

SWISS EPHEMERIS for the year 1664 BCE

JANUARY 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
F 1	5 43 16	27°40'19	28°48'48	3°35'45	3°R 2	29°29'29	24°R38	23°38'43	10°R53	22°31'31	9°35'56	25°38'40	24°38'23	3°37'44	n.a.
S 2	5 47 13	28°40'55	13°38'20	5°35'25	2°35'25	29°41'41	24°38'32	23°49'49	10°51'51	22°31'31	9°58'58	25°41'41	24°19'19	3°51'51	n.a.
S 3	5 51 9	29°41'29	28°10'10	7°26'10	1°47'10	29°52'52	24°26'26	23°55'55	10°50'50	22°31'31	9°59'59	25°R41	24°16'16	3°57'57	n.a.
M 4	5 55 6	0°34'21	13°11'13	9°16'16	1°10'10	0°11'11	24°21'21	24°1'1	10°48'48	22°31'31	10°1'1	25°40'40	24°13'13	4°4'4	n.a.
T 5	5 59 2	1°42'32	28°20'20	11°7'7	0°32'32	0°12'12	24°16'16	24°7'7	10°47'47	22°31'31	10°3'3	25°37'37	24°10'10	4°11'11	n.a.
W 6	6 2 59	2°43'00	13°23'23	12°57'57	29°35'54	0°22'22	24°11'11	24°13'13	10°46'46	22°32'32	10°4'4	25°33'33	24°7'7	4°17'17	n.a.
T 7	6 6 56	3°43'27	28°12'12	14°47'47	29°17'17	0°31'31	24°6'6	24°19'19	10°44'44	22°R32	10°6'6	25°27'27	24°4'4	4°24'24	n.a.
F 8	6 10 52	4°43'52	12°13'38	16°36'36	28°41'41	0°39'39	24°2'2	24°25'25	10°43'43	22°32'32	10°8'8	25°21'21	24°0'0	4°31'31	n.a.
S 9	6 14 49	5°44'16	26°38'38	18°24'24	28°6'6	0°46'46	23°57'57	24°31'31	10°42'42	22°31'31	10°9'9	25°15'15	23°57'57	4°37'37	n.a.
S 10	6 18 45	6°44'38	10°11'9	20°10'10	27°32'32	0°53'53	23°53'53	24°37'37	10°41'41	22°31'31	10°11'11	25°10'10	23°54'54	4°44'44	n.a.
M11	6 22 42	7°44'58	23°12'12	21°55'55	27°0'0	1°0'0	23°49'49	24°43'43	10°40'40	22°31'31	10°13'13	25°7'7	23°51'51	4°51'51	n.a.
T 12	6 26 38	8°45'16	5°52'50	23°38'38	26°29'29	1°5'5	23°45'45	24°49'49	10°39'39	22°31'31	10°14'14	25°D 6	23°48'48	4°57'57	n.a.
W13	6 30 35	9°45'33	18°8'8	25°18'18	26°0'0	1°10'10	23°41'41	24°54'54	10°38'38	22°31'31	10°16'16	25°6'6	23°44'44	5°4'4	n.a.
T 14	6 34 31	10°45'48	0°11'10	26°55'55	25°33'33	1°15'15	23°38'38	25°0'0	10°37'37	22°31'31	10°18'18	25°8'8	23°41'41	5°11'11	n.a.
F 15	6 38 28	11°46'01	12°2'2	28°28'28	25°8'8	1°18'18	23°34'34	25°6'6	10°36'36	22°30'30	10°20'20	25°9'9	23°38'38	5°17'17	n.a.
S 16	6 42 25	12°46'13	23°49'49	29°57'57	24°45'45	1°21'21	23°31'31	25°11'11	10°35'35	22°30'30	10°21'21	25°R10	23°35'35	5°24'24	n.a.
S 17	6 46 21	13°46'23	5°37'35	1°22'20	24°25'25	1°24'24	23°28'28	25°17'17	10°34'34	22°30'30	10°23'23	25°9'9	23°32'32	5°31'31	n.a.
M18	6 50 18	14°46'31	17°24'24	2°38'38	24°6'6	1°25'25	23°25'25	25°22'22	10°33'33	22°30'30	10°25'25	25°6'6	23°29'29	5°37'37	n.a.
T 19	6 54 14	15°46'38	29°19'19	3°50'50	23°51'51	1°26'26	23°23'23	25°28'28	10°33'33	22°29'29	10°26'26	25°1'1	23°25'25	5°44'44	n.a.
W20	6 58 11	16°46'42	11°32'22	4°55'55	23°38'38	1°R26	23°20'20	25°33'33	10°32'32	22°29'29	10°28'28	24°54'54	23°22'22	5°50'50	n.a.
T 21	7 2 7	17°46'44	23°36'36	5°53'53	23°27'27	1°25'25	23°18'18	25°38'38	10°32'32	22°28'28	10°30'30	24°45'45	23°19'19	5°57'57	n.a.
F 22	7 6 4	18°46'44	6°30'30	6°43'43	23°19'19	1°24'24	23°16'16	25°43'43	10°31'31	22°28'28	10°32'32	24°34'34	23°16'16	6°4'4	n.a.
S 23	7 10 0	19°46'42	18°36'36	7°25'25	23°13'13	1°22'22	23°14'14	25°48'48	10°31'31	22°27'27	10°33'33	24°24'24	23°13'13	6°10'10	n.a.
S 24	7 13 57	20°46'38	1°18'24	7°59'59	23°10'10	1°19'19	23°12'12	25°54'54	10°30'30	22°27'27	10°35'35	24°15'15	23°10'10	6°17'17	n.a.
M25	7 17 54	21°46'31	14°24'24	8°23'23	23°D 9	1°15'15	23°11'11	25°59'59	10°30'30	22°26'26	10°37'37	24°7'7	23°6'6	6°24'24	n.a.
T 26	7 21 50	22°46'22	27°37'37	8°39'39	23°10'10	1°10'10	23°10'10	26°3'3	10°29'29	22°26'26	10°38'38	24°2'2	23°3'3	6°30'30	n.a.
W27	7 25 47	23°46'10	11°11'10	3°48'46	8°R46	23°14'14	1°5'5	23°9'9	26°8'8	10°29'29	10°40'40	23°59'59	23°0'0	6°37'37	n.a.
T 28	7 29 43	24°45'56	24°45'56	8°44'44	23°20'20	0°59'59	23°8'8	26°13'13	10°29'29	22°24'24	10°42'42	23°D58	22°57'57	6°44'44	n.a.
F 29	7 33 40	25°45'40	8°42'42	8°33'33	23°29'29	0°52'52	23°7'7	26°18'18	10°29'29	22°24'24	10°43'43	23°58'58	22°54'54	6°50'50	n.a.
S 30	7 37 36	26°45'21	22°56'56	8°14'14	23°39'39	0°45'45	23°7'7	26°22'22	10°29'29	22°23'23	10°45'45	23°R59	22°50'50	6°57'57	n.a.
S 31	7 41 33	27°35'00	7°11'24	7°34'47	23°35'52	0°11'36	23°3'6	26°27'27	10°D29	22°11'22	10°34'47	23°38'58	22°47'47	7°3'4	n.a.

Delta T = 11h07m58s Julian Calendar 1 Jan. 1664 BCE == Greg. Calendar 18 Dec. 1665 BCE
 The year -1663 astronomical counting style corresponds to year 1664 B.C.E historical counting style.

FEBRUARY 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♁	♂
M 1	7 45 29	28°34'36	22°11'4	7°R13	24°37'7	0°R27	23°D 6	26°11'31	10°38'29	22°R21	10°34'48	23°R55	22°38'44	7°31'10	n.a.
T 2	7 49 26	29°44'10	6°35'50	6°33'33	24°24'24	0°11'17	23°3'6	26°36'36	10°29'29	22°11'21	10°50'50	23°35'50	22°41'41	7°17'17	n.a.
W 3	7 53 23	0°34'42	21°36'36	5°48'48	24°43'43	0°7'7	23°7'7	26°40'40	10°29'29	22°20'20	10°51'51	23°42'42	22°38'38	7°24'24	n.a.
T 4	7 57 19	1°43'11	6°11'13	4°59'59	25°3'3	29°35'55	23°7'7	26°45'45	10°29'29	22°19'19	10°53'53	23°32'32	22°35'35	7°30'30	n.a.
F 5	8 1 16	2°42'39	20°34'34	4°6'6	25°26'26	29°43'43	23°8'8	26°49'49	10°29'29	22°18'18	10°55'55	23°21'21	22°31'31	7°37'37	n.a.
S 6	8 5 12	3°42'04	4°11'33	3°12'12	25°50'50	29°30'30	23°9'9	26°53'53	10°29'29	22°17'17	10°56'56	23°10'10	22°28'28	7°44'44	n.a.
S 7	8 9 9	4°41'27	18°6'6	2°17'17	26°16'16	29°17'17	23°10'10	26°57'57	10°30'30	22°16'16	10°58'58	23°1'1	22°25'25	7°50'50	n.a.
M 8	8 13 5	5°40'48	1°13'13	1°22'22	26°44'44	29°2'2	23°11'11	27°1'1	10°30'30	22°15'15	10°59'59	22°54'54	22°22'22	7°57'57	n.a.
T 9	8 17 2	6°40'06	13°55'55	0°30'30	27°13'13	28°47'47	23°12'12	27°5'5	10°31'31	22°14'14	11°1'1	22°49'49	22°19'19	8°4'4	n.a.
W10	8 20 58	7°39'23	26°16'16	29°33'39	27°44'44	28°32'32	23°14'14	27°9'9	10°31'31	22°13'13	11°3'3	22°47'47	22°15'15	8°10'10	n.a.
T 11	8 24 55	8°38'39	8°11'21	28°52'52	28°16'16	28°15'15	23°16'16	27°12'12	10°32'32	22°12'12	11°4'4	22°D47	22°12'12	8°17'17	n.a.
F 12	8 28 52	9°37'52	20°14'14	28°9'9	28°49'49	27°58'58	23°18'18	27°16'16	10°32'32	22°11'11	11°6'6	22°R47	22°9'9	8°23'23	n.a.
S 13	8 32 48	10°37'03	2°12'2	27°31'31	29°24'24	27°41'41	23°20'20	27°19'19	10°33'33	22°10'10	11°7'7	22°47'47	22°6'6	8°30'30	n.a.
S 14	8 36 45	11°36'12	13°49'49	26°58'58	0°3'0	27°23'23	23°22'22	27°23'23	10°34'34	22°9'9	11°9'9	22°45'45	22°3'3	8°37'37	n.a.
M15	8 40 41	12°35'20	25°41'41	26°30'30	0°38'38	27°4'4	23°25'25	27°26'26	10°34'34	22°8'8	11°10'10	22°41'41	22°0'0	8°43'43	n.a.
T 16	8 44 38	13°34'25	7°34'25	26°8'8	1°16'16	26°44'44	23°28'28	27°30'30	10°35'35	22°7'7	11°12'12	22°34'34	21°56'56	8°50'50	n.a.
W17	8 48 34	14°33'29	19°55'55	25°52'52	1°56'56	26°25'25	23°31'31	27°33'33	10°36'36	22°5'5	11°13'13	22°24'24	21°53'53	8°57'57	n.a.
T 18	8 52 31	15°32'30	2°21'21	25°42'42	2°37'37	26°4'4	23°34'34	27°36'36	10°37'37	22°4'4	11°15'15	22°13'13	21°50'50	9°3'3	n.a.
F 19	8 56 27	16°31'29	15°2'2	25°D37	3°19'19	25°44'44	23°37'37	27°39'39	10°38'38	22°3'3	11°16'16	21°59'59	21°47'47	9°10'10	n.a.
S 20	9 0 24	17°30'26	27°58'58	25°38'38	4°2'2	25°23'23	23°41'41	27°42'42	10°39'39	22°2'2	11°17'17	21°46'46	21°44'44	9°17'17	n.a.
S 21	9 4 21	18°29'20	11°11'21	25°44'44	4°45'45	25°1'1	23°44'44	27°45'45	10°40'40	22°0'0	11°19'19	21°34'34	21°41'41	9°23'23	n.a.
M22	9 8 17	19°28'13	24°7'7	25°55'55	5°30'30	24°39'39	23°48'48	27°48'48	10°41'41	21°59'59	11°20'20	21°24'24	21°37'37	9°30'30	n.a.
T 23	9 12 14	20°27'03	7°11'59	26°12'12	6°16'16	24°17'17	23°52'52	27°50'50	10°42'42	21°58'58	11°22'22	21°16'16	21°34'34	9°37'37	n.a.
W24	9 16 10	21°25'50	21°40'40	26°33'33	7°2'2	23°55'55	23°56'56	27°53'53	10°43'43	21°57'57	11°23'23	21°12'12	21°31'31	9°43'43	n.a.
T 25	9 20 7	22°24'35	5°18'29	26°59'59	7°50'50	23°33'33	24°1'1	27°55'55	10°45'45	21°55'55	11°24'24	21°10'10	21°28'28	9°50'50	n.a.
F 26	9 24 3	23°23'18	19°26'26	27°29'29	8°38'38	23°10'10	24°5'5	27°58'58	10°46'46	21°54'54	11°26'26	21°9'9	21°25'25	9°57'57	n.a.
S 27	9 28 0	24°21'59	3°11'31	28°4'4	9°26'26	22°47'47	24°10'10	28°0'0	10°47'47	21°52'52	11°27'27	21°9'9	21°21'21	10°3'3	n.a.
S 28	9 31 56	25°20'37	17°11'44	28°34'42	10°31'16	22°11'25	24°15'15	28°11'2	10°49'49	21°11'51	11°28'28	21°8'8	21°18'18	10°10'10	n.a.

Delta T = 11h07m56s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1664 BCE

MARCH 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
M 1	9 35 53	26♁19°12	2♃ 2	29♃25	11♃ 6	22°R 2	24♃20	28♁ 4	10♃50	21°R50	11♃30	21°R 5	21♃15	10♃17	n.a.
T 2	9 39 50	27°17'46	16°23	0♁11	11°57	21°Ω40	24°25	28° 7	10°52	21♁48	11°31	20♃59	21°12	10°23	n.a.
W 3	9 43 46	28°16'17	0♁42	1° 0	12°49	21°17	24°30	28° 8	10°53	21°47	11°32	20°50	21° 9	10°30	n.a.
T 4	9 47 43	29°14'46	14°55	1°52	13°41	20°55	24°36	28°10	10°55	21°45	11°33	20°39	21° 6	10°37	n.a.
F 5	9 51 39	0♁13°12	28°56	2°48	14°34	20°32	24°41	28°12	10°56	21°44	11°35	20°27	21° 2	10°43	n.a.
S 6	9 55 36	1°11'37	12♁40	3°47	15°27	20°11	24°47	28°14	10°58	21°42	11°36	20°16	20°59	10°50	n.a.
S 7	9 59 32	2° 9'59	26° 4	4°48	16°21	19°49	24°53	28°15	11° 0	21°41	11°37	20° 5	20°56	10°56	n.a.
M 8	10 3 29	3° 8'20	9♁ 6	5°52	17°16	19°27	24°59	28°17	11° 2	21°39	11°38	19°57	20°53	11° 3	n.a.
T 9	10 7 25	4° 6'39	21°46	6°59	18°11	19° 6	25° 5	28°18	11° 4	21°38	11°39	19°52	20°50	11°10	n.a.
W10	10 11 22	5° 4'56	4♁ 7	8° 8	19° 6	18°46	25°12	28°19	11° 5	21°36	11°41	19°49	20°47	11°16	n.a.
T 11	10 15 19	6° 3'11	16°13	9°20	20° 2	18°25	25°18	28°21	11° 7	21°35	11°42	19°D48	20°43	11°23	n.a.
F 12	10 19 15	7° 1'25	28° 8	10°34	20°59	18° 6	25°25	28°22	11° 9	21°33	11°43	19°48	20°40	11°30	n.a.
S 13	10 23 12	7°59'37	9♁57	11°50	21°55	17°46	25°32	28°23	11°11	21°32	11°44	19°R48	20°37	11°36	n.a.
S 14	10 27 8	8°57'47	21°46	13° 9	22°53	17°27	25°39	28°24	11°13	21°30	11°45	19°47	20°34	11°43	n.a.
M15	10 31 5	9°55'56	3♃41	14°30	23°51	17° 9	25°46	28°24	11°15	21°28	11°46	19°45	20°31	11°50	n.a.
T 16	10 35 1	10°54'03	15°46	15°52	24°49	16°52	25°53	28°25	11°18	21°27	11°47	19°40	20°27	11°56	n.a.
W17	10 38 58	11°52'09	28° 5	17°17	25°47	16°35	26° 0	28°26	11°20	21°25	11°48	19°32	20°24	12° 3	n.a.
T 18	10 42 54	12°50'13	10♁41	18°44	26°46	16°18	26° 8	28°26	11°22	21°24	11°49	19°23	20°21	12°10	n.a.
F 19	10 46 51	13°48'15	23°36	20°13	27°46	16° 3	26°15	28°27	11°24	21°22	11°50	19°12	20°18	12°16	n.a.
S 20	10 50 48	14°46'15	6♁49	21°44	28°45	15°48	26°23	28°27	11°27	21°20	11°51	19° 1	20°15	12°23	n.a.
S 21	10 54 44	15°44'14	20°20	23°16	29°45	15°33	26°31	28°27	11°29	21°19	11°52	18°51	20°12	12°30	n.a.
M22	10 58 41	16°42'11	4♁ 5	24°51	0♁45	15°20	26°39	28°27	11°31	21°17	11°53	18°42	20° 8	12°36	n.a.
T 23	11 2 37	17°40'06	18° 1	26°28	1°46	15° 7	26°47	28°R27	11°34	21°16	11°53	18°36	20° 5	12°43	n.a.
W24	11 6 34	18°37'59	2♃ 4	28° 6	2°47	14°55	26°55	28°27	11°36	21°14	11°54	18°33	20° 2	12°50	n.a.
T 25	11 10 30	19°35'51	16°12	29°46	3°48	14°44	27° 4	28°27	11°39	21°12	11°55	18°D32	19°59	12°56	n.a.
F 26	11 14 27	20°33'40	0♁22	1♁29	4°50	14°33	27°12	28°27	11°41	21°11	11°56	18°32	19°56	13° 3	n.a.
S 27	11 18 23	21°31'28	14°32	3°13	5°51	14°24	27°21	28°26	11°44	21° 9	11°57	18°R33	19°53	13°10	n.a.
S 28	11 22 20	22°29'14	28°40	4°59	6°53	14°15	27°30	28°26	11°46	21° 7	11°57	18°33	19°49	13°16	n.a.
M29	11 26 17	23°26'58	12♁46	6°47	7°56	14° 7	27°39	28°25	11°49	21° 6	11°58	18°31	19°46	13°23	n.a.
T 30	11 30 13	24°24'40	26°47	8°37	8°58	14° 0	27°47	28°25	11°52	21° 4	11°59	18°27	19°43	13°30	n.a.
W31	11 34 10	25♁22'20	10♁42	10♁29	10♁ 1	13°Ω53	27♁57	28♁24	11♁54	21♁ 3	12♁ 0	18♁22	19♁40	13♁36	n.a.

Delta T = 11h07m55s Julian Calendar 1 March 1664 BCE == Greg. Calendar 15 Feb. 1664 BCE
 The year -1663 astronomical counting style corresponds to year 1664 B.C.E historical counting style.

APRIL 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♂	♃	♄	♅	♆	♇	♁	♂	♆	♅	
T 1	11 38 6	26♁19°58	24♁28	12♁23	11♁ 4	13°R48	28♃ 6	28°R23	11♃57	21°R 1	12♃ 0	18°R14	19♃37	13♃43	n.a.
F 2	11 42 3	27°17'35	8♁ 3	14°19	12° 7	13°Ω43	28°15	28♁22	12° 0	20♁59	12° 1	18♃ 6	19°33	13°50	n.a.
S 3	11 45 59	28°15'10	21°24	16°16	13°11	13°39	28°24	28°21	12° 3	20°58	12° 1	17°57	19°30	13°56	n.a.
S 4	11 49 56	29°12'44	4♁29	18°16	14°14	13°36	28°34	28°20	12° 5	20°56	12° 2	17°50	19°27	14° 3	n.a.
M 5	11 53 52	0♁10'16	17°16	20°17	15°18	13°33	28°43	28°19	12° 8	20°55	12° 3	17°44	19°24	14°10	n.a.
T 6	11 57 49	1° 7'47	29°47	22°20	16°22	13°32	28°53	28°17	12°11	20°53	12° 3	17°40	19°21	14°16	n.a.
W 7	12 1 45	2° 5'17	12♁ 3	24°24	17°26	13°D31	29° 3	28°16	12°14	20°51	12° 4	17°D39	19°18	14°23	n.a.
T 8	12 5 42	3° 2'46	24° 6	26°30	18°31	13°31	29°13	28°15	12°17	20°50	12° 4	17°39	19°14	14°30	n.a.
F 9	12 9 39	4° 0'14	6♁ 1	28°37	19°36	13°32	29°23	28°13	12°20	20°48	12° 5	17°40	19°11	14°36	n.a.
S 10	12 13 35	4°57'41	17°51	0♁46	20°41	13°34	29°33	28°11	12°23	20°47	12° 5	17°41	19° 8	14°43	n.a.
S 11	12 17 32	5°55'06	29°41	2°56	21°46	13°36	29°43	28° 9	12°26	20°45	12° 5	17°43	19° 5	14°49	n.a.
M12	12 21 28	6°52'31	11♁37	5° 6	22°51	13°39	29°53	28° 8	12°29	20°43	12° 6	17°R43	19° 2	14°56	n.a.
T 13	12 25 25	7°49'55	23°43	7°17	23°56	13°43	0♁ 4	28° 6	12°32	20°42	12° 6	17°41	18°58	15° 3	n.a.
W14	12 29 21	8°47'18	6♁ 4	9°28	25° 2	13°47	0°14	28° 4	12°35	20°40	12° 6	17°38	18°55	15° 9	n.a.
T 15	12 33 18	9°44'41	18°44	11°40	26° 8	13°53	0°25	28° 2	12°39	20°39	12° 7	17°34	18°52	15°16	n.a.
F 16	12 37 14	10°42'02	1♁45	13°51	27°13	13°59	0°35	27°59	12°42	20°37	12° 7	17°28	18°49	15°23	n.a.
S 17	12 41 11	11°39'22	15° 9	16° 2	28°19	14° 6	0°46	27°57	12°45	20°36	12° 7	17°23	18°46	15°29	n.a.
S 18	12 45 8	12°36'42	28°55	18°12	29°26	14°13	0°57	27°55	12°48	20°34	12° 8	17°17	18°43	15°36	n.a.
M19	12 49 4	13°34'00	13♁ 0	20°21	0♁32	14°21	1° 8	27°52	12°51	20°33	12° 8	17°13	18°39	15°43	n.a.
T 20	12 53 1	14°31'18	27°20	22°29	1°38	14°30	1°19	27°50	12°55	20°31	12° 8	17°10	18°36	15°49	n.a.
W21	12 56 57	15°28'35	11♁49	24°35	2°45	14°40	1°30	27°47	12°58	20°30	12° 8	17°D 9	18°33	15°56	n.a.
T 22	13 0 54	16°25'50	26°22	26°40	3°52	14°50	1°41	27°44	13° 1	20°29	12° 8	17° 9	18°30	16° 3	n.a.
F 23	13 4 50	17°23'05	10♁53	28°43	4°59	15° 1	1°52	27°42	13° 5	20°27	12° 8	17°10	18°27	16° 9	n.a.
S 24	13 8 47	18°20'19	25°18	0♁43	6° 6	15°12	2° 3	27°39	13° 8	20°26	12° 9	17°11	18°24	16°16	n.a.
S 25	13 12 43	19°17'31	9♁34	2°42	7°13	15°24	2°14	27°36	13°11	20°24	12° 9	17°13	18°20	16°23	n.a.
M26	13 16 40	20°14'43	23°39	4°39	8°20	15°37	2°26	27°33	13°15	20°23	12° 9	17°R13	18°17	16°29	n.a.
T 27	13 20 37	21°11'53	7♁31	6°33	9°27	15°50	2°37	27°30	13°18	20°22	12°R 9	17°12	18°14	16°36	n.a.
W28	13 24 33	22° 9'03	21° 9	8°25	10°35	16° 4	2°49	27°27	13°21	20°20	12° 9	17°10	18°11	16°43	n.a.
T 29	13 28 30	23° 6'11	4♁34	10°14	11°42	16°19	3° 0	27°23	13°25	20°19	12° 9	17° 7	18° 8	16°49	n.a.
F 30	13 32 26	24♁ 3'19	17♁45	12♁ 1	12♁50	16°Ω34	3♁12	27♁20	13♁28	20♁18	12♁ 9	17♁ 4	18♁ 4	16♁56	n.a.

Delta T = 11h07m53s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [7.2.2007]

SWISS EPHEMERIS for the year 1664 BCE

MAY 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
S 1	13 36 23	25°0'25"	0°42'	13♈46	13♈58	16♉50	3♊24	27°R17	13♋32	20°R16	12°R 8	17°R 0	18♌ 1	17♌ 3	n.a.									
S 2	13 40 19	25°57'32"	13°25'	15°28'	15° 6'	17° 6'	3°36'	27♌13	13°35'	20♌15	12♌ 8	16♌57	17°58'	17° 9'	n.a.									
M 3	13 44 16	26°54'37"	25°55'	17° 7'	16°14'	17°23'	3°47'	27°10'	13°39'	20°14'	12° 8'	16°55'	17°55'	17°16'	n.a.									
T 4	13 48 12	27°51'42"	8♌13	18°44'	17°22'	17°40'	3°59'	27° 7'	13°42'	20°13'	12° 8'	16°54'	17°52'	17°23'	n.a.									
W 5	13 52 9	28°48'47"	20°20'	20°19'	18°30'	17°58'	4°11'	27° 3'	13°46'	20°12'	12° 8'	16°D54	17°49'	17°29'	n.a.									
T 6	13 56 6	29°45'51"	2♌18	21°51'	19°38'	18°16'	4°23'	26°59'	13°49'	20°10'	12° 8'	16°55'	17°45'	17°36'	n.a.									
F 7	14 0 2	0♌42'56"	14°10'	23°20'	20°47'	18°35'	4°35'	26°56'	13°53'	20° 9'	12° 7'	16°56'	17°42'	17°43'	n.a.									
S 8	14 3 59	1°40'00"	25°59'	24°47'	21°55'	18°54'	4°47'	26°52'	13°56'	20° 8'	12° 7'	16°57'	17°39'	17°49'	n.a.									
S 9	14 7 55	2°37'04"	7♌50	26°11'	23° 4'	19°14'	4°59'	26°48'	14° 0'	20° 7'	12° 7'	16°58'	17°36'	17°56'	n.a.									
M10	14 11 52	3°34'07"	19°45'	27°32'	24°13'	19°34'	5°12'	26°44'	14° 3'	20° 6'	12° 7'	16°59'	17°33'	18° 3'	n.a.									
T 11	14 15 48	4°31'11"	1♌51	28°51'	25°21'	19°54'	5°24'	26°40'	14° 7'	20° 5'	12° 6'	17°R 0	17°29'	18° 9'	n.a.									
W12	14 19 45	5°28'15"	14°11'	0♊ 7	26°30'	20°16'	5°36'	26°36'	14°11'	20° 4'	12° 6'	17° 0'	17°26'	18°16'	n.a.									
T 13	14 23 41	6°25'19"	26°50'	1°20'	27°39'	20°37'	5°49'	26°32'	14°14'	20° 3'	12° 6'	16°59'	17°23'	18°23'	n.a.									
F 14	14 27 38	7°22'23"	9♌51	2°31'	28°48'	20°59'	6° 1'	26°28'	14°18'	20° 2'	12° 5'	16°58'	17°20'	18°29'	n.a.									
S 15	14 31 35	8°19'27"	23°17'	3°38'	29°58'	21°21'	6°14'	26°24'	14°21'	20° 1'	12° 5'	16°57'	17°17'	18°36'	n.a.									
S 16	14 35 31	9°16'32"	7♌ 8	4°42'	1♌ 7	21°44'	6°26'	26°20'	14°25'	20° 0'	12° 4'	16°56'	17°14'	18°43'	n.a.									
M17	14 39 28	10°13'36"	21°23'	5°44'	2°16'	22° 8'	6°39'	26°16'	14°29'	19°59'	12° 4'	16°55'	17°10'	18°49'	n.a.									
T 18	14 43 24	11°10'41"	5♌58	6°42'	3°26'	22°31'	6°51'	26°12'	14°32'	19°58'	12° 3'	16°55'	17° 7'	18°56'	n.a.									
W19	14 47 21	12° 7'45"	20°47'	7°37'	4°35'	22°55'	7° 4'	26° 8'	14°36'	19°57'	12° 3'	16°D55	17° 4'	19° 3'	n.a.									
T 20	14 51 17	13° 4'50"	5♊43	8°28'	5°45'	23°20'	7°16'	26° 3'	14°39'	19°57'	12° 2'	16°55'	17° 1'	19° 9'	n.a.									
F 21	14 55 14	14° 1'55"	20°37'	9°16'	6°54'	23°45'	7°29'	25°59'	14°43'	19°56'	12° 2'	16°55'	16°58'	19°16'	n.a.									
S 22	14 59 10	14°58'59"	5♌23	10° 0'	8° 4'	24°10'	7°42'	25°55'	14°47'	19°55'	12° 1'	16°55'	16°55'	19°23'	n.a.									
S 23	15 3 7	15°56'04"	19°55'	10°41'	9°14'	24°35'	7°55'	25°51'	14°50'	19°54'	12° 1'	16°56'	16°51'	19°29'	n.a.									
M24	15 7 4	16°53'08"	4♌ 8	11°18'	10°24'	25° 1'	8° 7'	25°46'	14°54'	19°53'	12° 0'	16°R56	16°48'	19°36'	n.a.									
T 25	15 11 0	17°50'13"	18° 1'	11°51'	11°34'	25°28'	8°20'	25°42'	14°58'	19°53'	11°59'	16°D56	16°45'	19°43'	n.a.									
W26	15 14 57	18°47'17"	1♌33	12°19'	12°44'	25°54'	8°33'	25°38'	15° 1'	19°52'	11°59'	16°56'	16°42'	19°49'	n.a.									
T 27	15 18 53	19°44'21"	14°45'	12°43'	13°54'	26°21'	8°46'	25°33'	15° 5'	19°51'	11°58'	16°56'	16°39'	19°56'	n.a.									
F 28	15 22 50	20°41'26"	27°39'	13° 3'	15° 4'	26°49'	8°59'	25°29'	15° 8'	19°51'	11°57'	16°56'	16°35'	20° 3'	n.a.									
S 29	15 26 46	21°38'30"	10♌18	13°19'	16°14'	27°16'	9°12'	25°24'	15°12'	19°50'	11°57'	16°57'	16°32'	20° 9'	n.a.									
S 30	15 30 43	22°35'35"	22°43'	13°29'	17°24'	27°44'	9°25'	25°20'	15°16'	19°50'	11°56'	16°57'	16°29'	20°16'	n.a.									
M31	15 34 39	23°32'40"	4♌57	13♊36	18♌35	28♌13	9♊38	25♌15	15♌19	19♌49	11♌55	16♌57	16♌26	20♌23	n.a.									

Delta T = 11h07m51s Julian Calendar 1 May 1664 BCE == Greg. Calendar 17 Apr. 1664 BCE

The year -1663 astronomical counting style corresponds to year 1664 B.C.E historical counting style.

JUNE 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	
T 1	15 38 36	24♌29'45"	17♌ 1	13°R37	19♌45	28♌41	9♊51	25°R11	15♌23	19°R49	11°R54	16°R58	16♌23	20♌29	n.a.									
W 2	15 42 33	25°26'51"	28°59'	13♊33	20°56'	29°10'	10° 4'	25♌ 7	15°26'	19♌48	11♌53	16♌57	16°20'	20°36'	n.a.									
T 3	15 46 29	26°23'57"	10♌52	13°25'	22° 6'	29°39'	10°17'	25° 2'	15°30'	19°48'	11°53'	16°57'	16°16'	20°43'	n.a.									
F 4	15 50 26	27°21'04"	22°42'	13°12'	23°17'	0♌ 9	10°30'	24°58'	15°33'	19°48'	11°52'	16°56'	16°13'	20°49'	n.a.									
S 5	15 54 22	28°18'12"	4♌31	12°54'	24°28'	0°39'	10°43'	24°53'	15°37'	19°47'	11°51'	16°54'	16°10'	20°56'	n.a.									
S 6	15 58 19	29°15'21"	16°23'	12°32'	25°39'	1° 9'	10°56'	24°49'	15°40'	19°47'	11°50'	16°52'	16° 7'	21° 3'	n.a.									
M 7	16 2 15	0♊12'31"	28°20'	12° 6'	26°49'	1°39'	11°10'	24°45'	15°44'	19°47'	11°49'	16°51'	16° 4'	21° 9'	n.a.									
T 8	16 6 12	1° 9'41"	10♌26	11°35'	28° 0'	2° 9'	11°23'	24°40'	15°48'	19°46'	11°48'	16°49'	16° 1'	21°16'	n.a.									
W 9	16 10 8	2° 6'52"	22°45'	11° 1'	29°11'	2°40'	11°36'	24°36'	15°51'	19°46'	11°47'	16°48'	15°57'	21°23'	n.a.									
T 10	16 14 5	3° 4'05"	5♌21	10°25'	0♌22	3°11'	11°49'	24°31'	15°55'	19°46'	11°46'	16°D48	15°54'	21°29'	n.a.									
F 11	16 18 2	4° 1'18"	18°17'	9°45'	1°34'	3°43'	12° 2'	24°27'	15°58'	19°46'	11°45'	16°49'	15°51'	21°36'	n.a.									
S 12	16 21 58	4°58'33"	1♌38	9° 4'	2°45'	4°15'	12°16'	24°23'	16° 2'	19°45'	11°44'	16°50'	15°48'	21°43'	n.a.									
S 13	16 25 55	5°55'48"	15°24'	8°21'	3°56'	4°46'	12°29'	24°18'	16° 5'	19°45'	11°43'	16°51'	15°45'	21°49'	n.a.									
M14	16 29 51	6°53'05"	29°37'	7°38'	5° 7'	5°19'	12°42'	24°14'	16° 8'	19°45'	11°42'	16°52'	15°41'	21°56'	n.a.									
T 15	16 33 48	7°50'23"	14♌14	6°56'	6°19'	5°51'	12°55'	24°10'	16°12'	19°45'	11°41'	16°R53	15°38'	22° 3'	n.a.									
W16	16 37 44	8°47'42"	29°11'	6°14'	7°30'	6°24'	13° 9'	24° 6'	16°15'	19°D45	11°40'	16°52'	15°35'	22°10'	n.a.									
T 17	16 41 41	9°45'03"	14♊20	5°34'	8°42'	6°56'	13°22'	24° 1'	16°19'	19°45'	11°39'	16°51'	15°32'	22°16'	n.a.									
F 18	16 45 37	10°42'24"	29°31'	4°57'	9°53'	7°30'	13°35'	23°57'	16°22'	19°45'	11°38'	16°48'	15°29'	22°23'	n.a.									
S 19	16 49 34	11°39'46"	14♌36	4°23'	11° 5'	8° 3'	13°48'	23°53'	16°25'	19°45'	11°37'	16°45'	15°26'	22°30'	n.a.									
S 20	16 53 31	12°37'10"	29°24'	3°53'	12°17'	8°37'	14° 2'	23°49'	16°29'	19°46'	11°36'	16°42'	15°22'	22°36'	n.a.									
M21	16 57 27	13°34'34"	13♌51	3°27'	13°29'	9°10'	14°15'	23°45'	16°32'	19°46'	11°35'	16°39'	15°19'	22°43'	n.a.									
T 22	17 1 24	14°31'58"	27°51'	3° 7'	14°40'	9°44'	14°28'	23°41'	16°35'	19°46'	11°34'	16°37'	15°16'	22°50'	n.a.									
W23	17 5 20	15°29'24"	11♌25	2°52'	15°52'	10°19'	14°42'	23°37'	16°39'	19°46'	11°33'	16°D36	15°13'	22°56'	n.a.									
T 24	17 9 17	16°26'51"	24°34'	2°43'	17° 4'	10°53'	14°55'	23°33'	16°42'	19°46'	11°32'	16°36'	15°10'	23° 3'	n.a.									
F 25	17 13 13	17°24'18"	7♌20	2°D40	18°16'	11°28'	15° 8'	23°29'	16°45'	19°47'	11°30'	16°37'	15° 7'	23°10'	n.a.									
S 26	17 17 10	18°21'46"	19°48'	2°44'	19°28'	12° 3'	15°21'	23°25'	16°48'	19°47'	11°29'	16°39'	15° 3'	23°16'	n.a.									
S 27	17 21 6	19°19'16"	2♌ 2	2°55'	20°40'	12°38'	15°35'	23°22'	16°52'	19°47'	11°28'	16°40'	15° 0'	23°23'</										

SWISS EPHEMERIS for the year 1664 BCE

JULY 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
T 1	17 36 53	23II 9°26'	19♌41	4II45	25♋29	15♎0	16II28	23°R 7	17♋4	19♎49	11°R23	16°R35	14♌47	23♌50	n.a.
F 2	17 40 49	24° 7'03"	1♋30	5°30	26°42	15°36	16°41	23♌4	17° 7	19°49	11♋22	16♋30	14°44	23°56	n.a.
S 3	17 44 46	25° 4'40"	13°23	6°21	27°54	16°12	16°54	23° 0	17°10	19°50	11°21	16°23	14°41	24° 3	n.a.
S 4	17 48 42	26° 2'19"	25°19	7°19	29° 7	16°49	17° 7	22°57	17°13	19°50	11°20	16°16	14°38	24°10	n.a.
M 5	17 52 39	27° 0'00"	7♌21	8°23	0II19	17°25	17°20	22°54	17°16	19°51	11°18	16° 9	14°35	24°16	n.a.
T 6	17 56 36	27°57'42"	19°32	9°33	1°32	18° 2	17°34	22°50	17°19	19°52	11°17	16° 2	14°32	24°23	n.a.
W 7	18 0 32	28°55'26"	1♌53	10°49	2°45	18°39	17°47	22°47	17°22	19°52	11°16	15°57	14°28	24°30	n.a.
T 8	18 4 29	29°53'12"	14°29	12°11	3°57	19°16	18° 0	22°44	17°25	19°53	11°15	15°54	14°25	24°36	n.a.
F 9	18 8 25	0♍51'00"	27°22	13°37	5°10	19°53	18°13	22°41	17°28	19°54	11°13	15°D53	14°22	24°43	n.a.
S 10	18 12 22	1°48'50"	10♌36	15° 9	6°23	20°31	18°26	22°38	17°31	19°55	11°12	15°53	14°19	24°50	n.a.
S 11	18 16 18	2°46'41"	24°13	16°45	7°36	21° 8	18°39	22°35	17°33	19°55	11°11	15°54	14°16	24°56	n.a.
M12	18 20 15	3°44'35"	8♌16	18°25	8°49	21°46	18°52	22°33	17°36	19°56	11° 9	15°55	14°13	25° 3	n.a.
T 13	18 24 11	4°42'31"	22°44	20° 9	10° 2	22°24	19° 5	22°30	17°39	19°57	11° 8	15°R55	14° 9	25°10	n.a.
W14	18 28 8	5°40'28"	7II34	21°56	11°15	23° 2	19°18	22°27	17°42	19°58	11° 7	15°54	14° 6	25°16	n.a.
T 15	18 32 5	6°38'28"	22°40	23°46	12°28	23°40	19°31	22°25	17°44	19°59	11° 6	15°50	14° 3	25°23	n.a.
F 16	18 36 1	7°36'30"	7♌54	25°37	13°41	24°19	19°44	22°22	17°47	20° 0	11° 4	15°44	14° 0	25°30	n.a.
S 17	18 39 58	8°34'33"	23° 6	27°31	14°55	24°57	19°57	22°20	17°50	20° 1	11° 3	15°36	13°57	25°37	n.a.
S 18	18 43 54	9°32'38"	8♌4	29°26	16° 8	25°36	20°10	22°18	17°52	20° 2	11° 2	15°28	13°53	25°43	n.a.
M19	18 47 51	10°30'45"	22°41	1♍23	17°21	26°15	20°23	22°15	17°55	20° 3	11° 0	15°20	13°50	25°50	n.a.
T 20	18 51 47	11°28'53"	6♎51	3°20	18°35	26°54	20°36	22°13	17°57	20° 4	10°59	15°14	13°47	25°57	n.a.
W21	18 55 44	12°27'03"	20°31	5°17	19°48	27°33	20°49	22°11	18° 0	20° 5	10°58	15°10	13°44	26° 3	n.a.
T 22	18 59 40	13°25'14"	3♌43	7°15	21° 2	28°12	21° 1	22° 9	18° 2	20° 6	10°57	15° 7	13°41	26°10	n.a.
F 23	19 3 37	14°23'27"	16°29	9°12	22°15	28°52	21°14	22° 7	18° 4	20° 7	10°55	15°D 7	13°38	26°17	n.a.
S 24	19 7 34	15°21'42"	28°54	11°10	23°29	29°31	21°27	22° 6	18° 7	20° 8	10°54	15° 7	13°34	26°23	n.a.
S 25	19 11 30	16°19'58"	11II 2	13° 6	24°43	0♏11	21°39	22° 4	18° 9	20° 9	10°53	15°R 8	13°31	26°30	n.a.
M26	19 15 27	17°18'16"	23° 0	15° 3	25°56	0°51	21°52	22° 2	18°11	20°11	10°51	15° 8	13°28	26°37	n.a.
T 27	19 19 23	18°16'36"	4♌51	16°58	27°10	1°31	22° 5	22° 1	18°13	20°12	10°50	15° 6	13°25	26°43	n.a.
W28	19 23 20	19°14'58"	16°40	18°53	28°24	2°11	22°17	21°59	18°16	20°13	10°49	15° 1	13°22	26°50	n.a.
T 29	19 27 16	20°13'22"	28°29	20°46	29°38	2°51	22°30	21°58	18°18	20°15	10°47	14°54	13°19	26°57	n.a.
F 30	19 31 13	21°11'47"	10♋22	22°39	0♍52	3°32	22°42	21°57	18°20	20°16	10°46	14°45	13°15	27° 3	n.a.
S 31	19 35 9	22°10'15"	22♋20	24♍31	2♍6	4♌12	22II54	21II56	18♋22	20II17	10♋45	14♋33	13♋12	27♌10	n.a.

Delta T = 11h07m47s Julian Calendar 1 July 1664 BCE == Greg. Calendar 17 June 1664 BCE
 The year -1663 astronomical counting style corresponds to year 1664 B.C.E historical counting style.

AUGUST 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♅	♁	♄	♁	♁	♁	♁	♁
S 1	19 39 6	23♌8'45"	4♌25	26♌22	3♌20	4♌53	23II 7	21°R55	18♋24	20♎19	10°R44	14°R21	13♋9	27♌17	n.a.
M 2	19 43 3	24° 7'16"	16°37	28°11	4°34	5°34	23°19	21II54	18°26	20°20	10♋42	14♋8	13° 6	27°23	n.a.
T 3	19 46 59	25° 5'50"	28°59	0♌0	5°48	6°14	23°31	21°53	18°28	20°22	10°41	13°57	13° 3	27°30	n.a.
W 4	19 50 56	26° 4'26"	11♌30	1°48	7° 2	6°55	23°43	21°52	18°30	20°23	10°40	13°47	12°59	27°37	n.a.
T 5	19 54 52	27° 3'04"	24°13	3°34	8°16	7°37	23°55	21°51	18°31	20°25	10°39	13°41	12°56	27°44	n.a.
F 6	19 58 49	28° 1'45"	7♌9	5°20	9°30	8°18	24° 8	21°51	18°33	20°26	10°37	13°37	12°53	27°50	n.a.
S 7	20 2 45	29° 0'28"	20°22	7° 4	10°45	8°59	24°20	21°50	18°35	20°28	10°36	13°35	12°50	27°57	n.a.
S 8	20 6 42	29°59'14"	3♌53	8°47	11°59	9°41	24°31	21°50	18°37	20°29	10°35	13°D35	12°47	28° 4	n.a.
M 9	20 10 38	0♎58'02"	17°44	10°30	13°13	10°22	24°43	21°50	18°38	20°31	10°34	13°R35	12°44	28°10	n.a.
T 10	20 14 35	1°56'52"	1II57	12°11	14°28	11° 4	24°55	21°50	18°40	20°32	10°33	13°34	12°40	28°17	n.a.
W11	20 18 32	2°55'45"	16°30	13°52	15°42	11°46	25° 7	21°D50	18°41	20°34	10°31	13°31	12°37	28°24	n.a.
T 12	20 22 28	3°54'41"	1♍21	15°31	16°57	12°28	25°19	21°50	18°43	20°36	10°30	13°25	12°34	28°30	n.a.
F 13	20 26 25	4°53'39"	16°22	17° 9	18°11	13°10	25°30	21°50	18°44	20°37	10°29	13°17	12°31	28°37	n.a.
S 14	20 30 21	5°52'39"	1♌24	18°47	19°26	13°52	25°42	21°50	18°46	20°39	10°28	13° 6	12°28	28°44	n.a.
S 15	20 34 18	6°51'41"	16°18	20°24	20°40	14°34	25°53	21°50	18°47	20°41	10°27	12°54	12°25	28°50	n.a.
M16	20 38 14	7°50'45"	0♎55	21°59	21°55	15°16	26° 5	21°51	18°48	20°43	10°26	12°43	12°21	28°57	n.a.
T 17	20 42 11	8°49'52"	15° 7	23°34	23°10	15°59	26°16	21°51	18°50	20°44	10°25	12°34	12°18	29° 4	n.a.
W18	20 46 7	9°49'00"	28°51	25° 8	24°24	16°41	26°28	21°52	18°51	20°46	10°23	12°26	12°15	29°10	n.a.
T 19	20 50 4	10°48'10"	12♌7	26°41	25°39	17°24	26°39	21°53	18°52	20°48	10°22	12°22	12°12	29°17	n.a.
F 20	20 54 1	11°47'22"	24°56	28°13	26°54	18° 7	26°50	21°53	18°53	20°50	10°21	12°20	12° 9	29°24	n.a.
S 21	20 57 57	12°46'36"	7II23	29°44	28° 9	18°50	27° 1	21°54	18°54	20°52	10°20	12°19	12° 5	29°31	n.a.
S 22	21 1 54	13°45'53"	19°33	1♎14	29°24	19°32	27°12	21°55	18°55	20°53	10°19	12°19	12° 2	29°37	n.a.
M23	21 5 50	14°45'11"	1♌30	2°44	0♌39	20°15	27°23	21°57	18°56	20°55	10°18	12°18	11°59	29°44	n.a.
T 24	21 9 47	15°44'31"	13°20	4°13	1°54	20°59	27°34	21°58	18°57	20°57	10°17	12°16	11°56	29°51	n.a.
W25	21 13 43	16°43'53"	25° 9	5°40	3° 8	21°42	27°44	21°59	18°58	20°59	10°16	12°11	11°53	29°57	n.a.
T 26	21 17 40	17°43'17"	7♋1	7° 7	4°23	22°25	27°55	22° 1	18°58	21° 1	10°15	12° 3	11°50	0♌4	n.a.
F 27	21 21 36	18°42'43"	18°58	8°33	5°38	23° 9	28° 5	22° 2	18°59	21° 3	10°14	11°53	11°46	0°11	n.a.
S 28	21 25 33	19°42'11"	1♌4	9°58	6°54	23°52	28°16	22° 4	19° 0	21° 5	10°13	11°41	11°43	0°17	n.a.
S 29	21 29 30	20°41'42"	13°20	11°22	8° 9	24°36	28°26	22° 5	19° 0	21° 7	10°12	11°27	11°40	0°24	n.a.
M30	21 33 26	21°41'14"	25°46	12°45	9°24	25°19	28°37	22° 7	19° 1	21° 9	10°11	11°13	11°37	0°31	n.a.
T 31	21 37 23	22♌40'48"	8♌24	14♎7	10♌39	26♌3	28II47	22II9	19♋2	21II11	10♋10	11♋1	11♋34	0♌37	n.a.

Delta T = 11h07m45s Julian Calendar created from Swiss Ephemeris, Copyright Astrodiens AG [7.2.2007]

SWISS EPHEMERIS for the year 1664 BCE

SEPTEMBER 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	21 41 19	23 ^h 40'25"	21 ^h 12'	15 ^m 28"	11 ^h 54'	26 ^h 47'	28 ^h 57'	22 ^h 11'	19 ^h 8'	21 ^h 13'	10 ^h R10	10 ^h R50	11 ^h 31'	0 ^h 44'	n.a.		
F 2	21 45 16	24°40'04"	4 ^h 11'	16°48'	13° 9'	27°31'	29° 7'	22°13'	19° 2'	21°15'	10 ^h 3 9	10 ^h 843	11°27'	0°51'	n.a.		
T 3	21 49 12	25°39'45"	17°22'	18° 7'	14°24'	28°14'	29°17'	22°15'	19° 3'	21°17'	10° 8	10°38'	11°24'	0°57'	n.a.		
S 4	21 53 9	26°39'29"	0 ^h 43'	19°24'	15°40'	28°58'	29°26'	22°18'	19° 3'	21°19'	10° 7	10°36'	11°21'	1° 4'	n.a.		
S 5	21 57 5	27°39'15"	14°18'	20°40'	16°55'	29°43'	29°36'	22°20'	19° 3'	21°21'	10° 6	10°D36	11°18'	1°11'	n.a.		
M 6	22 1 2	28°39'04"	28° 6'	21°55'	18°10'	0 ^h 27'	29°46'	22°23'	19° 3'	21°23'	10° 5	10°R36	11°15'	1°18'	n.a.		
T 7	22 4 59	29°38'55"	12 ^h 11'	23° 8'	19°25'	1°11'	29°55'	22°25'	19° 4'	21°26'	10° 5	10°35'	11°11'	1°24'	n.a.		
W 8	22 8 55	0 ^h 38'49"	26°25'	24°19'	20°41'	1°55'	0 ^h 5	22°28'	19° 4'	21°28'	10° 4	10°33'	11° 8'	1°31'	n.a.		
T 9	22 12 52	1°38'45"	10 ^h 53'	25°29'	21°56'	2°40'	0°14'	22°31'	19°R 4	21°30'	10° 3	10°28'	11° 5'	1°38'	n.a.		
F 10	22 16 48	2°38'44"	25°30'	26°36'	23°12'	3°24'	0°23'	22°33'	19° 4'	21°32'	10° 2	10°21'	11° 2'	1°44'	n.a.		
S 11	22 20 45	3°38'44"	10 ^h 9'	27°42'	24°27'	4° 9'	0°32'	22°36'	19° 4'	21°34'	10° 2	10°11'	10°59'	1°51'	n.a.		
S 12	22 24 41	4°38'47"	24°43'	28°45'	25°42'	4°53'	0°41'	22°39'	19° 3'	21°36'	10° 1	10° 0	10°56'	1°58'	n.a.		
M13	22 28 38	5°38'52"	9 ^h 4	29°45'	26°58'	5°38'	0°50'	22°43'	19° 3'	21°39'	10° 1	9°50'	10°52'	2° 4'	n.a.		
T 14	22 32 34	6°38'59"	23° 7'	0 ^h 42'	28°13'	6°23'	0°58'	22°46'	19° 3'	21°41'	10° 0	9°41'	10°49'	2°11'	n.a.		
W15	22 36 31	7°39'08"	6 ^h 46'	1°36'	29°29'	7° 8'	1° 7'	22°49'	19° 3'	21°43'	9°59'	9°34'	10°46'	2°18'	n.a.		
T 16	22 40 28	8°39'18"	20° 1'	2°27'	0 ^h 44'	7°53'	1°15'	22°52'	19° 2'	21°45'	9°59'	9°30'	10°43'	2°25'	n.a.		
F 17	22 44 24	9°39'31"	2 ^h 52'	3°13'	2° 0'	8°37'	1°24'	22°56'	19° 2'	21°47'	9°58'	9°28'	10°40'	2°31'	n.a.		
S 18	22 48 21	10°39'45"	15°21'	3°55'	3°15'	9°22'	1°32'	22°59'	19° 2'	21°50'	9°58'	9°D28	10°36'	2°38'	n.a.		
S 19	22 52 17	11°40'01"	27°32'	4°32'	4°31'	10° 8'	1°40'	23° 3'	19° 1'	21°52'	9°57'	9°29'	10°33'	2°45'	n.a.		
M20	22 56 14	12°40'18"	9 ^h 32'	5° 4'	5°46'	10°53'	1°48'	23° 7'	19° 0'	21°54'	9°57'	9°R29	10°30'	2°51'	n.a.		
T 21	23 0 10	13°40'38"	21°24'	5°29'	7° 2'	11°38'	1°55'	23°11'	19° 0'	21°56'	9°56'	9°29'	10°27'	2°58'	n.a.		
W22	23 4 7	14°40'59"	3 ^h 14'	5°48'	8°17'	12°23'	2° 3'	23°15'	18°59'	21°58'	9°56'	9°27'	10°24'	3° 5'	n.a.		
T 23	23 8 3	15°41'21"	15° 7'	5°59'	9°33'	13° 8'	2°11'	23°19'	18°58'	22° 1'	9°55'	9°22'	10°21'	3°11'	n.a.		
F 24	23 12 0	16°41'46"	27° 8'	6°R 2	10°49'	13°54'	2°18'	23°23'	18°58'	22° 3'	9°55'	9°16'	10°17'	3°18'	n.a.		
S 25	23 15 57	17°42'12"	9 ^h 19'	5°57'	12° 4'	14°39'	2°25'	23°27'	18°57'	22° 5'	9°55'	9° 8'	10°14'	3°25'	n.a.		
S 26	23 19 53	18°42'39"	21°44'	5°42'	13°20'	15°25'	2°32'	23°31'	18°56'	22° 7'	9°54'	8°58'	10°11'	3°31'	n.a.		
M27	23 23 50	19°43'08"	4 ^h 24'	5°17'	14°35'	16°10'	2°39'	23°35'	18°55'	22°10'	9°54'	8°49'	10° 8'	3°38'	n.a.		
T 28	23 27 46	20°43'39"	17°20'	4°43'	15°51'	16°56'	2°46'	23°40'	18°54'	22°12'	9°54'	8°40'	10° 5'	3°45'	n.a.		
W29	23 31 43	21°44'11"	0 ^h 29'	3°59'	17° 6'	17°41'	2°53'	23°44'	18°53'	22°14'	9°54'	8°33'	10° 2'	3°52'	n.a.		
T 30	23 35 39	22 ^h 44'45"	13 ^h 51'	3 ^h 5	18 ^h 22'	18 ^h 27'	2 ^h 59'	23 ^h 49'	18 ^h 52'	22 ^h 16'	9 ^h 53'	8 ^h 28'	9 ^h 58'	3 ^h 58'	n.a.		

Delta T = 11h07m43s Julian Calendar 1 Sept. 1664 BCE == Greg. Calendar 18 Aug. 1664 BCE
 The year -1663 astronomical counting style corresponds to year 1664 B.C.E historical counting style.

OCTOBER 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
F 1	23 39 36	23 ^h 45'21"	27 ^h 25'	2°R 2	19 ^h 38'	19 ^h 12'	3 ^h 5	23 ^h 53'	18°R51	22 ^h 19'	9°R53	8°R26	9°R55	4 ^h 5	n.a.		
S 2	23 43 32	24°45'59"	11 ^h 8'	0 ^h 52'	20°53'	19°58'	3°12'	23°58'	18°R50	22°21'	9°R53	8°D25	9°52'	4°12'	n.a.		
S 3	23 47 29	25°46'39"	24°59'	29 ^h 36'	22° 9'	20°44'	3°18'	24° 3'	18°48'	22°23'	9°53'	8°R26	9°49'	4°18'	n.a.		
M 4	23 51 26	26°47'21"	8 ^h 57'	28°16'	23°25'	21°30'	3°24'	24° 7'	18°47'	22°25'	9°53'	8°27'	9°46'	4°25'	n.a.		
T 5	23 55 22	27°48'05"	23° 2'	26°55'	24°40'	22°15'	3°29'	24°12'	18°46'	22°28'	9°53'	8°R28	9°42'	4°32'	n.a.		
W 6	23 59 19	28°48'50"	7 ^h 50'	25°36'	25°56'	23° 1'	3°35'	24°17'	18°44'	22°30'	9°53'	8°28'	9°39'	4°38'	n.a.		
T 7	0 3 15	29°49'38"	21°23'	24°20'	27°12'	23°47'	3°40'	24°22'	18°43'	22°32'	9°52'	8°26'	9°36'	4°45'	n.a.		
F 8	0 7 12	0 ^h 50'27"	5 ^h 36'	23°12'	28°27'	24°33'	3°45'	24°27'	18°42'	22°34'	9°D52	8°22'	9°33'	4°52'	n.a.		
S 9	0 11 8	1°51'18"	19°47'	22°12'	29°43'	25°19'	3°50'	24°33'	18°40'	22°37'	9°52'	8°17'	9°30'	4°59'	n.a.		
S 10	0 15 5	2°52'10"	3 ^h 52'	21°22'	0 ^h 59'	26° 5'	3°55'	24°38'	18°39'	22°39'	9°52'	8°12'	9°27'	5° 5'	n.a.		
M11	0 19 1	3°53'04"	17°46'	20°43'	2°14'	26°51'	4° 0'	24°43'	18°37'	22°41'	9°53'	8° 6'	9°23'	5°12'	n.a.		
T 12	0 22 58	4°53'59"	1 ^h 26'	20°15'	3°30'	27°37'	4° 5'	24°48'	18°35'	22°43'	9°53'	8° 1'	9°20'	5°19'	n.a.		
W13	0 26 55	5°54'56"	14°49'	20° 0'	4°45'	28°24'	4° 9'	24°54'	18°34'	22°46'	9°53'	7°57'	9°17'	5°25'	n.a.		
T 14	0 30 51	6°55'54"	27°53'	19°D56	6° 1'	29°10'	4°13'	24°59'	18°32'	22°48'	9°53'	7°55'	9°14'	5°32'	n.a.		
F 15	0 34 48	7°56'53"	10 ^h 38'	20° 2'	7°17'	29°56'	4°17'	25° 5'	18°30'	22°50'	9°53'	7°D55	9°11'	5°39'	n.a.		
S 16	0 38 44	8°57'54"	23° 5'	20°19'	8°32'	0 ^h 42'	4°21'	25°10'	18°28'	22°52'	9°53'	7°55'	9° 7'	5°45'	n.a.		
S 17	0 42 41	9°58'55"	5 ^h 17'	20°45'	9°48'	1°28'	4°25'	25°16'	18°27'	22°54'	9°53'	7°57'	9° 4'	5°52'	n.a.		
M18	0 46 37	10°59'58"	17°18'	21°19'	11° 4'	2°15'	4°28'	25°22'	18°25'	22°57'	9°54'	7°59'	9° 1'	5°59'	n.a.		
T 19	0 50 34	12° 1'01"	29°11'	22° 0'	12°19'	3° 1'	4°32'	25°28'	18°23'	22°59'	9°54'	8° 1'	8°58'	6° 6'	n.a.		
W20	0 54 30	13° 2'05"	11 ^h 2	22°49'	13°35'	3°47'	4°35'	25°33'	18°21'	23° 1'	9°54'	8°R 1	8°55'	6°12'	n.a.		
T 21	0 58 27	14° 3'10"	22°55'	23°43'	14°51'	4°34'	4°38'	25°39'	18°19'	23° 3'	9°55'	8° 1'	8°52'	6°19'	n.a.		
F 22	1 2 24	15° 4'16"	4 ^h 56'	24°42'	16° 6'	5°20'	4°40'	25°45'	18°17'	23° 5'	9°55'	7°59'	8°48'	6°26'	n.a.		
S 23	1 6 20	16° 5'22"	17° 9'	25°45'	17°22'	6° 6'	4°43'	25°51'	18°15'	23° 7'	9°55'	7°57'	8°45'	6°32'	n.a.		
S 24	1 10 17	17° 6'29"	29°37'	26°53'	18°37'	6°53'	4°45'	25°57'	18°13'	23° 9'	9°56'	7°54'	8°42'	6°39'	n.a.		
M25	1 14 13	18° 7'37"	12 ^h 24'	28° 4'	19°53'	7°39'	4°48'	26° 3'	18°11'	23°11'	9°56'	7°51'	8°39'	6°46'	n.a.		
T 26	1 18 10	19° 8'46"	25°31'	29°17'	21° 9'	8°26'	4°50'	26°10'	18° 8'	23°13'	9°57'	7°48'	8°36'	6°52'	n.a.		
W27	1 22 6	20° 9'55"	8 ^h 58'	0 ^h 33'	22°24'	9°12'	4°51'	26°16'	18° 6'	23°16'	9°57'	7°45'	8°33'	6°59'	n.a.		
T 28	1 26 3	21°11'05"	22°43'	1°52'	23°40'	9°58'	4°53'	26°22'	18° 4'	23°18'	9°58'	7°44'	8°29'	7° 6'	n.a.		
F 29	1 29 59	22°12'15"	6 ^h 44'	3°12'	24°55'	10°45'	4°54'	26°28'	18° 2'	23°20'	9°58'	7°D43	8°26'	7°13'	n.a.		
S 30	1 33 56	23°13'27"	20°56'	4°33'	26°11'	11°31'	4°56'	26°35'	18° 0'	23°22'	9°59'	7°44'	8°23'	7°19'	n.a.		
S 31	1 37 52	24°14'40"	5 ^h 15'	5 ^h 57'	27°26'	12°18'	4 ^h 57'	26 ^h 41'	17 ^h 57'	23 ^h 24'	9 ^h 59'	7 ^h 45'	8 ^h 20'	7 ^h 26'	n.a.		

Delta T = 11h07m41s Julian Calendar created from Swiss Ephemeris, Copyright AstroDienst AG [7.2.2007]

SWISS EPHEMERIS for the year 1664 BCE

NOVEMBER 1664 BCE (-1663) JC

00:00 UT

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

Delta T = 11h07m39s Julian Calendar 1 Nov. 1664 BCE == Greg. Calendar 18 Oct. 1664 BCE
 The year -1663 astronomical counting style corresponds to year 1664 B.C.E historical counting style.

DECEMBER 1664 BCE (-1663) JC

00:00 UT

Day	Sid.t	☉	☽	♀	♁	♂	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
W 1	3 40 6	25 ^h 54'46"	28 ^h 44'	23 ^h 21'	6 ^h 24'	6 ^h 20'	3°R53	0 ^h 13'	16°R39	24 ^h 16'	10 ^h 29'	7°R38	6 ^h 41'	10 ^h 54'	n.a.		
T 2	3 44 2	26°56'00"	13 ^h 3'	24°58'	7°39'	7° 6'	3 ^h 48'	0°20'	16 ^h 36'	24°17'	10°30'	7 ^h 36'	6°38'	11° 1'	n.a.		
F 3	3 47 59	27°57'13"	27° 4'	26°37'	8°54'	7°52'	3°43'	0°27'	16°34'	24°18'	10°32'	7°D36	6°35'	11° 7'	n.a.		
S 4	3 51 55	28°58'26"	10 ^h 46'	28°16'	10°10'	8°39'	3°37'	0°35'	16°31'	24°19'	10°33'	7°36'	6°32'	11°14'	n.a.		
S 5	3 55 52	29°59'39"	24° 8'	29°55'	11°25'	9°25'	3°32'	0°42'	16°29'	24°21'	10°34'	7°37'	6°29'	11°21'	n.a.		
M 6	3 59 49	1 ^h 0'51"	7 ^h 14'	1 ^h 35'	12°40'	10°11'	3°26'	0°49'	16°26'	24°22'	10°36'	7°39'	6°25'	11°27'	n.a.		
T 7	4 3 45	2° 2'03"	20° 4'	3°15'	13°55'	10°58'	3°20'	0°56'	16°24'	24°23'	10°37'	7°40'	6°22'	11°34'	n.a.		
W 8	4 7 42	3° 3'14"	2 ^h 41'	4°56'	15°10'	11°44'	3°14'	1° 3'	16°21'	24°24'	10°38'	7°R41	6°19'	11°41'	n.a.		
T 9	4 11 38	4° 4'24"	15° 7'	6°38'	16°25'	12°30'	3° 8'	1°10'	16°19'	24°25'	10°40'	7°41'	6°16'	11°48'	n.a.		
F 10	4 15 35	5° 5'33"	27°24'	8°20'	17°40'	13°16'	3° 2'	1°17'	16°17'	24°26'	10°41'	7°40'	6°13'	11°54'	n.a.		
S 11	4 19 31	6° 6'42"	9 ^h 31'	10° 3'	18°56'	14° 2'	2°56'	1°25'	16°14'	24°27'	10°43'	7°37'	6°10'	12° 1'	n.a.		
S 12	4 23 28	7° 7'49"	21°32'	11°46'	20°11'	14°49'	2°49'	1°32'	16°12'	24°28'	10°44'	7°32'	6° 6'	12° 8'	n.a.		
M13	4 27 24	8° 8'56"	3 ^h 28'	13°29'	21°26'	15°35'	2°43'	1°39'	16° 9'	24°29'	10°46'	7°26'	6° 3'	12°14'	n.a.		
T 14	4 31 21	9°10'01"	15°20'	15°13'	22°41'	16°21'	2°36'	1°46'	16° 7'	24°30'	10°47'	7°20'	6° 0'	12°21'	n.a.		
W15	4 35 18	10°11'05"	27°11'	16°58'	23°56'	17° 7'	2°29'	1°53'	16° 5'	24°31'	10°49'	7°14'	5°57'	12°28'	n.a.		
T 16	4 39 14	11°12'08"	9 ^h 3'	18°42'	25°11'	17°53'	2°23'	2° 0'	16° 2'	24°32'	10°50'	7° 9'	5°54'	12°35'	n.a.		
F 17	4 43 11	12°13'09"	21° 0'	20°27'	26°26'	18°39'	2°16'	2° 7'	16° 0'	24°33'	10°52'	7° 5'	5°51'	12°41'	n.a.		
S 18	4 47 7	13°14'09"	3 ^h 7'	22°13'	27°41'	19°25'	2° 8'	2°14'	15°58'	24°33'	10°53'	7° 3'	5°47'	12°48'	n.a.		
S 19	4 51 4	14°15'07"	15°27'	23°58'	28°56'	20°11'	2° 1'	2°21'	15°56'	24°34'	10°55'	7°D 3'	5°44'	12°55'	n.a.		
M20	4 55 0	15°16'03"	28° 5'	25°43'	0 ^h 11'	20°57'	1°54'	2°28'	15°54'	24°35'	10°56'	7° 3'	5°41'	13° 1'	n.a.		
T 21	4 58 57	16°16'58"	11 ^h 6'	27°28'	1°25'	21°43'	1°47'	2°35'	15°51'	24°35'	10°58'	7° 5'	5°38'	13° 8'	n.a.		
W22	5 2 53	17°17'52"	24°33'	29°13'	2°40'	22°29'	1°39'	2°42'	15°49'	24°36'	10°59'	7° 6'	5°35'	13°15'	n.a.		
T 23	5 6 50	18°18'44"	8 ^h 28'	0 ^h 57'	3°55'	23°14'	1°32'	2°49'	15°47'	24°37'	11° 1'	7°R 7'	5°31'	13°22'	n.a.		
F 24	5 10 47	19°19'34"	22°51'	2°40'	5°10'	24° 0'	1°24'	2°56'	15°45'	24°37'	11° 2'	7° 6'	5°28'	13°28'	n.a.		
S 25	5 14 43	20°20'23"	7 ^h 39'	4°23'	6°25'	24°46'	1°16'	3° 3'	15°43'	24°38'	11° 4'	7° 3'	5°25'	13°35'	n.a.		
S 26	5 18 40	21°21'10"	22°45'	6° 3'	7°40'	25°32'	1° 9'	3°10'	15°41'	24°38'	11° 6'	6°58'	5°22'	13°42'	n.a.		
M27	5 22 36	22°21'56"	7 ^h 59'	7°42'	8°54'	26°17'	1° 1'	3°17'	15°39'	24°39'	11° 7'	6°51'	5°19'	13°48'	n.a.		
T 28	5 26 33	23°22'40"	23°11'	9°18'	10° 9'	27° 3'	0°53'	3°24'	15°37'	24°39'	11° 9'	6°44'	5°16'	13°55'	n.a.		
W29	5 30 29	24°23'23"	8 ^h 10'	10°51'	11°24'	27°49'	0°45'	3°31'	15°35'	24°40'	11°11'	6°37'	5°12'	14° 2'	n.a.		
T 30	5 34 26	25°24'04"	22°49'	12°21'	12°39'	28°34'	0°37'	3°38'	15°34'	24°40'	11°12'	6°31'	5° 9'	14° 9'	n.a.		
F 31	5 38 22	26°24'45"	7 ^h 13'	13 ^h 47'	13 ^h 53'	29°20'	0 ^h 30'	3 ^h 44'	15°32'	24 ^h 40'	11 ^h 14'	6 ^h 27'	5 ^h 6'	14 ^h 15'	n.a.		

Delta T = 11h07m37s Julian Calendar created from Swiss Ephemeris, Copyright Astrodienst AG [7.2.2007]