

SWISS EPHEMERIS for the year 686

JANUARY 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
M 1	6 52 54	14♌ 2'28	23♋22	0♋40	17♌58	25°R20	13°R35	5♌31	28°R31	23♋59	24°R 8	7°R35	9♌16	16♌15	25♌11
T 2	6 56 50	15° 3'32	8♋10	2° 9	19°12	25♌13	13♋27	5°32	28♌29	24° 2	24♌ 6	7♌29	9°12	16°21	25°12
W 3	7 0 47	16° 4'35	22°35	3°34	20°27	25° 5	13°19	5°33	28°28	24° 4	24° 5	7°26	9° 9	16°28	25°14
T 4	7 4 44	17° 5'37	6♌31	4°56	21°42	24°57	13°11	5°34	28°26	24° 6	24° 4	7°D25	9° 6	16°35	25°16
F 5	7 8 40	18° 6'37	19°59	6°13	22°56	24°48	13° 3	5°35	28°25	24° 8	24° 3	7°26	9° 3	16°42	25°17
S 6	7 12 37	19° 7'37	3♌ 0	7°26	24°11	24°38	12°55	5°35	28°23	24°11	24° 2	7°27	9° 0	16°48	25°19
S 7	7 16 33	20° 8'34	15°38	8°32	25°26	24°28	12°47	5°36	28°22	24°13	24° 1	7°R28	8°57	16°55	25°21
M 8	7 20 30	21° 9'31	27°57	9°31	26°40	24°16	12°39	5°36	28°21	24°15	24° 0	7°28	8°53	17° 2	25°22
T 9	7 24 26	22°10'26	10♌ 3	10°23	27°55	24° 4	12°31	5°37	28°19	24°18	23°59	7°26	8°50	17° 9	25°24
W10	7 28 23	23°11'20	22° 0	11° 6	29°10	23°51	12°24	5°37	28°18	24°20	23°57	7°22	8°47	17°15	25°26
T11	7 32 19	24°12'12	3♌52	11°41	0♌24	23°38	12°16	5°R37	28°17	24°22	23°56	7°16	8°44	17°22	25°28
F12	7 36 16	25°13'03	15°43	12° 5	1°39	23°23	12° 8	5°37	28°16	24°24	23°55	7° 9	8°41	17°29	25°30
S13	7 40 13	26°13'52	27°36	12°19	2°54	23° 8	12° 1	5°37	28°15	24°27	23°54	7° 1	8°37	17°35	25°32
S14	7 44 9	27°14'41	9♌34	12°R23	4° 8	22°52	11°53	5°36	28°14	24°29	23°53	6°53	8°34	17°42	25°34
M15	7 48 6	28°15'27	21°38	12°15	5°23	22°36	11°46	5°36	28°13	24°31	23°52	6°45	8°31	17°49	25°36
T16	7 52 2	29°16'12	3♌49	11°56	6°37	22°18	11°38	5°36	28°12	24°34	23°51	6°40	8°28	17°56	25°38
W17	7 55 59	0♋16'56	16° 9	11°27	7°52	22° 1	11°31	5°35	28°11	24°36	23°50	6°36	8°25	18° 2	25°40
T18	7 59 55	1°17'39	28°39	10°48	9° 7	21°42	11°24	5°34	28°11	24°38	23°49	6°34	8°22	18° 9	25°42
F19	8 3 52	2°18'20	11♌20	10° 0	10°21	21°23	11°17	5°34	28°10	24°40	23°48	6°D34	8°18	18°16	25°44
S20	8 7 48	3°19'00	24°13	9° 5	11°36	21° 3	11°10	5°33	28° 9	24°43	23°47	6°35	8°15	18°22	25°47
S21	8 11 45	4°19'38	7♌20	8° 3	12°51	20°43	11° 3	5°32	28° 9	24°45	23°47	6°36	8°12	18°29	25°49
M22	8 15 42	5°20'16	20°43	6°57	14° 5	20°22	10°56	5°31	28° 8	24°47	23°46	6°38	8° 9	18°36	25°51
T23	8 19 38	6°20'52	4♌24	5°49	15°20	20° 1	10°49	5°29	28° 7	24°49	23°45	6°R39	8° 6	18°43	25°53
W24	8 23 35	7°21'27	18°24	4°40	16°35	19°39	10°43	5°28	28° 7	24°52	23°44	6°38	8° 3	18°49	25°56
T25	8 27 31	8°22'00	2♌41	3°32	17°49	19°17	10°36	5°27	28° 7	24°54	23°43	6°36	7°59	18°56	25°58
F26	8 31 28	9°22'33	17°14	2°27	19° 4	18°55	10°30	5°25	28° 6	24°56	23°42	6°33	7°56	19° 3	26° 1
S27	8 35 24	10°23'04	1♌58	1°26	20°19	18°32	10°24	5°24	28° 6	24°58	23°41	6°30	7°53	19°10	26° 3
S28	8 39 21	11°23'34	16°46	0°30	21°33	18° 9	10°18	5°22	28° 6	25° 0	23°41	6°26	7°50	19°16	26° 6
M29	8 43 17	12°24'02	1♋31	29♌40	22°48	17°46	10°12	5°20	28° 5	25° 3	23°40	6°23	7°47	19°23	26° 8
T30	8 47 14	13°24'28	16° 6	28°57	24° 3	17°22	10° 6	5°18	28° 5	25° 5	23°39	6°20	7°43	19°30	26°11
W31	8 51 11	14°24'52	0♌23	28♌22	25♌17	16♌59	10♌ 1	5♌16	28♌ 5	25♌ 7	23♌38	6°D19	7♌40	19♌36	26♌14

Delta T = 01h05m01s Julian Calendar 1 Jan. 686 == Greg. Calendar 4 Jan. 686

FEBRUARY 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
T 1	8 55 7	15°25'15	14♌18	27°R54	26♌32	16°R35	9°R56	5°R14	28°R 5	25♌ 9	23°R38	6♌19	7♌37	19♌43	26♌16
F 2	8 59 4	16°25'35	27°49	27♌33	27°47	16♌11	9♌50	5♌12	28°D 5	25°11	23♌37	6°20	7°34	19°50	26°19
S 3	9 3 0	17°25'54	10♌55	27°19	29° 1	15°47	9°45	5°10	28♌ 5	25°14	23°36	6°22	7°31	19°57	26°22
S 4	9 6 57	18°26'10	23°39	27°D12	0♋16	15°23	9°40	5° 7	28° 5	25°16	23°36	6°23	7°28	20° 3	26°24
M 5	9 10 53	19°26'25	6♌ 4	27°12	1°30	14°59	9°36	5° 5	28° 5	25°18	23°35	6°24	7°24	20°10	26°27
T 6	9 14 50	20°26'37	18°13	27°19	2°45	14°36	9°31	5° 2	28° 6	25°20	23°34	6°R25	7°21	20°17	26°30
W 7	9 18 46	21°26'48	0♌12	27°32	4° 0	14°12	9°27	5° 0	28° 6	25°22	23°34	6°25	7°18	20°23	26°33
T 8	9 22 43	22°26'56	12° 5	27°50	5°14	13°49	9°22	4°57	28° 6	25°24	23°33	6°24	7°15	20°30	26°36
F 9	9 26 40	23°27'02	23°57	28°14	6°29	13°26	9°18	4°54	28° 7	25°26	23°33	6°22	7°12	20°37	26°38
S10	9 30 36	24°27'06	5♌52	28°42	7°43	13° 4	9°14	4°51	28° 7	25°28	23°32	6°21	7° 8	20°44	26°41
S11	9 34 33	25°27'07	17°53	29°16	8°58	12°41	9°11	4°48	28° 7	25°30	23°32	6°19	7° 5	20°50	26°44
M12	9 38 29	26°27'07	0♌ 4	29°53	10°12	12°19	9° 7	4°45	28° 8	25°32	23°31	6°17	7° 2	20°57	26°47
T13	9 42 26	27°27'04	12°26	0♋35	11°27	11°58	9° 4	4°42	28° 9	25°34	23°31	6°16	6°59	21° 4	26°50
W14	9 46 22	28°27'00	25° 1	1°20	12°41	11°37	9° 1	4°39	28° 9	25°36	23°30	6°16	6°56	21°11	26°53
T15	9 50 19	29°26'53	7♌49	2° 9	13°56	11°16	8°58	4°36	28°10	25°38	23°30	6°D16	6°53	21°17	26°56
F16	9 54 15	0♌26'44	20°52	3° 2	15°10	10°56	8°55	4°33	28°11	25°40	23°29	6°16	6°49	21°24	26°59
S17	9 58 12	1°26'34	4♌ 8	3°57	16°25	10°37	8°52	4°29	28°11	25°42	23°29	6°16	6°46	21°31	27° 2
S18	10 2 9	2°26'21	17°37	4°55	17°39	10°18	8°50	4°26	28°12	25°44	23°29	6°17	6°43	21°37	27° 5
M19	10 6 5	3°26'07	1♌18	5°56	18°54	9°59	8°48	4°22	28°13	25°46	23°28	6°17	6°40	21°44	27° 8
T20	10 10 2	4°25'51	15°11	7° 0	20° 8	9°42	8°46	4°18	28°14	25°48	23°28	6°17	6°37	21°51	27°11
W21	10 13 58	5°25'33	29°13	8° 6	21°23	9°24	8°44	4°15	28°15	25°50	23°28	6°17	6°34	21°58	27°15
T22	10 17 55	6°25'14	13♌23	9°14	22°37	9° 8	8°42	4°11	28°16	25°52	23°27	6°17	6°30	22° 4	27°18
F23	10 21 51	7°24'53	27°39	10°24	23°52	8°52	8°41	4° 7	28°17	25°53	23°27	6°17	6°27	22°11	27°21
S24	10 25 48	8°24'30	11♌59	11°37	25° 6	8°37	8°39	4° 3	28°18	25°55	23°27	6°17	6°24	22°18	27°24
S25	10 29 44	9°24'05	26°19	12°51	26°21	8°23	8°38	3°59	28°20	25°57	23°27	6°18	6°21	22°24	27°27
M26	10 33 41	10°23'38	10♋35	14° 7	27°35	8° 9	8°37	3°55	28°21	25°59	23°27	6°18	6°18	22°31	27°30
T27	10 37 38	11°23'09	24°43	15°25	28°49	7°57	8°37	3°51	28°22	26° 1	23°27	6°18	6°14	22°38	27°34
W28	10 41 34	12♌22'39	8♌38	16♋45	0♌ 4	7♌45	8♌36	3♌47	28♌24	26♌ 2	23♌26	6°R18	6♌11	22♌45	27♌37

Delta T = 01h05m00s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 686

MARCH 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
T 1	10 45 31	13 ^h 22'06"	22 ^h 18'	18 ^h 7'	1 ^h 18'	7°R33	8°R36	3°R43	28 ^h 25'	26 ^h 3'	23°R26	6°R18	6 ^h 8'	22 ^h 51'	27 ^h 40'								
F 2	10 49 27	14°21'31"	5 ^h Y40	19°30'	2°33'	7 ^h Ω23	8°D36	3 ^h Ω39	28°26'	26°6'	23 ^h II26	6 ^h X17	6°5'	22°58'	27°43'								
S 3	10 53 24	15°20'53"	18°42'	20°55'	3°47'	7°13'	8 ^h Ω36	3°35'	28°28'	26°7'	23°26'	6°16'	6°2'	23°5'	27°46'								
S 4	10 57 20	16°20'14"	1 ^h Ω26	22°21'	5°1'	7°4'	8°36'	3°31'	28°29'	26°9'	23°D26	6°15'	5°59'	23°11'	27°50'								
M 5	11 1 17	17°19'32"	13°52'	23°49'	6°16'	6°56'	8°37'	3°26'	28°31'	26°11'	23°26'	6°14'	5°55'	23°18'	27°53'								
T 6	11 5 13	18°18'48"	26°4'	25°18'	7°30'	6°49'	8°37'	3°22'	28°33'	26°12'	23°26'	6°12'	5°52'	23°25'	27°56'								
W 7	11 9 10	19°18'02"	8 ^h II5	26°49'	8°44'	6°42'	8°38'	3°18'	28°34'	26°14'	23°26'	6°11'	5°49'	23°32'	28°0'								
T 8	11 13 7	20°17'13"	19°59'	28°21'	9°59'	6°37'	8°39'	3°13'	28°36'	26°15'	23°26'	6°D11	5°46'	23°38'	28°3'								
F 9	11 17 3	21°16'22"	1 ^h Ω52	29°55'	11°13'	6°32'	8°41'	3°9'	28°38'	26°17'	23°26'	6°11'	5°43'	23°45'	28°6'								
S 10	11 21 0	22°15'28"	13°47'	1 ^h X30	12°27'	6°27'	8°42'	3°4'	28°40'	26°18'	23°27'	6°12'	5°40'	23°52'	28°9'								
S 11	11 24 56	23°14'32"	25°50'	3°7'	13°42'	6°24'	8°44'	3°0'	28°42'	26°20'	23°27'	6°14'	5°36'	23°58'	28°13'								
M12	11 28 53	24°13'34"	8 ^h Ω4	4°45'	14°56'	6°21'	8°45'	2°55'	28°44'	26°21'	23°27'	6°15'	5°33'	24°5'	28°16'								
T 13	11 32 49	25°12'34"	20°33'	6°25'	16°10'	6°20'	8°47'	2°51'	28°45'	26°22'	23°27'	6°16'	5°30'	24°12'	28°19'								
W14	11 36 46	26°11'31"	3 ^h II20	8°6'	17°24'	6°19'	8°50'	2°46'	28°47'	26°24'	23°27'	6°R17	5°27'	24°19'	28°23'								
T 15	11 40 42	27°10'26"	16°26'	9°48'	18°39'	6°D18	8°52'	2°42'	28°50'	26°25'	23°28'	6°17'	5°24'	24°25'	28°26'								
F 16	11 44 39	28°9'18"	29°50'	11°32'	19°53'	6°19'	8°54'	2°37'	28°52'	26°27'	23°28'	6°15'	5°20'	24°32'	28°29'								
S 17	11 48 35	29°8'09"	13 ^h Ω33	13°17'	21°7'	6°20'	8°57'	2°33'	28°54'	26°28'	23°28'	6°13'	5°17'	24°39'	28°33'								
S 18	11 52 32	0 ^h Y6'58"	27°30'	15°4'	22°21'	6°22'	9°0'	2°28'	28°56'	26°29'	23°28'	6°10'	5°14'	24°45'	28°36'								
M19	11 56 29	1°5'45"	11 ^h III38	16°53'	23°35'	6°24'	9°3'	2°23'	28°58'	26°30'	23°29'	6°6'	5°11'	24°52'	28°39'								
T 20	12 0 25	2°4'30"	25°53'	18°43'	24°50'	6°27'	9°6'	2°19'	29°0'	26°31'	23°29'	6°3'	5°8'	24°59'	28°43'								
W21	12 4 22	3°3'13"	10 ^h X11	20°34'	26°4'	6°31'	9°10'	2°14'	29°3'	26°33'	23°29'	6°0'	5°5'	25°6'	28°46'								
T 22	12 8 18	4°1'55"	24°27'	22°27'	27°18'	6°36'	9°13'	2°10'	29°5'	26°34'	23°30'	5°59'	5°1'	25°12'	28°49'								
F 23	12 12 15	5°0'35"	8 ^h Ω39	24°22'	28°32'	6°41'	9°17'	2°5'	29°7'	26°35'	23°30'	5°D58	4°58'	25°19'	28°52'								
S 24	12 16 11	5°59'13"	22°45'	26°18'	29°46'	6°47'	9°21'	2°0'	29°10'	26°36'	23°31'	5°59'	4°55'	25°26'	28°56'								
S 25	12 20 8	6°57'50"	6 ^h Ω44	28°16'	1 ^h Y0	6°54'	9°25'	1°56'	29°12'	26°37'	23°31'	6°1'	4°52'	25°32'	28°59'								
M26	12 24 4	7°56'24"	20°34'	0 ^h Y15	2°14'	7°1'	9°29'	1°51'	29°15'	26°38'	23°32'	6°2'	4°49'	25°39'	29°2'								
T 27	12 28 1	8°54'57"	4 ^h X13	2°15'	3°29'	7°9'	9°34'	1°47'	29°17'	26°39'	23°32'	6°R3	4°46'	25°46'	29°6'								
W28	12 31 58	9°53'28"	17°42'	4°17'	4°43'	7°17'	9°38'	1°42'	29°20'	26°40'	23°33'	6°2'	4°42'	25°53'	29°9'								
T 29	12 35 54	10°51'57"	0 ^h Y59	6°20'	5°57'	7°26'	9°43'	1°38'	29°22'	26°41'	23°33'	6°0'	4°39'	25°59'	29°12'								
F 30	12 39 51	11°50'25"	14°3'	8°25'	7°11'	7°36'	9°48'	1°33'	29°25'	26°42'	23°34'	5°56'	4°36'	26°6'	29°15'								
S 31	12 43 47	12 ^h Y48'50"	26 ^h Y52	10 ^h Y30	8 ^h Y25	7 ^h Ω46	9 ^h Ω53	1 ^h Ω29	29 ^h Ω28	26 ^h Ω43	23 ^h II35	5 ^h X51	4 ^h X33	26 ^h II13	29 ^h X19								

Delta T = 01h04m59s Julian Calendar 1 March 686 == Greg. Calendar 4 March 686

APRIL 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
S 1	12 47 44	13 ^h Y47'13"	9 ^h Ω28	12 ^h Y37	9 ^h Y39	7 ^h Ω57	9 ^h Ω58	1°R24	29 ^h Ω30	26 ^h Ω44	23 ^h II35	5°R44	4 ^h X30	26 ^h II19	29 ^h X22								
M 2	12 51 40	14°45'35"	21°50'	14°44'	10°53'	8°8'	10°4'	1 ^h Ω20	29°33'	26°44'	23°36'	5°X37	4°26'	26°26'	29°25'								
T 3	12 55 37	15°43'54"	3 ^h II59	16°52'	12°7'	8°20'	10°9'	1°15'	29°36'	26°45'	23°36'	5°31'	4°23'	26°33'	29°28'								
W 4	12 59 33	16°42'12"	15°59'	19°1'	13°21'	8°33'	10°15'	1°11'	29°39'	26°46'	23°37'	5°25'	4°20'	26°40'	29°32'								
T 5	13 3 30	17°40'27"	27°53'	21°10'	14°35'	8°46'	10°21'	1°7'	29°41'	26°47'	23°38'	5°21'	4°17'	26°46'	29°35'								
F 6	13 7 27	18°38'41"	9 ^h Ω45	23°19'	15°49'	9°0'	10°27'	1°2'	29°44'	26°47'	23°39'	5°19'	4°14'	26°53'	29°38'								
S 7	13 11 23	19°36'52"	21°39'	25°27'	17°3'	9°14'	10°33'	0°58'	29°47'	26°48'	23°39'	5°D19	4°11'	27°0'	29°41'								
S 8	13 15 20	20°35'01"	3 ^h Ω40	27°35'	18°17'	9°28'	10°39'	0°54'	29°50'	26°49'	23°40'	5°19'	4°7'	27°6'	29°44'								
M 9	13 19 16	21°33'08"	15°54'	29°42'	19°31'	9°43'	10°46'	0°50'	29°53'	26°49'	23°41'	5°21'	4°4'	27°13'	29°47'								
T 10	13 23 13	22°31'13"	28°25'	1 ^h Ω48	20°45'	9°59'	10°52'	0°46'	29°56'	26°50'	23°42'	5°22'	4°1'	27°20'	29°50'								
W11	13 27 9	23°29'16"	11 ^h II17	3°52'	21°59'	10°15'	10°59'	0°42'	29°59'	26°50'	23°43'	5°R22	3°58'	27°27'	29°54'								
T 12	13 31 6	24°27'17"	24°33'	5°55'	23°13'	10°31'	11°6'	0°38'	0 ^h II2	26°51'	23°43'	5°20'	3°55'	27°33'	29°57'								
F 13	13 35 2	25°25'17"	8 ^h Ω14	7°55'	24°27'	10°48'	11°13'	0°34'	0°5'	26°51'	23°44'	5°16'	3°51'	27°40'	0 ^h Y0								
S 14	13 38 59	26°23'14"	22°18'	9°53'	25°40'	11°6'	11°20'	0°30'	0°8'	26°52'	23°45'	5°10'	3°48'	27°47'	0°3'								
S 15	13 42 56	27°21'10"	6 ^h II41	11°49'	26°54'	11°23'	11°27'	0°26'	0°11'	26°52'	23°46'	5°3'	3°45'	27°53'	0°6'								
M16	13 46 52	28°19'04"	21°17'	13°42'	28°8'	11°42'	11°35'	0°22'	0°14'	26°52'	23°47'	4°55'	3°42'	28°0'	0°9'								
T 17	13 50 49	29°16'57"	5 ^h X59	15°32'	29°22'	12°0'	11°42'	0°18'	0°17'	26°53'	23°48'	4°47'	3°39'	28°7'	0°12'								
W18	13 54 45	0 ^h Ω14'49"	20°40'	17°19'	0 ^h Ω36	12°19'	11°50'	0°15'	0°21'	26°53'	23°49'	4°40'	3°36'	28°14'	0°15'								
T 19	13 58 42	1°12'39"	5 ^h Ω13	19°3'	1°50'	12°39'	11°58'	0°11'	0°24'	26°53'	23°50'	4°35'	3°32'	28°20'	0°18'								
F 20	14 2 38	2°10'29"	19°33'	20°44'	3°4'	12°58'	12°6'	0°8'	0°27'	26°54'	23°51'	4°33'	3°29'	28°27'	0°21'								
S 21	14 6 35	3°8'16"	3 ^h Ω37	22°21'	4°18'	13°18'	12°14'	0°4'	0°30'	26°54'	23°52'	4°D32	3°26'	28°34'	0°23'								
S 22	14 10 31	4°6'03"	17°26'	23°55'	5°31'	13°39'	12°22'	0°1'	0°33'	26°54'	23°53'	4°33'	3°23'	28°40'	0°26'								
M23	14 14 28	5°3'48"	1 ^h X0	25°25'	6°45'	14°0'	12°30'	29 ^h II57	0°37'	26°54'	23°54'	4°R33	3°20'	28°47'	0°29'								
T 24	14 18 25	6°1'32"	14°20'	26°52'	7°59'	14°21'	12°39'	29°54'	0°40'	26°54'	23°55'	4°33'	3°17'	28°54'	0°32'								
W25	14 22 21	6°59'15"	27°26'	28°15'	9°13'	14°43'	12°47'	29°51'	0°43'	26°54'	23°56'	4°30'	3°13'	29°1'	0°35'								
T 26	14 26 18	7°56'57"	10 ^h Y21	29°34'	10°27'	15°5'	12°56'	29°48'	0°47'	26°R54	23°57'	4°26'	3°10'	29°7'	0°38'								
F 27	14 30 14	8°54'37"	23°5'	0 ^h II50	11°40'	15°27'	13°4'	29°45'	0°50'	26°54'	23°58'	4°18'	3°7'	29°14'	0°40'								
S 28	14 34 11	9°52'17"	5 ^h Ω37	2°2'	12°54'	15°50'	13°13'	29°42'	0°53'	26°54'	24°0'	4°8'	3°4'	29°21'	0°43'								
S 29	14 38 7	10°49'55"	18°0'	3°11'	14°8'	16°13'	13°22'	29°39'	0°57'	26°54'	24°1'	3°57'	3°1'	29°27'	0°46'								
M30	14 42 4	11 ^h Ω47'31"	0 ^h II13	4 ^h II15	15 ^h Ω22	16 ^h Ω36	13 ^h Ω31	29 ^h II36	1 ^h II0	26 ^h Ω54	24 ^h II2	3 ^h X45	2 ^h X57	29 ^h II34	0 ^h Y48								

Delta T = 01h04m58s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 686

MAY 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	14 46 0	12♌45'07	12♐17	5♐15	16♌35	16♏59	13♌41	29°R33	1♐ 4	26°R54	24♐ 3	3°R33	2♌54	29♐41	0♑51
W 2	14 49 57	13°42'41	24°13	6°12	17°49	17°23	13°50	29♐31	1° 7	26♌54	24° 4	3♌22	2°51	29°48	0°54
T 3	14 53 54	14°40'14	6♌ 5	7° 4	19° 3	17°48	13°59	29°28	1°10	26°54	24° 6	3°14	2°48	29°54	0°56
F 4	14 57 50	15°37'45	17°54	7°52	20°17	18°12	14° 9	29°26	1°14	26°53	24° 7	3° 8	2°45	0♌ 1	0°59
S 5	15 1 47	16°35'15	29°47	8°36	21°30	18°37	14°18	29°23	1°17	26°53	24° 8	3° 5	2°42	0° 8	1° 1
S 6	15 5 43	17°32'43	11♏46	9°16	22°44	19° 2	14°28	29°21	1°21	26°53	24° 9	3° 4	2°38	0°14	1° 4
M 7	15 9 40	18°30'11	23°58	9°51	23°58	19°27	14°38	29°19	1°24	26°52	24°11	3°D 4	2°35	0°21	1° 6
T 8	15 13 36	19°27'36	6♐27	10°22	25°12	19°53	14°48	29°16	1°28	26°52	24°12	3°R 4	2°32	0°28	1° 9
W 9	15 17 33	20°25'01	19°18	10°48	26°25	20°19	14°58	29°14	1°31	26°52	24°13	3° 3	2°29	0°34	1°11
T 10	15 21 29	21°22'24	2♌36	11°10	27°39	20°45	15° 8	29°12	1°35	26°51	24°14	3° 0	2°26	0°41	1°13
F 11	15 25 26	22°19'46	16°22	11°27	28°53	21°11	15°18	29°11	1°38	26°51	24°16	2°55	2°23	0°48	1°16
S 12	15 29 23	23°17'07	0♐36	11°40	0♐ 6	21°38	15°28	29° 9	1°42	26°50	24°17	2°47	2°19	0°55	1°18
S 13	15 33 19	24°14'27	15°15	11°48	1°20	22° 5	15°38	29° 7	1°45	26°50	24°18	2°37	2°16	1° 1	1°20
M14	15 37 16	25°11'46	0♌11	11°R51	2°34	22°32	15°49	29° 6	1°49	26°49	24°20	2°27	2°13	1° 8	1°23
T 15	15 41 12	26° 9'04	15°16	11°50	3°47	22°59	15°59	29° 4	1°52	26°49	24°21	2°16	2°10	1°15	1°25
W16	15 45 9	27° 6'21	0♌19	11°44	5° 1	23°27	16°10	29° 3	1°56	26°48	24°22	2° 7	2° 7	1°21	1°27
T 17	15 49 5	28° 3'38	15°12	11°35	6°14	23°55	16°21	29° 1	1°59	26°48	24°24	2° 0	2° 3	1°28	1°29
F 18	15 53 2	29° 0'55	29°47	11°20	7°28	24°23	16°31	29° 0	2° 3	26°47	24°25	1°56	2° 0	1°35	1°31
S 19	15 56 58	29°58'11	14♌ 0	11° 3	8°42	24°51	16°42	28°59	2° 7	26°46	24°27	1°54	1°57	1°42	1°33
S 20	16 0 55	0♐55'26	27°51	10°41	9°55	25°20	16°53	28°58	2°10	26°45	24°28	1°53	1°54	1°48	1°35
M21	16 4 52	1°52'41	11♌20	10°16	11° 9	25°48	17° 4	28°57	2°14	26°45	24°29	1°53	1°51	1°55	1°37
T 22	16 8 48	2°49'56	24°30	9°49	12°23	26°17	17°15	28°56	2°17	26°44	24°31	1°52	1°48	2° 2	1°39
W23	16 12 45	3°47'10	7♑23	9°19	13°36	26°46	17°26	28°56	2°21	26°43	24°32	1°49	1°44	2° 8	1°41
T 24	16 16 41	4°44'24	20° 2	8°47	14°50	27°16	17°37	28°55	2°24	26°42	24°34	1°44	1°41	2°15	1°43
F 25	16 20 38	5°41'38	2♌30	8°14	16° 3	27°45	17°49	28°54	2°28	26°42	24°35	1°35	1°38	2°22	1°44
S 26	16 24 34	6°38'51	14°48	7°40	17°17	28°15	18° 0	28°54	2°31	26°41	24°37	1°24	1°35	2°28	1°46
S 27	16 28 31	7°36'04	26°58	7° 6	18°31	28°45	18°11	28°54	2°35	26°40	24°38	1°11	1°32	2°35	1°48
M28	16 32 27	8°33'17	9♐ 1	6°32	19°44	29°15	18°23	28°53	2°39	26°39	24°40	0°58	1°29	2°42	1°50
T 29	16 36 24	9°30'29	20°58	5°59	20°58	29°45	18°34	28°53	2°42	26°38	24°41	0°44	1°25	2°49	1°51
W30	16 40 21	10°27'41	2♌50	5°27	22°11	0♐16	18°46	28°D53	2°46	26°37	24°43	0°33	1°22	2°55	1°53
T 31	16 44 17	11♐24'53	14♌40	4♐58	23♐25	0♐46	18°58	28♐53	2♐49	26♌36	24♐44	0♌23	1♌19	3♌ 2	1♑54

Delta T = 01h04m57s Julian Calendar 1 May 686 == Greg. Calendar 4 May 686

JUNE 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
F 1	16 48 14	12♐22'04	26♌29	4°R31	24♐38	1♐17	19°59	28♐53	2♐53	26°R35	24♐46	0°R16	1♌16	3♌ 9	1♑56
S 2	16 52 10	13°19'14	8♏21	4♐ 7	25°52	1°48	19°21	28°54	2°56	26♌34	24°47	0♌12	1°13	3°15	1°57
S 3	16 56 7	14°16'24	20°20	3°47	27° 6	2°20	19°33	28°54	3° 0	26°33	24°49	0°10	1° 9	3°22	1°59
M 4	17 0 3	15°13'34	2♐31	3°30	28°19	2°51	19°45	28°55	3° 3	26°32	24°50	0°D10	1° 6	3°29	2° 0
T 5	17 4 0	16°10'43	14°57	3°18	29°33	3°23	19°57	28°55	3° 7	26°30	24°52	0°R10	1° 3	3°35	2° 1
W 6	17 7 56	17° 7'51	27°46	3° 9	0♌46	3°54	20° 9	28°56	3°10	26°29	24°53	0°10	1° 0	3°42	2° 3
T 7	17 11 53	18° 4'59	11♌ 0	3°D 6	2° 0	4°26	20°21	28°56	3°14	26°28	24°55	0° 8	0°57	3°49	2° 4
F 8	17 15 50	19° 2'07	24°42	3° 7	3°13	4°58	20°33	28°57	3°17	26°27	24°56	0° 3	0°54	3°56	2° 5
S 9	17 19 46	19°59'15	8♐55	3°13	4°27	5°31	20°45	28°58	3°21	26°26	24°58	29♌57	0°50	4° 2	2° 6
S 10	17 23 43	20°56'22	23°36	3°23	5°40	6° 3	20°57	28°59	3°24	26°24	24°59	29°48	0°47	4° 9	2° 7
M11	17 27 39	21°53'30	8♌38	3°39	6°54	6°35	21°10	29° 1	3°27	26°23	25° 1	29°39	0°44	4°16	2° 8
T 12	17 31 36	22°50'37	23°53	4° 0	8° 7	7° 8	21°22	29° 2	3°31	26°22	25° 2	29°29	0°41	4°22	2° 9
W13	17 35 32	23°47'45	9♌ 3	4°26	9°21	7°41	21°34	29° 3	3°34	26°21	25° 4	29°21	0°38	4°29	2°10
T 14	17 39 29	24°44'52	24°17	4°57	10°34	8°14	21°47	29° 5	3°38	26°19	25° 5	29°15	0°35	4°36	2°11
F 15	17 43 26	25°42'00	9♌ 7	5°32	11°48	8°47	21°59	29° 6	3°41	26°18	25° 7	29°11	0°31	4°43	2°12
S 16	17 47 22	26°39'09	23°33	6°13	13° 1	9°20	22°11	29° 8	3°44	26°17	25° 8	29°D10	0°28	4°49	2°13
S 17	17 51 19	27°36'17	7♌32	6°59	14°15	9°54	22°24	29° 9	3°48	26°15	25°10	29°10	0°25	4°56	2°14
M18	17 55 15	28°33'27	21° 6	7°49	15°28	10°27	22°37	29°11	3°51	26°14	25°11	29°11	0°22	5° 3	2°15
T 19	17 59 12	29°30'36	4♑16	8°45	16°41	11° 1	22°49	29°13	3°54	26°13	25°13	29°R11	0°19	5° 9	2°15
W20	18 3 8	0♌27'47	27° 5	9°45	17°55	11°35	23° 2	29°15	3°58	26°11	25°14	29° 9	0°15	5°16	2°16
T 21	18 7 5	1°24'58	19°37	10°49	19° 8	12° 9	23°14	29°17	4° 1	26°10	25°16	29° 6	0°12	5°23	2°16
F 22	18 11 1	2°22'10	11♌56	11°58	20°22	12°43	23°27	29°20	4° 4	26° 8	25°17	29° 0	0° 9	5°29	2°17
S 23	18 14 58	3°19'22	24° 4	13°12	21°35	13°17	23°40	29°22	4° 7	26° 7	25°19	28°52	0° 6	5°36	2°17
S 24	18 18 55	4°16'35	6♐ 5	14°30	22°49	13°52	23°53	29°24	4°10	26° 5	25°21	28°43	0° 3	5°43	2°18
M25	18 22 51	5°13'49	18° 0	15°53	24° 2	14°26	24° 5	29°27	4°14	26° 4	25°22	28°32	0° 0	5°49	2°18
T 26	18 26 48	6°11'03	29°52	17°20	25°15	15° 1	24°18	29°29	4°17	26° 2	25°24	28°23	29♌56	5°56	2°19
W27	18 30 44	7° 8'18	11♌42	18°51	26°29	15°36	24°31	29°32	4°20	26° 1	25°25	28°14	29°53	6° 3	2°19
T 28	18 34 41	8° 5'33	23°32	20°26	27°42	16°11	24°44	29°35	4°23	25°59	25°27	28° 7	29°50	6°10	2°19
F 29	18 38 37	9° 2'49	5♏24	22° 5	28°56	16°46	24°57	29°37	4°26	25°58	25°28	28° 2	29°47	6°16	2°19
S 30	18 42 34	10♌ 0'06	17♏21	23♐47	0♏ 9	17♐21	25°510	29♐40	4♐29	25♌56	25♐30	27♌59	29♌44	6♌23	2♑19

Delta T = 01h04m57s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]

SWISS EPHEMERIS for the year 686

JULY 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
S 1	18 46 30	10 ⁵ 57'23	29 ^Ω 24	25 ^{II} 33	1 ^Ω 22	17 [♄] 56	25 ^Ω 23	29 [♄] 43	4 ^{II} 32	25 [°] R55	25 ^{II} 31	27 [♄] 59	29 [♄] 41	6 ^Ω 30	2 ^Υ 20
M 2	18 50 27	11 [°] 54'40	11 [♄] 38	27 [°] 23	2 [°] 36	18 [°] 32	25 [°] 36	29 [°] 47	4 [°] 35	25 [°] 53	25 [°] 32	28 [°] 0	29 [°] 37	6 [°] 36	2 [°] R20
T 3	18 54 24	12 [°] 51'58	24 [°] 7	29 [°] 15	3 [°] 49	19 [°] 7	25 [°] 48	29 [°] 50	4 [°] 38	25 [°] 51	25 [°] 34	28 [°] 1	29 [°] 34	6 [°] 43	2 [°] 20
W 4	18 58 20	13 [°] 49'16	6 [♄] 55	1 ^Ω 10	5 [°] 2	19 [°] 43	26 [°] 1	29 [°] 53	4 [°] 41	25 [°] 50	25 [°] 35	28 [°] 2	29 [°] 31	6 [°] 50	2 [°] 20
T 5	19 2 17	14 [°] 46'35	20 [°] 5	3 [°] 8	6 [°] 16	20 [°] 19	26 [°] 14	29 [°] 56	4 [°] 44	25 [°] 48	25 [°] 37	28 [°] R 2	29 [°] 28	6 [°] 56	2 [°] 19
F 6	19 6 13	15 [°] 43'55	3 [♄] 41	5 [°] 7	7 [°] 29	20 [°] 55	26 [°] 28	0 ^Ω 0	4 [°] 47	25 [°] 47	25 [°] 38	28 [°] 1	29 [°] 25	7 [°] 3	2 [°] 19
S 7	19 10 10	16 [°] 41'15	17 [°] 45	7 [°] 9	8 [°] 42	21 [°] 31	26 [°] 41	0 [°] 3	4 [°] 50	25 [°] 45	25 [°] 40	27 [°] 57	29 [°] 21	7 [°] 10	2 [°] 19
S 8	19 14 6	17 [°] 38'35	2 [♄] 16	9 [°] 11	9 [°] 56	22 [°] 7	26 [°] 54	0 [°] 7	4 [°] 53	25 [°] 43	25 [°] 41	27 [°] 53	29 [°] 18	7 [°] 17	2 [°] 19
M 9	19 18 3	18 [°] 35'57	17 [°] 9	11 [°] 15	11 [°] 9	22 [°] 43	27 [°] 7	0 [°] 11	4 [°] 55	25 [°] 42	25 [°] 43	27 [°] 47	29 [°] 15	7 [°] 23	2 [°] 19
T 10	19 21 59	19 [°] 33'19	2 [♄] 18	13 [°] 20	12 [°] 22	23 [°] 20	27 [°] 20	0 [°] 14	4 [°] 58	25 [°] 40	25 [°] 44	27 [°] 42	29 [°] 12	7 [°] 30	2 [°] 18
W11	19 25 56	20 [°] 30'42	17 [°] 32	15 [°] 25	13 [°] 35	23 [°] 56	27 [°] 33	0 [°] 18	5 [°] 1	25 [°] 39	25 [°] 45	27 [°] 37	29 [°] 9	7 [°] 37	2 [°] 18
T 12	19 29 53	21 [°] 28'07	2 [♄] 43	17 [°] 30	14 [°] 49	24 [°] 33	27 [°] 46	0 [°] 22	5 [°] 4	25 [°] 37	25 [°] 47	27 [°] 34	29 [°] 6	7 [°] 43	2 [°] 17
F 13	19 33 49	22 [°] 25'32	17 [°] 39	19 [°] 35	16 [°] 2	25 [°] 9	27 [°] 59	0 [°] 26	5 [°] 6	25 [°] 35	25 [°] 48	27 [°] 32	29 [°] 2	7 [°] 50	2 [°] 17
S 14	19 37 46	23 [°] 22'58	2 [♄] 14	21 [°] 40	17 [°] 15	25 [°] 46	28 [°] 12	0 [°] 30	5 [°] 9	25 [°] 34	25 [°] 50	27 [°] D32	28 [°] 59	7 [°] 57	2 [°] 16
S 15	19 41 42	24 [°] 20'26	16 [°] 23	23 [°] 44	18 [°] 28	26 [°] 23	28 [°] 25	0 [°] 34	5 [°] 12	25 [°] 32	25 [°] 51	27 [°] 32	28 [°] 56	8 [°] 3	2 [°] 16
M16	19 45 39	25 [°] 17'55	0 ^Υ 5	25 [°] 47	19 [°] 41	27 [°] 0	28 [°] 39	0 [°] 39	5 [°] 14	25 [°] 30	25 [°] 52	27 [°] 34	28 [°] 53	8 [°] 10	2 [°] 15
T 17	19 49 35	26 [°] 15'25	13 [°] 21	27 [°] 50	20 [°] 54	27 [°] 37	28 [°] 52	0 [°] 43	5 [°] 17	25 [°] 29	25 [°] 54	27 [°] 35	28 [°] 50	8 [°] 17	2 [°] 14
W18	19 53 32	27 [°] 12'57	26 [°] 12	29 [°] 51	22 [°] 8	28 [°] 15	29 [°] 5	0 [°] 47	5 [°] 19	25 [°] 27	25 [°] 55	27 [°] R36	28 [°] 47	8 [°] 23	2 [°] 14
T 19	19 57 28	28 [°] 10'30	8 [♄] 44	1 ^Ω 52	23 [°] 21	28 [°] 52	29 [°] 18	0 [°] 52	5 [°] 22	25 [°] 26	25 [°] 56	27 [°] 35	28 [°] 43	8 [°] 30	2 [°] 13
F 20	20 1 25	29 [°] 8'05	2 ^{II} 0	3 [°] 51	24 [°] 34	29 [°] 29	29 [°] 31	0 [°] 56	5 [°] 24	25 [°] 24	25 [°] 58	27 [°] 34	28 [°] 40	8 [°] 37	2 [°] 12
S 21	20 5 22	0 ^Ω 5'42	3 ^{II} 5	5 [°] 48	25 [°] 47	0 ^Ω 7	29 [°] 44	1 [°] 1	5 [°] 27	25 [°] 22	25 [°] 59	27 [°] 31	28 [°] 37	8 [°] 44	2 [°] 11
S 22	20 9 18	1 [°] 3'20	15 [°] 1	7 [°] 45	27 [°] 0	0 [°] 45	29 [°] 57	1 [°] 6	5 [°] 29	25 [°] 21	26 [°] 0	27 [°] 27	28 [°] 34	8 [°] 50	2 [°] 10
M23	20 13 15	2 [°] 0'59	26 [°] 53	9 [°] 40	28 [°] 13	1 [°] 23	0 ^Ω 11	1 [°] 11	5 [°] 31	25 [°] 19	26 [°] 2	27 [°] 22	28 [°] 31	8 [°] 57	2 [°] 9
T 24	20 17 11	2 [°] 58'40	8 ^Ω 43	11 [°] 33	29 [°] 26	2 [°] 1	0 [°] 24	1 [°] 15	5 [°] 33	25 [°] 17	26 [°] 3	27 [°] 18	28 [°] 27	9 [°] 4	2 [°] 8
W25	20 21 8	3 [°] 56'23	20 [°] 33	13 [°] 26	0 [♄] 39	2 [°] 39	0 [°] 37	1 [°] 20	5 [°] 36	25 [°] 16	26 [°] 4	27 [°] 15	28 [°] 24	9 [°] 10	2 [°] 7
T 26	20 25 4	4 [°] 54'07	2 ^Ω 27	15 [°] 17	1 [°] 52	3 [°] 17	0 [°] 50	1 [°] 25	5 [°] 38	25 [°] 14	26 [°] 5	27 [°] 12	28 [°] 21	9 [°] 17	2 [°] 6
F 27	20 29 1	5 [°] 51'52	14 [°] 26	17 [°] 6	3 [°] 5	3 [°] 55	1 [°] 3	1 [°] 30	5 [°] 40	25 [°] 13	26 [°] 7	27 [°] 10	28 [°] 18	9 [°] 24	2 [°] 5
S 28	20 32 58	6 [°] 49'39	26 [°] 31	18 [°] 54	4 [°] 18	4 [°] 33	1 [°] 16	1 [°] 35	5 [°] 42	25 [°] 11	26 [°] 8	27 [°] D 9	28 [°] 15	9 [°] 30	2 [°] 4
S 29	20 36 54	7 [°] 47'27	8 [♄] 46	20 [°] 40	5 [°] 31	5 [°] 12	1 [°] 29	1 [°] 41	5 [°] 44	25 [°] 9	26 [°] 9	27 [°] 10	28 [°] 12	9 [°] 37	2 [°] 3
M30	20 40 51	8 [°] 45'16	21 [°] 11	22 [°] 26	6 [°] 44	5 [°] 50	1 [°] 43	1 [°] 46	5 [°] 46	25 [°] 8	26 [°] 10	27 [°] 11	28 [°] 8	9 [°] 44	2 [°] 1
T 31	20 44 47	9 ^Ω 43'07	3 ^Ω 49	24 ^Ω 9	7 [♄] 57	6 ^Ω 29	1 ^Ω 56	1 ^Ω 51	5 ^{II} 48	25 [°] 6	26 ^{II} 11	27 [♄] 12	28 [♄] 5	9 ^Ω 50	2 ^Υ 0

Delta T = 01h04m56s Julian Calendar 1 July 686 == Greg. Calendar 4 July 686

AUGUST 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂	♂
W 1	20 48 44	10 ^Ω 40'59	16 ^Ω 44	25 ^Ω 52	9 [♄] 10	7 ^Ω 8	2 ^Ω 9	1 ^Ω 56	5 ^{II} 50	25 [°] R 5	26 ^{II} 13	27 [♄] 14	28 [♄] 2	9 ^Ω 57	1 [°] R59
T 2	20 52 40	11 [°] 38'52	29 [°] 57	27 [°] 33	10 [°] 23	7 [°] 46	2 [°] 22	2 [°] 2	5 [°] 52	25 [°] 3	26 [°] 14	27 [°] 15	27 [°] 59	10 [°] 4	1 [°] Υ57
F 3	20 56 37	12 [°] 36'47	13 [♄] 30	29 [°] 13	11 [°] 36	8 [°] 25	2 [°] 35	2 [°] 7	5 [°] 54	25 [°] 2	26 [°] 15	27 [°] R15	27 [°] 56	10 [°] 11	1 [°] 56
S 4	21 0 33	13 [°] 34'43	27 [°] 25	0 [♄] 51	12 [°] 48	9 [°] 4	2 [°] 48	2 [°] 13	5 [°] 56	25 [°] 0	26 [°] 16	27 [°] 14	27 [°] 52	10 [°] 17	1 [°] 54
S 5	21 4 30	14 [°] 32'40	11 [♄] 41	2 [°] 28	14 [°] 1	9 [°] 43	3 [°] 1	2 [°] 18	5 [°] 58	24 [°] 59	26 [°] 17	27 [°] 13	27 [°] 49	10 [°] 24	1 [°] 53
M 6	21 8 27	15 [°] 30'39	26 [°] 17	4 [°] 4	15 [°] 14	10 [°] 23	3 [°] 14	2 [°] 24	5 [°] 59	24 [°] 57	26 [°] 18	27 [°] 12	27 [°] 46	10 [°] 31	1 [°] 51
T 7	21 12 23	16 [°] 28'39	11 [♄] 6	5 [°] 38	16 [°] 27	11 [°] 2	3 [°] 27	2 [°] 30	6 [°] 1	24 [°] 56	26 [°] 19	27 [°] 11	27 [°] 43	10 [°] 37	1 [°] 50
W 8	21 16 20	17 [°] 26'41	26 [°] 4	7 [°] 12	17 [°] 40	11 [°] 41	3 [°] 40	2 [°] 36	6 [°] 3	24 [°] 54	26 [°] 20	27 [°] 10	27 [°] 40	10 [°] 44	1 [°] 48
T 9	21 20 16	18 [°] 24'45	11 [♄] 1	8 [°] 43	18 [°] 52	12 [°] 21	3 [°] 53	2 [°] 41	6 [°] 4	24 [°] 53	26 [°] 21	27 [°] 9	27 [°] 37	10 [°] 51	1 [°] 46
F 10	21 24 13	19 [°] 22'50	25 [°] 50	10 [°] 14	20 [°] 5	13 [°] 0	4 [°] 6	2 [°] 47	6 [°] 6	24 [°] 51	26 [°] 22	27 [°] D 9	27 [°] 33	10 [°] 57	1 [°] 44
S 11	21 28 9	20 [°] 20'56	10 [♄] 23	11 [°] 43	21 [°] 18	13 [°] 40	4 [°] 19	2 [°] 53	6 [°] 7	24 [°] 50	26 [°] 23	27 [°] 9	27 [°] 30	11 [°] 4	1 [°] 43
S 12	21 32 6	21 [°] 19'05	24 [°] 35	13 [°] 11	22 [°] 30	14 [°] 20	4 [°] 32	2 [°] 59	6 [°] 9	24 [°] 48	26 [°] 24	27 [°] 9	27 [°] 27	11 [°] 11	1 [°] 41
M13	21 36 2	22 [°] 17'15	8 ^Υ 22	14 [°] 38	23 [°] 43	15 [°] 0	4 [°] 44	3 [°] 5	6 [°] 10	24 [°] 47	26 [°] 25	27 [°] 10	27 [°] 24	11 [°] 17	1 [°] 39
T 14	21 39 59	23 [°] 15'28	21 [°] 43	16 [°] 3	24 [°] 55	15 [°] 40	4 [°] 57	3 [°] 11	6 [°] 12	24 [°] 46	26 [°] 26	27 [°] 10	27 [°] 21	11 [°] 24	1 [°] 37
W15	21 43 56	24 [°] 13'42	4 [♄] 40	17 [°] 27	26 [°] 8	16 [°] 20	5 [°] 10	3 [°] 17	6 [°] 13	24 [°] 44	26 [°] 27	27 [°] 11	27 [°] 18	11 [°] 31	1 [°] 35
T 16	21 47 52	25 [°] 11'59	17 [°] 16	18 [°] 50	27 [°] 20	17 [°] 0	5 [°] 23	3 [°] 23	6 [°] 14	24 [°] 43	26 [°] 28	27 [°] 11	27 [°] 14	11 [°] 37	1 [°] 33
F 17	21 51 49	26 [°] 10'18	29 [°] 33	20 [°] 11	28 [°] 33	17 [°] 40									

SWISS EPHEMERIS for the year 686

SEPTEMBER 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	22 50 57	10 ^h 49'10	7 ^h 54	6 ^h 51	16 ^h 37	27 ^h 54	8 ^h 41	5 ^h 8	6 ^h 28	24 ^h R24	26 ^h 40	27 ^h 6	26 ^h 24	13 ^h 24	0 ^h R58
S 2	22 54 54	11°48'01	22° 0	7°38	17°49	28°36	8°53	5°15	6°28	24 ^h 23	26°40	27° 6	26°20	13°31	0 ^h Y56
M 3	22 58 50	12°46'53	6 ^h 37	8°20	19° 1	29°18	9° 5	5°21	6°28	24°22	26°41	27° 7	26°17	13°38	0°54
T 4	23 2 47	13°45'47	20°44	8°59	20°13	29°59	9°17	5°28	6°29	24°21	26°41	27° 8	26°14	13°44	0°51
W 5	23 6 43	14°44'43	5 ^h 16	9°34	21°25	0 ^h 41	9°29	5°35	6°29	24°20	26°42	27° 9	26°11	13°51	0°49
T 6	23 10 40	15°43'41	19°48	10° 4	22°37	1°23	9°41	5°42	6°29	24°19	26°42	27°R10	26° 8	13°58	0°46
F 7	23 14 36	16°42'41	4 ^h 16	10°29	23°48	2° 5	9°53	5°49	6°29	24°18	26°43	27°10	26° 4	14° 5	0°44
S 8	23 18 33	17°41'43	18°34	10°48	25° 0	2°47	10° 4	5°56	6°29	24°18	26°43	27° 9	26° 1	14°11	0°41
S 9	23 22 29	18°40'46	2 ^h Y36	11° 1	26°12	3°30	10°16	6° 3	6°R29	24°17	26°43	27° 7	25°58	14°18	0°39
M10	23 26 26	19°39'52	16°19	11° 8	27°23	4°12	10°28	6°10	6°29	24°16	26°44	27° 4	25°55	14°25	0°36
T 11	23 30 22	20°39'00	29°40	11°R 8	28°35	4°54	10°39	6°17	6°29	24°15	26°44	27° 0	25°52	14°31	0°34
W12	23 34 19	21°38'11	12 ^h 39	11° 2	29°47	5°37	10°50	6°24	6°29	24°15	26°44	26°56	25°49	14°38	0°31
T 13	23 38 16	22°37'24	25°17	10°47	0 ^h 58	6°19	11° 2	6°31	6°29	24°14	26°45	26°53	25°45	14°45	0°29
F 14	23 42 12	23°36'39	7 ^h 37	10°25	2°10	7° 2	11°13	6°38	6°29	24°13	26°45	26°51	25°42	14°51	0°26
S 15	23 46 9	24°35'57	19°42	9°54	3°21	7°44	11°24	6°46	6°29	24°13	26°45	26°D50	25°39	14°58	0°24
S 16	23 50 5	25°35'17	1 ^h 38	9°16	4°32	8°27	11°35	6°53	6°28	24°12	26°45	26°50	25°36	15° 5	0°21
M17	23 54 2	26°34'39	13°28	8°30	5°44	9°10	11°46	7° 0	6°28	24°11	26°46	26°51	25°33	15°11	0°18
T 18	23 57 58	27°34'04	25°19	7°36	6°55	9°53	11°57	7° 7	6°27	24°11	26°46	26°53	25°30	15°18	0°16
W19	0 1 55	28°33'31	7 ^h 14	6°36	8° 6	10°36	12° 8	7°14	6°27	24°10	26°46	26°54	25°26	15°25	0°13
T 20	0 5 51	29°33'00	19°18	5°30	9°17	11°19	12°19	7°21	6°26	24°10	26°46	26°56	25°23	15°31	0°11
F 21	0 9 48	0 ^h 32'32	1 ^h 35	4°20	10°28	12° 2	12°30	7°29	6°26	24°10	26°46	26°R56	25°20	15°38	0° 8
S 22	0 13 45	1°32'06	14° 7	3° 7	11°40	12°45	12°40	7°36	6°25	24° 9	26°46	26°54	25°17	15°45	0° 6
S 23	0 17 41	2°31'41	26°56	1°54	12°51	13°28	12°51	7°43	6°25	24° 9	26°46	26°51	25°14	15°51	0° 3
M24	0 21 38	3°31'19	10 ^h 2	0°42	14° 2	14°12	13° 1	7°50	6°24	24° 8	26°R46	26°46	25°10	15°58	0° 0
T 25	0 25 34	4°31'00	23°24	29 ^h 35	15°12	14°55	13°12	7°57	6°23	24° 8	26°46	26°40	25° 7	16° 5	29 ^h 58
W26	0 29 31	5°30'42	7 ^h 1	28°32	16°23	15°39	13°22	8° 5	6°22	24° 8	26°46	26°34	25° 4	16°11	29°55
T 27	0 33 27	6°30'26	20°49	27°38	17°34	16°22	13°32	8°12	6°21	24° 8	26°46	26°28	25° 1	16°18	29°53
F 28	0 37 24	7°30'12	4 ^h 46	26°52	18°45	17° 6	13°42	8°19	6°20	24° 7	26°46	26°22	24°58	16°25	29°50
S 29	0 41 20	8°29'59	18°49	26°17	19°55	17°50	13°52	8°26	6°19	24° 7	26°46	26°19	24°55	16°31	29°48
S 30	0 45 17	9 ^h 29'49	2 ^h 55	25 ^h 52	21 ^h 6	18 ^h 34	14 ^h 2	8 ^h 34	6 ^h 18	24 ^h 7	26 ^h 46	26 ^h 17	24 ^h 51	16 ^h 38	29 ^h 45

Delta T = 01h04m54s Julian Calendar 1 Sept. 686 == Greg. Calendar 4 Sept. 686

OCTOBER 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
M 1	0 49 14	10 ^h 29'40	17 ^h 3	25°R39	22 ^h M17	19 ^h M17	14 ^h 12	8 ^h 41	6°R17	24°R 7	26°R46	26 ^h 17	24 ^h 48	16 ^h 45	29°R43
T 2	0 53 10	11°29'33	1 ^h 13	25°D37	23°27	20° 1	14°22	8°48	6 ^h 16	24 ^h 3	26 ^h 46	26°18	24°45	16°51	29 ^h 40
W 3	0 57 7	12°29'27	15°21	25 ^h 46	24°37	20°45	14°31	8°55	6°15	24°D 7	26°45	26°19	24°42	16°58	29°37
T 4	1 1 3	13°29'24	29°26	26° 6	25°48	21°29	14°41	9° 3	6°14	24° 7	26°45	26°R20	24°39	17° 5	29°35
F 5	1 5 0	14°29'21	13 ^h 26	26°36	26°58	22°14	14°50	9°10	6°12	24° 7	26°45	26°18	24°35	17°11	29°33
S 6	1 8 56	15°29'21	27°19	27°15	28° 8	22°58	14°59	9°17	6°11	24° 7	26°45	26°15	24°32	17°18	29°30
S 7	1 12 53	16°29'23	11 ^h Y 0	28° 2	29°18	23°42	15° 8	9°24	6°10	24° 7	26°44	26° 9	24°29	17°25	29°28
M 8	1 16 49	17°29'26	24°28	28°56	0 ^h 28	24°26	15°17	9°31	6° 8	24° 7	26°44	26° 1	24°26	17°31	29°25
T 9	1 20 46	18°29'31	7 ^h 39	29°58	1°38	25°11	15°26	9°39	6° 7	24° 8	26°44	25°51	24°23	17°38	29°23
W10	1 24 43	19°29'39	20°33	1 ^h 4	2°47	25°55	15°35	9°46	6° 5	24° 8	26°43	25°42	24°20	17°45	29°20
T 11	1 28 39	20°29'48	3 ^h 8	2°16	3°57	26°40	15°44	9°53	6° 4	24° 8	26°43	25°32	24°16	17°51	29°18
F 12	1 32 36	21°30'00	15°27	3°33	5° 7	27°24	15°52	10° 0	6° 2	24° 8	26°43	25°25	24°13	17°58	29°16
S 13	1 36 32	22°30'14	27°32	4°52	6°16	28° 9	16° 1	10° 7	6° 1	24° 9	26°42	25°19	24°10	18° 5	29°13
S 14	1 40 29	23°30'29	9 ^h 27	6°15	7°25	28°54	16° 9	10°14	5°59	24° 9	26°42	25°16	24° 7	18°12	29°11
M15	1 44 25	24°30'47	21°17	7°41	8°35	29°38	16°17	10°21	5°57	24° 9	26°41	25°D14	24° 4	18°18	29° 9
T 16	1 48 22	25°31'07	3 ^h 0	9° 9	9°44	0 ^h 23	16°26	10°28	5°56	24°10	26°41	25°15	24° 1	18°25	29° 7
W17	1 52 18	26°31'29	15° 2	10°38	10°53	1° 8	16°34	10°36	5°54	24°10	26°40	25°15	23°57	18°32	29° 4
T 18	1 56 15	27°31'53	27° 7	12° 9	12° 2	1°53	16°41	10°43	5°52	24°11	26°40	25°R16	23°54	18°38	29° 2
F 19	2 0 12	28°32'19	9 ^h 28	13°41	13°10	2°38	16°49	10°50	5°50	24°11	26°39	25°15	23°51	18°45	29° 0
S 20	2 4 8	29°32'46	22° 8	15°14	14°19	3°23	16°57	10°57	5°48	24°12	26°39	25°11	23°48	18°52	28°58
S 21	2 8 5	0 ^h 33'16	5 ^h 10	16°48	15°28	4° 8	17° 4	11° 4	5°46	24°12	26°38	25° 5	23°45	18°58	28°56
M22	2 12 1	1°33'47	18°35	18°23	16°36	4°54	17°11	11°11	5°44	24°13	26°37	24°57	23°41	19° 5	28°54
T 23	2 15 58	2°34'20	2 ^h M21	19°58	17°44	5°39	17°18	11°17	5°42	24°14	26°37	24°46	23°38	19°12	28°52
W24	2 19 54	3°34'55	16°25	21°33	18°53	6°24	17°25	11°24	5°40	24°14	26°36	24°35	23°35	19°18	28°49
T 25	2 23 51	4°35'31	0 ^h 42	23° 8	20° 1	7°10	17°32	11°31	5°38	24°15	26°35	24°24	23°32	19°25	28°48
F 26	2 27 47	5°36'09	15° 6	24°44	21° 8	7°55	17°39	11°38	5°36	24°16	26°35	24°14	23°29	19°32	28°46
S 27	2 31 44	6°36'48	29°30	26°19	22°16	8°40	17°46	11°45	5°34	24°16	26°34	24° 7	23°26	19°38	28°44
S 28	2 35 41	7°37'29	13 ^h 51	27°55	23°24	9°26	17°52	11°52	5°32	24°17	26°33	24° 2	23°22	19°45	28°42
M29	2 39 37	8°38'10	28° 4	29°30	24°31	10°12	17°58	11°58	5°30	24°18	26°32	24° 0	23°19	19°52	28°40
T 30	2 43 34	9°38'53	12 ^h 9	1 ^h M 6	25°38	10°57	18° 4	12° 5	5°27	24°19	26°32	24°D 0	23°16	19°58	28°38
W31	2 47 30	10 ^h 39'36	26 ^h 3	2 ^h M41	26 ^h 45	11 ^h 43	18 ^h 10	12 ^h 12	5 ^h 25	24 ^h 20	26 ^h 31	24°R 0	23 ^h 13	20 ^h 5	28 ^h 36

Delta T = 01h04m53s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [10.1.2003]

SWISS EPHEMERIS for the year 686

NOVEMBER 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
T 1	2 51 27	11♁40'21	9♁49	4♁16	27♁52	12♁29	18♁16	12♁18	5°R23	24♁21	26°R30	23°R59	23≈10	20♁12	28°R35
F 2	2 55 23	12°41'07	23°25	5°52	28°59	13°15	18°22	12°25	5♁21	24°22	26♁29	23≈56	23° 7	20°18	28♁33
S 3	2 59 20	13°41'54	6♁51	7°27	0♁ 5	14° 0	18°27	12°32	5°18	24°23	26°28	23°50	23° 3	20°25	28°31
S 4	3 3 16	14°42'42	20° 8	9° 2	1°12	14°46	18°32	12°38	5°16	24°24	26°27	23°42	23° 0	20°32	28°30
M 5	3 7 13	15°43'31	3♁14	10°37	2°18	15°32	18°38	12°45	5°14	24°25	26°27	23°30	22°57	20°38	28°28
T 6	3 11 10	16°44'22	16° 7	12°11	3°23	16°18	18°43	12°51	5°11	24°26	26°26	23°17	22°54	20°45	28°27
W 7	3 15 6	17°45'13	28°47	13°46	4°29	17° 4	18°47	12°57	5° 9	24°27	26°25	23° 2	22°51	20°52	28°25
T 8	3 19 3	18°46'06	11♁13	15°21	5°34	17°50	18°52	13° 4	5° 6	24°28	26°24	22°49	22°47	20°58	28°24
F 9	3 22 59	19°47'01	23°27	16°55	6°39	18°36	18°57	13°10	5° 4	24°30	26°23	22°37	22°44	21° 5	28°22
S 10	3 26 56	20°47'56	5♁29	18°29	7°44	19°23	19° 1	13°16	5° 2	24°31	26°22	22°28	22°41	21°12	28°21
S 11	3 30 52	21°48'53	17°22	20° 4	8°49	20° 9	19° 5	13°22	4°59	24°32	26°21	22°21	22°38	21°18	28°20
M12	3 34 49	22°49'51	29°10	21°38	9°53	20°55	19° 9	13°29	4°57	24°33	26°20	22°17	22°35	21°25	28°18
T 13	3 38 45	23°50'51	10♁58	23°12	10°57	21°41	19°13	13°35	4°54	24°35	26°19	22°16	22°32	21°32	28°17
W14	3 42 42	24°51'51	22°50	24°47	12° 1	22°28	19°16	13°41	4°52	24°36	26°18	22°16	22°28	21°38	28°16
T 15	3 46 39	25°52'53	4♁53	26°21	13° 4	23°14	19°20	13°47	4°49	24°37	26°17	22°16	22°25	21°45	28°15
F 16	3 50 35	26°53'56	17°13	27°55	14° 7	24° 1	19°23	13°53	4°47	24°39	26°16	22°14	22°22	21°52	28°14
S 17	3 54 32	27°55'00	29°53	29°30	15°10	24°47	19°26	13°59	4°44	24°40	26°15	22°11	22°19	21°58	28°13
S 18	3 58 28	28°56'05	12♁58	1♁ 4	16°13	25°34	19°29	14° 4	4°42	24°42	26°14	22° 5	22°16	22° 5	28°12
M19	4 2 25	29°57'11	26°31	2°39	17°15	26°20	19°32	14°10	4°39	24°43	26°12	21°56	22°13	22°12	28°11
T 20	4 6 21	0♁58'18	10♁31	4°13	18°17	27° 7	19°34	14°16	4°36	24°45	26°11	21°45	22° 9	22°18	28°10
W21	4 10 18	1°59'26	24°54	5°48	19°18	27°54	19°37	14°22	4°34	24°46	26°10	21°33	22° 6	22°25	28° 9
T 22	4 14 14	3° 0'35	9♁35	7°23	20°19	28°40	19°39	14°27	4°31	24°48	26° 9	21°21	22° 3	22°32	28° 8
F 23	4 18 11	4° 1'44	24°26	8°58	21°20	29°27	19°41	14°33	4°29	24°49	26° 8	21°11	22° 0	22°38	28° 7
S 24	4 22 8	5° 2'54	9♁17	10°33	22°20	0♁14	19°43	14°38	4°26	24°51	26° 7	21° 2	21°57	22°45	28° 7
S 25	4 26 4	6° 4'05	24° 1	12° 8	23°20	1° 0	19°44	14°44	4°24	24°52	26° 6	20°57	21°53	22°52	28° 6
M26	4 30 1	7° 5'16	8≈32	13°43	24°19	1°47	19°45	14°49	4°21	24°54	26° 4	20°55	21°50	22°58	28° 6
T 27	4 33 57	8° 6'26	22°47	15°18	25°18	2°34	19°47	14°54	4°18	24°56	26° 3	20°D54	21°47	23° 5	28° 5
W28	4 37 54	9° 7'37	6♁43	16°54	26°17	3°21	19°48	14°59	4°16	24°57	26° 2	20°R55	21°44	23°12	28° 5
T 29	4 41 50	10° 8'48	20°23	18°29	27°15	4° 8	19°48	15° 5	4°13	24°59	26° 1	20°54	21°41	23°18	28° 4
F 30	4 45 47	11♁ 9'59	3♁46	20♁ 5	28♁12	4♁55	19♁49	15♁10	4♁11	25♁ 1	26♁ 0	20≈52	21≈38	23≈25	28♁ 4

Delta T = 01h04m52s Julian Calendar 1 Nov. 686 == Greg. Calendar 4 Nov. 686

DECEMBER 686 C.E.JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♁	♁	♁	♁	♁	♁
S 1	4 49 43	12♁11'10	16♁55	21♁41	29♁ 9	5♁42	19♁49	15♁15	4°R 8	25♁ 3	25°R58	20°R47	21≈34	23≈32	28°R 3
S 2	4 53 40	13°12'22	29°51	23°17	0≈ 5	6°29	19°50	15°20	4♁ 6	25° 5	25♁57	20≈40	21°31	23°38	28♁ 3
M 3	4 57 37	14°13'33	12♁35	24°53	1° 1	7°16	19°R50	15°24	4° 3	25° 6	25°56	20°30	21°28	23°45	28° 3
T 4	5 1 33	15°14'45	25° 9	26°29	1°56	8° 3	19°50	15°29	4° 1	25° 8	25°55	20°18	21°25	23°52	28° 3
W 5	5 5 30	16°15'56	7♁32	28° 5	2°50	8°50	19°49	15°34	3°58	25°10	25°54	20° 5	21°22	23°58	28° 3
T 6	5 9 26	17°17'08	19°46	29°41	3°44	9°37	19°49	15°38	3°56	25°12	25°52	19°53	21°19	24° 5	28° 2
F 7	5 13 23	18°18'20	19°50	1♁16	4°37	10°24	19°48	15°43	3°53	25°14	25°51	19°42	21°15	24°12	28°D 2
S 8	5 17 19	19°19'32	13°47	2°51	5°29	11°11	19°47	15°48	3°51	25°16	25°50	19°34	21°12	24°18	28° 2
S 9	5 21 16	20°20'44	25°37	4°26	6°21	11°58	19°46	15°52	3°48	25°18	25°49	19°28	21° 9	24°25	28° 3
M10	5 25 13	21°21'57	7♁24	6° 1	7°12	12°46	19°45	15°56	3°46	25°20	25°47	19°25	21° 6	24°32	28° 3
T 11	5 29 9	22°23'09	19°11	7°34	8° 2	13°33	19°43	16° 0	3°44	25°22	25°46	19°D24	21° 3	24°38	28° 3
W12	5 33 6	23°24'22	1♁ 3	9° 7	8°51	14°20	19°41	16° 5	3°41	25°24	25°45	19°24	20°59	24°45	28° 3
T 13	5 37 2	24°25'34	13° 4	10°39	9°39	15° 7	19°39	16° 9	3°39	25°26	25°44	19°26	20°56	24°52	28° 3
F 14	5 40 59	25°26'47	25°19	12° 9	10°27	15°55	19°37	16°13	3°37	25°28	25°42	19°R26	20°53	24°58	28° 4
S 15	5 44 55	26°28'00	7♁55	13°38	11°13	16°42	19°35	16°17	3°34	25°30	25°41	19°25	20°50	25° 5	28° 4
S 16	5 48 52	27°29'13	20°55	15° 4	11°59	17°29	19°32	16°20	3°32	25°32	25°40	19°23	20°47	25°11	28° 5
M17	5 52 48	28°30'26	4♁24	16°28	12°43	18°16	19°30	16°24	3°30	25°34	25°39	19°18	20°44	25°18	28° 5
T 18	5 56 45	29°31'39	18°22	17°49	13°26	19° 4	19°27	16°28	3°27	25°36	25°37	19°11	20°40	25°25	28° 6
W19	6 0 42	0♁32'52	2♁48	19° 7	14° 9	19°51	19°24	16°31	3°25	25°38	25°36	19° 3	20°37	25°31	28° 6
T 20	6 4 38	1°34'04	17°38	20°20	14°50	20°38	19°21	16°35	3°23	25°40	25°35	18°55	20°34	25°38	28° 7
F 21	6 8 35	2°35'17	2♁43	21°29	15°30	21°26	19°17	16°38	3°21	25°42	25°34	18°48	20°31	25°45	28° 8
S 22	6 12 31	3°36'29	17°54	22°32	16° 9	22°13	19°14	16°41	3°19	25°44	25°32	18°43	20°28	25°51	28° 8
S 23	6 16 28	4°37'40	3≈ 1	23°28	16°46	23° 1	19°10	16°45	3°17	25°46	25°31	18°39	20°25	25°58	28° 9
M24	6 20 24	5°38'50	17°54	24°18	17°22	23°48	19° 6	16°48	3°15	25°49	25°30	18°D38	20°21	26° 5	28°10
T 25	6 24 21	6°40'00	2♁28	24°59	17°57	24°35	19° 2	16°51	3°13	25°51	25°29	18°39	20°18	26°11	28°11
W26	6 28 17	7°41'09	16°38	25°31	18°30	25°23	18°57	16°54	3°11	25°53	25°27	18°40	20°15	26°18	28°12
T 27	6 32 14	8°42'16	0♁25	25°54	19° 2	26°10	18°53	16°56	3° 9	25°55	25°26	18°42	20°12	26°25	28°13
F 28	6 36 11	9°43'23	13°49	26° 6	19°32	26°58	18°48	16°59	3° 7	25°57	25°25	18°R42	20° 9	26°31	28°14
S 29	6 40 7	10°44'29	26°53	26°R 7	20° 1	27°45	18°44	17° 2	3° 5	26° 0	25°24	18°40	20° 5	26°38	28°15
S 30	6 44 4	11°45'34	9♁39	25°56	20°27	28°32	18°39	17° 4	3° 3	26° 2	25°23	18°37	20° 2	26°45	28°16
M31	6 48 0	12♁46'37	22♁10	25♁33	20≈52	29♁20	18♁33	17♁ 7	3♁ 1	26♁ 4	25♁21	18≈33	19≈59	26≈51	28♁18

Delta T = 01h04m52s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiest AG [10.1.2003]