

SWISS EPHEMERIS for the year 2188
heliocentric

JANUARY 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
T 1	6 41 43	10♁13'57	10♁10	16♁14	4♃59	11♃23	8♃44	17♁16	7♃37	27♃23	5♁10	1♁14
W 2	6 45 40	11°15'06	11° 9	22°20	6°35	12° 1	8°49	17°18	7°38	27°23	5°10	1°15
T 3	6 49 36	12°16'16	12° 9	28°19	8°11	12°39	8°55	17°20	7°39	27°24	5°10	1°17
F 4	6 53 33	13°17'26	13° 9	4♁10	9°47	13°17	9° 0	17°22	7°39	27°24	5°10	1°18
S 5	6 57 29	14°18'35	14°10	9°54	11°23	13°55	9° 6	17°24	7°40	27°24	5°11	1°19
S 6	7 1 26	15°19'44	15°10	15°28	12°59	14°34	9°11	17°26	7°41	27°25	5°11	1°21
M 7	7 5 22	16°20'53	16°12	20°53	14°35	15°12	9°16	17°28	7°41	27°25	5°11	1°22
T 8	7 9 19	17°22'02	17°13	26° 8	16°12	15°50	9°22	17°30	7°42	27°26	5°11	1°23
W 9	7 13 15	18°23'10	18°15	1♃14	17°48	16°28	9°27	17°32	7°43	27°26	5°12	1°25
T 10	7 17 12	19°24'18	19°17	6°10	19°24	17° 6	9°33	17°34	7°43	27°26	5°12	1°26
F 11	7 21 9	20°25'26	20°19	10°56	21° 0	17°44	9°38	17°36	7°44	27°27	5°12	1°27
S 12	7 25 5	21°26'34	21°22	15°33	22°36	18°22	9°43	17°38	7°45	27°27	5°12	1°29
S 13	7 29 2	22°27'41	22°25	20° 2	24°12	19° 0	9°49	17°40	7°45	27°27	5°13	1°30
M14	7 32 58	23°28'48	23°28	24°22	25°49	19°38	9°54	17°42	7°46	27°28	5°13	1°31
T 15	7 36 55	24°29'54	24°31	28°33	27°25	20°16	10° 0	17°44	7°47	27°28	5°13	1°33
W16	7 40 51	25°31'01	25°34	2♁37	29° 1	20°54	10° 5	17°46	7°47	27°29	5°13	1°34
T 17	7 44 48	26°32'07	26°37	6°34	0♁38	21°32	10°11	17°48	7°48	27°29	5°13	1°35
F 18	7 48 45	27°33'12	27°40	10°24	2°14	22°10	10°16	17°50	7°49	27°29	5°14	1°36
S 19	7 52 41	28°34'18	28°42	14° 7	3°50	22°48	10°21	17°52	7°49	27°30	5°14	1°38
S 20	7 56 38	29°35'23	29°44	17°44	5°27	23°26	10°27	17°54	7°50	27°30	5°14	1°39
M21	8 0 34	0♁36'28	0♁45	21°16	7° 3	24° 4	10°32	17°55	7°51	27°30	5°14	1°40
T 22	8 4 31	1°37'33	1°46	24°42	8°40	24°42	10°38	17°57	7°51	27°31	5°15	1°42
W23	8 8 27	2°38'38	2°47	28° 4	10°16	25°20	10°43	17°59	7°52	27°31	5°15	1°43
T 24	8 12 24	3°39'43	3°47	1♁21	11°53	25°57	10°48	18° 1	7°53	27°31	5°15	1°44
F 25	8 16 20	4°40'47	4°47	4°34	13°29	26°35	10°54	18° 3	7°53	27°32	5°15	1°46
S 26	8 20 17	5°41'51	5°46	7°44	15° 6	27°13	10°59	18° 5	7°54	27°32	5°16	1°47
S 27	8 24 14	6°42'54	6°46	10°50	16°43	27°51	11° 5	18° 7	7°55	27°33	5°16	1°48
M28	8 28 10	7°43'56	7°45	13°52	18°19	28°29	11°10	18° 9	7°55	27°33	5°16	1°50
T 29	8 32 7	8°44'58	8°44	16°52	19°56	29° 6	11°15	18°11	7°56	27°33	5°16	1°51
W30	8 36 3	9°45'58	9°43	19°49	21°33	29°44	11°21	18°13	7°57	27°34	5°16	1°52
T 31	8 40 0	10♁46'58	10♁43	22♁44	23♁10	0♁22	11♃26	18♁15	7♃57	27♃34	5♁17	1♁54

Delta T = 06m39s

FEBRUARY 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♂
F 1	8 43 56	11♁47'57	11♁42	25♁37	24♁46	0♁59	11♃32	18♁17	7♃58	27♃34	5♁17	1♁55
S 2	8 47 53	12°48'54	12°42	28°28	26°23	1°37	11°37	18°19	7°59	27°35	5°17	1°56
S 3	8 51 49	13°49'51	13°42	1♃18	28° 0	2°15	11°42	18°21	7°59	27°35	5°17	1°58
M 4	8 55 46	14°50'46	14°42	4° 6	29°37	2°52	11°48	18°23	8° 0	27°35	5°18	1°59
T 5	8 59 43	15°51'40	15°42	6°53	1♁14	3°30	11°53	18°25	8° 1	27°36	5°18	2° 0
W 6	9 3 39	16°52'33	16°43	9°39	2°51	4° 7	11°59	18°27	8° 1	27°36	5°18	2° 2
T 7	9 7 36	17°53'24	17°45	12°25	4°28	4°45	12° 4	18°29	8° 2	27°37	5°18	2° 3
F 8	9 11 32	18°54'14	18°46	15°10	6° 5	5°22	12°10	18°31	8° 3	27°37	5°19	2° 4
S 9	9 15 29	19°55'03	19°48	17°55	7°42	6° 0	12°15	18°33	8° 3	27°37	5°19	2° 6
S 10	9 19 25	20°55'50	20°50	20°39	9°19	6°37	12°20	18°35	8° 4	27°38	5°19	2° 7
M11	9 23 22	21°56'36	21°53	23°24	10°56	7°15	12°26	18°37	8° 5	27°38	5°19	2° 8
T 12	9 27 18	22°57'21	22°56	26° 9	12°33	7°52	12°31	18°39	8° 5	27°38	5°19	2°10
W13	9 31 15	23°58'04	23°58	28°55	14°10	8°29	12°37	18°41	8° 6	27°39	5°20	2°11
T 14	9 35 12	24°58'45	25° 1	1♁41	15°47	9° 7	12°42	18°43	8° 7	27°39	5°20	2°12
F 15	9 39 8	25°59'26	26° 4	4°29	17°24	9°44	12°47	18°45	8° 7	27°39	5°20	2°14
S 16	9 43 5	27° 0'05	27° 6	7°17	19° 2	10°21	12°53	18°47	8° 8	27°40	5°20	2°15
S 17	9 47 1	28° 0'43	28° 8	10° 7	20°39	10°58	12°58	18°49	8° 8	27°40	5°21	2°16
M18	9 50 58	29° 1'20	29° 9	12°59	22°16	11°35	13° 4	18°51	8° 9	27°41	5°21	2°18
T 19	9 54 54	0♁ 1'56	0♁11	15°52	23°53	12°12	13° 9	18°53	8°10	27°41	5°21	2°19
W20	9 58 51	1° 2'31	1°11	18°48	25°31	12°49	13°15	18°55	8°10	27°41	5°21	2°20
T 21	10 2 47	2° 3'04	2°12	21°45	27° 8	13°26	13°20	18°57	8°11	27°42	5°22	2°22
F 22	10 6 44	3° 3'37	3°11	24°46	28°45	14° 3	13°25	18°58	8°12	27°42	5°22	2°23
S 23	10 10 41	4° 4'08	4°11	27°49	0♁23	14°40	13°31	19° 0	8°12	27°42	5°22	2°24
S 24	10 14 37	5° 4'38	5°10	0♁55	2° 0	15°17	13°36	19° 2	8°13	27°43	5°22	2°26
M25	10 18 34	6° 5'06	6° 9	4° 4	3°37	15°54	13°42	19° 4	8°14	27°43	5°22	2°27
T 26	10 22 30	7° 5'33	7° 8	7°17	5°15	16°31	13°47	19° 6	8°14	27°44	5°23	2°28
W27	10 26 27	8° 5'58	8° 6	10°34	6°52	17° 8	13°53	19° 8	8°15	27°44	5°23	2°30
T 28	10 30 23	9° 6'22	9° 5	13°55	8°30	17°44	13°58	19°10	8°16	27°44	5°23	2°31
F 29	10 34 20	10♁ 6'43	10♁ 4	17♁21	10♁ 7	18♁21	14♃ 3	19♁12	8♃16	27♃45	5♁23	2♁32

Delta T = 06m40s

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SWISS EPHEMERIS for the year 2188
heliocentric

MARCH 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
S 1	10 38 16	11♈ 7'03	11♈ 2	20♌52	11♈45	18♈58	14♈ 9	19♈14	8♈17	27♈45	5♈24	2♈34
S 2	10 42 13	12° 7'22	12° 1	24°27	13°22	19°34	14°14	19°16	8°18	27°45	5°24	2°35
M 3	10 46 9	13° 7'38	13° 0	28° 9	15° 0	20°11	14°20	19°18	8°18	27°46	5°24	2°36
T 4	10 50 6	14° 7'52	14° 0	1♉56	16°37	20°47	14°25	19°20	8°19	27°46	5°24	2°38
W 5	10 54 3	15° 8'04	14°59	5°50	18°15	21°24	14°30	19°22	8°20	27°46	5°25	2°39
T 6	10 57 59	16° 8'15	15°59	9°50	19°52	22° 0	14°36	19°24	8°20	27°47	5°25	2°40
F 7	11 1 56	17° 8'23	16°59	13°58	21°30	22°37	14°41	19°26	8°21	27°47	5°25	2°42
S 8	11 5 52	18° 8'29	18° 0	18°13	23° 7	23°13	14°47	19°28	8°22	27°48	5°25	2°43
S 9	11 9 49	19° 8'33	19° 1	22°35	24°45	23°49	14°52	19°30	8°22	27°48	5°25	2°44
M10	11 13 45	20° 8'35	20° 3	27° 6	26°22	24°26	14°58	19°32	8°23	27°48	5°26	2°46
T 11	11 17 42	21° 8'35	21° 4	1♈45	28° 0	25° 2	15° 3	19°34	8°24	27°49	5°26	2°47
W12	11 21 39	22° 8'33	22° 6	6°33	29°37	25°38	15° 8	19°36	8°24	27°49	5°26	2°48
T 13	11 25 35	23° 8'29	23° 8	11°30	1♈15	26°14	15°14	19°38	8°25	27°49	5°26	2°50
F 14	11 29 32	24° 8'22	24°10	16°36	2°52	26°50	15°19	19°40	8°26	27°50	5°27	2°51
S 15	11 33 28	25° 8'14	25°12	21°51	4°30	27°26	15°25	19°42	8°26	27°50	5°27	2°52
S 16	11 37 25	26° 8'04	26°13	27°15	6° 7	28° 2	15°30	19°44	8°27	27°50	5°27	2°54
M17	11 41 21	27° 7'52	27°15	2♈49	7°45	28°38	15°36	19°46	8°28	27°51	5°27	2°55
T 18	11 45 18	28° 7'39	28°15	8°30	9°22	29°14	15°41	19°48	8°28	27°51	5°28	2°56
W19	11 49 14	29° 7'24	29°16	14°20	11° 0	29°50	15°47	19°50	8°29	27°52	5°28	2°58
T 20	11 53 11	0♈ 7'08	0♈16	20°17	12°37	0♈25	15°52	19°52	8°30	27°52	5°28	2°59
F 21	11 57 7	1° 6'49	1°16	26°21	14°15	1° 1	15°57	19°53	8°30	27°52	5°28	3° 0
S 22	12 1 4	2° 6'29	2°15	2♈31	15°52	1°37	16° 3	19°55	8°31	27°53	5°28	3° 2
S 23	12 5 1	3° 6'08	3°14	8°45	17°29	2°12	16° 8	19°57	8°32	27°53	5°29	3° 3
M24	12 8 57	4° 5'44	4°12	15° 2	19° 7	2°48	16°14	19°59	8°32	27°53	5°29	3° 4
T 25	12 12 54	5° 5'19	5°10	21°21	20°44	3°23	16°19	20° 1	8°33	27°54	5°29	3° 6
W26	12 16 50	6° 4'51	6° 8	27°41	22°21	3°59	16°25	20° 3	8°34	27°54	5°29	3° 7
T 27	12 20 47	7° 4'22	7° 6	3♈59	23°59	4°34	16°30	20° 5	8°34	27°54	5°30	3° 8
F 28	12 24 43	8° 3'51	8° 4	10°14	25°36	5° 9	16°35	20° 7	8°35	27°55	5°30	3°10
S 29	12 28 40	9° 3'17	9° 2	16°25	27°13	5°45	16°41	20° 9	8°36	27°55	5°30	3°11
S 30	12 32 36	10° 2'42	9°59	22°31	28°50	6°20	16°46	20°11	8°36	27°56	5°30	3°12
MB1	12 36 33	11♈ 2'04	10♈57	28♈30	0♈28	6♈55	16♈52	20♈13	8♈37	27♈56	5♈31	3♈14

Delta T = 06m40s

APRIL 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
T 1	12 40 30	12♈ 1'25	11♈55	4♈21	2♈ 5	7♈30	16♈57	20♈15	8♈38	27♈56	5♈31	3♈15
W 2	12 44 26	13° 0'43	12°53	10° 4	3°42	8° 5	17° 3	20°17	8°38	27°57	5°31	3°17
T 3	12 48 23	13°59'59	13°52	15°38	5°19	8°40	17° 8	20°19	8°39	27°57	5°31	3°18
F 4	12 52 19	14°59'12	14°50	21° 3	6°56	9°15	17°13	20°21	8°40	27°57	5°31	3°19
S 5	12 56 16	15°58'24	15°50	26°18	8°33	9°50	17°19	20°23	8°40	27°58	5°32	3°21
S 6	13 0 12	16°57'33	16°49	1♈23	10°10	10°25	17°24	20°25	8°41	27°58	5°32	3°22
M 7	13 4 9	17°56'40	17°49	6°19	11°47	11° 0	17°30	20°27	8°42	27°58	5°32	3°23
T 8	13 8 5	18°55'44	18°49	11° 5	13°24	11°34	17°35	20°29	8°42	27°59	5°32	3°25
W 9	13 12 2	19°54'46	19°50	15°42	15° 1	12° 9	17°41	20°31	8°43	27°59	5°33	3°26
T 10	13 15 59	20°53'45	20°51	20°10	16°38	12°44	17°46	20°33	8°44	28° 0	5°33	3°27
F 11	13 19 55	21°52'43	21°51	24°30	18°15	13°18	17°52	20°35	8°44	28° 0	5°33	3°29
S 12	13 23 52	22°51'38	22°52	28°41	19°51	13°53	17°57	20°37	8°45	28° 0	5°33	3°30
S 13	13 27 48	23°50'32	23°53	2♈45	21°28	14°27	18° 2	20°39	8°46	28° 1	5°34	3°31
M14	13 31 45	24°49'24	24°54	6°41	23° 5	15° 2	18° 8	20°41	8°46	28° 1	5°34	3°33
T 15	13 35 41	25°48'14	25°54	10°31	24°41	15°36	18°13	20°42	8°47	28° 1	5°34	3°34
W16	13 39 38	26°47'02	26°54	14°14	26°18	16°10	18°19	20°44	8°48	28° 2	5°34	3°35
T 17	13 43 34	27°45'48	27°54	17°51	27°55	16°44	18°24	20°46	8°48	28° 2	5°34	3°37
F 18	13 47 31	28°44'33	28°53	21°22	29°31	17°19	18°30	20°48	8°49	28° 3	5°35	3°38
S 19	13 51 28	29°43'16	29°52	24°49	1♈ 8	17°53	18°35	20°50	8°50	28° 3	5°35	3°40
S 20	13 55 24	0♈41'58	0♈51	28°10	2°44	18°27	18°41	20°52	8°50	28° 3	5°35	3°41
M21	13 59 21	1°40'37	1°49	1♈27	4°20	19° 1	18°46	20°54	8°51	28° 4	5°35	3°42
T 22	14 3 17	2°39'15	2°46	4°40	5°57	19°35	18°51	20°56	8°52	28° 4	5°36	3°44
W23	14 7 14	3°37'51	3°44	7°50	7°33	20° 9	18°57	20°58	8°52	28° 4	5°36	3°45
T 24	14 11 10	4°36'26	4°41	10°55	9° 9	20°42	19° 2	21° 0	8°53	28° 5	5°36	3°46
F 25	14 15 7	5°34'58	5°38	13°58	10°45	21°16	19° 8	21° 2	8°53	28° 5	5°36	3°48
S 26	14 19 3	6°33'29	6°35	16°58	12°22	21°50	19°13	21° 4	8°54	28° 5	5°37	3°49
S 27	14 23 0	7°31'58	7°31	19°55	13°58	22°23	19°19	21° 6	8°55	28° 6	5°37	3°50
M28	14 26 56	8°30'26	8°28	22°50	15°34	22°57	19°24	21° 8	8°55	28° 6	5°37	3°52
T 29	14 30 53	9°28'51	9°25	25°43	17°10	23°31	19°30	21°10	8°56	28° 7	5°37	3°53
W30	14 34 50	10♈27'14	10♈22	28♈34	18♈46	24♈ 4	19♈35	21♈12	8♈57	28♈ 7	5♈37	3♈54

Delta T = 06m40s

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SWISS EPHEMERIS for the year 2188
heliocentric

MAY 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
T 1	14 38 46	11♈25'36	11♈19	1♃23	20♈22	24♃38	19♃41	21♁14	8♃57	28♃ 7	5♁38	3♁56
F 2	14 42 43	12°23'55	12°16	4°11	21°58	25°11	19°46	21°16	8°58	28° 8	5°38	3°57
S 3	14 46 39	13°22'13	13°14	6°59	23°33	25°44	19°51	21°18	8°59	28° 8	5°38	3°59
S 4	14 50 36	14°20'28	14°12	9°45	25° 9	26°17	19°57	21°20	8°59	28° 8	5°38	4° 0
M 5	14 54 32	15°18'41	15°10	12°30	26°45	26°51	20° 2	21°22	9° 0	28° 9	5°39	4° 1
T 6	14 58 29	16°16'53	16° 9	15°15	28°21	27°24	20° 8	21°24	9° 1	28° 9	5°39	4° 3
W 7	15 2 26	17°15'02	17° 8	18° 0	29°56	27°57	20°13	21°26	9° 1	28° 9	5°39	4° 4
T 8	15 6 22	18°13'09	18° 8	20°44	1♃32	28°30	20°19	21°28	9° 2	28°10	5°39	4° 5
F 9	15 10 19	19°11'14	19° 7	23°29	3° 8	29° 3	20°24	21°30	9° 3	28°10	5°40	4° 7
S 10	15 14 15	20° 9'17	20° 7	26°14	4°43	29°36	20°30	21°31	9° 3	28°11	5°40	4° 8
S 11	15 18 12	21° 7'19	21° 7	29° 0	6°19	0♈ 9	20°35	21°33	9° 4	28°11	5°40	4°10
M12	15 22 8	22° 5'20	22° 7	1♃47	7°54	0°41	20°41	21°35	9° 5	28°11	5°40	4°11
T 13	15 26 5	23° 3'18	23° 7	4°34	9°30	1°14	20°46	21°37	9° 5	28°12	5°40	4°12
W14	15 30 1	24° 1'16	24° 7	7°23	11° 5	1°47	20°51	21°39	9° 6	28°12	5°41	4°14
T 15	15 33 58	24°59'12	25° 6	10°13	12°40	2°19	20°57	21°41	9° 7	28°12	5°41	4°15
F 16	15 37 55	25°57'06	26° 5	13° 4	14°16	2°52	21° 2	21°43	9° 7	28°13	5°41	4°16
S 17	15 41 51	26°55'00	27° 4	15°58	15°51	3°24	21° 8	21°45	9° 8	28°13	5°41	4°18
S 18	15 45 48	27°52'52	28° 2	18°53	17°26	3°57	21°13	21°47	9° 9	28°13	5°42	4°19
M19	15 49 44	28°50'43	29° 0	21°51	19° 2	4°29	21°19	21°49	9° 9	28°14	5°42	4°20
T 20	15 53 41	29°48'32	29°57	24°51	20°37	5° 2	21°24	21°51	9°10	28°14	5°42	4°22
W21	15 57 37	0♃46'21	0♃54	27°54	22°12	5°34	21°30	21°53	9°11	28°15	5°42	4°23
T 22	16 1 34	1°44'08	1°51	1♁ 0	23°47	6° 6	21°35	21°55	9°11	28°15	5°43	4°25
F 23	16 5 30	2°41'54	2°47	4°10	25°22	6°38	21°41	21°57	9°12	28°15	5°43	4°26
S 24	16 9 27	3°39'39	3°44	7°23	26°57	7°10	21°46	21°59	9°13	28°16	5°43	4°27
S 25	16 13 23	4°37'23	4°40	10°40	28°32	7°43	21°51	22° 1	9°13	28°16	5°43	4°29
M26	16 17 20	5°35'06	5°36	14° 2	0♃ 8	8°15	21°57	22° 3	9°14	28°16	5°43	4°30
T 27	16 21 17	6°32'47	6°32	17°27	1°43	8°46	22° 2	22° 5	9°15	28°17	5°44	4°31
W28	16 25 13	7°30'27	7°28	20°58	3°18	9°18	22° 8	22° 7	9°15	28°17	5°44	4°33
T 29	16 29 10	8°28'06	8°24	24°34	4°53	9°50	22°13	22° 9	9°16	28°18	5°44	4°34
F 30	16 33 6	9°25'44	9°20	28°16	6°28	10°22	22°19	22°11	9°17	28°18	5°44	4°36
S 31	16 37 3	10♃23'20	10♃16	2♃ 3	8♃ 3	10♈54	22♃24	22♁13	9♃17	28♃18	5♁45	4♁37

Delta T = 06m40s

JUNE 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♁
S 1	16 40 59	11♃20'54	11♃13	5♃57	9♃38	11♈25	22♃30	22♁15	9♃18	28♃19	5♁45	4♁38
M 2	16 44 56	12°18'28	12°10	9°58	11°12	11°57	22°35	22°16	9°19	28°19	5°45	4°40
T 3	16 48 53	13°15'59	13° 8	14° 5	12°47	12°29	22°41	22°18	9°19	28°19	5°45	4°41
W 4	16 52 49	14°13'30	14° 6	18°21	14°22	13° 0	22°46	22°20	9°20	28°20	5°46	4°42
T 5	16 56 46	15°10'59	15° 4	22°43	15°57	13°32	22°52	22°22	9°21	28°20	5°46	4°44
F 6	17 0 42	16° 8'27	16° 3	27°15	17°32	14° 3	22°57	22°24	9°21	28°20	5°46	4°45
S 7	17 4 39	17° 5'53	17° 2	1°54	19° 7	14°34	23° 2	22°26	9°22	28°21	5°46	4°47
S 8	17 8 35	18° 3'19	18° 1	6°42	20°42	15° 6	23° 8	22°28	9°23	28°21	5°47	4°48
M 9	17 12 32	19° 0'44	19° 0	11°39	22°17	15°37	23°13	22°30	9°23	28°22	5°47	4°49
T 10	17 16 28	19°58'07	19°59	16°46	23°52	16° 8	23°19	22°32	9°24	28°22	5°47	4°51
W11	17 20 25	20°55'30	20°59	22° 1	25°27	16°39	23°24	22°34	9°25	28°22	5°47	4°52
T 12	17 24 22	21°52'53	21°58	27°26	27° 1	17°10	23°30	22°36	9°25	28°23	5°47	4°53
F 13	17 28 18	22°50'14	22°57	2♃59	28°36	17°41	23°35	22°38	9°26	28°23	5°48	4°55
S 14	17 32 15	23°47'35	23°55	8°41	0♁11	18°12	23°41	22°40	9°27	28°23	5°48	4°56
S 15	17 36 11	24°44'56	24°53	14°31	1°46	18°43	23°46	22°42	9°27	28°24	5°48	4°58
M16	17 40 8	25°42'16	25°51	20°28	3°21	19°14	23°52	22°44	9°28	28°24	5°48	4°59
T 17	17 44 4	26°39'35	26°49	26°33	4°56	19°45	23°57	22°46	9°29	28°24	5°49	5° 0
W18	17 48 1	27°36'54	27°46	2♈42	6°31	20°16	24° 3	22°48	9°29	28°25	5°49	5° 2
T 19	17 51 57	28°34'13	28°43	8°57	8° 6	20°46	24° 8	22°50	9°30	28°25	5°49	5° 3
F 20	17 55 54	29°31'31	29°39	15°14	9°40	21°17	24°14	22°52	9°31	28°26	5°49	5° 5
S 21	17 59 51	0♃28'49	0♃35	21°33	11°15	21°48	24°19	22°54	9°31	28°26	5°50	5° 6
S 22	18 3 47	1°26'07	1°31	27°53	12°50	22°18	24°25	22°56	9°32	28°26	5°50	5° 7
M23	18 7 44	2°23'25	2°27	4♁11	14°25	22°49	24°30	22°57	9°33	28°27	5°50	5° 9
T 24	18 11 40	3°20'42	3°22	10°26	16° 0	23°19	24°35	22°59	9°33	28°27	5°50	5°10
W25	18 15 37	4°17'59	4°18	16°37	17°35	23°50	24°41	23° 1	9°34	28°27	5°50	5°11
T 26	18 19 33	5°15'15	5°13	22°42	19°10	24°20	24°46	23° 3	9°35	28°28	5°51	5°13
F 27	18 23 30	6°12'31	6° 9	28°41	20°45	24°50	24°52	23° 5	9°35	28°28	5°51	5°14
S 28	18 27 26	7° 9'47	7° 4	4♁32	22°20	25°21	24°57	23° 7	9°36	28°29	5°51	5°16
S 29	18 31 23	8° 7'02	8° 0	10°15	23°55	25°51	25° 3	23° 9	9°37	28°29	5°51	5°17
M30	18 35 20	9♃ 4'16	8♃57	15♁49	25♁30	26♈21	25♃ 8	23♁11	9♃37	28♃29	5♁52	5♁18

Delta T = 06m40s

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SWISS EPHEMERIS for the year 2188
heliocentric

JULY 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
T 1	18 39 16	10 ³ 1'30	9 ³ 53	21 ¹ 13	27 ²⁷ 5	26 ¹¹ 51	25 ¹⁴ 14	23 ¹³ 13	9 ³ 38	28 ¹¹ 30	5 ¹ 52	5 ² 20
W 2	18 43 13	10 ⁵ 58'43	10 ⁵ 50	26 ² 28	28 ²⁸ 40	27 ²⁷ 21	25 ¹⁹ 19	23 ¹⁵ 15	9 ³ 39	28 ¹² 30	5 ² 52	5 ² 21
T 3	18 47 9	11 ¹ 55'56	11 ¹ 48	1 ¹¹ 33	0 ¹¹ 15	27 ²⁵ 1	25 ²⁵ 25	23 ¹⁷ 17	9 ³ 39	28 ¹³ 30	5 ² 52	5 ² 23
F 4	18 51 6	12 ² 53'08	12 ² 46	6 ² 28	1 ⁵ 50	28 ²² 1	25 ³⁰ 30	23 ¹⁹ 19	9 ⁴ 40	28 ¹³ 31	5 ² 53	5 ² 24
S 5	18 55 2	13 ³ 50'20	13 ³ 44	11 ¹ 14	3 ² 25	28 ²¹ 1	25 ³⁶ 36	23 ²¹ 21	9 ⁴ 41	28 ¹³ 31	5 ² 53	5 ² 25
S 6	18 58 59	14 ⁴ 47'32	14 ⁴ 43	15 ¹ 51	5 ⁰ 0	29 ²¹ 1	25 ⁴¹ 41	23 ²³ 23	9 ⁴ 41	28 ¹³ 31	5 ² 53	5 ² 27
M 7	19 2 55	15 ⁴ 44'44	15 ⁴ 42	20 ¹ 18	6 ³ 35	29 ²¹ 1	25 ⁴⁷ 47	23 ²⁵ 25	9 ⁴ 42	28 ¹³ 32	5 ² 53	5 ² 28
T 8	19 6 52	16 ⁴ 41'55	16 ⁴ 41	24 ² 38	8 ¹⁰ 10	0 ² 21	25 ⁵² 52	23 ²⁷ 27	9 ⁴ 43	28 ¹³ 32	5 ² 54	5 ² 30
W 9	19 10 49	17 ⁴ 39'07	17 ⁴ 40	28 ² 49	9 ⁴ 45	0 ⁵ 1	25 ⁵⁸ 58	23 ²⁹ 29	9 ⁴ 43	28 ¹³ 33	5 ² 54	5 ² 31
T 10	19 14 45	18 ³ 36'19	18 ³ 39	2 ² 52	11 ² 21	1 ² 20	26 ³ 3	23 ³¹ 31	9 ⁴ 44	28 ¹³ 33	5 ² 54	5 ² 32
F 11	19 18 42	19 ³ 33'30	19 ³ 38	6 ⁴ 49	12 ² 56	1 ⁵ 50	26 ⁹ 9	23 ³³ 33	9 ⁴ 45	28 ¹³ 33	5 ² 54	5 ² 34
S 12	19 22 38	20 ³ 30'42	20 ³ 36	10 ³ 38	14 ³ 31	2 ¹ 19	26 ¹⁴ 14	23 ³⁵ 35	9 ⁴ 45	28 ¹³ 34	5 ² 54	5 ² 35
S 13	19 26 35	21 ² 27'54	21 ² 35	14 ² 21	16 ⁶ 6	2 ⁴ 49	26 ¹⁹ 19	23 ³⁷ 37	9 ⁴ 46	28 ¹³ 34	5 ² 55	5 ² 36
M14	19 30 31	22 ² 25'07	22 ² 33	17 ⁵ 58	17 ⁴ 41	3 ¹ 19	26 ²⁵ 25	23 ³⁸ 38	9 ⁴ 47	28 ¹³ 34	5 ² 55	5 ² 38
T 15	19 34 28	23 ² 22'20	23 ² 31	21 ² 29	19 ¹ 17	3 ⁴ 48	26 ³⁰ 30	23 ⁴⁰ 40	9 ⁴ 47	28 ¹³ 35	5 ² 55	5 ² 39
W16	19 38 25	24 ¹ 19'33	24 ¹ 29	24 ¹ 55	20 ² 52	4 ¹ 17	26 ³⁶ 36	23 ⁴² 42	9 ⁴ 48	28 ¹³ 35	5 ² 55	5 ² 41
T 17	19 42 21	25 ¹ 16'47	25 ¹ 26	28 ¹ 17	22 ² 27	4 ⁴ 47	26 ⁴¹ 41	23 ⁴⁴ 44	9 ⁴ 49	28 ¹³ 35	5 ² 56	5 ² 42
F 18	19 46 18	26 ¹ 14'02	26 ¹ 23	1 ¹¹ 34	24 ² 2	5 ¹ 16	26 ⁴⁷ 47	23 ⁴⁶ 46	9 ⁴ 49	28 ¹³ 36	5 ² 56	5 ² 43
S 19	19 50 14	27 ¹ 11'17	27 ¹ 19	4 ⁴ 47	25 ² 38	5 ⁴ 45	26 ⁵² 52	23 ⁴⁸ 48	9 ⁵ 50	28 ¹³ 36	5 ² 56	5 ² 45
S 20	19 54 11	28 ⁰ 8'33	28 ⁰ 16	7 ⁵ 56	27 ¹ 13	6 ¹ 15	26 ⁵⁸ 58	23 ⁵⁰ 50	9 ⁵ 51	28 ¹³ 37	5 ² 56	5 ² 46
M21	19 58 7	29 ⁰ 5'49	29 ⁰ 12	11 ¹ 1	28 ² 48	6 ⁴ 44	27 ³ 3	23 ⁵² 52	9 ⁵ 51	28 ¹³ 37	5 ² 57	5 ² 48
T 22	20 2 4	0 ² 3'06	0 ² 7	14 ⁴ 4	0 ¹ 24	7 ¹ 13	27 ⁹ 9	23 ⁵⁴ 54	9 ⁵ 52	28 ¹³ 37	5 ² 57	5 ² 49
W23	20 6 0	1 ⁰ 0'24	1 ⁰ 3	17 ⁴ 4	1 ⁵ 9	7 ⁴ 42	27 ¹⁴ 14	23 ⁵⁶ 56	9 ⁵ 53	28 ¹³ 38	5 ² 57	5 ² 50
T 24	20 9 57	1 ⁵ 57'42	1 ⁵ 58	20 ¹ 1	3 ³ 35	8 ¹ 11	27 ²⁰ 20	23 ⁵⁸ 58	9 ⁵ 53	28 ¹³ 38	5 ² 57	5 ² 52
F 25	20 13 54	2 ⁵ 5'01	2 ⁵ 4	22 ² 56	5 ¹⁰ 10	8 ⁴ 40	27 ²⁵ 25	24 ⁰ 0	9 ⁵ 54	28 ¹³ 38	5 ² 57	5 ² 53
S 26	20 17 50	3 ⁵ 2'21	3 ⁴ 9	25 ⁴ 48	6 ⁴ 46	9 ⁹ 9	27 ³¹ 31	24 ² 2	9 ⁵ 55	28 ¹³ 39	5 ² 58	5 ² 55
S 27	20 21 47	4 ⁴ 49'40	4 ⁴ 45	28 ³ 39	8 ² 21	9 ³ 38	27 ³⁶ 36	24 ⁴ 4	9 ⁵ 55	28 ¹³ 39	5 ² 58	5 ² 56
M28	20 25 43	5 ⁴ 47'01	5 ⁴ 41	1 ¹⁷ 29	9 ⁵ 57	10 ⁷ 7	27 ⁴² 42	24 ⁶ 6	9 ⁵ 56	28 ¹³ 40	5 ² 58	5 ² 57
T 29	20 29 40	6 ⁴ 44'21	6 ³ 37	4 ¹ 17	11 ³ 32	10 ³ 36	27 ⁴⁷ 47	24 ⁸ 8	9 ⁵ 57	28 ¹³ 40	5 ² 58	5 ² 59
W30	20 33 36	7 ⁴ 41'42	7 ⁴ 34	7 ⁴ 4	13 ⁸ 8	11 ⁵ 5	27 ⁵³ 53	24 ¹⁰ 10	9 ⁵ 57	28 ¹³ 40	5 ² 59	6 ⁰ 0
T 31	20 37 33	8 ³ 39'03	8 ³ 31	9 ¹⁷ 50	14 ¹ 43	11 ² 34	27 ⁵⁸ 58	24 ¹² 12	9 ⁵ 58	28 ¹³ 41	5 ² 59	6 ⁰ 2

Delta T = 06m40s

AUGUST 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♄
F 1	20 41 29	9 ² 36'25	9 ² 28	12 ¹⁷ 35	16 ¹ 19	12 ² 3	28 ¹¹ 4	24 ¹⁴ 14	9 ⁵ 59	28 ¹⁴ 41	5 ² 59	6 ⁰ 3
S 2	20 45 26	10 ³ 33'48	10 ³ 26	15 ² 20	17 ⁵ 55	12 ³ 31	28 ⁹ 9	24 ¹⁵ 15	9 ⁵ 59	28 ¹⁴ 41	5 ² 59	6 ⁰ 4
S 3	20 49 23	11 ³ 31'11	11 ³ 24	18 ⁵ 5	19 ³ 30	13 ⁰ 0	28 ¹⁵ 15	24 ¹⁷ 17	10 ⁰ 0	28 ¹⁴ 42	6 ⁰ 0	6 ⁰ 6
M 4	20 53 19	12 ² 28'34	12 ² 23	20 ⁵ 50	21 ⁶ 6	13 ² 29	28 ²⁰ 20	24 ¹⁹ 19	10 ¹ 1	28 ¹⁴ 42	6 ⁰ 0	6 ⁰ 7
T 5	20 57 16	13 ² 25'58	13 ² 22	23 ³ 35	22 ⁴ 2	13 ⁵ 57	28 ²⁵ 25	24 ²¹ 21	10 ¹ 1	28 ¹⁴ 42	6 ⁰ 0	6 ⁰ 9
W 6	21 1 12	14 ² 23'23	14 ² 21	26 ² 20	24 ¹ 17	14 ² 26	28 ³¹ 31	24 ²³ 23	10 ² 2	28 ¹⁴ 43	6 ⁰ 0	6 ⁰ 10
T 7	21 5 9	15 ² 20'49	15 ² 20	29 ⁶ 6	25 ⁵ 53	14 ⁵ 54	28 ³⁶ 36	24 ²⁵ 25	10 ³ 3	28 ¹⁴ 43	6 ⁰ 0	6 ⁰ 11
F 8	21 9 5	16 ¹ 18'16	16 ¹ 20	1 ¹³ 52	27 ² 29	15 ² 23	28 ⁴² 42	24 ²⁷ 27	10 ³ 3	28 ¹⁴ 44	6 ⁰ 1	6 ⁰ 13
S 9	21 13 2	17 ¹ 15'44	17 ¹ 19	4 ³ 39	29 ⁵ 5	15 ⁵ 51	28 ⁴⁷ 47	24 ²⁹ 29	10 ⁴ 4	28 ¹⁴ 44	6 ⁰ 1	6 ⁰ 14
S 10	21 16 58	18 ⁰ 13'12	18 ⁰ 18	7 ² 28	0 ⁸ 41	16 ² 20	28 ⁵³ 53	24 ³¹ 31	10 ⁵ 5	28 ¹⁴ 44	6 ⁰ 1	6 ⁰ 16
M11	21 20 55	19 ⁰ 10'42	19 ⁰ 17	10 ¹ 18	2 ¹ 16	16 ⁴ 48	28 ⁵⁸ 58	24 ³³ 33	10 ⁵ 5	28 ¹⁴ 45	6 ⁰ 1	6 ⁰ 17
T 12	21 24 52	20 ⁰ 8'13	20 ⁰ 16	13 ¹⁰ 10	3 ⁵ 52	17 ¹ 16	29 ⁴ 4	24 ³⁵ 35	10 ⁶ 6	28 ¹⁴ 45	6 ⁰ 2	6 ⁰ 19
W13	21 28 48	21 ⁰ 5'46	21 ⁰ 14	16 ³ 3	5 ² 28	17 ⁴ 45	29 ⁹ 9	24 ³⁷ 37	10 ⁶ 6	28 ¹⁴ 45	6 ⁰ 2	6 ⁰ 20
T 14	21 32 45	22 ⁰ 3'20	22 ⁰ 12	18 ⁵ 9	7 ⁴ 4	18 ¹ 13	29 ¹⁵ 15	24 ³⁹ 39	10 ⁷ 7	28 ¹⁴ 46	6 ⁰ 2	6 ⁰ 21
F 15	21 36 41	23 ⁰ 0'55	23 ⁰ 10	21 ⁵ 7	8 ⁴ 40	18 ⁴ 41	29 ²⁰ 20	24 ⁴¹ 41	10 ⁸ 8	28 ¹⁴ 46	6 ⁰ 2	6 ⁰ 23
S 16	21 40 38	23 ⁰ 58'32	24 ⁰ 7	24 ⁵ 7	10 ¹ 16	19 ⁹ 9	29 ²⁶ 26	24 ⁴³ 43	10 ⁸ 8	28 ¹⁴ 46	6 ⁰ 3	6 ⁰ 24
S 17	21 44 34	24 ⁰ 56'10	25 ⁰ 5	28 ⁰ 0	11 ⁵ 52	19 ³ 37	29 ³¹ 31	24 ⁴⁵ 45	10 ⁹ 9	28 ¹⁴ 47	6 ⁰ 3	6 ⁰ 26
M18	21 48 31	25 ⁰ 53'50	26 ⁰ 1	1 ¹¹ 7	13 ² 28	20 ⁶ 6	29 ³⁷ 37	24 ⁴⁷ 47	10 ¹⁰ 10	28 ¹⁴ 47	6 ⁰ 3	6 ⁰ 27
T 19	21 52 27	26 ⁰ 51'31	26 ⁰ 58	4 ¹ 16	15 ⁴ 4	20 ³ 34	29 ⁴² 42	24 ⁴⁹ 49	10 ¹⁰ 10	28 ¹⁴ 48	6 ⁰ 3	6 ⁰ 28
W20	21 56 24	27 ⁰ 49'14	27 ⁰ 54	7 ² 29	16 ⁴ 40	21 ² 2	29 ⁴⁸ 48	24 ⁵¹ 51	10 ¹¹ 11	28 ¹⁴ 48	6 ⁰ 4	6 ⁰ 30
T 21	22 0 21	28 ⁰ 46'58	28 ⁰ 50	10 ⁴ 7	18 ¹ 16	21 ³ 30	29 ⁵³ 53	24 ⁵² 52	10 ¹² 12	28 ¹⁴ 48	6 ⁰ 4	6 ⁰ 31
F 22	22 4 17	29 ⁰ 44'43	29 ⁰ 46	14 ⁴ 8	19 ⁵ 53	21 ⁵ 58	29 ⁵⁹ 59	24 ⁵⁴ 54	10 ¹² 12	28 ¹⁴ 49	6 ⁰ 4	6 ⁰ 33
S 23	22 8 14	0 ¹ 42'30	0 ¹ 42	17 ³ 34	21 ² 29	22 ² 26	0 ¹ 4	24 ⁵⁶ 56	10 ¹³ 13	28 ¹⁴ 49	6 ⁰ 4	6 ⁰ 34
S 24	22 12 10	1 ⁴ 0'19	1 ³ 38	21 ⁵ 5	23 ⁵ 5	22 ⁵ 54	0 ¹⁰ 10	24 ⁵⁸ 58	10 ¹⁴ 14	28 ¹⁴ 49	6 ⁰ 4	6 ⁰ 35
M25	22 16 7	2 ³ 38'08	2 ³ 34	24 ⁴ 41	24 ⁴ 41	23 ² 22	0 ¹⁵ 15	25 ⁰ 0	10 ¹⁴ 14	28 ¹⁴ 50	6 ⁰ 5	6 ⁰ 37
T 26	22 20 3	3 ³ 35'59	3 ³ 30	28 ² 23	26 ¹ 18	23 ⁴ 49	0 ² 21	25 ² 2	10 ¹⁵ 15	28 ¹⁴ 50	6 ⁰ 5	6 ⁰ 38
W27	22 24 0	4 ³ 33'51	4 ² 27	2 ¹¹ 11	27 ⁵ 54	24 ¹ 17	0 ²⁶ 26	25 ⁴ 4	10 ¹⁶ 16	28 ¹⁴ 50	6 ⁰ 5	6 ⁰ 40
T 28	22 27 56	5 ³ 31'44	5 ² 24	6 ⁵ 5	29 ³ 30	24 ⁴ 45	0 ³² 32	25 ⁶ 6				

SWISS EPHEMERIS for the year 2188
heliocentric

SEPTEMBER 2188

00:00 UT

Day	Sid.t	Terra	☾	♃	♄	♅	♆	♁	♂	♆	♁	♃
M 1	22 43 43	9 ^h 23'30	9 ^h 16	22 ^h 52	5 ^h 56	26 ^h 36	0 ^h 54	25 ^h 14	10 ^h 19	28 ^h 52	6 ^h 06	6 ^h 47
T 2	22 47 39	10 ^h 21'29	10 ^h 15	27 ^h 23	7 ^h 32	27 ^h 03	0 ^h 59	25 ^h 16	10 ^h 20	28 ^h 53	6 ^h 07	6 ^h 48
W 3	22 51 36	11 ^h 19'30	11 ^h 15	2 ^h 03	9 ^h 09	27 ^h 31	1 ^h 05	25 ^h 18	10 ^h 20	28 ^h 53	6 ^h 07	6 ^h 50
T 4	22 55 32	12 ^h 17'33	12 ^h 14	6 ^h 52	10 ^h 45	27 ^h 59	1 ^h 10	25 ^h 20	10 ^h 21	28 ^h 53	6 ^h 07	6 ^h 51
F 5	22 59 29	13 ^h 15'37	13 ^h 14	11 ^h 49	12 ^h 22	28 ^h 26	1 ^h 16	25 ^h 22	10 ^h 22	28 ^h 54	6 ^h 07	6 ^h 52
S 6	23 3 25	14 ^h 13'42	14 ^h 14	16 ^h 56	13 ^h 58	28 ^h 54	1 ^h 21	25 ^h 24	10 ^h 22	28 ^h 54	6 ^h 07	6 ^h 54
S 7	23 7 22	15 ^h 11'50	15 ^h 14	22 ^h 11	15 ^h 35	29 ^h 21	1 ^h 27	25 ^h 25	10 ^h 23	28 ^h 55	6 ^h 08	6 ^h 55
M 8	23 11 18	16 ^h 9'58	16 ^h 14	27 ^h 36	17 ^h 12	29 ^h 49	1 ^h 32	25 ^h 27	10 ^h 24	28 ^h 55	6 ^h 08	6 ^h 57
T 9	23 15 15	17 ^h 8'09	17 ^h 13	3 ^h 10	18 ^h 48	0 ^h 16	1 ^h 38	25 ^h 29	10 ^h 24	28 ^h 55	6 ^h 08	6 ^h 58
W10	23 19 12	18 ^h 6'22	18 ^h 13	8 ^h 52	20 ^h 25	0 ^h 44	1 ^h 43	25 ^h 31	10 ^h 25	28 ^h 56	6 ^h 08	6 ^h 59
T 11	23 23 8	19 ^h 4'36	19 ^h 12	14 ^h 42	22 ^h 02	1 ^h 11	1 ^h 48	25 ^h 33	10 ^h 26	28 ^h 56	6 ^h 09	7 ^h 01
F 12	23 27 5	20 ^h 2'53	20 ^h 11	20 ^h 40	23 ^h 39	1 ^h 38	1 ^h 54	25 ^h 35	10 ^h 26	28 ^h 56	6 ^h 09	7 ^h 02
S 13	23 31 1	21 ^h 1'12	21 ^h 10	26 ^h 44	25 ^h 15	2 ^h 06	1 ^h 59	25 ^h 37	10 ^h 27	28 ^h 57	6 ^h 09	7 ^h 04
S 14	23 34 58	21 ^h 59'33	22 ^h 09	2 ^h 54	26 ^h 52	2 ^h 33	2 ^h 05	25 ^h 39	10 ^h 28	28 ^h 57	6 ^h 09	7 ^h 05
M15	23 38 54	22 ^h 57'56	23 ^h 07	9 ^h 09	28 ^h 29	3 ^h 00	2 ^h 10	25 ^h 41	10 ^h 28	28 ^h 57	6 ^h 10	7 ^h 07
T 16	23 42 51	23 ^h 56'21	24 ^h 04	15 ^h 26	0 ^h 56	3 ^h 27	2 ^h 16	25 ^h 43	10 ^h 29	28 ^h 58	6 ^h 10	7 ^h 08
W17	23 46 47	24 ^h 54'48	25 ^h 02	21 ^h 45	1 ^h 43	3 ^h 55	2 ^h 21	25 ^h 45	10 ^h 30	28 ^h 58	6 ^h 10	7 ^h 09
T 18	23 50 44	25 ^h 53'17	25 ^h 59	28 ^h 05	3 ^h 20	4 ^h 22	2 ^h 27	25 ^h 47	10 ^h 30	28 ^h 59	6 ^h 10	7 ^h 11
F 19	23 54 41	26 ^h 51'48	26 ^h 56	4 ^h 52	4 ^h 57	4 ^h 49	2 ^h 32	25 ^h 49	10 ^h 31	28 ^h 59	6 ^h 10	7 ^h 12
S 20	23 58 37	27 ^h 50'21	27 ^h 52	10 ^h 38	6 ^h 34	5 ^h 16	2 ^h 38	25 ^h 51	10 ^h 32	28 ^h 59	6 ^h 11	7 ^h 14
S 21	0 2 34	28 ^h 48'57	28 ^h 49	16 ^h 48	8 ^h 11	5 ^h 43	2 ^h 43	25 ^h 53	10 ^h 32	29 ^h 00	6 ^h 11	7 ^h 15
M22	0 6 30	29 ^h 47'34	29 ^h 45	22 ^h 54	9 ^h 48	6 ^h 10	2 ^h 49	25 ^h 55	10 ^h 33	29 ^h 00	6 ^h 11	7 ^h 17
T 23	0 10 27	0 ^h 46'13	0 ^h 42	28 ^h 52	11 ^h 25	6 ^h 37	2 ^h 54	25 ^h 57	10 ^h 34	29 ^h 00	6 ^h 11	7 ^h 18
W24	0 14 23	1 ^h 44'53	1 ^h 39	4 ^h 04	13 ^h 02	7 ^h 05	3 ^h 00	25 ^h 58	10 ^h 34	29 ^h 01	6 ^h 12	7 ^h 19
T 25	0 18 20	2 ^h 43'36	2 ^h 37	10 ^h 26	14 ^h 39	7 ^h 32	3 ^h 05	26 ^h 00	10 ^h 35	29 ^h 01	6 ^h 12	7 ^h 21
F 26	0 22 16	3 ^h 42'20	3 ^h 34	15 ^h 59	16 ^h 17	7 ^h 59	3 ^h 11	26 ^h 02	10 ^h 36	29 ^h 01	6 ^h 12	7 ^h 22
S 27	0 26 13	4 ^h 41'06	4 ^h 33	21 ^h 23	17 ^h 54	8 ^h 26	3 ^h 16	26 ^h 04	10 ^h 36	29 ^h 02	6 ^h 12	7 ^h 24
S 28	0 30 10	5 ^h 39'54	5 ^h 31	26 ^h 37	19 ^h 31	8 ^h 53	3 ^h 22	26 ^h 06	10 ^h 37	29 ^h 02	6 ^h 13	7 ^h 25
M29	0 34 6	6 ^h 38'43	6 ^h 30	1 ^h 42	21 ^h 08	9 ^h 19	3 ^h 27	26 ^h 08	10 ^h 38	29 ^h 03	6 ^h 13	7 ^h 27
T 30	0 38 3	7 ^h 37'34	7 ^h 30	6 ^h 37	22 ^h 45	9 ^h 46	3 ^h 33	26 ^h 10	10 ^h 38	29 ^h 03	6 ^h 13	7 ^h 28

Delta T = 06m41s

OCTOBER 2188

00:00 UT

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

SWISS EPHEMERIS for the year 2188
heliocentric

NOVEMBER 2188

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♅	♁	♆	♁	♁
S 1	2 44 12	9♁18'38	9♁13	23♁40	14♁44	23♁58	6♁29	27♁12	11♁ 0	29♁15	6♁20	8♁14
S 2	2 48 9	10°18'34	10°15	26°25	16°22	24°25	6°34	27°14	11° 0	29°15	6°21	8°15
M 3	2 52 5	11°18'32	11°16	29°11	17°59	24°51	6°40	27°16	11° 1	29°15	6°21	8°17
T 4	2 56 2	12°18'32	12°18	1♁57	19°36	25°17	6°45	27°18	11° 2	29°16	6°21	8°18
W 5	2 59 59	13°18'33	13°20	4°45	21°14	25°44	6°51	27°20	11° 2	29°16	6°21	8°20
T 6	3 3 55	14°18'37	14°22	7°34	22°51	26°10	6°56	27°22	11° 3	29°16	6°22	8°21
F 7	3 7 52	15°18'42	15°23	10°24	24°28	26°37	7° 2	27°24	11° 4	29°17	6°22	8°23
S 8	3 11 48	16°18'49	16°25	13°15	26° 6	27° 3	7° 7	27°26	11° 4	29°17	6°22	8°24
S 9	3 15 45	17°18'59	17°26	16° 9	27°43	27°29	7°13	27°28	11° 5	29°18	6°22	8°25
M10	3 19 41	18°19'10	18°27	19° 4	29°20	27°55	7°18	27°30	11° 6	29°18	6°23	8°27
T 11	3 23 38	19°19'24	19°28	22° 2	0♁57	28°22	7°24	27°32	11° 6	29°18	6°23	8°28
W12	3 27 35	20°19'39	20°28	25° 3	2°35	28°48	7°29	27°33	11° 7	29°19	6°23	8°30
T 13	3 31 31	21°19'56	21°28	28° 6	4°12	29°14	7°35	27°35	11° 8	29°19	6°23	8°31
F 14	3 35 28	22°20'16	22°28	1♁13	5°49	29°41	7°40	27°37	11° 8	29°19	6°24	8°33
S 15	3 39 24	23°20'37	23°27	4°22	7°26	0♁ 7	7°46	27°39	11° 9	29°20	6°24	8°34
S 16	3 43 21	24°21'00	24°26	7°36	9° 3	0°33	7°51	27°41	11°10	29°20	6°24	8°36
M17	3 47 17	25°21'25	25°25	10°53	10°40	0°59	7°57	27°43	11°10	29°20	6°24	8°37
T 18	3 51 14	26°21'52	26°23	14°15	12°17	1°26	8° 2	27°45	11°11	29°21	6°24	8°39
W19	3 55 10	27°22'21	27°22	17°41	13°54	1°52	8° 8	27°47	11°12	29°21	6°25	8°40
T 20	3 59 7	28°22'51	28°20	21°12	15°31	2°18	8°13	27°49	11°12	29°22	6°25	8°41
F 21	4 3 4	29°23'23	29°19	24°48	17° 7	2°44	8°19	27°51	11°13	29°22	6°25	8°43
S 22	4 7 0	0♁23'56	0♁18	28°30	18°44	3°11	8°24	27°53	11°14	29°22	6°25	8°44
S 23	4 10 57	1°24'30	1°17	2♁18	20°21	3°37	8°30	27°55	11°14	29°23	6°26	8°46
M24	4 14 53	2°25'05	2°17	6°12	21°58	4° 3	8°35	27°57	11°15	29°23	6°26	8°47
T 25	4 18 50	3°25'42	3°17	10°13	23°34	4°29	8°41	27°59	11°16	29°23	6°26	8°49
W26	4 22 46	4°26'20	4°17	14°22	25°11	4°56	8°46	28° 1	11°16	29°24	6°26	8°50
T 27	4 26 43	5°26'59	5°18	18°37	26°48	5°22	8°52	28° 2	11°17	29°24	6°27	8°52
F 28	4 30 39	6°27'39	6°19	23° 0	28°24	5°48	8°57	28° 4	11°18	29°25	6°27	8°53
S 29	4 34 36	7°28'20	7°21	27°32	0♁ 1	6°14	9° 3	28° 6	11°18	29°25	6°27	8°55
S 30	4 38 33	8♁29'02	8♁22	2♁12	1♁37	6♁40	9♁ 8	28♁ 8	11♁19	29♁25	6♁27	8♁56

Delta T = 06m41s

DECEMBER 2188

00:00 UT

Day	Sid.t	Terra	☾	♁	♂	♄	♃	♅	♁	♆	♁	♁
M 1	4 42 29	9♁29'45	9♁25	7♁ 1	3♁14	7♁ 7	9♁14	28♁10	11♁20	29♁26	6♁28	8♁57
T 2	4 46 26	10°30'29	10°27	11°59	4°50	7°33	9°19	28°12	11°20	29°26	6°28	8°59
W 3	4 50 22	11°31'15	11°29	17° 5	6°26	7°59	9°25	28°14	11°21	29°26	6°28	9° 0
T 4	4 54 19	12°32'02	12°32	22°21	8° 2	8°25	9°30	28°16	11°22	29°27	6°28	9° 2
F 5	4 58 15	13°32'49	13°35	27°46	9°39	8°51	9°36	28°18	11°22	29°27	6°28	9° 3
S 6	5 2 12	14°33'39	14°37	3♁20	11°15	9°18	9°41	28°20	11°23	29°27	6°29	9° 5
S 7	5 6 8	15°34'29	15°40	9° 3	12°51	9°44	9°47	28°22	11°24	29°28	6°29	9° 6
M 8	5 10 5	16°35'21	16°42	14°53	14°27	10°10	9°52	28°24	11°24	29°28	6°29	9° 8
T 9	5 14 2	17°36'13	17°44	20°51	16° 3	10°36	9°58	28°26	11°25	29°29	6°29	9° 9
W10	5 17 58	18°37'07	18°45	26°56	17°39	11° 2	10° 3	28°28	11°26	29°29	6°30	9°11
T 11	5 21 55	19°38'03	19°47	3♁ 6	19°15	11°28	10° 9	28°30	11°26	29°29	6°30	9°12
F 12	5 25 51	20°38'59	20°48	9°21	20°51	11°55	10°14	28°31	11°27	29°30	6°30	9°14
S 13	5 29 48	21°39'57	21°48	15°38	22°27	12°21	10°20	28°33	11°28	29°30	6°30	9°15
S 14	5 33 44	22°40'56	22°48	21°57	24° 3	12°47	10°26	28°35	11°28	29°30	6°31	9°16
M15	5 37 41	23°41'56	23°48	28°17	25°39	13°13	10°31	28°37	11°29	29°31	6°31	9°18
T 16	5 41 37	24°42'57	24°47	4♁34	27°14	13°39	10°37	28°39	11°30	29°31	6°31	9°19
W17	5 45 34	25°43'59	25°46	10°49	28°50	14° 6	10°42	28°41	11°30	29°31	6°31	9°21
T 18	5 49 31	26°45'02	26°45	17° 0	0♁26	14°32	10°48	28°43	11°31	29°32	6°31	9°22
F 19	5 53 27	27°46'06	27°45	23° 5	2° 1	14°58	10°53	28°45	11°32	29°32	6°32	9°24
S 20	5 57 24	28°47'10	28°44	29° 3	3°37	15°24	10°59	28°47	11°32	29°33	6°32	9°25
S 21	6 1 20	29°48'15	29°43	4♁54	5°12	15°51	11° 4	28°49	11°33	29°33	6°32	9°27
M22	6 5 17	0♁49'20	0♁43	10°36	6°48	16°17	11°10	28°51	11°34	29°33	6°32	9°28
T 23	6 9 13	1°50'25	1°43	16° 9	8°23	16°43	11°15	28°53	11°34	29°34	6°33	9°30
W24	6 13 10	2°51'31	2°43	21°33	9°59	17° 9	11°21	28°55	11°35	29°34	6°33	9°31
T 25	6 17 6	3°52'37	3°43	26°47	11°34	17°35	11°26	28°57	11°36	29°34	6°33	9°33
F 26	6 21 3	4°53'43	4°44	1♁52	13°10	18° 2	11°32	28°59	11°36	29°35	6°33	9°34
S 27	6 25 0	5°54'49	5°46	6°46	14°45	18°28	11°37	29° 0	11°37	29°35	6°34	9°36
S 28	6 28 56	6°55'56	6°47	11°32	16°20	18°54	11°43	29° 2	11°38	29°36	6°34	9°37
M29	6 32 53	7°57'02	7°49	16° 8	17°55	19°21	11°48	29° 4	11°38	29°36	6°34	9°39
T 30	6 36 49	8°58'09	8°52	20°35	19°31	19°47	11°54	29° 6	11°39	29°36	6°34	9°40
W31	6 40 46	9♁59'16	9♁54	24♁54	21♁ 6	20♁13	11♁59	29♁ 8	11♁40	29♁37	6♁35	9♁41

Delta T = 06m41s

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