 30'	3 <sup>h</sup> 10'	7 <sup>h</sup> 52'	27 <sup>h</sup> 37'	20 <sup>h</sup> 18'	14 <sup>h</sup> 38'	10 <sup>h</sup> 0'	11 <sup>h</sup> 11'	20 <sup>h</sup> 49'	21 <sup>h</sup> 12'	21 <sup>h</sup> 44'	9 <sup>h</sup> 10'
M 11	11 14 49	20 <sup>h</sup> 27'34"	5 <sup>h</sup> 37'	21 <sup>h</sup> 26'	4 <sup>h</sup> 6'	8 <sup>h</sup> 38'	27 <sup>h</sup> 37'	20 <sup>h</sup> 23'	14 <sup>h</sup> 39'	10 <sup>h</sup> 2'	11 <sup>h</sup> 12'	20 <sup>h</sup> 47'	21 <sup>h</sup> 9'	21 <sup>h</sup> 51'	9 <sup>h</sup> 12'
T 12	11 18 46	21 <sup>h</sup> 27'30"	17 <sup>h</sup> 28'	23 <sup>h</sup> 23'	5 <sup>h</sup> 3'	9 <sup>h</sup> 24'	27 <sup>h</sup> 38'	20 <sup>h</sup> 28'	14 <sup>h</sup> 40'	10 <sup>h</sup> 5'	11 <sup>h</sup> 14'	20 <sup>h</sup> 47'	21 <sup>h</sup> 6'	21 <sup>h</sup> 57'	9 <sup>h</sup> 15'
W 13	11 22 43	22 <sup>h</sup> 27'23"	29 <sup>h</sup> 26'	25 <sup>h</sup> 20'	6 <sup>h</sup> 0'	10 <sup>h</sup> 10'	27 <sup>h</sup> 38'	20 <sup>h</sup> 34'	14 <sup>h</sup> 41'	10 <sup>h</sup> 7'	11 <sup>h</sup> 15'	20 <sup>h</sup> 47'	21 <sup>h</sup> 3'	22 <sup>h</sup> 4'	9 <sup>h</sup> 18'
T 14	11 26 39	23 <sup>h</sup> 27'14"	11 <sup>h</sup> 38'	27 <sup>h</sup> 18'	6 <sup>h</sup> 58'	10 <sup>h</sup> 56'	27 <sup>h</sup> 38'	20 <sup>h</sup> 39'	14 <sup>h</sup> 42'	10 <sup>h</sup> 9'	11 <sup>h</sup> 17'	20 <sup>h</sup> 46'	21 <sup>h</sup> 0'	22 <sup>h</sup> 11'	9 <sup>h</sup> 21'
F 15	11 30 36	24 <sup>h</sup> 27'03"	24 <sup>h</sup> 9'	29 <sup>h</sup> 17'	7 <sup>h</sup> 56'	11 <sup>h</sup> 42'	27 <sup>h</sup> 38'	20 <sup>h</sup> 44'	14 <sup>h</sup> 43'	10 <sup>h</sup> 11'	11 <sup>h</sup> 18'	20 <sup>h</sup> 43'	20 <sup>h</sup> 57'	22 <sup>h</sup> 17'	9 <sup>h</sup> 24'
S 16	11 34 32	25 <sup>h</sup> 26'50"	7 <sup>h</sup> 3'	1 <sup>h</sup> 16'	8 <sup>h</sup> 54'	12 <sup>h</sup> 28'	27 <sup>h</sup> 37'	20 <sup>h</sup> 50'	14 <sup>h</sup> 45'	10 <sup>h</sup> 13'	11 <sup>h</sup> 20'	20 <sup>h</sup> 38'	20 <sup>h</sup> 53'	22 <sup>h</sup> 24'	9 <sup>h</sup> 27'
S 17	11 38 29	26 <sup>h</sup> 26'34"	20 <sup>h</sup> 23'	3 <sup>h</sup> 15'	9 <sup>h</sup> 53'	13 <sup>h</sup> 14'	27 <sup>h</sup> 37'	20 <sup>h</sup> 55'	14 <sup>h</sup> 46'	10 <sup>h</sup> 16'	11 <sup>h</sup> 21'	20 <sup>h</sup> 30'	20 <sup>h</sup> 50'	22 <sup>h</sup> 31'	9 <sup>h</sup> 30'
M 18	11 42 25	27 <sup>h</sup> 26'16"	4 <sup>h</sup> 10'	5 <sup>h</sup> 14'	10 <sup>h</sup> 52'	13 <sup>h</sup> 59'	27 <sup>h</sup> 36'	21 <sup>h</sup> 1'	14 <sup>h</sup> 47'	10 <sup>h</sup> 18'	11 <sup>h</sup> 22'	20 <sup>h</sup> 20'	20 <sup>h</sup> 47'	22 <sup>h</sup> 37'	9 <sup>h</sup> 33'
T 19	11 46 22	28 <sup>h</sup> 25'56"	18 <sup>h</sup> 21'	7 <sup>h</sup> 13'	11 <sup>h</sup> 52'	14 <sup>h</sup> 45'	27 <sup>h</sup> 35'	21 <sup>h</sup> 7'	14 <sup>h</sup> 48'	10 <sup>h</sup> 20'	11 <sup>h</sup> 24'	20 <sup>h</sup> 9'	20 <sup>h</sup> 44'	22 <sup>h</sup> 44'	9 <sup>h</sup> 36'
W 20	11 50 18	29 <sup>h</sup> 25'34"	2 <sup>h</sup> 52'	9 <sup>h</sup> 11'	12 <sup>h</sup> 52'	15 <sup>h</sup> 31'	27 <sup>h</sup> 34'	21 <sup>h</sup> 12'	14 <sup>h</sup> 50'	10 <sup>h</sup> 22'	11 <sup>h</sup> 25'	19 <sup>h</sup> 57'	20 <sup>h</sup> 41'	22 <sup>h</sup> 51'	9 <sup>h</sup> 39'
T 21	11 54 15	0 <sup>h</sup> 25'10"	17 <sup>h</sup> 35'	11 <sup>h</sup> 8'	13 <sup>h</sup> 52'	16 <sup>h</sup> 16'	27 <sup>h</sup> 33'	21 <sup>h</sup> 18'	14 <sup>h</sup> 51'	10 <sup>h</sup> 25'	11 <sup>h</sup> 27'	19 <sup>h</sup> 46'	20 <sup>h</sup> 38'	22 <sup>h</sup> 57'	9 <sup>h</sup> 42'
F 22	11 58 11	1 <sup>h</sup> 24'44"	2 <sup>h</sup> 23'	13 <sup>h</sup> 4'	14 <sup>h</sup> 53'	17 <sup>h</sup> 2'	27 <sup>h</sup> 31'	21 <sup>h</sup> 24'	14 <sup>h</sup> 53'	10 <sup>h</sup> 27'	11 <sup>h</sup> 28'	19 <sup>h</sup> 37'	20 <sup>h</sup> 34'	23 <sup>h</sup> 4'	9 <sup>h</sup> 45'
S 23	12 2 8	2 <sup>h</sup> 24'17"	17 <sup>h</sup> 7'	14 <sup>h</sup> 59'	15 <sup>h</sup> 54'	17 <sup>h</sup> 47'	27 <sup>h</sup> 30'	21 <sup>h</sup> 30'	14 <sup>h</sup> 54'	10 <sup>h</sup> 29'	11 <sup>h</sup> 29'	19 <sup>h</sup> 31'	20 <sup>h</sup> 31'	23 <sup>h</sup> 11'	9 <sup>h</sup> 49'
S 24	12 6 5	3 <sup>h</sup> 23'47"	1 <sup>h</sup> 41'	16 <sup>h</sup> 51'	16 <sup>h</sup> 56'	18 <sup>h</sup> 33'	27 <sup>h</sup> 28'	21 <sup>h</sup> 36'	14 <sup>h</sup> 56'	10 <sup>h</sup> 31'	11 <sup>h</sup> 30'	19 <sup>h</sup> 28'	20 <sup>h</sup> 28'	23 <sup>h</sup> 17'	9 <sup>h</sup> 52'
M 25	12 10 1	4 <sup>h</sup> 23'16"	1 <sup>h</sup> 6'	18 <sup>h</sup> 41'	17 <sup>h</sup> 57'	19 <sup>h</sup> 18'	27 <sup>h</sup> 26'	21 <sup>h</sup> 42'	14 <sup>h</sup> 57'	10 <sup>h</sup> 34'	11 <sup>h</sup> 32'	19 <sup>h</sup> D27'	20 <sup>h</sup> 25'	23 <sup>h</sup> 24'	9 <sup>h</sup> 55'
T 26	12 13 58	5 <sup>h</sup> 22'43"	0 <sup>h</sup> 5'	20 <sup>h</sup> 28'	18 <sup>h</sup> 59'	20 <sup>h</sup> 4'	27 <sup>h</sup> 24'	21 <sup>h</sup> 48'	14 <sup>h</sup> 59'	10 <sup>h</sup> 36'	11 <sup>h</sup> 33'	19 <sup>h</sup> R27'	20 <sup>h</sup> 22'	23 <sup>h</sup> 31'	9 <sup>h</sup> 59'
W 27	12 17 54	6 <sup>h</sup> 22'09"	13 <sup>h</sup> 53'	22 <sup>h</sup> 11'	20 <sup>h</sup> 2'	20 <sup>h</sup> 49'	27 <sup>h</sup> 21'	21 <sup>h</sup> 54'	15 <sup>h</sup> 1'	10 <sup>h</sup> 38'	11 <sup>h</sup> 34'	19 <sup>h</sup> 27'	20 <sup>h</sup> 18'	23 <sup>h</sup> 37'	10 <sup>h</sup> 2'
T 28	12 21 51	7 <sup>h</sup> 21'33"	27 <sup>h</sup> 25'	23 <sup>h</sup> 51'	21 <sup>h</sup> 4'	21 <sup>h</sup> 34'	27 <sup>h</sup> 19'	22 <sup>h</sup> 0'	15 <sup>h</sup> 3'	10 <sup>h</sup> 40'	11 <sup>h</sup> 35'	19 <sup>h</sup> 26'	20 <sup>h</sup> 15'	23 <sup>h</sup> 44'	10 <sup>h</sup> 5'
F 29	12 25 47	8 <sup>h</sup> 20'55"	10 <sup>h</sup> 43'	25 <sup>h</sup> 27'	22 <sup>h</sup> 7'	22 <sup>h</sup> 20'	27 <sup>h</sup> 16'	22 <sup>h</sup> 7'	15 <sup>h</sup> 4'	10 <sup>h</sup> 43'	11 <sup>h</sup> 37'	19 <sup>h</sup> 22'	20 <sup>h</sup> 12'	23 <sup>h</sup> 51'	10 <sup>h</sup> 9'
S 30	12 29 44	9 <sup>h</sup> 20'15"	23 <sup>h</sup> 48'	26 <sup>h</sup> 58'	23 <sup>h</sup> 11'	23 <sup>h</sup> 5'	27 <sup>h</sup> 13'	22 <sup>h</sup> 13'	15 <sup>h</sup> 6'	10 <sup>h</sup> 45'	11 <sup>h</sup> 38'	19 <sup>h</sup> 15'	20 <sup>h</sup> 9'	23 <sup>h</sup> 57'	10 <sup>h</sup> 12'
S 31	12 33 40	10 <sup>h</sup> 19'33"	6 <sup>h</sup> 41'	28 <sup>h</sup> 24'	24 <sup>h</sup> 14'	23 <sup>h</sup> 50'	27 <sup>h</sup> 10'	22 <sup>h</sup> 20'	15 <sup>h</sup> 8'	10 <sup>h</sup> 47'	11 <sup>h</sup> 39'	19 <sup>h</sup> 6'	20 <sup>h</sup> 6'	24 <sup>h</sup> 4'	10 <sup>h</sup> 15'

Delta T = 87.82 sec.

APRIL 2030

00:00 UT

Day	Sid.t	☉	☾	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	12 37 37	11°18'49	19°23'	29°45'	25°18'	24°35'	27°R 7	22°26'	15°11'	10°49'	11°40'	18°R54	20° 3	24°11'	10°19'
T 2	12 41 34	12°18'03	1°53'	18° 0	26°22'	25°20'	27° 3	22°33'	15°12'	10°52'	11°41'	18°42'	19°59'	24°17'	10°22'
W 3	12 45 30	13°17'16	14°13'	2° 9	27°26'	26° 5	26°59'	22°39'	15°14'	10°54'	11°42'	18°30'	19°56'	24°24'	10°26'
T 4	12 49 27	14°16'26	26°22'	3°13'	28°30'	26°50'	26°56'	22°46'	15°16'	10°56'	11°43'	18°19'	19°53'	24°31'	10°30'
F 5	12 53 23	15°15'34	8°22'	4°10'	29°35'	27°35'	26°52'	22°52'	15°18'	10°59'	11°44'	18°10'	19°50'	24°37'	10°33'
S 6	12 57 20	16°14'41	20°15'	5° 0	0°40'	28°20'	26°48'	22°59'	15°20'	11° 1	11°45'	18° 4	19°47'	24°44'	10°37'
S 7	13 1 16	17°13'45	2° 3	5°44'	1°45'	29° 5	26°43'	23° 6	15°23'	11° 3	11°46'	18° 0	19°43'	24°51'	10°40'
M 8	13 5 13	18°12'47	13°49'	6°22'	2°50'	29°50'	26°39'	23°13'	15°25'	11° 5	11°47'	17°D58	19°40'	24°57'	10°44'
T 9	13 9 9	19°11'46	25°39'	6°53'	3°55'	0°35'	26°34'	23°20'	15°27'	11° 8	11°48'	17°59'	19°37'	25° 4	10°48'
W10	13 13 6	20°10'44	7°36'	7°16'	5° 1	1°19'	26°29'	23°26'	15°30'	11°10'	11°49'	17°59'	19°34'	25°11'	10°51'
T 11	13 17 3	21° 9'39	19°46'	7°34'	6° 7	2° 4	26°25'	23°33'	15°32'	11°12'	11°50'	18°R 0	19°31'	25°17'	10°55'
F 12	13 20 59	22° 8'31	2°15'	7°44'	7°13'	2°49'	26°19'	23°40'	15°34'	11°14'	11°51'	17°59'	19°28'	25°24'	10°59'
S 13	13 24 56	23° 7'22	15° 6	7°R48	8°19'	3°33'	26°14'	23°47'	15°37'	11°17'	11°51'	17°57'	19°24'	25°31'	11° 2
S 14	13 28 52	24° 6'10	28°24'	7°45'	9°25'	4°18'	26° 9	23°55'	15°39'	11°19'	11°52'	17°53'	19°21'	25°37'	11° 6
M15	13 32 49	25° 4'56	12°11'	7°37'	10°31'	5° 2	26° 3	24° 2	15°42'	11°21'	11°53'	17°46'	19°18'	25°44'	11°10'
T 16	13 36 45	26° 3'40	26°26'	7°22'	11°38'	5°46'	25°58'	24° 9	15°44'	11°23'	11°54'	17°39'	19°15'	25°51'	11°14'
W17	13 40 42	27° 2'21	11° 6	7° 3	12°45'	6°31'	25°52'	24°16'	15°47'	11°25'	11°54'	17°31'	19°12'	25°57'	11°17'
T 18	13 44 38	28° 1'01	26° 4	6°38'	13°51'	7°15'	25°46'	24°23'	15°49'	11°28'	11°55'	17°23'	19° 9	26° 4	11°21'
F 19	13 48 35	28°59'39	11°10'	6° 9	14°59'	7°59'	25°40'	24°30'	15°52'	11°30'	11°56'	17°17'	19° 5	26°11'	11°25'
S 20	13 52 31	29°58'14	26°15'	5°36'	16° 6	8°44'	25°34'	24°38'	15°55'	11°32'	11°56'	17°13'	19° 2	26°17'	11°29'
S 21	13 56 28	0°56'49	11°11'	4°59'	17°13'	9°28'	25°28'	24°45'	15°57'	11°34'	11°57'	17°D12	18°59'	26°24'	11°33'
M22	14 0 25	1°55'21	25°50'	4°21'	18°20'	10°12'	25°21'	24°52'	16° 0	11°36'	11°58'	17°12'	18°56'	26°31'	11°36'
T 23	14 4 21	2°53'52	10° 8	3°40'	19°28'	10°56'	25°15'	25° 0	16° 3	11°39'	11°58'	17°13'	18°53'	26°37'	11°40'
W24	14 8 18	3°52'21	2° 4	2°59'	20°36'	11°40'	25° 8	25° 7	16° 6	11°41'	11°59'	17°14'	18°49'	26°44'	11°44'
T 25	14 12 14	4°50'49	7°37'	2°18'	21°43'	12°24'	25° 2	25°15'	16° 9	11°43'	11°59'	17°R15	18°46'	26°50'	11°48'
F 26	14 16 11	5°49'15	20°51'	1°37'	22°51'	13° 8	24°55'	25°22'	16°11'	11°45'	12° 0	17°13'	18°43'	26°57'	11°52'
S 27	14 20 7	6°47'39	3°46'	0°58'	23°59'	13°51'	24°48'	25°30'	16°14'	11°47'	12° 0	17°10'	18°40'	27° 4	11°56'
S 28	14 24 4	7°46'02	16°25'	0°20'	25° 8	14°35'	24°41'	25°37'	16°17'	11°49'	12° 1	17° 6	18°37'	27°10'	11°59'
M29	14 28 0	8°44'23	28°52'	29°45'	26°16'	15°19'	24°34'	25°45'	16°20'	11°51'	12° 1	17° 0	18°34'	27°17'	12° 3
T 30	14 31 57	9°42'42	11° 7	29°14'	27°42'	16° 3	24°12'	25°52'	16°12'	11°53'	12° 1	16°53'	18°30'	27°24'	12° 8

# SWISS EPHEMERIS for the year 2030

MAY 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	14 35 54	10°41'00	23°13'	28°45'	28°33'	16°46'	24°20'	26°00'	16°26'	11°55'	12°22'	16°46'	18°27'	27°30'	12°11'
T 2	14 39 50	11°39'16	5°12'	28°21'	29°41'	17°30'	24°13'	26°07'	16°29'	11°57'	12°02'	16°40'	18°24'	27°37'	12°15'
F 3	14 43 47	12°37'31	17°04'	28°01'	0°50'	18°13'	24°05'	26°15'	16°32'	11°59'	12°02'	16°36'	18°21'	27°44'	12°19'
S 4	14 47 43	13°35'43	28°53'	27°45'	1°58'	18°57'	23°58'	26°23'	16°35'	12°01'	12°03'	16°32'	18°18'	27°50'	12°23'
S 5	14 51 40	14°33'55	10°40'	27°34'	3°07'	19°40'	23°50'	26°30'	16°39'	12°03'	12°03'	16°31'	18°15'	27°57'	12°27'
M 6	14 55 36	15°32'04	22°28'	27°28'	4°16'	20°24'	23°43'	26°38'	16°42'	12°05'	12°03'	16°D31	18°11'	28°04'	12°30'
T 7	14 59 33	16°30'11	4°19'	27°D26	5°25'	21°07'	23°35'	26°46'	16°45'	12°07'	12°03'	16°32'	18°08'	28°10'	12°34'
W 8	15 03 29	17°28'17	16°19'	27°29'	6°34'	21°50'	23°28'	26°53'	16°48'	12°09'	12°03'	16°34'	18°05'	28°17'	12°38'
T 9	15 07 26	18°26'20	28°30'	27°37'	7°43'	22°34'	23°20'	27°01'	16°51'	12°11'	12°03'	16°35'	18°02'	28°24'	12°42'
F 10	15 11 23	19°24'22	10°58'	27°50'	8°52'	23°17'	23°13'	27°09'	16°55'	12°13'	12°04'	16°37'	17°59'	28°30'	12°46'
S 11	15 15 19	20°22'22	23°46'	28°07'	10°02'	24°00'	23°05'	27°17'	16°58'	12°15'	12°04'	16°R37	17°55'	28°37'	12°50'
S 12	15 19 16	21°20'20	6°59'	28°28'	11°11'	24°43'	22°57'	27°24'	17°01'	12°17'	12°04'	16°36'	17°52'	28°44'	12°54'
M13	15 23 12	22°18'16	20°39'	28°54'	12°21'	25°26'	22°50'	27°32'	17°04'	12°19'	12°R4	16°34'	17°49'	28°50'	12°58'
T 14	15 27 09	23°16'10	4°47'	29°24'	13°30'	26°09'	22°42'	27°40'	17°08'	12°21'	12°04'	16°31'	17°46'	28°57'	13°01'
W15	15 31 05	24°14'02	19°21'	29°58'	14°40'	26°52'	22°35'	27°47'	17°11'	12°22'	12°04'	16°28'	17°43'	29°04'	13°05'
T 16	15 35 02	25°11'53	4°17'	0°36'	15°49'	27°35'	22°27'	27°55'	17°14'	12°24'	12°04'	16°26'	17°40'	29°10'	13°09'
F 17	15 38 58	26°09'42	19°26'	1°17'	16°59'	28°18'	22°19'	28°03'	17°18'	12°26'	12°03'	16°23'	17°36'	29°17'	13°13'
S 18	15 42 55	27°07'30	4°40'	2°03'	18°09'	29°00'	22°12'	28°11'	17°21'	12°28'	12°03'	16°22'	17°33'	29°24'	13°17'
S 19	15 46 52	28°05'17	19°48'	2°52'	19°18'	29°43'	22°04'	28°19'	17°24'	12°29'	12°03'	16°D22	17°30'	29°30'	13°20'
M20	15 50 48	29°03'02	4°42'	3°44'	20°28'	0°26'	21°57'	28°26'	17°28'	12°31'	12°03'	16°22'	17°27'	29°37'	13°24'
T 21	15 54 45	0°11'04	19°16'	4°40'	21°38'	1°08'	21°49'	28°34'	17°31'	12°33'	12°03'	16°23'	17°24'	29°43'	13°28'
W22	15 58 41	0°58'29	3°42'	5°39'	22°48'	1°51'	21°42'	28°42'	17°35'	12°34'	12°03'	16°25'	17°21'	29°50'	13°32'
T 23	16 02 38	1°56'11	17°07'	6°41'	23°58'	2°34'	21°34'	28°50'	17°38'	12°36'	12°02'	16°26'	17°17'	29°57'	13°35'
F 24	16 06 34	2°53'52	0°24'	7°46'	25°09'	3°16'	21°27'	28°57'	17°42'	12°38'	12°02'	16°R26	17°14'	0°11'3	13°39'
S 25	16 10 31	3°51'31	13°19'	8°54'	26°19'	3°58'	21°19'	29°05'	17°45'	12°39'	12°02'	16°26'	17°11'	0°10'	13°43'
S 26	16 14 28	4°49'10	25°54'	10°05'	27°29'	4°41'	21°12'	29°13'	17°48'	12°41'	12°01'	16°25'	17°08'	0°17'	13°47'
M27	16 18 24	5°46'48	8°12'	11°19'	28°39'	5°23'	21°05'	29°21'	17°52'	12°42'	12°01'	16°24'	17°05'	0°23'	13°50'
T 28	16 22 21	6°44'25	20°19'	12°36'	29°50'	6°05'	20°58'	29°28'	17°55'	12°44'	12°01'	16°23'	17°01'	0°30'	13°54'
W29	16 26 17	7°42'00	2°16'	13°55'	1°00'	6°48'	20°51'	29°36'	17°59'	12°45'	12°00'	16°21'	16°58'	0°37'	13°58'
T 30	16 30 14	8°39'35	14°07'	15°17'	2°10'	7°30'	20°44'	29°44'	18°02'	12°47'	12°00'	16°20'	16°55'	0°43'	14°01'
F 31	16 34 10	9°37'09	25°55'	16°41'	3°21'	8°12'	20°37'	29°51'	18°11'	12°48'	11°59'	16°20'	16°52'	0°11'50	14°05'

Delta T = 88.09 sec.

JUNE 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	16 38 07	10°34'42	7°43'	18°09'	4°32'	8°54'	20°R30	29°59'	18°11'	12°50'	11°R59	16°R19	16°49'	0°11'57	14°08'
S 2	16 42 03	11°32'14	19°31'	19°38'	5°42'	9°36'	20°M23	0°11'7	18°13'	12°51'	11°58'	16°D19	16°46'	1°03'	14°12'
M 3	16 46 00	12°29'45	1°24'	21°11'	6°53'	10°18'	20°16'	0°15'	18°17'	12°53'	11°58'	16°41'	16°42'	1°10'	14°15'
T 4	16 49 57	13°27'15	13°23'	22°46'	8°04'	11°00'	20°10'	0°22'	18°20'	12°54'	11°57'	16°20'	16°39'	1°17'	14°19'
W 5	16 53 53	14°24'43	25°30'	24°23'	9°14'	11°42'	20°03'	0°30'	18°24'	12°55'	11°57'	16°20'	16°36'	1°23'	14°22'
T 6	16 57 50	15°22'11	7°49'	26°03'	10°25'	12°24'	19°57'	0°37'	18°27'	12°56'	11°56'	16°20'	16°33'	1°30'	14°26'
F 7	17 01 46	16°19'37	20°22'	27°46'	11°36'	13°05'	19°51'	0°45'	18°31'	12°58'	11°55'	16°R20	16°30'	1°37'	14°29'
S 8	17 05 43	17°17'02	3°12'	29°31'	12°47'	13°47'	19°45'	0°53'	18°34'	12°59'	11°55'	16°20'	16°26'	1°43'	14°33'
S 9	17 09 39	18°14'26	16°23'	1°11'19	13°58'	14°29'	19°39'	1°00'	18°38'	13°00'	11°54'	16°D20	16°23'	1°50'	14°36'
M10	17 13 36	19°11'49	29°56'	3°09'	15°09'	15°11'	19°33'	1°08'	18°41'	13°01'	11°53'	16°20'	16°20'	1°56'	14°40'
T 11	17 17 32	20°09'10	13°53'	5°01'	16°20'	15°52'	19°27'	1°15'	18°45'	13°02'	11°53'	16°20'	16°17'	2°03'	14°43'
W12	17 21 29	21°06'31	28°14'	6°56'	17°31'	16°34'	19°22'	1°23'	18°49'	13°04'	11°52'	16°21'	16°14'	2°10'	14°46'
T 13	17 25 26	22°03'51	12°55'	8°53'	18°42'	17°15'	19°16'	1°30'	18°52'	13°05'	11°51'	16°21'	16°11'	2°16'	14°50'
F 14	17 29 22	23°01'09	27°52'	10°52'	19°53'	17°57'	19°11'	1°38'	18°56'	13°06'	11°50'	16°21'	16°07'	2°23'	14°53'
S 15	17 33 19	23°58'27	12°58'	12°54'	21°04'	18°38'	19°06'	1°45'	18°59'	13°07'	11°50'	16°R22	16°04'	2°30'	14°56'
S 16	17 37 15	24°55'45	28°03'	14°57'	22°15'	19°19'	19°01'	1°52'	19°03'	13°08'	11°49'	16°22'	16°01'	2°36'	14°59'
M17	17 41 12	25°53'02	13°00'	17°03'	23°26'	20°01'	18°56'	2°00'	19°06'	13°09'	11°48'	16°21'	15°58'	2°43'	15°02'
T 18	17 45 08	26°50'18	27°41'	19°10'	24°38'	20°42'	18°51'	2°07'	19°10'	13°10'	11°47'	16°20'	15°55'	2°50'	15°05'
W19	17 49 05	27°47'34	11°58'	21°18'	25°49'	21°23'	18°46'	2°14'	19°13'	13°11'	11°46'	16°19'	15°52'	2°56'	15°09'
T 20	17 53 01	28°44'49	25°50'	23°27'	27°00'	22°04'	18°42'	2°22'	19°17'	13°11'	11°45'	16°17'	15°48'	3°03'	15°12'
F 21	17 56 58	29°42'04	9°14'	25°38'	28°12'	22°45'	18°38'	2°29'	19°20'	13°12'	11°44'	16°16'	15°45'	3°10'	15°15'
S 22	18 00 55	0°39'19	22°13'	27°49'	29°23'	23°26'	18°33'	2°36'	19°24'	13°13'	11°43'	16°15'	15°42'	3°16'	15°18'
S 23	18 04 51	1°36'34	4°49'	0°00'	0°11'35	24°07'	18°29'	2°43'	19°27'	13°14'	11°42'	16°D15	15°39'	3°23'	15°21'
M24	18 08 48	2°33'48	17°06'	2°12'	1°46'	24°48'	18°26'	2°50'	19°31'	13°15'	11°41'	16°16'	15°36'	3°30'	15°24'
T 25	18 12 44	3°31'03	29°10'	4°23'	2°58'	25°29'	18°22'	2°57'	19°34'	13°15'	11°40'	16°17'	15°32'	3°36'	15°26'
W26	18 16 41	4°28'18	11°03'	6°34'	4°09'	26°10'	18°19'	3°04'	19°38'	13°16'	11°39'	16°18'	15°29'	3°43'	15°29'
T 27	18 20 37	5°25'32	22°52'	8°45'	5°21'	26°51'	18°15'	3°11'	19°41'	13°17'	11°38'	16°20'	15°26'	3°50'	15°32'
F 28	18 24 34	6°22'46	4°11'38	10°54'	6°33'	27°32'	18°12'	3°18'	19°45'	13°17'	11°37'	16°21'	15°23'	3°56'	15°35'
S 29	18 28 30	7°20'01	16°27'	13°02'	7°44'	28°13'	18°09'	3°25'	19°48'	13°18'	11°36'	16°R21	15°20'	4°03'	15°38'
S 30	18 32 27	8°17'15	28°11'21	15°09'	8°11'56	28°11'53	18°11'06	3°32'	19°52'	13°19'	11°35'	16°21'	15°17'	4°11'9	15°40'

Delta T = 88.23 sec.

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# SWISS EPHEMERIS for the year 2030

JULY 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	18 36 24	9°15'29"	10°22'22"	17°15'15"	10°11'08"	29°11'34"	18°04'18"	3°11'39"	19°11'55"	13°19'19"	11°03'34"	16°01'19"	15°13'13"	4°11'16"	15°08'43"
T 2	18 40 20	10°11'43"	22°32'32"	19°18'18"	11°20'00"	0°15'15"	18°11'18"	3°04'46"	19°58'58"	13°19'19"	11°03'33"	16°01'16"	15°10'10"	4°23'23"	15°46'46"
W 3	18 44 17	11°08'56"	4°02'53"	21°21'21"	12°32'32"	0°55'55"	17°59'59"	3°53'53"	20°02'02"	13°20'20"	11°32'32"	16°13'13"	15°07'07"	4°29'29"	15°48'48"
T 4	18 48 13	12°06'10"	17°26'26"	23°21'21"	13°44'44"	1°36'36"	17°57'57"	3°59'59"	20°05'05"	13°20'20"	11°31'31"	16°09'09"	15°04'04"	4°36'36"	15°51'51"
F 5	18 52 10	13°03'23"	0°11'13"	25°20'20"	14°55'55"	2°16'16"	17°55'55"	4°06'06"	20°08'08"	13°21'21"	11°30'30"	16°05'05"	15°01'01"	4°43'43"	15°53'53"
S 6	18 56 06	14°03'36"	13°13'13"	27°16'16"	16°07'07"	2°57'57"	17°53'53"	4°13'13"	20°12'12"	13°21'21"	11°28'28"	16°01'01"	14°58'58"	4°49'49"	15°56'56"
S 7	19 00 03	14°57'48"	26°29'29"	29°11'11"	17°19'19"	3°37'37"	17°52'52"	4°19'19"	20°15'15"	13°21'21"	11°27'27"	15°59'59"	14°54'54"	4°56'56"	15°58'58"
M 8	19 03 59	15°55'01"	10°02'02"	18°04'04"	18°31'31"	4°18'18"	17°50'50"	4°26'26"	20°18'18"	13°22'22"	11°26'26"	15°58'58"	14°51'51"	5°03'03"	16°01'01"
T 9	19 07 56	16°52'13"	23°52'52"	2°55'55"	19°44'44"	4°58'58"	17°49'49"	4°32'32"	20°22'22"	13°22'22"	11°25'25"	15°58'58"	14°48'48"	5°09'09"	16°03'03"
W 10	19 11 53	17°49'25"	7°11'59"	4°44'44"	20°56'56"	5°38'38"	17°48'48"	4°38'38"	20°25'25"	13°22'22"	11°24'24"	15°59'59"	14°45'45"	5°16'16"	16°05'05"
T 11	19 15 49	18°46'37"	22°23'23"	6°30'30"	22°08'08"	6°18'18"	17°47'47"	4°45'45"	20°28'28"	13°22'22"	11°22'22"	16°00'00"	14°42'42"	5°23'23"	16°07'07"
F 12	19 19 46	19°43'49"	7°01'01"	8°15'15"	23°20'20"	6°59'59"	17°47'47"	4°51'51"	20°31'31"	13°23'23"	11°21'21"	16°01'01"	14°38'38"	5°29'29"	16°10'10"
S 13	19 23 42	20°41'01"	21°46'46"	9°58'58"	24°32'32"	7°39'39"	17°46'46"	4°57'57"	20°35'35"	13°23'23"	11°20'20"	16°01'01"	14°35'35"	5°36'36"	16°12'12"
S 14	19 27 39	21°38'13"	6°03'35"	11°39'39"	25°44'44"	8°19'19"	17°46'46"	5°03'03"	20°38'38"	13°23'23"	11°18'18"	16°00'00"	14°32'32"	5°43'43"	16°14'14"
M 15	19 31 35	22°35'26"	21°20'20"	13°18'18"	26°57'57"	8°59'59"	17°46'46"	5°10'10"	20°41'41"	13°23'23"	11°17'17"	15°57'57"	14°29'29"	5°49'49"	16°16'16"
T 16	19 35 32	23°32'38"	5°05'54"	14°55'55"	28°09'09"	9°39'39"	17°46'46"	5°16'16"	20°44'44"	13°23'23"	11°16'16"	15°52'52"	14°26'26"	5°56'56"	16°18'18"
W 17	19 39 28	24°29'51"	20°09'09"	16°30'30"	29°21'21"	10°19'19"	17°46'46"	5°22'22"	20°47'47"	13°23'23"	11°15'15"	15°47'47"	14°23'23"	6°02'02"	16°20'20"
T 18	19 43 25	25°27'04"	4°02'02"	18°03'03"	0°03'03"	10°59'59"	17°47'47"	5°28'28"	20°50'50"	13°23'23"	11°13'13"	15°41'41"	14°19'19"	6°09'09"	16°22'22"
F 19	19 47 22	26°24'18"	17°30'30"	19°34'34"	1°46'46"	11°39'39"	17°47'47"	5°33'33"	20°53'53"	13°23'23"	11°12'12"	15°35'35"	14°16'16"	6°16'16"	16°24'24"
S 20	19 51 18	27°21'33"	0°17'32"	21°03'03"	2°59'59"	12°19'19"	17°48'48"	5°39'39"	20°56'56"	13°23'23"	11°11'11"	15°30'30"	14°13'13"	6°22'22"	16°25'25"
S 21	19 55 15	28°18'48"	13°10'10"	22°30'30"	4°11'11"	12°58'58"	17°49'49"	5°45'45"	20°59'59"	13°23'23"	11°09'09"	15°27'27"	14°10'10"	6°29'29"	16°27'27"
M 22	19 59 11	29°16'04"	25°29'29"	23°55'55"	5°24'24"	13°38'38"	17°50'50"	5°51'51"	21°02'02"	13°23'23"	11°08'08"	15°26'26"	14°07'07"	6°36'36"	16°29'29"
T 23	20 03 08	0°02'13"	7°03'33"	25°18'18"	6°37'37"	14°18'18"	17°51'51"	5°56'56"	21°05'05"	13°22'22"	11°07'07"	15°26'26"	14°04'04"	6°42'42"	16°30'30"
W 24	20 07 04	1°10'38"	19°26'26"	26°39'39"	7°49'49"	14°58'58"	17°53'53"	6°02'02"	21°08'08"	13°22'22"	11°05'05"	15°28'28"	14°00'00"	6°49'49"	16°32'32"
T 25	20 11 01	2°07'57"	1°11'14"	27°57'57"	9°02'02"	15°37'37"	17°55'55"	6°07'07"	21°11'11"	13°22'22"	11°04'04"	15°29'29"	13°57'57"	6°56'56"	16°34'34"
F 26	20 14 57	3°05'16"	13°02'02"	29°14'14"	10°15'15"	16°17'17"	17°56'56"	6°13'13"	21°14'14"	13°22'22"	11°03'03"	15°30'30"	13°54'54"	7°02'02"	16°35'35"
S 27	20 18 54	4°02'37"	24°54'54"	0°11'28"	11°27'27"	16°56'56"	17°59'59"	6°18'18"	21°17'17"	13°21'21"	11°01'01"	15°29'29"	13°51'51"	7°09'09"	16°36'36"
S 28	20 22 51	4°59'58"	6°05'54"	1°40'40"	12°40'40"	17°36'36"	18°01'01"	6°23'23"	21°19'19"	13°21'21"	11°00'00"	15°27'27"	13°48'48"	7°16'16"	16°38'38"
M 29	20 26 47	5°57'20"	19°06'06"	2°49'49"	13°53'53"	18°16'16"	18°03'03"	6°29'29"	21°22'22"	13°21'21"	10°59'59"	15°22'22"	13°44'44"	7°22'22"	16°39'39"
T 30	20 30 44	6°54'42"	1°02'30"	3°56'56"	15°06'06"	18°55'55"	18°06'06"	6°34'34"	21°25'25"	13°20'20"	10°57'57"	15°16'16"	13°41'41"	7°29'29"	16°41'41"
W 31	20 34 40	7°52'06"	14°02'02"	5°11'01"	16°05'05"	19°03'03"	18°11'11"	6°39'39"	21°28'28"	13°19'19"	10°55'55"	15°08'08"	13°38'38"	7°36'36"	16°42'42"

Delta T = 88.36 sec.

AUGUST 2030

00:00 UT

Day	Sid.t	☉	☽	♂	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	20 38 37	8♌49'30	27♏ 1	6♍ 2	17♍32	20♌14	18♏11	6♏44	21♏30	13°R19	10°R54	14°R58	13♌35	7♏42	16♌43
F 2	20 42 33	9°46'55	10♍ 8	7° 1	18°45	20°53	18°15	6°49	21°33	13♏19	10♌53	14♌49	13°32	7°49	16°44
S 3	20 46 30	10°44'21	23°27	7°57	19°58	21°33	18°18	6°53	21°36	13°18	10°52	14°41	13°29	7°55	16°45
S 4	20 50 26	11°41'47	6♌58	8°50	21°11	22°12	18°21	6°58	21°38	13°18	10°50	14°34	13°25	8° 2	16°46
M 5	20 54 23	12°39'14	20°40	9°40	22°24	22°51	18°25	7° 3	21°41	13°17	10°49	14°30	13°22	8° 9	16°47
T 6	20 58 20	13°36'42	4♏32	10°27	23°37	23°30	18°29	7° 7	21°43	13°16	10°47	14°28	13°19	8°15	16°48
W 7	21 2 16	14°34'10	18°33	11°10	24°50	24° 9	18°33	7°12	21°46	13°16	10°46	14°D28	13°16	8°22	16°49
T 8	21 6 13	15°31'40	2♌43	11°49	26° 4	24°49	18°37	7°16	21°48	13°15	10°45	14°28	13°13	8°29	16°50
F 9	21 10 9	16°29'10	17° 1	12°25	27°17	25°28	18°41	7°21	21°51	13°14	10°43	14°R28	13°10	8°35	16°50
S 10	21 14 6	17°26'40	1♌24	12°57	28°30	26° 7	18°45	7°25	21°53	13°14	10°42	14°27	13° 6	8°42	16°51
S 11	21 18 2	18°24'12	15°49	13°24	29°44	26°46	18°50	7°29	21°55	13°13	10°41	14°24	13° 3	8°49	16°52
M12	21 21 59	19°21'45	0♌12	13°47	0♏57	27°25	18°55	7°33	21°58	13°12	10°39	14°18	13° 0	8°55	16°52
T 13	21 25 56	20°19'18	14°27	14° 5	2°10	28° 4	19° 0	7°37	22° 0	13°11	10°38	14°10	12°57	9° 2	16°53
W14	21 29 52	21°16'53	28°28	14°18	3°24	28°42	19° 5	7°41	22° 2	13°10	10°37	14° 0	12°54	9° 9	16°53
T 15	21 33 49	22°14'28	12♏11	14°27	4°37	29°21	19°10	7°45	22° 4	13° 9	10°35	13°49	12°50	9°15	16°53
F 16	21 37 45	23°12'06	25°33	14°R30	5°51	0♏ 0	19°15	7°49	22° 6	13° 8	10°34	13°39	12°47	9°22	16°54
S 17	21 41 42	24° 9'44	8♏33	14°27	7° 4	0°39	19°21	7°52	22° 8	13° 8	10°33	13°30	12°44	9°28	16°54
S 18	21 45 38	25° 7'24	21°11	14°19	8°18	1°18	19°26	7°56	22°10	13° 7	10°31	13°23	12°41	9°35	16°54
M19	21 49 35	26° 5'06	3♌29	14° 6	9°31	1°56	19°32	7°59	22°12	13° 6	10°30	13°18	12°38	9°42	16°54
T 20	21 53 31	27° 2'49	15°33	13°46	10°45	2°35	19°38	8° 3	22°14	13° 5	10°29	13°16	12°35	9°48	16°55
W21	21 57 28	28° 0'34	27°27	13°21	11°59	3°14	19°44	8° 6	22°16	13° 4	10°27	13°D15	12°31	9°55	16°R55
T 22	22 1 24	28°58'20	9♏15	12°51	13°12	3°52	19°51	8° 9	22°18	13° 2	10°26	13°R16	12°28	10° 2	16°55
F 23	22 5 21	29°56'09	21° 4	12°15	14°26	4°31	19°57	8°12	22°20	13° 1	10°25	13°15	12°25	10° 8	16°54
S 24	22 9 18	0♍53'58	2♌59	11°34	15°40	5° 9	20° 3	8°15	22°22	13° 0	10°23	13°14	12°22	10°15	16°54
S 25	22 13 14	1°51'50	15° 5	10°49	16°54	5°48	20°10	8°18	22°23	12°59	10°22	13°10	12°19	10°22	16°54
M26	22 17 11	2°49'43	27°25	10° 0	18° 8	6°26	20°17	8°21	22°25	12°58	10°21	13° 4	12°16	10°28	16°54
T 27	22 21 7	3°47'38	10♏ 2	9° 8	19°22	7° 5	20°24	8°23	22°27	12°57	10°20	12°55	12°12	10°35	16°54
W28	22 25 4	4°45'34	22°57	8°14	20°36	7°43	20°31	8°26	22°28	12°56	10°18	12°44	12° 9	10°42	16°53
T 29	22 29 0	5°43'32	6♏11	7°19	21°50	8°22	20°38	8°29	22°30	12°54	10°17	12°32	12° 6	10°48	16°53
F 30	22 32 57	6°41'32	19°41	6°23	23° 4	9° 0	20°46	8°31	22°31	12°53	10°16	12°19	12° 3	10°55	16°52
S 31	22 36 53	7♍39'33	3♌25	5♍29	24♏18	9♏38	20♏53	8♏33	22♏33	12♏52	10♌15	12♌ 8	12♌ 0	11♏ 1	16♌52

# SWISS EPHEMERIS for the year 2030

## SEPTEMBER 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	22 40 50	8 <sup>h</sup> 37'36"	17 <sup>h</sup> 51'19"	4°R37	25 <sup>h</sup> 02'32"	10 <sup>h</sup> 01'17"	21 <sup>h</sup> 11' 1"	8 <sup>h</sup> 11'35"	22 <sup>h</sup> 11'34"	12°R50	10°R14	11°R59	11 <sup>h</sup> 56'56"	11 <sup>h</sup> 11' 8"	16°R51
M 2	22 44 47	9°35'40"	1 <sup>h</sup> 11'20"	3 <sup>h</sup> 11'49"	26°46'	10°55'	21° 9'	8°37'	22°36'	12°Y49	10°11'	11°53'	11°53'	11°15'	16°R51
T 3	22 48 43	10°33'45"	15°25'	3° 5'	28° 0'	11°33'	21°17'	8°39'	22°37'	12°48'	10°11'	11°49'	11°50'	11°21'	16°50'
W 4	22 52 40	11°31'52"	29°31'	2°27'	29°14'	12°11'	21°25'	8°41'	22°38'	12°46'	10°10'	11°48'	11°47'	11°28'	16°49'
T 5	22 56 36	12°30'00"	13 <sup>h</sup> 57'38"	1°56'	0 <sup>h</sup> 11'28"	12°49'	21°33'	8°43'	22°39'	12°45'	10° 9'	11°48'	11°44'	11°35'	16°48'
F 6	23 0 33	13°28'10"	27°45'	1°31'	1°43'	13°27'	21°41'	8°45'	22°41'	12°44'	10° 8'	11°47'	11°41'	11°41'	16°47'
S 7	23 4 29	14°26'21"	11 <sup>h</sup> 55'50"	1°15'	2°57'	14° 5'	21°49'	8°46'	22°42'	12°42'	10° 7'	11°46'	11°37'	11°48'	16°46'
S 8	23 8 26	15°24'34"	25°52'	1°D 7'	4°11'	14°43'	21°58'	8°48'	22°43'	12°41'	10° 6'	11°41'	11°34'	11°55'	16°45'
M 9	23 12 22	16°22'48"	9 <sup>h</sup> 54'49"	1° 8'	5°25'	15°21'	22° 6'	8°49'	22°44'	12°39'	10° 5'	11°34'	11°31'	12° 1'	16°44'
T 10	23 16 19	17°21'03"	23°38'	1°18'	6°40'	15°59'	22°15'	8°50'	22°45'	12°38'	10° 4'	11°25'	11°28'	12° 8'	16°43'
W 11	23 20 16	18°19'20"	7 <sup>h</sup> 11'17"	1°37'	7°54'	16°37'	22°24'	8°51'	22°46'	12°36'	10° 3'	11°13'	11°25'	12°15'	16°42'
T 12	23 24 12	19°17'39"	20°41'	2° 5'	9° 8'	17°15'	22°33'	8°52'	22°47'	12°35'	10° 2'	11° 1'	11°21'	12°21'	16°41'
F 13	23 28 9	20°16'00"	3 <sup>h</sup> Y48"	2°41'	10°23'	17°53'	22°42'	8°53'	22°47'	12°33'	10° 1'	10°49'	11°18'	12°28'	16°40'
S 14	23 32 5	21°14'23"	16°38'	3°26'	11°37'	18°31'	22°51'	8°54'	22°48'	12°32'	10° 0'	10°38'	11°15'	12°35'	16°38'
S 15	23 36 2	22°12'47"	29° 9'	4°19'	12°52'	19° 8'	23° 1'	8°55'	22°49'	12°30'	9°59'	10°29'	11°12'	12°41'	16°37'
M 16	23 39 58	23°11'14"	11 <sup>h</sup> 58'24"	5°20'	14° 6'	19°46'	23°10'	8°55'	22°50'	12°29'	9°58'	10°24'	11° 9'	12°48'	16°36'
T 17	23 43 55	24° 9'43"	23°26'	6°27'	15°21'	20°24'	23°20'	8°56'	22°50'	12°27'	9°57'	10°20'	11° 6'	12°54'	16°34'
W 18	23 47 41	25° 8'14"	5 <sup>h</sup> 11'19"	7°41'	16°35'	21° 1'	23°29'	8°56'	22°51'	12°26'	9°56'	10°D19'	11° 2'	13° 1'	16°33'
T 19	23 51 48	26° 6'47"	17° 7'	9° 1'	17°50'	21°39'	23°39'	8°57'	22°51'	12°24'	9°55'	10°19'	10°59'	13° 8'	16°31'
F 20	23 55 45	27° 5'23"	28°56'	10°26'	19° 4'	22°17'	23°49'	8°57'	22°52'	12°23'	9°54'	10°R19'	10°56'	13°14'	16°29'
S 21	23 59 41	28° 4'00"	10 <sup>h</sup> 58'51"	11°56'	20°19'	22°54'	23°59'	8°R57'	22°52'	12°21'	9°54'	10°19'	10°53'	13°21'	16°28'
S 22	0 3 38	29° 2'40"	22°58'	13°30'	21°34'	23°32'	24° 9'	8°57'	22°53'	12°19'	9°53'	10°16'	10°50'	13°28'	16°26'
M 23	0 7 34	0 <sup>h</sup> 1'22"	5 <sup>h</sup> 02'22"	15° 7'	22°48'	24° 9'	24°19'	8°57'	22°53'	12°18'	9°52'	10°11'	10°47'	13°34'	16°24'
T 24	0 11 31	1° 0'06"	18° 6'	16°47'	24° 3'	24°47'	24°29'	8°56'	22°53'	12°16'	9°51'	10° 4'	10°43'	13°41'	16°22'
W 25	0 15 27	1°58'52"	1 <sup>h</sup> 11'13"	18°29'	25°18'	25°24'	24°39'	8°56'	22°53'	12°15'	9°50'	9°54'	10°40'	13°48'	16°20'
T 26	0 19 24	2°57'40"	14°42'	20°14'	26°33'	26° 1'	24°50'	8°55'	22°54'	12°13'	9°50'	9°44'	10°37'	13°54'	16°19'
F 27	0 23 20	3°56'31"	28°33'	21°59'	27°47'	26°39'	25° 0'	8°55'	22°54'	12°11'	9°49'	9°33'	10°34'	14° 1'	16°17'
S 28	0 27 17	4°55'23"	12 <sup>h</sup> 51'41"	23°46'	29° 2'	27°16'	25°11'	8°54'	22°R54'	12°10'	9°48'	9°23'	10°31'	14° 8'	16°15'
S 29	0 31 13	5°54'18"	27° 1'	25°34'	0 <sup>h</sup> 17'	27°53'	25°21'	8°53'	22°54'	12° 8'	9°48'	9°15'	10°27'	14°14'	16°12'
M 30	0 35 10	6 <sup>h</sup> 53'14"	11 <sup>h</sup> 11'27"	27 <sup>h</sup> 11'22"	1 <sup>h</sup> 32'	28°02'31"	25 <sup>h</sup> 11'32"	8 <sup>h</sup> 11'52"	22 <sup>h</sup> 11'54"	12°Y 6'	9°47'	9°9'	10°24'	14 <sup>h</sup> 11'21"	16°10'

Delta T = 88.64 sec.

## OCTOBER 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	0 39 7	7 <sup>h</sup> 52'12"	25 <sup>h</sup> 11'54"	29 <sup>h</sup> 11'11"	2 <sup>h</sup> 47'	29°02' 8"	25 <sup>h</sup> 11'43"	8°R51'	22°R53'	12°R 5'	9°R46'	9°R 6'	10°21'	14 <sup>h</sup> 11'27"	16°R 8'
W 2	0 43 3	8°51'12"	10 <sup>h</sup> 51'18"	1 <sup>h</sup> 0'	4° 1'	29°45'	25°54'	8 <sup>h</sup> 11'50"	22 <sup>h</sup> 11'53"	12°Y 3'	9°44'	9°D 6'	10°18'	14°34'	16°R 6'
T 3	0 47 0	9°50'14"	24°34'	2°48'	5°16'	0 <sup>h</sup> 11'22"	26° 5'	8°49'	22°53'	12° 1'	9°45'	9°4 6'	10°15'	14°41'	16° 4'
F 4	0 50 56	10°49'18"	8 <sup>h</sup> 53'41"	4°36'	6°31'	0°59'	26°16'	8°47'	22°53'	12° 0'	9°45'	9°R 7'	10°12'	14°47'	16° 2'
S 5	0 54 53	11°48'23"	22°39'	6°24'	7°46'	1°36'	26°27'	8°46'	22°53'	11°58'	9°44'	9° 6'	10° 8'	14°54'	15°59'
S 6	0 58 49	12°47'30"	6 <sup>h</sup> 52'26"	8°12'	9° 1'	2°13'	26°39'	8°44'	22°52'	11°56'	9°44'	9° 4'	10° 5'	15° 1'	15°57'
M 7	1 2 46	13°46'39"	20° 2'	9°59'	10°16'	2°50'	26°50'	8°43'	22°52'	11°55'	9°43'	8°59'	10° 2'	15° 7'	15°55'
T 8	1 6 42	14°45'49"	3 <sup>h</sup> 11'28"	11°45'	11°31'	3°27'	27° 1'	8°41'	22°51'	11°53'	9°43'	8°52'	9°59'	15°14'	15°52'
W 9	1 10 39	15°45'01"	16°42'	13°30'	12°46'	4° 4'	27°13'	8°39'	22°51'	11°51'	9°43'	8°43'	9°56'	15°21'	15°50'
T 10	1 14 36	16°44'16"	29°43'	15°15'	14° 1'	4°41'	27°24'	8°37'	22°50'	11°50'	9°42'	8°34'	9°53'	15°27'	15°47'
F 11	1 18 32	17°43'32"	12°Y30"	17° 0'	15°16'	5°18'	27°36'	8°35'	22°50'	11°48'	9°42'	8°25'	9°49'	15°34'	15°45'
S 12	1 22 29	18°42'50"	25° 4'	18°43'	16°31'	5°54'	27°48'	8°33'	22°49'	11°46'	9°42'	8°17'	9°46'	15°41'	15°42'
S 13	1 26 25	19°42'10"	7 <sup>h</sup> 58'24"	20°26'	17°46'	6°31'	27°59'	8°30'	22°48'	11°45'	9°41'	8°10'	9°43'	15°47'	15°40'
M 14	1 30 22	20°41'33"	19°32'	22° 8'	19° 1'	7° 8'	28°11'	8°28'	22°47'	11°43'	9°41'	8° 6'	9°40'	15°54'	15°37'
T 15	1 34 18	21°40'57"	1 <sup>h</sup> 11'29"	23°50'	20°16'	7°44'	28°23'	8°25'	22°47'	11°41'	9°41'	8° 4'	9°37'	16° 0'	15°34'
W 16	1 38 15	22°40'24"	13°19'	25°30'	21°31'	8°21'	28°35'	8°23'	22°46'	11°40'	9°41'	8°D 4'	9°33'	16° 7'	15°32'
T 17	1 42 11	23°39'53"	25° 6'	27°10'	22°46'	8°58'	28°47'	8°20'	22°45'	11°38'	9°40'	8° 5'	9°30'	16°14'	15°29'
F 18	1 46 8	24°39'25"	6 <sup>h</sup> 55'55"	28°50'	24° 1'	9°34'	28°59'	8°17'	22°44'	11°36'	9°40'	8° 7'	9°27'	16°20'	15°26'
S 19	1 50 5	25°38'58"	18°49'	0 <sup>h</sup> 11'29"	25°16'	10°11'	29°11'	8°15'	22°43'	11°35'	9°40'	8° 8'	9°24'	16°27'	15°23'
S 20	1 54 1	26°38'34"	0 <sup>h</sup> 02'55"	2° 7'	26°31'	10°47'	29°23'	8°12'	22°42'	11°33'	9°40'	8°R 8'	9°21'	16°34'	15°21'
M 21	1 57 58	27°38'12"	13°17'	3°44'	27°46'	11°24'	29°36'	8° 9'	22°41'	11°32'	9°40'	8° 7'	9°18'	16°40'	15°18'
T 22	2 1 54	28°37'53"	26° 0'	5°21'	29° 2'	12° 0'	29°48'	8° 5'	22°39'	11°30'	9°40'	8° 4'	9°14'	16°47'	15°15'
W 23	2 5 51	29°37'35"	9 <sup>h</sup> 11'8"	6°57'	0 <sup>h</sup> 11'17"	12°36'	0 <sup>h</sup> 21' 0"	8° 2'	22°38'	11°28'	9°D40'	7°59'	9°11'	16°54'	15°12'
T 24	2 9 47	0 <sup>h</sup> 11'37'20"	22°42'	8°33'	1°32'	13°13'	0°13'	7°59'	22°37'	11°27'	9°40'	7°53'	9° 8'	17° 0'	15° 9'
F 25	2 13 44	1°37'07"	6 <sup>h</sup> 54'42"	10° 8'	2°47'	13°49'	0°25'	7°55'	22°36'	11°25'	9°40'	7°47'	9° 5'	17° 7'	15° 7'
S 26	2 17 40	2°36'56"	21° 5'	11°42'	4° 2'	14°25'	0°38'	7°52'	22°34'	11°24'	9°40'	7°42'	9° 2'	17°14'	15° 4'
S 27	2 21 37	3°36'47"	5 <sup>h</sup> 11'45"	13°16'	5°17'	15° 1'	0°50'	7°48'	22°33'	11°22'	9°40'	7°38'	8°58'	17°20'	15° 1'
M 28	2 25 33	4°36'41"	20°35'	14°50'	6°33'	15°37'	1° 3'	7°45'	22°31'	11°21'	9°40'	7°35'	8°55'	17°27'	14°58'
T 29	2 29 30	5°36'36"	5 <sup>h</sup> 11'28"	16°23'	7°48'	16°13'	1°16'	7°41'	22°30'	11°19'	9°40'	7°D34'	8°52'	17°34'	14°55'
W 30	2 33 27	6°36'33"	20°15'	17°55'	9° 3'	16°49'	1°28'	7°37'	22°28'	11°18'	9°41'	7°34'	8°49'	17°40'	14°52'
T 31	2 37 23	7 <sup>h</sup> 11'36'31"	4 <sup>h</sup> 51'51"	19 <sup>h</sup> 11'27"	10 <sup>h</sup> 11'18"	17 <sup>h</sup> 11'25"	1 <sup>h</sup> 41'	7 <sup>h</sup> 11'33"	22 <sup>h</sup> 11'27"	11°Y16'	9°41'	7°36'	8°46'	17 <sup>h</sup> 11'47"	14°49'

Delta T = 88.77 sec.

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# SWISS EPHEMERIS for the year 2030

NOVEMBER 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
F 1	2 41 20	8♉36°32	19♊12	20♉59	11♉33	18♉1	1♉54	7°R29	22°R25	11°R15	9♉41	7♉37	8♉43	17♉53	14°R46
S 2	2 45 16	9°36'33	3♉14	22°30	12°49	18°37	2° 7	7♉25	22♉24	11°Y13	9°41	7°R38	8°39	18° 0	14♉43
S 3	2 49 13	10°36'37	16°59	24° 1	14° 4	19°13	2°20	7°21	22°22	11°12	9°42	7°38	8°36	18° 7	14°40
M 4	2 53 9	11°36'41	0♉25	25°31	15°19	19°49	2°33	7°17	22°20	11°11	9°42	7°37	8°33	18°13	14°37
T 5	2 57 6	12°36'48	13°35	27° 0	16°34	20°24	2°46	7°13	22°18	11° 9	9°42	7°34	8°30	18°20	14°34
W 6	3 1 3	13°36'55	26°29	28°29	17°50	21° 0	2°59	7° 9	22°17	11° 8	9°43	7°31	8°27	18°27	14°31
T 7	3 4 59	14°37'05	9°Y10	29°58	19° 5	21°36	3°12	7° 4	22°15	11° 7	9°43	7°27	8°24	18°33	14°28
F 8	3 8 56	15°37'16	21°37	1♉26	20°20	22°11	3°25	7° 0	22°13	11° 5	9°43	7°24	8°20	18°40	14°25
S 9	3 12 52	16°37'29	3♉54	2°54	21°35	22°47	3°38	6°56	22°11	11° 4	9°44	7°20	8°17	18°47	14°22
S 10	3 16 49	17°37'43	16° 1	4°21	22°50	23°22	3°51	6°51	22° 9	11° 3	9°44	7°18	8°14	18°53	14°19
M 11	3 20 45	18°38'00	28° 0	5°48	24° 6	23°57	4° 4	6°47	22° 7	11° 1	9°45	7°17	8°11	19° 0	14°16
T 12	3 24 42	19°38'18	9♉52	7°14	25°21	24°33	4°17	6°42	22° 5	11° 0	9°45	7°D17	8° 8	19° 7	14°13
W 13	3 28 38	20°38'38	21°41	8°39	26°36	25° 8	4°30	6°38	22° 3	10°59	9°46	7°17	8° 4	19°13	14°10
T 14	3 32 35	21°39'00	3♉27	10° 4	27°51	25°43	4°44	6°33	22° 1	10°58	9°47	7°18	8° 1	19°20	14° 7
F 15	3 36 32	22°39'23	15°16	11°28	29° 7	26°19	4°57	6°28	21°59	10°57	9°47	7°20	7°58	19°27	14° 4
S 16	3 40 28	23°39'49	27°11	12°51	0♉22	26°54	5°10	6°23	21°57	10°56	9°48	7°21	7°55	19°33	14° 1
S 17	3 44 25	24°40'16	9♉16	14°13	1°37	27°29	5°23	6°19	21°54	10°54	9°49	7°22	7°52	19°40	13°58
M 18	3 48 21	25°40'45	21°35	15°34	2°52	28° 4	5°37	6°14	21°52	10°53	9°49	7°R23	7°49	19°46	13°55
T 19	3 52 18	26°41'16	4♉13	16°53	4° 8	28°39	5°50	6° 9	21°50	10°52	9°50	7°23	7°45	19°53	13°52
W 20	3 56 14	27°41'48	17°15	18°12	5°23	29°14	6° 3	6° 4	21°48	10°51	9°51	7°22	7°42	20° 0	13°50
T 21	4 0 11	28°42'23	0♉42	19°29	6°38	29°49	6°17	5°59	21°46	10°50	9°52	7°21	7°39	20° 6	13°47
F 22	4 4 7	29°42'59	14°38	20°44	7°54	0♉23	6°30	5°55	21°43	10°49	9°52	7°20	7°36	20°13	13°44
S 23	4 8 4	0♉43'37	28°59	21°58	9° 9	0°58	6°44	5°50	21°41	10°48	9°53	7°19	7°33	20°20	13°41
S 24	4 12 0	1°44'16	13♉44	23° 9	10°24	1°33	6°57	5°45	21°39	10°47	9°54	7°19	7°30	20°26	13°38
M 25	4 15 57	2°44'58	28°46	24°18	11°39	2° 7	7°10	5°40	21°36	10°47	9°55	7°18	7°26	20°33	13°35
T 26	4 19 54	3°45'40	13♉56	25°24	12°55	2°42	7°24	5°35	21°34	10°46	9°56	7°D18	7°23	20°40	13°33
W 27	4 23 50	4°46'24	29° 4	26°27	14°10	3°16	7°37	5°30	21°31	10°45	9°57	7°19	7°20	20°46	13°30
T 28	4 27 47	5°47'09	14♉3	27°26	15°25	3°51	7°51	5°25	21°29	10°44	9°58	7°19	7°17	20°53	13°27
F 29	4 31 43	6°47'55	28°43	28°21	16°41	4°25	8° 4	5°20	21°27	10°43	9°59	7°19	7°14	21° 0	13°24
S 30	4 35 40	7♉48'43	13♉1	29♉11	17♉56	4♉59	8♉18	5♉15	21♉24	10♉Y43	10♉0	7°R19	7♉10	21♉6	13♉22

Delta T = 88.91 sec.

DECEMBER 2030

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	4 39 36	8♉49'31	26♉55	29♉56	19♉11	5♉33	8♉31	5°R10	21°R22	10°R42	10♉1	7°R19	7♉7	21♉13	13°R19
M 2	4 43 33	9°50'19	10♉23	0♉34	20°27	6° 7	8°45	5♉5	21♉19	10°Y41	10° 2	7°D19	7° 4	21°20	13♉16
T 3	4 47 30	10°51'09	23°28	1° 6	21°42	6°41	8°58	5° 0	21°17	10°40	10° 3	7♉19	7° 1	21°26	13°14
W 4	4 51 26	11°52'00	6°Y12	1°30	22°57	7°15	9°12	4°56	21°14	10°40	10° 4	7°19	6°58	21°33	13°11
T 5	4 55 23	12°52'51	18°40	1°46	24°12	7°49	9°25	4°51	21°12	10°39	10° 5	7°20	6°55	21°39	13° 9
F 6	4 59 19	13°53'44	0♉54	1°R52	25°28	8°23	9°38	4°46	21° 9	10°39	10° 6	7°20	6°51	21°46	13° 6
S 7	5 3 16	14°54'37	12°57	1°48	26°43	8°57	9°52	4°41	21° 7	10°38	10° 8	7°21	6°48	21°53	13° 4
S 8	5 7 12	15°55'31	24°54	1°33	27°58	9°30	10° 5	4°36	21° 4	10°38	10° 9	7°22	6°45	21°59	13° 1
M 9	5 11 9	16°56'26	6♉45	1° 7	29°13	10° 4	10°19	4°31	21° 1	10°37	10°10	7°R22	6°42	22° 6	12°59
T 10	5 15 5	17°57'22	18°33	0°29	0♉29	10°37	10°32	4°27	20°59	10°37	10°11	7°22	6°39	22°13	12°57
W 11	5 19 2	18°58'19	0♉21	29♉41	1°44	11°11	10°46	4°22	20°56	10°36	10°13	7°21	6°36	22°19	12°54
T 12	5 22 59	19°59'17	12°11	28°42	2°59	11°44	10°59	4°17	20°54	10°36	10°14	7°19	6°32	22°26	12°52
F 13	5 26 55	21° 0'16	24° 4	27°34	4°14	12°17	11°12	4°13	20°51	10°36	10°15	7°17	6°29	22°33	12°50
S 14	5 30 52	22° 1'16	6♉4	26°18	5°30	12°50	11°26	4° 8	20°49	10°35	10°16	7°15	6°26	22°39	12°48
S 15	5 34 48	23° 2'17	18°13	24°58	6°45	13°23	11°39	4° 4	20°46	10°35	10°18	7°13	6°23	22°46	12°46
M 16	5 38 45	24° 3'18	0♉34	23°35	8° 0	13°56	11°52	3°59	20°44	10°35	10°19	7°11	6°20	22°53	12°44
T 17	5 42 41	25° 4'21	13°10	22°12	9°15	14°29	12° 6	3°55	20°41	10°35	10°21	7° 9	6°16	22°59	12°42
W 18	5 46 38	26° 5'24	26° 5	20°53	10°31	15° 2	12°19	3°50	20°38	10°35	10°22	7°D 9	6°13	23° 6	12°40
T 19	5 50 34	27° 6'29	9♉22	19°39	11°46	15°35	12°32	3°46	20°36	10°35	10°23	7° 9	6°10	23°13	12°38
F 20	5 54 31	28° 7'34	23° 5	18°34	13° 1	16° 7	12°46	3°42	20°33	10°34	10°25	7°10	6° 7	23°19	12°36
S 21	5 58 28	29° 8'40	7♉13	17°37	14°16	16°40	12°59	3°38	20°31	10°34	10°26	7°12	6° 4	23°26	12°34
S 22	6 2 24	0♉9'48	21°46	16°51	15°32	17°12	13°12	3°33	20°28	10°D34	10°28	7°13	6° 1	23°33	12°32
M 23	6 6 21	1°10'55	6♉40	16°16	16°47	17°44	13°25	3°29	20°26	10°34	10°29	7°R14	5°57	23°39	12°30
T 24	6 10 17	2°12'04	21°49	15°51	18° 2	18°17	13°38	3°25	20°23	10°34	10°31	7°13	5°54	23°46	12°29
W 25	6 14 14	3°13'13	7♉3	15°37	19°17	18°49	13°52	3°21	20°21	10°35	10°32	7°11	5°51	23°53	12°27
T 26	6 18 10	4°14'22	22°14	15°D34	20°32	19°21	14° 5	3°18	20°18	10°35	10°34	7° 8	5°48	23°59	12°25
F 27	6 22 7	5°15'32	7♉10	15°39	21°48	19°52	14°18	3°14	20°16	10°35	10°35	7° 4	5°45	24° 6	12°24
S 28	6 26 3	6°16'41	21°44	15°54	23° 3	20°24	14°31	3°10	20°13	10°35	10°37	7° 0	5°42	24°12	12°22
S 29	6 30 0	7°17'51	5♉51	16°16	24°18	20°56	14°44	3° 6	20°11	10°35	10°39	6°56	5°38	24°19	12°21
M 30	6 33 57	8°19'01	19°29	16°46	25°33	21°27	14°57	3° 3	20° 9	10°36	10°40	6°53	5°35	24°26	12°20
T 31	6 37 53	9♉20'10	2°Y39	17♉22	26♉48	21♉58	15♉10	2♉59	20♉6	10°Y36	10♉42	6♉51	5♉32	24♉32	12♉18

Delta T = 89.04 sec.

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