

SWISS EPHEMERIS for the year 890

JANUARY 890 C.E.JC

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Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
T 1	6 59 6	15°30'43	3°Y59	28°57	28°46	14°45	3°23	10°R15	19°M38	21°Y57	12°R31	22°X25	23°X31	7°E33	22°X26									
F 2	7 3 3	16°31'47	16°56	4°20	29°26	15°32	3°26	10°M13	19°40	21°57	12°B30	22°R26	23°28	7°40	22°27									
S 3	7 6 59	17°32'49	29°33	5°39	0°X 4	16°19	3°28	10°11	19°43	21°57	12°30	22°25	23°25	7°47	22°29									
S 4	7 10 56	18°33'50	11°B53	6°53	0°42	17° 6	3°30	10° 9	19°45	21°58	12°29	22°22	23°22	7°53	22°31									
M 5	7 14 52	19°34'51	24° 1	8° 2	1°18	17°53	3°31	10° 7	19°47	21°58	12°29	22°17	23°19	8° 0	22°33									
T 6	7 18 49	20°35'50	6°II 0	9° 4	1°52	18°40	3°33	10° 5	19°50	21°58	12°29	22° 9	23°15	8° 7	22°35									
W 7	7 22 45	21°36'48	17°55	9°59	2°25	19°27	3°34	10° 3	19°52	21°58	12°28	21°59	23°12	8°14	22°37									
T 8	7 26 42	22°37'45	29°47	10°46	2°57	20°14	3°35	10° 0	19°54	21°59	12°28	21°47	23° 9	8°20	22°39									
F 9	7 30 38	23°38'40	11°E39	11°25	3°27	21° 2	3°36	9°58	19°56	21°59	12°28	21°35	23° 6	8°27	22°41									
S 10	7 34 35	24°39'35	23°33	11°54	3°55	21°49	3°37	9°55	19°58	22° 0	12°27	21°23	23° 3	8°34	22°44									
S 11	7 38 32	25°40'28	5°Ω29	12°13	4°22	22°36	3°38	9°53	20° 0	22° 0	12°27	21°14	22°59	8°41	22°46									
M12	7 42 28	26°41'21	17°29	12°R21	4°47	23°23	3°38	9°50	20° 2	22° 1	12°27	21° 6	22°56	8°47	22°48									
T 13	7 46 25	27°42'12	29°34	12°18	5°10	24°10	3°38	9°47	20° 4	22° 1	12°27	21° 1	22°53	8°54	22°50									
W14	7 50 21	28°43'02	11°M48	12° 4	5°31	24°57	3°R38	9°44	20° 6	22° 2	12°27	20°58	22°50	9° 1	22°53									
T 15	7 54 18	29°43'51	24°13	11°39	5°50	25°45	3°38	9°41	20° 8	22° 2	12°26	20°D58	22°47	9° 7	22°55									
F 16	7 58 14	0°44'38	6°Ω51	11° 3	6° 7	26°32	3°38	9°38	20°10	22° 3	12°26	20°59	22°44	9°14	22°57									
S 17	8 2 11	1°45'25	19°46	10°18	6°22	27°19	3°37	9°35	20°12	22° 4	12°26	21° 0	22°40	9°21	23° 0									
S 18	8 6 7	2°46'11	3°M 3	9°25	6°35	28° 6	3°36	9°32	20°13	22° 4	12°26	21°R 1	22°37	9°28	23° 2									
M19	8 10 4	3°46'56	16°43	8°25	6°46	28°54	3°35	9°28	20°15	22° 5	12°26	21° 0	22°34	9°34	23° 5									
T 20	8 14 1	4°47'39	0°A49	7°19	6°54	29°41	3°34	9°25	20°17	22° 6	12°26	20°57	22°31	9°41	23° 7									
W21	8 17 57	5°48'22	15°19	6°10	7° 0	0°X28	3°33	9°21	20°18	22° 7	12°D26	20°52	22°28	9°48	23°10									
T 22	8 21 54	6°49'04	0°B10	5° 0	7° 4	1°16	3°31	9°18	20°20	22° 7	12°26	20°46	22°25	9°54	23°13									
F 23	8 25 50	7°49'44	15°15	3°50	7°R 5	2° 3	3°30	9°14	20°21	22° 8	12°26	20°39	22°21	10° 1	23°15									
S 24	8 29 47	8°50'23	0°X25	2°43	7° 4	2°50	3°28	9°11	20°23	22° 9	12°26	20°33	22°18	10° 8	23°18									
S 25	8 33 43	9°51'00	15°30	1°39	7° 0	3°38	3°26	9° 7	20°24	22°10	12°26	20°27	22°15	10°15	23°21									
M26	8 37 40	10°51'36	0°X20	0°40	6°54	4°25	3°24	9° 3	20°25	22°11	12°26	20°24	22°12	10°21	23°24									
T 27	8 41 37	11°52'09	14°47	29°Z48	6°46	5°12	3°21	8°59	20°26	22°12	12°26	20°D22	22° 9	10°28	23°26									
W28	8 45 33	12°52'41	28°48	29° 2	6°35	5°59	3°18	8°55	20°28	22°13	12°26	20°22	22° 5	10°35	23°29									
T 29	8 49 30	13°53'11	12°Y21	28°23	6°21	6°47	3°16	8°51	20°29	22°14	12°27	20°24	22° 2	10°41	23°32									
F 30	8 53 26	14°53'40	25°27	27°52	6° 5	7°34	3°13	8°47	20°30	22°15	12°27	20°25	21°59	10°48	23°35									
S 31	8 57 23	15°54'06	8°B10	27°Z28	5°X46	8°X21	3°Ω 9	8°M43	20°M31	22°Y16	12°B27	20°X27	21°X56	10°E55	23°X38									

Delta T = 37m32s

Julian Calendar 1 Jan. 890 == Greg. Calendar 5 Jan. 890

FEBRUARY 890 C.E.JC

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S 1	9 1 19	16°54'30	20°B33	27°R12	5°R25	9°X 9	3°R 6	8°R39	20°M32	22°Y17	12°B27	20°R27	21°X53	11°E 2	23°X41									
M 2	9 5 16	17°54'53	2°II42	27°Z 4	5°X 2	9°56	3°Ω 3	8°M34	20°33	22°19	12°27	20°X26	21°50	11° 8	23°44									
T 3	9 9 12	18°55'13	14°40	27°D 2	4°36	10°43	2°59	8°30	20°34	22°20	12°28	20°23	21°46	11°15	23°47									
W 4	9 13 9	19°55'32	26°33	27° 6	4° 9	11°31	2°55	8°26	20°35	22°21	12°28	20°19	21°43	11°22	23°50									
T 5	9 17 6	20°55'48	8°E24	27°18	3°39	12°18	2°51	8°21	20°35	22°22	12°28	20°14	21°40	11°28	23°53									
F 6	9 21 2	21°56'03	20°17	27°35	3° 8	13° 5	2°47	8°17	20°36	22°24	12°29	20° 9	21°37	11°35	23°56									
S 7	9 24 59	22°56'15	2°Ω13	27°57	2°35	13°53	2°42	8°13	20°37	22°25	12°29	20° 4	21°34	11°42	23°59									
S 8	9 28 55	23°56'25	14°15	28°25	2° 0	14°40	2°38	8° 8	20°38	22°26	12°29	19°59	21°31	11°49	24° 3									
M 9	9 32 52	24°56'34	26°25	28°57	1°25	15°27	2°33	8° 4	20°38	22°28	12°30	19°56	21°27	11°55	24° 6									
T 10	9 36 48	25°56'41	8°M44	29°34	0°48	16°15	2°28	7°59	20°39	22°29	12°30	19°55	21°24	12° 2	24° 9									
W11	9 40 45	26°56'45	21°13	0°X15	0°11	17° 2	2°23	7°54	20°39	22°30	12°31	19°D54	21°21	12° 9	24°12									
T 12	9 44 41	27°56'48	3°Ω54	1° 0	29°X34	17°49	2°18	7°50	20°39	22°32	12°31	19°55	21°18	12°15	24°15									
F 13	9 48 38	28°56'50	16°47	1°48	28°56	18°36	2°13	7°45	20°40	22°33	12°32	19°56	21°15	12°22	24°19									
S 14	9 52 34	29°56'49	29°54	2°40	28°18	19°24	2° 7	7°40	20°40	22°35	12°32	19°57	21°11	12°29	24°22									
S 15	9 56 31	0°X56'47	13°M18	3°35	27°41	20°11	2° 2	7°36	20°40	22°36	12°33	19°59	21° 8	12°36	24°25									
M16	10 0 28	1°56'43	26°58	4°33	27° 4	20°58	1°56	7°31	20°41	22°38	12°33	19°R59	21° 5	12°42	24°29									
T 17	10 4 24	2°56'38	10°A56	5°33	26°28	21°45	1°50	7°26	20°41	22°39	12°34	19°59	21° 2	12°49	24°32									
W18	10 8 21	3°56'31	25°11	6°37	25°53	22°32	1°44	7°22	20°41	22°41	12°34	19°58	20°59	12°56	24°35									
T 19	10 12 17	4°56'22	9°Z40	7°42	25°19	23°20	1°38	7°17	20°R41	22°43	12°35	19°57	20°56	13° 2	24°39									
F 20	10 16 14	5°56'12	24°20	8°50	24°47	24° 7	1°32	7°12	20°41	22°44	12°35	19°55	20°52	13° 9	24°42									
S 21	10 20 10	6°55'59	9°X 5	10° 0	24°16	24°54	1°26	7° 7	20°41	22°46	12°36	19°53	20°49	13°16	24°46									
S 22	10 24 7	7°55'45	23°48	11°12	23°48	25°41	1°19	7° 3	20°41	22°48	12°37	19°52	20°46	13°23	24°49									
M23	10 28 3	8°55'29	8°X21	12°26	23°21	26°28	1°13	6°58	20°40	22°49	12°37	19°51	20°43	13°29	24°52									
T 24	10 32 0	9°55'10	22°39	13°42	22°56	27°15	1° 6	6°53	20°40	22°51	12°38	19°D51	20°40	13°36	24°56									
W25	10 35 57	10°54'50	6°Y37	14°59	22°34	28° 3	0°59	6°49	20°40	22°53	12°39	19°52	20°37	13°43	24°59									
T 26	10 39 53	11°54'27	20°11	16°19	22°14	28°50	0°52	6°44	20°40	22°55	12°39	19°52	20°33	13°49	25° 3									
F 27	10 43 50	12°54'02	3°B22	17°40	21°56	29°37	0°45	6°39	20°39	22°57	12°4													

SWISS EPHEMERIS for the year 890

MARCH 890 C.E.JC

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S 1	10 51 43	14°53'05	28°38	20°26	21°R28	1°11	0°R31	6°R30	20°R38	23°Y 0	12°B42	19°X54	20°X24	14°E10	25°K13								
M 2	10 55 39	15°52'33	10°II51	21°52	21°17	1°58	0°A24	6°M25	20°M38	23° 2	12°43	19°R54	20°21	14°16	25°17								
T 3	10 59 36	16°51'59	22°52	23°19	21° 9	2°45	0°17	6°20	20°37	23° 4	12°43	19°54	20°17	14°23	25°20								
W 4	11 3 32	17°51'23	4°B46	24°48	21° 3	3°32	0° 9	6°16	20°36	23° 6	12°44	19°54	20°14	14°30	25°24								
T 5	11 7 29	18°50'44	16°37	26°18	21° 0	4°18	0° 2	6°11	20°36	23° 8	12°45	19°54	20°11	14°36	25°27								
F 6	11 11 26	19°50'03	28°31	27°50	20°D59	5° 5	29°M54	6° 7	20°35	23°10	12°46	19°D54	20° 8	14°43	25°31								
S 7	11 15 22	20°49'19	10°O30	29°23	21° 1	5°52	29°47	6° 2	20°34	23°12	12°47	19°54	20° 5	14°50	25°34								
S 8	11 19 19	21°48'33	22°38	0°X57	21° 5	6°39	29°39	5°58	20°33	23°14	12°48	19°54	20° 2	14°57	25°38								
M 9	11 23 15	22°47'45	4°M58	2°33	21°11	7°26	29°32	5°53	20°32	23°16	12°49	19°54	19°58	15° 3	25°42								
T 10	11 27 12	23°46'55	17°32	4°10	21°20	8°13	29°24	5°49	20°31	23°18	12°50	19°R54	19°55	15°10	25°45								
W11	11 31 8	24°46'03	0°A19	5°49	21°30	8°59	29°16	5°45	20°30	23°20	12°50	19°54	19°52	15°17	25°49								
T 12	11 35 5	25°45'08	13°22	7°29	21°43	9°46	29° 9	5°40	20°29	23°22	12°51	19°54	19°49	15°23	25°52								
F 13	11 39 1	26°44'12	26°39	9°11	21°58	10°33	29° 1	5°36	20°28	23°24	12°52	19°53	19°46	15°30	25°56								
S 14	11 42 58	27°43'13	10°M 9	10°53	22°15	11°19	28°53	5°32	20°27	23°26	12°53	19°52	19°42	15°37	25°59								
S 15	11 46 55	28°42'13	23°52	12°38	22°34	12° 6	28°46	5°28	20°26	23°28	12°54	19°51	19°39	15°43	26° 3								
M16	11 50 51	29°41'11	7°A45	14°24	22°54	12°53	28°38	5°23	20°25	23°30	12°55	19°50	19°36	15°50	26° 6								
T 17	11 54 48	0°Y40'07	21°47	16°11	23°17	13°39	28°30	5°19	20°24	23°32	12°56	19°50	19°33	15°57	26°10								
W18	11 58 44	1°39'02	5°B57	18° 0	23°41	14°26	28°22	5°15	20°22	23°34	12°58	19°D50	19°30	16° 4	26°13								
T 19	12 2 41	2°37'55	20°12	19°50	24° 7	15°12	28°15	5°11	20°21	23°36	12°59	19°50	19°27	16°10	26°17								
F 20	12 6 37	3°36'46	4°A30	21°42	24°35	15°59	28° 7	5° 8	20°19	23°39	13° 0	19°51	19°23	16°17	26°20								
S 21	12 10 34	4°35'35	18°47	23°35	25° 4	16°45	27°59	5° 4	20°18	23°41	13° 1	19°52	19°20	16°24	26°24								
S 22	12 14 30	5°34'22	3°X 1	25°30	25°34	17°32	27°52	5° 0	20°17	23°43	13° 2	19°53	19°17	16°30	26°28								
M23	12 18 27	6°33'08	17° 8	27°26	26° 7	18°18	27°44	4°56	20°15	23°45	13° 3	19°R54	19°14	16°37	26°31								
T 24	12 22 24	7°31'51	1°Y 3	29°24	26°40	19° 4	27°37	4°53	20°13	23°47	13° 4	19°54	19°11	16°44	26°35								
W25	12 26 20	8°30'32	14°44	1°Y23	27°15	19°51	27°29	4°49	20°12	23°49	13° 5	19°52	19° 8	16°51	26°38								
T 26	12 30 17	9°29'12	28° 8	3°23	27°51	20°37	27°22	4°46	20°10	23°52	13° 6	19°50	19° 4	16°57	26°42								
F 27	12 34 13	10°27'49	11°B14	5°25	28°28	21°23	27°14	4°42	20° 8	23°54	13° 8	19°47	19° 1	17° 4	26°45								
S 28	12 38 10	11°26'25	24° 0	7°28	29° 6	22° 9	27° 7	4°39	20° 7	23°56	13° 9	19°44	18°58	17°11	26°48								
S 29	12 42 6	12°24'58	6°II29	9°33	29°46	22°55	27° 0	4°36	20° 5	23°58	13°10	19°41	18°55	17°17	26°52								
M30	12 46 3	13°23'29	18°43	11°38	0°X27	23°42	26°53	4°33	20° 3	24° 1	13°11	19°38	18°52	17°24	26°55								
T 31	12 49 59	14°Y21'58	0°B46	13°Y44	1°X 8	24°X28	26°M46	4°M29	20°M 1	24°Y 3	13°B12	19°X36	18°X48	17°E31	26°X59								

Delta T = 37m31s Julian Calendar 1 March 890 == Greg. Calendar 5 March 890

APRIL 890 C.E.JC

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W 1	12 53 56	15°Y20'25	12°E41	15°Y52	1°X51	25°X14	26°R39	4°R26	20°R 0	24°Y 5	13°B14	19°X35	18°X45	17°E38	27°X 2								
T 2	12 57 53	16°18'49	24°32	17°59	2°35	26° 0	26°M32	4°M24	19°M58	24° 7	13°15	19°35	18°42	17°44	27° 6								
F 3	13 1 49	17°17'12	6°O26	20° 8	3°19	26°46	26°25	4°21	19°56	24° 9	13°16	19°37	18°39	17°51	27° 9								
S 4	13 5 46	18°15'32	18°27	22°16	4° 5	27°31	26°18	4°18	19°54	24°12	13°17	19°38	18°36	17°58	27°12								
S 5	13 9 42	19°13'50	0°M38	24°24	4°51	28°17	26°11	4°15	19°52	24°14	13°18	19°40	18°33	18° 4	27°16								
M 6	13 13 39	20°12'06	13° 5	26°32	5°38	29° 3	26° 5	4°13	19°50	24°16	13°20	19°41	18°29	18°11	27°19								
T 7	13 17 35	21°10'20	25°50	28°39	6°26	29°49	25°58	4°10	19°48	24°18	13°21	19°R41	18°26	18°18	27°22								
W 8	13 21 32	22° 8'32	8°A54	0°B46	7°15	0°Y35	25°52	4° 8	19°46	24°21	13°22	19°40	18°23	18°24	27°26								
T 9	13 25 28	23° 6'42	22°19	2°51	8° 4	1°20	25°46	4° 6	19°43	24°23	13°23	19°37	18°20	18°31	27°29								
F 10	13 29 25	24° 4'50	6°M 1	4°54	8°54	2° 6	25°40	4° 3	19°41	24°25	13°25	19°32	18°17	18°38	27°32								
S 11	13 33 21	25° 2'57	19°59	6°56	9°45	2°51	25°34	4° 1	19°39	24°27	13°26	19°27	18°14	18°45	27°35								
S 12	13 37 18	26° 1'02	4°A 9	8°55	10°36	3°37	25°28	3°59	19°37	24°30	13°27	19°21	18°10	18°51	27°39								
M13	13 41 15	26°59'06	18°25	10°52	11°29	4°22	25°22	3°57	19°35	24°32	13°29	19°16	18° 7	18°58	27°42								
T 14	13 45 11	27°57'08	2°B44	12°46	12°21	5° 8	25°17	3°55	19°33	24°34	13°30	19°13	18° 4	19° 5	27°45								
W15	13 49 8	28°55'09	17° 1	14°38	13°15	5°53	25°11	3°54	19°30	24°37	13°31	19°10	18° 1	19°11	27°48								
T 16	13 53 4	29°53'09	1°A13	16°27	14° 8	6°39	25° 6	3°52	19°28	24°39	13°33	19°D10	17°58	19°18	27°51								
F 17	13 57 1	0°B51'07	15°19	18°12	15° 3	7°24	25° 1	3°50	19°26	24°41	13°34	19°10	17°54	19°25	27°54								
S 18	14 0 57	1°49'03	29°17	19°54	15°58	8° 9	24°56	3°49	19°23	24°43	13°35	19°12	17°51	19°31	27°58								
S 19	14 4 54	2°46'59	13°X 6	21°33	16°53	8°54	24°51	3°48	19°21	24°46	13°37	19°R13	17°48	19°38	28° 1								
M20	14 8 51	3°44'53	26°46	23° 8	17°49	9°40	24°46	3°46	19°19	24°48	13°38	19°13	17°45	19°45	28° 4								
T 21	14 12 47	4°42'45	10°Y16	24°40	18°46	10°25	24°42	3°45	19°16	24°50	13°39	19°11	17°42	19°52	28° 7								
W22	14 16 44	5°40'36	23°34	26° 8	19°42	11°10	24°37	3°44	19°14	24°52	13°41	19° 7	17°39	19°58	28°10								
T 23	14 20 40	6°38'26	6°B39	27°32	20°40	11°55	24°33	3°43	19°12	24°54	13°42	19° 0	17°35	20° 5	28°13								
F 24	14 24 37	7°36'15	19°30	28°52	21°37	12°40	24°29	3°42	19° 9	24°57	13°43	18°52	17°32	20°12	28°15								
S 25	14 28 33	8°34'01	2°II 8	0°II 9	22°35	13°25	24°25	3°42	19° 7	24°59	13°45	18°44	17°29	20°18	28°18								
S 26	14 32 30	9°31'47	14°31	1°22	23°34	14°10	24°21	3°41	19° 4	25° 1	13°46	18°35	17°26	20°25	28°21								
M27	14 36 26	10°29'31	26°42	2°31	24°33	14°54	24°18	3°41	19° 2	25° 3	13°47	18°26	17°23	20°32	28°24								
T 28	14 40 23	11°27'13	8°E43	3°36	25°32	15°39	24°14	3°40	18°59	25° 5	13°49	18°20	17°20	20°39	28°27								
W29	14 44 20	12°24'53	20°36	4°37	26°31	16°24	24°11	3°40	18°57	25° 8	13°50	18°15	17°16	20°45	28°30								
T 30	14 48 16	13°B22'32	2°O27	5°II33	27°X31	17°Y 8	24°M 8	3°M40	18°M54	25°Y10	13°B51	18°X12	17°X13	20°E52	28°X32								

Delta T = 37m30s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 890

MAY 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	14 52 13	14♌20'10	14♎20	6♁26	28♂31	17♃53	24°R 5	3°R39	18°R52	25°Y12	13♌53	18♈12	17♎10	20♌59	28♂35		
S 2	14 56 9	15°17'46	26°19	7°14	29°32	18°38	24♎ 2	3°D39	18♎49	25°14	13°54	18°12	17° 7	21° 5	28°38		
S 3	15 0 6	16°15'20	8♎31	7°58	0°Y33	19°22	24° 0	3♎39	18°47	25°16	13°56	18°13	17° 4	21°12	28°40		
M 4	15 4 2	17°12'53	21° 0	8°38	1°34	20° 6	23°58	3°40	18°44	25°18	13°57	18°R13	17° 0	21°19	28°43		
T 5	15 7 59	18°10'24	3♌50	9°13	2°35	20°51	23°55	3°40	18°42	25°21	13°58	18°12	16°57	21°25	28°46		
W 6	15 11 55	19° 7'54	17° 4	9°43	3°37	21°35	23°53	3°40	18°39	25°23	14° 0	18° 9	16°54	21°32	28°48		
T 7	15 15 52	20° 5'23	0♎43	10° 9	4°39	22°19	23°51	3°41	18°37	25°25	14° 1	18° 3	16°51	21°39	28°51		
F 8	15 19 48	21° 2'50	14°46	10°30	5°41	23° 4	23°50	3°41	18°35	25°27	14° 2	17°55	16°48	21°45	28°53		
S 9	15 23 45	22° 0'17	29° 9	10°47	6°43	23°48	23°48	3°42	18°32	25°29	14° 4	17°46	16°45	21°52	28°55		
S 10	15 27 42	22°57'42	13♌46	10°59	7°46	24°32	23°47	3°43	18°30	25°31	14° 5	17°36	16°41	21°59	28°58		
M11	15 31 38	23°55'07	28°28	11° 6	8°49	25°16	23°46	3°44	18°27	25°33	14° 6	17°27	16°38	22° 6	29° 0		
T 12	15 35 35	24°52'31	13♌10	11°R 9	9°52	26° 0	23°45	3°45	18°25	25°35	14° 8	17°20	16°35	22°12	29° 2		
W13	15 39 31	25°49'54	27°44	11° 7	10°56	26°44	23°44	3°46	18°22	25°37	14° 9	17°15	16°32	22°19	29° 5		
T 14	15 43 28	26°47'16	12♌ 4	11° 1	12° 0	27°28	23°44	3°47	18°20	25°39	14°10	17°12	16°29	22°26	29° 7		
F 15	15 47 24	27°44'38	26°10	10°51	13° 3	28°11	23°43	3°48	18°17	25°41	14°12	17°D11	16°26	22°32	29° 9		
S 16	15 51 21	28°41'59	10♌ 0	10°36	14° 7	28°55	23°43	3°50	18°15	25°43	14°13	17°R12	16°22	22°39	29°11		
S 17	15 55 18	29°39'19	23°35	10°18	15°12	29°39	23°D43	3°51	18°12	25°45	14°14	17°12	16°19	22°46	29°13		
M18	15 59 14	0♁36'39	6°Y56	9°56	16°16	30°23	23°43	3°53	18°10	25°47	14°16	17°10	16°16	22°52	29°16		
T 19	16 3 11	1°33'59	20° 5	9°31	17°21	1° 6	23°43	3°55	18° 8	25°49	14°17	17° 6	16°13	22°59	29°18		
W20	16 7 7	2°31'18	3♌ 1	9° 3	18°26	1°50	23°44	3°56	18° 5	25°51	14°18	17° 0	16°10	23° 6	29°20		
T 21	16 11 4	3°28'36	15°46	8°33	19°31	2°33	23°45	3°58	18° 3	25°53	14°20	16°51	16° 6	23°13	29°21		
F 22	16 15 0	4°25'54	28°21	8° 1	20°36	3°17	23°45	4° 0	18° 0	25°54	14°21	16°39	16° 3	23°19	29°23		
S 23	16 18 57	5°23'11	10♁44	7°28	21°42	4° 0	23°46	4° 2	17°58	25°56	14°22	16°26	16° 0	23°26	29°25		
S 24	16 22 53	6°20'27	22°58	6°54	22°47	4°43	23°48	4° 5	17°56	25°58	14°23	16°13	15°57	23°33	29°27		
M25	16 26 50	7°17'43	5♌ 2	6°20	23°53	5°26	23°49	4° 7	17°53	26° 0	14°25	16° 1	15°54	23°39	29°29		
T 26	16 30 47	8°14'58	16°58	5°47	24°59	6°10	23°51	4° 9	17°51	26° 2	14°26	15°50	15°51	23°46	29°30		
W27	16 34 43	9°12'13	28°49	5°15	26° 5	6°53	23°52	4°12	17°49	26° 4	14°27	15°42	15°47	23°53	29°32		
T 28	16 38 40	10° 9'26	10♎38	4°44	27°11	7°36	23°54	4°14	17°47	26° 5	14°28	15°37	15°44	23°59	29°34		
F 29	16 42 36	11° 6'39	22°29	4°15	28°17	8°19	23°56	4°17	17°44	26° 7	14°30	15°34	15°41	24° 6	29°35		
S 30	16 46 33	12° 3'51	4♎26	3°49	29°24	9° 2	23°59	4°20	17°42	26° 9	14°31	15°33	15°38	24°13	29°37		
S 31	16 50 29	13♁ 1'03	16♎36	3♁26	0♌30	9♌44	24♎ 1	4♎23	17♎40	26°Y10	14♌32	15♈33	15♎35	24♌20	29♈38		

Delta T = 37m30s

Julian Calendar 1 May 890 == Greg. Calendar 5 May 890

JUNE 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
M 1	16 54 26	13♁58'14	29♎ 3	3°R 7	1♌37	10♌27	24♎ 4	4♎26	17°R38	26°Y12	14♌33	15°R33	15♈31	24♌26	29♈40		
T 2	16 58 22	14°55'24	11♌53	2°II51	2°44	11°10	24° 7	4°29	17♎36	26°14	14°35	15♈31	15°28	24°33	29°41		
W 3	17 2 19	15°52'34	25° 8	2°40	3°51	11°53	24° 9	4°32	17°34	26°15	14°36	15°28	15°25	24°40	29°43		
T 4	17 6 16	16°49'43	8♎53	2°32	4°58	12°35	24°13	4°35	17°32	26°17	14°37	15°21	15°22	24°46	29°44		
F 5	17 10 12	17°46'52	23° 5	2°D29	6° 5	13°18	24°16	4°38	17°30	26°18	14°38	15°13	15°19	24°53	29°45		
S 6	17 14 9	18°44'00	7♌43	2°31	7°13	14° 0	24°19	4°42	17°28	26°20	14°39	15° 2	15°16	25° 0	29°46		
S 7	17 18 5	19°41'09	22°38	2°38	8°20	14°43	24°23	4°45	17°26	26°22	14°40	14°51	15°12	25° 6	29°47		
M 8	17 22 2	20°38'17	7♌43	2°49	9°28	15°25	24°27	4°49	17°24	26°23	14°42	14°41	15° 9	25°13	29°49		
T 9	17 25 58	21°35'25	22°46	3° 6	10°35	16° 7	24°31	4°52	17°22	26°24	14°43	14°33	15° 6	25°20	29°50		
W10	17 29 55	22°32'33	7♌39	3°27	11°43	16°50	24°35	4°56	17°20	26°26	14°44	14°26	15° 3	25°26	29°51		
T 11	17 33 51	23°29'42	22°16	3°53	12°51	17°32	24°39	5° 0	17°18	26°27	14°45	14°23	15° 0	25°33	29°52		
F 12	17 37 48	24°26'50	6♈31	4°24	13°59	18°14	24°43	5° 4	17°16	26°29	14°46	14°22	14°57	25°40	29°52		
S 13	17 41 45	25°23'59	20°24	5° 0	15° 8	18°56	24°48	5° 8	17°14	26°30	14°47	14°22	14°53	25°47	29°53		
S 14	17 45 41	26°21'08	3°Y56	5°40	16°16	19°38	24°53	5°12	17°13	26°31	14°48	14°22	14°50	25°53	29°54		
M15	17 49 38	27°18'18	17° 8	6°26	17°24	20°20	24°58	5°16	17°11	26°33	14°49	14°20	14°47	26° 0	29°55		
T 16	17 53 34	28°15'28	0♌ 4	7°16	18°33	21° 2	25° 3	5°20	17° 9	26°34	14°50	14°17	14°44	26° 7	29°56		
W17	17 57 31	29°12'38	12°45	8°10	19°41	21°43	25° 8	5°24	17° 8	26°35	14°51	14°11	14°41	26°13	29°56		
T 18	18 1 27	0♌ 9'49	25°14	9°10	20°50	22°25	25°13	5°29	17° 6	26°37	14°52	14° 2	14°37	26°20	29°57		
F 19	18 5 24	1° 7'00	7♁34	10°13	21°59	23° 7	25°19	5°33	17° 4	26°38	14°53	13°51	14°34	26°27	29°57		
S 20	18 9 20	2° 4'12	19°44	11°22	23° 8	23°48	25°24	5°38	17° 3	26°39	14°54	13°38	14°31	26°33	29°58		
S 21	18 13 17	3° 1'24	1♌47	12°34	24°17	24°30	25°30	5°42	17° 1	26°40	14°55	13°26	14°28	26°40	29°58		
M22	18 17 14	3°58'36	13°44	13°51	25°26	25°11	25°36	5°47	17° 0	26°41	14°56	13°14	14°25	26°47	29°59		
T 23	18 21 10	4°55'49	25°36	15°12	26°35	25°53	25°42	5°52	16°59	26°42	14°57	13° 4	14°22	26°53	29°59		
W24	18 25 7	5°53'02	7♎25	16°38	27°44	26°34	25°48	5°57	16°57	26°43	14°58	12°56	14°18	27° 0	29°59		
T 25	18 29 3	6°50'15	19°13	18° 7	28°54	27°15	25°55	6° 2	16°56	26°44	14°59	12°51	14°15	27° 7	29°59		
F 26	18 33 0	7°47'28	1♎ 4	19°40	0♁ 3	27°57	26° 1	6° 7	16°55	26°45	15° 0	12°48	14°12	27°13	0°Y 0		
S 27	18 36 56	8°44'42	13° 2	21°18	1°13	28°38	26° 8	6°12	16°53	26°46	15° 1	12°D48	14° 9	27°20	0° 0		
S 28	18 40 53	9°41'56	25°11	22°59	2°22	29°19	26°14	6°17	16°52	26°47	15° 2	12°48	14° 6	27°27	0° 0		
M29	18 44 50	10°39'10	7♌36	24°43	3°32	0♁ 0	26°21	6°22	16°51	26°48	15° 2	12°R49	14° 3	27°34			

SWISS EPHEMERIS for the year 890

JULY 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
W 1	18 52 43	12 <sup>23</sup> 33'39	3 <sup>11</sup> 34	28 <sup>11</sup> 22	5 <sup>11</sup> 52	1 <sup>11</sup> 22	26 <sup>11</sup> 36	6 <sup>11</sup> 32	16 <sup>11</sup> R49	26 <sup>11</sup> Y50	15 <sup>11</sup> 8 4	12 <sup>11</sup> R46	13 <sup>11</sup> X56	27 <sup>11</sup> 847	0 <sup>11</sup> R 0								
T 2	18 56 39	13 <sup>11</sup> 30'54	17 <sup>11</sup> 15	0 <sup>11</sup> 16	7 <sup>11</sup> 2	2 <sup>11</sup> 2	26 <sup>11</sup> 43	6 <sup>11</sup> 38	16 <sup>11</sup> M48	26 <sup>11</sup> 51	15 <sup>11</sup> 5	12 <sup>11</sup> X42	13 <sup>11</sup> 53	27 <sup>11</sup> 54	0 <sup>11</sup> Y 0								
F 3	19 0 36	14 <sup>11</sup> 28'10	1 <sup>11</sup> 25	2 <sup>11</sup> 12	8 <sup>11</sup> 12	2 <sup>11</sup> 43	26 <sup>11</sup> 50	6 <sup>11</sup> 43	16 <sup>11</sup> 47	26 <sup>11</sup> 52	15 <sup>11</sup> 6	12 <sup>11</sup> 36	13 <sup>11</sup> 50	28 <sup>11</sup> 0	29 <sup>11</sup> X59								
S 4	19 4 32	15 <sup>11</sup> 25'26	16 <sup>11</sup> 3	4 <sup>11</sup> 11	9 <sup>11</sup> 22	3 <sup>11</sup> 24	26 <sup>11</sup> 58	6 <sup>11</sup> 49	16 <sup>11</sup> 46	26 <sup>11</sup> 52	15 <sup>11</sup> 6	12 <sup>11</sup> 28	13 <sup>11</sup> 47	28 <sup>11</sup> 7	29 <sup>11</sup> 59								
S 5	19 8 29	16 <sup>11</sup> 22'43	1 <sup>11</sup> 3 3	6 <sup>11</sup> 12	10 <sup>11</sup> 32	4 <sup>11</sup> 4	27 <sup>11</sup> 5	6 <sup>11</sup> 54	16 <sup>11</sup> 45	26 <sup>11</sup> 53	15 <sup>11</sup> 7	12 <sup>11</sup> 20	13 <sup>11</sup> 43	28 <sup>11</sup> 14	29 <sup>11</sup> 59								
M 6	19 12 25	17 <sup>11</sup> 20'00	16 <sup>11</sup> 16	8 <sup>11</sup> 14	11 <sup>11</sup> 42	4 <sup>11</sup> 45	27 <sup>11</sup> 13	7 <sup>11</sup> 0	16 <sup>11</sup> 44	26 <sup>11</sup> 54	15 <sup>11</sup> 8	12 <sup>11</sup> 12	13 <sup>11</sup> 40	28 <sup>11</sup> 20	29 <sup>11</sup> 59								
T 7	19 16 22	18 <sup>11</sup> 17'19	1 <sup>11</sup> 32	10 <sup>11</sup> 18	12 <sup>11</sup> 53	5 <sup>11</sup> 25	27 <sup>11</sup> 21	7 <sup>11</sup> 6	16 <sup>11</sup> 44	26 <sup>11</sup> 54	15 <sup>11</sup> 9	12 <sup>11</sup> 6	13 <sup>11</sup> 37	28 <sup>11</sup> 27	29 <sup>11</sup> 58								
W 8	19 20 19	19 <sup>11</sup> 14'38	16 <sup>11</sup> 40	12 <sup>11</sup> 23	14 <sup>11</sup> 3	6 <sup>11</sup> 6	27 <sup>11</sup> 29	7 <sup>11</sup> 11	16 <sup>11</sup> 43	26 <sup>11</sup> 55	15 <sup>11</sup> 9	12 <sup>11</sup> 1	13 <sup>11</sup> 34	28 <sup>11</sup> 34	29 <sup>11</sup> 58								
T 9	19 24 15	20 <sup>11</sup> 11'58	1 <sup>11</sup> X32	14 <sup>11</sup> 28	15 <sup>11</sup> 14	6 <sup>11</sup> 46	27 <sup>11</sup> 37	7 <sup>11</sup> 17	16 <sup>11</sup> 42	26 <sup>11</sup> 56	15 <sup>11</sup> 10	11 <sup>11</sup> 59	13 <sup>11</sup> 31	28 <sup>11</sup> 40	29 <sup>11</sup> 57								
F 10	19 28 12	21 <sup>11</sup> 9'19	16 <sup>11</sup> 0	16 <sup>11</sup> 34	16 <sup>11</sup> 24	7 <sup>11</sup> 26	27 <sup>11</sup> 45	7 <sup>11</sup> 23	16 <sup>11</sup> 42	26 <sup>11</sup> 56	15 <sup>11</sup> 11	11 <sup>11</sup> D58	13 <sup>11</sup> 28	28 <sup>11</sup> 47	29 <sup>11</sup> 57								
S 11	19 32 8	22 <sup>11</sup> 6'41	0 <sup>11</sup> Y 3	18 <sup>11</sup> 40	17 <sup>11</sup> 35	8 <sup>11</sup> 6	27 <sup>11</sup> 54	7 <sup>11</sup> 29	16 <sup>11</sup> 41	26 <sup>11</sup> 57	15 <sup>11</sup> 11	11 <sup>11</sup> 59	13 <sup>11</sup> 24	28 <sup>11</sup> 54	29 <sup>11</sup> 56								
S 12	19 36 5	23 <sup>11</sup> 4'04	13 <sup>11</sup> 40	20 <sup>11</sup> 45	18 <sup>11</sup> 46	8 <sup>11</sup> 46	28 <sup>11</sup> 2	7 <sup>11</sup> 35	16 <sup>11</sup> 41	26 <sup>11</sup> 57	15 <sup>11</sup> 12	12 <sup>11</sup> 0	13 <sup>11</sup> 21	29 <sup>11</sup> 0	29 <sup>11</sup> 55								
M 13	19 40 1	24 <sup>11</sup> 1'29	26 <sup>11</sup> 54	22 <sup>11</sup> 50	19 <sup>11</sup> 57	9 <sup>11</sup> 26	28 <sup>11</sup> 11	7 <sup>11</sup> 41	16 <sup>11</sup> 40	26 <sup>11</sup> 58	15 <sup>11</sup> 12	12 <sup>11</sup> R 1	13 <sup>11</sup> 18	29 <sup>11</sup> 7	29 <sup>11</sup> 55								
T 14	19 43 58	24 <sup>11</sup> 58'55	9 <sup>11</sup> X46	24 <sup>11</sup> 55	21 <sup>11</sup> 7	10 <sup>11</sup> 6	28 <sup>11</sup> 20	7 <sup>11</sup> 47	16 <sup>11</sup> 40	26 <sup>11</sup> 58	15 <sup>11</sup> 13	11 <sup>11</sup> 59	13 <sup>11</sup> 15	29 <sup>11</sup> 14	29 <sup>11</sup> 54								
W 15	19 47 54	25 <sup>11</sup> 56'23	22 <sup>11</sup> 20	26 <sup>11</sup> 59	22 <sup>11</sup> 18	10 <sup>11</sup> 46	28 <sup>11</sup> 28	7 <sup>11</sup> 53	16 <sup>11</sup> 39	26 <sup>11</sup> 59	15 <sup>11</sup> 14	11 <sup>11</sup> 56	13 <sup>11</sup> 12	29 <sup>11</sup> 21	29 <sup>11</sup> 53								
T 16	19 51 51	26 <sup>11</sup> 53'51	4 <sup>11</sup> II41	29 <sup>11</sup> 2	23 <sup>11</sup> 30	11 <sup>11</sup> 26	28 <sup>11</sup> 37	7 <sup>11</sup> 59	16 <sup>11</sup> 39	26 <sup>11</sup> 59	15 <sup>11</sup> 14	11 <sup>11</sup> 51	13 <sup>11</sup> 9	29 <sup>11</sup> 27	29 <sup>11</sup> 52								
F 17	19 55 48	27 <sup>11</sup> 51'22	16 <sup>11</sup> 50	1 <sup>11</sup> Ω 3	24 <sup>11</sup> 41	12 <sup>11</sup> 6	28 <sup>11</sup> 46	8 <sup>11</sup> 5	16 <sup>11</sup> 39	26 <sup>11</sup> 59	15 <sup>11</sup> 15	11 <sup>11</sup> 45	13 <sup>11</sup> 5	29 <sup>11</sup> 34	29 <sup>11</sup> 51								
S 18	19 59 44	28 <sup>11</sup> 48'53	28 <sup>11</sup> 51	3 <sup>11</sup> 4	25 <sup>11</sup> 52	12 <sup>11</sup> 46	28 <sup>11</sup> 56	8 <sup>11</sup> 12	16 <sup>11</sup> 39	27 <sup>11</sup> 0	15 <sup>11</sup> 15	11 <sup>11</sup> 37	13 <sup>11</sup> 2	29 <sup>11</sup> 41	29 <sup>11</sup> 50								
S 19	20 3 41	29 <sup>11</sup> 46'26	10 <sup>11</sup> 847	5 <sup>11</sup> 3	27 <sup>11</sup> 3	13 <sup>11</sup> 25	29 <sup>11</sup> 5	8 <sup>11</sup> 18	16 <sup>11</sup> 38	27 <sup>11</sup> 0	15 <sup>11</sup> 16	11 <sup>11</sup> 29	12 <sup>11</sup> 59	29 <sup>11</sup> 47	29 <sup>11</sup> 49								
M 20	20 7 37	0 <sup>11</sup> Ω44'00	22 <sup>11</sup> 38	7 <sup>11</sup> 1	28 <sup>11</sup> 14	14 <sup>11</sup> 5	29 <sup>11</sup> 14	8 <sup>11</sup> 24	16 <sup>11</sup> 38	27 <sup>11</sup> 0	15 <sup>11</sup> 16	11 <sup>11</sup> 22	12 <sup>11</sup> 56	29 <sup>11</sup> 54	29 <sup>11</sup> 48								
T 21	20 11 34	1 <sup>11</sup> 41'35	4 <sup>11</sup> Ω27	8 <sup>11</sup> 58	29 <sup>11</sup> 26	14 <sup>11</sup> 44	29 <sup>11</sup> 24	8 <sup>11</sup> 31	16 <sup>11</sup> 38	27 <sup>11</sup> 0	15 <sup>11</sup> 17	11 <sup>11</sup> 16	12 <sup>11</sup> 53	0 <sup>11</sup> Ω 1	29 <sup>11</sup> 47								
W 22	20 15 30	2 <sup>11</sup> 39'11	16 <sup>11</sup> 17	10 <sup>11</sup> 53	0 <sup>11</sup> 837	15 <sup>11</sup> 24	29 <sup>11</sup> 33	8 <sup>11</sup> 37	16 <sup>11</sup> D38	27 <sup>11</sup> 1	15 <sup>11</sup> 17	11 <sup>11</sup> 11	12 <sup>11</sup> 49	0 <sup>11</sup> 7	29 <sup>11</sup> 46								
T 23	20 19 27	3 <sup>11</sup> 36'49	28 <sup>11</sup> 8	12 <sup>11</sup> 46	1 <sup>11</sup> 49	16 <sup>11</sup> 3	29 <sup>11</sup> 43	8 <sup>11</sup> 44	16 <sup>11</sup> 38	27 <sup>11</sup> 1	15 <sup>11</sup> 17	11 <sup>11</sup> 8	12 <sup>11</sup> 46	0 <sup>11</sup> 14	29 <sup>11</sup> 45								
F 24	20 23 23	4 <sup>11</sup> 34'27	10 <sup>11</sup> 11 3	14 <sup>11</sup> 39	3 <sup>11</sup> 1	16 <sup>11</sup> 42	29 <sup>11</sup> 52	8 <sup>11</sup> 50	16 <sup>11</sup> 38	27 <sup>11</sup> 1	15 <sup>11</sup> 18	11 <sup>11</sup> D 7	12 <sup>11</sup> 43	0 <sup>11</sup> 21	29 <sup>11</sup> 44								
S 25	20 27 20	5 <sup>11</sup> 32'07	22 <sup>11</sup> 5	16 <sup>11</sup> 29	4 <sup>11</sup> 12	17 <sup>11</sup> 21	0 <sup>11</sup> Ω 2	8 <sup>11</sup> 57	16 <sup>11</sup> 38	27 <sup>11</sup> 1	15 <sup>11</sup> 18	11 <sup>11</sup> 8	12 <sup>11</sup> 40	0 <sup>11</sup> 27	29 <sup>11</sup> 42								
S 26	20 31 17	6 <sup>11</sup> 29'48	4 <sup>11</sup> Ω19	18 <sup>11</sup> 19	5 <sup>11</sup> 24	18 <sup>11</sup> 0	0 <sup>11</sup> 12	9 <sup>11</sup> 4	16 <sup>11</sup> 39	27 <sup>11</sup> 1	15 <sup>11</sup> 19	11 <sup>11</sup> 9	12 <sup>11</sup> 37	0 <sup>11</sup> 34	29 <sup>11</sup> 41								
M 27	20 35 13	7 <sup>11</sup> 27'30	16 <sup>11</sup> 46	20 <sup>11</sup> 7	6 <sup>11</sup> 36	18 <sup>11</sup> 39	0 <sup>11</sup> 22	9 <sup>11</sup> 10	16 <sup>11</sup> 39	27 <sup>11</sup> R 1	15 <sup>11</sup> 19	11 <sup>11</sup> 11	12 <sup>11</sup> 34	0 <sup>11</sup> 41	29 <sup>11</sup> 40								
T 28	20 39 10	8 <sup>11</sup> 25'13	29 <sup>11</sup> 33	21 <sup>11</sup> 53	7 <sup>11</sup> 48	19 <sup>11</sup> 18	0 <sup>11</sup> 32	9 <sup>11</sup> 17	16 <sup>11</sup> 39	27 <sup>11</sup> 1	15 <sup>11</sup> 19	11 <sup>11</sup> 12	12 <sup>11</sup> 30	0 <sup>11</sup> 47	29 <sup>11</sup> 38								
W 29	20 43 6	9 <sup>11</sup> 22'58	12 <sup>11</sup> M41	23 <sup>11</sup> 38	9 <sup>11</sup> 0	19 <sup>11</sup> 57	0 <sup>11</sup> 42	9 <sup>11</sup> 24	16 <sup>11</sup> 39	27 <sup>11</sup> 1	15 <sup>11</sup> 19	11 <sup>11</sup> R12	12 <sup>11</sup> 27	0 <sup>11</sup> 54	29 <sup>11</sup> 37								
T 30	20 47 3	10 <sup>11</sup> 20'43	26 <sup>11</sup> 15	25 <sup>11</sup> 22	10 <sup>11</sup> 12	20 <sup>11</sup> 36	0 <sup>11</sup> 53	9 <sup>11</sup> 31	16 <sup>11</sup> 40	27 <sup>11</sup> 1	15 <sup>11</sup> 20	11 <sup>11</sup> 11	12 <sup>11</sup> 24	1 <sup>11</sup> 1	29 <sup>11</sup> 35								
F 31	20 50 59	11 <sup>11</sup> Ω18'30	10 <sup>11</sup> X16	27 <sup>11</sup> Ω 4	11 <sup>11</sup> 824	21 <sup>11</sup> II15	1 <sup>11</sup> Ω 3	9 <sup>11</sup> 37	16 <sup>11</sup> M40	27 <sup>11</sup> Y 1	15 <sup>11</sup> Ω20	11 <sup>11</sup> X 9	12 <sup>11</sup> X21	1 <sup>11</sup> Ω 7	29 <sup>11</sup> X34								

Delta T = 37m28s

Julian Calendar 1 July 890 == Greg. Calendar 5 July 890

AUGUST 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	20 54 56	12 <sup>11</sup> Ω16'18	24 <sup>11</sup> X43	28 <sup>11</sup> Ω45	12 <sup>11</sup> 836	21 <sup>11</sup> II53	1 <sup>11</sup> Ω14	9 <sup>11</sup> 11 44	16 <sup>11</sup> M41	27 <sup>11</sup> R 0	15 <sup>11</sup> Ω20	11 <sup>11</sup> R 6	12 <sup>11</sup> X18	1 <sup>11</sup> Ω14	29 <sup>11</sup> R32								
S 2	20 58 52	13 <sup>11</sup> 14'07	9 <sup>11</sup> Ω33	0 <sup>11</sup> 11 24	13 <sup>11</sup> 48	22 <sup>11</sup> 32	1 <sup>11</sup> 24	9 <sup>11</sup> 51	16 <sup>11</sup> 41	27 <sup>11</sup> Y 0	15 <sup>11</sup> 20	11 <sup>11</sup> X 2	12 <sup>11</sup> 15	1 <sup>11</sup> 21	29 <sup>11</sup> X30								
M 3	21 2 49	14 <sup>11</sup> 11'58	24 <sup>11</sup> 38	2 <sup>11</sup> 2	15 <sup>11</sup> 0	23 <sup>11</sup> 10	1 <sup>11</sup> 35	9 <sup>11</sup> 58	16 <sup>11</sup> 42	27 <sup>11</sup> 0	15 <sup>11</sup> 21	10 <sup>11</sup> 58	12 <sup>11</sup> 11	1 <sup>11</sup> 27	29 <sup>11</sup> 29								
T 4	21 6 46	15 <sup>11</sup> 9'50	9 <sup>11</sup> Ω51	3 <sup>11</sup> 39	16 <sup>11</sup> 13	23 <sup>11</sup> 49	1 <sup>11</sup> 45	10 <sup>11</sup> 5	16 <sup>11</sup> 43	27 <sup>11</sup> 0	15 <sup>11</sup> 21	10 <sup>11</sup> 55	12 <sup>11</sup> 8	1 <sup>11</sup> 34	29 <sup>11</sup> 27								
W 5	21 10 42	16 <sup>11</sup> 7'44	25 <sup>11</sup> 1	5 <sup>11</sup> 14	17 <sup>11</sup> 25	24 <sup>11</sup> 27	1 <sup>11</sup> 56	10 <sup>11</sup> 12	16 <sup>11</sup> 43	27 <sup>11</sup> 0	15 <sup>11</sup> 21	10 <sup>11</sup> 54	12 <sup>11</sup> 5	1 <sup>11</sup> 41	29 <sup>11</sup> 25								
T 6	21 14 39	17 <sup>11</sup> 5'39	9 <sup>11</sup> X59	6 <sup>11</sup> 48	18 <sup>11</sup> 38	25 <sup>11</sup> 5	2 <sup>11</sup> 7	10 <sup>11</sup> 19	16 <sup>11</sup> 44	26 <sup>11</sup> 59	15 <sup>11</sup> 21	10 <sup>11</sup> D53	12 <sup>11</sup> 2	1 <sup>11</sup> 48	29 <sup>11</sup> 23								
F 7	21 18 35	18 <sup>11</sup> 3'36	24 <sup>11</sup> 37	8 <sup>11</sup> 21	19 <sup>11</sup> 50	25 <sup>11</sup> 43	2 <sup>11</sup> 18	10 <sup>11</sup> 26	16 <sup>11</sup> 45	26 <sup>11</sup> 59	15 <sup>11</sup> 21	10 <sup>11</sup> 53	11 <sup>11</sup> 59	1 <sup>11</sup> 54	29 <sup>11</sup> 21								
S 8	21 22 32	19 <sup>11</sup> 1'35	8 <sup>11</sup> Y50	9 <sup>11</sup> 52	21 <sup>11</sup> 3	26 <sup>11</sup> 21	2 <sup>11</sup> 29	10 <sup>11</sup> 33	16 <sup>11</sup> 46	26 <sup>11</sup> 58	15 <sup>11</sup> 21	10 <sup>11</sup> 54	11 <sup>11</sup> 55	2 <sup>11</sup> 1	29 <sup>11</sup> 20								
S 9	21 26 28	19 <sup>11</sup> 59'35	22 <sup>11</sup> 36	11 <sup>11</sup> 22	22 <sup>11</sup> 15	26 <sup>11</sup> 59	2 <sup>11</sup> 40	10 <sup>11</sup> 40	16 <sup>11</sup> 47	26 <sup>11</sup> 58	15 <sup>11</sup> 21	10 <sup>11</sup> 56	11 <sup>11</sup> 52	2 <sup>11</sup> 8	29 <sup>11</sup> 18								
M 10	21 30 25	20 <sup>11</sup> 57'38	5 <sup>11</sup> Ω56	12 <sup>11</sup> 51	23 <sup>11</sup> 28	27 <sup>11</sup> 37	2 <sup>11</sup> 51	10 <sup>11</sup> 47	16 <sup>11</sup> 48	26 <sup>11</sup> 58	15 <sup>11</sup> 21	10 <sup>11</sup> 57	11 <sup>11</sup> 49	2 <sup>11</sup> 14	29 <sup>11</sup> 16								
T 11	21 34 21	21 <sup>11</sup> 55'43	18 <sup>11</sup> 52	14 <sup>11</sup> 18	24 <sup>11</sup> 41	28 <sup>11</sup> 15	3 <sup>11</sup> 2	10 <sup>11</sup> 55	16 <sup>11</sup> 49	26 <sup>11</sup> 57	15 <sup>11</sup> R21	10 <sup>11</sup> R58	11 <sup>11</sup> 46	2 <sup>11</sup> 21	29 <sup>11</sup> 14								
W 12	21 38 18	22 <sup>11</sup> 53'49	1 <sup>11</sup> II27	15 <sup>11</sup> 44	25 <sup>11</sup> 54	28 <sup>11</sup> 53	3 <sup>11</sup> 14	11 <sup>11</sup> 2	16 <sup>11</sup> 50	26 <sup>11</sup> 57	15 <sup>11</sup> 21	10 <sup>11</sup> 57	11 <sup>11</sup> 43	2 <sup>11</sup> 28	29 <sup>11</sup> 12								
T 13	21 42 15	23 <sup>11</sup> 51'58	13 <sup>11</sup> 45	17 <sup>11</sup> 8	27 <sup>11</sup> 7	29 <sup>11</sup> 30	3 <sup>11</sup> 25	11 <sup>11</sup> 9	16 <sup>11</sup> 51	26 <sup>11</sup> 56	15 <sup>11</sup> 21	10 <sup>11</sup>											

SWISS EPHEMERIS for the year 890

SEPTEMBER 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	22 57 9	12♍22'42	18♌21	8♌10	20♈22	11♍9	7♌12	13♍29	17♌21	26°R40	15°R17	10♋48	10♋39	4♈41	28°R24
W 2	23 1 6	13°21'28	3♋17	8°50	21°36	11°44	7°24	13°36	17°23	26°Y39	15♌16	10°R48	10°36	4°48	28♋22
T 3	23 5 2	14°20'15	18°6	9°26	22°50	12°20	7°37	13°43	17°25	26°38	15°16	10°48	10°33	4°54	28°19
F 4	23 8 59	15°19'04	2°Y42	9°57	24°4	12°56	7°49	13°51	17°28	26°37	15°15	10°48	10°30	5°1	28°16
S 5	23 12 55	16°17'56	16°58	10°23	25°19	13°31	8°2	13°58	17°30	26°36	15°15	10°47	10°27	5°8	28°14
S 6	23 16 52	17°16'49	0♌49	10°44	26°33	14°7	8°14	14°6	17°32	26°34	15°14	10°47	10°23	5°14	28°11
M 7	23 20 48	18°15'45	14°15	10°59	27°47	14°42	8°27	14°13	17°34	26°33	15°14	10°46	10°20	5°21	28°8
T 8	23 24 45	19°14'44	27°16	11°8	29°1	15°17	8°40	14°21	17°37	26°32	15°13	10°45	10°17	5°28	28°6
W 9	23 28 42	20°13'45	9♌55	11°R10	0♍15	15°52	8°52	14°28	17°39	26°31	15°13	10°45	10°14	5°34	28°3
T 10	23 32 38	21°12'48	22°15	11°6	1°30	16°27	9°5	14°35	17°41	26°29	15°12	10°D44	10°11	5°41	28°0
F 11	23 36 35	22°11'53	4♌20	10°54	2°44	17°2	9°18	14°43	17°44	26°28	15°11	10°45	10°7	5°48	27°58
S 12	23 40 31	23°11'01	16°15	10°35	3°59	17°37	9°31	14°50	17°46	26°27	15°11	10°45	10°4	5°54	27°55
S 13	23 44 28	24°10'11	28°5	10°8	5°13	18°11	9°43	14°57	17°49	26°25	15°10	10°47	10°1	6°1	27°52
M14	23 48 24	25°9'24	9♌54	9°33	6°28	18°46	9°56	15°5	17°51	26°24	15°9	10°48	9°58	6°8	27°49
T 15	23 52 21	26°8'39	21°46	8°50	7°42	19°20	10°9	15°12	17°54	26°23	15°9	10°49	9°55	6°14	27°47
W16	23 56 17	27°7'55	3♍44	8°0	8°57	19°54	10°22	15°20	17°57	26°21	15°8	10°50	9°52	6°21	27°44
T 17	0 0 14	28°7'14	15°52	7°3	10°11	20°28	10°35	15°27	17°59	26°20	15°7	10°R50	9°48	6°28	27°41
F 18	0 4 11	29°6'36	28°10	6°1	11°26	21°2	10°48	15°34	18°2	26°18	15°7	10°49	9°45	6°34	27°38
S 19	0 8 7	0♌59	10♌41	4°53	12°41	21°36	11°1	15°41	18°5	26°17	15°6	10°47	9°42	6°41	27°36
S 20	0 12 4	1°5'24	23°25	3°42	13°55	22°10	11°14	15°49	18°8	26°15	15°5	10°45	9°39	6°48	27°33
M21	0 16 0	2°4'52	6♌23	2°30	15°10	22°43	11°27	15°56	18°10	26°14	15°4	10°41	9°36	6°54	27°30
T 22	0 19 57	3°4'21	19°34	1°19	16°25	23°17	11°40	16°3	18°13	26°12	15°4	10°38	9°32	7°1	27°27
W23	0 23 53	4°3'52	2♌59	0°10	17°40	23°50	11°53	16°10	18°16	26°11	15°3	10°35	9°29	7°8	27°25
T 24	0 27 50	5°3'26	16°37	29♍6	18°55	24°23	12°6	16°18	18°19	26°9	15°2	10°33	9°26	7°14	27°22
F 25	0 31 46	6°3'01	0♌27	28°8	20°9	24°56	12°19	16°25	18°22	26°8	15°1	10°D32	9°23	7°21	27°19
S 26	0 35 43	7°2'37	14°30	27°18	21°24	25°29	12°32	16°32	18°25	26°6	15°0	10°32	9°20	7°28	27°17
S 27	0 39 40	8°2'16	28°44	26°38	22°39	26°2	12°45	16°39	18°28	26°5	14°59	10°33	9°17	7°34	27°14
M28	0 43 36	9°1'56	13♌6	26°9	23°54	26°35	12°58	16°46	18°31	26°3	14°59	10°34	9°13	7°41	27°11
T 29	0 47 33	10°1'38	27°35	25°50	25°9	27°7	13°11	16°53	18°34	26°1	14°58	10°36	9°10	7°48	27°9
W30	0 51 29	11♌1'22	12♋6	25°D43	26♍24	27♌40	13♌24	17♍0	18♌37	26°Y0	14♌57	10°R36	9♋7	7♈54	27♋6

Delta T = 37m27s

Julian Calendar 1 Sept. 890 == Greg. Calendar 5 Sept. 890

OCTOBER 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	0 55 26	12♌1'07	26♋33	25♍47	27♍39	28♌12	13♌37	17♍7	18♌40	25°R58	14°R56	10°R35	9♋4	8♈1	27°R3
F 2	0 59 22	13°0'54	10°Y52	26°2	28°54	28°44	13°51	17°14	18°43	25°Y56	14♌55	10♋33	9°1	8°8	27♋1
S 3	1 3 19	14°0'44	24°57	26°27	0♌9	29°16	14°4	17°21	18°47	25°55	14°54	10°29	8°58	8°14	26°58
S 4	1 7 15	15°0'35	8♌44	27°1	1°24	29°47	14°17	17°28	18°50	25°53	14°53	10°23	8°54	8°21	26°56
M 5	1 11 12	16°0'29	22°9	27°45	2°39	0♌19	14°30	17°35	18°53	25°52	14°52	10°17	8°51	8°28	26°53
T 6	1 15 9	17°0'25	5♌12	28°36	3°55	0°50	14°43	17°42	18°56	25°50	14°51	10°11	8°48	8°34	26°50
W 7	1 19 5	18°0'23	17°53	29°35	5°10	1°21	14°56	17°48	19°0	25°48	14°50	10°6	8°45	8°41	26°48
T 8	1 23 2	19°0'24	0♌15	0♌39	6°25	1°52	15°9	17°55	19°3	25°47	14°49	10°3	8°42	8°48	26°45
F 9	1 26 58	20°0'26	12°21	1°49	7°40	2°23	15°22	18°2	19°6	25°45	14°48	10°1	8°38	8°54	26°43
S 10	1 30 55	21°0'31	24°17	3°4	8°55	2°54	15°35	18°8	19°10	25°43	14°47	10°D1	8°35	9°1	26°41
S 11	1 34 51	22°0'38	6♌7	4°23	10°11	3°25	15°49	18°15	19°13	25°41	14°46	10°2	8°32	9°8	26°38
M12	1 38 48	23°0'46	17°56	5°45	11°26	3°55	16°2	18°22	19°16	25°40	14°45	10°3	8°29	9°14	26°36
T 13	1 42 44	24°0'57	29°49	7°11	12°41	4°25	16°15	18°28	19°20	25°38	14°44	10°5	8°26	9°21	26°33
W14	1 46 41	25°1'10	11♍52	8°38	13°57	4°55	16°28	18°35	19°23	25°36	14°43	10°R5	8°23	9°28	26°31
T 15	1 50 38	26°1'26	24°8	10°8	15°12	5°25	16°41	18°41	19°27	25°35	14°42	10°4	8°19	9°34	26°29
F 16	1 54 34	27°1'43	6♌39	11°39	16°27	5°54	16°54	18°47	19°30	25°33	14°41	10°1	8°16	9°41	26°26
S 17	1 58 31	28°2'01	19°27	13°12	17°43	6°24	17°7	18°54	19°34	25°31	14°40	9°55	8°13	9°48	26°24
S 18	2 2 27	29°2'22	2♌34	14°45	18°58	6°53	17°20	19°0	19°37	25°30	14°39	9°48	8°10	9°54	26°22
M19	2 6 24	0♌2'45	15°57	16°20	20°13	7°22	17°33	19°6	19°41	25°28	14°38	9°39	8°7	10°1	26°20
T 20	2 10 20	1°3'09	29°34	17°55	21°29	7°51	17°46	19°12	19°44	25°26	14°36	9°30	8°4	10°8	26°18
W21	2 14 17	2°3'35	13♌22	19°30	22°44	8°19	17°59	19°19	19°48	25°25	14°35	9°21	8°0	10°14	26°16
T 22	2 18 13	3°4'03	27°19	21°6	24°0	8°47	18°12	19°25	19°51	25°23	14°34	9°15	7°57	10°21	26°14
F 23	2 22 10	4°4'31	11♌21	22°42	25°15	9°16	18°25	19°31	19°55	25°21	14°33	9°10	7°54	10°28	26°12
S 24	2 26 7	5°5'02	25°26	24°18	26°31	9°43	18°37	19°37	19°59	25°20	14°32	9°8	7°51	10°34	26°10
S 25	2 30 3	6°5'33	9♌33	25°54	27°46	10°11	18°50	19°43	20°2	25°18	14°31	9°D7	7°48	10°41	26°8
M26	2 34 0	7°6'06	23°40	27°31	29°1	10°38	19°3	19°48	20°6	25°16	14°30	9°8	7°44	10°48	26°6
T 27	2 37 56	8°6'40	7♋46	29°7	0♌17	11°5	19°16	19°54	20°9	25°15	14°29	9°R8	7°41	10°54	26°4
W28	2 41 53	9°7'15	21°50	0♌43	1°32	11°32	19°29	20°0	20°13	25°13	14°28	9°8	7°38	11°1	26°2
T 29	2 45 49	10°7'52	5°Y49	2°19	2°48	11°59	19°41	20°6	20°17	25°11	14°26	9°5	7°35	11°8	26°0
F 30	2 49 46	11°8'29	19°42	3°55	4°3	12°25	19°54	20°11	20°20	25°10	14°25	8°59	7°32	11°14	25°58
S 31	2 53 42	12♌9'08	3♌25	5♌31	5♌19	12♌51	20♌7	20♍17	20♌24	25°Y8	14♌24	8♋51	7♋29	11♌21	25♋57

Delta T = 37m26s

Julian Calendar

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SWISS EPHEMERIS for the year 890

NOVEMBER 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	2 57 39	13♌ 9°49	16♌55	7♌ 6	6♌34	13♏17	20♁19	20♁22	20♌28	25°R 6	14°R23	8°R40	7♌25	11♏28	25°R55								
M 2	3 1 35	14°10'31	0♌ 9	8°42	7°50	13°43	20°32	20°27	20°31	25°Y 5	14♌22	8♌29	7°22	11°34	25♌53								
T 3	3 5 32	15°11'15	13° 5	10°17	9° 5	14° 8	20°45	20°33	20°35	25° 3	14°21	8°17	7°19	11°41	25°52								
W 4	3 9 29	16°12'00	25°43	11°52	10°21	14°33	20°57	20°38	20°39	25° 2	14°20	8° 6	7°16	11°48	25°50								
T 5	3 13 25	17°12'47	8♌ 3	13°27	11°36	14°58	21° 9	20°43	20°42	25° 0	14°18	7°57	7°13	11°54	25°49								
F 6	3 17 22	18°13'35	20° 9	15° 2	12°52	15°22	21°22	20°48	20°46	24°59	14°17	7°51	7°10	12° 1	25°47								
S 7	3 21 18	19°14'25	2♌ 5	16°37	14° 7	15°47	21°34	20°53	20°50	24°57	14°16	7°47	7° 6	12° 8	25°46								
S 8	3 25 15	20°15'16	13°54	18°12	15°23	16°10	21°47	20°58	20°54	24°56	14°15	7°46	7° 3	12°14	25°45								
M 9	3 29 11	21°16'08	25°42	19°46	16°38	16°34	21°59	21° 3	20°57	24°54	14°14	7°D46	7° 0	12°21	25°43								
T 10	3 33 8	22°17'02	7♌35	21°21	17°54	16°57	22°11	21° 8	21° 1	24°53	14°13	7°R46	6°57	12°28	25°42								
W11	3 37 5	23°17'57	19°38	22°55	19° 9	17°20	22°23	21°13	21° 5	24°51	14°12	7°45	6°54	12°34	25°41								
T 12	3 41 1	24°18'54	1♌57	24°29	20°25	17°42	22°35	21°17	21° 8	24°50	14°11	7°43	6°50	12°41	25°40								
F 13	3 44 58	25°19'52	14°35	26° 3	21°41	18° 5	22°48	21°22	21°12	24°48	14° 9	7°38	6°47	12°48	25°39								
S 14	3 48 54	26°20'51	27°36	27°38	22°56	18°26	23° 0	21°26	21°16	24°47	14° 8	7°30	6°44	12°54	25°38								
S 15	3 52 51	27°21'52	10♌59	29°12	24°12	18°48	23°12	21°31	21°19	24°46	14° 7	7°20	6°41	13° 1	25°37								
M16	3 56 47	28°22'53	24°45	0♌46	25°27	19° 9	23°23	21°35	21°23	24°44	14° 6	7° 7	6°38	13° 8	25°36								
T 17	4 0 44	29°23'56	8♌49	2°21	26°43	19°30	23°35	21°39	21°27	24°43	14° 5	6°55	6°35	13°14	25°35								
W18	4 4 40	0♌24'59	23° 6	3°55	27°58	19°50	23°47	21°44	21°30	24°42	14° 4	6°42	6°31	13°21	25°34								
T 19	4 8 37	1°26'04	7♌30	5°29	29°14	20°10	23°59	21°48	21°34	24°40	14° 3	6°32	6°28	13°28	25°33								
F 20	4 12 34	2°27'09	21°55	7° 4	0♌30	20°29	24°10	21°52	21°38	24°39	14° 2	6°25	6°25	13°34	25°33								
S 21	4 16 30	3°28'14	6♌17	8°38	1°45	20°48	24°22	21°55	21°41	24°38	14° 1	6°21	6°22	13°41	25°32								
S 22	4 20 27	4°29'20	20°31	10°13	3° 1	21° 7	24°34	21°59	21°45	24°37	14° 0	6°19	6°19	13°48	25°31								
M23	4 24 23	5°30'26	4♌36	11°47	4°16	21°25	24°45	22° 3	21°49	24°35	13°59	6°19	6°16	13°54	25°31								
T 24	4 28 20	6°31'32	18°32	13°22	5°32	21°43	24°56	22° 7	21°52	24°34	13°58	6°18	6°12	14° 1	25°30								
W25	4 32 16	7°32'39	2°Y18	14°57	6°47	22° 1	25° 8	22°10	21°56	24°33	13°57	6°17	6° 9	14° 7	25°30								
T 26	4 36 13	8°33'46	15°55	16°32	8° 3	22°18	25°19	22°14	21°59	24°32	13°56	6°13	6° 6	14°14	25°30								
F 27	4 40 9	9°34'54	29°22	18° 7	9°18	22°34	25°30	22°17	22° 3	24°31	13°55	6° 6	6° 3	14°21	25°29								
S 28	4 44 6	10°36'02	12♌40	19°42	10°34	22°50	25°41	22°20	22° 7	24°30	13°54	5°57	6° 0	14°27	25°29								
S 29	4 48 3	11°37'10	25°47	21°17	11°49	23° 6	25°52	22°23	22°10	24°29	13°53	5°44	5°56	14°34	25°29								
M30	4 51 59	12°38'19	8♌41	22°52	13♌ 5	23♏21	26♁ 3	22♁26	22♌14	24°Y28	13♌52	5♌30	5♌53	14♏41	25♌29								

Delta T = 37m26s

Julian Calendar 1 Nov. 890 == Greg. Calendar 5 Nov. 890

DECEMBER 890 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	4 55 56	13♌39'28	21♌22	24♌27	14♌20	23♏35	26♁14	22♁29	22♌17	24°R27	13°R51	5°R16	5♌50	14♏47	25°R28								
W 2	4 59 52	14°40'38	3♌49	26° 2	15°36	23°49	26°25	22°32	22°21	24°Y26	13♌50	5♌ 3	5°47	14°54	25°D28								
T 3	5 3 49	15°41'48	16° 3	27°37	16°51	24° 3	26°35	22°35	22°24	24°25	13°49	4°52	5°44	15° 1	25♌28								
F 4	5 7 45	16°42'58	28° 6	29°12	18° 7	24°16	26°46	22°38	22°28	24°24	13°48	4°44	5°41	15° 7	25°29								
S 5	5 11 42	17°44'09	9♌59	0♌47	19°22	24°28	26°56	22°40	22°31	24°23	13°47	4°39	5°37	15°14	25°29								
S 6	5 15 38	18°45'21	21°47	2°22	20°38	24°40	27° 7	22°43	22°35	24°22	13°46	4°36	5°34	15°21	25°29								
M 7	5 19 35	19°46'32	3♌34	3°56	21°53	24°51	27°17	22°45	22°38	24°22	13°45	4°D36	5°31	15°27	25°29								
T 8	5 23 32	20°47'44	15°25	5°30	23° 9	25° 2	27°27	22°47	22°41	24°21	13°44	4°R36	5°28	15°34	25°29								
W 9	5 27 28	21°48'57	27°26	7° 3	24°24	25°12	27°37	22°49	22°45	24°20	13°43	4°36	5°25	15°41	25°30								
T 10	5 31 25	22°50'10	9♌43	8°35	25°40	25°21	27°47	22°51	22°48	24°19	13°42	4°34	5°22	15°47	25°30								
F 11	5 35 21	23°51'23	22°20	10° 6	26°55	25°30	27°57	22°53	22°51	24°19	13°42	4°31	5°18	15°54	25°30								
S 12	5 39 18	24°52'36	5♌22	11°36	28°11	25°39	28° 7	22°55	22°55	24°18	13°41	4°25	5°15	16° 1	25°31								
S 13	5 43 14	25°53'50	18°52	13° 4	29°26	25°46	28°17	22°57	22°58	24°17	13°40	4°16	5°12	16° 7	25°32								
M14	5 47 11	26°55'04	2♌48	14°31	0♌42	25°53	28°27	22°59	23° 1	24°17	13°39	4° 6	5° 9	16°14	25°32								
T 15	5 51 7	27°56'18	17° 9	15°55	1°57	25°59	28°36	23° 0	23° 4	24°16	13°38	3°55	5° 6	16°21	25°33								
W16	5 55 4	28°57'31	1♌48	17°17	3°13	26° 5	28°45	23° 2	23° 8	24°16	13°38	3°44	5° 2	16°27	25°34								
T 17	5 59 1	29°58'45	16°38	18°35	4°28	26°10	28°55	23° 3	23°11	24°15	13°37	3°35	4°59	16°34	25°34								
F 18	6 2 57	0♌59'58	1♌30	19°50	5°44	26°14	29° 4	23° 4	23°14	24°15	13°36	3°29	4°56	16°41	25°35								
S 19	6 6 54	2° 1'11	16°17	21° 0	6°59	26°18	29°13	23° 5	23°17	24°14	13°35	3°25	4°53	16°47	25°36								
S 20	6 10 50	3° 2'23	0♌51	22° 6	8°14	26°20	29°22	23° 6	23°20	24°14	13°35	3°D24	4°50	16°54	25°37								
M21	6 14 47	4° 3'35	15° 9	23° 5	9°30	26°22	29°31	23° 7	23°23	24°13	13°34	3°24	4°47	17° 1	25°38								
T 22	6 18 43	5° 4'45	29°10	23°57	10°45	26°24	29°39	23° 8	23°26	24°13	13°33	3°R25	4°43	17° 7	25°39								
W23	6 22 40	6° 5'55	12°Y53	24°42	12° 1	26°R24	29°48	23° 8	23°29	24°13	13°33	3°25	4°40	17°14	25°40								
T 24	6 26 37	7° 7'05	26°19	25°19	13°16	26°24	29°56	23° 9	23°32	24°13	13°32	3°23	4°37	17°20	25°41								
F 25	6 30 33	8° 8'13	9♌31	25°46	14°31	26°23	0♌ 5	23° 9	23°35	24°12	13°32	3°19	4°34	17°27	25°43								
S 26	6 34 30	9° 9'21	22°29	26° 3	15°47	26°22	0°13	23°10	23°38	24°12	13°31	3°12	4°31	17°34	25°44								
S 27	6 38 26	10°10'28	5♌14	26°R 9	17° 2	26°19	0°21	23°10	23°41	24°12	13°30	3° 3	4°28	17°40	25°45								
M28	6 42 23	11°11'34	17°48	26° 4	18°17	26°16	0°29	23°10	23°43	24°12	13°30	2°53	4°24	17°47	25°47								
T 29	6 46 19	12°12'40	0♌12	25°46	19°33	26°12	0°37	23°R10	23°46														