

SWISS EPHEMERIS for the year 1270

JANUARY 1270 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	7 10 42	18°16'23	20°46	17°55	6°44	27°57	19°48	6°R32	18°R 3	21°R45	0°32	24°R 3	23°40	20°II21	23°13		
T 2	7 14 39	19°17'28	20°59	19°36	7°59	28°44	19°53	6°27	18°R 2	21°R44	0°14	24°R 3	23°37	20°28	23°19		
F 3	7 18 35	20°18'32	14°58	21°17	9°14	29°31	19°58	6°23	18° 1	21°42	0°16	24° 2	23°33	20°35	23°26		
S 4	7 22 32	21°19'35	26°50	22°58	10°29	0°19	20° 2	6°18	18° 1	21°41	0°18	23°58	23°30	20°41	23°31		
S 5	7 26 28	22°20'38	8°II39	24°41	11°44	1° 6	20° 7	6°13	18° 0	21°40	0°20	23°52	23°27	20°48	23°37		
M 6	7 30 25	23°21'39	20°29	26°23	12°59	1°53	20°11	6° 9	17°59	21°38	0°22	23°43	23°24	20°55	23°43		
T 7	7 34 21	24°22'39	28°21	28° 7	14°14	2°41	20°15	6° 4	17°59	21°37	0°24	23°30	23°21	21° 1	23°49		
W 8	7 38 18	25°23'38	14°20	29°51	15°29	3°28	20°19	5°59	17°58	21°35	0°26	23°16	23°18	21° 8	23°55		
T 9	7 42 15	26°24'37	26°26	18°35	16°43	4°16	20°22	5°55	17°58	21°34	0°28	23° 2	23°14	21°15	24° 1		
F 10	7 46 11	27°25'34	8°40	3°20	17°58	5° 3	20°26	5°50	17°57	21°32	0°30	22°47	23°11	21°22	24° 7		
S 11	7 50 8	28°26'30	21° 2	5° 5	19°13	5°50	20°29	5°45	17°57	21°31	0°32	22°34	23° 8	21°28	24°12		
S 12	7 54 4	29°27'26	3°II33	6°51	20°28	6°38	20°32	5°40	17°56	21°29	0°34	22°24	23° 5	21°35	24°18		
M13	7 58 1	0°28'20	16°15	8°36	21°43	7°25	20°35	5°35	17°56	21°28	0°36	22°16	23° 2	21°42	24°24		
T 14	8 1 57	1°29'14	29° 8	10°22	22°57	8°13	20°38	5°30	17°56	21°26	0°38	22°12	22°58	21°48	24°29		
W15	8 5 54	2°30'06	12°14	12° 9	24°12	9° 0	20°40	5°25	17°56	21°25	0°40	22°10	22°55	21°55	24°35		
T 16	8 9 50	3°30'58	25°37	13°55	25°27	9°47	20°42	5°21	17°55	21°23	0°42	22°D10	22°52	22° 2	24°40		
F 17	8 13 47	4°31'49	9°II17	15°41	26°41	10°35	20°45	5°16	17°55	21°21	0°43	22°R10	22°49	22° 8	24°46		
S 18	8 17 44	5°32'39	23°18	17°26	27°56	11°22	20°47	5°11	17°D55	21°20	0°45	22° 9	22°46	22°15	24°51		
S 19	8 21 40	6°33'29	7°38	19°11	29°11	12°10	20°48	5° 6	17°55	21°18	0°47	22° 6	22°43	22°22	24°56		
M20	8 25 37	7°34'17	22°16	20°55	0°25	12°57	20°50	5° 1	17°55	21°17	0°49	22° 0	22°39	22°29	25° 2		
T 21	8 29 33	8°35'04	7°37	22°37	1°40	13°45	20°52	4°56	17°56	21°15	0°51	21°51	22°36	22°35	25° 7		
W22	8 33 30	9°35'50	22° 4	24°18	2°54	14°32	20°53	4°51	17°56	21°13	0°52	21°41	22°33	22°42	25°12		
T 23	8 37 26	10°36'35	6°57	25°57	4° 9	15°20	20°54	4°46	17°56	21°12	0°54	21°30	22°30	22°49	25°17		
F 24	8 41 23	11°37'19	21°37	27°33	5°23	16° 7	20°55	4°42	17°56	21°10	0°56	21°19	22°27	22°55	25°22		
S 25	8 45 19	12°38'00	5°35	29° 7	6°38	16°55	20°55	4°37	17°57	21° 8	0°58	21°10	22°24	23° 2	25°27		
S 26	8 49 16	13°38'41	19°51	0°36	7°52	17°42	20°56	4°32	17°57	21° 7	0°59	21° 3	22°20	23° 9	25°32		
M27	8 53 13	14°39'19	3°V18	2° 2	9° 6	18°29	20°56	4°27	17°57	21° 5	1° 1	21° 0	22°17	23°16	25°37		
T 28	8 57 9	15°39'56	16°18	3°22	10°21	19°17	20°R56	4°22	17°58	21° 3	1° 3	20°D58	22°14	23°22	25°42		
W29	9 1 6	16°40'31	28°55	4°37	11°35	20° 4	20°56	4°18	17°58	21° 2	1° 4	20°58	22°11	23°29	25°47		
T 30	9 5 2	17°41'04	11°II12	5°46	12°49	20°52	20°56	4°13	17°59	21° 0	1° 6	20°59	22° 8	23°36	25°52		
F 31	9 8 59	18°41'36	23°II14	6°47	14°37	21°39	20°55	4°8	18°R 0	20°R58	1°37	20°R59	22°14	23°II42	25°57		

Delta T = 08m56s Julian Calendar 1 Jan. 1270 == Greg. Calendar 8 Jan. 1270

FEBRUARY 1270 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	9 12 55	19°42'05	5°II 8	7°41	15°18	22°27	20°R55	4°R 4	18°R 0	20°R57	1°39	20°R57	22°11	23°II49	26°11		
S 2	9 16 52	20°42'33	16°58	8°27	16°32	23°14	20°54	3°59	18° 1	20°R55	1°10	20°54	21°58	23°56	26° 6		
M 3	9 20 48	21°42'59	28°49	9° 4	17°46	24° 1	20°53	3°54	18° 2	20°53	1°12	20°48	21°55	24° 2	26°10		
T 4	9 24 45	22°43'23	10°54	9°31	19° 0	24°49	20°52	3°50	18° 3	20°52	1°13	20°39	21°52	24° 9	26°15		
W 5	9 28 42	23°43'45	22°49	9°49	20°14	25°36	20°50	3°45	18° 4	20°50	1°15	20°29	21°49	24°16	26°19		
T 6	9 32 38	24°44'05	5°II 3	9°R57	21°28	26°23	20°49	3°41	18° 5	20°48	1°16	20°18	21°45	24°23	26°23		
F 7	9 36 35	25°44'24	17°29	9°55	22°42	27°11	20°47	3°37	18° 6	20°47	1°18	20° 8	21°42	24°29	26°27		
S 8	9 40 31	26°44'40	0°II 7	9°43	23°55	27°58	20°45	3°32	18° 7	20°45	1°19	19°58	21°39	24°36	26°32		
S 9	9 44 28	27°44'55	12°57	9°22	25° 9	28°45	20°43	3°28	18° 8	20°43	1°21	19°51	21°36	24°43	26°36		
M10	9 48 24	28°45'08	25°58	8°52	26°23	29°32	20°41	3°24	18° 9	20°42	1°22	19°46	21°33	24°49	26°40		
T 11	9 52 21	29°45'19	9°II11	8°14	27°37	0°20	20°38	3°20	18°10	20°40	1°23	19°43	21°29	24°56	26°44		
W12	9 56 17	0°45'29	22°35	7°29	28°50	1° 7	20°35	3°16	18°12	20°38	1°24	19°D43	21°26	25° 3	26°48		
T 13	10 0 14	1°45'37	6°II10	6°38	0°V 4	1°54	20°32	3°12	18°13	20°37	1°26	19°43	21°23	25°10	26°51		
F 14	10 4 10	2°45'44	19°57	5°42	1°18	2°41	20°29	3° 8	18°14	20°35	1°27	19°45	21°20	25°16	26°55		
S 15	10 8 7	3°45'49	3°35	4°43	2°31	3°29	20°26	3° 4	18°16	20°33	1°28	19°R45	21°17	25°23	26°59		
S 16	10 12 4	4°45'52	18° 5	3°42	3°45	4°16	20°23	3° 0	18°17	20°32	1°29	19°44	21°14	25°30	27° 2		
M17	10 16 0	5°45'54	2°32	2°41	4°58	5° 3	20°19	2°56	18°19	20°30	1°31	19°42	21°10	25°36	27° 6		
T 18	10 19 57	6°45'54	16°51	1°41	6°11	5°50	20°15	2°53	18°20	20°29	1°32	19°37	21° 7	25°43	27° 9		
W19	10 23 53	7°45'53	18°19	0°43	7°25	6°37	20°12	2°49	18°22	20°27	1°33	19°31	21° 4	25°50	27°13		
T 20	10 27 50	8°45'50	15°45	29°49	8°38	7°24	20° 7	2°46	18°23	20°25	1°34	19°25	21° 1	25°57	27°16		
F 21	10 31 46	9°45'45	0°II 1	28°58	9°51	8°11	20° 3	2°42	18°25	20°24	1°35	19°18	20°58	26° 3	27°19		
S 22	10 35 43	10°45'38	14° 2	28°13	11° 4	8°58	19°59	2°39	18°27	20°22	1°36	19°13	20°55	26°10	27°22		
S 23	10 39 39	11°45'28	27°45	27°34	12°17	9°45	19°54	2°36	18°29	20°21	1°37	19° 9	20°51	26°17	27°25		
M24	10 43 36	12°45'17	11°V 5	27° 1	13°31	10°32	19°49	2°33	18°30	20°19	1°38	19° 7	20°48	26°23	27°28		
T 25	10 47 33	13°45'04	24° 3	26°34	14°43	11°19	19°45	2°29	18°32	20°18	1°39	19°D 7	20°45	26°30	27°31		
W26	10 51 29	14°44'48	6°34	26°13	15°56	12° 6	19°39	2°26	18°34	20°16	1°40	19° 8	20°42	26°37	27°34		
T 27	10 55 26	15°44'31	19° 0	25°59	17° 9	12°53	19°34	2°24	18°36	20°15	1°41	19°10	20°39	26°43	27°37		
F 28	10 59 22	16°44'11	1°II 6	25°51	18°V22	13°40	19°32	2°21	18°38	20°13	1°41	19°11	20°35	26°II50	27°40		

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SWISS EPHEMERIS for the year 1270

MARCH 1270 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	11 3 19	17°43'48	13II 2	25≈49	19Υ35	14✠27	19°R23	2°R18	18♁40	20°R12	1♁42	19°R12	20♁32	26II57	27♁42
S 2	11 7 15	18°43'24	24°54	25°53	20°47	15°14	19♁18	2♁15	18°42	20♁10	1°43	19♁12	20°29	27° 4	27°45
M 3	11 11 12	19°42'57	6♁47	26° 3	22° 0	16° 1	19°12	2°13	18°44	20° 9	1°44	19°11	20°26	27°10	27°47
T 4	11 15 8	20°42'28	18°45	26°18	23°13	16°47	19° 6	2°11	18°47	20° 8	1°44	19° 8	20°23	27°17	27°49
W 5	11 19 5	21°41'56	0♁52	26°38	24°25	17°34	19° 0	2° 8	18°49	20° 6	1°45	19° 4	20°20	27°24	27°52
T 6	11 23 2	22°41'22	13°12	27° 3	25°37	18°21	18°54	2° 6	18°51	20° 5	1°46	19° 0	20°16	27°30	27°54
F 7	11 26 58	23°40'46	25°47	27°33	26°50	19° 7	18°48	2° 4	18°53	20° 3	1°46	18°56	20°13	27°37	27°56
S 8	11 30 55	24°40'08	8♁38	28° 7	28° 2	19°54	18°42	2° 2	18°56	20° 2	1°47	18°52	20°10	27°44	27°58
S 9	11 34 51	25°39'27	21°46	28°45	29°14	20°41	18°35	2° 0	18°58	20° 1	1°48	18°49	20° 7	27°51	28° 0
M10	11 38 48	26°38'45	5♁10	29°27	0♁26	21°27	18°28	1°58	19° 0	20° 0	1°48	18°47	20° 4	27°57	28° 1
T 11	11 42 44	27°38'00	18°48	0♁13	1°38	22°14	18°22	1°56	19° 3	19°58	1°49	18°D47	20° 0	28° 4	28° 3
W12	11 46 41	28°37'13	2II38	1° 2	2°50	23° 0	18°15	1°55	19° 5	19°57	1°49	18°47	19°57	28°11	28° 5
T 13	11 50 37	29°36'25	16°37	1°55	4° 2	23°47	18° 8	1°53	19° 8	19°56	1°50	18°48	19°54	28°17	28° 6
F 14	11 54 34	0Υ35'35	0♁44	2°50	5°14	24°33	18° 1	1°52	19°10	19°55	1°50	18°50	19°51	28°24	28° 8
S 15	11 58 30	1°34'43	14°54	3°48	6°25	25°19	17°54	1°51	19°13	19°53	1°50	18°51	19°48	28°31	28° 9
S 16	12 2 27	2°33'49	29° 6	4°50	7°37	26° 6	17°47	1°49	19°16	19°52	1°51	18°R51	19°45	28°38	28°11
M17	12 6 24	3°32'53	13♁19	5°53	8°48	26°52	17°40	1°48	19°18	19°51	1°51	18°51	19°41	28°44	28°12
T 18	12 10 20	4°31'56	27°29	7° 0	10° 0	27°38	17°33	1°47	19°21	19°50	1°51	18°50	19°38	28°51	28°13
W19	12 14 17	5°30'57	11≈33	8° 8	11°11	28°25	17°25	1°46	19°24	19°49	1°52	18°49	19°35	28°58	28°14
T 20	12 18 13	6°29'56	25°31	9°19	12°23	29°11	17°18	1°46	19°26	19°48	1°52	18°47	19°32	29° 4	28°15
F 21	12 22 10	7°28'53	9✠18	10°33	13°34	29°57	17°10	1°45	19°29	19°47	1°52	18°46	19°29	29°11	28°16
S 22	12 26 6	8°27'48	22°52	11°48	14°45	0Υ43	17° 3	1°44	19°32	19°46	1°52	18°45	19°26	29°18	28°16
S 23	12 30 3	9°26'42	6Υ11	13° 5	15°56	1°29	16°55	1°44	19°35	19°45	1°52	18°44	19°22	29°25	28°17
M24	12 33 59	10°25'33	19°15	14°25	17° 7	2°15	16°48	1°44	19°38	19°44	1°52	18°D44	19°19	29°31	28°18
T 25	12 37 56	11°24'22	2♁ 2	15°46	18°18	3° 1	16°40	1°43	19°41	19°43	1°53	18°44	19°16	29°38	28°18
W26	12 41 53	12°23'09	14°33	17° 9	19°28	3°47	16°33	1°43	19°44	19°42	1°53	18°44	19°13	29°45	28°19
T 27	12 45 49	13°21'54	26°50	18°34	20°39	4°33	16°25	1°D43	19°47	19°41	1°R53	18°45	19°10	29°51	28°19
F 28	12 49 46	14°20'37	8II56	20° 1	21°50	5°19	16°17	1°43	19°50	19°40	1°53	18°46	19° 6	29°58	28°19
S 29	12 53 42	15°19'18	20°53	21°30	23° 0	6° 5	16°10	1°44	19°53	19°40	1°53	18°46	19° 3	0♁ 5	28°19
S 30	12 57 39	16°17'56	2♁46	23° 0	24°10	6°50	16° 2	1°44	19°56	19°39	1°52	18°46	19° 0	0°12	28°R19
M31	13 1 35	17°Υ16'32	14♁39	24✠32	25♁21	7Υ36	15♁54	1♁44	19°59	19♁38	1♁52	18°R46	18♁57	0♁18	28♁19

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APRIL 1270 JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	13 5 32	18Υ15'06	26♁37	26✠ 6	26♁31	8Υ22	15°R46	1♁45	20♁ 2	19°R37	1°R52	18♁46	18♁54	0♁25	28°R19
W 2	13 9 28	19°13'38	8♁44	27°41	27°41	9° 7	15♁39	1°45	20° 5	19♁37	1♁52	18°46	18°51	0°32	28♁19
T 3	13 13 25	20°12'07	21° 5	29°18	28°51	9°53	15°31	1°46	20° 8	19°36	1°52	18°46	18°47	0°38	28°19
F 4	13 17 22	21°10'35	3II43	0Υ57	0II 0	10°38	15°24	1°47	20°11	19°35	1°52	18°47	18°44	0°45	28°18
S 5	13 21 18	22° 9'00	16°41	2°38	1°10	11°24	15°16	1°48	20°14	19°35	1°51	18°47	18°41	0°52	28°18
S 6	13 25 15	23° 7'23	0♁ 1	4°20	2°20	12° 9	15° 8	1°49	20°17	19°34	1°51	18°47	18°38	0°59	28°17
M 7	13 29 11	24° 5'44	13°42	6° 4	3°29	12°55	15° 1	1°50	20°21	19°34	1°51	18°R47	18°35	1° 5	28°17
T 8	13 33 8	25° 4'03	27°43	7°50	4°38	13°40	14°53	1°51	20°24	19°33	1°50	18°47	18°32	1°12	28°16
W 9	13 37 4	26° 2'20	12II 0	9°37	5°47	14°25	14°46	1°53	20°27	19°33	1°50	18°47	18°28	1°19	28°15
T 10	13 41 1	27° 0'36	26°27	11°26	6°57	15°11	14°38	1°54	20°30	19°32	1°50	18°46	18°25	1°25	28°14
F 11	13 44 57	27°58'50	11♁ 1	13°17	8° 5	15°56	14°31	1°56	20°34	19°32	1°49	18°45	18°22	1°32	28°13
S 12	13 48 54	28°57'03	25°33	15°10	9°14	16°41	14°24	1°58	20°37	19°32	1°49	18°44	18°19	1°39	28°12
S 13	13 52 51	29°55'14	10♁ 1	17° 4	10°23	17°26	14°17	1°59	20°40	19°31	1°48	18°43	18°16	1°46	28°11
M14	13 56 47	0♁53'23	24°18	19° 0	11°31	18°11	14°10	2° 1	20°44	19°31	1°48	18°D43	18°12	1°52	28°10
T 15	14 0 44	1°51'31	8≈24	20°58	12°40	18°56	14° 2	2° 3	20°47	19°31	1°47	18°43	18° 9	1°59	28° 8
W16	14 4 40	2°49'38	22°15	22°58	13°48	19°41	13°56	2° 5	20°50	19°30	1°47	18°43	18° 6	2° 6	28° 7
T 17	14 8 37	3°47'43	5✠52	24°59	14°56	20°26	13°49	2° 8	20°54	19°30	1°46	18°44	18° 3	2°12	28° 6
F 18	14 12 33	4°45'47	19°15	27° 2	16° 4	21°11	13°42	2°10	20°57	19°30	1°45	18°45	18° 0	2°19	28° 4
S 19	14 16 30	5°43'49	2Υ23	29° 6	17°12	21°56	13°35	2°12	21° 1	19°30	1°45	18°47	17°57	2°26	28° 2
S 20	14 20 26	6°41'50	15°19	18°11	18°20	22°40	13°29	2°15	21° 4	19°30	1°44	18°R47	17°53	2°33	28° 1
M21	14 24 23	7°39'49	28° 2	3°18	19°27	23°25	13°22	2°18	21° 7	19°30	1°43	18°47	17°50	2°39	27°59
T 22	14 28 19	8°37'47	10♁33	5°27	20°34	24°10	13°16	2°20	21°11	19°30	1°43	18°46	17°47	2°46	27°57
W23	14 32 16	9°35'43	22°52	7°36	21°42	24°54	13° 9	2°23	21°14	19°D30	1°42	18°44	17°44	2°53	27°55
T 24	14 36 13	10°33'37	5II 2	9°46	22°49	25°39	13° 3	2°26	21°18	19°30	1°41	18°40	17°41	3° 0	27°53
F 25	14 40 9	11°31'30	17° 4	11°56	23°55	26°23	12°57	2°29	21°21	19°30	1°40	18°37	17°37	3° 6	27°51
S 26	14 44 6	12°29'21	28°59	14° 7	25° 2	27° 8	12°51	2°32	21°25	19°30	1°39	18°33	17°34	3°13	27°49
S 27	14 48 2	13°27'11	10♁51	16°18	26° 9	27°52	12°45	2°35	21°28	19°30	1°39	18°29	17°31	3°20	27°46
M28	14 51 59	14°24'59	22°44	18°29	27°15	28°37	12°40	2°39	21°32	19°30	1°38	18°27	17°28	3°26	27°44
T 29	14 55 55	15°22'45	4♁41	20°39	28°21	29°21	12°34	2°42	21°35	19°30	1°37	18°25	17°25	3°33	27°42
W30	14 59 52	16♁20'30	16♁46	22♁49	29II27	0♁ 5	12♁29	2♁45	21♁39	19♁30	1♁36	18°D24	17♁22	3♁40	27♁39

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SWISS EPHEMERIS for the year 1270

MAY 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
T 1	15 3 48	17♈18'12	29♎4	24♄57	0♄33	0♄49	12°R24	2♂49	21♄42	19♎31	1°R35	18♌25	17♌18	3♄47	27°R37	
F 2	15 7 45	18°15'53	11♎40	27° 5	1°38	1°33	12♌19	2°53	21°46	19°31	1♄34	18°26	17°15	3°53	27°R34	
S 3	15 11 42	19°13'33	24°38	29°11	2°43	2°17	12°14	2°56	21°49	19°31	1°33	18°28	17°12	4° 0	27°32	
S 4	15 15 38	20°11'11	8♌0	1♂15	3°49	3° 1	12° 9	3° 0	21°53	19°31	1°32	18°29	17° 9	4° 7	27°29	
M 5	15 19 35	21° 8'47	21°49	3°17	4°53	3°45	12° 4	3° 4	21°56	19°32	1°31	18°R29	17° 6	4°13	27°26	
T 6	15 23 31	22° 6'22	6♌3	5°17	5°58	4°29	12° 0	3° 8	22° 0	19°32	1°30	18°28	17° 3	4°20	27°23	
W 7	15 27 28	23° 3'56	20°38	7°14	7° 2	5°13	11°55	3°12	22° 3	19°33	1°29	18°26	16°59	4°27	27°20	
T 8	15 31 24	24° 1'29	5♄30	9° 9	8° 7	5°57	11°51	3°16	22° 7	19°33	1°28	18°22	16°56	4°34	27°18	
F 9	15 35 21	24°59'00	20°29	11° 2	9°11	6°41	11°47	3°21	22°10	19°34	1°26	18°17	16°53	4°40	27°15	
S 10	15 39 17	25°56'31	5♄27	12°52	10°14	7°24	11°43	3°25	22°14	19°34	1°25	18°11	16°50	4°47	27°12	
S 11	15 43 14	26°54'00	20°15	14°39	11°18	8° 8	11°39	3°29	22°17	19°35	1°24	18° 6	16°47	4°54	27° 8	
M12	15 47 11	27°51'29	4♌47	16°24	12°21	8°51	11°36	3°34	22°21	19°35	1°23	18° 3	16°43	5° 0	27° 5	
T 13	15 51 7	28°48'57	18°58	18° 5	13°24	9°35	11°33	3°38	22°24	19°36	1°22	18° 1	16°40	5° 7	27° 2	
W14	15 55 4	29°46'24	2♄47	19°44	14°26	10°18	11°29	3°43	22°28	19°37	1°21	18°D 1	16°37	5°14	26°59	
T 15	15 59 0	0♂43'50	16°15	21°20	15°28	11° 2	11°26	3°48	22°31	19°37	1°19	18° 1	16°34	5°21	26°55	
F 16	16 2 57	1°41'16	29°23	22°53	16°30	11°45	11°23	3°53	22°35	19°38	1°18	18° 3	16°31	5°27	26°52	
S 17	16 6 53	2°38'41	12♄15	24°23	17°32	12°28	11°21	3°57	22°38	19°39	1°17	18°R 4	16°28	5°34	26°49	
S 18	16 10 50	3°36'05	24°52	25°51	18°34	13°12	11°18	4° 2	22°42	19°40	1°16	18° 4	16°24	5°41	26°45	
M19	16 14 46	4°33'29	7♄17	27°15	19°35	13°55	11°16	4° 7	22°45	19°40	1°14	18° 2	16°21	5°48	26°42	
T 20	16 18 43	5°30'51	19°32	28°36	20°35	14°38	11°14	4°13	22°48	19°41	1°13	17°58	16°18	5°54	26°38	
W21	16 22 40	6°28'14	1♂40	29°54	21°36	15°21	11°12	4°18	22°52	19°42	1°12	17°52	16°15	6° 1	26°35	
T 22	16 26 36	7°25'35	13°41	1♄9	22°36	16° 4	11°10	4°23	22°55	19°43	1°10	17°44	16°12	6° 8	26°31	
F 23	16 30 33	8°22'55	25°38	2°21	23°36	16°47	11° 8	4°28	22°59	19°44	1° 9	17°34	16° 9	6°14	26°28	
S 24	16 34 29	9°20'15	7♄31	3°29	24°35	17°30	11° 7	4°34	23° 2	19°45	1° 8	17°25	16° 5	6°21	26°24	
S 25	16 38 26	10°17'34	19°22	4°35	25°34	18°13	11° 6	4°39	23° 6	19°46	1° 6	17°15	16° 2	6°28	26°20	
M26	16 42 22	11°14'52	1♂14	5°37	26°33	18°56	11° 5	4°45	23° 9	19°47	1° 5	17° 7	15°59	6°35	26°17	
T 27	16 46 19	12°12'09	13°11	6°35	27°31	19°38	11° 4	4°50	23°12	19°48	1° 3	17° 1	15°56	6°41	26°13	
W28	16 50 15	13° 9'25	25°14	7°30	28°28	20°21	11° 3	4°56	23°16	19°49	1° 2	16°57	15°53	6°48	26° 9	
T 29	16 54 12	14° 6'41	7♄30	8°21	29°26	21° 3	11° 2	5° 2	23°19	19°50	1° 1	16°56	15°49	6°55	26° 5	
F 30	16 58 9	15° 3'55	20° 2	9° 9	0♂23	21°46	11° 2	5° 7	23°22	19°51	0°59	16°D56	15°46	7° 1	26° 1	
S 31	17 2 5	16♂1'09	2♌55	9♄53	1♂19	22♄29	11°D 2	5♂13	23♄26	19♎53	0♄58	16♌56	15♌43	7♄8	25♄58	

Delta T = 08m55s Julian Calendar 1 May 1270 == Greg. Calendar 8 May 1270

JUNE 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
S 1	17 6 2	16♂58'22	16♌14	10♄33	2♂15	23♄11	11♌2	5♂19	23♄29	19♎54	0°R56	16°R57	15♌40	7♄15	25°R54	
M 2	17 9 58	17°55'34	0♌0	11° 9	3°10	23°53	11° 2	5°25	23°32	19°55	0♄55	16♌56	15°37	7°22	25°R50	
T 3	17 13 55	18°52'46	14°15	11°41	4° 5	24°36	11° 2	5°31	23°35	19°56	0°53	16°53	15°34	7°28	25°46	
W 4	17 17 51	19°49'57	28°56	12° 8	4°59	25°18	11° 3	5°37	23°39	19°57	0°52	16°48	15°30	7°35	25°42	
T 5	17 21 48	20°47'08	13♄59	12°31	5°53	26° 0	11° 4	5°43	23°42	19°59	0°50	16°41	15°27	7°42	25°38	
F 6	17 25 44	21°44'18	29°14	12°50	6°46	26°42	11° 5	5°50	23°45	20° 0	0°49	16°32	15°24	7°49	25°34	
S 7	17 29 41	22°41'28	14♄30	13° 4	7°39	27°24	11° 6	5°56	23°48	20° 1	0°47	16°23	15°21	7°55	25°30	
S 8	17 33 38	23°38'38	29°36	13°14	8°31	28° 6	11° 7	6° 2	23°52	20° 3	0°46	16°14	15°18	8° 2	25°27	
M 9	17 37 34	24°35'48	14♌24	13°19	9°22	28°48	11° 8	6° 8	23°55	20° 4	0°44	16° 7	15°15	8° 9	25°23	
T 10	17 41 31	25°32'57	28°47	13°R20	10°13	29°30	11°10	6°15	23°58	20° 6	0°43	16° 2	15°11	8°15	25°19	
W11	17 45 27	26°30'07	12♄42	13°15	11° 3	0♂12	11°12	6°21	24° 1	20° 7	0°41	16° 0	15° 8	8°22	25°15	
T 12	17 49 24	27°27'17	26°11	13° 7	11°52	0°54	11°14	6°28	24° 4	20° 9	0°40	15°D59	15° 5	8°29	25°11	
F 13	17 53 20	28°24'27	9♄15	12°54	12°40	1°36	11°16	6°34	24° 7	20°10	0°38	15°R59	15° 2	8°36	25° 7	
S 14	17 57 17	29°21'38	21°58	12°37	13°28	2°17	11°18	6°41	24°10	20°12	0°37	15°59	14°59	8°42	25° 3	
S 15	18 1 13	0♄18'48	4♄25	12°15	14°15	2°59	11°21	6°48	24°13	20°13	0°35	15°58	14°55	8°49	24°59	
M16	18 5 10	1°15'59	16°39	11°50	15° 1	3°41	11°23	6°54	24°16	20°15	0°34	15°54	14°52	8°56	24°55	
T 17	18 9 7	2°13'10	28°44	11°22	15°47	4°22	11°26	7° 1	24°19	20°16	0°32	15°48	14°49	9° 2	24°52	
W18	18 13 3	3°10'22	10♂43	10°50	16°31	5° 4	11°29	7° 8	24°22	20°18	0°31	15°39	14°46	9° 9	24°48	
T 19	18 17 0	4° 7'33	22°38	10°16	17°15	5°45	11°32	7°15	24°25	20°20	0°29	15°28	14°43	9°16	24°44	
F 20	18 20 56	5° 4'45	4♄30	9°40	17°57	6°26	11°35	7°21	24°28	20°21	0°28	15°14	14°40	9°23	24°40	
S 21	18 24 53	6° 1'57	16°22	9° 3	18°39	7° 8	11°39	7°28	24°30	20°23	0°26	15° 1	14°36	9°29	24°36	
S 22	18 28 49	6°59'09	28°14	8°25	19°20	7°49	11°43	7°35	24°33	20°25	0°25	14°47	14°33	9°36	24°32	
M23	18 32 46	7°56'21	10♂9	7°46	19°59	8°30	11°46	7°42	24°36	20°26	0°23	14°36	14°30	9°43	24°29	
T 24	18 36 43	8°53'33	22° 9	7° 9	20°38	9°11	11°50	7°49	24°39	20°28	0°22	14°27	14°27	9°50	24°25	
W25	18 40 39	9°50'46	4♂15	6°32	21°15	9°52	11°55	7°56	24°41	20°30	0°20	14°20	14°24	9°56	24°21	
T 26	18 44 36	10°47'58	16°32	5°57	21°51	10°33	11°59	8° 3	24°44	20°32	0°19	14°16	14°21	10° 3	24°18	
F 27	18 48 32	11°45'11	29° 3	5°24	22°26	11°14	12° 3	8°11	24°47	20°34	0°17	14°15	14°17	10°10	24°14	
S 28	18 52 29	12°42'23	11♌53	4°55	22°59	11°55	12° 8	8°18	24°49	20°35	0°16	14°14	14°14	10°16	24°10	
S 29	18 56 25	13°39'36	25° 6	4°29	23°31	12°36	12°13	8°25	24°52	20°37	0°15	14°14	14°11	10°23	24° 7	
M30	19 0 22	14♄36'49	8♌45	4♄7	24♂2	13♂17	12♌18	8♂32	24♄55	20♎39	0♄13	14♌13	14♌8	10♄30	24♄3	

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SWISS EPHEMERIS for the year 1270

JULY 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
T 1	19 4 18	15 [☉] 34'02	22 [♈] 52	3 [♁] R50	24 [♈] 31	13 [♈] 58	12 [♈] 23	8 [♈] 39	24 [♈] 57	20 [♈] 41	0 [♈] R12	14 [♈] R10	14 [♈] 5	10 [♈] 37	24 [♈] R 0	
W 2	19 8 15	16 [☉] 31'16	7 [♈] 27	3 [♁] 37	24 [♈] 59	14 [♈] 38	12 [♈] 28	8 [♈] 47	25 [♈] 0	20 [♈] 43	0 [♈] 310	14 [♈] 4	14 [♈] 1	10 [♈] 43	23 [♈] 56	
T 3	19 12 12	17 [☉] 28'30	22 [♈] 25	3 [♁] 30	25 [♈] 26	15 [♈] 19	12 [♈] 33	8 [♈] 54	25 [♈] 2	20 [♈] 45	0 [♈] 9	13 [♈] 56	13 [♈] 58	10 [♈] 50	23 [♈] 53	
F 4	19 16 8	18 [☉] 25'44	7 [♈] 30	3 [♁] D28	25 [♈] 50	15 [♈] 59	12 [♈] 39	9 [♈] 1	25 [♈] 4	20 [♈] 47	0 [♈] 7	13 [♈] 46	13 [♈] 55	10 [♈] 57	23 [♈] 50	
S 5	19 20 5	19 [☉] 22'59	23 [♈] 0	3 [♁] 32	26 [♈] 13	16 [♈] 40	12 [♈] 44	9 [♈] 9	25 [♈] 7	20 [♈] 49	0 [♈] 6	13 [♈] 35	13 [♈] 52	11 [♈] 4	23 [♈] 46	
S 6	19 24 1	20 [☉] 20'14	8 [♈] 13	3 [♁] 42	26 [♈] 34	17 [♈] 20	12 [♈] 50	9 [♈] 16	25 [♈] 9	20 [♈] 51	0 [♈] 5	13 [♈] 25	13 [♈] 49	11 [♈] 10	23 [♈] 43	
M 7	19 27 58	21 [☉] 17'30	23 [♈] 10	3 [♁] 57	26 [♈] 54	18 [♈] 1	12 [♈] 56	9 [♈] 23	25 [♈] 11	20 [♈] 53	0 [♈] 3	13 [♈] 17	13 [♈] 46	11 [♈] 17	23 [♈] 40	
T 8	19 31 54	22 [☉] 14'47	7 [♈] 43	4 [♁] 19	27 [♈] 11	18 [♈] 41	13 [♈] 2	9 [♈] 31	25 [♈] 14	20 [♈] 55	0 [♈] 2	13 [♈] 11	13 [♈] 42	11 [♈] 24	23 [♈] 37	
W 9	19 35 51	23 [☉] 12'05	21 [♈] 47	4 [♁] 46	27 [♈] 27	19 [♈] 21	13 [♈] 9	9 [♈] 38	25 [♈] 16	20 [♈] 57	0 [♈] 0	13 [♈] 7	13 [♈] 39	11 [♈] 30	23 [♈] 34	
T 10	19 39 47	24 [☉] 9'24	5 [♈] Y21	5 [♁] 20	27 [♈] 40	20 [♈] 1	13 [♈] 15	9 [♈] 46	25 [♈] 18	20 [♈] 59	29 [♈] 59	13 [♈] 6	13 [♈] 36	11 [♈] 37	23 [♈] 30	
F 11	19 43 44	25 [☉] 6'44	18 [♈] 28	5 [♁] 59	27 [♈] 52	20 [♈] 41	13 [♈] 22	9 [♈] 53	25 [♈] 20	21 [♈] 1	29 [♈] 58	13 [♈] 6	13 [♈] 33	11 [♈] 44	23 [♈] 27	
S 12	19 47 41	26 [☉] 4'06	1 [♈] 12	6 [♁] 45	28 [♈] 2	21 [♈] 22	13 [♈] 28	10 [♈] 1	25 [♈] 22	21 [♈] 3	29 [♈] 56	13 [♈] 6	13 [♈] 30	11 [♈] 51	23 [♈] 25	
S 13	19 51 37	27 [☉] 1'28	13 [♈] 37	7 [♁] 36	28 [♈] 9	22 [♈] 2	13 [♈] 35	10 [♈] 8	25 [♈] 25	21 [♈] 5	29 [♈] 55	13 [♈] 5	13 [♈] 26	11 [♈] 57	23 [♈] 22	
M14	19 55 34	27 [☉] 58'52	25 [♈] 47	8 [♁] 33	28 [♈] 14	22 [♈] 42	13 [♈] 42	10 [♈] 16	25 [♈] 27	21 [♈] 7	29 [♈] 54	13 [♈] 2	13 [♈] 23	12 [♈] 4	23 [♈] 19	
T 15	19 59 30	28 [☉] 56'16	7 [♈] II47	9 [♁] 36	28 [♈] 17	23 [♈] 21	13 [♈] 49	10 [♈] 23	25 [♈] 29	21 [♈] 9	29 [♈] 53	12 [♈] 56	13 [♈] 20	12 [♈] 11	23 [♈] 16	
W16	20 3 27	29 [☉] 53'42	19 [♈] 42	10 [♁] 44	28 [♈] R18	24 [♈] 1	13 [♈] 56	10 [♈] 31	25 [♈] 30	21 [♈] 11	29 [♈] 51	12 [♈] 48	13 [♈] 17	12 [♈] 17	23 [♈] 13	
T 17	20 7 23	0 [♈] 51'09	1 [♈] 33	11 [♁] 58	28 [♈] 17	24 [♈] 41	14 [♈] 4	10 [♈] 39	25 [♈] 32	21 [♈] 13	29 [♈] 50	12 [♈] 38	13 [♈] 14	12 [♈] 24	23 [♈] 11	
F 18	20 11 20	1 [♈] 48'37	13 [♈] 25	13 [♁] 17	28 [♈] 13	25 [♈] 21	14 [♈] 11	10 [♈] 46	25 [♈] 34	21 [♈] 15	29 [♈] 49	12 [♈] 25	13 [♈] 11	12 [♈] 31	23 [♈] 8	
S 19	20 15 16	2 [♈] 46'07	25 [♈] 18	14 [♁] 41	28 [♈] 7	26 [♈] 1	14 [♈] 19	10 [♈] 54	25 [♈] 36	21 [♈] 17	29 [♈] 48	12 [♈] 13	13 [♈] 7	12 [♈] 38	23 [♈] 5	
S 20	20 19 13	3 [♈] 43'37	7 [♈] 15	16 [♁] 10	27 [♈] 58	26 [♈] 40	14 [♈] 26	11 [♈] 1	25 [♈] 38	21 [♈] 20	29 [♈] 46	12 [♈] 0	13 [♈] 4	12 [♈] 44	23 [♈] 3	
M21	20 23 10	4 [♈] 41'08	19 [♈] 16	17 [♁] 43	27 [♈] 47	27 [♈] 20	14 [♈] 34	11 [♈] 9	25 [♈] 40	21 [♈] 22	29 [♈] 45	11 [♈] 49	13 [♈] 1	12 [♈] 51	23 [♈] 1	
T 22	20 27 6	5 [♈] 38'41	1 [♈] 23	19 [♁] 21	27 [♈] 34	27 [♈] 59	14 [♈] 42	11 [♈] 17	25 [♈] 41	21 [♈] 24	29 [♈] 44	11 [♈] 41	12 [♈] 58	12 [♈] 58	22 [♈] 58	
W23	20 31 3	6 [♈] 36'14	13 [♈] 38	21 [♁] 3	27 [♈] 18	28 [♈] 39	14 [♈] 50	11 [♈] 24	25 [♈] 43	21 [♈] 26	29 [♈] 43	11 [♈] 35	12 [♈] 55	13 [♈] 5	22 [♈] 56	
T 24	20 34 59	7 [♈] 33'49	26 [♈] 3	22 [♁] 48	27 [♈] 0	29 [♈] 18	14 [♈] 58	11 [♈] 32	25 [♈] 45	21 [♈] 28	29 [♈] 42	11 [♈] 31	12 [♈] 52	13 [♈] 11	22 [♈] 54	
F 25	20 38 56	8 [♈] 31'24	8 [♈] 40	24 [♁] 37	26 [♈] 40	29 [♈] 57	15 [♈] 7	11 [♈] 40	25 [♈] 46	21 [♈] 30	29 [♈] 41	11 [♈] D30	12 [♈] 48	13 [♈] 18	22 [♈] 52	
S 26	20 42 52	9 [♈] 29'00	21 [♈] 33	26 [♁] 28	26 [♈] 18	0 [♈] 37	15 [♈] 15	11 [♈] 47	25 [♈] 48	21 [♈] 33	29 [♈] 40	11 [♈] 30	12 [♈] 45	13 [♈] 25	22 [♈] 50	
S 27	20 46 49	10 [♈] 26'38	4 [♈] II45	28 [♁] 22	25 [♈] 53	1 [♈] 16	15 [♈] 24	11 [♈] 55	25 [♈] 49	21 [♈] 35	29 [♈] 39	11 [♈] R31	12 [♈] 42	13 [♈] 31	22 [♈] 48	
M28	20 50 45	11 [♈] 24'16	18 [♈] 19	0 [♈] 118	25 [♈] 26	1 [♈] 55	15 [♈] 32	12 [♈] 3	25 [♈] 50	21 [♈] 37	29 [♈] 38	11 [♈] 31	12 [♈] 39	13 [♈] 38	22 [♈] 46	
T 29	20 54 42	12 [♈] 21'56	2 [♈] 17	2 [♁] 16	24 [♈] 58	2 [♈] 34	15 [♈] 41	12 [♈] 10	25 [♈] 52	21 [♈] 39	29 [♈] 37	11 [♈] 29	12 [♈] 36	13 [♈] 45	22 [♈] 44	
W30	20 58 39	13 [♈] 19'37	16 [♈] 39	4 [♁] 15	24 [♈] 28	3 [♈] 13	15 [♈] 50	12 [♈] 18	25 [♈] 53	21 [♈] 41	29 [♈] 36	11 [♈] 25	12 [♈] 32	13 [♈] 52	22 [♈] 42	
T 31	21 2 35	14 [♈] 17'18	1 [♈] 22	6 [♁] 15	23 [♈] 56	3 [♈] 52	15 [♈] 59	12 [♈] 26	25 [♈] 54	21 [♈] 44	29 [♈] 35	11 [♈] 20	12 [♈] 29	13 [♈] 58	22 [♈] 40	

Delta T = 08m55s Julian Calendar 1 July 1270 == Greg. Calendar 8 July 1270

AUGUST 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁	♁
F 1	21 6 32	15 [☉] 15'01	16 [♈] 22	8 [♁] 16	23 [♈] R23	4 [♈] 31	16 [♈] 8	12 [♈] 33	25 [♈] 56	21 [♈] 46	29 [♈] R34	11 [♈] R12	12 [♈] 26	14 [♈] 5	22 [♈] R39	
S 2	21 10 28	16 [☉] 12'45	1 [♈] 29	10 [♁] 17	22 [♈] 48	5 [♈] 10	16 [♈] 17	12 [♈] 41	25 [♈] 57	21 [♈] 48	29 [♈] 33	11 [♈] 4	12 [♈] 23	14 [♈] 12	22 [♈] 37	
S 3	21 14 25	17 [☉] 10'31	16 [♈] 34	12 [♁] 18	22 [♈] 13	5 [♈] 48	16 [♈] 27	12 [♈] 48	25 [♈] 58	21 [♈] 50	29 [♈] 32	10 [♈] 56	12 [♈] 20	14 [♈] 19	22 [♈] 36	
M 4	21 18 21	18 [☉] 8'17	1 [♈] X27	14 [♁] 19	21 [♈] 36	6 [♈] 27	16 [♈] 36	12 [♈] 56	25 [♈] 59	21 [♈] 52	29 [♈] 31	10 [♈] 49	12 [♈] 17	14 [♈] 25	22 [♈] 34	
T 5	21 22 18	19 [☉] 6'06	16 [♈] 0	16 [♁] 19	20 [♈] 59	7 [♈] 6	16 [♈] 45	13 [♈] 4	26 [♈] 0	21 [♈] 55	29 [♈] 30	10 [♈] 45	12 [♈] 13	14 [♈] 32	22 [♈] 33	
W 6	21 26 14	20 [☉] 3'56	0 [♈] Y 7	18 [♁] 19	20 [♈] 22	7 [♈] 44	16 [♈] 55	13 [♈] 11	26 [♈] 1	21 [♈] 57	29 [♈] 29	10 [♈] 43	12 [♈] 10	14 [♈] 39	22 [♈] 32	
T 7	21 30 11	21 [☉] 1'47	13 [♈] 47	20 [♁] 18	19 [♈] 45	8 [♈] 23	17 [♈] 5	13 [♈] 19	26 [♈] 2	21 [♈] 59	29 [♈] 28	10 [♈] D42	12 [♈] 7	14 [♈] 45	22 [♈] 31	
F 8	21 34 8	21 [☉] 59'41	26 [♈] 59	22 [♁] 16	19 [♈] 8	9 [♈] 1	17 [♈] 14	13 [♈] 27	26 [♈] 3	22 [♈] 1	29 [♈] 28	10 [♈] 43	12 [♈] 4	14 [♈] 52	22 [♈] 30	
S 9	21 38 4	22 [☉] 57'36	9 [♈] 47	24 [♁] 13	18 [♈] 31	9 [♈] 40	17 [♈] 24	13 [♈] 34	26 [♈] 4	22 [♈] 3	29 [♈] 27	10 [♈] 44	12 [♈] 1	14 [♈] 59	22 [♈] 29	
S 10	21 42 1	23 [☉] 55'34	22 [♈] 14	26 [♁] 10	17 [♈] 55	10 [♈] 18	17 [♈] 34	13 [♈] 42	26 [♈] 5	22 [♈] 6	29 [♈] 26	10 [♈] R45	11 [♈] 58	15 [♈] 6	22 [♈] 28	
M11	21 45 57	24 [☉] 53'33	4 [♈] II26	28 [♁] 5	17 [♈] 20	10 [♈] 56	17 [♈] 44	13 [♈] 49	26 [♈] 5	22 [♈] 8	29 [♈] 25	10 [♈] 44	11 [♈] 54	15 [♈] 12	22 [♈] 27	
T 12	21 49 54	25 [☉] 51'34	16 [♈] 26	29 [♁] 59	16 [♈] 46	11 [♈] 35	17 [♈] 55	13 [♈] 57	26 [♈] 6	22 [♈] 10	29 [♈] 25	10 [♈] 42	11 [♈] 51	15 [♈] 19	22 [♈] 26	
W13	21 53 50	26 [☉] 49'37	28 [♈] 20	1 [♈] 51	16 [♈] 13	12 [♈] 13	18 [♈] 5	14 [♈] 4	26 [♈] 7	22 [♈] 12	29 [♈] 24	10 [♈] 38	11 [♈] 48	15 [♈] 26	22 [♈] 26	
T 14	21 57 47	27 [☉] 47'42	10 [♈] 12	3 [♁] 43												

SWISS EPHEMERIS for the year 1270

SEPTEMBER 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
M 1	23 8 45	15 ^h 18'11"	9 ^h 48'	3 ^h 51'	12 ^h 23'	24 ^h 5'	21 ^h 35'	16 ^h 24'	26 ^h R 9	22 ^h 54'	29 ^h R17	9 ^h R42	10 ^h 48'	17 ^h 34'	22 ^h 29'
T 2	23 12 41	16 ^h 16'49"	24 ^h 8'	5 ^h 21'	12 ^h 34'	24 ^h 42'	21 ^h 47'	16 ^h 31'	26 ^h 8 9	22 ^h 56'	29 ^h 17'	9 ^h 40'	10 ^h 44'	17 ^h 40'	22 ^h 30'
W 3	23 16 38	17 ^h 15'29"	8 ^h Y 8'	6 ^h 50'	12 ^h 47'	25 ^h 19'	21 ^h 59'	16 ^h 38'	26 ^h 8	22 ^h 58'	29 ^h 17'	9 ^h D39	10 ^h 41'	17 ^h 47'	22 ^h 32'
T 4	23 20 34	18 ^h 14'11"	21 ^h 45'	8 ^h 18'	13 ^h 2'	25 ^h 55'	22 ^h 10'	16 ^h 44'	26 ^h 8	23 ^h 0'	29 ^h D17	9 ^h 40'	10 ^h 38'	17 ^h 54'	22 ^h 33'
F 5	23 24 31	19 ^h 12'56"	4 ^h 8'58"	9 ^h 45'	13 ^h 19'	26 ^h 32'	22 ^h 22'	16 ^h 51'	26 ^h 7	23 ^h 2'	29 ^h 17'	9 ^h 41'	10 ^h 35'	18 ^h 0'	22 ^h 34'
S 6	23 28 28	20 ^h 11'42"	17 ^h 49'	11 ^h 11'	13 ^h 38'	27 ^h 8'	22 ^h 34'	16 ^h 58'	26 ^h 7	23 ^h 4'	29 ^h 17'	9 ^h 42'	10 ^h 32'	18 ^h 7'	22 ^h 35'
S 7	23 32 24	21 ^h 10'31"	0 ^h II20	12 ^h 35'	13 ^h 59'	27 ^h 45'	22 ^h 46'	17 ^h 5'	26 ^h 6	23 ^h 6'	29 ^h 17'	9 ^h 44'	10 ^h 29'	18 ^h 14'	22 ^h 37'
M 8	23 36 21	22 ^h 9'22"	12 ^h 34'	13 ^h 59'	14 ^h 21'	28 ^h 21'	22 ^h 58'	17 ^h 12'	26 ^h 5	23 ^h 8'	29 ^h 17'	9 ^h 45'	10 ^h 25'	18 ^h 21'	22 ^h 38'
T 9	23 40 17	23 ^h 8'16"	24 ^h 37'	15 ^h 21'	14 ^h 46'	28 ^h 58'	23 ^h 11'	17 ^h 18'	26 ^h 5	23 ^h 10'	29 ^h 18'	9 ^h R45	10 ^h 22'	18 ^h 27'	22 ^h 40'
W10	23 44 14	24 ^h 7'12"	6 ^h 32'	16 ^h 43'	15 ^h 12'	29 ^h 34'	23 ^h 23'	17 ^h 25'	26 ^h 4	23 ^h 12'	29 ^h 18'	9 ^h 45'	10 ^h 19'	18 ^h 34'	22 ^h 42'
T11	23 48 10	25 ^h 6'10"	18 ^h 24'	18 ^h 3'	15 ^h 40'	0 ^h II10	23 ^h 35'	17 ^h 32'	26 ^h 3	23 ^h 14'	29 ^h 18'	9 ^h 43'	10 ^h 16'	18 ^h 41'	22 ^h 44'
F12	23 52 7	26 ^h 5'10"	0 ^h II18	19 ^h 22'	16 ^h 9'	0 ^h 46'	23 ^h 47'	17 ^h 38'	26 ^h 2	23 ^h 16'	29 ^h 18'	9 ^h 42'	10 ^h 13'	18 ^h 47'	22 ^h 46'
S13	23 56 3	27 ^h 4'13"	12 ^h 18'	20 ^h 39'	16 ^h 40'	1 ^h 22'	24 ^h 0'	17 ^h 45'	26 ^h 1	23 ^h 18'	29 ^h 18'	9 ^h 40'	10 ^h 9'	18 ^h 54'	22 ^h 47'
S14	0 0 0	28 ^h 3'18"	24 ^h 27'	21 ^h 55'	17 ^h 12'	1 ^h 58'	24 ^h 12'	17 ^h 51'	26 ^h 0	23 ^h 20'	29 ^h 19'	9 ^h 38'	10 ^h 6'	19 ^h 1'	22 ^h 50'
M15	0 3 57	29 ^h 2'25"	6 ^h II47	23 ^h 10'	17 ^h 46'	2 ^h 34'	24 ^h 25'	17 ^h 58'	25 ^h 59'	23 ^h 22'	29 ^h 19'	9 ^h 37'	10 ^h 3'	19 ^h 8'	22 ^h 52'
T16	0 7 53	0 ^h II1'34"	19 ^h 20'	24 ^h 23'	18 ^h 21'	3 ^h 9'	24 ^h 37'	18 ^h 4'	25 ^h 58'	23 ^h 23'	29 ^h 19'	9 ^h 36'	10 ^h 0'	19 ^h 14'	22 ^h 54'
W17	0 11 50	1 ^h 0'46"	2 ^h II 7'	25 ^h 35'	18 ^h 57'	3 ^h 45'	24 ^h 50'	18 ^h 11'	25 ^h 57'	23 ^h 25'	29 ^h 20'	9 ^h 35'	9 ^h 57'	19 ^h 21'	22 ^h 56'
T18	0 15 46	1 ^h 59'59"	15 ^h 9'	26 ^h 44'	19 ^h 35'	4 ^h 21'	25 ^h 2'	18 ^h 17'	25 ^h 56'	23 ^h 27'	29 ^h 20'	9 ^h D35	9 ^h 54'	19 ^h 28'	22 ^h 59'
F19	0 19 43	2 ^h 59'15"	28 ^h 25'	27 ^h 52'	20 ^h 14'	4 ^h 56'	25 ^h 15'	18 ^h 23'	25 ^h 55'	23 ^h 29'	29 ^h 21'	9 ^h 35'	9 ^h 50'	19 ^h 34'	23 ^h 1'
S20	0 23 39	3 ^h 58'32"	11 ^h II54	28 ^h 58'	20 ^h 54'	5 ^h 32'	25 ^h 27'	18 ^h 29'	25 ^h 53'	23 ^h 31'	29 ^h 21'	9 ^h 36'	9 ^h 47'	19 ^h 41'	23 ^h 3'
S21	0 27 36	4 ^h 57'52"	25 ^h 35'	0 ^h II 1'	21 ^h 35'	6 ^h 7'	25 ^h 40'	18 ^h 35'	25 ^h 52'	23 ^h 33'	29 ^h 22'	9 ^h 36'	9 ^h 44'	19 ^h 48'	23 ^h 6'
M22	0 31 32	5 ^h 57'13"	9 ^h 1'26"	1 ^h 3'	22 ^h 18'	6 ^h 42'	25 ^h 53'	18 ^h 41'	25 ^h 51'	23 ^h 34'	29 ^h 22'	9 ^h 37'	9 ^h 41'	19 ^h 55'	23 ^h 9'
T23	0 35 29	6 ^h 56'36"	23 ^h 27'	2 ^h 1'	23 ^h 1'	7 ^h 17'	26 ^h 6'	18 ^h 47'	25 ^h 49'	23 ^h 36'	29 ^h 23'	9 ^h 37'	9 ^h 38'	20 ^h 1'	23 ^h 12'
W24	0 39 25	7 ^h 56'01"	7 ^h 36'	2 ^h 57'	23 ^h 45'	7 ^h 52'	26 ^h 18'	18 ^h 53'	25 ^h 48'	23 ^h 38'	29 ^h 23'	9 ^h R37	9 ^h 35'	20 ^h 8'	23 ^h 14'
T25	0 43 22	8 ^h 55'28"	21 ^h 50'	3 ^h 49'	24 ^h 31'	8 ^h 27'	26 ^h 31'	18 ^h 59'	25 ^h 47'	23 ^h 40'	29 ^h 24'	9 ^h 37'	9 ^h 31'	20 ^h 15'	23 ^h 17'
F26	0 47 19	9 ^h 54'56"	6 ^h II 7'	4 ^h 38'	25 ^h 17'	9 ^h 2'	26 ^h 44'	19 ^h 5'	25 ^h 45'	23 ^h 41'	29 ^h 25'	9 ^h D37	9 ^h 28'	20 ^h 22'	23 ^h 20'
S27	0 51 15	10 ^h 54'27"	20 ^h 24'	5 ^h 24'	26 ^h 4'	9 ^h 37'	26 ^h 57'	19 ^h 10'	25 ^h 43'	23 ^h 43'	29 ^h 25'	9 ^h 37'	9 ^h 25'	20 ^h 28'	23 ^h 23'
S28	0 55 12	11 ^h 53'59"	4 ^h II37	6 ^h 5'	26 ^h 52'	10 ^h 11'	27 ^h 10'	19 ^h 16'	25 ^h 42'	23 ^h 44'	29 ^h 26'	9 ^h 37'	9 ^h 22'	20 ^h 35'	23 ^h 26'
M29	0 59 8	12 ^h 53'33"	18 ^h 44'	6 ^h 41'	27 ^h 41'	10 ^h 46'	27 ^h 23'	19 ^h 22'	25 ^h 40'	23 ^h 46'	29 ^h 27'	9 ^h 37'	9 ^h 19'	20 ^h 42'	23 ^h 30'
T30	1 3 5	13 ^h 53'08"	2 ^h Y39	7 ^h II13	28 ^h 23'	11 ^h II20	27 ^h 36'	19 ^h 27'	25 ^h 39'	23 ^h 48'	29 ^h 28'	9 ^h R38	9 ^h 15'	20 ^h 48'	23 ^h 33'

Delta T = 08m54s Julian Calendar 1 Sept. 1270 == Greg. Calendar 8 Sept. 1270

OCTOBER 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
W 1	1 7 1	14 ^h 52'46"	16 ^h Y20	7 ^h II39	29 ^h II21	11 ^h II55	27 ^h 49'	19 ^h II33	25 ^h R37	23 ^h II49	29 ^h 28'	9 ^h R38	9 ^h 12'	20 ^h 55'	23 ^h 36'
T 2	1 10 58	15 ^h 52'26"	29 ^h 45'	7 ^h 59'	0 ^h II13	12 ^h 29'	28 ^h 2'	19 ^h 38'	25 ^h 35'	23 ^h 51'	29 ^h 29'	9 ^h 37'	9 ^h 9'	21 ^h 2'	23 ^h 40'
F 3	1 14 54	16 ^h 52'08"	12 ^h 8'51"	8 ^h 12'	1 ^h 5'	13 ^h 3'	28 ^h 15'	19 ^h 43'	25 ^h 33'	23 ^h 52'	29 ^h 30'	9 ^h 37'	9 ^h 6'	21 ^h 9'	23 ^h 43'
S 4	1 18 51	17 ^h 51'52"	25 ^h 39'	8 ^h R18	1 ^h 57'	13 ^h 37'	28 ^h 28'	19 ^h 48'	25 ^h 32'	23 ^h 54'	29 ^h 31'	9 ^h 36'	9 ^h 3'	21 ^h 15'	23 ^h 47'
S 5	1 22 48	18 ^h 51'38"	8 ^h II 9'	8 ^h 16'	2 ^h 51'	14 ^h 11'	28 ^h 41'	19 ^h 54'	25 ^h 30'	23 ^h 55'	29 ^h 32'	9 ^h 34'	9 ^h 0'	21 ^h 22'	23 ^h 50'
M 6	1 26 44	19 ^h 51'27"	20 ^h 25'	8 ^h 7'	3 ^h 45'	14 ^h 45'	28 ^h 54'	19 ^h 59'	25 ^h 28'	23 ^h 57'	29 ^h 33'	9 ^h 33'	8 ^h 56'	21 ^h 29'	23 ^h 54'
T 7	1 30 41	20 ^h 51'18"	28 ^h 28'	7 ^h 48'	4 ^h 40'	15 ^h 19'	29 ^h 7'	20 ^h 4'	25 ^h 26'	23 ^h 58'	29 ^h 34'	9 ^h 32'	8 ^h 53'	21 ^h 35'	23 ^h 58'
W 8	1 34 37	21 ^h 51'11"	14 ^h 24'	7 ^h 21'	5 ^h 35'	15 ^h 53'	29 ^h 20'	20 ^h 9'	25 ^h 24'	23 ^h 59'	29 ^h 35'	9 ^h 31'	8 ^h 50'	21 ^h 42'	24 ^h 2'
T 9	1 38 34	22 ^h 51'06"	26 ^h 17'	6 ^h 44'	6 ^h 31'	16 ^h 26'	29 ^h 33'	20 ^h 13'	25 ^h 22'	24 ^h 1'	29 ^h 36'	9 ^h D31	8 ^h 47'	21 ^h 49'	24 ^h 5'
F10	1 42 30	23 ^h 51'03"	8 ^h II11	5 ^h 58'	7 ^h 28'	17 ^h 0'	29 ^h 46'	20 ^h 18'	25 ^h 20'	24 ^h 2'	29 ^h 37'	9 ^h 32'	8 ^h 44'	21 ^h 56'	24 ^h 9'
S11	1 46 27	24 ^h 51'03"	20 ^h 11'	5 ^h 4'	8 ^h 25'	17 ^h 33'	29 ^h 59'	20 ^h 23'	25 ^h 18'	24 ^h 3'	29 ^h 38'	9 ^h 33'	8 ^h 40'	22 ^h 2'	24 ^h 13'
S12	1 50 23	25 ^h 51'05"	2 ^h II21	4 ^h 1'	9 ^h 22'	18 ^h 6'	0 ^h II13	20 ^h 27'	25 ^h 16'	24 ^h 5'	29 ^h 39'	9 ^h 34'	8 ^h 37'	22 ^h 9'	24 ^h 18'
M13	1 54 20	26 ^h 51'09"	14 ^h 47'	2 ^h 52'	10 ^h 21'	18 ^h 39'	0 ^h 26'	20 ^h 32'	25 ^h 14'	24 ^h 6'	29 ^h 40'	9 ^h 36'	8 ^h 34'	22 ^h 16'	24 ^h 22'
T14	1 58 17	27 ^h 51'15"	27 ^h 29'	1 ^h 38'	11 ^h 19'	19 ^h 12'	0 ^h 39'	20 ^h 36'	25 ^h 11'	24 ^h 7'	29 ^h 42'	9 ^h 37'	8 ^h 31'	22 ^h 22'	24 ^h 26'
W15	2 2 13	28 ^h 51'23"	10 ^h II31	0 ^h 21'	12 ^h 18'	19 ^h 45'	0 ^h 52'	20 ^h 41'	25 ^h 9'	24 ^h 8'	29 ^h 43'	9 ^h R37	8 ^h 28'	22 ^h 29'	24 ^h 30'
T16	2 6 10	29 ^h 51'33"	23 ^h 53'	29 ^h II 3'	13 ^h 18'	20 ^h 18'	1 ^h 5'	20 ^h 45'	25 ^h 7'	24 ^h 9'	29 ^h 44'	9 ^h 37'	8 ^h 25'	22 ^h 36'	24 ^h 34'
F17	2 10 6	0 ^h II51'45"	7 ^h II35	27 ^h 46'	14 ^h 18'	20 ^h 51'	1 ^h 19'	20 ^h 49'	25 ^h 5'	24 ^h 11'	29 ^h 45'	9 ^h 35'	8 ^h 21'	22 ^h 43'	24 ^h 39'
S18	2 14 3	1 ^h 51'59"	21 ^h 32'	26											

SWISS EPHEMERIS for the year 1270

NOVEMBER 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
S 1	3 9 14	15♁57'51	3♂42	26♁31	0♁ 5	28♁43	4♁36	21♁40	24°R29	24♁24	0♁ 7	9°R 9	7♁34	24♁23	25°♁51		
S 2	3 13 11	16°58'27	16° 7	27°34	1°11	29°14	4°49	21°43	24♁27	24°24	0° 9	9♁ 2	7°31	24°30	25°56		
M 3	3 17 8	17°59'05	28°20	28°42	2°17	29°44	5° 2	21°46	24°24	24°25	0°10	8°55	7°27	24°37	26° 1		
T 4	3 21 4	18°59'45	10♁22	29°53	3°23	0♁14	5°15	21°48	24°22	24°25	0°12	8°48	7°24	24°44	26° 7		
W 5	3 25 1	20° 0'26	22°17	1♁ 8	4°30	0°44	5°28	21°50	24°19	24°26	0°14	8°43	7°21	24°50	26°12		
T 6	3 28 57	21° 1'09	4♁ 8	2°26	5°36	1°13	5°41	21°53	24°17	24°26	0°16	8°39	7°18	24°57	26°17		
F 7	3 32 54	22° 1'53	16° 0	3°46	6°43	1°43	5°54	21°55	24°14	24°27	0°17	8°37	7°15	25° 4	26°23		
S 8	3 36 50	23° 2'39	27°58	5° 8	7°51	2°12	6° 7	21°57	24°11	24°27	0°19	8°D37	7°12	25°10	26°28		
S 9	3 40 47	24° 3'27	10♁ 6	6°32	8°58	2°41	6°20	21°59	24° 9	24°28	0°21	8°38	7° 8	25°17	26°34		
M10	3 44 43	25° 4'16	22°29	7°58	10° 6	3°10	6°33	22° 0	24° 6	24°28	0°23	8°40	7° 5	25°24	26°39		
T 11	3 48 40	26° 5'07	5♁13	9°25	11°14	3°39	6°46	22° 2	24° 4	24°28	0°24	8°R41	7° 2	25°31	26°45		
W12	3 52 37	27° 5'59	18°21	10°52	12°22	4° 8	6°59	22° 4	24° 1	24°29	0°26	8°40	6°59	25°37	26°50		
T 13	3 56 33	28° 6'52	1♁55	12°21	13°30	4°36	7°12	22° 5	23°59	24°29	0°28	8°38	6°56	25°44	26°56		
F 14	4 0 30	29° 7'47	15°54	13°51	14°39	5° 4	7°24	22° 6	23°56	24°29	0°30	8°33	6°52	25°51	27° 2		
S 15	4 4 26	0♁ 8'43	0♁15	15°21	15°47	5°32	7°37	22° 8	23°54	24°29	0°32	8°26	6°49	25°57	27° 7		
S 16	4 8 23	1° 9'41	14°53	16°51	16°56	6° 0	7°50	22° 9	23°51	24°29	0°34	8°18	6°46	26° 4	27°13		
M17	4 12 19	2°10'39	29°40	18°22	18° 5	6°27	8° 2	22°10	23°49	24°29	0°36	8° 9	6°43	26°11	27°19		
T 18	4 16 16	3°11'38	14♁28	19°53	19°14	6°54	8°15	22°11	23°46	24°29	0°37	8° 0	6°40	26°18	27°24		
W19	4 20 12	4°12'38	29° 9	21°25	20°24	7°21	8°28	22°12	23°44	24°R30	0°39	7°54	6°37	26°24	27°30		
T 20	4 24 9	5°13'38	13♁38	22°57	21°33	7°48	8°40	22°12	23°41	24°30	0°41	7°49	6°33	26°31	27°36		
F 21	4 28 6	6°14'39	27°49	24°29	22°43	8°15	8°53	22°13	23°39	24°29	0°43	7°47	6°30	26°38	27°42		
S 22	4 32 2	7°15'41	11♁43	26° 1	23°53	8°41	9° 5	22°13	23°36	24°29	0°45	7°D47	6°27	26°44	27°48		
S 23	4 35 59	8°16'43	25°19	27°34	25° 3	9° 7	9°17	22°14	23°34	24°29	0°47	7°48	6°24	26°51	27°54		
M24	4 39 55	9°17'46	8°Y39	29° 6	26°13	9°33	9°30	22°14	23°32	24°29	0°49	7°R48	6°21	26°58	27°59		
T 25	4 43 52	10°18'49	21°45	0♁39	27°23	9°59	9°42	22°14	23°29	24°29	0°51	7°47	6°17	27° 5	28° 5		
W26	4 47 48	11°19'53	4♁38	2°12	28°34	10°24	9°54	22°R14	23°27	24°29	0°53	7°44	6°14	27°11	28°11		
T 27	4 51 45	12°20'57	17°21	3°45	29°44	10°49	10° 7	22°14	23°24	24°29	0°55	7°38	6°11	27°18	28°17		
F 28	4 55 41	13°22'02	29°54	5°18	0♁55	11°14	10°19	22°14	23°22	24°28	0°57	7°29	6° 8	27°25	28°23		
S 29	4 59 38	14°23'07	12♂17	6°51	2° 5	11°38	10°31	22°13	23°20	24°28	0°59	7°17	6° 5	27°31	28°29		
S 30	5 3 35	15♁24'13	24♂31	8♁24	3♁16	12♁ 3	10♁43	22♁13	23♁18	24♁28	1♁ 1	7♁ 4	6♁ 2	27♁38	28♁35		

Delta T = 08m54s Julian Calendar 1 Nov. 1270 == Greg. Calendar 8 Nov. 1270

DECEMBER 1270 JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	5 7 31	16♁25'20	6♁37	9♁58	4♁27	12♁27	10♁55	22°R12	23°R15	24°R27	1♁ 3	6°R51	5♁58	27♁45	28♁41		
T 2	5 11 28	17°26'28	18°36	11°31	5°38	12°50	11° 7	22♁12	23♁13	24♁27	1° 5	6♁38	5°55	27°52	28°47		
W 3	5 15 24	18°27'35	0♁29	13° 5	6°50	13°14	11°18	22°11	23°11	24°26	1° 7	6°27	5°52	27°58	28°53		
T 4	5 19 21	19°28'44	12°18	14°39	8° 1	13°37	11°30	22°10	23° 9	24°26	1°10	6°18	5°49	28° 5	28°59		
F 5	5 23 17	20°29'53	24° 9	16°13	9°13	13°59	11°42	22° 9	23° 6	24°25	1°12	6°12	5°46	28°12	29° 5		
S 6	5 27 14	21°31'03	6♁ 3	17°48	10°24	14°22	11°54	22° 8	23° 4	24°25	1°14	6° 9	5°43	28°18	29°11		
S 7	5 31 10	22°32'13	18° 7	19°23	11°36	14°44	12° 5	22° 7	23° 2	24°24	1°16	6°D 8	5°39	28°25	29°18		
M 8	5 35 7	23°33'24	0♁26	20°57	12°47	15° 6	12°17	22° 6	23° 0	24°24	1°18	6°R 8	5°36	28°32	29°24		
T 9	5 39 4	24°34'35	13° 5	22°33	13°59	15°27	12°28	22° 4	22°58	24°23	1°20	6° 8	5°33	28°39	29°30		
W10	5 43 0	25°35'47	26° 9	24° 8	15°11	15°48	12°39	22° 3	22°56	24°22	1°22	6° 7	5°30	28°45	29°36		
T 11	5 46 57	26°37'00	9♁42	25°44	16°23	16° 9	12°51	22° 1	22°54	24°22	1°24	6° 3	5°27	28°52	29°42		
F 12	5 50 53	27°38'12	23°44	27°20	17°35	16°29	13° 2	21°59	22°52	24°21	1°26	5°57	5°23	28°59	29°48		
S 13	5 54 50	28°39'26	8♁15	28°56	18°48	16°49	13°13	21°57	22°50	24°20	1°28	5°48	5°20	29° 5	29°54		
S 14	5 58 46	29°40'39	23° 8	0♁33	20° 0	17° 9	13°24	21°56	22°48	24°19	1°31	5°36	5°17	29°12	0♁ 0		
M15	6 2 43	0♁41'52	8♁17	2° 9	21°12	17°28	13°35	21°53	22°46	24°19	1°33	5°24	5°14	29°19	0° 6		
T 16	6 6 40	1°43'06	23°29	3°47	22°24	17°47	13°46	21°51	22°45	24°18	1°35	5°13	5°11	29°26	0°12		
W17	6 10 36	2°44'19	8♁34	5°24	23°37	18° 5	13°57	21°49	22°43	24°17	1°37	5° 3	5° 8	29°32	0°18		
T 18	6 14 33	3°45'32	23°23	7° 2	24°49	18°23	14° 7	21°47	22°41	24°16	1°39	4°56	5° 4	29°39	0°25		
F 19	6 18 29	4°46'44	7♁51	8°41	26° 2	18°41	14°18	21°44	22°39	24°15	1°41	4°52	5° 1	29°46	0°31		
S 20	6 22 26	5°47'56	21°53	10°20	27°15	18°58	14°29	21°42	22°38	24°14	1°43	4°51	4°58	29°52	0°37		
S 21	6 26 22	6°49'07	5°Y31	11°59	28°27	19°14	14°39	21°39	22°36	24°13	1°45	4°51	4°55	29°59	0°43		
M22	6 30 19	7°50'18	18°46	13°38	29°40	19°31	14°49	21°36	22°34	24°12	1°47	4°50	4°52	0♁ 6	0°49		
T 23	6 34 15	8°51'28	1♁42	15°18	0♁53	19°46	15° 0	21°34	22°33	24°11	1°49	4°49	4°49	0°13	0°55		
W24	6 38 12	9°52'38	14°23	16°58	2° 6	20° 2	15°10	21°31	22°31	24°10	1°52	4°45	4°45	0°19	1° 1		
T 25	6 42 9	10°53'47	26°50	18°38	3°19	20°16	15°20	21°28	22°30	24° 9	1°54	4°38	4°42	0°26	1° 7		
F 26	6 46 5	11°54'55	9♁ 8	20°19	4°31	20°31	15°30	21°24	22°29	24° 8	1°56	4°28	4°39	0°33	1°13		
S 27	6 50 2	12°56'03	21°18	22° 0	5°44	20°44	15°40	21°21	22°27	24° 7	1°58	4°16	4°36	0°39	1°19		
S 28	6 53 58	13°57'11	3♁21	23°41	6°58	20°58	15°49	21°18	22°26	24° 5	2° 0	4° 2	4°33	0°46	1°25		
M29	6 57 55	14°58'18	15°19	25°22	8°11	21°11	15°59	21°15	22°25	24° 4	2° 2	3°47	4°29	0°53	1°31		
T 30	7 1 51	15°59'24	27°14	27° 3	9°24	21°23	16° 8	21°11	22°23	24° 3	2° 4	3°33	4°26	1° 0	1°37		
W31	7 5 48	17♁ 0'29	9♁ 5	28♁44	10♁37	21♁34	16♁18	21♁ 8	22♁22	24♁ 2	2♁ 6	3♁20	4♁23	1♁ 6	1♁43		

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