Attention, astronomical year style is used: The year -1900 in astronomical counting style is the year 1901 BCE in historical counting style.

opposition	-1900 Jan 24 j 21:50	19°♋15'18	0°41'32
min. Earth dist.	-1900 Jan 25 j 22:13	19°♋12'38	17.25526 AU
direct	-1900 Apr 10 j 06:01	17°♋08'37	
evening set	-1900 Jul 15 j 14:15	20°♋40'22	
max. Earth dist.	-1900 Jul 30 j 21:46	21°♋37'59	19.25234 AU
conjunction	-1900 Aug 01 j 01:35	21°♋42'23	0°38'19
minimum elong	-1900 Aug 01 j 01:35	21°♋42'23	0°38'22
morning rise	-1900 Aug 17 j 09:01	22°♋43'49	
retrograde	-1900 Nov 16 j 16:43	26°♋06'35	
opposition	-1899 Jan 28 j 23:42	24°♋04'23	0°43'51
min. Earth dist.	-1899 Jan 29 j 22:47	24°♋01'52	17.25163 AU
direct	-1899 Apr 15 j 12:11	21°♋57'42	
evening set	-1899 Jul 20 j 19:29	25°♋29'40	
max. Earth dist.	-1899 Aug 05 j 03:49	26°♋27'29	19.25120 AU
conjunction	-1899 Aug 06 j 05:46	26°♋31'35	0°40'16
minimum elong	-1899 Aug 06 j 05:46	26°♋31'35	0°40'17
morning rise	-1899 Aug 22 j 11:44	27°♋32'54	
	-1899 Oct 07 j 21:10	0°♌	
retrograde	-1899 Nov 21 j 17:03	0°♌55'36	
	-1898 Jan 07 j 03:35	30°℞♋	
opposition	-1898 Feb 03 j 02:12	28°♋53'31	0°45'52
min. Earth dist.	-1898 Feb 04 j 01:18	28°♋51'00	17.25302 AU
direct	-1898 Apr 20 j 16:21	26°♋46'52	
	-1898 Jul 20 j 20:58	0°♌	
evening set	-1898 Jul 26 j 00:20	0°♌18'52	
max. Earth dist.	-1898 Aug 10 j 07:09	1°♌16'31	19.25517 AU
conjunction	-1898 Aug 11 j 09:13	1°♌20'39	0°41'55
minimum elong	-1898 Aug 11 j 09:13	1°♌20'39	0°41'57
morning rise	-1898 Aug 27 j 14:07	2°♌21'50	
retrograde	-1898 Nov 26 j 18:24	5°♌44'26	
opposition	-1897 Feb 08 j 04:44	3°♌42'24	0°47'33
min. Earth dist.	-1897 Feb 09 j 02:29	3°♌40'02	17.25952 AU
direct	-1897 Apr 25 j 21:37	1°♌35'47	
evening set	-1897 Jul 31 j 04:41	5°♌07'43	
conjunction	-1897 Aug 16 j 12:30	6°♌09'20	0°43'17
minimum elong	-1897 Aug 16 j 12:30	6°♌09'20	0°43'18
max. Earth dist.	-1897 Aug 15 j 12:40	6°♌05'33	19.26418 AU
morning rise	-1897 Sep 01 j 15:58	7°♌10'21	
retrograde	-1897 Dec 01 j 19:04	10°♌32'45	
opposition	-1896 Feb 13 j 07:24	8°♌30'48	0°48'54
min. Earth dist.	-1896 Feb 14 j 04:34	8°♌28'30	17.27099 AU
direct	-1896 Apr 30 j 02:21	6°♌24'15	
evening set	-1896 Aug 04 j 08:39	9°♌55'58	
conjunction	-1896 Aug 20 j 15:02	10°♌57'23	0°44'20
minimum elong	-1896 Aug 20 j 15:02	10°♌57'23	0°44'21
max. Earth dist.	-1896 Aug 19 j 15:29	10°♌53'39	19.27833 AU
morning rise	-1896 Sep 05 j 17:25	11°♌58'13	
	-1896 Nov 08 j 22:16	15°♌	
retrograde	-1896 Dec 05 j 19:25	15°♌20'24	
	-1895 Jan 02 j 04:44	15°℞♌	
opposition	-1895 Feb 17 j 10:16	13°♌18'28	0°49'53
min. Earth dist.	-1895 Feb 18 j 06:02	13°♌16'20	17.28784 AU
direct	-1895 May 05 j 06:41	11°♌12'00	
evening set	-1895 Aug 09 j 11:36	14°♌43'21	
	-1895 Aug 13 j 22:36	15°♌	
conjunction	-1895 Aug 25 j 16:51	15°♌44'34	0°45'04
minimum elong	-1895 Aug 25 j 16:51	15°♌44'34	0°45'06
max. Earth dist.	-1895 Aug 24 j 20:01	15°♌41'16	19.29790 AU
morning rise	-1895 Sep 10 j 17:54	16°♌45'11	
retrograde	-1895 Dec 10 j 19:56	20°♌07'05	
opposition	-1894 Feb 22 j 13:08	18°♌05'12	0°50'32
min. Earth dist.	-1894 Feb 23 j 07:24	18°♌03'14	17.31006 AU
direct	-1894 May 10 j 12:11	15°♌58'52	
evening set	-1894 Aug 14 j 14:00	19°♌29'43	
conjunction	-1894 Aug 30 j 17:52	20°♌30'42	0°45'29
minimum elong	-1894 Aug 30 j 17:52	20°♌30'42	0°45'30
max. Earth dist.	-1894 Aug 29 j 22:04	20°♌27'34	19.32304 AU
morning rise	-1894 Sep 15 j 17:51	21°♌31'06	
retrograde	-1894 Dec 15 j 18:37	24°♌52'39	
opposition	-1893 Feb 27 j 15:47	22°♌50'49	0°50'49
min. Earth dist.	-1893 Feb 28 j 08:37	22°♌49'01	17.33819 AU
direct	-1893 May 15 j 15:37	20°♌44'38	
evening set	-1893 Aug 19 j 15:28	24°♌14'54	
conjunction	-1893 Sep 04 j 18:12	25°♌15'37	0°45'35
minimum elong	-1893 Sep 04 j 18:12	25°♌15'38	0°45'37
max. Earth dist.	-1893 Sep 04 j 01:11	25°♌12'56	19.35415 AU
morning rise	-1893 Sep 20 j 17:00	26°♌15'47	
retrograde	-1893 Dec 20 j 18:39	29°♌36'57	
opposition	-1892 Mar 03 j 18:23	27°♌35'13	0°50'45
min. Earth dist.	-1892 Mar 04 j 08:54	27°♌33'39	17.37214 AU
direct	-1892 May 19 j 21:08	25°♌29'15	
evening set	-1892 Aug 23 j 16:11	28°♌58'48	
conjunction	-1892 Sep 08 j 17:36	29°♌59'16	0°45'23
minimum elong	-1892 Sep 08 j 17:36	29°♌59'16	0°45'24
max. Earth dist.	-1892 Sep 08 j 02:19	29°♌56'51	19.39116 AU
	-1892 Sep 08 j 22:16	0°♍	
morning rise	-1892 Sep 24 j 15:19	0°♍59'10	
retrograde	-1892 Dec 24 j 16:02	4°♍19'58	
opposition	-1891 Mar 08 j 20:53	2°♍18'19	0°50'21
min. Earth dist.	-1891 Mar 09 j 09:54	2°♍16'56	17.41222 AU
direct	-1891 May 24 j 23:45	0°♍12'38	
evening set	-1891 Aug 28 j 15:59	3°♍41'25	
conjunction	-1891 Sep 13 j 16:16	4°♍41'36	0°44'53
minimum elong	-1891 Sep 13 j 16:16	4°♍41'36	0°44'54
max. Earth dist.	-1891 Sep 13 j 03:37	4°♍39'36	19.43427 AU
morning rise	-1891 Sep 29 j 12:57	5°♍41'14	
retrograde	-1891 Dec 29 j 15:17	9°♍01'36	
opposition	-1890 Mar 13 j 23:00	7°♍00'07	0°49'37
min. Earth dist.	-1890 Mar 14 j 09:06	6°♍59'03	17.45804 AU
direct	-1890 May 30 j 04:42	4°♍54'47	
evening set	-1890 Sep 02 j 14:49	8°♍22'42	
conjunction	-1890 Sep 18 j 13:59	9°♍22'35	0°44'05
minimum elong	-1890 Sep 18 j 13:59	9°♍22'35	0°44'07
max. Earth dist.	-1890 Sep 18 j 03:36	9°♍20'57	19.48285 AU
morning rise	-1890 Oct 04 j 09:43	10°♍21'58	
retrograde	-1889 Jan 03 j 11:35	13°♍41'54	
opposition	-1889 Mar 19 j 00:55	11°♍40'35	0°48'34
min. Earth dist.	-1889 Mar 19 j 09:47	11°♍39'39	17.50915 AU
direct	-1889 Jun 04 j 06:04	9°♍35'38	
evening set	-1889 Sep 07 j 12:52	13°♍02'37	
conjunction	-1889 Sep 23 j 10:54	14°♍02'12	0°43'01
minimum elong	-1889 Sep 23 j 10:54	14°♍02'12	0°43'00
max. Earth dist.	-1889 Sep 23 j 02:41	14°♍00'54	19.53638 AU
morning rise	-1889 Oct 09 j 05:48	15°♍01'19	
retrograde	-1888 Jan 08 j 09:53	18°♍20'46	
opposition	-1888 Mar 23 j 02:18	16°♍19'39	0°47'12
min. Earth dist.	-1888 Mar 23 j 08:09	16°♍19'02	17.56466 AU
direct	-1888 Jun 08 j 09:53	14°♍15'08	

Attention, astronomical year style is used: The year -1888 in astronomical counting style is the year 1889 BCE in historical counting style.

evening set	-1888 Sep 11 j 10:01	17°♍41'05	
conjunction	-1888 Sep 27 j 07:03	18°♍40'22	0°41'39
minimum elong	-1888 Sep 27 j 07:03	18°♍40'22	0°41'40
max. Earth dist.	-1888 Sep 27 j 01:25	18°♍39'29	19.59388 AU
morning rise	-1888 Oct 13 j 01:02	19°♍39'12	
retrograde	-1887 Jan 12 j 05:12	22°♍58'10	
opposition	-1887 Mar 28 j 03:38	20°♍57'15	0°45'31
min. Earth dist.	-1887 Mar 28 j 08:25	20°♍56'45	17.62396 AU
direct	-1887 Jun 13 j 10:10	18°♍53'10	
evening set	-1887 Sep 16 j 06:10	22°♍18'01	
conjunction	-1887 Oct 02 j 02:08	23°♍16'58	0°40'02
minimum elong	-1887 Oct 02 j 02:08	23°♍16'58	0°40'02
max. Earth dist.	-1887 Oct 01 j 22:14	23°♍16'22	19.65481 AU
morning rise	-1887 Oct 17 j 19:29	24°♍15'33	
retrograde	-1886 Jan 17 j 02:35	27°♍33'59	
opposition	-1886 Apr 02 j 04:19	25°♍33'15	0°43'34
min. Earth dist.	-1886 Apr 02 j 06:04	25°♍33'04	17.68617 AU
direct	-1886 Jun 18 j 11:55	23°♍29'35	
evening set	-1886 Sep 21 j 01:26	26°♍53'16	
conjunction	-1886 Oct 06 j 20:35	27°♍51'55	0°38'10
minimum elong	-1886 Oct 06 j 20:36	27°♍51'55	0°38'10
max. Earth dist.	-1886 Oct 06 j 19:23	27°♍51'44	19.71818 AU
morning rise	-1886 Oct 22 j 13:09	28°♍50'13	
	-1886 Nov 11 j 14:31	0°♎	
retrograde	-1885 Jan 21 j 20:59	2°♎08'05	
opposition	-1885 Apr 07 j 04:29	0°♎07'31	0°41'20
min. Earth dist.	-1885 Apr 07 j 05:23	0°♎07'26	17.75058 AU
	-1885 Apr 10 j 04:38	30°℞♍	
direct	-1885 Jun 23 j 10:42	28°♍04'18	
	-1885 Aug 31 j 08:23	0°♎	
evening set	-1885 Sep 25 j 19:52	1°♎26'45	
conjunction	-1885 Oct 11 j 14:04	2°♎25'05	0°36'05
minimum elong	-1885 Oct 11 j 14:04	2°♎25'05	0°36'05
max. Earth dist.	-1885 Oct 11 j 14:01	2°♎25'05	19.78349 AU
morning rise	-1885 Oct 27 j 06:09	3°♎23'06	
retrograde	-1884 Jan 26 j 17:27	6°♎40'22	
opposition	-1884 Apr 11 j 04:06	4°♎39'57	0°38'52
min. Earth dist.	-1884 Apr 11 j 02:03	4°♎40'10	17.81652 AU
direct	-1884 Jun 27 j 10:31	2°♎37'08	
evening set	-1884 Sep 29 j 13:07	5°♎58'19	
conjunction	-1884 Oct 15 j 06:38	6°♎56'20	0°33'46
minimum elong	-1884 Oct 15 j 06:38	6°♎56'20	0°33'45
max. Earth dist.	-1884 Oct 15 j 09:26	6°♎56'46	19.84997 AU
morning rise	-1884 Oct 30 j 22:04	7°♎54'04	
retrograde	-1883 Jan 30 j 10:34	11°♎10'44	
opposition	-1883 Apr 16 j 03:16	9°♎10'26	0°36'11
min. Earth dist.	-1883 Apr 16 j 00:14	9°♎10'45	17.88346 AU
direct	-1883 Jul 02 j 08:20	7°♎08'02	
evening set	-1883 Oct 04 j 05:32	10°♎27'52	
conjunction	-1883 Oct 19 j 22:14	11°♎25'34	0°31'16
minimum elong	-1883 Oct 19 j 22:14	11°♎25'34	0°31'16
max. Earth dist.	-1883 Oct 20 j 02:00	11°♎26'09	19.91738 AU
morning rise	-1883 Nov 04 j 13:24	12°♎23'02	
retrograde	-1882 Feb 04 j 05:55	15°♎39'03	
opposition	-1882 Apr 21 j 01:25	13°♎38'50	0°33'17
min. Earth dist.	-1882 Apr 20 j 19:37	13°♎39'26	17.95121 AU
direct	-1882 Jul 07 j 06:30	11°♎36'47	
evening set	-1882 Oct 08 j 20:41	14°♎55'16	
conjunction	-1882 Oct 24 j 12:57	15°♎52'40	0°28'36
minimum elong	-1882 Oct 24 j 12:57	15°♎52'40	0°28'35
max. Earth dist.	-1882 Oct 24 j 19:40	15°♎53'41	19.98539 AU
morning rise	-1882 Nov 09 j 03:39	16°♎49'52	
retrograde	-1881 Feb 08 j 21:24	20°♎05'13	
opposition	-1881 Apr 25 j 22:58	18°♎05'04	0°30'13
min. Earth dist.	-1881 Apr 25 j 16:04	18°♎05'47	18.01945 AU
direct	-1881 Jul 12 j 03:10	16°♎03'24	
evening set	-1881 Oct 13 j 10:58	19°♎20'29	
conjunction	-1881 Oct 29 j 02:30	20°♎17'34	0°25'46
minimum elong	-1881 Oct 29 j 02:31	20°♎17'34	0°25'45
max. Earth dist.	-1881 Oct 29 j 10:13	20°♎18'44	20.05400 AU
morning rise	-1881 Nov 13 j 17:06	21°♎14'30	
retrograde	-1880 Feb 13 j 14:48	24°♎29'11	
opposition	-1880 Apr 29 j 19:37	22°♎29'05	0°26'59
min. Earth dist.	-1880 Apr 29 j 10:01	22°♎30'04	18.08843 AU
direct	-1880 Jul 15 j 23:57	20°♎27'45	
evening set	-1880 Oct 17 j 00:05	23°♎43'28	
conjunction	-1880 Nov 01 j 15:18	24°♎40'15	0°22'50
minimum elong	-1880 Nov 01 j 15:18	24°♎40'15	0°22'48
max. Earth dist.	-1880 Nov 02 j 02:14	24°♎41'55	20.12332 AU
morning rise	-1880 Nov 17 j 05:32	25°♎36'55	
retrograde	-1879 Feb 17 j 04:47	28°♎50'57	
opposition	-1879 May 04 j 15:36	26°♎50'55	0°23'38
min. Earth dist.	-1879 May 04 j 04:30	26°♎52'03	18.15816 AU
direct	-1879 Jul 20 j 19:03	24°♎49'58	
evening set	-1879 Oct 21 j 12:20	28°♎04'17	
conjunction	-1879 Nov 06 j 03:00	29°♎00'47	0°19'47
minimum elong	-1879 Nov 06 j 03:00	29°♎00'47	0°19'45
max. Earth dist.	-1879 Nov 06 j 14:58	29°♎02'35	20.19351 AU
morning rise	-1879 Nov 21 j 17:19	29°♎57'13	
	-1879 Nov 22 j 12:11	0°♏	
retrograde	-1878 Feb 21 j 20:26	3°♏10'36	
opposition	-1878 May 09 j 10:41	1°♏10'38	0°20'11
min. Earth dist.	-1878 May 08 j 21:05	1°♏12'01	18.22879 AU
	-1878 Jun 09 j 06:25	30°℞♎	
direct	-1878 Jul 25 j 13:24	29°♎10'04	
	-1878 Sep 08 j 00:33	0°♏	
evening set	-1878 Oct 25 j 23:38	2°♏23'03	
conjunction	-1878 Nov 10 j 14:09	3°♏19'17	0°16'38
minimum elong	-1878 Nov 10 j 14:09	3°♏19'17	0°16'37
max. Earth dist.	-1878 Nov 11 j 05:12	3°♏21'33	20.26436 AU
morning rise	-1878 Nov 26 j 04:15	4°♏15'28	
retrograde	-1877 Feb 26 j 09:13	7°♏28'14	
opposition	-1877 May 14 j 04:51	5°♏28'23	0°16'39
min. Earth dist.	-1877 May 13 j 13:41	5°♏29'55	18.29980 AU
direct	-1877 Jul 30 j 06:35	3°♏28'14	
evening set	-1877 Oct 30 j 10:16	6°♏39'55	
conjunction	-1877 Nov 15 j 00:22	7°♏35'52	0°13'26
minimum elong	-1877 Nov 15 j 00:22	7°♏35'52	0°13'24
behind sun begin	-1877 Nov 14 j 20:32	7°♏35'18	
behind sun end	-1877 Nov 15 j 04:13	7°♏36'26	
max. Earth dist.	-1877 Nov 15 j 16:15	7°♏38'15	20.33551 AU
morning rise	-1877 Nov 30 j 14:41	8°♏31'50	
retrograde	-1876 Mar 01 j 23:20	11°♏44'01	
opposition	-1876 May 17 j 22:28	9°♏44'17	0°13'03
min. Earth dist.	-1876 May 17 j 05:13	9°♏46'02	18.37098 AU
direct	-1876 Aug 02 j 22:21	7°♏44'34	
evening set	-1876 Nov 02 j 19:51	10°♏54'59	
conjunction	-1876 Nov 18 j 09:57	11°♏50'41	0°10'11
minimum elong	-1876 Nov 18 j 09:57	11°♏50'41	0°10'10
behind sun begin	-1876 Nov 18 j 04:41	11°♏49'55	
behind sun end	-1876 Nov 18 j 15:13	11°♏51'27	

Attention, astronomical year style is used: The year -1876 in astronomical counting style is the year 1877 BCE in historical counting style.

max. Earth dist.	-1876 Nov 19 j 04:46	11°♏53'30	20.40643 AU
morning rise	-1876 Dec 04 j 00:13	12°♏46'26	
	-1875 Jan 17 j 04:58	15°♏	
retrograde	-1875 Mar 06 j 11:52	15°♏58'04	
	-1875 Apr 26 j 00:11	15°℞♏	
opposition	-1875 May 22 j 15:20	13°♏58'29	0°09'24
min. Earth dist.	-1875 May 21 j 20:31	14°♏00'23	18.44145 AU
direct	-1875 Aug 07 j 13:53	11°♏59'11	
	-1875 Nov 04 j 19:16	15°♏	
evening set	-1875 Nov 07 j 05:00	15°♏08'23	
conjunction	-1875 Nov 22 j 18:50	16°♏03'50	0°06'54
minimum elong	-1875 Nov 22 j 18:51	16°♏03'50	0°06'52
behind sun begin	-1875 Nov 22 j 12:45	16°♏02'57	
behind sun end	-1875 Nov 23 j 00:56	16°♏04'43	
max. Earth dist.	-1875 Nov 23 j 14:14	16°♏06'44	20.47636 AU
morning rise	-1875 Dec 08 j 09:29	16°♏59'24	
retrograde	-1874 Mar 11 j 00:24	20°♏10'30	
min. Earth dist.	-1874 May 26 j 11:08	18°♏13'05	18.51076 AU
opposition	-1874 May 27 j 07:19	18°♏11'03	0°05'43
direct	-1874 Aug 12 j 03:19	16°♏12'10	
evening set	-1874 Nov 11 j 13:21	19°♏20'12	
conjunction	-1874 Nov 27 j 03:21	20°♏15'26	0°03'35
minimum elong	-1874 Nov 27 j 03:20	20°♏15'26	0°03'33
behind sun begin	-1874 Nov 26 j 20:51	20°♏14'30	
behind sun end	-1874 Nov 27 j 09:49	20°♏16'22	
max. Earth dist.	-1874 Nov 28 j 01:09	20°♏18'41	20.54464 AU
morning rise	-1874 Dec 12 j 18:03	21°♏10'48	
retrograde	-1873 Mar 15 j 12:29	24°♏21'23	
opposition	-1873 May 31 j 22:38	22°♏22'05	0°02'02
min. Earth dist.	-1873 May 31 j 01:07	22°♏24'15	18.57787 AU
direct	-1873 Aug 16 j 17:25	20°♏23'38	
evening set	-1873 Nov 15 j 21:12	23°♏30'31	
conjunction	-1873 Dec 01 j 11:01	24°♏25'32	0°00'12
minimum elong	-1873 Dec 01 j 11:01	24°♏25'32	0°00'10
behind sun begin	-1873 Dec 01 j 04:34	24°♏24'37	
behind sun end	-1873 Dec 01 j 17:28	24°♏26'28	
max. Earth dist.	-1873 Dec 02 j 09:02	24°♏28'48	20.61041 AU
morning rise	-1873 Dec 17 j 02:12	25°♏20'45	
desc. node	-1873 Dec 22 j 07:30	25°♏38'42	
retrograde	-1872 Mar 18 j 23:41	28°♏30'52	
opposition	-1872 Jun 04 j 13:23	26°♏31'41	-0°01'39
min. Earth dist.	-1872 Jun 03 j 15:03	26°♏33'55	18.64230 AU
direct	-1872 Aug 20 j 05:11	24°♏33'35	
evening set	-1872 Nov 19 j 04:25	27°♏39'23	
conjunction	-1872 Dec 04 j 18:31	28°♏34'13	-0°03'12
minimum elong	-1872 Dec 04 j 18:31	28°♏34'13	0°03'14
behind sun begin	-1872 Dec 04 j 12:01	28°♏33'17	
behind sun end	-1872 Dec 05 j 01:01	28°♏35'09	
max. Earth dist.	-1872 Dec 05 j 18:32	28°♏37'46	20.67312 AU
morning rise	-1872 Dec 20 j 09:54	29°♏29'16	
	-1872 Dec 29 j 11:10	0°♐	
retrograde	-1871 Mar 23 j 10:51	2°♐38'55	
min. Earth dist.	-1871 Jun 08 j 03:48	0°♐42'12	18.70318 AU
opposition	-1871 Jun 09 j 03:18	0°♐39'50	-0°05'18
	-1871 Jun 26 j 01:11	30°℞♏	
direct	-1871 Aug 24 j 17:43	28°♏42'05	
	-1871 Oct 19 j 23:44	0°♐	
evening set	-1871 Nov 23 j 11:15	1°♐46'51	
conjunction	-1871 Dec 09 j 01:24	2°♐41'30	-0°06'28
minimum elong	-1871 Dec 09 j 01:23	2°♐41'30	0°06'29
behind sun begin	-1871 Dec 08 j 19:13	2°♐40'37	
behind sun end	-1871 Dec 09 j 07:32	2°♐42'23	
max. Earth dist.	-1871 Dec 10 j 01:08	2°♐45'00	20.73201 AU
morning rise	-1871 Dec 24 j 17:23	3°♐36'25	
retrograde	-1870 Mar 27 j 21:06	6°♐45'37	
opposition	-1870 Jun 13 j 16:37	4°♐46'36	-0°08'54
min. Earth dist.	-1870 Jun 12 j 16:51	4°♐48'59	18.76010 AU
direct	-1870 Aug 29 j 04:04	2°♐49'08	
evening set	-1870 Nov 27 j 17:26	5°♐52'54	
conjunction	-1870 Dec 13 j 07:59	6°♐47'24	-0°09'40
minimum elong	-1870 Dec 13 j 07:59	6°♐47'24	0°09'43
behind sun begin	-1870 Dec 13 j 02:34	6°♐46'38	
behind sun end	-1870 Dec 13 j 13:23	6°♐48'10	
max. Earth dist.	-1870 Dec 14 j 09:17	6°♐51'06	20.78666 AU
morning rise	-1870 Dec 29 j 00:17	7°♐42'11	
retrograde	-1869 Apr 01 j 06:58	10°♐50'56	
min. Earth dist.	-1869 Jun 17 j 04:14	8°♐54'27	18.81247 AU
opposition	-1869 Jun 18 j 05:01	8°♐51'58	-0°12'26
direct	-1869 Sep 02 j 14:55	6°♐54'45	
evening set	-1869 Dec 01 j 23:16	9°♐57'34	
conjunction	-1869 Dec 17 j 13:57	10°♐51'54	-0°12'49
minimum elong	-1869 Dec 17 j 13:57	10°♐51'54	0°12'51
behind sun begin	-1869 Dec 17 j 09:49	10°♐51'19	
behind sun end	-1869 Dec 17 j 18:06	10°♐52'30	
max. Earth dist.	-1869 Dec 18 j 14:52	10°♐55'33	20.83686 AU
morning rise	-1868 Jan 02 j 06:58	11°♐46'35	
retrograde	-1868 Apr 04 j 16:16	14°♐54'55	
opposition	-1868 Jun 21 j 16:57	12°♐55'57	-0°15'53
min. Earth dist.	-1868 Jun 20 j 16:11	12°♐58'25	18.86063 AU
direct	-1868 Sep 05 j 23:54	10°♐58'55	
evening set	-1868 Dec 05 j 04:19	14°♐00'50	
conjunction	-1868 Dec 20 j 19:33	14°♐55'03	-0°15'53
minimum elong	-1868 Dec 20 j 19:34	14°♐55'03	0°15'56
behind sun begin	-1868 Dec 20 j 18:16	14°♐54'52	
behind sun end	-1868 Dec 20 j 20:51	14°♐55'14	
max. Earth dist.	-1868 Dec 21 j 22:05	14°♐58'55	20.88289 AU
morning rise	-1867 Jan 05 j 13:03	15°♐49'37	
retrograde	-1867 Apr 09 j 01:21	18°♐57'34	
min. Earth dist.	-1867 Jun 25 j 02:09	17°♐01'10	18.90460 AU
opposition	-1867 Jun 26 j 04:01	16°♐58'35	-0°19'13
direct	-1867 Sep 10 j 09:31	15°♐01'44	
evening set	-1867 Dec 09 j 09:15	18°♐02'48	
conjunction	-1867 Dec 25 j 00:46	18°♐56'54	-0°18'52
minimum elong	-1867 Dec 25 j 00:45	18°♐56'54	0°18'54
max. Earth dist.	-1867 Dec 26 j 02:55	19°♐00'42	20.92490 AU
morning rise	-1866 Jan 09 j 19:03	19°♐51'24	
retrograde	-1866 Apr 13 j 09:38	22°♐59'00	
opposition	-1866 Jun 30 j 14:21	20°♐59'58	-0°22'27
min. Earth dist.	-1866 Jun 29 j 12:46	21°♐02'31	18.94490 AU
direct	-1866 Sep 14 j 16:31	19°♐03'16	
evening set	-1866 Dec 13 j 13:39	22°♐03'34	
conjunction	-1866 Dec 29 j 05:47	22°♐57'36	-0°21'43
minimum elong	-1866 Dec 29 j 05:47	22°♐57'36	0°21'46
max. Earth dist.	-1866 Dec 30 j 09:26	23°♐01'36	20.96335 AU
morning rise	-1865 Jan 14 j 00:36	23°♐52'01	
retrograde	-1865 Apr 17 j 18:27	26°♐59'18	
min. Earth dist.	-1865 Jul 03 j 21:19	25°♐02'56	18.98160 AU
opposition	-1865 Jul 05 j 00:03	25°♐00'16	-0°25'33
direct	-1865 Sep 19 j 01:09	23°♐03'43	
evening set	-1865 Dec 17 j 17:46	26°♐03'20	
conjunction	-1864 Jan 02 j 10:16	26°♐57'16	-0°24'28
minimum elong	-1864 Jan 02 j 10:16	26°♐57'16	0°24'31
max. Earth dist.	-1864 Jan 03 j 13:32	27°♐01'12	20.99831 AU

Attention, astronomical year style is used: The year -1864 in astronomical counting style is the year 1865 BCE in historical counting style.

morning rise	-1864 Jan 18 j 05:58	27°♐51'39		
	-1864 Mar 02 j 06:09	0°♑		
retrograde	-1864 Apr 21 j 02:12	0°♑58'41		
	-1864 Jun 11 j 22:10	30°℞♐		
min. Earth dist.	-1864 Jul 07 j 07:04	29°♐02'16	19.01498 AU	
opposition	-1864 Jul 08 j 09:24	28°♐59'38	-0°28'31	
direct	-1864 Sep 22 j 06:27	27°♐03'14		
evening set	-1864 Dec 20 j 21:41	0°♑02'15		
	-1864 Dec 20 j 05:38	0°♑		
conjunction	-1863 Jan 05 j 14:57	0°♑56'09	-0°27'05	
minimum elong	-1863 Jan 05 j 14:57	0°♑56'09	0°27'07	
max. Earth dist.	-1863 Jan 06 j 19:31	1°♑00'15	21.02993 AU	
morning rise	-1863 Jan 21 j 11:16	1°♑50'29		
retrograde	-1863 Apr 25 j 11:00	4°♑57'18		
opposition	-1863 Jul 12 j 17:57	2°♑58'15	-0°31'20	
min. Earth dist.	-1863 Jul 11 j 14:42	3°♑00'59	19.04478 AU	
direct	-1863 Sep 26 j 14:09	1°♑02'00		
evening set	-1863 Dec 25 j 01:36	4°♑00'30		
conjunction	-1862 Jan 09 j 19:22	4°♑54'22	-0°29'34	
minimum elong	-1862 Jan 09 j 19:22	4°♑54'22	0°29'37	
max. Earth dist.	-1862 Jan 10 j 23:12	4°♑58'21	21.05786 AU	
morning rise	-1862 Jan 25 j 16:40	5°♑48'42		
retrograde	-1862 Apr 29 j 18:42	8°♑55'21		
min. Earth dist.	-1862 Jul 15 j 23:52	6°♑58'57	19.07087 AU	
opposition	-1862 Jul 17 j 02:17	6°♑56'19	-0°34'00	
direct	-1862 Sep 30 j 18:25	5°♑00'11		
evening set	-1862 Dec 29 j 05:16	7°♑58'15		
conjunction	-1861 Jan 13 j 23:53	8°♑52'06	-0°31'55	
minimum elong	-1861 Jan 13 j 23:53	8°♑52'06	0°31'57	
max. Earth dist.	-1861 Jan 15 j 04:40	8°♑56'13	21.08190 AU	
morning rise	-1861 Jan 29 j 21:51	9°♑46'26		
retrograde	-1861 May 04 j 03:09	12°♑52'57		
min. Earth dist.	-1861 Jul 20 j 06:58	10°♑56'39	19.09275 AU	
opposition	-1861 Jul 21 j 10:05	10°♑53'57	-0°36'30	
direct	-1861 Oct 05 j 01:27	8°♑57'57		
evening set	-1860 Jan 02 j 09:12	11°♑55'39		
conjunction	-1860 Jan 18 j 04:23	12°♑49'30	-0°34'06	
minimum elong	-1860 Jan 18 j 04:23	12°♑49'30	0°34'09	
max. Earth dist.	-1860 Jan 19 j 08:06	12°♑53'28	21.10160 AU	
morning rise	-1860 Feb 03 j 03:23	13°♑43'51		
retrograde	-1860 May 07 j 11:14	16°♑50'19		
opposition	-1860 Jul 24 j 17:46	14°♑51'19	-0°38'49	
min. Earth dist.	-1860 Jul 23 j 15:54	14°♑53'54	19.11023 AU	
direct	-1860 Oct 08 j 05:21	12°♑55'25		
evening set	-1859 Jan 05 j 13:02	15°♑52'50		
conjunction	-1859 Jan 21 j 09:11	16°♑46'42	-0°36'07	
minimum elong	-1859 Jan 21 j 09:11	16°♑46'42	0°36'10	
max. Earth dist.	-1859 Jan 22 j 13:24	16°♑50'44	21.11663 AU	
morning rise	-1859 Feb 06 j 08:56	17°♑41'06		
retrograde	-1859 May 11 j 19:31	20°♑47'32		
min. Earth dist.	-1859 Jul 27 j 22:51	18°♑51'08	19.12261 AU	
opposition	-1859 Jul 29 j 00:59	18°♑48'32	-0°40'58	
direct	-1859 Oct 12 j 11:36	16°♑52'42		
evening set	-1858 Jan 09 j 17:21	19°♑49'55		
conjunction	-1858 Jan 25 j 14:08	20°♑43'49	-0°37'59	
minimum elong	-1858 Jan 25 j 14:08	20°♑43'49	0°38'01	
max. Earth dist.	-1858 Jan 26 j 16:43	20°♑47'36	21.12627 AU	
morning rise	-1858 Feb 10 j 14:57	21°♑38'16		
retrograde	-1858 May 16 j 03:24	24°♑44'42		
min. Earth dist.	-1858 Aug 01 j 07:37	22°♑48'06	19.12949 AU	
opposition	-1858 Aug 02 j 07:58	22°♑45'40	-0°42'54	
direct	-1858 Oct 16 j 15:25	20°♑49'52		
evening set	-1857 Jan 13 j 21:38	23°♑46'56		
conjunction	-1857 Jan 29 j 19:26	24°♑40'55	-0°39'39	
minimum elong	-1857 Jan 29 j 19:26	24°♑40'55	0°39'41	
max. Earth dist.	-1857 Jan 30 j 22:01	24°♑44'42	21.13023 AU	
morning rise	-1857 Feb 14 j 21:01	25°♑35'26		
retrograde	-1857 May 20 j 11:48	28°♑41'52		
opposition	-1857 Aug 06 j 14:44	26°♑42'48	-0°44'39	
min. Earth dist.	-1857 Aug 05 j 14:22	26°♑45'15	19.13040 AU	
direct	-1857 Oct 20 j 21:02	24°♑46'58		
evening set	-1856 Jan 18 j 02:08	27°♑43'58		
conjunction	-1856 Feb 03 j 00:41	28°♑38'00	-0°41'08	
minimum elong	-1856 Feb 03 j 00:41	28°♑38'00	0°41'09	
max. Earth dist.	-1856 Feb 04 j 01:24	28°♑41'31	21.12813 AU	
morning rise	-1856 Feb 19 j 03:25	29°♑32'37		
	-1856 Feb 27 j 12:01	0°♒		
retrograde	-1856 May 23 j 19:08	2°♒39'07		
opposition	-1856 Aug 09 j 21:28	0°♒39'57	-0°46'10	
min. Earth dist.	-1856 Aug 08 j 23:06	0°♒42'12	19.12533 AU	
	-1856 Aug 26 j 19:18	30°℞♑		
direct	-1856 Oct 24 j 01:04	28°♑44'02		
	-1856 Dec 18 j 16:55	0°♒		
evening set	-1855 Jan 21 j 06:50	1°♒41'00		
conjunction	-1855 Feb 06 j 06:30	2°♒35'09	-0°42'25	
minimum elong	-1855 Feb 06 j 06:30	2°♒35'09	0°42'27	
max. Earth dist.	-1855 Feb 07 j 07:00	2°♒38'38	21.12017 AU	
morning rise	-1855 Feb 22 j 10:05	3°♒29'51		
retrograde	-1855 May 28 j 04:02	6°♒36'26		
min. Earth dist.	-1855 Aug 13 j 05:29	4°♒39'22	19.11443 AU	
opposition	-1855 Aug 14 j 03:39	4°♒37'08	-0°47'28	
direct	-1855 Oct 28 j 06:29	2°♒41'06		
evening set	-1854 Jan 25 j 11:54	5°♒38'07		
conjunction	-1854 Feb 10 j 12:23	6°♒32'23	-0°43'29	
minimum elong	-1854 Feb 10 j 12:23	6°♒32'23	0°43'30	
max. Earth dist.	-1854 Feb 11 j 10:55	6°♒35'35	21.10658 AU	
morning rise	-1854 Feb 26 j 17:06	7°♒27'12		
retrograde	-1854 Jun 01 j 10:44	10°♒33'54		
opposition	-1854 Aug 18 j 09:54	8°♒34'27	-0°48'33	
min. Earth dist.	-1854 Aug 17 j 13:51	8°♒36'28	19.09829 AU	
direct	-1854 Nov 01 j 10:07	6°♒38'16		
evening set	-1853 Jan 29 j 16:57	9°♒35'24		
conjunction	-1853 Feb 14 j 18:34	10°♒29'47	-0°44'21	
minimum elong	-1853 Feb 14 j 18:34	10°♒29'47	0°44'24	
max. Earth dist.	-1853 Feb 15 j 16:58	10°♒32'58	21.08806 AU	
morning rise	-1853 Mar 03 j 00:07	11°♒24'44		
retrograde	-1853 Jun 05 j 20:09	14°♒31'35		
opposition	-1853 Aug 22 j 15:52	12°♒31'59	-0°49'23	
min. Earth dist.	-1853 Aug 21 j 19:53	12°♒34'00	19.07745 AU	
direct	-1853 Nov 05 j 15:47	10°♒35'38		
evening set	-1852 Feb 02 j 22:37	13°♒32'59		
conjunction	-1852 Feb 19 j 01:04	14°♒27'30	-0°45'00	
minimum elong	-1852 Feb 19 j 01:04	14°♒27'30	0°45'02	
max. Earth dist.	-1852 Feb 19 j 21:34	14°♒30'25	21.06510 AU	
	-1852 Feb 28 j 14:10	15°♒		
morning rise	-1852 Mar 06 j 07:46	15°♒22'37		
retrograde	-1852 Jun 09 j 02:56	18°♒29'40		
opposition	-1852 Aug 25 j 21:51	16°♒29'54	-0°50'00	
min. Earth dist.	-1852 Aug 25 j 03:58	16°♒31'43	19.05254 AU	
	-1852 Oct 07 j 00:19	15°℞♒		
direct	-1852 Nov 08 j 18:46	14°♒33'22		
	-1852 Dec 11 j 00:54	15°♒		

Attention, astronomical year style is used: The year -1851 in astronomical counting style is the year 1852 BCE in historical counting style.

evening set	-1851 Feb 06 j 04:32	17°♒31'00	
conjunction	-1851 Feb 22 j 08:11	18°♒25'42	-0°45'27
minimum elong	-1851 Feb 22 j 08:11	18°♒25'42	0°45'29
max. Earth dist.	-1851 Feb 23 j 04:22	18°♒28'34	21.03832 AU
morning rise	-1851 Mar 10 j 15:45	19°♒20'58	
retrograde	-1851 Jun 13 j 12:42	22°♒28'15	
min. Earth dist.	-1851 Aug 29 j 09:57	20°♒30'11	19.02382 AU
opposition	-1851 Aug 30 j 03:42	20°♒28'22	-0°50'22
direct	-1851 Nov 13 j 00:58	18°♒31'39	
evening set	-1850 Feb 10 j 11:06	21°♒29'40	
conjunction	-1850 Feb 26 j 15:36	22°♒24'33	-0°45'40
minimum elong	-1850 Feb 26 j 15:36	22°♒24'33	0°45'42
max. Earth dist.	-1850 Feb 27 j 09:42	22°♒27'08	21.00778 AU
morning rise	-1850 Mar 15 j 00:16	23°♒20'00	
retrograde	-1850 Jun 17 j 20:09	26°♒27'35	
opposition	-1850 Sep 03 j 09:40	24°♒27'35	-0°50'30
min. Earth dist.	-1850 Sep 02 j 18:06	24°♒29'10	18.99159 AU
direct	-1850 Nov 17 j 03:57	22°♒30'40	
evening set	-1849 Feb 14 j 18:00	25°♒29'09	
conjunction	-1849 Mar 02 j 23:42	26°♒24'14	-0°45'41
minimum elong	-1849 Mar 02 j 23:42	26°♒24'14	0°45'41
max. Earth dist.	-1849 Mar 03 j 17:17	26°♒26'44	20.97396 AU
morning rise	-1849 Mar 19 j 09:13	27°♒19'52	
	-1849 May 19 j 05:49	0°♓	
retrograde	-1849 Jun 22 j 06:16	0°♓27'47	
	-1849 Jul 26 j 14:26	30°℞♒	
opposition	-1849 Sep 07 j 15:42	28°♒27'41	-0°50'24
min. Earth dist.	-1849 Sep 07 j 00:21	28°♒29'15	18.95603 AU
direct	-1849 Nov 21 j 10:17	26°♒30'36	
evening set	-1848 Feb 19 j 01:36	29°♒29'37	
	-1848 Feb 28 j 01:28	0°♓	
conjunction	-1848 Mar 06 j 08:13	0°♓24'55	-0°45'28
minimum elong	-1848 Mar 06 j 08:13	0°♓24'55	0°45'29
max. Earth dist.	-1848 Mar 06 j 23:37	0°♓27'06	20.93676 AU
morning rise	-1848 Mar 22 j 18:51	1°♓20'45	
retrograde	-1848 Jun 25 j 14:56	4°♓29'04	
opposition	-1848 Sep 10 j 22:05	2°♓28'52	-0°50'03
min. Earth dist.	-1848 Sep 10 j 09:08	2°♓30'12	18.91715 AU
direct	-1848 Nov 24 j 14:06	0°♓31'36	
evening set	-1847 Feb 22 j 09:54	3°♓31'14	
conjunction	-1847 Mar 10 j 17:44	4°♓26'46	-0°45'02
minimum elong	-1847 Mar 10 j 17:44	4°♓26'46	0°45'02
max. Earth dist.	-1847 Mar 11 j 08:15	4°♓28'51	20.89625 AU
morning rise	-1847 Mar 27 j 05:12	5°♓22'50	
retrograde	-1847 Jun 30 j 01:41	8°♓31'33	
opposition	-1847 Sep 15 j 04:25	6°♓31'17	-0°49'27
min. Earth dist.	-1847 Sep 14 j 16:02	6°♓32'34	18.87476 AU
direct	-1847 Nov 28 j 20:32	4°♓33'49	
evening set	-1846 Feb 26 j 19:09	7°♓34'10	
conjunction	-1846 Mar 15 j 03:53	8°♓29'56	-0°44'22
minimum elong	-1846 Mar 15 j 03:53	8°♓29'56	0°44'23
max. Earth dist.	-1846 Mar 15 j 15:53	8°♓31'39	20.85204 AU
morning rise	-1846 Mar 31 j 16:21	9°♓26'14	
retrograde	-1846 Jul 04 j 11:29	12°♓35'24	
opposition	-1846 Sep 19 j 11:21	10°♓35'04	-0°48'36
min. Earth dist.	-1846 Sep 19 j 01:42	10°♓36'04	18.82865 AU
direct	-1846 Dec 03 j 01:31	8°♓37'22	
evening set	-1845 Mar 03 j 04:55	11°♓38'29	
conjunction	-1845 Mar 19 j 14:47	12°♓34'31	-0°43'29
minimum elong	-1845 Mar 19 j 14:48	12°♓34'31	0°43'29
max. Earth dist.	-1845 Mar 20 j 01:33	12°♓36'03	20.80403 AU
morning rise	-1845 Apr 05 j 04:03	13°♓31'02	
retrograde	-1845 Jul 08 j 23:14	16°♓40'43	
opposition	-1845 Sep 23 j 18:32	14°♓40'16	-0°47'30
min. Earth dist.	-1845 Sep 23 j 09:42	14°♓41'11	18.77851 AU
direct	-1845 Dec 07 j 08:55	12°♓42'19	
evening set	-1844 Mar 06 j 15:52	15°♓44'16	
conjunction	-1844 Mar 23 j 02:39	16°♓40'34	-0°42'22
minimum elong	-1844 Mar 23 j 02:39	16°♓40'34	0°42'22
max. Earth dist.	-1844 Mar 23 j 10:35	16°♓41'42	20.75176 AU
morning rise	-1844 Apr 08 j 16:51	17°♓37'20	
retrograde	-1844 Jul 12 j 09:56	20°♓47'30	
opposition	-1844 Sep 27 j 02:10	18°♓46'56	-0°46'09
min. Earth dist.	-1844 Sep 26 j 20:21	18°♓47'33	18.72411 AU
direct	-1844 Dec 10 j 14:59	16°♓48'40	
evening set	-1843 Mar 11 j 03:32	19°♓51'30	
conjunction	-1843 Mar 27 j 15:27	20°♓48'04	-0°41'02
minimum elong	-1843 Mar 27 j 15:27	20°♓48'04	0°41'02
max. Earth dist.	-1843 Mar 27 j 21:36	20°♓48'57	20.69533 AU
morning rise	-1843 Apr 13 j 06:25	21°♓45'06	
retrograde	-1843 Jul 16 j 23:00	24°♓55'45	
opposition	-1843 Oct 01 j 10:08	22°♓55'02	-0°44'34
min. Earth dist.	-1843 Oct 01 j 05:20	22°♓55'32	18.66550 AU
direct	-1843 Dec 14 j 23:50	20°♓56'25	
evening set	-1842 Mar 15 j 16:05	24°♓00'10	
conjunction	-1842 Apr 01 j 04:51	24°♓57'02	-0°39'28
minimum elong	-1842 Apr 01 j 04:51	24°♓57'02	0°39'27
max. Earth dist.	-1842 Apr 01 j 08:10	24°♓57'30	20.63472 AU
morning rise	-1842 Apr 17 j 20:36	25°♓54'19	
retrograde	-1842 Jul 21 j 10:18	29°♓05'28	
opposition	-1842 Oct 05 j 18:36	27°♓04'35	-0°42'43
min. Earth dist.	-1842 Oct 05 j 16:45	27°♓04'47	18.60308 AU
direct	-1842 Dec 19 j 07:05	25°♓05'34	
evening set	-1841 Mar 20 j 05:19	28°♓10'17	
conjunction	-1841 Apr 05 j 19:08	29°♓07'26	-0°37'41
minimum elong	-1841 Apr 05 j 19:08	29°♓07'26	0°37'41
max. Earth dist.	-1841 Apr 05 j 20:37	29°♓07'39	20.57083 AU
	-1841 Apr 21 j 00:17	0°♈	
morning rise	-1841 Apr 22 j 11:35	0°♈05'00	
retrograde	-1841 Jul 26 j 00:27	3°♈16'40	
opposition	-1841 Oct 10 j 03:19	1°♈15'34	-0°40'38
min. Earth dist.	-1841 Oct 10 j 02:25	1°♈15'40	18.53769 AU
	-1841 Nov 11 j 14:27	30°℞♓	
direct	-1841 Dec 23 j 16:58	29°♓16'08	
	-1840 Feb 03 j 00:17	0°♈	
evening set	-1840 Mar 23 j 19:28	2°♈21'51	
conjunction	-1840 Apr 09 j 10:08	3°♈19'19	-0°35'41
minimum elong	-1840 Apr 09 j 10:08	3°♈19'19	0°35'40
max. Earth dist.	-1840 Apr 09 j 09:07	3°♈19'10	20.50415 AU
morning rise	-1840 Apr 26 j 03:18	4°♈17'10	
retrograde	-1840 Jul 29 j 13:00	7°♈29'21	
opposition	-1840 Oct 13 j 12:40	5°♈28'04	-0°38'19
min. Earth dist.	-1840 Oct 13 j 14:35	5°♈27'51	18.46992 AU
direct	-1840 Dec 27 j 01:36	3°♈28'12	
evening set	-1839 Mar 28 j 10:29	6°♈34'59	
conjunction	-1839 Apr 14 j 02:05	7°♈32'45	-0°33'29
minimum elong	-1839 Apr 14 j 02:05	7°♈32'46	0°33'29
max. Earth dist.	-1839 Apr 13 j 23:08	7°♈32'20	20.43560 AU
morning rise	-1839 Apr 30 j 19:50	8°♈30'52	
retrograde	-1839 Aug 03 j 04:00	11°♈43'36	
opposition	-1839 Oct 17 j 22:16	9°♈42'07	-0°35'47

Attention, astronomical year style is used: The year -1839 in astronomical counting style is the year 1840 BCE in historical counting style.

min. Earth dist.	-1839 Oct 18 j 01:03	9°♈41'49	18.40063 AU
direct	-1839 Dec 31 j 12:37	7°♈41'49	
evening set	-1838 Apr 02 j 02:27	10°♈49'45	
conjunction	-1838 Apr 18 j 18:47	11°♈47'50	-0°31'05
minimum elong	-1838 Apr 18 j 18:47	11°♈47'50	0°31'05
max. Earth dist.	-1838 Apr 18 j 13:43	11°♈47'06	20.36571 AU
morning rise	-1838 May 05 j 13:01	12°♈46'13	
retrograde	-1838 Aug 07 j 17:57	15°♈59'32	
opposition	-1838 Oct 22 j 08:42	13°♈57'52	-0°33'03
min. Earth dist.	-1838 Oct 22 j 14:00	13°♈57'18	18.33044 AU
direct	-1837 Jan 04 j 22:33	11°♈57'09	
evening set	-1837 Apr 06 j 19:05	15°♈06'15	
conjunction	-1837 Apr 23 j 12:11	16°♈04'39	-0°28'31
minimum elong	-1837 Apr 23 j 12:11	16°♈04'39	0°28'30
max. Earth dist.	-1837 Apr 23 j 05:11	16°♈03'37	20.29542 AU
morning rise	-1837 May 10 j 06:57	17°♈03'19	
retrograde	-1837 Aug 12 j 10:15	20°♈17'14	
opposition	-1837 Oct 26 j 19:37	18°♈15'24	-0°30'06
min. Earth dist.	-1837 Oct 27 j 01:39	18°♈14'46	18.26007 AU
direct	-1836 Jan 09 j 11:01	16°♈14'16	
evening set	-1836 Apr 10 j 12:55	19°♈24'36	
conjunction	-1836 Apr 27 j 06:43	20°♈23'20	-0°25'46
minimum elong	-1836 Apr 27 j 06:43	20°♈23'20	0°25'45
max. Earth dist.	-1836 Apr 26 j 21:56	20°♈22'03	20.22505 AU
morning rise	-1836 May 14 j 01:47	21°♈22'17	
retrograde	-1836 Aug 16 j 01:35	24°♈36'48	
opposition	-1836 Oct 30 j 07:14	22°♈34'52	-0°26'58
min. Earth dist.	-1836 Oct 30 j 15:38	22°♈33'58	18.18992 AU
direct	-1835 Jan 12 j 22:14	20°♈33'21	
evening set	-1835 Apr 15 j 07:45	23°♈44'58	
conjunction	-1835 May 02 j 02:08	24°♈44'01	-0°22'51
minimum elong	-1835 May 02 j 02:08	24°♈44'01	0°22'50
max. Earth dist.	-1835 May 01 j 15:07	24°♈42'24	20.15527 AU
morning rise	-1835 May 18 j 21:34	25°♈43'15	
retrograde	-1835 Aug 20 j 19:34	28°♈58'25	
opposition	-1835 Nov 03 j 19:32	26°♈56'23	-0°23'39
min. Earth dist.	-1835 Nov 04 j 04:43	26°♈55'24	18.12048 AU
direct	-1834 Jan 17 j 12:16	24°♈54'29	
evening set	-1834 Apr 20 j 03:27	28°♈07'27	
conjunction	-1834 May 06 j 22:22	29°♈06'49	-0°19'47
minimum elong	-1834 May 06 j 22:22	29°♈06'49	0°19'46
max. Earth dist.	-1834 May 06 j 09:58	29°♈04'59	20.08613 AU
	-1834 May 21 j 22:22	0°♉	
morning rise	-1834 May 23 j 17:53	0°♉06'19	
retrograde	-1834 Aug 25 j 12:31	3°♉22'08	
opposition	-1834 Nov 08 j 08:43	1°♉20'03	-0°20'10
min. Earth dist.	-1834 Nov 08 j 20:06	1°♉18'50	18.05179 AU
	-1834 Dec 12 j 05:12	30°℞♈	
direct	-1833 Jan 22 j 00:58	29°♈17'50	
	-1833 Mar 03 j 09:59	0°♉	
evening set	-1833 Apr 25 j 00:18	2°♉32'09	
conjunction	-1833 May 11 j 19:35	3°♉31'50	-0°16'34
minimum elong	-1833 May 11 j 19:35	3°♉31'50	0°16'33
max. Earth dist.	-1833 May 11 j 04:40	3°♉29'37	20.01798 AU
morning rise	-1833 May 28 j 15:20	4°♉31'36	
retrograde	-1833 Aug 30 j 07:50	7°♉48'05	
opposition	-1833 Nov 12 j 22:28	5°♉45'57	-0°16'32
min. Earth dist.	-1833 Nov 13 j 10:56	5°♉44'36	17.98405 AU
direct	-1832 Jan 26 j 16:48	3°♉43'23	
evening set	-1832 Apr 28 j 22:12	6°♉59'06	

conjunction	-1832 May 15 j 17:57	7°♉59'05	-0°13'14
minimum elong	-1832 May 15 j 17:57	7°♉59'05	0°13'12
behind sun begin	-1832 May 15 j 14:08	7°♉58'32	
behind sun end	-1832 May 15 j 21:46	7°♉59'39	
max. Earth dist.	-1832 May 15 j 01:44	7°♉56'40	19.95046 AU
morning rise	-1832 Jun 01 j 13:34	8°♉59'08	
retrograde	-1832 Sep 03 j 02:18	12°♉16'14	
opposition	-1832 Nov 16 j 13:16	10°♉14'05	-0°12'46
min. Earth dist.	-1832 Nov 17 j 03:58	10°♉12'30	17.91684 AU
direct	-1831 Jan 30 j 07:30	8°♉11'11	
evening set	-1831 May 03 j 21:15	11°♉28'17	
conjunction	-1831 May 20 j 17:05	12°♉28'34	-0°09'47
minimum elong	-1831 May 20 j 17:05	12°♉28'34	0°09'46
behind sun begin	-1831 May 20 j 11:35	12°♉27'45	
behind sun end	-1831 May 20 j 22:35	12°♉29'22	
max. Earth dist.	-1831 May 19 j 21:56	12°♉25'41	19.88356 AU
morning rise	-1831 Jun 06 j 12:44	13°♉28'50	
	-1831 Jul 04 j 06:52	15°♉	
retrograde	-1831 Sep 07 j 22:35	16°♉46'35	
	-1831 Nov 15 j 04:03	15°℞♉	
opposition	-1831 Nov 21 j 04:48	14°♉44'22	-0°08'53
min. Earth dist.	-1831 Nov 21 j 20:49	14°♉42'38	17.85031 AU
direct	-1830 Feb 04 j 02:03	12°♉41'07	
	-1830 Apr 21 j 08:18	15°♉	
evening set	-1830 May 08 j 21:04	15°♉59'35	
conjunction	-1830 May 25 j 17:11	17°♉00'08	-0°06'16
minimum elong	-1830 May 25 j 17:12	17°♉00'08	0°06'14
behind sun begin	-1830 May 25 j 10:46	16°♉59'12	
behind sun end	-1830 May 25 j 23:37	17°♉01'05	
max. Earth dist.	-1830 May 24 j 21:02	16°♉57'06	19.81726 AU
morning rise	-1830 Jun 11 j 12:28	18°♉00'39	
retrograde	-1830 Sep 12 j 17:47	21°♉18'58	
opposition	-1830 Nov 25 j 21:16	19°♉16'42	-0°04'55
min. Earth dist.	-1830 Nov 26 j 15:09	19°♉14'46	17.78446 AU
direct	-1829 Feb 08 j 19:18	17°♉13'04	
evening set	-1829 May 13 j 21:48	20°♉32'52	
conjunction	-1829 May 30 j 17:50	21°♉33'41	-0°02'40
minimum elong	-1829 May 30 j 17:50	21°♉33'41	0°02'38
behind sun begin	-1829 May 30 j 11:03	21°♉32'41	
behind sun end	-1829 May 31 j 00:37	21°♉34'41	
max. Earth dist.	-1829 May 29 j 18:44	21°♉30'11	19.75199 AU
morning rise	-1829 Jun 16 j 13:01	22°♉34'24	
retrograde	-1829 Sep 17 j 14:42	25°♉53'18	
opposition	-1829 Nov 30 j 14:30	23°♉50'56	-0°00'53
min. Earth dist.	-1829 Dec 01 j 09:46	23°♉48'51	17.71988 AU
direct	-1828 Feb 13 j 16:08	21°♉46'54	
asc. node	-1828 Feb 18 j 09:37	21°♉47'30	
evening set	-1828 May 17 j 23:20	25°♉08'00	
conjunction	-1828 Jun 03 j 19:29	26°♉09'05	0°01'05
minimum elong	-1828 Jun 03 j 19:30	26°♉09'05	0°01'07
behind sun begin	-1828 Jun 03 j 12:42	26°♉08'04	
behind sun end	-1828 Jun 04 j 02:17	26°♉10'05	
max. Earth dist.	-1828 Jun 02 j 19:47	26°♉05'28	19.68809 AU
morning rise	-1828 Jun 20 j 14:06	27°♉09'59	
	-1828 Aug 19 j 11:55	0°♊	
retrograde	-1828 Sep 21 j 11:08	0°♊29'22	
	-1828 Oct 24 j 20:16	30°℞♉	
opposition	-1828 Dec 04 j 08:26	28°♉26'57	0°03'11
min. Earth dist.	-1828 Dec 05 j 05:06	28°♉24'42	17.65693 AU
direct	-1827 Feb 17 j 12:23	26°♉22'31	
evening set	-1827 May 23 j 01:45	29°♉44'53	
	-1827 May 27 j 06:35	0°♊	

Attention, astronomical year style is used: The year -1827 in astronomical counting style is the year 1828 BCE in historical counting style.

conjunction	-1827 Jun	08 j 21:32	0°♊46'10	0°04'47
minimum elong	-1827 Jun	08 j 21:33	0°♊46'10	0°04'49
behind sun begin	-1827 Jun	08 j 14:56	0°♊45'11	
behind sun end	-1827 Jun	09 j 04:11	0°♊47'09	
max. Earth dist.	-1827 Jun	07 j 19:12	0°♊42'08	19.62633 AU
morning rise	-1827 Jun	25 j 15:49	1°♊47'15	
retrograde	-1827 Sep	26 j 08:32	5°♊07'08	
opposition	-1827 Dec	09 j 03:14	3°♊04'36	0°07'16
min. Earth dist.	-1827 Dec	10 j 01:13	3°♊02'12	17.59662 AU
direct	-1826 Feb	22 j 10:23	0°♊59'46	
evening set	-1826 May	28 j 04:25	4°♊23'20	
max. Earth dist.	-1826 Jun	12 j 21:46	5°♊20'47	19.56746 AU
conjunction	-1826 Jun	14 j 00:06	5°♊24'50	0°08'24
minimum elong	-1826 Jun	14 j 00:06	5°♊24'50	0°08'26
behind sun begin	-1826 Jun	13 j 18:11	5°♊23'57	
behind sun end	-1826 Jun	14 j 06:01	5°♊25'43	
morning rise	-1826 Jun	30 j 17:37	6°♊26'04	
retrograde	-1826 Oct	01 j 06:58	9°♊46'23	
opposition	-1826 Dec	13 j 22:44	7°♊43'46	0°11'18
min. Earth dist.	-1826 Dec	14 j 21:23	7°♊41'17	17.53945 AU
direct	-1825 Feb	27 j 08:48	5°♊38'34	
evening set	-1825 Jun	02 j 07:57	9°♊03'17	
max. Earth dist.	-1825 Jun	17 j 22:44	10°♊00'35	19.51217 AU
conjunction	-1825 Jun	19 j 03:07	10°♊04'57	0°12'00
minimum elong	-1825 Jun	19 j 03:06	10°♊04'57	0°12'03
behind sun begin	-1825 Jun	18 j 22:34	10°♊04'16	
behind sun end	-1825 Jun	19 j 07:38	10°♊05'38	
morning rise	-1825 Jul	05 j 20:04	11°♊06'20	
retrograde	-1825 Oct	06 j 04:56	14°♊27'03	
opposition	-1825 Dec	18 j 18:52	12°♊24'21	0°15'18
min. Earth dist.	-1825 Dec	19 j 18:47	12°♊21'44	17.48638 AU
direct	-1824 Mar	03 j 07:19	10°♊18'46	
evening set	-1824 Jun	06 j 11:53	13°♊44'37	
max. Earth dist.	-1824 Jun	22 j 02:37	14°♊42'05	19.46126 AU
conjunction	-1824 Jun	23 j 06:41	14°♊46'26	0°15'32
minimum elong	-1824 Jun	23 j 06:41	14°♊46'26	0°15'34
behind sun begin	-1824 Jun	23 j 05:32	14°♊46'16	
behind sun end	-1824 Jun	23 j 07:49	14°♊46'36	
morning rise	-1824 Jul	09 j 22:46	15°♊47'55	
retrograde	-1824 Oct	10 j 05:19	19°♊09'00	
opposition	-1824 Dec	22 j 15:50	17°♊06'15	0°19'12
min. Earth dist.	-1824 Dec	23 j 15:42	17°♊03'38	17.43786 AU
direct	-1823 Mar	08 j 07:22	15°♊00'22	
evening set	-1823 Jun	11 j 16:19	18°♊27'14	
max. Earth dist.	-1823 Jun	27 j 05:04	19°♊24'38	19.41524 AU
conjunction	-1823 Jun	28 j 10:22	19°♊29'11	0°18'59
minimum elong	-1823 Jun	28 j 10:22	19°♊29'11	0°19'01
morning rise	-1823 Jul	15 j 01:37	20°♊30'46	
retrograde	-1823 Oct	15 j 03:47	23°♊52'12	
opposition	-1823 Dec	27 j 13:36	21°♊49'26	0°22'59
min. Earth dist.	-1823 Dec	28 j 14:29	21°♊46'42	17.39473 AU
direct	-1822 Mar	13 j 06:45	19°♊43'16	
evening set	-1822 Jun	16 j 21:02	23°♊11'08	
max. Earth dist.	-1822 Jul	02 j 09:39	24°♊08'41	19.37495 AU
conjunction	-1822 Jul	03 j 14:28	24°♊13'10	0°22'19
minimum elong	-1822 Jul	03 j 14:28	24°♊13'10	0°22'21
morning rise	-1822 Jul	20 j 04:45	25°♊14'48	
retrograde	-1822 Oct	20 j 05:02	28°♊36'33	
opposition	-1821 Jan	01 j 11:55	26°♊33'49	0°26'39
min. Earth dist.	-1821 Jan	02 j 12:07	26°♊31'10	17.35735 AU
direct	-1821 Mar	18 j 08:04	24°♊27'28	
evening set	-1821 Jun	22 j 02:10	27°♊56'13	

conjunction	-1821 Jul	08 j 18:48	28°♊58'21	0°25'31
minimum elong	-1821 Jul	08 j 18:48	28°♊58'21	0°25'33
max. Earth dist.	-1821 Jul	07 j 13:32	28°♊53'46	19.34051 AU
morning rise	-1821 Jul	25 j 08:04	0°♋00'01	
	-1821 Jul	25 j 07:59	0°♋	
retrograde	-1821 Oct	25 j 04:15	3°♋22'04	
opposition	-1820 Jan	06 j 11:07	1°♋19'23	0°30'08
min. Earth dist.	-1820 Jan	07 j 12:16	1°♋16'37	17.32596 AU
	-1820 Feb	08 j 02:34	30°℞♊	
direct	-1820 Mar	22 j 08:45	29°♊12'53	
	-1820 May	03 j 22:43	0°♋	
evening set	-1820 Jun	26 j 07:37	2°♋42'29	
conjunction	-1820 Jul	12 j 23:21	3°♋44'39	0°28'33
minimum elong	-1820 Jul	12 j 23:21	3°♋44'39	0°28'36
max. Earth dist.	-1820 Jul	11 j 18:21	3°♋40'06	19.31207 AU
morning rise	-1820 Jul	29 j 11:34	4°♋46'19	
retrograde	-1820 Oct	29 j 06:01	8°♋08'37	
opposition	-1819 Jan	10 j 10:49	6°♋06'02	0°33'26
min. Earth dist.	-1819 Jan	11 j 11:01	6°♋03'23	17.30036 AU
direct	-1819 Mar	27 j 11:49	3°♋59'27	
evening set	-1819 Jul	01 j 13:17	7°♋29'47	
max. Earth dist.	-1819 Jul	16 j 23:27	8°♋27'28	19.28926 AU
conjunction	-1819 Jul	18 j 04:04	8°♋31'58	0°31'25
minimum elong	-1819 Jul	18 j 04:04	8°♋31'58	0°31'27
morning rise	-1819 Aug	03 j 15:03	9°♋33'37	
retrograde	-1819 Nov	03 j 05:44	12°♋56'08	
opposition	-1818 Jan	15 j 11:26	10°♋53'39	0°36'31
min. Earth dist.	-1818 Jan	16 j 12:30	10°♋50'55	17.28043 AU
direct	-1818 Apr	01 j 13:45	8°♋47'02	
evening set	-1818 Jul	06 j 18:53	12°♋17'57	
max. Earth dist.	-1818 Jul	22 j 03:56	13°♋15'36	19.27203 AU
conjunction	-1818 Jul	23 j 08:34	13°♋20'07	0°34'04
minimum elong	-1818 Jul	23 j 08:34	13°♋20'07	0°34'06
morning rise	-1818 Aug	08 j 18:30	14°♋21'44	
retrograde	-1818 Nov	08 j 07:47	17°♋44'24	
opposition	-1817 Jan	20 j 12:26	15°♋42'02	0°39'21
min. Earth dist.	-1817 Jan	21 j 12:19	15°♋39'25	17.26579 AU
direct	-1817 Apr	06 j 18:25	13°♋35'22	
evening set	-1817 Jul	12 j 00:36	17°♋06'47	
max. Earth dist.	-1817 Jul	27 j 09:41	18°♋04'33	19.25987 AU
conjunction	-1817 Jul	28 j 13:17	18°♋08'54	0°36'29
minimum elong	-1817 Jul	28 j 13:17	18°♋08'54	0°36'31
morning rise	-1817 Aug	13 j 21:51	19°♋10'26	
retrograde	-1817 Nov	13 j 07:41	22°♋33'12	
opposition	-1816 Jan	25 j 14:02	20°♋30'56	0°41'55
min. Earth dist.	-1816 Jan	26 j 14:37	20°♋28'15	17.25620 AU
direct	-1816 Apr	10 j 22:03	18°♋24'15	
evening set	-1816 Jul	16 j 06:19	21°♋56'01	
conjunction	-1816 Aug	01 j 17:41	22°♋58'03	0°38'38
minimum elong	-1816 Aug	01 j 17:41	22°♋58'03	0°38'39
max. Earth dist.	-1816 Jul	31 j 13:48	22°♋53'38	19.25282 AU
morning rise	-1816 Aug	18 j 01:08	23°♋59'30	
retrograde	-1816 Nov	17 j 09:19	27°♋22'17	
opposition	-1815 Jan	29 j 16:02	25°♋20'06	0°44'10
min. Earth dist.	-1815 Jan	30 j 15:13	25°♋17'34	17.25165 AU
direct	-1815 Apr	16 j 03:47	23°♋13'25	
evening set	-1815 Jul	21 j 11:28	26°♋45'23	
conjunction	-1815 Aug	06 j 21:47	27°♋47'19	0°40'31
minimum elong	-1815 Aug	06 j 21:47	27°♋47'19	0°40'34
max. Earth dist.	-1815 Aug	05 j 19:42	27°♋43'11	19.25073 AU
morning rise	-1815 Aug	23 j 03:47	28°♋48'38	

Attention, astronomical year style is used: The year -1815 in astronomical counting style is the year 1816 BCE in historical counting style.

	-1815 Sep 12 j 07:42	0°♌	
retrograde	-1815 Nov 22 j 09:23	2°♌11'23	
opposition	-1814 Feb 03 j 18:32	0°♌09'17	0°46'07
min. Earth dist.	-1814 Feb 04 j 17:48	0°♌06'45	17.25209 AU
	-1814 Feb 07 j 07:54	30°℞♋	
direct	-1814 Apr 21 j 08:29	28°♋02'38	
	-1814 Jun 29 j 07:28	0°♌	
evening set	-1814 Jul 26 j 16:29	1°♌34'39	
max. Earth dist.	-1814 Aug 10 j 23:14	2°♌32'17	19.25384 AU
conjunction	-1814 Aug 12 j 01:24	2°♌36'26	0°42'07
minimum elong	-1814 Aug 12 j 01:24	2°♌36'26	0°42'08
morning rise	-1814 Aug 28 j 06:20	3°♌37'37	
retrograde	-1814 Nov 27 j 10:39	7°♌00'16	
opposition	-1813 Feb 08 j 20:56	4°♌58'13	0°47'45
min. Earth dist.	-1813 Feb 09 j 18:43	4°♌55'51	17.25784 AU
direct	-1813 Apr 26 j 14:14	2°♌51'35	
evening set	-1813 Jul 31 j 20:51	6°♌23'33	
max. Earth dist.	-1813 Aug 16 j 04:52	7°♌21'23	19.26224 AU
conjunction	-1813 Aug 17 j 04:43	7°♌25'10	0°43'25
minimum elong	-1813 Aug 17 j 04:43	7°♌25'10	0°43'27
morning rise	-1813 Sep 02 j 08:14	8°♌26'12	
retrograde	-1813 Dec 02 j 10:44	11°♌48'38	
opposition	-1812 Feb 13 j 23:45	9°♌46'40	0°49'01
min. Earth dist.	-1812 Feb 14 j 20:58	9°♌44'22	17.26888 AU
direct	-1812 Apr 30 j 18:37	7°♌40'06	
evening set	-1812 Aug 05 j 00:45	11°♌11'50	
max. Earth dist.	-1812 Aug 20 j 07:41	12°♌09'33	19.27616 AU
conjunction	-1812 Aug 21 j 07:09	12°♌13'16	0°44'24
minimum elong	-1812 Aug 21 j 07:09	12°♌13'16	0°44'27
morning rise	-1812 Sep 06 j 09:35	13°♌14'06	
	-1812 Oct 07 j 11:19	15°♌	
retrograde	-1812 Dec 06 j 11:48	16°♌36'19	
	-1811 Feb 08 j 03:43	15°℞♌	
opposition	-1811 Feb 18 j 02:34	14°♌34'23	0°49'57
min. Earth dist.	-1811 Feb 18 j 22:08	14°♌32'16	17.28572 AU
direct	-1811 May 05 j 23:43	12°♌27'54	
	-1811 Jul 24 j 14:04	15°♌	
evening set	-1811 Aug 10 j 03:45	15°♌59'17	
conjunction	-1811 Aug 26 j 09:03	17°♌00'30	0°45'05
minimum elong	-1811 Aug 26 j 09:03	17°♌00'30	0°45'06
max. Earth dist.	-1811 Aug 25 j 12:26	16°♌57'14	19.29598 AU
morning rise	-1811 Sep 11 j 10:09	18°♌01'08	
retrograde	-1811 Dec 11 j 11:39	21°♌23'04	
opposition	-1810 Feb 23 j 05:24	19°♌21'11	0°50'31
min. Earth dist.	-1810 Feb 23 j 23:29	19°♌19'14	17.30850 AU
direct	-1810 May 11 j 03:32	17°♌14'51	
evening set	-1810 Aug 15 j 06:04	20°♌45'44	
conjunction	-1810 Aug 31 j 09:59	21°♌46'43	0°45'27
minimum elong	-1810 Aug 31 j 09:59	21°♌46'43	0°45'28
max. Earth dist.	-1810 Aug 30 j 14:23	21°♌43'37	19.32191 AU
morning rise	-1810 Sep 16 j 10:02	22°♌47'08	
retrograde	-1810 Dec 16 j 11:50	26°♌08'44	
opposition	-1809 Feb 28 j 08:07	24°♌06'55	0°50'45
min. Earth dist.	-1809 Mar 01 j 00:31	24°♌05'10	17.33761 AU
direct	-1809 May 16 j 07:59	22°♌00'45	
evening set	-1809 Aug 20 j 07:34	25°♌31'04	
conjunction	-1809 Sep 05 j 10:20	26°♌31'48	0°45'30
minimum elong	-1809 Sep 05 j 10:20	26°♌31'48	0°45'30
max. Earth dist.	-1809 Sep 04 j 17:39	26°♌29'10	19.35418 AU
morning rise	-1809 Sep 21 j 09:09	27°♌31'58	
	-1809 Nov 07 j 09:05	0°♍	
retrograde	-1809 Dec 21 j 10:44	0°♍53'12	
	-1808 Feb 05 j 03:56	30°℞♌	
opposition	-1808 Mar 04 j 10:39	28°♌51'30	0°50'37
min. Earth dist.	-1808 Mar 05 j 00:49	28°♌49'59	17.37286 AU
direct	-1808 May 20 j 12:15	26°♌45'36	
	-1808 Aug 20 j 04:55	0°♍	
evening set	-1808 Aug 24 j 08:23	0°♍15'13	
conjunction	-1808 Sep 09 j 09:50	1°♍15'42	0°45'14
minimum elong	-1808 Sep 09 j 09:50	1°♍15'42	0°45'15
max. Earth dist.	-1808 Sep 08 j 18:44	1°♍13'18	19.39261 AU
morning rise	-1808 Sep 25 j 07:36	2°♍15'37	
retrograde	-1808 Dec 25 j 09:21	5°♍36'27	
opposition	-1807 Mar 09 j 13:10	3°♍34'53	0°50'09
min. Earth dist.	-1807 Mar 10 j 01:45	3°♍33'33	17.41431 AU
direct	-1807 May 25 j 15:52	1°♍29'18	
evening set	-1807 Aug 29 j 08:05	4°♍58'08	
conjunction	-1807 Sep 14 j 08:26	5°♍58'19	0°44'41
minimum elong	-1807 Sep 14 j 08:26	5°♍58'19	0°44'42
max. Earth dist.	-1807 Sep 13 j 20:05	5°♍56'22	19.43697 AU
morning rise	-1807 Sep 30 j 05:10	6°♍57'58	
retrograde	-1807 Dec 30 j 07:41	10°♍18'24	
opposition	-1806 Mar 14 j 15:21	8°♍17'00	0°49'22
min. Earth dist.	-1806 Mar 15 j 01:14	8°♍15'57	17.46117 AU
direct	-1806 May 30 j 20:09	6°♍11'46	
evening set	-1806 Sep 03 j 07:08	9°♍39'43	
conjunction	-1806 Sep 19 j 06:19	10°♍39'37	0°43'50
minimum elong	-1806 Sep 19 j 06:19	10°♍39'37	0°43'50
max. Earth dist.	-1806 Sep 18 j 19:58	10°♍37'59	19.48637 AU
morning rise	-1806 Oct 05 j 02:06	11°♍39'00	
retrograde	-1805 Jan 04 j 04:34	14°♍58'58	
opposition	-1805 Mar 19 j 17:11	12°♍57'45	0°48'14
min. Earth dist.	-1805 Mar 20 j 01:56	12°♍56'49	17.51288 AU
direct	-1805 Jun 04 j 22:27	10°♍52'53	
evening set	-1805 Sep 08 j 05:18	14°♍19'54	
conjunction	-1805 Sep 24 j 03:23	15°♍19'29	0°42'41
minimum elong	-1805 Sep 24 j 03:23	15°♍19'29	0°42'43
max. Earth dist.	-1805 Sep 23 j 19:13	15°♍18'12	19.54024 AU
morning rise	-1805 Oct 09 j 22:18	16°♍18'36	
retrograde	-1804 Jan 09 j 02:23	19°♍38'04	
opposition	-1804 Mar 23 j 18:46	17°♍37'01	0°46'48
min. Earth dist.	-1804 Mar 24 j 00:41	17°♍36'24	17.56852 AU
direct	-1804 Jun 09 j 01:55	15°♍32'34	
evening set	-1804 Sep 12 j 02:29	18°♍58'31	
conjunction	-1804 Sep 27 j 23:31	19°♍57'48	0°41'17
minimum elong	-1804 Sep 27 j 23:31	19°♍57'48	0°41'17
max. Earth dist.	-1804 Sep 27 j 17:42	19°♍56'53	19.59759 AU
morning rise	-1804 Oct 13 j 17:32	20°♍56'38	
retrograde	-1803 Jan 12 j 22:06	24°♍15'35	
opposition	-1803 Mar 28 j 20:08	22°♍14'43	0°45'04
min. Earth dist.	-1803 Mar 29 j 01:03	22°♍14'12	17.62746 AU
direct	-1803 Jun 14 j 02:25	20°♍10'39	
evening set	-1803 Sep 16 j 22:48	23°♍35'29	
conjunction	-1803 Oct 02 j 18:49	24°♍34'26	0°39'36
minimum elong	-1803 Oct 02 j 18:49	24°♍34'26	0°39'37
max. Earth dist.	-1803 Oct 02 j 14:41	24°♍33'47	19.65797 AU
morning rise	-1803 Oct 18 j 12:10	25°♍33'00	
retrograde	-1802 Jan 17 j 19:16	28°♍51'23	
opposition	-1802 Apr 02 j 20:43	26°♍50'39	0°43'03
min. Earth dist.	-1802 Apr 02 j 22:43	26°♍50'26	17.68896 AU
direct	-1802 Jun 19 j 04:22	24°♍46'59	
evening set	-1802 Sep 21 j 18:05	28°♍10'37	

Attention, astronomical year style is used: The year -1802 in astronomical counting style is the year 1803 BCE in historical counting style.

conjunction	-1802 Oct 07 j 13:17	29°♍09'16	0°37'41
minimum elong	-1802 Oct 07 j 13:17	29°♍09'16	0°37'41
max. Earth dist.	-1802 Oct 07 j 11:38	29°♍09'01	19.72047 AU
	-1802 Oct 21 j 04:27	0°♎	
morning rise	-1802 Oct 23 j 05:53	0°♎07'33	
retrograde	-1801 Jan 22 j 13:41	3°♎25'20	
opposition	-1801 Apr 07 j 20:59	1°♎24'45	0°40'47
min. Earth dist.	-1801 Apr 07 j 22:10	1°♎24'38	17.75236 AU
	-1801 May 15 j 04:47	30°℞♍	
direct	-1801 Jun 24 j 03:21	29°♍21'29	
	-1801 Aug 01 j 21:58	0°♎	
evening set	-1801 Sep 26 j 12:26	2°♎43'52	
conjunction	-1801 Oct 12 j 06:40	3°♎42'10	0°35'33
minimum elong	-1801 Oct 12 j 06:40	3°♎42'10	0°35'32
max. Earth dist.	-1801 Oct 12 j 06:19	3°♎42'07	19.78469 AU
morning rise	-1801 Oct 27 j 22:46	4°♎40'10	
retrograde	-1800 Jan 27 j 09:34	7°♎57'21	
opposition	-1800 Apr 11 j 20:29	5°♎56'53	0°38'15
min. Earth dist.	-1800 Apr 11 j 18:42	5°♎57'04	17.81718 AU
direct	-1800 Jun 28 j 03:39	3°♎53'59	
evening set	-1800 Sep 30 j 05:40	7°♎15'04	
conjunction	-1800 Oct 15 j 23:14	8°♎13'04	0°33'12
minimum elong	-1800 Oct 15 j 23:15	8°♎13'04	0°33'12
max. Earth dist.	-1800 Oct 16 j 01:41	8°♎13'27	19.85014 AU
morning rise	-1800 Oct 31 j 14:43	9°♎10'47	
retrograde	-1799 Jan 31 j 02:47	12°♎27'20	
opposition	-1799 Apr 16 j 19:31	10°♎26'57	0°35'31
min. Earth dist.	-1799 Apr 16 j 16:48	10°♎27'13	17.88321 AU
direct	-1799 Jul 03 j 01:21	8°♎24'25	
evening set	-1799 Oct 04 j 21:48	11°♎44'09	
conjunction	-1799 Oct 20 j 14:36	12°♎41'50	0°30'39
minimum elong	-1799 Oct 20 j 14:36	12°♎41'50	0°30'38
max. Earth dist.	-1799 Oct 20 j 18:15	12°♎42'23	19.91680 AU
morning rise	-1799 Nov 05 j 05:50	13°♎39'17	
retrograde	-1798 Feb 04 j 20:59	16°♎55'10	
opposition	-1798 Apr 21 j 17:35	14°♎54'51	0°32'35
min. Earth dist.	-1798 Apr 21 j 11:57	14°♎55'26	17.95036 AU
direct	-1798 Jul 07 j 23:31	12°♎52'41	
evening set	-1798 Oct 09 j 12:52	16°♎11'03	
conjunction	-1798 Oct 25 j 05:10	17°♎08'26	0°27'57
minimum elong	-1798 Oct 25 j 05:10	17°♎08'26	0°27'57
max. Earth dist.	-1798 Oct 25 j 11:52	17°♎09'27	19.98445 AU
morning rise	-1798 Nov 09 j 19:54	18°♎05'36	
retrograde	-1797 Feb 09 j 12:47	21°♎20'50	
opposition	-1797 Apr 26 j 14:55	19°♎20'35	0°29'29
min. Earth dist.	-1797 Apr 26 j 08:09	19°♎21'17	18.01857 AU
direct	-1797 Jul 12 j 19:58	17°♎18'47	
evening set	-1797 Oct 14 j 03:03	20°♎35'47	
conjunction	-1797 Oct 29 j 18:38	21°♎32'51	0°25'07
minimum elong	-1797 Oct 29 j 18:39	21°♎32'51	0°25'05
max. Earth dist.	-1797 Oct 30 j 02:32	21°♎34'03	20.05336 AU
morning rise	-1797 Nov 14 j 09:16	22°♎29'46	
retrograde	-1796 Feb 14 j 05:34	25°♎44'21	
opposition	-1796 Apr 30 j 11:31	23°♎44'10	0°26'15
min. Earth dist.	-1796 Apr 30 j 01:46	23°♎45'10	18.08816 AU
direct	-1796 Jul 16 j 15:40	21°♎42'45	
evening set	-1796 Oct 17 j 15:59	24°♎58'23	
conjunction	-1796 Nov 02 j 07:15	25°♎55'09	0°22'09
minimum elong	-1796 Nov 02 j 07:15	25°♎55'09	0°22'08
max. Earth dist.	-1796 Nov 02 j 18:26	25°♎56'51	20.12352 AU
morning rise	-1796 Nov 17 j 21:31	26°♎51'49	
	-1795 Feb 02 j 23:55	0°♏	
retrograde	-1795 Feb 17 j 20:16	0°♏05'46	
	-1795 Mar 04 j 20:49	30°℞♎	
opposition	-1795 May 05 j 07:26	28°♎05'41	0°22'53
min. Earth dist.	-1795 May 04 j 20:11	28°♎06'50	18.15891 AU
direct	-1795 Jul 21 j 10:58	26°♎04'42	
evening set	-1795 Oct 22 j 04:17	29°♎18'58	
	-1795 Nov 02 j 13:17	0°♏	
conjunction	-1795 Nov 06 j 18:59	0°♏15'28	0°19'05
minimum elong	-1795 Nov 06 j 18:59	0°♏15'28	0°19'04
max. Earth dist.	-1795 Nov 07 j 07:12	0°♏17'18	20.19485 AU
morning rise	-1795 Nov 22 j 09:19	1°♏11'53	
retrograde	-1794 Feb 22 j 11:46	4°♏25'13	
opposition	-1794 May 10 j 02:16	2°♏25'15	0°19'25
min. Earth dist.	-1794 May 09 j 12:25	2°♏26'40	18.23072 AU
direct	-1794 Jul 26 j 04:18	0°♏24'41	
evening set	-1794 Oct 26 j 15:31	3°♏37'41	
conjunction	-1794 Nov 11 j 06:05	4°♏33'53	0°15'56
minimum elong	-1794 Nov 11 j 06:05	4°♏33'53	0°15'55
behind sun begin	-1794 Nov 11 j 04:38	4°♏33'41	
behind sun end	-1794 Nov 11 j 07:31	4°♏34'06	
max. Earth dist.	-1794 Nov 11 j 21:20	4°♏36'11	20.26688 AU
morning rise	-1794 Nov 26 j 20:13	5°♏30'05	
retrograde	-1793 Feb 27 j 01:20	8°♏42'49	
opposition	-1793 May 14 j 20:32	6°♏43'01	0°15'52
min. Earth dist.	-1793 May 14 j 05:14	6°♏44'34	18.30283 AU
direct	-1793 Jul 30 j 22:03	4°♏42'55	
evening set	-1793 Oct 31 j 02:01	7°♏54'36	
conjunction	-1793 Nov 15 j 16:09	8°♏50'33	0°12'44
minimum elong	-1793 Nov 15 j 16:09	8°♏50'33	0°12'43
behind sun begin	-1793 Nov 15 j 11:56	8°♏49'56	
behind sun end	-1793 Nov 15 j 20:22	8°♏51'10	
max. Earth dist.	-1793 Nov 16 j 08:13	8°♏52'58	20.33900 AU
morning rise	-1793 Dec 01 j 06:29	9°♏46'31	
retrograde	-1792 Mar 02 j 15:41	12°♏58'42	
opposition	-1792 May 18 j 14:06	10°♏59'02	0°12'16
min. Earth dist.	-1792 May 17 j 20:39	11°♏00'49	18.37481 AU
direct	-1792 Aug 03 j 13:35	8°♏59'23	
evening set	-1792 Nov 03 j 11:42	12°♏09'50	
conjunction	-1792 Nov 19 j 01:50	13°♏05'32	0°09'28
minimum elong	-1792 Nov 19 j 01:49	13°♏05'32	0°09'26
behind sun begin	-1792 Nov 18 j 20:20	13°♏04'44	
behind sun end	-1792 Nov 19 j 07:19	13°♏06'20	
max. Earth dist.	-1792 Nov 19 j 20:41	13°♏08'22	20.41053 AU
morning rise	-1792 Dec 04 j 16:06	14°♏01'18	
	-1792 Dec 22 j 01:54	15°♏	
retrograde	-1791 Mar 07 j 03:52	17°♏12'55	
opposition	-1791 May 23 j 06:52	15°♏13'26	0°08'36
min. Earth dist.	-1791 May 22 j 12:08	15°♏15'19	18.44575 AU
	-1791 May 28 j 20:01	15°℞♏	
direct	-1791 Aug 08 j 05:30	13°♏14'13	
	-1791 Oct 13 j 07:39	15°♏	
evening set	-1791 Nov 07 j 20:49	16°♏23'27	
conjunction	-1791 Nov 23 j 10:41	17°♏18'54	0°06'11
minimum elong	-1791 Nov 23 j 10:41	17°♏18'54	0°06'10
behind sun begin	-1791 Nov 23 j 04:28	17°♏18'00	
behind sun end	-1791 Nov 23 j 16:53	17°♏19'48	
max. Earth dist.	-1791 Nov 24 j 05:57	17°♏21'47	20.48072 AU
morning rise	-1791 Dec 09 j 01:20	18°♏14'28	
retrograde	-1790 Mar 11 j 17:18	21°♏25'35	
opposition	-1790 May 27 j 22:55	19°♏26'13	0°04'56
min. Earth dist.	-1790 May 27 j 02:44	19°♏28'15	18.51507 AU

Attention, astronomical year style is used: The year -1790 in astronomical counting style is the year 1791 BCE in historical counting style.

direct	-1790 Aug 12 j 19:02	17°♏27'25	
evening set	-1790 Nov 12 j 05:11	20°♏35'28	
conjunction	-1790 Nov 27 j 19:09	21°♏30'42	0°02'52
minimum elong	-1790 Nov 27 j 19:09	21°♏30'43	0°02'50
behind sun begin	-1790 Nov 27 j 12:39	21°♏29'46	
behind sun end	-1790 Nov 28 j 01:40	21°♏31'39	
max. Earth dist.	-1790 Nov 28 j 16:47	21°♏33'55	20.54876 AU
morning rise	-1790 Dec 13 j 09:50	22°♏26'05	
retrograde	-1789 Mar 16 j 03:56	25°♏36'40	
opposition	-1789 Jun 01 j 14:13	23°♏37'27	0°01'15
min. Earth dist.	-1789 May 31 j 16:55	23°♏39'35	18.58176 AU
direct	-1789 Aug 17 j 09:10	21°♏39'02	
desc. node	-1789 Oct 04 j 17:13	22°♏37'30	
evening set	-1789 Nov 16 j 13:10	24°♏45'57	
conjunction	-1789 Dec 02 j 03:00	25°♏40'58	-0°00'33
minimum elong	-1789 Dec 02 j 02:59	25°♏40'58	0°00'35
behind sun begin	-1789 Dec 01 j 20:28	25°♏40'02	
behind sun end	-1789 Dec 02 j 09:29	25°♏41'54	
max. Earth dist.	-1789 Dec 03 j 00:38	25°♏44'10	20.61399 AU
morning rise	-1789 Dec 17 j 18:08	26°♏36'10	
retrograde	-1788 Mar 19 j 16:06	29°♏46'16	
min. Earth dist.	-1788 Jun 04 j 06:45	27°♏49'22	18.64548 AU
opposition	-1788 Jun 05 j 04:57	27°♏47'08	-0°02'26
direct	-1788 Aug 20 j 20:55	25°♏49'04	
evening set	-1788 Nov 19 j 20:18	28°♏54'52	
conjunction	-1788 Dec 05 j 10:25	29°♏49'42	-0°03'54
minimum elong	-1788 Dec 05 j 10:25	29°♏49'42	0°03'55
behind sun begin	-1788 Dec 05 j 03:57	29°♏48'47	
behind sun end	-1788 Dec 05 j 16:52	29°♏50'38	
max. Earth dist.	-1788 Dec 06 j 10:04	29°♏53'12	20.67582 AU
	-1788 Dec 08 j 08:05	0°♐	
morning rise	-1788 Dec 21 j 01:47	0°♐44'45	
retrograde	-1787 Mar 24 j 02:07	3°♐54'21	
opposition	-1787 Jun 09 j 18:53	1°♐55'18	-0°06'04
min. Earth dist.	-1787 Jun 08 j 19:42	1°♐57'37	18.70537 AU
	-1787 Aug 15 j 10:48	30°℞♏	
direct	-1787 Aug 25 j 09:41	29°♏57'32	
	-1787 Sep 04 j 04:28	0°♐	
evening set	-1787 Nov 24 j 03:10	3°♐02'16	
conjunction	-1787 Dec 09 j 17:18	3°♐56'54	-0°07'08
minimum elong	-1787 Dec 09 j 17:18	3°♐56'54	0°07'11
behind sun begin	-1787 Dec 09 j 11:16	3°♐56'02	
behind sun end	-1787 Dec 09 j 23:20	3°♐57'46	
max. Earth dist.	-1787 Dec 10 j 16:39	4°♐00'20	20.73372 AU
morning rise	-1787 Dec 25 j 09:16	4°♐51'48	
retrograde	-1786 Mar 28 j 12:33	8°♐00'55	
min. Earth dist.	-1786 Jun 13 j 08:24	6°♐04'15	18.76135 AU
opposition	-1786 Jun 14 j 07:57	6°♐01'54	-0°09'39
direct	-1786 Aug 29 j 19:28	4°♐04'22	
evening set	-1786 Nov 28 j 09:14	7°♐08'05	
conjunction	-1786 Dec 13 j 23:47	8°♐02'34	-0°10'20
minimum elong	-1786 Dec 13 j 23:47	8°♐02'34	0°10'21
behind sun begin	-1786 Dec 13 j 18:35	8°♐01'50	
behind sun end	-1786 Dec 14 j 04:59	8°♐03'19	
max. Earth dist.	-1786 Dec 15 j 00:55	8°♐06'15	20.78763 AU
morning rise	-1786 Dec 29 j 16:05	8°♐57'20	
retrograde	-1785 Apr 01 j 21:59	12°♐05'59	
opposition	-1785 Jun 18 j 20:20	10°♐06'57	-0°13'09
min. Earth dist.	-1785 Jun 17 j 19:48	10°♐09'24	18.81323 AU
direct	-1785 Sep 03 j 07:05	8°♐09'39	
evening set	-1785 Dec 02 j 14:49	11°♐12'23	

conjunction	-1785 Dec 18 j 05:30	12°♐06'42	-0°13'27
minimum elong	-1785 Dec 18 j 05:29	12°♐06'42	0°13'30
behind sun begin	-1785 Dec 18 j 01:43	12°♐06'10	
behind sun end	-1785 Dec 18 j 09:16	12°♐07'15	
max. Earth dist.	-1785 Dec 19 j 06:25	12°♐10'21	20.83762 AU
morning rise	-1784 Jan 02 j 22:31	13°♐01'21	
retrograde	-1784 Apr 05 j 07:13	16°♐09'35	
min. Earth dist.	-1784 Jun 21 j 07:22	14°♐13'00	18.86153 AU
opposition	-1784 Jun 22 j 08:08	14°♐10'32	-0°16'34
direct	-1784 Sep 06 j 15:24	12°♐13'24	
evening set	-1784 Dec 05 j 19:50	15°♐15'13	
conjunction	-1784 Dec 21 j 11:04	16°♐09'25	-0°16'29
minimum elong	-1784 Dec 21 j 11:04	16°♐09'25	0°16'31
max. Earth dist.	-1784 Dec 22 j 13:49	16°♐13'18	20.88411 AU
morning rise	-1783 Jan 06 j 04:31	17°♐03'57	
retrograde	-1783 Apr 09 j 16:02	20°♐11'46	
opposition	-1783 Jun 26 j 18:57	18°♐12'42	-0°19'53
min. Earth dist.	-1783 Jun 25 j 17:06	18°♐15'17	18.90636 AU
direct	-1783 Sep 11 j 01:20	16°♐15'46	
evening set	-1783 Dec 10 j 00:38	19°♐16'44	
conjunction	-1783 Dec 25 j 16:07	20°♐10'49	-0°19'26
minimum elong	-1783 Dec 25 j 16:07	20°♐10'49	0°19'28
max. Earth dist.	-1783 Dec 26 j 18:32	20°♐14'39	20.92730 AU
morning rise	-1782 Jan 10 j 10:23	21°♐05'17	
retrograde	-1782 Apr 14 j 00:32	24°♐12'44	
min. Earth dist.	-1782 Jun 30 j 03:26	22°♐16'14	18.94810 AU
opposition	-1782 Jul 01 j 05:19	22°♐13'39	-0°23'04
direct	-1782 Sep 15 j 08:25	20°♐16'53	
evening set	-1782 Dec 14 j 04:51	23°♐17'06	
conjunction	-1782 Dec 29 j 20:58	24°♐11'06	-0°22'16
minimum elong	-1782 Dec 29 j 20:58	24°♐11'06	0°22'18
max. Earth dist.	-1782 Dec 31 j 01:00	24°♐15'09	20.96737 AU
morning rise	-1781 Jan 14 j 15:43	25°♐05'29	
retrograde	-1781 Apr 18 j 08:55	28°♐12'38	
min. Earth dist.	-1781 Jul 04 j 11:58	26°♐16'17	18.98655 AU
opposition	-1781 Jul 05 j 14:58	26°♐13'35	-0°26'08
direct	-1781 Sep 19 j 16:32	24°♐17'00	
evening set	-1781 Dec 18 j 09:03	27°♐16'32	
conjunction	-1780 Jan 03 j 01:32	28°♐10'27	-0°24'59
minimum elong	-1780 Jan 03 j 01:31	28°♐10'27	0°25'00
max. Earth dist.	-1780 Jan 04 j 05:03	28°♐14'26	21.00421 AU
morning rise	-1780 Jan 18 j 21:11	29°♐04'48	
	-1780 Feb 04 j 21:07	0°♑	
retrograde	-1780 Apr 21 j 17:04	2°♑11'43	
min. Earth dist.	-1780 Jul 07 j 21:31	0°♑15'20	19.02182 AU
opposition	-1780 Jul 09 j 00:15	0°♑12'41	-0°29'04
	-1780 Jul 14 j 07:34	30°℞♐	
direct	-1780 Sep 22 j 22:29	28°♐16'16	
	-1780 Nov 27 j 18:08	0°♑	
evening set	-1780 Dec 21 j 12:50	1°♑15'13	
conjunction	-1779 Jan 06 j 06:07	2°♑09'06	-0°27'34
minimum elong	-1779 Jan 06 j 06:06	2°♑09'06	0°27'37
max. Earth dist.	-1779 Jan 07 j 10:58	2°♑13'15	21.03767 AU
morning rise	-1779 Jan 22 j 02:24	3°♑03'24	
retrograde	-1779 Apr 26 j 01:33	6°♑10'07	
min. Earth dist.	-1779 Jul 12 j 05:21	4°♑13'52	19.05334 AU
opposition	-1779 Jul 13 j 08:54	4°♑11'07	-0°31'51
direct	-1779 Sep 27 j 05:10	2°♑14'54	
evening set	-1779 Dec 25 j 16:48	5°♑13'21	
conjunction	-1778 Jan 10 j 10:31	6°♑07'11	-0°30'01
minimum elong	-1778 Jan 10 j 10:31	6°♑07'11	0°30'03

Attention, astronomical year style is used: The year -1778 in astronomical counting style is the year 1779 BCE in historical counting style.

max. Earth dist.	-1778 Jan 11 j 14:29	6°♉11'11	21.06719 AU	
morning rise	-1778 Jan 26 j 07:46	7°♉01'29		
retrograde	-1778 Apr 30 j 09:17	10°♉08'03		
opposition	-1778 Jul 17 j 17:08	8°♉09'06	-0°34'28	
min. Earth dist.	-1778 Jul 16 j 14:24	8°♉11'46	19.08085 AU	
direct	-1778 Oct 01 j 10:02	6°♉13'02		
evening set	-1778 Dec 29 j 20:31	9°♉11'04		
conjunction	-1777 Jan 14 j 15:06	10°♉04'53	-0°32'20	
minimum elong	-1777 Jan 14 j 15:06	10°♉04'53	0°32'22	
max. Earth dist.	-1777 Jan 15 j 20:02	10°♉09'01	21.09248 AU	
morning rise	-1777 Jan 30 j 13:01	10°♉59'11		
retrograde	-1777 May 04 j 18:05	14°♉05'38		
min. Earth dist.	-1777 Jul 20 j 21:47	12°♉09'27	19.10376 AU	
opposition	-1777 Jul 22 j 01:00	12°♉06'44	-0°36'56	
direct	-1777 Oct 05 j 16:11	10°♉10'50		
evening set	-1776 Jan 03 j 00:23	13°♉08'30		
conjunction	-1776 Jan 18 j 19:31	14°♉02'19	-0°34'29	
minimum elong	-1776 Jan 18 j 19:31	14°♉02'19	0°34'30	
max. Earth dist.	-1776 Jan 19 j 23:14	14°♉06'17	21.11292 AU	
morning rise	-1776 Feb 03 j 18:28	14°♉56'39		
retrograde	-1776 May 08 j 01:40	18°♉03'04		
min. Earth dist.	-1776 Jul 24 j 06:49	16°♉06'46	19.12169 AU	
opposition	-1776 Jul 25 j 08:43	16°♉04'11	-0°39'13	
direct	-1776 Oct 08 j 20:08	14°♉08'23		
evening set	-1775 Jan 06 j 04:21	17°♉05'47		
conjunction	-1775 Jan 22 j 00:26	17°♉59'37	-0°36'28	
minimum elong	-1775 Jan 22 j 00:26	17°♉59'37	0°36'30	
max. Earth dist.	-1775 Jan 23 j 04:36	18°♉03'39	21.12807 AU	
morning rise	-1775 Feb 07 j 00:07	18°♉53'59		
retrograde	-1775 May 12 j 10:51	22°♉00'21		
opposition	-1775 Jul 29 j 15:48	20°♉01'29	-0°41'19	
min. Earth dist.	-1775 Jul 28 j 13:54	20°♉04'04	19.13392 AU	
direct	-1775 Oct 13 j 02:15	18°♉05'45		
evening set	-1774 Jan 10 j 08:37	21°♉02'57		
conjunction	-1774 Jan 26 j 05:22	21°♉56'50	-0°38'17	
minimum elong	-1774 Jan 26 j 05:22	21°♉56'50	0°38'18	
max. Earth dist.	-1774 Jan 27 j 07:43	22°♉00'35	21.13731 AU	
morning rise	-1774 Feb 11 j 06:07	22°♉51'15		
retrograde	-1774 May 16 j 18:03	25°♉57'37		
opposition	-1774 Aug 02 j 22:55	23°♉58'43	-0°43'13	
min. Earth dist.	-1774 Aug 01 j 22:45	24°♉01'08	19.14018 AU	
direct	-1774 Oct 17 j 05:35	22°♉02'59		
evening set	-1773 Jan 14 j 12:43	25°♉00'01		
conjunction	-1773 Jan 30 j 10:29	25°♉53'58	-0°39'55	
minimum elong	-1773 Jan 30 j 10:29	25°♉53'58	0°39'56	
max. Earth dist.	-1773 Jan 31 j 12:56	25°♉57'44	21.14048 AU	
morning rise	-1773 Feb 15 j 12:00	26°♉48'27		
retrograde	-1773 May 21 j 02:54	29°♉54'50		
min. Earth dist.	-1773 Aug 06 j 05:35	27°♉58'16	19.14021 AU	
opposition	-1773 Aug 07 j 05:40	27°♉55'51	-0°44'54	
direct	-1773 Oct 21 j 12:02	26°♉00'05		
evening set	-1772 Jan 18 j 17:15	28°♉57'01		
conjunction	-1772 Feb 03 j 15:45	29°♉51'02	-0°41'21	
minimum elong	-1772 Feb 03 j 15:45	29°♉51'02	0°41'23	
max. Earth dist.	-1772 Feb 04 j 16:15	29°♉54'31	21.13759 AU	
	-1772 Feb 06 j 06:43	0°♒		
morning rise	-1772 Feb 19 j 18:25	0°♒45'37		
retrograde	-1772 May 24 j 10:11	3°♒52'03		
opposition	-1772 Aug 10 j 12:13	1°♒52'56	-0°46'23	
min. Earth dist.	-1772 Aug 09 j 14:03	1°♒55'09	19.13449 AU	
	-1772 Oct 13 j 23:44	30°℞♉		
direct	-1772 Oct 24 j 15:17	29°♉57'04		
	-1772 Nov 04 j 08:12	0°♒		
evening set	-1771 Jan 21 j 21:45	2°♒53'58		
conjunction	-1771 Feb 06 j 21:23	3°♒48'04	-0°42'35	
minimum elong	-1771 Feb 06 j 21:23	3°♒48'04	0°42'36	
max. Earth dist.	-1771 Feb 07 j 21:51	3°♒51'33	21.12914 AU	
morning rise	-1771 Feb 23 j 00:54	4°♒42'45		
retrograde	-1771 May 28 j 18:18	7°♒49'14		
opposition	-1771 Aug 14 j 18:22	5°♒49'59	-0°47'38	
min. Earth dist.	-1771 Aug 13 j 20:20	5°♒52'12	19.12332 AU	
direct	-1771 Oct 28 j 21:31	3°♒54'00		
evening set	-1770 Jan 26 j 02:40	6°♒50'55		
conjunction	-1770 Feb 11 j 03:03	7°♒45'08	-0°43'36	
minimum elong	-1770 Feb 11 j 03:03	7°♒45'08	0°43'39	
max. Earth dist.	-1770 Feb 12 j 01:34	7°♒48'20	21.11550 AU	
morning rise	-1770 Feb 27 j 07:41	8°♒39'56		
retrograde	-1770 Jun 02 j 01:54	11°♒46'31		
min. Earth dist.	-1770 Aug 18 j 04:18	9°♒49'09	19.10741 AU	
opposition	-1770 Aug 19 j 00:25	9°♒47'07	-0°48'39	
direct	-1770 Nov 02 j 00:48	7°♒50'58		
evening set	-1769 Jan 30 j 07:41	10°♒48'01		
conjunction	-1769 Feb 15 j 09:12	11°♒42'22	-0°44'26	
minimum elong	-1769 Feb 15 j 09:12	11°♒42'22	0°44'27	
max. Earth dist.	-1769 Feb 16 j 07:43	11°♒45'34	21.09744 AU	
morning rise	-1769 Mar 03 j 14:40	12°♒37'17		
	-1769 Apr 24 j 03:08	15°♒		
retrograde	-1769 Jun 06 j 09:48	15°♒44'01		
	-1769 Jul 20 j 11:51	15°℞♒		
min. Earth dist.	-1769 Aug 22 j 10:09	13°♒46'30	19.08723 AU	
opposition	-1769 Aug 23 j 06:15	13°♒44'28	-0°49'27	
direct	-1769 Nov 06 j 06:15	11°♒48'09		
evening set	-1768 Feb 03 j 13:07	14°♒45'24		
	-1768 Feb 07 j 21:49	15°♒		
conjunction	-1768 Feb 19 j 15:30	15°♒39'53	-0°45'02	
minimum elong	-1768 Feb 19 j 15:30	15°♒39'53	0°45'04	
max. Earth dist.	-1768 Feb 20 j 12:02	15°♒42'48	21.07529 AU	
morning rise	-1768 Mar 06 j 22:08	16°♒34'57		
retrograde	-1768 Jun 09 j 17:39	19°♒41'53		
opposition	-1768 Aug 26 j 12:12	17°♒42'11	-0°50'01	
min. Earth dist.	-1768 Aug 25 j 18:03	17°♒44'01	19.06318 AU	
direct	-1768 Nov 09 j 09:52	15°♒45'42		
evening set	-1767 Feb 06 j 18:59	18°♒43'14		
conjunction	-1767 Feb 22 j 22:33	19°♒37'53	-0°45'26	
minimum elong	-1767 Feb 22 j 22:33	19°♒37'53	0°45'27	
max. Earth dist.	-1767 Feb 23 j 18:53	19°♒40'47	21.04941 AU	
morning rise	-1767 Mar 11 j 06:02	20°♒33'07		
retrograde	-1767 Jun 14 j 02:18	23°♒40'16		
opposition	-1767 Aug 30 j 17:51	21°♒40'27	-0°50'20	
min. Earth dist.	-1767 Aug 29 j 23:54	21°♒42'17	19.03540 AU	
direct	-1767 Nov 13 j 14:56	19°♒43'48		
evening set	-1766 Feb 11 j 01:27	22°♒41'42		
conjunction	-1766 Feb 27 j 05:54	23°♒36'32	-0°45'37	
minimum elong	-1766 Feb 27 j 05:54	23°♒36'32	0°45'38	
max. Earth dist.	-1766 Feb 28 j 00:05	23°♒39'07	21.01986 AU	
morning rise	-1766 Mar 15 j 14:30	24°♒31'57		
retrograde	-1766 Jun 18 j 10:16	27°♒39'24		
opposition	-1766 Sep 03 j 23:54	25°♒39'28	-0°50'25	
min. Earth dist.	-1766 Sep 03 j 08:04	25°♒41'05	19.00409 AU	
direct	-1766 Nov 17 j 18:44	23°♒42'38		
evening set	-1765 Feb 15 j 08:10	26°♒40'59		

Attention, astronomical year style is used: The year -1765 in astronomical counting style is the year 1766 BCE in historical counting style.

conjunction	-1765 Mar 03 j 13:49	27°♒36'02	-0°45'35
minimum elong	-1765 Mar 03 j 13:49	27°♒36'02	0°45'36
max. Earth dist.	-1765 Mar 04 j 07:41	27°♒38'34	20.98685 AU
morning rise	-1765 Mar 19 j 23:17	28°♒31'37	
	-1765 Apr 17 j 13:59	0°♓	
retrograde	-1765 Jun 22 j 20:21	1°♓39'25	
	-1765 Aug 30 j 19:26	30°℞♒	
opposition	-1765 Sep 08 j 05:57	29°♒39'23	-0°50'16
min. Earth dist.	-1765 Sep 07 j 14:28	29°♒40'58	18.96919 AU
direct	-1765 Nov 22 j 00:18	27°♒42'23	
	-1764 Feb 06 j 22:28	0°♓	
evening set	-1764 Feb 19 j 15:54	0°♓41'17	
conjunction	-1764 Mar 06 j 22:27	1°♓36'32	-0°45'20
minimum elong	-1764 Mar 06 j 22:27	1°♓36'32	0°45'20
max. Earth dist.	-1764 Mar 07 j 13:56	1°♓38'44	20.95015 AU
morning rise	-1764 Mar 23 j 09:01	2°♓32'20	
retrograde	-1764 Jun 26 j 04:53	5°♓40'30	
opposition	-1764 Sep 11 j 12:14	3°♓40'24	-0°49'52
min. Earth dist.	-1764 Sep 10 j 23:18	3°♓41'44	18.93060 AU
direct	-1764 Nov 25 j 04:10	1°♓43'12	
evening set	-1763 Feb 23 j 00:13	4°♓42'44	
conjunction	-1763 Mar 11 j 07:59	5°♓38'13	-0°44'51
minimum elong	-1763 Mar 11 j 07:59	5°♓38'13	0°44'52
max. Earth dist.	-1763 Mar 11 j 22:37	5°♓40'18	20.90966 AU
morning rise	-1763 Mar 27 j 19:22	6°♓34'14	
retrograde	-1763 Jun 30 j 16:18	9°♓42'50	
opposition	-1763 Sep 15 j 18:42	7°♓42'39	-0°49'13
min. Earth dist.	-1763 Sep 15 j 06:29	7°♓43'54	18.88796 AU
direct	-1763 Nov 29 j 10:49	5°♓45'15	
evening set	-1762 Feb 27 j 09:25	8°♓45'28	
conjunction	-1762 Mar 15 j 18:02	9°♓41'12	-0°44'09
minimum elong	-1762 Mar 15 j 18:02	9°♓41'12	0°44'09
max. Earth dist.	-1762 Mar 16 j 05:53	9°♓42'53	20.86485 AU
morning rise	-1762 Apr 01 j 06:25	10°♓37'26	
retrograde	-1762 Jul 05 j 01:30	13°♓46'30	
opposition	-1762 Sep 20 j 01:38	11°♓46'13	-0°48'19
min. Earth dist.	-1762 Sep 19 j 16:14	11°♓47'11	18.84097 AU
direct	-1762 Dec 03 j 15:21	9°♓48'34	
evening set	-1761 Mar 03 j 19:17	12°♓49'34	
conjunction	-1761 Mar 20 j 05:05	13°♓45'33	-0°43'13
minimum elong	-1761 Mar 20 j 05:06	13°♓45'33	0°43'13
max. Earth dist.	-1761 Mar 20 j 15:36	13°♓47'03	20.81569 AU
morning rise	-1761 Apr 05 j 18:16	14°♓42'02	
retrograde	-1761 Jul 09 j 13:51	17°♓51'33	
opposition	-1761 Sep 24 j 08:44	15°♓51'09	-0°47'10
min. Earth dist.	-1761 Sep 24 j 00:16	15°♓52'02	18.78944 AU
direct	-1761 Dec 07 j 23:19	13°♓53'14	
evening set	-1760 Mar 07 j 06:05	16°♓55'02	
conjunction	-1760 Mar 23 j 16:48	17°♓51'17	-0°42'03
minimum elong	-1760 Mar 23 j 16:48	17°♓51'17	0°42'03
max. Earth dist.	-1760 Mar 24 j 00:15	17°♓52'21	20.76189 AU
morning rise	-1760 Apr 09 j 06:58	18°♓48'01	
retrograde	-1760 Jul 12 j 23:52	21°♓58'02	
opposition	-1760 Sep 27 j 16:24	19°♓57'29	-0°45'47
min. Earth dist.	-1760 Sep 27 j 10:54	19°♓58'03	18.73339 AU
direct	-1760 Dec 11 j 05:12	17°♓59'13	
evening set	-1759 Mar 11 j 17:35	21°♓01'53	
conjunction	-1759 Mar 28 j 05:27	21°♓58'25	-0°40'40
minimum elong	-1759 Mar 28 j 05:27	21°♓58'25	0°40'39
max. Earth dist.	-1759 Mar 28 j 11:16	21°♓59'15	20.70382 AU
morning rise	-1759 Apr 13 j 20:19	22°♓55'25	
retrograde	-1759 Jul 17 j 12:46	26°♓05'55	
opposition	-1759 Oct 02 j 00:06	24°♓05'11	-0°44'08
min. Earth dist.	-1759 Oct 01 j 19:35	24°♓05'40	18.67326 AU
direct	-1759 Dec 15 j 14:13	22°♓06'34	
evening set	-1758 Mar 16 j 05:57	25°♓10'09	
conjunction	-1758 Apr 01 j 18:40	26°♓06'58	-0°39'03
minimum elong	-1758 Apr 01 j 18:40	26°♓06'58	0°39'04
max. Earth dist.	-1758 Apr 01 j 21:36	26°♓07'23	20.64192 AU
morning rise	-1758 Apr 18 j 10:23	27°♓04'14	
	-1758 Jun 27 j 08:55	0°♈	
retrograde	-1758 Jul 21 j 23:42	0°♈15'14	
	-1758 Aug 15 j 20:35	30°℞♓	
opposition	-1758 Oct 06 j 08:28	28°♓14'19	-0°42'15
min. Earth dist.	-1758 Oct 06 j 06:46	28°♓14'30	18.60977 AU
direct	-1758 Dec 19 j 21:21	26°♓15'18	
evening set	-1757 Mar 20 j 18:50	29°♓19'50	
	-1757 Apr 01 j 11:28	0°♈	
conjunction	-1757 Apr 06 j 08:37	0°♈16'58	-0°37'14
minimum elong	-1757 Apr 06 j 08:38	0°♈16'58	0°37'13
max. Earth dist.	-1757 Apr 06 j 10:05	0°♈17'11	20.57714 AU
morning rise	-1757 Apr 23 j 01:03	1°♈14'30	
retrograde	-1757 Jul 26 j 13:31	4°♈26'03	
opposition	-1757 Oct 10 j 17:04	2°♈24'55	-0°40'08
min. Earth dist.	-1757 Oct 10 j 16:11	2°♈25'01	18.54368 AU
direct	-1757 Dec 24 j 07:21	0°♈25'29	
evening set	-1756 Mar 24 j 08:53	3°♈31'04	
conjunction	-1756 Apr 09 j 23:29	4°♈28'30	-0°35'13
minimum elong	-1756 Apr 09 j 23:29	4°♈28'30	0°35'13
max. Earth dist.	-1756 Apr 09 j 22:21	4°♈28'20	20.50996 AU
morning rise	-1756 Apr 26 j 16:37	5°♈26'18	
retrograde	-1756 Jul 30 j 01:36	8°♈38'24	
opposition	-1756 Oct 14 j 02:10	6°♈37'05	-0°37'47
min. Earth dist.	-1756 Oct 14 j 04:03	6°♈36'53	18.47565 AU
direct	-1756 Dec 27 j 15:29	4°♈37'13	
evening set	-1755 Mar 28 j 23:42	7°♈43'54	
conjunction	-1755 Apr 14 j 15:14	8°♈41'39	-0°32'59
minimum elong	-1755 Apr 14 j 15:14	8°♈41'39	0°32'58
max. Earth dist.	-1755 Apr 14 j 12:29	8°♈41'15	20.44131 AU
morning rise	-1755 May 01 j 08:56	9°♈39'44	
retrograde	-1755 Aug 03 j 17:00	12°♈52'23	
opposition	-1755 Oct 18 j 11:46	10°♈50'54	-0°35'14
min. Earth dist.	-1755 Oct 18 j 14:20	10°♈50'37	18.40641 AU
direct	-1754 Jan 01 j 02:41	8°♈50'37	
evening set	-1754 Apr 02 j 15:20	11°♈58'26	
conjunction	-1754 Apr 19 j 07:35	12°♈56'30	-0°30'34
minimum elong	-1754 Apr 19 j 07:35	12°♈56'30	0°30'34
max. Earth dist.	-1754 Apr 19 j 02:39	12°♈55'47	20.37159 AU
morning rise	-1754 May 06 j 01:47	13°♈54'52	
retrograde	-1754 Aug 08 j 06:17	17°♈08'07	
opposition	-1754 Oct 22 j 22:05	15°♈06'28	-0°32'27
min. Earth dist.	-1754 Oct 23 j 03:09	15°♈05'56	18.33649 AU
direct	-1753 Jan 05 j 11:55	13°♈05'47	
evening set	-1753 Apr 07 j 07:57	16°♈14'48	
conjunction	-1753 Apr 24 j 01:00	17°♈13'11	-0°27'58
minimum elong	-1753 Apr 24 j 01:00	17°♈13'11	0°27'58
max. Earth dist.	-1753 Apr 23 j 18:18	17°♈12'12	20.30165 AU
morning rise	-1753 May 10 j 19:41	18°♈11'50	
retrograde	-1753 Aug 12 j 23:21	21°♈25'42	
opposition	-1753 Oct 27 j 08:48	19°♈23'55	-0°29'30
min. Earth dist.	-1753 Oct 27 j 14:33	19°♈23'18	18.26650 AU
direct	-1752 Jan 10 j 00:15	17°♈22'51	

Attention, astronomical year style is used: The year -1752 in astronomical counting style is the year 1753 BCE in historical counting style.

evening set	-1752 Apr 11 j 01:41	20°♈33'07	
conjunction	-1752 Apr 27 j 19:24	21°♈31'49	-0°25'12
minimum elong	-1752 Apr 27 j 19:25	21°♈31'49	0°25'11
max. Earth dist.	-1752 Apr 27 j 10:43	21°♈30'33	20.23165 AU
morning rise	-1752 May 14 j 14:27	22°♈30'45	
retrograde	-1752 Aug 16 j 14:29	25°♈45'15	
opposition	-1752 Oct 30 j 20:26	23°♈43'22	-0°26'20
min. Earth dist.	-1752 Oct 31 j 04:41	23°♈42'29	18.19663 AU
direct	-1751 Jan 13 j 11:12	21°♈41'55	
evening set	-1751 Apr 15 j 20:23	24°♈53'30	
conjunction	-1751 May 02 j 14:41	25°♈52'31	-0°22'16
minimum elong	-1751 May 02 j 14:41	25°♈52'31	0°22'16
max. Earth dist.	-1751 May 02 j 03:57	25°♈50'56	20.16202 AU
morning rise	-1751 May 19 j 10:03	26°♈51'44	
	-1751 Aug 05 j 03:26	0°♉	
retrograde	-1751 Aug 21 j 08:42	0°♉06'53	
	-1751 Sep 06 j 13:00	30°℞♈	
opposition	-1751 Nov 04 j 08:36	28°♈04'55	-0°23'00
min. Earth dist.	-1751 Nov 04 j 17:41	28°♈03'57	18.12715 AU
direct	-1750 Jan 18 j 00:55	26°♈03'07	
evening set	-1750 Apr 20 j 16:10	29°♈16'02	
	-1750 May 03 j 03:28	0°♉	
conjunction	-1750 May 07 j 11:01	0°♉15'23	-0°19'11
minimum elong	-1750 May 07 j 11:01	0°♉15'23	0°19'10
max. Earth dist.	-1750 May 06 j 22:34	0°♉13'32	20.09264 AU
morning rise	-1750 May 24 j 06:29	1°♉14'52	
retrograde	-1750 Aug 26 j 01:34	4°♉30'40	
opposition	-1750 Nov 08 j 21:43	2°♉28'39	-0°19'30
min. Earth dist.	-1750 Nov 09 j 09:19	2°♉27'24	18.05796 AU
direct	-1749 Jan 22 j 13:55	0°♉26'30	
evening set	-1749 Apr 25 j 12:56	3°♉40'46	
conjunction	-1749 May 12 j 08:12	4°♉40'25	-0°15'58
minimum elong	-1749 May 12 j 08:12	4°♉40'25	0°15'56
max. Earth dist.	-1749 May 11 j 17:17	4°♉38'12	20.02364 AU
morning rise	-1749 May 29 j 03:56	5°♉40'11	
retrograde	-1749 Aug 30 j 20:50	8°♉56'38	
opposition	-1749 Nov 13 j 11:34	6°♉54'33	-0°15'51
min. Earth dist.	-1749 Nov 14 j 00:15	6°♉53'11	17.98901 AU
direct	-1748 Jan 27 j 05:34	4°♉52'02	
evening set	-1748 Apr 29 j 10:55	8°♉07'40	
conjunction	-1748 May 16 j 06:37	9°♉07'39	-0°12'37
minimum elong	-1748 May 16 j 06:36	9°♉07'38	0°12'35
behind sun begin	-1748 May 16 j 02:24	9°♉07'02	
behind sun end	-1748 May 16 j 10:49	9°♉08'15	
max. Earth dist.	-1748 May 15 j 14:04	9°♉05'10	19.95458 AU
morning rise	-1748 Jun 02 j 02:11	10°♉07'39	
retrograde	-1748 Sep 03 j 15:03	13°♉24'44	
opposition	-1748 Nov 17 j 02:18	11°♉22'34	-0°12'05
min. Earth dist.	-1748 Nov 17 j 17:26	11°♉20'56	17.92005 AU
direct	-1747 Jan 30 j 21:18	9°♉19'40	
evening set	-1747 May 04 j 09:55	12°♉36'41	
max. Earth dist.	-1747 May 20 j 10:19	13°♉34'01	19.88579 AU
conjunction	-1747 May 21 j 05:45	13°♉36'56	-0°09'10
minimum elong	-1747 May 21 j 05:44	13°♉36'56	0°09'08
behind sun begin	-1747 May 21 j 00:02	13°♉36'06	
behind sun end	-1747 May 21 j 11:27	13°♉37'46	
morning rise	-1747 Jun 07 j 01:22	14°♉37'12	
	-1747 Jun 13 j 14:34	15°♉	
retrograde	-1747 Sep 08 j 10:49	17°♉54'53	
opposition	-1747 Nov 21 j 17:52	15°♉52'38	-0°08'12
min. Earth dist.	-1747 Nov 22 j 10:08	15°♉50'52	17.85150 AU
	-1747 Dec 12 j 16:06	15°℞♉	
direct	-1746 Feb 04 j 15:01	13°♉49'19	
	-1746 Mar 29 j 10:06	15°♉	
evening set	-1746 May 09 j 09:31	17°♉07'40	
max. Earth dist.	-1746 May 25 j 09:08	18°♉05'07	19.81745 AU
conjunction	-1746 May 26 j 05:38	18°♉08'13	-0°05'39
minimum elong	-1746 May 26 j 05:38	18°♉08'13	0°05'38
behind sun begin	-1746 May 25 j 23:07	18°♉07'15	
behind sun end	-1746 May 26 j 12:09	18°♉09'10	
morning rise	-1746 Jun 12 j 00:55	19°♉08'42	
retrograde	-1746 Sep 13 j 06:28	22°♉26'58	
opposition	-1746 Nov 26 j 10:18	20°♉24'36	-0°04'14
min. Earth dist.	-1746 Nov 27 j 04:32	20°♉22'38	17.78363 AU
direct	-1745 Feb 09 j 09:20	18°♉20'54	
evening set	-1745 May 14 j 10:15	21°♉40'34	
max. Earth dist.	-1745 May 30 j 06:56	22°♉37'50	19.75027 AU
conjunction	-1745 May 31 j 06:18	22°♉41'22	-0°02'03
minimum elong	-1745 May 31 j 06:17	22°♉41'22	0°02'01
behind sun begin	-1745 May 30 j 23:30	22°♉40'22	
behind sun end	-1745 May 31 j 13:05	22°♉42'22	
morning rise	-1745 Jun 17 j 01:28	23°♉42'05	
retrograde	-1745 Sep 18 j 02:42	27°♉00'53	
opposition	-1745 Dec 01 j 03:17	24°♉58'25	-0°00'12
min. Earth dist.	-1745 Dec 01 j 22:43	24°♉56'18	17.71733 AU
asc. node	-1745 Dec 19 j 21:06	24°♉10'44	
direct	-1744 Feb 14 j 05:01	22°♉54'16	
evening set	-1744 May 18 j 11:41	26°♉15'16	
max. Earth dist.	-1744 Jun 03 j 07:56	27°♉12'41	19.68485 AU
conjunction	-1744 Jun 04 j 07:50	27°♉16'19	0°01'42
minimum elong	-1744 Jun 04 j 07:50	27°♉16'19	0°01'43
behind sun begin	-1744 Jun 04 j 01:02	27°♉15'19	
behind sun end	-1744 Jun 04 j 14:38	27°♉17'19	
morning rise	-1744 Jun 21 j 02:27	28°♉17'13	
	-1744 Jul 22 j 10:09	0°♊	
retrograde	-1744 Sep 21 j 23:41	1°♊36'32	
	-1744 Nov 24 j 20:46	30°℞♉	
opposition	-1744 Dec 04 j 21:13	29°♉33'59	0°03'51
min. Earth dist.	-1744 Dec 05 j 18:05	29°♉31'42	17.65310 AU
direct	-1743 Feb 18 j 01:23	27°♉29'26	
	-1743 May 08 j 15:50	0°♊	
evening set	-1743 May 23 j 13:51	0°♊51'41	
max. Earth dist.	-1743 Jun 08 j 07:17	1°♊48'56	19.62203 AU
conjunction	-1743 Jun 09 j 09:39	1°♊52'58	0°05'21
minimum elong	-1743 Jun 09 j 09:38	1°♊52'58	0°05'23
behind sun begin	-1743 Jun 09 j 03:05	1°♊51'59	
behind sun end	-1743 Jun 09 j 16:11	1°♊53'56	
morning rise	-1743 Jun 26 j 03:55	2°♊54'03	
retrograde	-1743 Sep 26 j 20:44	6°♊13'52	
opposition	-1743 Dec 09 j 15:51	4°♊11'12	0°07'53
min. Earth dist.	-1743 Dec 10 j 13:45	4°♊08'49	17.59199 AU
direct	-1742 Feb 22 j 22:55	2°♊06'15	
evening set	-1742 May 28 j 16:31	5°♊29'45	
max. Earth dist.	-1742 Jun 13 j 09:58	6°♊27'12	19.56262 AU
conjunction	-1742 Jun 14 j 12:13	6°♊31'14	0°08'57
minimum elong	-1742 Jun 14 j 12:13	6°♊31'14	0°08'59
behind sun begin	-1742 Jun 14 j 06:27	6°♊30'22	
behind sun end	-1742 Jun 14 j 17:58	6°♊32'06	
morning rise	-1742 Jul 01 j 05:46	7°♊32'28	
retrograde	-1742 Oct 01 j 18:54	10°♊52'45	
opposition	-1742 Dec 14 j 11:12	8°♊50'01	0°11'55
min. Earth dist.	-1742 Dec 15 j 09:50	8°♊47'33	17.53458 AU
direct	-1741 Feb 27 j 21:08	6°♊44'43	

Attention, astronomical year style is used: The year -1741 in astronomical counting style is the year 1742 BCE in historical counting style.

evening set	-1741 Jun	02 j 19:57	10°♊09'23	
max. Earth dist.	-1741 Jun	18 j 10:52	11°♊06'42	19.50735 AU
conjunction	-1741 Jun	19 j 15:07	11°♊11'03	0°12'31
minimum elong	-1741 Jun	19 j 15:07	11°♊11'03	0°12'33
behind sun begin	-1741 Jun	19 j 10:52	11°♊10'25	
behind sun end	-1741 Jun	19 j 19:22	11°♊11'42	
morning rise	-1741 Jul	06 j 08:09	12°♊12'26	
retrograde	-1741 Oct	06 j 17:03	15°♊33'10	
opposition	-1741 Dec	19 j 07:25	13°♊30'23	0°15'52
min. Earth dist.	-1741 Dec	20 j 06:59	13°♊27'48	17.48174 AU
direct	-1740 Mar	03 j 19:54	11°♊24'44	
evening set	-1740 Jun	06 j 23:50	14°♊50'34	
conjunction	-1740 Jun	23 j 18:38	15°♊52'23	0°16'02
minimum elong	-1740 Jun	23 j 18:39	15°♊52'23	0°16'05
max. Earth dist.	-1740 Jun	22 j 14:52	15°♊48'06	19.45688 AU
morning rise	-1740 Jul	10 j 10:45	16°♊53'53	
retrograde	-1740 Oct	10 j 16:47	20°♊15'01	
opposition	-1740 Dec	23 j 04:21	18°♊12'14	0°19'45
min. Earth dist.	-1740 Dec	24 j 03:55	18°♊09'39	17.43388 AU
direct	-1739 Mar	08 j 19:50	16°♊06'19	
evening set	-1739 Jun	12 j 04:19	19°♊33'13	
conjunction	-1739 Jun	28 j 22:24	20°♊35'11	0°19'27
minimum elong	-1739 Jun	28 j 22:24	20°♊35'11	0°19'29
max. Earth dist.	-1739 Jun	27 j 17:17	20°♊30'40	19.41175 AU
morning rise	-1739 Jul	15 j 13:43	21°♊36'46	
retrograde	-1739 Oct	15 j 16:10	24°♊58'18	
opposition	-1739 Dec	28 j 02:09	22°♊55'32	0°23'30
min. Earth dist.	-1739 Dec	29 j 02:32	22°♊52'52	17.39173 AU
direct	-1738 Mar	13 j 19:04	20°♊49'24	
evening set	-1738 Jun	17 j 08:57	24°♊17'19	
max. Earth dist.	-1738 Jul	02 j 22:01	25°♊14'58	19.37244 AU
conjunction	-1738 Jul	04 j 02:28	25°♊19'24	0°22'46
minimum elong	-1738 Jul	04 j 02:28	25°♊19'24	0°22'48
morning rise	-1738 Jul	20 j 16:49	26°♊21'03	
retrograde	-1738 Oct	20 j 17:35	29°♊42'56	
opposition	-1737 Jan	02 j 00:37	27°♊40'15	0°27'08
min. Earth dist.	-1737 Jan	03 j 00:29	27°♊37'38	17.35519 AU
direct	-1737 Mar	18 j 20:34	25°♊33'58	
evening set	-1737 Jun	22 j 14:17	29°♊02'49	
	-1737 Jul	07 j 23:08	0°♋	
max. Earth dist.	-1737 Jul	08 j 01:47	0°♋00'25	19.33868 AU
conjunction	-1737 Jul	09 j 06:57	0°♋04'59	0°25'56
minimum elong	-1737 Jul	09 j 06:56	0°♋04'58	0°25'59
morning rise	-1737 Jul	25 j 20:17	1°♋06'41	
retrograde	-1737 Oct	25 j 17:22	4°♋28'52	
opposition	-1736 Jan	06 j 23:46	2°♋26'16	0°30'36
min. Earth dist.	-1736 Jan	08 j 00:42	2°♋23'32	17.32429 AU
direct	-1736 Mar	22 j 20:20	0°♋19'52	
evening set	-1736 Jun	26 j 19:52	3°♋49'35	
max. Earth dist.	-1736 Jul	12 j 06:51	4°♋47'16	19.31046 AU
conjunction	-1736 Jul	13 j 11:40	4°♋51'47	0°28'57
minimum elong	-1736 Jul	13 j 11:40	4°♋51'47	0°28'59
morning rise	-1736 Jul	29 j 23:57	5°♋53'30	
retrograde	-1736 Oct	29 j 19:41	9°♋15'58	
opposition	-1735 Jan	10 j 23:41	7°♋13'28	0°33'52
min. Earth dist.	-1735 Jan	11 j 23:50	7°♋10'49	17.29864 AU
direct	-1735 Mar	27 j 23:55	5°♋06'59	
evening set	-1735 Jul	02 j 01:34	8°♋37'25	
max. Earth dist.	-1735 Jul	17 j 11:38	9°♋35'07	19.28728 AU
conjunction	-1735 Jul	18 j 16:23	9°♋39'38	0°31'47
minimum elong	-1735 Jul	18 j 16:23	9°♋39'38	0°31'49
morning rise	-1735 Aug	04 j 03:26	10°♋41'20	
retrograde	-1735 Nov	03 j 19:25	14°♋04'01	
opposition	-1734 Jan	16 j 00:24	12°♋01'36	0°36'54
min. Earth dist.	-1734 Jan	17 j 01:31	11°♋58'51	17.27807 AU
direct	-1734 Apr	02 j 01:22	9°♋55'03	
evening set	-1734 Jul	07 j 07:28	13°♋26'06	
conjunction	-1734 Jul	23 j 21:12	14°♋28'17	0°34'23
minimum elong	-1734 Jul	23 j 21:11	14°♋28'17	0°34'25
max. Earth dist.	-1734 Jul	22 j 16:25	14°♋23'45	19.26915 AU
morning rise	-1734 Aug	09 j 07:10	15°♋29'56	
retrograde	-1734 Nov	08 j 21:23	18°♋52'45	
opposition	-1733 Jan	21 j 01:23	16°♋50'25	0°39'42
min. Earth dist.	-1733 Jan	22 j 01:26	16°♋47'47	17.26232 AU
direct	-1733 Apr	07 j 06:57	14°♋43'48	
evening set	-1733 Jul	12 j 13:21	18°♋15'20	
max. Earth dist.	-1733 Jul	27 j 22:02	19°♋13'03	19.25571 AU
conjunction	-1733 Jul	29 j 02:05	19°♋17'29	0°36'46
minimum elong	-1733 Jul	29 j 02:04	19°♋17'29	0°36'47
morning rise	-1733 Aug	14 j 10:41	20°♋19'03	
retrograde	-1733 Nov	13 j 20:59	23°♋41'57	
opposition	-1732 Jan	26 j 03:10	21°♋39'41	0°42'12
min. Earth dist.	-1732 Jan	27 j 03:59	21°♋36'59	17.25133 AU
direct	-1732 Apr	11 j 10:07	19°♋33'01	
evening set	-1732 Jul	16 j 19:06	23°♋04'53	
max. Earth dist.	-1732 Aug	01 j 02:21	24°♋02'29	19.24719 AU
conjunction	-1732 Aug	02 j 06:31	24°♋06'57	0°38'53
minimum elong	-1732 Aug	02 j 06:31	24°♋06'56	0°38'55
morning rise	-1732 Aug	18 j 14:01	25°♋08'25	
retrograde	-1732 Nov	17 j 22:51	28°♋31'19	
opposition	-1731 Jan	30 j 05:12	26°♋29'07	0°44'25
min. Earth dist.	-1731 Jan	31 j 04:34	26°♋26'34	17.24527 AU
direct	-1731 Apr	16 j 17:05	24°♋22'25	
evening set	-1731 Jul	22 j 00:27	27°♋54'28	
max. Earth dist.	-1731 Aug	06 j 08:21	28°♋52'14	19.24366 AU
conjunction	-1731 Aug	07 j 10:50	28°♋56'25	0°40'43
minimum elong	-1731 Aug	07 j 10:49	28°♋56'25	0°40'44
morning rise	-1731 Aug	23 j 16:54	29°♋57'47	
	-1731 Aug	24 j 07:17	0°♌	
retrograde	-1731 Nov	22 j 22:33	3°♌20'37	
opposition	-1730 Feb	04 j 07:39	1°♌18'27	0°46'19
min. Earth dist.	-1730 Feb	05 j 07:14	1°♌15'54	17.24438 AU
	-1730 Mar	08 j 18:01	30°℞♋	
direct	-1730 Apr	21 j 21:09	29°♋11'45	
	-1730 Jun	04 j 00:19	0°♌	
evening set	-1730 Jul	27 j 05:26	2°♌43'51	
conjunction	-1730 Aug	12 j 14:27	3°♌45'40	0°42'16
minimum elong	-1730 Aug	12 j 14:27	3°♌45'40	0°42'18
max. Earth dist.	-1730 Aug	11 j 12:02	3°♌41'28	19.24554 AU
morning rise	-1730 Aug	28 j 19:29	4°♌46'53	
retrograde	-1730 Nov	28 j 00:03	8°♌09'36	
opposition	-1729 Feb	09 j 10:12	6°♌07'28	0°47'53
min. Earth dist.	-1729 Feb	10 j 08:08	6°♌05'05	17.24900 AU
direct	-1729 Apr	27 j 03:18	4°♌00'45	
evening set	-1729 Aug	01 j 09:51	7°♌32'46	
conjunction	-1729 Aug	17 j 17:47	8°♌34'26	0°43'31
minimum elong	-1729 Aug	17 j 17:47	8°♌34'26	0°43'33
max. Earth dist.	-1729 Aug	16 j 17:47	8°♌30'38	19.25298 AU
morning rise	-1729 Sep	02 j 21:23	9°♌35'29	
retrograde	-1729 Dec	03 j 00:10	12°♌58'00	
opposition	-1728 Feb	14 j 13:00	10°♌55'55	0°49'06

Attention, astronomical year style is used: The year -1728 in astronomical counting style is the year 1729 BCE in historical counting style.

min. Earth dist.	-1728 Feb 15 j 10:25	10°♌53'36	17.25933 AU
direct	-1728 May 01 j 07:53	8°♌49'15	
evening set	-1728 Aug 05 j 13:49	12°♌21'03	
conjunction	-1728 Aug 21 j 20:19	13°♌22'31	0°44'28
minimum elong	-1728 Aug 21 j 20:19	13°♌22'31	0°44'29
max. Earth dist.	-1728 Aug 20 j 20:49	13°♌18'47	19.26646 AU
morning rise	-1728 Sep 06 j 22:50	14°♌23'23	
	-1728 Sep 17 j 00:02	15°♌	
retrograde	-1728 Dec 07 j 00:52	17°♌45'40	
opposition	-1727 Feb 18 j 15:53	15°♌43'38	0°49'59
min. Earth dist.	-1727 Feb 19 j 11:22	15°♌41'31	17.27600 AU
	-1727 Mar 07 j 19:42	15°℞♌	
direct	-1727 May 06 j 12:40	13°♌37'03	
	-1727 Jul 02 j 19:38	15°♌	
evening set	-1727 Aug 10 j 16:47	17°♌08'29	
conjunction	-1727 Aug 26 j 22:10	18°♌09'45	0°45'05
minimum elong	-1727 Aug 26 j 22:10	18°♌09'45	0°45'07
max. Earth dist.	-1727 Aug 26 j 01:43	18°♌06'30	19.28633 AU
morning rise	-1727 Sep 11 j 23:20	19°♌10'24	
retrograde	-1727 Dec 12 j 01:08	22°♌32'26	
opposition	-1726 Feb 23 j 18:49	20°♌30'27	0°50'30
min. Earth dist.	-1726 Feb 24 j 12:53	20°♌28'31	17.29905 AU
direct	-1726 May 11 j 17:31	18°♌24'02	
evening set	-1726 Aug 15 j 19:21	21°♌55'01	
conjunction	-1726 Aug 31 j 23:19	22°♌56'03	0°45'24
minimum elong	-1726 Aug 31 j 23:19	22°♌56'03	0°45'24
max. Earth dist.	-1726 Aug 31 j 03:50	22°♌52'57	19.31275 AU
morning rise	-1726 Sep 16 j 23:26	23°♌56'30	
retrograde	-1726 Dec 17 j 00:36	27°♌18'12	
opposition	-1725 Feb 28 j 21:31	25°♌16'20	0°50'41
min. Earth dist.	-1725 Mar 01 j 13:43	25°♌14'36	17.32879 AU
direct	-1725 May 16 j 21:02	23°♌10'07	
evening set	-1725 Aug 20 j 21:04	26°♌40'34	
conjunction	-1725 Sep 05 j 23:56	27°♌41'21	0°45'24
minimum elong	-1725 Sep 05 j 23:56	27°♌41'21	0°45'26
max. Earth dist.	-1725 Sep 05 j 07:29	27°♌38'45	19.34576 AU
morning rise	-1725 Sep 21 j 22:48	28°♌41'33	
	-1725 Oct 14 j 06:56	0°♍	
retrograde	-1725 Dec 22 j 00:51	2°♍02'55	
opposition	-1724 Mar 05 j 00:18	0°♍01'12	0°50'30
	-1724 Mar 05 j 11:34	30°℞♌	
min. Earth dist.	-1724 Mar 05 j 14:27	29°♌59'41	17.36476 AU
direct	-1724 May 21 j 01:56	27°♌55'18	
	-1724 Jul 31 j 11:45	0°♍	
evening set	-1724 Aug 24 j 21:59	1°♍25'04	
conjunction	-1724 Sep 09 j 23:31	2°♍25'35	0°45'06
minimum elong	-1724 Sep 09 j 23:31	2°♍25'35	0°45'07
max. Earth dist.	-1724 Sep 09 j 08:32	2°♍23'13	19.38482 AU
morning rise	-1724 Sep 25 j 21:23	3°♍25'33	
retrograde	-1724 Dec 25 j 23:14	6°♍46'34	
opposition	-1723 Mar 10 j 02:59	4°♍45'01	0°49'59
min. Earth dist.	-1723 Mar 10 j 15:30	4°♍43'41	17.40670 AU
direct	-1723 May 26 j 04:42	2°♍39'27	
evening set	-1723 Aug 29 j 22:04	6°♍08'28	
conjunction	-1723 Sep 14 j 22:30	7°♍08'43	0°44'30
minimum elong	-1723 Sep 14 j 22:30	7°♍08'43	0°44'31
max. Earth dist.	-1723 Sep 14 j 10:19	7°♍06'47	19.42950 AU
morning rise	-1723 Sep 30 j 19:19	8°♍08'25	
retrograde	-1723 Dec 30 j 22:43	11°♍29'01	
opposition	-1722 Mar 15 j 05:16	9°♍27'40	0°49'08
min. Earth dist.	-1722 Mar 15 j 15:23	9°♍26'35	17.45372 AU
direct	-1722 May 31 j 09:27	7°♍22'28	
evening set	-1722 Sep 03 j 21:22	10°♍50'38	
conjunction	-1722 Sep 19 j 20:37	11°♍50'35	0°43'36
minimum elong	-1722 Sep 19 j 20:37	11°♍50'35	0°43'38
max. Earth dist.	-1722 Sep 19 j 10:08	11°♍48'56	19.47883 AU
morning rise	-1722 Oct 05 j 16:30	12°♍50'02	
retrograde	-1721 Jan 04 j 19:47	16°♍10'12	
opposition	-1721 Mar 20 j 07:28	14°♍09'01	0°47'58
min. Earth dist.	-1721 Mar 20 j 16:22	14°♍08'04	17.50517 AU
direct	-1721 Jun 05 j 11:21	12°♍04'12	
evening set	-1721 Sep 08 j 19:44	15°♍31'26	
conjunction	-1721 Sep 24 j 17:54	16°♍31'05	0°42'25
minimum elong	-1721 Sep 24 j 17:54	16°♍31'05	0°42'25
max. Earth dist.	-1721 Sep 24 j 09:42	16°♍29'47	19.53222 AU
morning rise	-1721 Oct 10 j 12:52	17°♍30'15	
retrograde	-1720 Jan 09 j 18:05	20°♍49'56	
opposition	-1720 Mar 24 j 09:18	18°♍48'56	0°46'28
min. Earth dist.	-1720 Mar 24 j 15:27	18°♍48'17	17.56016 AU
direct	-1720 Jun 09 j 15:49	16°♍44'31	
evening set	-1720 Sep 12 j 17:15	20°♍10'42	
conjunction	-1720 Sep 28 j 14:22	21°♍10'02	0°40'57
minimum elong	-1720 Sep 28 j 14:22	21°♍10'02	0°40'58
max. Earth dist.	-1720 Sep 28 j 08:14	21°♍09'05	19.58881 AU
morning rise	-1720 Oct 14 j 08:28	22°♍08'56	
retrograde	-1719 Jan 13 j 13:42	25°♍28'06	
opposition	-1719 Mar 29 j 10:51	23°♍27'15	0°44'41
min. Earth dist.	-1719 Mar 29 j 15:58	23°♍26'43	17.61825 AU
direct	-1719 Jun 14 j 16:37	21°♍23'14	
evening set	-1719 Sep 17 j 13:40	24°♍48'17	
conjunction	-1719 Oct 03 j 09:48	25°♍47'18	0°39'14
minimum elong	-1719 Oct 03 j 09:48	25°♍47'18	0°39'14
max. Earth dist.	-1719 Oct 03 j 05:30	25°♍46'37	19.64822 AU
morning rise	-1719 Oct 19 j 03:14	26°♍45'55	
	-1718 Jan 05 j 14:41	0°♎	
retrograde	-1718 Jan 18 j 10:49	0°♎04'31	
	-1718 Jan 31 j 10:39	30°℞♍	
opposition	-1718 Apr 03 j 11:42	28°♍03'49	0°42'37
min. Earth dist.	-1718 Apr 03 j 13:56	28°♍03'34	17.67866 AU
direct	-1718 Jun 19 j 19:13	26°♍00'10	
evening set	-1718 Sep 22 j 09:12	29°♍24'01	
	-1718 Oct 02 j 02:42	0°♎	
conjunction	-1718 Oct 08 j 04:27	0°♎22'43	0°37'16
minimum elong	-1718 Oct 08 j 04:27	0°♎22'43	0°37'15
max. Earth dist.	-1718 Oct 08 j 02:28	0°♎22'24	19.70962 AU
morning rise	-1718 Oct 23 j 21:07	1°♎21'03	
retrograde	-1717 Jan 23 j 05:03	4°♎39'03	
opposition	-1717 Apr 08 j 12:03	2°♎38'27	0°40'17
min. Earth dist.	-1717 Apr 08 j 13:26	2°♎38'19	17.74099 AU
direct	-1717 Jun 24 j 18:21	0°♎35'11	
evening set	-1717 Sep 27 j 03:43	3°♎57'46	
conjunction	-1717 Oct 12 j 22:03	4°♎56'08	0°35'05
minimum elong	-1717 Oct 12 j 22:03	4°♎56'08	0°35'05
max. Earth dist.	-1717 Oct 12 j 21:33	4°♎56'04	19.77293 AU
morning rise	-1717 Oct 28 j 14:14	5°♎54'12	
retrograde	-1716 Jan 28 j 01:07	9°♎11'34	
opposition	-1716 Apr 12 j 11:44	7°♎11'03	0°37'43
min. Earth dist.	-1716 Apr 12 j 10:03	7°♎11'14	17.80503 AU
direct	-1716 Jun 28 j 18:56	5°♎08'08	
evening set	-1716 Sep 30 j 20:56	8°♎29'23	
conjunction	-1716 Oct 16 j 14:36	9°♎27'27	0°32'41

Attention, astronomical year style is used: The year -1716 in astronomical counting style is the year 1717 BCE in historical counting style.

minimum elong	-1716 Oct 16 j 14:36	9°♎27'27	0°32'40
max. Earth dist.	-1716 Oct 16 j 16:54	9°♎27'48	19.83778 AU
morning rise	-1716 Nov 01 j 06:10	10°♎25'13	
retrograde	-1715 Jan 31 j 17:54	13°♎41'56	
opposition	-1715 Apr 17 j 10:51	11°♎41'29	0°34'56
min. Earth dist.	-1715 Apr 17 j 08:11	11°♎41'46	17.87070 AU
direct	-1715 Jul 03 j 16:21	9°♎38'55	
evening set	-1715 Oct 05 j 13:15	12°♎58'48	
conjunction	-1715 Oct 21 j 06:07	13°♎56'32	0°30'07
minimum elong	-1715 Oct 21 j 06:07	13°♎56'32	0°30'07
max. Earth dist.	-1715 Oct 21 j 09:49	13°♎57'06	19.90435 AU
morning rise	-1715 Nov 05 j 21:24	14°♎54'02	
retrograde	-1714 Feb 05 j 12:53	18°♎10'04	
opposition	-1714 Apr 22 j 08:50	16°♎09'41	0°31'58
min. Earth dist.	-1714 Apr 22 j 03:04	16°♎10'16	17.93810 AU
direct	-1714 Jul 08 j 14:53	14°♎07'26	
evening set	-1714 Oct 10 j 04:25	17°♎25'58	
conjunction	-1714 Oct 25 j 20:45	18°♎23'23	0°27'23
minimum elong	-1714 Oct 25 j 20:46	18°♎23'23	0°27'21
max. Earth dist.	-1714 Oct 26 j 03:32	18°♎24'25	19.97256 AU
morning rise	-1714 Nov 10 j 11:33	19°♎20'36	
retrograde	-1713 Feb 10 j 04:07	22°♎35'57	
opposition	-1713 Apr 27 j 06:22	20°♎35'38	0°28'50
min. Earth dist.	-1713 Apr 26 j 23:21	20°♎36'22	18.00721 AU
direct	-1713 Jul 13 j 10:43	18°♎33'47	
evening set	-1713 Oct 14 j 18:35	21°♎50'54	
conjunction	-1713 Oct 30 j 10:13	22°♎48'01	0°24'31
minimum elong	-1713 Oct 30 j 10:13	22°♎48'01	0°24'30
max. Earth dist.	-1713 Oct 30 j 18:22	22°♎49'15	20.04262 AU
morning rise	-1713 Nov 15 j 00:52	23°♎44'58	
retrograde	-1712 Feb 14 j 21:42	26°♎59'40	
opposition	-1712 May 01 j 03:01	24°♎59'26	0°25'34
min. Earth dist.	-1712 Apr 30 j 16:52	25°♎00'28	18.07813 AU
direct	-1712 Jul 17 j 07:39	22°♎57'58	
evening set	-1712 Oct 18 j 07:44	26°♎13'44	
conjunction	-1712 Nov 02 j 23:01	27°♎10'32	0°21'31
minimum elong	-1712 Nov 02 j 23:01	27°♎10'32	0°21'31
max. Earth dist.	-1712 Nov 03 j 10:23	27°♎12'16	20.11427 AU
morning rise	-1712 Nov 18 j 13:20	28°♎07'14	
	-1712 Dec 23 j 16:09	0°♏	
retrograde	-1711 Feb 18 j 11:53	1°♏21'17	
	-1711 Apr 19 j 20:32	30°℞♎	
opposition	-1711 May 05 j 22:54	29°♎21'10	0°22'11
min. Earth dist.	-1711 May 05 j 11:25	29°♎22'21	18.15046 AU
direct	-1711 Jul 22 j 01:46	27°♎20'08	
	-1711 Oct 12 j 22:00	0°♏	
evening set	-1711 Oct 22 j 20:01	0°♏34'32	
conjunction	-1711 Nov 07 j 10:48	1°♏31'03	0°18'26
minimum elong	-1711 Nov 07 j 10:48	1°♏31'03	0°18'25
max. Earth dist.	-1711 Nov 07 j 23:13	1°♏32'56	20.18718 AU
morning rise	-1711 Nov 23 j 01:10	2°♏27'31	
retrograde	-1710 Feb 23 j 03:49	5°♏40'56	
opposition	-1710 May 10 j 17:56	3°♏40'57	0°18'41
min. Earth dist.	-1710 May 10 j 03:46	3°♏42'24	18.22372 AU
direct	-1710 Jul 26 j 20:29	1°♏40'22	
evening set	-1710 Oct 27 j 07:21	4°♏53'27	
conjunction	-1710 Nov 11 j 21:56	5°♏49'41	0°15'16
minimum elong	-1710 Nov 11 j 21:56	5°♏49'41	0°15'15
behind sun begin	-1710 Nov 11 j 19:34	5°♏49'20	
behind sun end	-1710 Nov 12 j 00:18	5°♏50'02	
max. Earth dist.	-1710 Nov 12 j 13:23	5°♏52'01	20.26053 AU
morning rise	-1710 Nov 27 j 12:05	6°♏45'54	
retrograde	-1709 Feb 27 j 16:59	9°♏58'43	
opposition	-1709 May 15 j 12:17	7°♏58'53	0°15'07
min. Earth dist.	-1709 May 14 j 20:54	8°♏00'27	18.29703 AU
direct	-1709 Jul 31 j 13:15	5°♏58'46	
evening set	-1709 Oct 31 j 18:03	9°♏10'33	
conjunction	-1709 Nov 16 j 08:13	10°♏06'31	0°12'03
minimum elong	-1709 Nov 16 j 08:13	10°♏06'31	0°12'01
behind sun begin	-1709 Nov 16 j 03:39	10°♏05'50	
behind sun end	-1709 Nov 16 j 12:47	10°♏07'11	
max. Earth dist.	-1709 Nov 17 j 00:26	10°♏08'57	20.33373 AU
morning rise	-1709 Dec 01 j 22:34	11°♏02'30	
retrograde	-1708 Mar 03 j 07:27	14°♏14'44	
opposition	-1708 May 19 j 05:56	12°♏15'04	0°11'30
min. Earth dist.	-1708 May 18 j 12:23	12°♏16'50	18.36993 AU
direct	-1708 Aug 04 j 05:32	10°♏15'23	
evening set	-1708 Nov 04 j 03:48	13°♏25'53	
conjunction	-1708 Nov 19 j 17:56	14°♏21'37	0°08'46
minimum elong	-1708 Nov 19 j 17:57	14°♏21'37	0°08'45
behind sun begin	-1708 Nov 19 j 12:16	14°♏20'47	
behind sun end	-1708 Nov 19 j 23:37	14°♏22'27	
max. Earth dist.	-1708 Nov 20 j 12:54	14°♏24'27	20.40596 AU
	-1708 Nov 30 j 10:26	15°♏	
morning rise	-1708 Dec 05 j 08:15	15°♏17'23	
retrograde	-1707 Mar 07 j 20:03	18°♏29'03	
opposition	-1707 May 23 j 22:50	16°♏29'32	0°07'50
min. Earth dist.	-1707 May 23 j 04:14	16°♏31'25	18.44137 AU
	-1707 Jul 04 j 16:03	15°℞♏	
direct	-1707 Aug 08 j 20:55	14°♏30'17	
	-1707 Sep 12 j 00:30	15°♏	
evening set	-1707 Nov 08 j 13:06	17°♏39'34	
conjunction	-1707 Nov 24 j 02:59	18°♏35'02	0°05'29
minimum elong	-1707 Nov 24 j 02:58	18°♏35'02	0°05'26
behind sun begin	-1707 Nov 23 j 20:40	18°♏34'07	
behind sun end	-1707 Nov 24 j 09:17	18°♏35'57	
max. Earth dist.	-1707 Nov 24 j 22:13	18°♏37'55	20.47644 AU
morning rise	-1707 Dec 09 j 17:36	19°♏30'37	
retrograde	-1706 Mar 12 j 08:46	22°♏41'44	
opposition	-1706 May 28 j 14:49	20°♏42'21	0°04'09
min. Earth dist.	-1706 May 27 j 18:44	20°♏44'22	18.51080 AU
direct	-1706 Aug 13 j 10:59	18°♏43'30	
evening set	-1706 Nov 12 j 21:38	21°♏51'36	
conjunction	-1706 Nov 28 j 11:37	22°♏46'51	0°02'09
minimum elong	-1706 Nov 28 j 11:37	22°♏46'51	0°02'07
behind sun begin	-1706 Nov 28 j 05:05	22°♏45'54	
behind sun end	-1706 Nov 28 j 18:08	22°♏47'48	
max. Earth dist.	-1706 Nov 29 j 09:08	22°♏50'03	20.54444 AU
morning rise	-1706 Dec 14 j 02:18	23°♏42'14	
retrograde	-1705 Mar 16 j 20:39	26°♏52'49	
min. Earth dist.	-1705 Jun 01 j 09:14	24°♏55'40	18.57732 AU
opposition	-1705 Jun 02 j 06:16	24°♏53'33	0°00'27
desc. node	-1705 Jul 18 j 02:25	23°♏18'14	
direct	-1705 Aug 18 j 01:08	22°♏55'05	
evening set	-1705 Nov 17 j 05:32	26°♏02'01	
conjunction	-1705 Dec 02 j 19:22	26°♏57'03	-0°01'17
minimum elong	-1705 Dec 02 j 19:23	26°♏57'03	0°01'18
behind sun begin	-1705 Dec 02 j 12:51	26°♏56'06	
behind sun end	-1705 Dec 03 j 01:54	26°♏57'59	
max. Earth dist.	-1705 Dec 03 j 16:53	27°♏00'14	20.60935 AU
morning rise	-1705 Dec 18 j 10:33	27°♏52'15	
	-1704 Jan 29 j 18:53	0°♐	
retrograde	-1704 Mar 20 j 07:59	1°♐02'20	

Attention, astronomical year style is used: The year -1704 in astronomical counting style is the year 1705 BCE in historical counting style.

	-1704 May 12 j 06:30	30°℞♏	
opposition	-1704 Jun 05 j 21:01	29°♏03'09	-0°03'12
min. Earth dist.	-1704 Jun 04 j 22:56	29°♏05'22	18.64061 AU
direct	-1704 Aug 21 j 13:26	27°♏05'00	
	-1704 Nov 17 j 09:18	0°♐	
evening set	-1704 Nov 20 j 12:46	0°♐10'49	
conjunction	-1704 Dec 06 j 02:55	1°♐05'39	-0°04'36
minimum elong	-1704 Dec 06 j 02:54	1°♐05'39	0°04'37
behind sun begin	-1704 Dec 05 j 20:30	1°♐04'44	
behind sun end	-1704 Dec 06 j 09:18	1°♐06'34	
max. Earth dist.	-1704 Dec 07 j 02:23	1°♐09'07	20.67074 AU
morning rise	-1704 Dec 21 j 18:17	2°♐00'42	
retrograde	-1703 Mar 24 j 18:32	5°♐10'16	
min. Earth dist.	-1703 Jun 09 j 11:52	3°♐13'26	18.70013 AU
opposition	-1703 Jun 10 j 10:47	3°♐11'08	-0°06'50
direct	-1703 Aug 26 j 02:03	1°♐13'17	
evening set	-1703 Nov 24 j 19:29	4°♐18'00	
conjunction	-1703 Dec 10 j 09:40	5°♐12'40	-0°07'49
minimum elong	-1703 Dec 10 j 09:39	5°♐12'40	0°07'50
behind sun begin	-1703 Dec 10 j 03:45	5°♐11'49	
behind sun end	-1703 Dec 10 j 15:33	5°♐13'30	
max. Earth dist.	-1703 Dec 11 j 08:53	5°♐16'05	20.72844 AU
morning rise	-1703 Dec 26 j 01:39	6°♐07'34	
retrograde	-1702 Mar 29 j 04:45	9°♐16'39	
opposition	-1702 Jun 14 j 23:54	7°♐17'32	-0°10'23
min. Earth dist.	-1702 Jun 14 j 00:20	7°♐19'53	18.75609 AU
direct	-1702 Aug 30 j 12:35	5°♐19'54	
evening set	-1702 Nov 29 j 01:21	8°♐23'37	
conjunction	-1702 Dec 14 j 15:54	9°♐18'06	-0°10'59
minimum elong	-1702 Dec 14 j 15:54	9°♐18'06	0°11'02
behind sun begin	-1702 Dec 14 j 10:57	9°♐17'23	
behind sun end	-1702 Dec 14 j 20:52	9°♐18'48	
max. Earth dist.	-1702 Dec 15 j 17:08	9°♐21'48	20.78255 AU
morning rise	-1702 Dec 30 j 08:13	10°♐12'52	
retrograde	-1701 Apr 02 j 13:45	13°♐21'28	
min. Earth dist.	-1701 Jun 18 j 11:36	11°♐24'50	18.80851 AU
opposition	-1701 Jun 19 j 12:13	11°♐22'22	-0°13'52
direct	-1701 Sep 03 j 23:24	9°♐24'59	
evening set	-1701 Dec 03 j 06:55	12°♐27'42	
conjunction	-1701 Dec 18 j 21:36	13°♐22'02	-0°14'05
minimum elong	-1701 Dec 18 j 21:36	13°♐22'02	0°14'07
behind sun begin	-1701 Dec 18 j 18:15	13°♐21'34	
behind sun end	-1701 Dec 19 j 00:57	13°♐22'31	
max. Earth dist.	-1701 Dec 19 j 22:40	13°♐25'42	20.83342 AU
morning rise	-1700 Jan 03 j 14:37	14°♐16'41	
retrograde	-1700 Apr 05 j 23:13	17°♐24'53	
opposition	-1700 Jun 22 j 23:52	15°♐25'46	-0°17'15
min. Earth dist.	-1700 Jun 21 j 22:44	15°♐28'16	18.85803 AU
direct	-1700 Sep 07 j 08:08	13°♐28'35	
evening set	-1700 Dec 06 j 11:48	16°♐30'24	
conjunction	-1700 Dec 22 j 03:02	17°♐24'37	-0°17'06
minimum elong	-1700 Dec 22 j 03:02	17°♐24'37	0°17'08
max. Earth dist.	-1700 Dec 23 j 06:03	17°♐28'32	20.88136 AU
morning rise	-1699 Jan 06 j 20:29	18°♐19'09	
retrograde	-1699 Apr 10 j 07:30	21°♐26'57	
min. Earth dist.	-1699 Jun 26 j 08:30	19°♐30'29	18.90449 AU
opposition	-1699 Jun 27 j 10:42	19°♐27'52	-0°20'32
direct	-1699 Sep 11 j 17:22	17°♐30'54	
evening set	-1699 Dec 10 j 16:33	20°♐31'53	
conjunction	-1699 Dec 26 j 08:01	21°♐25'58	-0°20'00
minimum elong	-1699 Dec 26 j 08:00	21°♐25'58	0°20'02
max. Earth dist.	-1699 Dec 27 j 10:41	21°♐29'50	20.92632 AU
morning rise	-1698 Jan 11 j 02:14	22°♐20'26	
retrograde	-1698 Apr 14 j 16:09	25°♐27'53	
opposition	-1698 Jul 01 j 20:55	23°♐28'50	-0°23'41
min. Earth dist.	-1698 Jun 30 j 18:32	23°♐31'27	18.94808 AU
direct	-1698 Sep 15 j 23:59	21°♐32'04	
evening set	-1698 Dec 14 j 20:47	24°♐32'19	
conjunction	-1698 Dec 30 j 12:53	25°♐26'19	-0°22'49
minimum elong	-1698 Dec 30 j 12:53	25°♐26'19	0°22'50
max. Earth dist.	-1698 Dec 31 j 17:16	25°♐30'25	20.96833 AU
morning rise	-1697 Jan 15 j 07:37	26°♐20'42	
retrograde	-1697 Apr 19 j 00:26	29°♐27'52	
min. Earth dist.	-1697 Jul 05 j 03:15	27°♐31'34	18.98846 AU
opposition	-1697 Jul 06 j 06:36	27°♐28'51	-0°26'43
direct	-1697 Sep 20 j 08:19	25°♐32'18	
evening set	-1697 Dec 19 j 00:50	28°♐31'53	
conjunction	-1696 Jan 03 j 17:18	29°♐25'47	-0°25'30
minimum elong	-1696 Jan 03 j 17:18	29°♐25'47	0°25'32
max. Earth dist.	-1696 Jan 04 j 21:11	29°♐29'49	21.00705 AU
	-1696 Jan 13 j 14:58	0°♑	
morning rise	-1696 Jan 19 j 12:57	0°♑20'08	
retrograde	-1696 Apr 22 j 08:48	3°♑27'03	
opposition	-1696 Jul 09 j 15:53	1°♑28'05	-0°29'37
min. Earth dist.	-1696 Jul 08 j 12:47	1°♑30'47	19.02548 AU
	-1696 Aug 20 j 08:32	30°℞♐	
direct	-1696 Sep 23 j 13:18	29°♐31'45	
	-1696 Oct 26 j 23:02	0°♑	
evening set	-1696 Dec 22 j 04:42	2°♑30'43	
conjunction	-1695 Jan 06 j 21:57	3°♑24'35	-0°28'03
minimum elong	-1695 Jan 06 j 21:57	3°♑24'35	0°28'05
max. Earth dist.	-1695 Jan 08 j 03:10	3°♑28'47	21.04211 AU
morning rise	-1695 Jan 22 j 18:12	4°♑18'53	
retrograde	-1695 Apr 26 j 17:04	7°♑25'35	
min. Earth dist.	-1695 Jul 12 j 20:44	5°♑29'26	19.05847 AU
opposition	-1695 Jul 14 j 00:23	5°♑26'41	-0°32'22
direct	-1695 Sep 27 j 20:49	3°♑30'32	
evening set	-1695 Dec 26 j 08:39	6°♑28'59	
conjunction	-1694 Jan 11 j 02:21	7°♑22'48	-0°30'29
minimum elong	-1694 Jan 11 j 02:21	7°♑22'48	0°30'31
max. Earth dist.	-1694 Jan 12 j 06:35	7°♑26'51	21.07295 AU
morning rise	-1694 Jan 26 j 23:34	8°♑17'06	
retrograde	-1694 May 01 j 01:19	11°♑23'38	
min. Earth dist.	-1694 Jul 17 j 05:53	9°♑27'27	19.08713 AU
opposition	-1694 Jul 18 j 08:44	9°♑24'46	-0°34'58
direct	-1694 Oct 02 j 01:11	7°♑28'47	
evening set	-1694 Dec 30 j 12:18	10°♑26'48	
conjunction	-1693 Jan 15 j 06:50	11°♑20'36	-0°32'45
minimum elong	-1693 Jan 15 j 06:50	11°♑20'36	0°32'47
max. Earth dist.	-1693 Jan 16 j 12:00	11°♑24'46	21.09914 AU
morning rise	-1693 Jan 31 j 04:41	12°♑14'53	
retrograde	-1693 May 05 j 09:29	15°♑21'18	
opposition	-1693 Jul 22 j 16:38	13°♑22'28	-0°37'23
min. Earth dist.	-1693 Jul 21 j 13:30	13°♑25'11	19.11073 AU
direct	-1693 Oct 06 j 07:56	11°♑26'37	
evening set	-1692 Jan 03 j 16:19	14°♑24'15	
conjunction	-1692 Jan 19 j 11:24	15°♑18'03	-0°34'52
minimum elong	-1692 Jan 19 j 11:24	15°♑18'03	0°34'54
max. Earth dist.	-1692 Jan 20 j 15:06	15°♑22'00	21.12005 AU
morning rise	-1692 Feb 04 j 10:17	16°♑12'21	
retrograde	-1692 May 08 j 17:45	19°♑18'41	
min. Earth dist.	-1692 Jul 24 j 22:24	17°♑22'25	19.12892 AU

Attention, astronomical year style is used: The year -1692 in astronomical counting style is the year 1693 BCE in historical counting style.

opposition	-1692 Jul 26 j 00:14	17°♉19'51	-0°39'38
direct	-1692 Oct 09 j 12:15	15°♉24'04	
evening set	-1691 Jan 06 j 20:14	18°♉21'23	
conjunction	-1691 Jan 22 j 16:17	19°♉15'13	-0°36'49
minimum elong	-1691 Jan 22 j 16:17	19°♉15'13	0°36'51
max. Earth dist.	-1691 Jan 23 j 20:19	19°♉19'13	21.13525 AU
morning rise	-1691 Feb 07 j 15:54	20°♉09'33	
retrograde	-1691 May 13 j 01:39	23°♉15'48	
min. Earth dist.	-1691 Jul 29 j 05:37	21°♉19'31	19.14102 AU
opposition	-1691 Jul 30 j 07:24	21°♉16'56	-0°41'41
direct	-1691 Oct 13 j 18:13	19°♉21'12	
evening set	-1690 Jan 11 j 00:24	22°♉18'16	
conjunction	-1690 Jan 26 j 21:04	23°♉12'07	-0°38'35
minimum elong	-1690 Jan 26 j 21:04	23°♉12'07	0°38'37
max. Earth dist.	-1690 Jan 27 j 23:13	23°♉15'51	21.14428 AU
morning rise	-1690 Feb 11 j 21:45	24°♉06'30	
retrograde	-1690 May 17 j 09:18	27°♉12'43	
opposition	-1690 Aug 03 j 14:23	25°♉13'47	-0°43'32
min. Earth dist.	-1690 Aug 02 j 14:10	25°♉16'12	19.14706 AU
direct	-1690 Oct 17 j 22:27	23°♉18'01	
evening set	-1689 Jan 15 j 04:26	26°♉14'54	
conjunction	-1689 Jan 31 j 02:09	27°♉08'48	-0°40'10
minimum elong	-1689 Jan 31 j 02:09	27°♉08'48	0°40'12
max. Earth dist.	-1689 Feb 01 j 04:30	27°♉12'33	21.14738 AU
morning rise	-1689 Feb 16 j 03:37	28°♉03'15	
	-1689 Mar 27 j 19:36	0°♒	
retrograde	-1689 May 21 j 17:10	1°♒09'26	
	-1689 Jul 17 j 13:44	30°℞♉	
opposition	-1689 Aug 07 j 20:56	29°♉10'24	-0°45'10
min. Earth dist.	-1689 Aug 06 j 20:50	29°♉12'49	19.14719 AU
direct	-1689 Oct 22 j 03:54	27°♉14'35	
	-1688 Jan 15 j 22:23	0°♒	
evening set	-1688 Jan 19 j 08:43	0°♒11'20	
conjunction	-1688 Feb 04 j 07:11	1°♒05'18	-0°41'34
minimum elong	-1688 Feb 04 j 07:10	1°♒05'18	0°41'35
max. Earth dist.	-1688 Feb 05 j 07:40	1°♒08'47	21.14480 AU
morning rise	-1688 Feb 20 j 09:48	1°♒59'50	
retrograde	-1688 May 25 j 00:14	5°♒06'03	
min. Earth dist.	-1688 Aug 10 j 05:00	3°♒09'08	19.14200 AU
opposition	-1688 Aug 11 j 03:22	3°♒06'53	-0°46'36
direct	-1688 Oct 25 j 07:43	1°♒10'57	
evening set	-1687 Jan 22 j 13:06	4°♒07'40	
conjunction	-1687 Feb 07 j 12:40	5°♒01'44	-0°42'45
minimum elong	-1687 Feb 07 j 12:40	5°♒01'44	0°42'47
max. Earth dist.	-1687 Feb 08 j 13:20	5°♒05'14	21.13708 AU
morning rise	-1687 Feb 23 j 16:05	5°♒56'22	
retrograde	-1687 May 29 j 08:36	9°♒02'38	
min. Earth dist.	-1687 Aug 14 j 11:01	7°♒05'34	19.13183 AU
opposition	-1687 Aug 15 j 09:14	7°♒03'20	-0°47'48
direct	-1687 Oct 29 j 12:53	5°♒07'18	
evening set	-1686 Jan 26 j 17:51	8°♒04'04	
conjunction	-1686 Feb 11 j 18:10	8°♒58'14	-0°43'44
minimum elong	-1686 Feb 11 j 18:10	8°♒58'14	0°43'45
max. Earth dist.	-1686 Feb 12 j 16:57	9°♒01'28	21.12467 AU
morning rise	-1686 Feb 27 j 22:45	9°♒52'58	
retrograde	-1686 Jun 02 j 15:20	12°♒59'22	
opposition	-1686 Aug 19 j 15:15	10°♒59'56	-0°48'46
min. Earth dist.	-1686 Aug 18 j 18:46	11°♒02'00	19.11731 AU
direct	-1686 Nov 02 j 15:53	9°♒03'46	
evening set	-1685 Jan 30 j 22:35	12°♒00'40	
conjunction	-1685 Feb 16 j 00:03	12°♒54'58	-0°44'31
minimum elong	-1685 Feb 16 j 00:03	12°♒54'58	0°44'33
max. Earth dist.	-1685 Feb 16 j 23:00	12°♒58'14	21.10807 AU
morning rise	-1685 Mar 04 j 05:27	13°♒49'50	
	-1685 Mar 26 j 12:42	15°♒	
retrograde	-1685 Jun 07 j 00:31	16°♒56'24	
	-1685 Aug 22 j 14:04	15°℞♒	
opposition	-1685 Aug 23 j 21:02	14°♒56'52	-0°49'31
min. Earth dist.	-1685 Aug 23 j 00:40	14°♒58'56	19.09862 AU
direct	-1685 Nov 06 j 21:12	13°♒00'35	
	-1684 Jan 17 j 00:50	15°♒	
evening set	-1684 Feb 04 j 04:01	15°♒57'42	
conjunction	-1684 Feb 20 j 06:20	16°♒52'09	-0°45'05
minimum elong	-1684 Feb 20 j 06:20	16°♒52'09	0°45'06
max. Earth dist.	-1684 Feb 21 j 03:13	16°♒55'06	21.08744 AU
morning rise	-1684 Mar 07 j 12:54	17°♒47'10	
retrograde	-1684 Jun 10 j 07:42	20°♒53'57	
min. Earth dist.	-1684 Aug 26 j 08:24	18°♒56'11	19.07609 AU
opposition	-1684 Aug 27 j 02:48	18°♒54'19	-0°50'02
direct	-1684 Nov 09 j 23:46	16°♒57'54	
evening set	-1683 Feb 07 j 09:45	19°♒55'19	
conjunction	-1683 Feb 23 j 13:16	20°♒49'56	-0°45'27
minimum elong	-1683 Feb 23 j 13:17	20°♒49'56	0°45'28
max. Earth dist.	-1683 Feb 24 j 09:59	20°♒52'53	21.06300 AU
morning rise	-1683 Mar 11 j 20:41	21°♒45'08	
retrograde	-1683 Jun 14 j 17:12	24°♒52'10	
opposition	-1683 Aug 31 j 08:32	22°♒52'28	-0°50'19
min. Earth dist.	-1683 Aug 30 j 14:25	22°♒54'18	19.04962 AU
direct	-1683 Nov 14 j 05:29	20°♒55'55	
evening set	-1682 Feb 11 j 16:04	23°♒53'44	
conjunction	-1682 Feb 27 j 20:25	24°♒48'32	-0°45'35
minimum elong	-1682 Feb 27 j 20:25	24°♒48'32	0°45'37
max. Earth dist.	-1682 Feb 28 j 14:52	24°♒51'09	21.03462 AU
morning rise	-1682 Mar 16 j 04:58	25°♒43'54	
retrograde	-1682 Jun 19 j 01:29	28°♒51'17	
opposition	-1682 Sep 04 j 14:33	26°♒51'29	-0°50'22
min. Earth dist.	-1682 Sep 03 j 22:34	26°♒53'07	19.01930 AU
direct	-1682 Nov 18 j 08:29	24°♒54'48	
evening set	-1681 Feb 15 j 22:54	27°♒53'06	
conjunction	-1681 Mar 04 j 04:28	28°♒48'06	-0°45'31
minimum elong	-1681 Mar 04 j 04:28	28°♒48'06	0°45'32
max. Earth dist.	-1681 Mar 04 j 22:29	28°♒50'40	21.00238 AU
morning rise	-1681 Mar 20 j 13:51	29°♒43'40	
	-1681 Mar 25 j 12:46	0°♓	
retrograde	-1681 Jun 23 j 11:17	2°♓51'23	
opposition	-1681 Sep 08 j 20:32	0°♓51'33	-0°50'10
min. Earth dist.	-1681 Sep 08 j 05:05	0°♓53'07	18.98492 AU
	-1681 Sep 30 j 15:15	30°℞♒	
direct	-1681 Nov 22 j 14:25	28°♒54'43	
	-1680 Jan 12 j 19:12	0°♓	
evening set	-1680 Feb 20 j 06:36	1°♓53'33	
conjunction	-1680 Mar 07 j 13:04	2°♓48'46	-0°45'13
minimum elong	-1680 Mar 07 j 13:04	2°♓48'46	0°45'15
max. Earth dist.	-1680 Mar 08 j 04:25	2°♓50'58	20.96591 AU
morning rise	-1680 Mar 23 j 23:35	3°♓44'33	
retrograde	-1680 Jun 26 j 20:43	6°♓52'41	
opposition	-1680 Sep 12 j 02:55	4°♓52'45	-0°49'43
min. Earth dist.	-1680 Sep 11 j 14:02	4°♓54'04	18.94621 AU
direct	-1680 Nov 25 j 18:28	2°♓55'44	
evening set	-1679 Feb 23 j 14:56	5°♓55'12	
conjunction	-1679 Mar 11 j 22:36	6°♓50'40	-0°44'42

Attention, astronomical year style is used: The year -1679 in astronomical counting style is the year 1680 BCE in historical counting style.

minimum elong	-1679 Mar 11 j 22:36	6°♓50'40	0°44'42
max. Earth dist.	-1679 Mar 12 j 13:00	6°♓52'43	20.92491 AU
morning rise	-1679 Mar 28 j 09:53	7°♓46'38	
retrograde	-1679 Jul 01 j 07:00	10°♓55'11	
opposition	-1679 Sep 16 j 09:17	8°♓55'11	-0°49'02
min. Earth dist.	-1679 Sep 15 j 21:17	8°♓56'24	18.90273 AU
direct	-1679 Nov 30 j 00:50	6°♓57'56	
evening set	-1678 Feb 28 j 00:10	9°♓58'06	
conjunction	-1678 Mar 16 j 08:42	10°♓53'47	-0°43'57
minimum elong	-1678 Mar 16 j 08:42	10°♓53'47	0°43'58
max. Earth dist.	-1678 Mar 16 j 20:04	10°♓55'25	20.87903 AU
morning rise	-1678 Apr 01 j 21:02	11°♓50'00	
retrograde	-1678 Jul 05 j 16:53	14°♓59'00	
opposition	-1678 Sep 20 j 16:15	12°♓58'51	-0°48'05
min. Earth dist.	-1678 Sep 20 j 07:03	12°♓59'48	18.85443 AU
direct	-1678 Dec 04 j 06:16	11°♓01'20	
evening set	-1677 Mar 04 j 09:49	14°♓02'13	
conjunction	-1677 Mar 20 j 19:35	14°♓58'10	-0°42'58
minimum elong	-1677 Mar 20 j 19:35	14°♓58'10	0°42'58
max. Earth dist.	-1677 Mar 21 j 05:44	14°♓59'38	20.82836 AU
morning rise	-1677 Apr 06 j 08:42	15°♓54'37	
retrograde	-1677 Jul 10 j 04:04	19°♓04'04	
opposition	-1677 Sep 24 j 23:21	17°♓03'45	-0°46'53
min. Earth dist.	-1677 Sep 24 j 15:07	17°♓04'36	18.80126 AU
direct	-1677 Dec 08 j 13:44	15°♓05'54	
evening set	-1676 Mar 07 j 20:33	18°♓07'35	
conjunction	-1676 Mar 24 j 07:13	19°♓03'48	-0°41'46
minimum elong	-1676 Mar 24 j 07:13	19°♓03'48	0°41'46
max. Earth dist.	-1676 Mar 24 j 14:15	19°♓04'49	20.77298 AU
morning rise	-1676 Apr 09 j 21:20	20°♓00'30	
retrograde	-1676 Jul 13 j 14:17	23°♓10'24	
opposition	-1676 Sep 28 j 06:47	21°♓09'54	-0°45'26
min. Earth dist.	-1676 Sep 28 j 01:30	21°♓10'26	18.74375 AU
direct	-1676 Dec 11 j 20:06	19°♓11'40	
evening set	-1675 Mar 12 j 07:52	22°♓14'12	
conjunction	-1675 Mar 28 j 19:41	23°♓10'42	-0°40'20
minimum elong	-1675 Mar 28 j 19:41	23°♓10'42	0°40'21
max. Earth dist.	-1675 Mar 29 j 01:24	23°♓11'31	20.71362 AU
morning rise	-1675 Apr 14 j 10:30	24°♓07'39	
retrograde	-1675 Jul 18 j 02:34	27°♓18'00	
opposition	-1675 Oct 02 j 14:27	25°♓17'17	-0°43'45
min. Earth dist.	-1675 Oct 02 j 10:03	25°♓17'45	18.68254 AU
direct	-1675 Dec 16 j 04:47	23°♓18'41	
evening set	-1674 Mar 16 j 19:54	26°♓22'05	
conjunction	-1674 Apr 02 j 08:33	27°♓18'52	-0°38'42
minimum elong	-1674 Apr 02 j 08:33	27°♓18'52	0°38'42
max. Earth dist.	-1674 Apr 02 j 11:28	27°♓19'18	20.65085 AU
morning rise	-1674 Apr 19 j 00:14	28°♓16'05	
	-1674 May 22 j 19:31	0°♈	
retrograde	-1674 Jul 22 j 13:22	1°♈26'57	
	-1674 Sep 23 j 04:57	30°℞♓	
opposition	-1674 Oct 06 j 22:41	29°♓26'01	-0°41'50
min. Earth dist.	-1674 Oct 06 j 21:02	29°♓26'12	18.61843 AU
direct	-1674 Dec 20 j 11:51	27°♓26'59	
	-1673 Mar 11 j 22:10	0°♈	
evening set	-1673 Mar 21 j 08:47	0°♈31'22	
conjunction	-1673 Apr 06 j 22:30	1°♈28'26	-0°36'51
minimum elong	-1673 Apr 06 j 22:30	1°♈28'26	0°36'51
max. Earth dist.	-1673 Apr 07 j 00:08	1°♈28'41	20.58564 AU
morning rise	-1673 Apr 23 j 14:50	2°♈25'55	
retrograde	-1673 Jul 27 j 03:03	5°♈37'18	
opposition	-1673 Oct 11 j 07:03	3°♈36'10	-0°39'41
min. Earth dist.	-1673 Oct 11 j 06:10	3°♈36'15	18.55213 AU
direct	-1673 Dec 24 j 21:35	1°♈36'43	
evening set	-1672 Mar 24 j 22:40	4°♈42'07	
conjunction	-1672 Apr 10 j 13:11	5°♈39'30	-0°34'47
minimum elong	-1672 Apr 10 j 13:11	5°♈39'30	0°34'47
max. Earth dist.	-1672 Apr 10 j 12:08	5°♈39'21	20.51844 AU
morning rise	-1672 Apr 27 j 06:16	6°♈37'15	
retrograde	-1672 Jul 30 j 15:08	9°♈49'11	
opposition	-1672 Oct 14 j 16:09	7°♈47'51	-0°37'18
min. Earth dist.	-1672 Oct 14 j 17:57	7°♈47'39	18.48424 AU
direct	-1672 Dec 28 j 05:44	5°♈47'59	
evening set	-1671 Mar 29 j 13:17	8°♈54'28	
conjunction	-1671 Apr 15 j 04:44	9°♈52'10	-0°32'32
minimum elong	-1671 Apr 15 j 04:44	9°♈52'10	0°32'32
max. Earth dist.	-1671 Apr 15 j 02:16	9°♈51'49	20.45001 AU
morning rise	-1671 May 01 j 22:20	10°♈50'12	
retrograde	-1671 Aug 04 j 06:04	14°♈02'43	
opposition	-1671 Oct 19 j 01:35	12°♈01'12	-0°34'43
min. Earth dist.	-1671 Oct 19 j 03:59	12°♈00'57	18.41533 AU
direct	-1670 Jan 01 j 16:36	10°♈00'56	
evening set	-1670 Apr 03 j 04:55	13°♈08'35	
conjunction	-1670 Apr 19 j 21:05	14°♈06'36	-0°30'06
minimum elong	-1670 Apr 19 j 21:05	14°♈06'36	0°30'05
max. Earth dist.	-1670 Apr 19 j 16:13	14°♈05'53	20.38076 AU
morning rise	-1670 May 06 j 15:15	15°♈04'55	
retrograde	-1670 Aug 08 j 19:43	18°♈18'02	
opposition	-1670 Oct 23 j 11:49	16°♈16'23	-0°31'55
min. Earth dist.	-1670 Oct 23 j 16:46	16°♈15'52	18.34591 AU
direct	-1669 Jan 06 j 01:58	14°♈15'44	
evening set	-1669 Apr 07 j 21:22	17°♈24'35	
conjunction	-1669 Apr 24 j 14:24	18°♈22'56	-0°27'29
minimum elong	-1669 Apr 24 j 14:24	18°♈22'56	0°27'28
max. Earth dist.	-1669 Apr 24 j 07:56	18°♈21'59	20.31129 AU
morning rise	-1669 May 11 j 09:03	19°♈21'33	
retrograde	-1669 Aug 13 j 12:17	22°♈35'18	
opposition	-1669 Oct 27 j 22:34	20°♈33'33	-0°28'55
min. Earth dist.	-1669 Oct 28 j 04:11	20°♈32'57	18.27626 AU
direct	-1668 Jan 10 j 14:21	18°♈32'32	
evening set	-1668 Apr 11 j 15:07	21°♈42'40	
conjunction	-1668 Apr 28 j 08:46	22°♈41'19	-0°24'41
minimum elong	-1668 Apr 28 j 08:46	22°♈41'19	0°24'40
max. Earth dist.	-1668 Apr 28 j 00:03	22°♈40'03	20.24150 AU
morning rise	-1668 May 15 j 03:46	23°♈40'14	
retrograde	-1668 Aug 17 j 03:26	26°♈54'38	
opposition	-1668 Oct 31 j 10:05	24°♈52'48	-0°25'45
min. Earth dist.	-1668 Oct 31 j 18:22	24°♈51'55	18.20642 AU
direct	-1667 Jan 14 j 01:05	22°♈51'26	
evening set	-1667 Apr 16 j 09:49	26°♈02'54	
conjunction	-1667 May 03 j 04:06	27°♈01'53	-0°21'44
minimum elong	-1667 May 03 j 04:06	27°♈01'53	0°21'42
max. Earth dist.	-1667 May 02 j 17:25	27°♈00'19	20.17168 AU
morning rise	-1667 May 19 j 23:26	28°♈01'05	
	-1667 Jun 27 j 10:09	0°♉	
retrograde	-1667 Aug 21 j 21:55	1°♉16'09	
	-1667 Oct 17 j 16:10	30°℞♈	
opposition	-1667 Nov 04 j 22:19	29°♈14'16	-0°22'23
min. Earth dist.	-1667 Nov 05 j 07:26	29°♈13'17	18.13647 AU
direct	-1666 Jan 18 j 15:15	27°♈12'33	
	-1666 Apr 13 j 19:42	0°♉	
evening set	-1666 Apr 21 j 05:29	0°♉25'22	

Attention, astronomical year style is used: The year -1666 in astronomical counting style is the year 1667 BCE in historical counting style.

max. Earth dist.	-1666 May 07 j 11:34	1°♉22'48	20.10148 AU
conjunction	-1666 May 08 j 00:17	1°♉24'41	-0°18'37
minimum elong	-1666 May 08 j 00:17	1°♉24'41	0°18'36
morning rise	-1666 May 24 j 19:45	2°♉24'09	
retrograde	-1666 Aug 26 j 14:35	5°♉39'54	
opposition	-1666 Nov 09 j 11:31	3°♉37'57	-0°18'52
min. Earth dist.	-1666 Nov 09 j 23:19	3°♉36'41	18.06614 AU
direct	-1665 Jan 23 j 03:39	1°♉35'52	
evening set	-1665 Apr 26 j 02:23	4°♉50'03	
conjunction	-1665 May 12 j 21:36	5°♉49'41	-0°15'23
minimum elong	-1665 May 12 j 21:37	5°♉49'41	0°15'21
behind sun begin	-1665 May 12 j 20:07	5°♉49'28	
behind sun end	-1665 May 12 j 23:07	5°♉49'54	
max. Earth dist.	-1665 May 12 j 06:24	5°♉47'26	20.03102 AU
morning rise	-1665 May 29 j 17:18	6°♉49'26	
retrograde	-1665 Aug 31 j 10:31	10°♉05'51	
opposition	-1665 Nov 14 j 01:15	8°♉03'48	-0°15'12
min. Earth dist.	-1665 Nov 14 j 14:08	8°♉02'25	17.99549 AU
direct	-1664 Jan 27 j 19:53	6°♉01'20	
evening set	-1664 Apr 30 j 00:20	9°♉16'54	
conjunction	-1664 May 16 j 19:58	10°♉16'51	-0°12'01
minimum elong	-1664 May 16 j 19:58	10°♉16'51	0°12'00
behind sun begin	-1664 May 16 j 15:25	10°♉16'11	
behind sun end	-1664 May 17 j 00:31	10°♉17'31	
max. Earth dist.	-1664 May 16 j 02:53	10°♉14'18	19.96010 AU
morning rise	-1664 Jun 02 j 15:32	11°♉16'52	
retrograde	-1664 Sep 04 j 04:25	14°♉33'53	
opposition	-1664 Nov 17 j 16:04	12°♉31'46	-0°11'24
min. Earth dist.	-1664 Nov 18 j 07:29	12°♉30'06	17.92456 AU
direct	-1663 Jan 31 j 10:25	10°♉28'54	
evening set	-1663 May 04 j 23:05	13°♉45'49	
conjunction	-1663 May 21 j 18:53	14°♉46'03	-0°08'34
minimum elong	-1663 May 21 j 18:53	14°♉46'03	0°08'33
behind sun begin	-1663 May 21 j 13:00	14°♉45'12	
behind sun end	-1663 May 22 j 00:46	14°♉46'55	
max. Earth dist.	-1663 May 20 j 23:08	14°♉43'06	19.88931 AU
	-1663 May 25 j 15:29	15°♉	
morning rise	-1663 Jun 07 j 14:30	15°♉46'19	
retrograde	-1663 Sep 09 j 01:02	19°♉03'58	
opposition	-1663 Nov 22 j 07:29	17°♉01'43	-0°07'31
min. Earth dist.	-1663 Nov 22 j 23:54	16°♉59'56	17.85404 AU
	-1662 Jan 28 j 13:14	15°℞♉	
direct	-1662 Feb 05 j 04:59	14°♉58'25	
	-1662 Feb 12 j 21:40	15°♉	
evening set	-1662 May 09 j 22:42	18°♉16'41	
conjunction	-1662 May 26 j 18:46	19°♉17'13	-0°05'03
minimum elong	-1662 May 26 j 18:47	19°♉17'13	0°05'01
behind sun begin	-1662 May 26 j 12:11	19°♉16'15	
behind sun end	-1662 May 27 j 01:23	19°♉18'12	
max. Earth dist.	-1662 May 25 j 21:52	19°♉14'04	19.81912 AU
morning rise	-1662 Jun 12 j 14:04	20°♉17'42	
retrograde	-1662 Sep 13 j 19:29	23°♉35'56	
opposition	-1662 Nov 26 j 23:42	21°♉33'34	-0°03'33
min. Earth dist.	-1662 Nov 27 j 18:14	21°♉31'33	17.78450 AU
direct	-1661 Feb 09 j 21:47	19°♉29'50	
evening set	-1661 May 14 j 23:15	22°♉49'26	
conjunction	-1661 May 31 j 19:16	23°♉50'14	-0°01'26
minimum elong	-1661 May 31 j 19:17	23°♉50'14	0°01'25
behind sun begin	-1661 May 31 j 12:29	23°♉49'14	
behind sun end	-1661 Jun 01 j 02:05	23°♉51'14	
max. Earth dist.	-1661 May 30 j 19:46	23°♉46'40	19.75044 AU
morning rise	-1661 Jun 17 j 14:29	24°♉50'57	
retrograde	-1661 Sep 18 j 16:41	28°♉09'44	
asc. node	-1661 Oct 20 j 18:37	27°♉42'33	
opposition	-1661 Dec 01 j 16:39	26°♉07'13	0°00'27
min. Earth dist.	-1661 Dec 02 j 12:09	26°♉05'06	17.71685 AU
direct	-1660 Feb 14 j 18:29	24°♉03'03	
evening set	-1660 May 19 j 00:28	27°♉23'58	
conjunction	-1660 Jun 04 j 20:34	28°♉25'02	0°02'18
minimum elong	-1660 Jun 04 j 20:35	28°♉25'02	0°02'20
behind sun begin	-1660 Jun 04 j 13:48	28°♉24'01	
behind sun end	-1660 Jun 05 j 03:23	28°♉26'02	
max. Earth dist.	-1660 Jun 03 j 20:36	28°♉21'23	19.68385 AU
morning rise	-1660 Jun 21 j 15:13	29°♉25'56	
	-1660 Jul 01 j 08:44	0°♊	
retrograde	-1660 Sep 22 j 12:12	2°♊45'14	
opposition	-1660 Dec 05 j 10:24	0°♊42'37	0°04'29
min. Earth dist.	-1660 Dec 06 j 07:24	0°♊40'20	17.65169 AU
	-1660 Dec 22 j 01:11	30°℞♉	
direct	-1659 Feb 18 j 14:07	28°♉38'02	
	-1659 Apr 16 j 14:34	0°♊	
evening set	-1659 May 24 j 02:30	2°♊00'14	
conjunction	-1659 Jun 09 j 22:17	3°♊01'30	0°05'55
minimum elong	-1659 Jun 09 j 22:18	3°♊01'31	0°05'57
behind sun begin	-1659 Jun 09 j 15:50	3°♊00'33	
behind sun end	-1659 Jun 10 j 04:46	3°♊02'28	
max. Earth dist.	-1659 Jun 08 j 20:01	2°♊57'29	19.62034 AU
morning rise	-1659 Jun 26 j 16:37	4°♊02'36	
retrograde	-1659 Sep 27 j 09:45	7°♊22'25	
opposition	-1659 Dec 10 j 04:57	5°♊19'41	0°08'31
min. Earth dist.	-1659 Dec 11 j 02:42	5°♊17'19	17.59012 AU
direct	-1658 Feb 23 j 12:05	3°♊14'42	
evening set	-1658 May 29 j 04:55	6°♊38'08	
max. Earth dist.	-1658 Jun 13 j 22:34	7°♊35'37	19.56064 AU
conjunction	-1658 Jun 15 j 00:38	7°♊39'37	0°09'30
minimum elong	-1658 Jun 15 j 00:38	7°♊39'37	0°09'32
behind sun begin	-1658 Jun 14 j 19:03	7°♊38'47	
behind sun end	-1658 Jun 15 j 06:13	7°♊40'27	
morning rise	-1658 Jul 01 j 18:13	8°♊40'52	
retrograde	-1658 Oct 02 j 07:22	12°♊01'10	
opposition	-1658 Dec 15 j 00:19	9°♊58'22	0°12'31
min. Earth dist.	-1658 Dec 15 j 22:52	9°♊55'54	17.53258 AU
direct	-1657 Feb 28 j 10:01	7°♊53'01	
evening set	-1657 Jun 03 j 08:20	11°♊17'39	
max. Earth dist.	-1657 Jun 18 j 23:27	12°♊15'00	19.50541 AU
conjunction	-1657 Jun 20 j 03:30	12°♊19'19	0°13'03
minimum elong	-1657 Jun 20 j 03:30	12°♊19'19	0°13'05
behind sun begin	-1657 Jun 19 j 23:35	12°♊18'44	
behind sun end	-1657 Jun 20 j 07:24	12°♊19'54	
morning rise	-1657 Jul 06 j 20:33	13°♊20'42	
retrograde	-1657 Oct 07 j 05:44	16°♊41'27	
opposition	-1657 Dec 19 j 20:22	14°♊38'37	0°16'27
min. Earth dist.	-1657 Dec 20 j 19:40	14°♊36'04	17.47994 AU
direct	-1656 Mar 04 j 08:52	12°♊32'57	
evening set	-1656 Jun 07 j 12:11	15°♊58'45	
max. Earth dist.	-1656 Jun 23 j 03:35	16°♊56'20	19.45527 AU
conjunction	-1656 Jun 24 j 07:02	17°♊00'35	0°16'32
minimum elong	-1656 Jun 24 j 07:01	17°♊00'35	0°16'33
morning rise	-1656 Jul 10 j 23:09	18°♊02'05	
retrograde	-1656 Oct 11 j 05:38	21°♊23'15	
opposition	-1656 Dec 23 j 17:23	19°♊20'25	0°20'18
min. Earth dist.	-1656 Dec 24 j 16:48	19°♊17'51	17.43245 AU
direct	-1655 Mar 09 j 08:21	17°♊14'31	

Attention, astronomical year style is used: The year -1655 in astronomical counting style is the year 1656 BCE in historical counting style.

evening set	-1655 Jun 12 j 16:33	20°♊41'24	
max. Earth dist.	-1655 Jun 28 j 05:49	21°♊38'53	19.41050 AU
conjunction	-1655 Jun 29 j 10:39	21°♊43'22	0°19'56
minimum elong	-1655 Jun 29 j 10:39	21°♊43'22	0°19'58
morning rise	-1655 Jul 16 j 02:02	22°♊44'58	
retrograde	-1655 Oct 16 j 05:00	26°♊06'33	
opposition	-1655 Dec 28 j 15:08	24°♊03'46	0°24'02
min. Earth dist.	-1655 Dec 29 j 15:22	24°♊01'06	17.39053 AU
direct	-1654 Mar 14 j 07:58	21°♊57'38	
evening set	-1654 Jun 17 j 21:25	25°♊25'34	
max. Earth dist.	-1654 Jul 03 j 10:47	26°♊23'15	19.37126 AU
conjunction	-1654 Jul 04 j 14:57	26°♊27'39	0°23'13
minimum elong	-1654 Jul 04 j 14:57	26°♊27'39	0°23'15
morning rise	-1654 Jul 21 j 05:20	27°♊29'19	
	-1654 Sep 07 j 22:00	0°♋	
retrograde	-1654 Oct 21 j 06:19	0°♋51'15	
	-1654 Dec 04 j 13:43	30°℞♊	
opposition	-1653 Jan 02 j 13:30	28°♊48'33	0°27'38
min. Earth dist.	-1653 Jan 03 j 13:31	28°♊45'55	17.35390 AU
direct	-1653 Mar 19 j 08:54	26°♊42'17	
	-1653 Jun 20 j 01:16	0°♋	
evening set	-1653 Jun 23 j 02:54	0°♋11'09	
conjunction	-1653 Jul 09 j 19:34	1°♋13'19	0°26'22
minimum elong	-1653 Jul 09 j 19:34	1°♋13'19	0°26'24
max. Earth dist.	-1653 Jul 08 j 14:23	1°♋08'45	19.33717 AU
morning rise	-1653 Jul 26 j 08:58	2°♋15'02	
retrograde	-1653 Oct 26 j 06:25	5°♋37'17	
opposition	-1652 Jan 07 j 12:51	3°♋34'40	0°31'03
min. Earth dist.	-1652 Jan 08 j 13:53	3°♋31'55	17.32246 AU
direct	-1652 Mar 23 j 09:58	1°♋28'15	
evening set	-1652 Jun 27 j 08:32	4°♋58'00	
max. Earth dist.	-1652 Jul 12 j 19:34	5°♋55'41	19.30814 AU
conjunction	-1652 Jul 14 j 00:21	6°♋00'12	0°29'21
minimum elong	-1652 Jul 14 j 00:21	6°♋00'12	0°29'24
morning rise	-1652 Jul 30 j 12:38	7°♋01'55	
retrograde	-1652 Oct 30 j 08:16	10°♋24'26	
opposition	-1651 Jan 11 j 12:50	8°♋21'55	0°34'17
min. Earth dist.	-1651 Jan 12 j 13:11	8°♋19'15	17.29582 AU
direct	-1651 Mar 28 j 12:51	6°♋15'25	
evening set	-1651 Jul 02 j 14:28	9°♋45'52	
max. Earth dist.	-1651 Jul 18 j 00:15	10°♋43'32	19.28387 AU
conjunction	-1651 Jul 19 j 05:18	10°♋48'06	0°32'09
minimum elong	-1651 Jul 19 j 05:18	10°♋48'06	0°32'10
morning rise	-1651 Aug 04 j 16:24	11°♋49'48	
retrograde	-1651 Nov 04 j 08:31	15°♋12'31	
opposition	-1650 Jan 16 j 13:32	13°♋10'04	0°37'18
min. Earth dist.	-1650 Jan 17 j 14:50	13°♋07'18	17.27410 AU
direct	-1650 Apr 02 j 15:10	11°♋03'27	
evening set	-1650 Jul 07 j 20:23	14°♋34'32	
max. Earth dist.	-1650 Jul 23 j 05:17	15°♋32'11	19.26455 AU
conjunction	-1650 Jul 24 j 10:11	15°♋36'44	0°34'43
minimum elong	-1650 Jul 24 j 10:11	15°♋36'44	0°34'45
morning rise	-1650 Aug 09 j 20:13	16°♋38'24	
retrograde	-1650 Nov 09 j 10:35	20°♋01'16	
opposition	-1649 Jan 21 j 14:41	17°♋58'52	0°40'02
min. Earth dist.	-1649 Jan 22 j 14:54	17°♋56'13	17.25713 AU
direct	-1649 Apr 07 j 19:52	15°♋52'11	
evening set	-1649 Jul 13 j 02:20	19°♋23'44	
max. Earth dist.	-1649 Jul 28 j 10:50	20°♋21'26	19.24997 AU
conjunction	-1649 Jul 29 j 15:06	20°♋25'54	0°37'03
minimum elong	-1649 Jul 29 j 15:06	20°♋25'54	0°37'05
morning rise	-1649 Aug 14 j 23:47	21°♋27'29	
retrograde	-1649 Nov 14 j 10:36	24°♋50'25	
opposition	-1648 Jan 26 j 16:26	22°♋48'05	0°42'30
min. Earth dist.	-1648 Jan 27 j 17:21	22°♋45'22	17.24514 AU
direct	-1648 Apr 11 j 23:39	20°♋41'21	
evening set	-1648 Jul 17 j 08:09	24°♋13'14	
conjunction	-1648 Aug 02 j 19:40	25°♋15'19	0°39'07
minimum elong	-1648 Aug 02 j 19:40	25°♋15'19	0°39'08
max. Earth dist.	-1648 Aug 01 j 15:29	25°♋10'52	19.24066 AU
morning rise	-1648 Aug 19 j 03:14	26°♋16'49	
retrograde	-1648 Nov 18 j 12:12	29°♋39'46	
opposition	-1647 Jan 30 j 18:29	27°♋37'28	0°44'40
min. Earth dist.	-1647 Jan 31 j 17:50	27°♋34'55	17.23848 AU
direct	-1647 Apr 17 j 05:29	25°♋30'42	
evening set	-1647 Jul 22 j 13:21	29°♋02'46	
	-1647 Aug 06 j 17:50	0°♌	
conjunction	-1647 Aug 07 j 23:49	0°♌04'45	0°40'55
minimum elong	-1647 Aug 07 j 23:49	0°♌04'45	0°40'57
max. Earth dist.	-1647 Aug 06 j 21:21	0°♌00'34	19.23673 AU
morning rise	-1647 Aug 24 j 06:00	1°♌06'08	
retrograde	-1647 Nov 23 j 12:04	4°♌29'01	
opposition	-1646 Feb 04 j 20:57	2°♌26'46	0°46'31
min. Earth dist.	-1646 Feb 05 j 20:28	2°♌24'12	17.23741 AU
direct	-1646 Apr 22 j 10:21	0°♌19'59	
evening set	-1646 Jul 27 j 18:25	3°♌52'07	
max. Earth dist.	-1646 Aug 12 j 01:16	4°♌49'47	19.23867 AU
conjunction	-1646 Aug 13 j 03:31	4°♌53'57	0°42'25
minimum elong	-1646 Aug 13 j 03:31	4°♌53'57	0°42'26
morning rise	-1646 Aug 29 j 08:38	5°♌55'12	
retrograde	-1646 Nov 28 j 13:06	9°♌17'58	
opposition	-1645 Feb 09 j 23:19	7°♌15'45	0°48'01
min. Earth dist.	-1645 Feb 10 j 21:01	7°♌13'23	17.24234 AU
direct	-1645 Apr 27 j 16:32	5°♌08'58	
evening set	-1645 Aug 01 j 22:50	8°♌41'02	
max. Earth dist.	-1645 Aug 17 j 07:04	9°♌38'57	19.24668 AU
conjunction	-1645 Aug 18 j 06:50	9°♌42'43	0°43'37
minimum elong	-1645 Aug 18 j 06:50	9°♌42'43	0°43'38
morning rise	-1645 Sep 03 j 10:31	10°♌43'48	
retrograde	-1645 Dec 03 j 12:51	14°♌06'22	
opposition	-1644 Feb 15 j 02:12	12°♌04'14	0°49'11
min. Earth dist.	-1644 Feb 15 j 23:21	12°♌01'56	17.25353 AU
direct	-1644 May 01 j 21:00	9°♌57'32	
evening set	-1644 Aug 06 j 02:41	13°♌29'23	
max. Earth dist.	-1644 Aug 21 j 10:07	14°♌27'12	19.26122 AU
conjunction	-1644 Aug 22 j 09:14	14°♌30'52	0°44'30
minimum elong	-1644 Aug 22 j 09:14	14°♌30'52	0°44'32
	-1644 Aug 30 j 01:00	15°♌	
morning rise	-1644 Sep 07 j 11:50	15°♌31'45	
retrograde	-1644 Dec 07 j 14:04	18°♌54'08	
opposition	-1643 Feb 19 j 05:03	16°♌52'04	0°50'01
min. Earth dist.	-1643 Feb 20 j 00:03	16°♌50'00	17.27143 AU
	-1643 Apr 13 j 08:10	15°℞♌	
direct	-1643 May 07 j 02:17	14°♌45'28	
	-1643 May 30 j 12:10	15°♌	
evening set	-1643 Aug 11 j 05:48	18°♌17'00	
conjunction	-1643 Aug 27 j 11:15	19°♌18'17	0°45'05
minimum elong	-1643 Aug 27 j 11:15	19°♌18'17	0°45'06
max. Earth dist.	-1643 Aug 26 j 15:08	19°♌15'06	19.28247 AU
morning rise	-1643 Sep 12 j 12:29	20°♌18'59	
retrograde	-1643 Dec 12 j 13:54	23°♌41'05	

Attention, astronomical year style is used: The year -1642 in astronomical counting style is the year 1643 BCE in historical counting style.

opposition	-1642 Feb 24 j 07:52	21°♌39'08	0°50'29
min. Earth dist.	-1642 Feb 25 j 01:39	21°♌37'13	17.29594 AU
direct	-1642 May 12 j 05:43	19°♌32'45	
evening set	-1642 Aug 16 j 08:25	23°♌03'51	
conjunction	-1642 Sep 01 j 12:29	24°♌04'54	0°45'22
minimum elong	-1642 Sep 01 j 12:29	24°♌04'54	0°45'23
max. Earth dist.	-1642 Aug 31 j 17:12	24°♌01'51	19.31035 AU
morning rise	-1642 Sep 17 j 12:42	25°♌05'23	
retrograde	-1642 Dec 17 j 14:50	28°♌27'12	
opposition	-1641 Mar 01 j 10:45	26°♌25'23	0°50'37
min. Earth dist.	-1641 Mar 02 j 02:33	26°♌23'42	17.32698 AU
direct	-1641 May 17 j 10:06	24°♌19'15	
evening set	-1641 Aug 21 j 10:09	27°♌49'49	
conjunction	-1641 Sep 06 j 13:07	28°♌50'38	0°45'20
minimum elong	-1641 Sep 06 j 13:07	28°♌50'38	0°45'20
max. Earth dist.	-1641 Sep 05 j 20:54	28°♌48'04	19.34445 AU
morning rise	-1641 Sep 22 j 12:03	29°♌50'52	
	-1641 Sep 24 j 23:23	0°♍	
retrograde	-1641 Dec 22 j 14:22	3°♍12'21	
opposition	-1640 Mar 05 j 13:37	1°♍10'44	0°50'23
min. Earth dist.	-1640 Mar 06 j 03:40	1°♍09'14	17.36381 AU
	-1640 Apr 03 j 19:04	30°℞♌	
direct	-1640 May 21 j 13:53	29°♌04'55	
	-1640 Jul 06 j 22:36	0°♍	
evening set	-1640 Aug 25 j 11:19	2°♍34'49	
conjunction	-1640 Sep 10 j 12:55	3°♍35'22	0°44'59
minimum elong	-1640 Sep 10 j 12:55	3°♍35'22	0°45'00
max. Earth dist.	-1640 Sep 09 j 21:53	3°♍32'59	19.38412 AU
morning rise	-1640 Sep 26 j 10:53	4°♍35'22	
retrograde	-1640 Dec 26 j 13:57	7°♍56'29	
opposition	-1639 Mar 10 j 16:22	5°♍55'02	0°49'50
min. Earth dist.	-1639 Mar 11 j 04:47	5°♍53'42	17.40609 AU
direct	-1639 May 26 j 17:38	3°♍49'33	
evening set	-1639 Aug 30 j 11:26	7°♍18'42	
conjunction	-1639 Sep 15 j 11:59	8°♍18'58	0°44'20
minimum elong	-1639 Sep 15 j 11:59	8°♍18'58	0°44'21
max. Earth dist.	-1639 Sep 14 j 23:44	8°♍17'02	19.42880 AU
morning rise	-1639 Oct 01 j 08:52	9°♍18'42	
retrograde	-1639 Dec 31 j 12:44	12°♍39'25	
opposition	-1638 Mar 15 j 18:54	10°♍38'08	0°48'56
min. Earth dist.	-1638 Mar 16 j 05:09	10°♍37'02	17.45280 AU
direct	-1638 May 31 j 22:03	8°♍33'01	
evening set	-1638 Sep 04 j 10:59	12°♍01'18	
conjunction	-1638 Sep 20 j 10:16	13°♍01'16	0°43'24
minimum elong	-1638 Sep 20 j 10:17	13°♍01'16	0°43'23
max. Earth dist.	-1638 Sep 19 j 23:27	12°♍59'34	19.47756 AU
morning rise	-1638 Oct 06 j 06:13	14°♍00'44	
retrograde	-1637 Jan 05 j 10:09	17°♍20'59	
opposition	-1637 Mar 20 j 21:10	15°♍19'52	0°47'42
min. Earth dist.	-1637 Mar 21 j 06:12	15°♍18'55	17.50348 AU
direct	-1637 Jun 06 j 01:06	13°♍15'06	
evening set	-1637 Sep 09 j 09:34	16°♍42'25	
conjunction	-1637 Sep 25 j 07:48	17°♍42'05	0°42'10
minimum elong	-1637 Sep 25 j 07:48	17°♍42'05	0°42'10
max. Earth dist.	-1637 Sep 24 j 23:20	17°♍40'46	19.53001 AU
morning rise	-1637 Oct 11 j 02:49	18°♍41'17	
retrograde	-1636 Jan 10 j 08:10	22°♍01'02	
opposition	-1636 Mar 24 j 23:09	20°♍00'03	0°46'10
min. Earth dist.	-1636 Mar 25 j 05:37	19°♍59'22	17.55737 AU
direct	-1636 Jun 10 j 05:04	17°♍55'39	
evening set	-1636 Sep 13 j 07:07	21°♍21'55	

conjunction	-1636 Sep 29 j 04:17	22°♍21'16	0°40'39
minimum elong	-1636 Sep 29 j 04:17	22°♍21'16	0°40'39
max. Earth dist.	-1636 Sep 28 j 21:42	22°♍20'14	19.58537 AU
morning rise	-1636 Oct 14 j 22:28	23°♍20'11	
retrograde	-1635 Jan 14 j 04:02	26°♍39'24	
opposition	-1635 Mar 30 j 00:46	24°♍38'33	0°44'20
min. Earth dist.	-1635 Mar 30 j 06:12	24°♍37'58	17.61413 AU
direct	-1635 Jun 15 j 06:21	22°♍34'29	
evening set	-1635 Sep 18 j 03:47	25°♍59'36	
conjunction	-1635 Oct 03 j 23:59	26°♍58'38	0°38'54
minimum elong	-1635 Oct 03 j 23:59	26°♍58'38	0°38'54
max. Earth dist.	-1635 Oct 03 j 19:19	26°♍57'55	19.64342 AU
morning rise	-1635 Oct 19 j 17:27	27°♍57'16	
	-1635 Nov 26 j 08:53	0°♎	
retrograde	-1634 Jan 19 j 01:02	1°♎15'54	
	-1634 Mar 16 j 19:10	30°℞♍	
opposition	-1634 Apr 04 j 01:32	29°♍15'09	0°42'13
min. Earth dist.	-1634 Apr 04 j 04:12	29°♍14'52	17.67318 AU
direct	-1634 Jun 20 j 08:58	27°♍11'26	
	-1634 Sep 13 j 02:28	0°♎	
evening set	-1634 Sep 22 j 23:25	0°♎35'21	
conjunction	-1634 Oct 08 j 18:44	1°♎34'04	0°36'53
minimum elong	-1634 Oct 08 j 18:44	1°♎34'04	0°36'53
max. Earth dist.	-1634 Oct 08 j 16:17	1°♎33'41	19.70357 AU
morning rise	-1634 Oct 24 j 11:29	2°♎32'25	
retrograde	-1633 Jan 23 j 19:21	5°♎50'26	
opposition	-1633 Apr 09 j 02:03	3°♎49'46	0°39'51
min. Earth dist.	-1633 Apr 09 j 03:46	3°♎49'35	17.73442 AU
direct	-1633 Jun 25 j 08:30	1°♎46'24	
evening set	-1633 Sep 27 j 17:52	5°♎09'01	
conjunction	-1633 Oct 13 j 12:17	6°♎07'24	0°34'40
minimum elong	-1633 Oct 13 j 12:17	6°♎07'24	0°34'40
max. Earth dist.	-1633 Oct 13 j 11:39	6°♎07'18	19.76595 AU
morning rise	-1633 Oct 29 j 04:31	7°♎05'28	
retrograde	-1632 Jan 28 j 15:12	10°♎22'51	
opposition	-1632 Apr 13 j 01:46	8°♎22'15	0°37'14
min. Earth dist.	-1632 Apr 13 j 00:19	8°♎22'24	17.79775 AU
direct	-1632 Jun 29 j 09:15	6°♎19'13	
evening set	-1632 Oct 01 j 11:14	9°♎40'31	
conjunction	-1632 Oct 17 j 04:57	10°♎38'35	0°32'14
minimum elong	-1632 Oct 17 j 04:57	10°♎38'35	0°32'15
max. Earth dist.	-1632 Oct 17 j 07:07	10°♎38'55	19.83037 AU
morning rise	-1632 Nov 01 j 20:35	11°♎36'22	
retrograde	-1631 Feb 01 j 08:06	14°♎53'05	
opposition	-1631 Apr 18 j 00:48	12°♎52'33	0°34'26
min. Earth dist.	-1631 Apr 17 j 22:17	12°♎52'49	17.86335 AU
direct	-1631 Jul 04 j 07:01	10°♎49'53	
evening set	-1631 Oct 06 j 03:31	14°♎09'49	
conjunction	-1631 Oct 21 j 20:28	15°♎07'34	0°29'38
minimum elong	-1631 Oct 21 j 20:28	15°♎07'34	0°29'37
max. Earth dist.	-1631 Oct 22 j 00:18	15°♎08'10	19.89715 AU
morning rise	-1631 Nov 06 j 11:47	16°♎05'05	
retrograde	-1630 Feb 06 j 02:27	19°♎21'09	
opposition	-1630 Apr 22 j 22:57	17°♎20'41	0°31'26
min. Earth dist.	-1630 Apr 22 j 17:08	17°♎21'18	17.93120 AU
direct	-1630 Jul 09 j 05:16	15°♎18'23	
evening set	-1630 Oct 10 j 18:44	18°♎36'58	
conjunction	-1630 Oct 26 j 11:06	19°♎34'25	0°26'53
minimum elong	-1630 Oct 26 j 11:06	19°♎34'25	0°26'52
max. Earth dist.	-1630 Oct 26 j 18:02	19°♎35'29	19.96605 AU
morning rise	-1630 Nov 11 j 01:55	20°♎31'40	

Attention, astronomical year style is used: The year -1629 in astronomical counting style is the year 1630 BCE in historical counting style.

retrograde	-1629 Feb 10 j 18:15	23°♎47'04	
opposition	-1629 Apr 27 j 20:32	21°♎46'44	0°28'16
min. Earth dist.	-1629 Apr 27 j 13:25	21°♎47'28	18.00120 AU
direct	-1629 Jul 14 j 01:24	19°♎44'51	
evening set	-1629 Oct 15 j 09:05	23°♎02'05	
conjunction	-1629 Oct 31 j 00:46	23°♎59'13	0°24'00
minimum elong	-1629 Oct 31 j 00:46	23°♎59'13	0°23'58
max. Earth dist.	-1629 Oct 31 j 09:09	24°♎00'29	20.03714 AU
morning rise	-1629 Nov 15 j 15:27	24°♎56'12	
retrograde	-1628 Feb 15 j 11:39	28°♎10'58	
opposition	-1628 May 01 j 17:14	26°♎10'46	0°24'59
min. Earth dist.	-1628 May 01 j 06:54	26°♎11'49	18.07317 AU
direct	-1628 Jul 17 j 21:01	24°♎09'19	
evening set	-1628 Oct 18 j 22:13	27°♎25'12	
conjunction	-1628 Nov 03 j 13:35	28°♎22'03	0°20'59
minimum elong	-1628 Nov 03 j 13:35	28°♎22'03	0°20'58
max. Earth dist.	-1628 Nov 04 j 01:05	28°♎23'48	20.10979 AU
morning rise	-1628 Nov 19 j 03:57	29°♎18'47	
	-1628 Nov 30 j 23:51	0°♏	
retrograde	-1627 Feb 19 j 02:24	2°♏32'56	
opposition	-1627 May 06 j 13:17	0°♏32'53	0°21'34
min. Earth dist.	-1627 May 06 j 01:46	0°♏34'04	18.14635 AU
	-1627 May 20 j 02:37	30°℞♎	
direct	-1627 Jul 22 j 15:56	28°♎31'55	
	-1627 Sep 20 j 11:09	0°♏	
evening set	-1627 Oct 23 j 10:44	1°♏46'28	
conjunction	-1627 Nov 08 j 01:34	2°♏43'02	0°17'53
minimum elong	-1627 Nov 08 j 01:34	2°♏43'02	0°17'52
max. Earth dist.	-1627 Nov 08 j 14:05	2°♏44'55	20.18340 AU
morning rise	-1627 Nov 23 j 15:58	3°♏39'31	
retrograde	-1626 Feb 23 j 18:48	6°♏53'04	
opposition	-1626 May 11 j 08:20	4°♏53'10	0°18'03
min. Earth dist.	-1626 May 10 j 18:07	4°♏54'37	18.22015 AU
direct	-1626 Jul 27 j 09:35	2°♏52'39	
evening set	-1626 Oct 27 j 22:17	6°♏05'55	
conjunction	-1626 Nov 12 j 12:55	7°♏02'12	0°14'41
minimum elong	-1626 Nov 12 j 12:55	7°♏02'12	0°14'40
behind sun begin	-1626 Nov 12 j 09:58	7°♏01'46	
behind sun end	-1626 Nov 12 j 15:52	7°♏02'38	
max. Earth dist.	-1626 Nov 13 j 04:19	7°♏04'31	20.25713 AU
morning rise	-1626 Nov 28 j 03:06	7°♏58'27	
retrograde	-1625 Feb 28 j 08:20	11°♏11'24	
min. Earth dist.	-1625 May 15 j 11:42	9°♏13'14	18.29367 AU
opposition	-1625 May 16 j 02:57	9°♏11'41	0°14'28
direct	-1625 Aug 01 j 03:18	7°♏11'39	
evening set	-1625 Nov 01 j 09:04	10°♏23'36	
conjunction	-1625 Nov 16 j 23:17	11°♏19'36	0°11'26
minimum elong	-1625 Nov 16 j 23:17	11°♏19'36	0°11'26
behind sun begin	-1625 Nov 16 j 18:28	11°♏18'54	
behind sun end	-1625 Nov 17 j 04:05	11°♏20'19	
max. Earth dist.	-1625 Nov 17 j 15:23	11°♏22'02	20.33030 AU
morning rise	-1625 Dec 02 j 13:40	12°♏15'38	
	-1624 Jan 30 j 19:04	15°♏	
retrograde	-1624 Mar 03 j 23:37	15°♏28'01	
	-1624 Apr 07 j 00:16	15°℞♏	
opposition	-1624 May 19 j 20:46	13°♏28'26	0°10'49
min. Earth dist.	-1624 May 19 j 03:18	13°♏30'12	18.36632 AU
direct	-1624 Aug 04 j 19:34	11°♏28'50	
evening set	-1624 Nov 04 j 19:07	14°♏39'31	
	-1624 Nov 10 j 13:44	15°♏	
conjunction	-1624 Nov 20 j 09:17	15°♏35'17	0°08'09
minimum elong	-1624 Nov 20 j 09:17	15°♏35'17	0°08'07
behind sun begin	-1624 Nov 20 j 03:27	15°♏34'25	
behind sun end	-1624 Nov 20 j 15:07	15°♏36'08	
max. Earth dist.	-1624 Nov 21 j 03:57	15°♏38'04	20.40207 AU
morning rise	-1624 Dec 05 j 23:36	16°♏31'05	
retrograde	-1623 Mar 08 j 11:37	19°♏42'53	
opposition	-1623 May 24 j 13:42	17°♏43'27	0°07'08
min. Earth dist.	-1623 May 23 j 19:27	17°♏45'18	18.43715 AU
direct	-1623 Aug 09 j 11:36	15°♏44'16	
evening set	-1623 Nov 09 j 04:34	18°♏53'43	
conjunction	-1623 Nov 24 j 18:28	19°♏49'13	0°04'51
minimum elong	-1623 Nov 24 j 18:28	19°♏49'13	0°04'50
behind sun begin	-1623 Nov 24 j 12:06	19°♏48'17	
behind sun end	-1623 Nov 25 j 00:51	19°♏50'09	
max. Earth dist.	-1623 Nov 25 j 13:19	19°♏52'02	20.47176 AU
morning rise	-1623 Dec 10 j 09:07	20°♏44'49	
retrograde	-1622 Mar 13 j 01:31	23°♏56'04	
min. Earth dist.	-1622 May 28 j 10:05	21°♏58'44	18.50562 AU
opposition	-1622 May 29 j 05:57	21°♏56'43	0°03'26
direct	-1622 Aug 14 j 02:03	19°♏57'54	
evening set	-1622 Nov 13 j 13:06	23°♏06'08	
conjunction	-1622 Nov 29 j 03:07	24°♏01'25	0°01'30
minimum elong	-1622 Nov 29 j 03:06	24°♏01'25	0°01'28
behind sun begin	-1622 Nov 28 j 20:34	24°♏00'28	
behind sun end	-1622 Nov 29 j 09:38	24°♏02'22	
max. Earth dist.	-1622 Nov 30 j 00:13	24°♏04'33	20.53867 AU
morning rise	-1622 Dec 14 j 17:48	24°♏56'49	
retrograde	-1621 Mar 17 j 11:50	28°♏07'31	
desc. node	-1621 May 08 j 18:30	27°♏06'19	
opposition	-1621 Jun 02 j 21:31	26°♏08'15	-0°00'15
min. Earth dist.	-1621 Jun 02 j 00:50	26°♏10'20	18.57098 AU
direct	-1621 Aug 18 j 16:29	24°♏09'46	
evening set	-1621 Nov 17 j 21:09	27°♏16'49	
conjunction	-1621 Dec 03 j 11:02	28°♏11'52	-0°01'56
minimum elong	-1621 Dec 03 j 11:02	28°♏11'52	0°01'57
behind sun begin	-1621 Dec 03 j 04:30	28°♏10'55	
behind sun end	-1621 Dec 03 j 17:34	28°♏12'48	
max. Earth dist.	-1621 Dec 04 j 08:08	28°♏14'59	20.60247 AU
morning rise	-1621 Dec 19 j 02:13	29°♏07'06	
	-1620 Jan 03 j 21:07	0°♐	
retrograde	-1620 Mar 21 j 00:04	2°♐17'14	
opposition	-1620 Jun 06 j 12:13	0°♐18'01	-0°03'55
min. Earth dist.	-1620 Jun 05 j 14:20	0°♐20'12	18.63324 AU
	-1620 Jun 14 j 00:24	30°℞♏	
direct	-1620 Aug 22 j 04:57	28°♏19'48	
	-1620 Oct 25 j 12:31	0°♐	
evening set	-1620 Nov 21 j 04:16	1°♐25'41	
conjunction	-1620 Dec 06 j 18:27	2°♐20'33	-0°05'13
minimum elong	-1620 Dec 06 j 18:27	2°♐20'33	0°05'14
behind sun begin	-1620 Dec 06 j 12:07	2°♐19'38	
behind sun end	-1620 Dec 07 j 00:47	2°♐21'27	
max. Earth dist.	-1620 Dec 07 j 17:41	2°♐23'59	20.66301 AU
morning rise	-1620 Dec 22 j 09:52	3°♐15'37	
retrograde	-1619 Mar 25 j 09:25	6°♐25'12	
min. Earth dist.	-1619 Jun 10 j 03:23	4°♐28'16	18.69211 AU
opposition	-1619 Jun 11 j 02:04	4°♐26'00	-0°07'31
direct	-1619 Aug 26 j 17:38	2°♐28'03	
evening set	-1619 Nov 25 j 10:56	5°♐32'48	
conjunction	-1619 Dec 11 j 01:07	6°♐27'28	-0°08'26
minimum elong	-1619 Dec 11 j 01:06	6°♐27'28	0°08'28
behind sun begin	-1619 Dec 10 j 19:21	6°♐26'39	
behind sun end	-1619 Dec 11 j 06:51	6°♐28'18	

Attention, astronomical year style is used: The year -1619 in astronomical counting style is the year 1620 BCE in historical counting style.

max. Earth dist.	-1619 Dec 12 j 00:17	6°♐30'53	20.72032 AU
morning rise	-1619 Dec 26 j 17:06	7°♐22'23	
retrograde	-1618 Mar 29 j 19:42	10°♐31'28	
opposition	-1618 Jun 15 j 15:03	8°♐32'15	-0°11'03
min. Earth dist.	-1618 Jun 14 j 15:26	8°♐34'37	18.74805 AU
direct	-1618 Aug 31 j 03:55	6°♐34'31	
evening set	-1618 Nov 29 j 16:50	9°♐38'14	
conjunction	-1618 Dec 15 j 07:24	10°♐32'44	-0°11'35
minimum elong	-1618 Dec 15 j 07:24	10°♐32'44	0°11'36
behind sun begin	-1618 Dec 15 j 02:40	10°♐32'03	
behind sun end	-1618 Dec 15 j 12:08	10°♐33'24	
max. Earth dist.	-1618 Dec 16 j 08:46	10°♐36'27	20.77477 AU
morning rise	-1618 Dec 30 j 23:41	11°♐27'30	
retrograde	-1617 Apr 03 j 04:44	14°♐36'05	
min. Earth dist.	-1617 Jun 19 j 02:44	12°♐39'21	18.80118 AU
opposition	-1617 Jun 20 j 03:23	12°♐36'53	-0°14'31
direct	-1617 Sep 04 j 15:04	10°♐39'23	
evening set	-1617 Dec 03 j 22:18	13°♐42'06	
conjunction	-1617 Dec 19 j 12:59	14°♐36'27	-0°14'39
minimum elong	-1617 Dec 19 j 12:59	14°♐36'27	0°14'42
behind sun begin	-1617 Dec 19 j 10:06	14°♐36'02	
behind sun end	-1617 Dec 19 j 15:52	14°♐36'51	
max. Earth dist.	-1617 Dec 20 j 14:19	14°♐40'08	20.82661 AU
morning rise	-1616 Jan 04 j 05:59	15°♐31'06	
retrograde	-1616 Apr 06 j 14:00	18°♐39'16	
opposition	-1616 Jun 23 j 15:01	16°♐40'04	-0°17'52
min. Earth dist.	-1616 Jun 22 j 13:37	16°♐42'36	18.85186 AU
direct	-1616 Sep 07 j 23:28	14°♐42'47	
evening set	-1616 Dec 07 j 03:16	17°♐44'36	
conjunction	-1616 Dec 22 j 18:29	18°♐38'49	-0°17'39
minimum elong	-1616 Dec 22 j 18:29	18°♐38'49	0°17'40
max. Earth dist.	-1616 Dec 23 j 21:46	18°♐42'47	20.87587 AU
morning rise	-1615 Jan 07 j 11:54	19°♐33'21	
retrograde	-1615 Apr 10 j 22:38	22°♐41'07	
min. Earth dist.	-1615 Jun 26 j 23:23	20°♐44'35	18.89975 AU
opposition	-1615 Jun 28 j 01:42	20°♐41'57	-0°21'07
direct	-1615 Sep 12 j 08:47	18°♐44'55	
evening set	-1615 Dec 11 j 07:59	21°♐45'55	
conjunction	-1615 Dec 26 j 23:27	22°♐40'01	-0°20'32
minimum elong	-1615 Dec 26 j 23:27	22°♐40'01	0°20'33
max. Earth dist.	-1615 Dec 28 j 02:23	22°♐43'55	20.92237 AU
morning rise	-1614 Jan 11 j 17:40	23°♐34'28	
retrograde	-1614 Apr 15 j 07:24	26°♐41'54	
min. Earth dist.	-1614 Jul 01 j 09:22	24°♐45'27	18.94486 AU
opposition	-1614 Jul 02 j 12:03	24°♐42'48	-0°24'15
direct	-1614 Sep 16 j 15:53	22°♐45'59	
evening set	-1614 Dec 15 j 12:07	25°♐46'14	
conjunction	-1614 Dec 31 j 04:13	26°♐40'14	-0°23'19
minimum elong	-1614 Dec 31 j 04:12	26°♐40'14	0°23'20
max. Earth dist.	-1613 Jan 01 j 08:53	26°♐44'23	20.96582 AU
morning rise	-1613 Jan 15 j 22:55	27°♐34'38	
	-1613 Mar 08 j 21:51	0°♑	
retrograde	-1613 Apr 19 j 15:45	0°♑41'46	
	-1613 Jun 01 j 17:42	30°℞♐	
opposition	-1613 Jul 06 j 21:46	28°♐42'44	-0°27'16
min. Earth dist.	-1613 Jul 05 j 18:18	28°♐45'29	18.98660 AU
direct	-1613 Sep 20 j 23:34	26°♐46'10	
evening set	-1613 Dec 19 j 16:19	29°♐45'45	
	-1613 Dec 23 j 20:56	0°♑	
conjunction	-1612 Jan 04 j 08:46	0°♑39'41	-0°25'58
minimum elong	-1612 Jan 04 j 08:46	0°♑39'41	0°25'59
max. Earth dist.	-1612 Jan 05 j 12:47	0°♑43'43	21.00579 AU
morning rise	-1612 Jan 20 j 04:24	1°♑34'01	
retrograde	-1612 Apr 23 j 00:15	4°♑40'56	
min. Earth dist.	-1612 Jul 09 j 03:41	2°♑44'40	19.02474 AU
opposition	-1612 Jul 10 j 06:58	2°♑41'57	-0°30'08
direct	-1612 Sep 24 j 05:37	0°♑45'36	
evening set	-1612 Dec 22 j 20:14	3°♑44'37	
conjunction	-1611 Jan 07 j 13:27	4°♑38'29	-0°28'30
minimum elong	-1611 Jan 07 j 13:27	4°♑38'29	0°28'32
max. Earth dist.	-1611 Jan 08 j 18:44	4°♑42'41	21.04178 AU
morning rise	-1611 Jan 23 j 09:40	5°♑32'47	
retrograde	-1611 Apr 27 j 08:27	8°♑39'29	
min. Earth dist.	-1611 Jul 13 j 11:58	6°♑43'21	19.05847 AU
opposition	-1611 Jul 14 j 15:38	6°♑40'36	-0°32'51
direct	-1611 Sep 28 j 12:08	4°♑44'27	
evening set	-1611 Dec 27 j 00:11	7°♑42'57	
conjunction	-1610 Jan 11 j 17:50	8°♑36'46	-0°30'54
minimum elong	-1610 Jan 11 j 17:50	8°♑36'46	0°30'55
max. Earth dist.	-1610 Jan 12 j 22:00	8°♑40'49	21.07315 AU
morning rise	-1610 Jan 27 j 14:59	9°♑31'04	
retrograde	-1610 May 01 j 16:33	12°♑37'37	
min. Earth dist.	-1610 Jul 17 j 21:04	10°♑41'27	19.08744 AU
opposition	-1610 Jul 19 j 00:00	10°♑38'46	-0°35'24
direct	-1610 Oct 02 j 17:12	8°♑42'48	
evening set	-1610 Dec 31 j 04:03	11°♑40'51	
conjunction	-1609 Jan 15 j 22:32	12°♑34'39	-0°33'08
minimum elong	-1609 Jan 15 j 22:32	12°♑34'39	0°33'11
max. Earth dist.	-1609 Jan 17 j 03:33	12°♑38'48	21.09944 AU
morning rise	-1609 Jan 31 j 20:20	13°♑28'56	
retrograde	-1609 May 06 j 00:50	16°♑35'22	
min. Earth dist.	-1609 Jul 22 j 04:56	14°♑39'15	19.11097 AU
opposition	-1609 Jul 23 j 07:56	14°♑36'33	-0°37'47
direct	-1609 Oct 06 j 23:31	12°♑40'42	
evening set	-1608 Jan 04 j 08:02	15°♑38'23	
conjunction	-1608 Jan 20 j 03:06	16°♑32'11	-0°35'13
minimum elong	-1608 Jan 20 j 03:06	16°♑32'11	0°35'14
max. Earth dist.	-1608 Jan 21 j 06:33	16°♑36'06	21.12011 AU
morning rise	-1608 Feb 05 j 01:57	17°♑26'29	
retrograde	-1608 May 09 j 08:38	20°♑32'49	
opposition	-1608 Jul 26 j 15:37	18°♑34'00	-0°39'59
min. Earth dist.	-1608 Jul 25 j 13:50	18°♑36'34	19.12874 AU
direct	-1608 Oct 10 j 03:31	16°♑38'13	
evening set	-1607 Jan 07 j 11:59	19°♑35'34	
conjunction	-1607 Jan 23 j 08:00	20°♑29'23	-0°37'07
minimum elong	-1607 Jan 23 j 08:00	20°♑29'23	0°37'09
max. Earth dist.	-1607 Jan 24 j 11:51	20°♑33'21	21.13484 AU
morning rise	-1607 Feb 08 j 07:34	21°♑23'42	
retrograde	-1607 May 13 j 16:44	24°♑29'57	
opposition	-1607 Jul 30 j 22:40	22°♑31'05	-0°42'00
min. Earth dist.	-1607 Jul 29 j 21:04	22°♑33'39	19.14043 AU
direct	-1607 Oct 14 j 09:53	20°♑35'19	
evening set	-1606 Jan 11 j 16:02	23°♑32'25	
conjunction	-1606 Jan 27 j 12:42	24°♑26'15	-0°38'51
minimum elong	-1606 Jan 27 j 12:42	24°♑26'15	0°38'53
max. Earth dist.	-1606 Jan 28 j 14:47	24°♑29'58	21.14368 AU
morning rise	-1606 Feb 12 j 13:22	25°♑20'38	
retrograde	-1606 May 18 j 00:05	28°♑26'49	
min. Earth dist.	-1606 Aug 03 j 05:25	26°♑30'17	19.14650 AU
opposition	-1606 Aug 04 j 05:38	26°♑27'52	-0°43'48
direct	-1606 Oct 18 j 13:13	24°♑32'04	
evening set	-1605 Jan 15 j 19:50	27°♑28'57	

Attention, astronomical year style is used: The year -1605 in astronomical counting style is the year 1606 BCE in historical counting style.

conjunction	-1605 Jan 31 j 17:32	28°♒22'50	-0°40'23
minimum elong	-1605 Jan 31 j 17:32	28°♒22'50	0°40'25
max. Earth dist.	-1605 Feb 01 j 20:06	28°♒26'37	21.14707 AU
morning rise	-1605 Feb 16 j 18:59	29°♒17'17	
	-1605 Mar 01 j 23:47	0°♓	
retrograde	-1605 May 22 j 07:52	2°♓23'26	
opposition	-1605 Aug 08 j 12:07	0°♓24'23	-0°45'23
min. Earth dist.	-1605 Aug 07 j 12:00	0°♓26'48	19.14726 AU
	-1605 Aug 18 j 17:21	30°♑♒	
direct	-1605 Oct 22 j 19:20	28°♒28'32	
	-1605 Dec 23 j 07:52	0°♓	
evening set	-1604 Jan 20 j 00:04	1°♓25'16	
conjunction	-1604 Feb 04 j 22:30	2°♓19'14	-0°41'44
minimum elong	-1604 Feb 04 j 22:30	2°♓19'14	0°41'46
max. Earth dist.	-1604 Feb 05 j 23:17	2°♓22'45	21.14544 AU
morning rise	-1604 Feb 21 j 01:05	3°♓13'45	
retrograde	-1604 May 25 j 15:23	6°♓19'55	
opposition	-1604 Aug 11 j 18:18	4°♓20'44	-0°46'45
min. Earth dist.	-1604 Aug 10 j 19:42	4°♓23'00	19.14340 AU
direct	-1604 Oct 25 j 22:31	2°♓24'47	
evening set	-1603 Jan 23 j 04:19	5°♓21'29	
conjunction	-1603 Feb 08 j 03:50	6°♓15'32	-0°42'53
minimum elong	-1603 Feb 08 j 03:50	6°♓15'32	0°42'54
max. Earth dist.	-1603 Feb 09 j 04:56	6°♓19'06	21.13933 AU
morning rise	-1603 Feb 24 j 07:13	7°♓10'09	
retrograde	-1603 May 29 j 22:52	10°♓16'21	
min. Earth dist.	-1603 Aug 15 j 01:40	8°♓19'21	19.13512 AU
opposition	-1603 Aug 16 j 00:13	8°♓17'04	-0°47'55
direct	-1603 Oct 30 j 03:49	6°♓21'03	
evening set	-1602 Jan 27 j 08:50	9°♓17'46	
conjunction	-1602 Feb 12 j 09:06	10°♓11'55	-0°43'49
minimum elong	-1602 Feb 12 j 09:06	10°♓11'55	0°43'51
max. Earth dist.	-1602 Feb 13 j 08:21	10°♓15'13	21.12903 AU
morning rise	-1602 Feb 28 j 13:37	11°♓06'38	
retrograde	-1602 Jun 03 j 06:55	14°♓12'58	
min. Earth dist.	-1602 Aug 19 j 09:08	12°♓15'41	19.12289 AU
opposition	-1602 Aug 20 j 06:10	12°♓13'34	-0°48'51
direct	-1602 Nov 03 j 07:05	10°♓17'26	
evening set	-1601 Jan 31 j 13:36	13°♓14'16	
conjunction	-1601 Feb 16 j 15:01	14°♓08'33	-0°44'34
minimum elong	-1601 Feb 16 j 15:01	14°♓08'33	0°44'34
max. Earth dist.	-1601 Feb 17 j 14:29	14°♓11'53	21.11486 AU
	-1601 Mar 03 j 19:52	15°♓	
morning rise	-1601 Mar 04 j 20:21	15°♓03'24	
retrograde	-1601 Jun 07 j 14:38	18°♓09'53	
opposition	-1601 Aug 24 j 11:50	16°♓10'24	-0°49'33
min. Earth dist.	-1601 Aug 23 j 14:57	16°♓12'30	19.10672 AU
	-1601 Sep 24 j 15:24	15°♑♓	
direct	-1601 Nov 07 j 11:46	14°♓14'09	
	-1601 Dec 20 j 03:36	15°♓	
evening set	-1600 Feb 04 j 18:55	17°♓11'12	
conjunction	-1600 Feb 20 j 21:12	18°♓05'37	-0°45'06
minimum elong	-1600 Feb 20 j 21:12	18°♓05'37	0°45'07
max. Earth dist.	-1600 Feb 21 j 18:32	18°♓08'38	21.09680 AU
morning rise	-1600 Mar 08 j 03:43	19°♓00'37	
retrograde	-1600 Jun 10 j 22:53	22°♓07'18	
opposition	-1600 Aug 27 j 17:40	20°♓07'44	-0°50'01
min. Earth dist.	-1600 Aug 26 j 22:37	20°♓09'39	19.08670 AU
direct	-1600 Nov 10 j 15:16	18°♓11'23	
evening set	-1599 Feb 08 j 00:35	21°♓08'42	
conjunction	-1599 Feb 24 j 04:02	22°♓03'17	-0°45'25
minimum elong	-1599 Feb 24 j 04:02	22°♓03'17	0°45'26
max. Earth dist.	-1599 Feb 25 j 01:17	22°♓06'18	21.07478 AU
morning rise	-1599 Mar 12 j 11:21	22°♓58'26	
retrograde	-1599 Jun 15 j 07:37	26°♓05'22	
opposition	-1599 Aug 31 j 23:18	24°♓05'44	-0°50'16
min. Earth dist.	-1599 Aug 31 j 04:40	24°♓07'38	19.06254 AU
direct	-1599 Nov 14 j 20:02	22°♓09'17	
evening set	-1598 Feb 12 j 06:56	25°♓06'59	
conjunction	-1598 Feb 28 j 11:13	26°♓01'44	-0°45'31
minimum elong	-1598 Feb 28 j 11:13	26°♓01'44	0°45'32
max. Earth dist.	-1598 Mar 01 j 06:05	26°♓04'25	21.04861 AU
morning rise	-1598 Mar 16 j 19:41	26°♓57'04	
	-1598 Jun 06 j 08:40	0°♓	
retrograde	-1598 Jun 19 j 15:49	0°♓04'18	
	-1598 Jul 02 j 23:22	30°♑♓	
opposition	-1598 Sep 05 j 05:16	28°♓04'36	-0°50'16
min. Earth dist.	-1598 Sep 04 j 12:51	28°♓06'17	19.03422 AU
direct	-1598 Nov 18 j 23:39	26°♓08'01	
evening set	-1597 Feb 16 j 13:39	29°♓06'10	
conjunction	-1597 Mar 04 j 19:10	0°♓01'07	-0°45'25
minimum elong	-1597 Mar 04 j 19:10	0°♓01'07	0°45'26
	-1597 Mar 04 j 11:17	0°♓	
max. Earth dist.	-1597 Mar 05 j 13:36	0°♓03'44	21.01806 AU
morning rise	-1597 Mar 21 j 04:28	0°♓56'37	
retrograde	-1597 Jun 24 j 02:04	4°♓04'12	
opposition	-1597 Sep 09 j 11:16	2°♓04'27	-0°50'01
min. Earth dist.	-1597 Sep 08 j 19:38	2°♓06'02	19.00119 AU
direct	-1597 Nov 23 j 05:11	0°♓07'42	
evening set	-1596 Feb 20 j 21:24	3°♓06'23	
conjunction	-1596 Mar 08 j 03:47	4°♓01'33	-0°45'05
minimum elong	-1596 Mar 08 j 03:47	4°♓01'33	0°45'04
max. Earth dist.	-1596 Mar 08 j 19:18	4°♓03'45	20.98259 AU
morning rise	-1596 Mar 24 j 14:12	4°♓57'15	
retrograde	-1596 Jun 27 j 10:32	8°♓05'12	
opposition	-1596 Sep 12 j 17:28	6°♓05'22	-0°49'32
min. Earth dist.	-1596 Sep 12 j 04:32	6°♓06'41	18.96318 AU
direct	-1596 Nov 26 j 09:03	4°♓08'24	
evening set	-1595 Feb 24 j 05:39	7°♓07'42	
conjunction	-1595 Mar 12 j 13:15	8°♓03'05	-0°44'31
minimum elong	-1595 Mar 12 j 13:15	8°♓03'05	0°44'32
max. Earth dist.	-1595 Mar 13 j 03:46	8°♓05'09	20.94198 AU
morning rise	-1595 Mar 29 j 00:27	8°♓59'00	
retrograde	-1595 Jul 01 j 21:39	12°♓07'21	
opposition	-1595 Sep 16 j 23:53	10°♓07'23	-0°48'48
min. Earth dist.	-1595 Sep 16 j 11:57	10°♓08'37	18.91982 AU
direct	-1595 Nov 30 j 15:50	8°♓10'12	
evening set	-1594 Feb 28 j 14:37	11°♓10'08	
conjunction	-1594 Mar 16 j 23:05	12°♓05'46	-0°43'44
minimum elong	-1594 Mar 16 j 23:05	12°♓05'46	0°43'44
max. Earth dist.	-1594 Mar 17 j 10:27	12°♓07'23	20.89604 AU
morning rise	-1594 Apr 02 j 11:21	13°♓01'55	
retrograde	-1594 Jul 06 j 06:42	16°♓10'41	
opposition	-1594 Sep 21 j 06:46	14°♓10'34	-0°47'49
min. Earth dist.	-1594 Sep 20 j 21:36	14°♓11'30	18.87132 AU
direct	-1594 Dec 04 j 20:34	12°♓13'04	
evening set	-1593 Mar 05 j 00:14	15°♓13'43	
conjunction	-1593 Mar 21 j 09:55	16°♓09'36	-0°42'43
minimum elong	-1593 Mar 21 j 09:56	16°♓09'36	0°42'44
max. Earth dist.	-1593 Mar 21 j 20:08	16°♓11'04	20.84519 AU
morning rise	-1593 Apr 06 j 22:58	17°♓05'59	
retrograde	-1593 Jul 10 j 18:15	20°♓15'10	

Attention, astronomical year style is used: The year -1593 in astronomical counting style is the year 1594 BCE in historical counting style.

opposition	-1593 Sep 25 j 13:35	18°♓14'53	-0°46'35
min. Earth dist.	-1593 Sep 25 j 05:25	18°♓15'44	18.81806 AU
direct	-1593 Dec 09 j 04:29	16°♓17'04	
evening set	-1592 Mar 08 j 10:45	19°♓18'29	
conjunction	-1592 Mar 24 j 21:20	20°♓14'38	-0°41'29
minimum elong	-1592 Mar 24 j 21:20	20°♓14'38	0°41'29
max. Earth dist.	-1592 Mar 25 j 04:22	20°♓15'39	20.78985 AU
morning rise	-1592 Apr 10 j 11:23	21°♓11'16	
retrograde	-1592 Jul 14 j 04:05	24°♓20'55	
opposition	-1592 Sep 28 j 20:55	22°♓20'25	-0°45'06
min. Earth dist.	-1592 Sep 28 j 15:33	22°♓20'59	18.76076 AU
direct	-1592 Dec 12 j 10:15	20°♓22'14	
evening set	-1591 Mar 12 j 21:45	23°♓24'30	
conjunction	-1591 Mar 29 j 09:28	24°♓20'56	-0°40'02
minimum elong	-1591 Mar 29 j 09:28	24°♓20'56	0°40'02
max. Earth dist.	-1591 Mar 29 j 15:25	24°♓21'47	20.73083 AU
morning rise	-1591 Apr 15 j 00:11	25°♓17'48	
retrograde	-1591 Jul 18 j 16:09	28°♓27'55	
opposition	-1591 Oct 03 j 04:21	26°♓27'14	-0°43'23
min. Earth dist.	-1591 Oct 02 j 23:46	26°♓27'43	18.70010 AU
direct	-1591 Dec 16 j 18:53	24°♓28'41	
evening set	-1590 Mar 17 j 09:42	27°♓31'51	
conjunction	-1590 Apr 02 j 22:14	28°♓28'33	-0°38'21
minimum elong	-1590 Apr 02 j 22:14	28°♓28'33	0°38'22
max. Earth dist.	-1590 Apr 03 j 01:16	28°♓28'59	20.66882 AU
morning rise	-1590 Apr 19 j 13:51	29°♓25'42	
	-1590 Apr 29 j 22:52	0°♈	
retrograde	-1590 Jul 23 j 02:57	2°♈36'20	
opposition	-1590 Oct 07 j 12:20	0°♈35'27	-0°41'26
min. Earth dist.	-1590 Oct 07 j 10:25	0°♈35'39	18.63692 AU
	-1590 Oct 21 j 20:37	30°℞♓	
direct	-1590 Dec 21 j 01:49	28°♓36'30	
	-1589 Feb 17 j 06:02	0°♈	
evening set	-1589 Mar 21 j 22:15	1°♈40'37	
conjunction	-1589 Apr 07 j 11:54	2°♈37'39	-0°36'29
minimum elong	-1589 Apr 07 j 11:54	2°♈37'39	0°36'28
max. Earth dist.	-1589 Apr 07 j 13:51	2°♈37'55	20.60463 AU
morning rise	-1589 Apr 24 j 04:10	3°♈35'03	
retrograde	-1589 Jul 27 j 16:05	6°♈46'13	
opposition	-1589 Oct 11 j 20:37	4°♈45'09	-0°39'15
min. Earth dist.	-1589 Oct 11 j 19:23	4°♈45'17	18.57171 AU
direct	-1589 Dec 25 j 11:14	2°♈45'49	
evening set	-1588 Mar 25 j 11:57	5°♈50'59	
conjunction	-1588 Apr 11 j 02:21	6°♈48'18	-0°34'24
minimum elong	-1588 Apr 11 j 02:21	6°♈48'18	0°34'24
max. Earth dist.	-1588 Apr 11 j 01:31	6°♈48'11	20.53860 AU
morning rise	-1588 Apr 27 j 19:21	7°♈46'00	
retrograde	-1588 Jul 31 j 04:06	10°♈57'44	
opposition	-1588 Oct 15 j 05:28	8°♈56'30	-0°36'51
min. Earth dist.	-1588 Oct 15 j 06:53	8°♈56'21	18.50504 AU
direct	-1588 Dec 28 j 19:17	6°♈56'47	
evening set	-1587 Mar 30 j 02:20	10°♈03'03	
conjunction	-1587 Apr 15 j 17:44	11°♈00'41	-0°32'08
minimum elong	-1587 Apr 15 j 17:44	11°♈00'41	0°32'07
max. Earth dist.	-1587 Apr 15 j 15:42	11°♈00'24	20.47145 AU
morning rise	-1587 May 02 j 11:15	11°♈58'39	
retrograde	-1587 Aug 04 j 18:55	15°♈10'59	
opposition	-1587 Oct 19 j 14:50	13°♈09'37	-0°34'15
min. Earth dist.	-1587 Oct 19 j 16:49	13°♈09'25	18.43738 AU
direct	-1586 Jan 02 j 05:56	11°♈09'32	
evening set	-1586 Apr 03 j 17:40	14°♈16'58	

conjunction	-1586 Apr 20 j 09:46	15°♈14'55	-0°29'40
minimum elong	-1586 Apr 20 j 09:46	15°♈14'55	0°29'40
max. Earth dist.	-1586 Apr 20 j 05:13	15°♈14'15	20.40339 AU
morning rise	-1586 May 07 j 03:54	16°♈13'10	
retrograde	-1586 Aug 09 j 08:21	19°♈26'07	
opposition	-1586 Oct 24 j 00:59	17°♈24'39	-0°31'26
min. Earth dist.	-1586 Oct 24 j 05:37	17°♈24'10	18.36900 AU
direct	-1585 Jan 06 j 15:05	15°♈24'12	
evening set	-1585 Apr 08 j 10:06	18°♈32'51	
conjunction	-1585 Apr 25 j 03:04	19°♈31'07	-0°27'02
minimum elong	-1585 Apr 25 j 03:04	19°♈31'07	0°27'02
max. Earth dist.	-1585 Apr 24 j 21:01	19°♈30'15	20.33477 AU
morning rise	-1585 May 11 j 21:38	20°♈29'40	
retrograde	-1585 Aug 14 j 01:09	23°♈43'15	
opposition	-1585 Oct 28 j 11:30	21°♈41'42	-0°28'25
min. Earth dist.	-1585 Oct 28 j 16:58	21°♈41'07	18.29996 AU
direct	-1584 Jan 11 j 03:08	19°♈40'53	
evening set	-1584 Apr 12 j 03:45	22°♈50'49	
conjunction	-1584 Apr 28 j 21:19	23°♈49'25	-0°24'13
minimum elong	-1584 Apr 28 j 21:19	23°♈49'25	0°24'12
max. Earth dist.	-1584 Apr 28 j 12:42	23°♈48'10	20.26533 AU
morning rise	-1584 May 15 j 16:16	24°♈48'16	
retrograde	-1584 Aug 17 j 16:22	28°♈02'30	
opposition	-1584 Oct 31 j 23:02	26°♈00'52	-0°25'13
min. Earth dist.	-1584 Nov 01 j 07:20	25°♈59'59	18.23017 AU
direct	-1583 Jan 14 j 14:02	23°♈59'42	
evening set	-1583 Apr 16 j 22:13	27°♈10'56	
conjunction	-1583 May 03 j 16:25	28°♈09'51	-0°21'15
minimum elong	-1583 May 03 j 16:25	28°♈09'51	0°21'15
max. Earth dist.	-1583 May 03 j 05:53	28°♈08'18	20.19514 AU
morning rise	-1583 May 20 j 11:40	29°♈08'58	
	-1583 Jun 04 j 17:15	0°♉	
retrograde	-1583 Aug 22 j 10:25	2°♉23'52	
opposition	-1583 Nov 05 j 11:08	0°♉22'08	-0°21'51
min. Earth dist.	-1583 Nov 05 j 20:23	0°♉21'09	18.15950 AU
	-1583 Nov 14 j 03:20	30°℞♈	
direct	-1582 Jan 19 j 03:39	28°♈20'36	
	-1582 Mar 23 j 17:36	0°♉	
evening set	-1582 Apr 21 j 17:55	1°♉33'10	
conjunction	-1582 May 08 j 12:36	2°♉32'24	-0°18'08
minimum elong	-1582 May 08 j 12:36	2°♉32'24	0°18'06
max. Earth dist.	-1582 May 07 j 23:38	2°♉30'30	20.12391 AU
morning rise	-1582 May 25 j 08:02	3°♉31'48	
retrograde	-1582 Aug 27 j 03:17	6°♉47'21	
opposition	-1582 Nov 10 j 00:08	4°♉45'31	-0°18'19
min. Earth dist.	-1582 Nov 10 j 12:15	4°♉44'13	18.08789 AU
direct	-1581 Jan 23 j 16:42	2°♉43'33	
evening set	-1581 Apr 26 j 14:34	5°♉57'28	
conjunction	-1581 May 13 j 09:45	6°♉57'01	-0°14'53
minimum elong	-1581 May 13 j 09:45	6°♉57'01	0°14'52
behind sun begin	-1581 May 13 j 07:28	6°♉56'41	
behind sun end	-1581 May 13 j 12:02	6°♉57'21	
max. Earth dist.	-1581 May 12 j 18:22	6°♉54'44	20.05195 AU
morning rise	-1581 May 30 j 05:22	7°♉56'41	
retrograde	-1581 Aug 31 j 22:13	11°♉12'51	
opposition	-1581 Nov 14 j 13:47	9°♉10'53	-0°14'38
min. Earth dist.	-1581 Nov 15 j 02:54	9°♉09'28	18.01556 AU
direct	-1580 Jan 28 j 08:24	7°♉08'30	
evening set	-1580 Apr 30 j 12:13	10°♉23'44	
conjunction	-1580 May 17 j 07:46	11°♉23'36	-0°11'31
minimum elong	-1580 May 17 j 07:46	11°♉23'36	0°11'30

Attention, astronomical year style is used: The year -1580 in astronomical counting style is the year 1581 BCE in historical counting style.

behind sun begin	-1580 May 17 j 02:58	11°♉22'54	
behind sun end	-1580 May 17 j 12:33	11°♉24'18	
max. Earth dist.	-1580 May 16 j 14:21	11°♉21'00	19.97930 AU
morning rise	-1580 Jun 03 j 03:17	12°♉23'32	
	-1580 Jul 27 j 07:06	15°♉	
retrograde	-1580 Sep 04 j 16:01	15°♉40'18	
	-1580 Oct 14 j 11:39	15°℞♉	
opposition	-1580 Nov 18 j 04:19	13°♉38'11	-0°10'51
min. Earth dist.	-1580 Nov 18 j 20:01	13°♉36'30	17.94293 AU
direct	-1579 Jan 31 j 23:43	11°♉35'22	
evening set	-1579 May 05 j 10:43	14°♉51'56	
	-1579 May 07 j 17:40	15°♉	
max. Earth dist.	-1579 May 21 j 10:39	15°♉49'07	19.90694 AU
conjunction	-1579 May 22 j 06:29	15°♉52'06	-0°08'04
minimum elong	-1579 May 22 j 06:29	15°♉52'06	0°08'03
behind sun begin	-1579 May 22 j 00:28	15°♉51'13	
behind sun end	-1579 May 22 j 12:30	15°♉52'59	
morning rise	-1579 Jun 08 j 02:03	16°♉52'16	
retrograde	-1579 Sep 09 j 11:32	20°♉09'38	
opposition	-1579 Nov 22 j 19:27	18°♉07'22	-0°06'58
min. Earth dist.	-1579 Nov 23 j 11:59	18°♉05'34	17.87095 AU
direct	-1578 Feb 05 j 17:24	16°♉04'04	
evening set	-1578 May 10 j 09:56	19°♉21'59	
max. Earth dist.	-1578 May 26 j 08:53	20°♉19'15	19.83540 AU
conjunction	-1578 May 27 j 05:59	20°♉22'26	-0°04'33
minimum elong	-1578 May 27 j 05:59	20°♉22'26	0°04'32
behind sun begin	-1578 May 26 j 23:19	20°♉21'27	
behind sun end	-1578 May 27 j 12:38	20°♉23'24	
morning rise	-1578 Jun 13 j 01:17	21°♉22'50	
retrograde	-1578 Sep 14 j 06:32	24°♉40'46	
opposition	-1578 Nov 27 j 11:29	22°♉38'21	-0°03'01
min. Earth dist.	-1578 Nov 28 j 06:10	22°♉36'20	17.80018 AU
direct	-1577 Feb 10 j 10:50	20°♉34'37	
evening set	-1577 May 15 j 10:14	23°♉53'51	
max. Earth dist.	-1577 May 31 j 06:44	24°♉51'00	19.76564 AU
conjunction	-1577 Jun 01 j 06:15	24°♉54'34	-0°00'57
minimum elong	-1577 Jun 01 j 06:14	24°♉54'34	0°00'54
behind sun begin	-1577 May 31 j 23:27	24°♉53'34	
behind sun end	-1577 Jun 01 j 13:01	24°♉55'34	
morning rise	-1577 Jun 18 j 01:25	25°♉55'12	
asc. node	-1577 Sep 02 j 14:07	29°♉06'14	
retrograde	-1577 Sep 19 j 02:41	29°♉13'41	
opposition	-1577 Dec 02 j 04:04	27°♉11'08	0°00'59
min. Earth dist.	-1577 Dec 02 j 23:30	27°♉09'01	17.73162 AU
direct	-1576 Feb 15 j 06:26	25°♉06'56	
evening set	-1576 May 19 j 11:12	28°♉27'30	
max. Earth dist.	-1576 Jun 04 j 07:15	29°♉24'49	19.69829 AU
conjunction	-1576 Jun 05 j 07:17	29°♉28'28	0°02'46
minimum elong	-1576 Jun 05 j 07:17	29°♉28'28	0°02'47
behind sun begin	-1576 Jun 05 j 00:30	29°♉27'28	
behind sun end	-1576 Jun 05 j 14:03	29°♉29'28	
	-1576 Jun 13 j 22:45	0°♊	
morning rise	-1576 Jun 22 j 01:55	0°♊29'18	
retrograde	-1576 Sep 22 j 23:02	3°♊48'19	
opposition	-1576 Dec 05 j 21:41	1°♊45'39	0°05'00
min. Earth dist.	-1576 Dec 06 j 18:39	1°♊43'22	17.66588 AU
	-1575 Jan 23 j 05:22	30°℞♉	
direct	-1575 Feb 19 j 01:39	29°♉41'03	
	-1575 Mar 17 j 19:30	0°♊	
evening set	-1575 May 24 j 12:49	3°♊02'54	
max. Earth dist.	-1575 Jun 09 j 06:27	4°♊00'07	19.63433 AU
conjunction	-1575 Jun 10 j 08:36	4°♊04'06	0°06'22
minimum elong	-1575 Jun 10 j 08:35	4°♊04'06	0°06'23
behind sun begin	-1575 Jun 10 j 02:12	4°♊03'09	
behind sun end	-1575 Jun 10 j 14:58	4°♊05'03	
morning rise	-1575 Jun 27 j 02:55	5°♊05'07	
retrograde	-1575 Sep 27 j 20:09	8°♊24'41	
opposition	-1575 Dec 10 j 15:59	6°♊21'56	0°09'00
min. Earth dist.	-1575 Dec 11 j 13:29	6°♊19'35	17.60395 AU
direct	-1574 Feb 23 j 23:08	4°♊16'56	
evening set	-1574 May 29 j 15:09	7°♊40'04	
max. Earth dist.	-1574 Jun 14 j 08:50	8°♊37'30	19.57434 AU
conjunction	-1574 Jun 15 j 10:50	8°♊41'29	0°09'55
minimum elong	-1574 Jun 15 j 10:50	8°♊41'29	0°09'57
behind sun begin	-1574 Jun 15 j 05:24	8°♊40'41	
behind sun end	-1574 Jun 15 j 16:16	8°♊42'18	
morning rise	-1574 Jul 02 j 04:25	9°♊42'40	
retrograde	-1574 Oct 02 j 17:42	13°♊02'44	
opposition	-1574 Dec 15 j 11:03	10°♊59'57	0°12'58
min. Earth dist.	-1574 Dec 16 j 09:32	10°♊57'29	17.54622 AU
direct	-1573 Feb 28 j 20:13	8°♊54'38	
evening set	-1573 Jun 03 j 18:23	12°♊19'01	
max. Earth dist.	-1573 Jun 19 j 09:33	13°♊16'19	19.51898 AU
conjunction	-1573 Jun 20 j 13:32	13°♊20'37	0°13'27
minimum elong	-1573 Jun 20 j 13:32	13°♊20'37	0°13'28
behind sun begin	-1573 Jun 20 j 09:53	13°♊20'04	
behind sun end	-1573 Jun 20 j 17:11	13°♊21'10	
morning rise	-1573 Jul 07 j 06:37	14°♊21'57	
retrograde	-1573 Oct 07 j 16:02	17°♊42'31	
opposition	-1573 Dec 20 j 07:01	15°♊39'43	0°16'53
min. Earth dist.	-1573 Dec 21 j 06:04	15°♊37'12	17.49336 AU
direct	-1572 Mar 04 j 19:15	13°♊34'08	
evening set	-1572 Jun 07 j 21:59	16°♊59'43	
conjunction	-1572 Jun 24 j 16:49	18°♊01'30	0°16'55
minimum elong	-1572 Jun 24 j 16:49	18°♊01'30	0°16'57
max. Earth dist.	-1572 Jun 23 j 13:25	17°♊57'16	19.46849 AU
morning rise	-1572 Jul 11 j 08:58	19°♊02'57	
retrograde	-1572 Oct 11 j 15:23	22°♊24'00	
opposition	-1572 Dec 24 j 03:49	20°♊21'15	0°20'42
min. Earth dist.	-1572 Dec 25 j 03:18	20°♊18'40	17.44534 AU
direct	-1571 Mar 09 j 18:28	18°♊15'26	
evening set	-1571 Jun 13 j 02:23	21°♊42'10	
conjunction	-1571 Jun 29 j 20:28	22°♊44'05	0°20'18
minimum elong	-1571 Jun 29 j 20:28	22°♊44'05	0°20'19
max. Earth dist.	-1571 Jun 28 j 15:25	22°♊39'35	19.42297 AU
morning rise	-1571 Jul 16 j 11:54	23°♊45'39	
retrograde	-1571 Oct 16 j 14:53	27°♊07'09	
opposition	-1571 Dec 29 j 01:21	25°♊04'27	0°24'25
min. Earth dist.	-1571 Dec 30 j 01:39	25°♊01'47	17.40240 AU
direct	-1570 Mar 14 j 18:09	22°♊58'27	
evening set	-1570 Jun 18 j 07:07	26°♊26'15	
max. Earth dist.	-1570 Jul 03 j 20:15	27°♊23'52	19.38233 AU
conjunction	-1570 Jul 05 j 00:43	27°♊28'18	0°23'33
minimum elong	-1570 Jul 05 j 00:43	27°♊28'18	0°23'35
morning rise	-1570 Jul 21 j 15:08	28°♊29'57	
	-1570 Aug 16 j 23:54	0°♋	
retrograde	-1570 Oct 21 j 16:18	1°♋51'49	
	-1570 Dec 29 j 21:15	30°℞♊	
opposition	-1569 Jan 02 j 23:47	29°♊49'13	0°27'59
min. Earth dist.	-1569 Jan 04 j 00:08	29°♊46'33	17.36401 AU
direct	-1569 Mar 19 j 19:21	27°♊43'03	
	-1569 Jun 02 j 22:01	0°♋	
evening set	-1569 Jun 23 j 12:35	1°♋11'50	
max. Earth dist.	-1569 Jul 08 j 23:28	2°♋09'19	19.34615 AU

Attention, astronomical year style is used: The year -1569 in astronomical counting style is the year 1570 BCE in historical counting style.

conjunction	-1569 Jul	10 j 05:15	2°♋13'58	0°26'41
minimum elong	-1569 Jul	10 j 05:14	2°♋13'58	0°26'43
morning rise	-1569 Jul	26 j 18:42	3°♋15'40	
retrograde	-1569 Oct	26 j 16:20	6°♋37'53	
opposition	-1568 Jan	07 j 23:00	4°♋35'20	0°31'23
min. Earth dist.	-1568 Jan	09 j 00:21	4°♋32'34	17.33023 AU
direct	-1568 Mar	23 j 19:37	2°♋29'00	
evening set	-1568 Jun	27 j 18:11	5°♋58'40	
max. Earth dist.	-1568 Jul	13 j 04:47	6°♋56'16	19.31459 AU
conjunction	-1568 Jul	14 j 10:04	7°♋00'51	0°29'38
minimum elong	-1568 Jul	14 j 10:04	7°♋00'51	0°29'39
morning rise	-1568 Jul	30 j 22:24	8°♋02'34	
retrograde	-1568 Oct	30 j 18:58	11°♋25'04	
opposition	-1567 Jan	11 j 22:57	9°♋22'34	0°34'35
min. Earth dist.	-1567 Jan	12 j 23:46	9°♋19'51	17.30092 AU
direct	-1567 Mar	28 j 22:59	7°♋16'06	
evening set	-1567 Jul	02 j 23:55	10°♋46'30	
max. Earth dist.	-1567 Jul	18 j 09:02	11°♋44'02	19.28753 AU
conjunction	-1567 Jul	19 j 14:49	11°♋48'43	0°32'23
minimum elong	-1567 Jul	19 j 14:48	11°♋48'43	0°32'25
morning rise	-1567 Aug	05 j 02:02	12°♋50'25	
retrograde	-1567 Nov	04 j 18:33	16°♋13'08	
opposition	-1566 Jan	16 j 23:34	14°♋10'41	0°37'32
min. Earth dist.	-1566 Jan	18 j 01:17	14°♋07'52	17.27631 AU
direct	-1566 Apr	03 j 00:21	12°♋04'04	
evening set	-1566 Jul	08 j 05:48	15°♋35'05	
conjunction	-1566 Jul	24 j 19:42	16°♋37'18	0°34'55
minimum elong	-1566 Jul	24 j 19:42	16°♋37'18	0°34'56
max. Earth dist.	-1566 Jul	23 j 14:17	16°♋32'40	19.26534 AU
morning rise	-1566 Aug	10 j 05:48	17°♋38'58	
retrograde	-1566 Nov	09 j 20:50	21°♋01'49	
opposition	-1565 Jan	22 j 00:28	18°♋59'23	0°40'15
min. Earth dist.	-1565 Jan	23 j 01:11	18°♋56'41	17.25653 AU
direct	-1565 Apr	08 j 05:42	16°♋52'40	
evening set	-1565 Jul	13 j 11:42	20°♋24'10	
max. Earth dist.	-1565 Jul	28 j 19:35	21°♋21'46	19.24811 AU
conjunction	-1565 Jul	30 j 00:32	21°♋26'21	0°37'13
minimum elong	-1565 Jul	30 j 00:32	21°♋26'21	0°37'14
morning rise	-1565 Aug	15 j 09:20	22°♋27'57	
retrograde	-1565 Nov	14 j 20:03	25°♋50'52	
opposition	-1564 Jan	27 j 02:09	23°♋48'28	0°42'40
min. Earth dist.	-1564 Jan	28 j 03:30	23°♋45'42	17.24207 AU
direct	-1564 Apr	12 j 08:40	21°♋41'40	
evening set	-1564 Jul	17 j 17:13	25°♋13'30	
max. Earth dist.	-1564 Aug	02 j 00:22	26°♋11'05	19.23649 AU
conjunction	-1564 Aug	03 j 04:51	26°♋15'36	0°39'15
minimum elong	-1564 Aug	03 j 04:51	26°♋15'35	0°39'17
morning rise	-1564 Aug	19 j 12:32	27°♋17'06	
	-1564 Oct	12 j 00:50	0°♌	
retrograde	-1564 Nov	18 j 21:57	0°♌40'03	
	-1564 Dec	27 j 16:35	30°℞♋	
opposition	-1563 Jan	31 j 04:02	28°♋37'39	0°44'47
min. Earth dist.	-1563 Feb	01 j 03:43	28°♋35'04	17.23331 AU
direct	-1563 Apr	17 j 15:35	26°♋30'47	
evening set	-1563 Jul	22 j 22:28	0°♌02'49	
	-1563 Jul	22 j 04:09	0°♌	
max. Earth dist.	-1563 Aug	07 j 06:10	1°♌00'34	19.23070 AU
conjunction	-1563 Aug	08 j 09:01	1°♌04'49	0°41'00
minimum elong	-1563 Aug	08 j 09:01	1°♌04'49	0°41'01
morning rise	-1563 Aug	24 j 15:20	2°♌06'13	
retrograde	-1563 Nov	23 j 20:57	5°♌29'06	
opposition	-1562 Feb	05 j 06:16	3°♌26'44	0°46'35
min. Earth dist.	-1562 Feb	06 j 06:08	3°♌24'08	17.23069 AU
direct	-1562 Apr	22 j 19:18	1°♌19'50	
evening set	-1562 Jul	28 j 03:27	4°♌51'57	
max. Earth dist.	-1562 Aug	12 j 10:20	5°♌49'38	19.23138 AU
conjunction	-1562 Aug	13 j 12:40	5°♌53'49	0°42'28
minimum elong	-1562 Aug	13 j 12:40	5°♌53'49	0°42'30
morning rise	-1562 Aug	29 j 17:54	6°♌55'05	
retrograde	-1562 Nov	28 j 22:40	10°♌17'51	
opposition	-1561 Feb	10 j 08:45	8°♌15'32	0°48'03
min. Earth dist.	-1561 Feb	11 j 06:32	8°♌13'09	17.23464 AU
direct	-1561 Apr	28 j 01:59	6°♌08'38	
evening set	-1561 Aug	02 j 07:49	9°♌40'42	
conjunction	-1561 Aug	18 j 15:55	10°♌42'24	0°43'38
minimum elong	-1561 Aug	18 j 15:55	10°♌42'24	0°43'39
max. Earth dist.	-1561 Aug	17 j 16:07	10°♌38'38	19.23868 AU
morning rise	-1561 Sep	03 j 19:42	11°♌43'30	
	-1561 Nov	19 j 06:51	15°♌	
retrograde	-1561 Dec	03 j 22:15	15°♌06'08	
	-1561 Dec	18 j 18:53	15°℞♌	
opposition	-1560 Feb	15 j 11:38	13°♌03'53	0°49'11
min. Earth dist.	-1560 Feb	16 j 08:52	13°♌01'35	17.24542 AU
direct	-1560 May	02 j 06:07	10°♌57'05	
evening set	-1560 Aug	06 j 11:50	14°♌28'58	
	-1560 Aug	14 j 18:09	15°♌	
conjunction	-1560 Aug	22 j 18:30	15°♌30'29	0°44'29
minimum elong	-1560 Aug	22 j 18:30	15°♌30'29	0°44'30
max. Earth dist.	-1560 Aug	21 j 19:26	15°♌26'50	19.25309 AU
morning rise	-1560 Sep	07 j 21:13	16°♌31'25	
retrograde	-1560 Dec	07 j 23:33	19°♌53'52	
opposition	-1559 Feb	19 j 14:28	17°♌51'42	0°49'59
min. Earth dist.	-1559 Feb	20 j 09:21	17°♌49'40	17.26336 AU
direct	-1559 May	07 j 11:22	15°♌45'03	
evening set	-1559 Aug	11 j 15:00	19°♌16'40	
conjunction	-1559 Aug	27 j 20:37	20°♌17'59	0°45'02
minimum elong	-1559 Aug	27 j 20:37	20°♌17'59	0°45'04
max. Earth dist.	-1559 Aug	27 j 00:33	20°♌14'48	19.27448 AU
morning rise	-1559 Sep	12 j 21:59	21°♌18'43	
retrograde	-1559 Dec	12 j 23:37	24°♌40'55	
opposition	-1558 Feb	24 j 17:30	22°♌38'56	0°50'25
min. Earth dist.	-1558 Feb	25 j 11:20	22°♌37'00	17.28798 AU
direct	-1558 May	12 j 15:26	20°♌32'30	
evening set	-1558 Aug	16 j 17:51	24°♌03'43	
conjunction	-1558 Sep	01 j 22:01	25°♌04'49	0°45'17
minimum elong	-1558 Sep	01 j 22:01	25°♌04'49	0°45'17
max. Earth dist.	-1558 Sep	01 j 02:46	25°♌01'46	19.30243 AU
morning rise	-1558 Sep	17 j 22:22	26°♌05'20	
retrograde	-1558 Dec	18 j 00:15	29°♌27'17	
opposition	-1557 Mar	01 j 20:24	27°♌25'27	0°50'30
min. Earth dist.	-1557 Mar	02 j 12:10	27°♌23'46	17.31899 AU
direct	-1557 May	17 j 19:34	25°♌19'18	
evening set	-1557 Aug	21 j 19:51	28°♌50'01	
conjunction	-1557 Sep	06 j 22:56	29°♌50'53	0°45'13
minimum elong	-1557 Sep	06 j 22:56	29°♌50'53	0°45'14
max. Earth dist.	-1557 Sep	06 j 06:46	29°♌48'19	19.33639 AU
	-1557 Sep	09 j 08:26	0°♍	
morning rise	-1557 Sep	22 j 21:59	0°♍51'10	
retrograde	-1557 Dec	23 j 00:26	4°♍12'47	
opposition	-1556 Mar	05 j 23:30	2°♍11'10	0°50'15
min. Earth dist.	-1556 Mar	06 j 13:47	2°♍09'38	17.35557 AU
direct	-1556 May	21 j 23:49	0°♍05'20	

Attention, astronomical year style is used: The year -1556 in astronomical counting style is the year 1557 BCE in historical counting style.

evening set	-1556 Aug 25 j 21:09	3°♍35'24	
conjunction	-1556 Sep 10 j 22:51	4°♍36'00	0°44'50
minimum elong	-1556 Sep 10 j 22:51	4°♍36'00	0°44'51
max. Earth dist.	-1556 Sep 10 j 07:42	4°♍33'36	19.37560 AU
morning rise	-1556 Sep 26 j 20:57	5°♍36'03	
retrograde	-1556 Dec 27 j 00:02	8°♍57'20	
opposition	-1555 Mar 11 j 02:25	6°♍55'53	0°49'39
min. Earth dist.	-1555 Mar 11 j 14:57	6°♍54'32	17.39722 AU
direct	-1555 May 27 j 03:14	4°♍50'22	
evening set	-1555 Aug 30 j 21:39	8°♍19'43	
conjunction	-1555 Sep 15 j 22:18	9°♍20'02	0°44'09
minimum elong	-1555 Sep 15 j 22:18	9°♍20'02	0°44'09
max. Earth dist.	-1555 Sep 15 j 09:56	9°♍18'05	19.41949 AU
morning rise	-1555 Oct 01 j 19:16	10°♍19'49	
retrograde	-1555 Dec 31 j 23:25	13°♍40'41	
opposition	-1554 Mar 16 j 05:00	11°♍39'25	0°48'42
min. Earth dist.	-1554 Mar 16 j 15:42	11°♍38'16	17.44302 AU
direct	-1554 Jun 01 j 07:40	9°♍34'16	
evening set	-1554 Sep 04 j 21:29	13°♍02'45	
conjunction	-1554 Sep 20 j 20:52	14°♍02'47	0°43'10
minimum elong	-1554 Sep 20 j 20:52	14°♍02'47	0°43'11
max. Earth dist.	-1554 Sep 20 j 09:40	14°♍01'01	19.46723 AU
morning rise	-1554 Oct 06 j 16:55	15°♍02'18	
retrograde	-1553 Jan 05 j 21:31	18°♍22'44	
opposition	-1553 Mar 21 j 07:32	16°♍21'35	0°47'27
min. Earth dist.	-1553 Mar 21 j 16:49	16°♍20'36	17.49258 AU
direct	-1553 Jun 06 j 10:27	14°♍16'47	
evening set	-1553 Sep 09 j 20:10	17°♍44'19	
conjunction	-1553 Sep 25 j 18:31	18°♍44'03	0°41'54
minimum elong	-1553 Sep 25 j 18:31	18°♍44'03	0°41'54
max. Earth dist.	-1553 Sep 25 j 09:49	18°♍42'41	19.51845 AU
morning rise	-1553 Oct 11 j 13:36	19°♍43'17	
retrograde	-1552 Jan 10 j 19:31	23°♍03'13	
opposition	-1552 Mar 25 j 09:39	21°♍02'13	0°45'52
min. Earth dist.	-1552 Mar 25 j 16:32	21°♍01'30	17.54517 AU
direct	-1552 Jun 10 j 15:06	18°♍57'47	
evening set	-1552 Sep 13 j 18:02	22°♍24'15	
conjunction	-1552 Sep 29 j 15:18	23°♍23'39	0°40'22
minimum elong	-1552 Sep 29 j 15:18	23°♍23'39	0°40'23
max. Earth dist.	-1552 Sep 29 j 08:12	23°♍22'33	19.57252 AU
morning rise	-1552 Oct 15 j 09:35	24°♍22'38	
retrograde	-1551 Jan 14 j 15:40	27°♍42'02	
opposition	-1551 Mar 30 j 11:15	25°♍41'07	0°43'59
min. Earth dist.	-1551 Mar 30 j 16:59	25°♍40'31	17.60067 AU
direct	-1551 Jun 15 j 16:33	23°♍37'01	
evening set	-1551 Sep 18 j 14:44	27°♍02'21	
conjunction	-1551 Oct 04 j 11:05	28°♍01'27	0°38'34
minimum elong	-1551 Oct 04 j 11:05	28°♍01'27	0°38'34
max. Earth dist.	-1551 Oct 04 j 06:09	28°♍00'40	19.62937 AU
morning rise	-1551 Oct 20 j 04:39	29°♍00'08	
	-1551 Nov 06 j 03:44	0°♎	
retrograde	-1550 Jan 19 j 12:17	2°♎18'56	
opposition	-1550 Apr 04 j 12:15	0°♎18'08	0°41'51
min. Earth dist.	-1550 Apr 04 j 15:13	0°♎17'50	17.65861 AU
	-1550 Apr 11 j 17:52	30°℞♍	
direct	-1550 Jun 20 j 19:44	28°♍14'21	
	-1550 Aug 25 j 06:18	0°♎	
evening set	-1550 Sep 23 j 10:25	1°♎38'28	
conjunction	-1550 Oct 09 j 05:50	2°♎37'15	0°36'32
minimum elong	-1550 Oct 09 j 05:50	2°♎37'15	0°36'32
max. Earth dist.	-1550 Oct 09 j 03:03	2°♎36'49	19.68858 AU
morning rise	-1550 Oct 24 j 22:41	3°♎35'40	
retrograde	-1549 Jan 24 j 06:40	6°♎53'51	
opposition	-1549 Apr 09 j 12:47	4°♎53'07	0°39'27
min. Earth dist.	-1549 Apr 09 j 14:38	4°♎52'56	17.71914 AU
direct	-1549 Jun 25 j 19:21	2°♎49'40	
evening set	-1549 Sep 28 j 04:59	6°♎12'31	
conjunction	-1549 Oct 13 j 23:31	7°♎10'58	0°34'17
minimum elong	-1549 Oct 13 j 23:31	7°♎10'58	0°34'17
max. Earth dist.	-1549 Oct 13 j 22:51	7°♎10'52	19.75050 AU
morning rise	-1549 Oct 29 j 15:50	8°♎09'06	
retrograde	-1548 Jan 29 j 02:15	11°♎26'39	
opposition	-1548 Apr 13 j 12:33	9°♎25'59	0°36'49
min. Earth dist.	-1548 Apr 13 j 11:09	9°♎26'08	17.78231 AU
direct	-1548 Jun 29 j 20:22	7°♎22'53	
evening set	-1548 Oct 01 j 22:21	10°♎44'24	
conjunction	-1548 Oct 17 j 16:09	11°♎42'33	0°31'51
minimum elong	-1548 Oct 17 j 16:10	11°♎42'33	0°31'50
max. Earth dist.	-1548 Oct 17 j 18:13	11°♎42'52	19.81502 AU
morning rise	-1548 Nov 02 j 07:54	12°♎40'24	
retrograde	-1547 Feb 01 j 19:16	15°♎57'19	
opposition	-1547 Apr 18 j 11:45	13°♎56'44	0°33'59
min. Earth dist.	-1547 Apr 18 j 09:07	13°♎57'00	17.84825 AU
direct	-1547 Jul 04 j 17:28	11°♎54'00	
evening set	-1547 Oct 06 j 14:51	15°♎14'11	
conjunction	-1547 Oct 22 j 07:52	16°♎12'00	0°29'14
minimum elong	-1547 Oct 22 j 07:52	16°♎12'00	0°29'13
max. Earth dist.	-1547 Oct 22 j 11:46	16°♎12'36	19.88235 AU
morning rise	-1547 Nov 06 j 23:14	17°♎09'34	
retrograde	-1546 Feb 06 j 14:12	20°♎25'50	
opposition	-1546 Apr 23 j 09:56	18°♎25'22	0°30'58
min. Earth dist.	-1546 Apr 23 j 03:58	18°♎25'59	17.91679 AU
direct	-1546 Jul 09 j 16:18	16°♎23'01	
evening set	-1546 Oct 11 j 06:18	19°♎41'53	
conjunction	-1546 Oct 26 j 22:45	20°♎39'23	0°26'28
minimum elong	-1546 Oct 26 j 22:45	20°♎39'23	0°26'26
max. Earth dist.	-1546 Oct 27 j 05:34	20°♎40'26	19.95210 AU
morning rise	-1546 Nov 11 j 13:39	21°♎36'42	
retrograde	-1545 Feb 11 j 06:01	24°♎52'19	
opposition	-1545 Apr 28 j 07:47	22°♎51'59	0°27'48
min. Earth dist.	-1545 Apr 28 j 00:34	22°♎52'44	17.98767 AU
direct	-1545 Jul 14 j 11:32	20°♎50'06	
evening set	-1545 Oct 15 j 20:44	24°♎07'35	
conjunction	-1545 Oct 31 j 12:33	25°♎04'47	0°23'33
minimum elong	-1545 Oct 31 j 12:33	25°♎04'47	0°23'32
max. Earth dist.	-1545 Oct 31 j 20:58	25°♎06'04	20.02403 AU
morning rise	-1545 Nov 16 j 03:17	26°♎01'50	
retrograde	-1544 Feb 16 j 00:07	29°♎16'50	
opposition	-1544 May 02 j 04:44	27°♎16'39	0°24'29
min. Earth dist.	-1544 May 01 j 18:20	27°♎17'43	18.06033 AU
direct	-1544 Jul 18 j 08:44	25°♎15'12	
evening set	-1544 Oct 19 j 10:17	28°♎31'22	
conjunction	-1544 Nov 04 j 01:43	29°♎28'17	0°20'31
minimum elong	-1544 Nov 04 j 01:43	29°♎28'17	0°20'31
max. Earth dist.	-1544 Nov 04 j 13:05	29°♎30'00	20.09723 AU
	-1544 Nov 12 j 17:43	0°♏	
morning rise	-1544 Nov 19 j 16:09	0°♏25'04	
retrograde	-1543 Feb 19 j 15:00	3°♏39'26	
opposition	-1543 May 07 j 00:56	1°♏39'25	0°21'03
min. Earth dist.	-1543 May 06 j 13:35	1°♏40'34	18.13394 AU
	-1543 Jun 23 j 12:13	30°℞♎	

Attention, astronomical year style is used: The year -1543 in astronomical counting style is the year 1544 BCE in historical counting style.

direct	-1543 Jul 23 j 02:30	29°♎38'27	
	-1543 Aug 21 j 03:10	0°♏	
evening set	-1543 Oct 23 j 23:05	2°♏53'16	
conjunction	-1543 Nov 08 j 13:59	3°♏49'53	0°17'24
minimum elong	-1543 Nov 08 j 13:59	3°♏49'53	0°17'23
max. Earth dist.	-1543 Nov 09 j 02:25	3°♏51'46	20.17109 AU
morning rise	-1543 Nov 24 j 04:26	4°♏46'26	
retrograde	-1542 Feb 24 j 07:28	8°♏00'11	
opposition	-1542 May 11 j 20:24	6°♏00'19	0°17'31
min. Earth dist.	-1542 May 11 j 06:20	6°♏01'45	18.20779 AU
direct	-1542 Jul 27 j 21:59	3°♏59'49	
evening set	-1542 Oct 28 j 10:51	7°♏13'19	
conjunction	-1542 Nov 13 j 01:31	8°♏09'39	0°14'12
minimum elong	-1542 Nov 13 j 01:31	8°♏09'39	0°14'11
behind sun begin	-1542 Nov 12 j 22:11	8°♏09'10	
behind sun end	-1542 Nov 13 j 04:51	8°♏10'09	
max. Earth dist.	-1542 Nov 13 j 16:44	8°♏11'57	20.24464 AU
morning rise	-1542 Nov 28 j 15:45	9°♏05'57	
retrograde	-1541 Feb 28 j 21:21	12°♏19'07	
opposition	-1541 May 16 j 15:20	10°♏19'24	0°13'54
min. Earth dist.	-1541 May 16 j 00:26	10°♏20'55	18.28098 AU
direct	-1541 Aug 01 j 14:52	8°♏19'21	
evening set	-1541 Nov 01 j 22:03	11°♏31'33	
conjunction	-1541 Nov 17 j 12:18	12°♏27'36	0°10'56
minimum elong	-1541 Nov 17 j 12:18	12°♏27'36	0°10'54
behind sun begin	-1541 Nov 17 j 07:17	12°♏26'52	
behind sun end	-1541 Nov 17 j 17:19	12°♏28'20	
max. Earth dist.	-1541 Nov 18 j 04:12	12°♏29'59	20.31730 AU
morning rise	-1541 Dec 03 j 02:42	13°♏23'41	
	-1540 Jan 01 j 17:43	15°♏	
retrograde	-1540 Mar 04 j 12:17	16°♏36'15	
	-1540 May 10 j 17:39	15°℞♏	
opposition	-1540 May 20 j 09:19	14°♏36'40	0°10'14
min. Earth dist.	-1540 May 19 j 16:11	14°♏38'24	18.35295 AU
direct	-1540 Aug 05 j 08:02	12°♏37'01	
	-1540 Oct 22 j 06:53	15°♏	
evening set	-1540 Nov 05 j 08:18	15°♏47'56	
conjunction	-1540 Nov 20 j 22:31	16°♏43'45	0°07'38
minimum elong	-1540 Nov 20 j 22:31	16°♏43'45	0°07'37
behind sun begin	-1540 Nov 20 j 16:34	16°♏42'52	
behind sun end	-1540 Nov 21 j 04:28	16°♏44'37	
max. Earth dist.	-1540 Nov 21 j 16:50	16°♏46'29	20.38820 AU
morning rise	-1540 Dec 06 j 12:52	17°♏39'36	
retrograde	-1539 Mar 09 j 01:04	20°♏51'35	
min. Earth dist.	-1539 May 24 j 08:50	18°♏53'55	18.42275 AU
opposition	-1539 May 25 j 02:38	18°♏52'06	0°06'33
direct	-1539 Aug 09 j 23:48	16°♏52'51	
evening set	-1539 Nov 09 j 17:59	20°♏02'31	
conjunction	-1539 Nov 25 j 07:55	20°♏58'04	0°04'19
minimum elong	-1539 Nov 25 j 07:55	20°♏58'04	0°04'17
behind sun begin	-1539 Nov 25 j 01:29	20°♏57'08	
behind sun end	-1539 Nov 25 j 14:20	20°♏59'00	
max. Earth dist.	-1539 Nov 26 j 02:26	21°♏00'50	20.45676 AU
morning rise	-1539 Dec 10 j 22:34	21°♏53'43	
retrograde	-1538 Mar 13 j 14:14	25°♏05'08	
opposition	-1538 May 29 j 19:03	23°♏05'44	0°02'50
min. Earth dist.	-1538 May 28 j 23:28	23°♏07'42	18.49001 AU
direct	-1538 Aug 14 j 14:51	21°♏06'49	
evening set	-1538 Nov 14 j 02:47	24°♏15'15	
conjunction	-1538 Nov 29 j 16:49	25°♏10'35	0°00'56
minimum elong	-1538 Nov 29 j 16:49	25°♏10'35	0°00'55
behind sun begin	-1538 Nov 29 j 10:18	25°♏09'38	
behind sun end	-1538 Nov 29 j 23:21	25°♏11'31	
max. Earth dist.	-1538 Nov 30 j 13:35	25°♏13'40	20.52254 AU
morning rise	-1538 Dec 15 j 07:33	26°♏06'02	
desc. node	-1537 Mar 10 j 07:19	29°♏15'21	
retrograde	-1537 Mar 18 j 01:51	29°♏16'52	
opposition	-1537 Jun 03 j 10:48	27°♏17'32	-0°00'51
min. Earth dist.	-1537 Jun 02 j 14:30	27°♏19'34	18.55436 AU
direct	-1537 Aug 19 j 05:24	25°♏18'56	
evening set	-1537 Nov 18 j 10:50	28°♏26'08	
conjunction	-1537 Dec 04 j 00:48	29°♏21'15	-0°02'28
minimum elong	-1537 Dec 04 j 00:47	29°♏21'15	0°02'30
behind sun begin	-1537 Dec 03 j 18:16	29°♏20'19	
behind sun end	-1537 Dec 04 j 07:18	29°♏22'12	
max. Earth dist.	-1537 Dec 04 j 21:41	29°♏24'21	20.58549 AU
	-1537 Dec 14 j 22:39	0°♐	
morning rise	-1537 Dec 19 j 16:00	0°♐16'32	
retrograde	-1536 Mar 21 j 13:32	3°♐26'49	
min. Earth dist.	-1536 Jun 06 j 03:53	1°♐29'40	18.61596 AU
opposition	-1536 Jun 07 j 01:38	1°♐27'29	-0°04'30
	-1536 Jul 17 j 20:19	30°℞♏	
direct	-1536 Aug 22 j 18:24	29°♏29'10	
	-1536 Sep 26 j 14:01	0°♐	
evening set	-1536 Nov 21 j 18:09	2°♐35'13	
conjunction	-1536 Dec 07 j 08:22	3°♐30'08	-0°05'45
minimum elong	-1536 Dec 07 j 08:21	3°♐30'08	0°05'47
behind sun begin	-1536 Dec 07 j 02:05	3°♐29'14	
behind sun end	-1536 Dec 07 j 14:37	3°♐31'02	
max. Earth dist.	-1536 Dec 08 j 07:28	3°♐33'32	20.64563 AU
morning rise	-1536 Dec 22 j 23:46	4°♐25'15	
retrograde	-1535 Mar 25 j 23:31	7°♐34'58	
opposition	-1535 Jun 11 j 15:27	5°♐35'40	-0°08'06
min. Earth dist.	-1535 Jun 10 j 16:56	5°♐37'55	18.67481 AU
direct	-1535 Aug 27 j 07:13	3°♐37'36	
evening set	-1535 Nov 26 j 00:56	6°♐42'33	
conjunction	-1535 Dec 11 j 15:07	7°♐37'16	-0°08'57
minimum elong	-1535 Dec 11 j 15:07	7°♐37'16	0°08'58
behind sun begin	-1535 Dec 11 j 09:30	7°♐36'28	
behind sun end	-1535 Dec 11 j 20:45	7°♐38'05	
max. Earth dist.	-1535 Dec 12 j 14:20	7°♐40'41	20.70328 AU
morning rise	-1535 Dec 27 j 07:07	8°♐32'14	
retrograde	-1534 Mar 30 j 10:14	11°♐41'27	
min. Earth dist.	-1534 Jun 15 j 04:49	9°♐44'33	18.73143 AU
opposition	-1534 Jun 16 j 04:38	9°♐42'10	-0°11'38
direct	-1534 Aug 31 j 18:01	7°♐44'20	
evening set	-1534 Nov 30 j 06:50	10°♐48'16	
conjunction	-1534 Dec 15 j 21:23	11°♐42'48	-0°12'05
minimum elong	-1534 Dec 15 j 21:23	11°♐42'49	0°12'07
behind sun begin	-1534 Dec 15 j 16:53	11°♐42'10	
behind sun end	-1534 Dec 16 j 01:54	11°♐43'27	
max. Earth dist.	-1534 Dec 16 j 22:54	11°♐46'33	20.75865 AU
morning rise	-1534 Dec 31 j 13:40	12°♐37'38	
retrograde	-1533 Apr 03 j 18:52	15°♐46'24	
opposition	-1533 Jun 20 j 17:05	13°♐47'08	-0°15'04
min. Earth dist.	-1533 Jun 19 j 16:17	13°♐49'37	18.78569 AU
direct	-1533 Sep 05 j 04:50	11°♐49'35	
evening set	-1533 Dec 04 j 12:31	14°♐52'32	
conjunction	-1533 Dec 20 j 03:13	15°♐46'55	-0°15'09
minimum elong	-1533 Dec 20 j 03:13	15°♐46'55	0°15'10
behind sun begin	-1533 Dec 20 j 00:47	15°♐46'34	
behind sun end	-1533 Dec 20 j 05:38	15°♐47'16	
max. Earth dist.	-1533 Dec 21 j 04:39	15°♐50'38	20.81180 AU

Attention, astronomical year style is used: The year -1532 in astronomical counting style is the year 1533 BCE in historical counting style.

morning rise	-1532 Jan	04 j 20:12	16°♐41'37	
retrograde	-1532 Apr	07 j 05:04	19°♐49'58	
min. Earth dist.	-1532 Jun	23 j 02:59	17°♐53'19	18.83777 AU
opposition	-1532 Jun	24 j 04:41	17°♐50'45	-0°18'25
direct	-1532 Sep	08 j 13:33	15°♐53'27	
evening set	-1532 Dec	07 j 17:32	18°♐55'31	
conjunction	-1532 Dec	23 j 08:46	19°♐49'47	-0°18'07
minimum elong	-1532 Dec	23 j 08:46	19°♐49'47	0°18'09
max. Earth dist.	-1532 Dec	24 j 12:12	19°♐53'46	20.86249 AU
morning rise	-1531 Jan	08 j 02:11	20°♐44'22	
retrograde	-1531 Apr	11 j 12:58	23°♐52'20	
opposition	-1531 Jun	28 j 15:40	21°♐53'12	-0°21'38
min. Earth dist.	-1531 Jun	27 j 13:10	21°♐55'50	18.88706 AU
direct	-1531 Sep	12 j 22:40	19°♐56'09	
evening set	-1531 Dec	11 j 22:19	22°♐57'24	
conjunction	-1531 Dec	27 j 13:46	23°♐51'32	-0°21'00
minimum elong	-1531 Dec	27 j 13:46	23°♐51'32	0°21'01
max. Earth dist.	-1531 Dec	28 j 16:54	23°♐55'29	20.91033 AU
morning rise	-1530 Jan	12 j 07:58	24°♐46'03	
retrograde	-1530 Apr	15 j 22:21	27°♐53'41	
min. Earth dist.	-1530 Jul	01 j 23:11	25°♐57'18	18.93341 AU
opposition	-1530 Jul	03 j 02:09	25°♐54'37	-0°24'45
direct	-1530 Sep	17 j 05:33	23°♐57'50	
evening set	-1530 Dec	16 j 02:43	26°♐58'19	
conjunction	-1530 Dec	31 j 18:48	27°♐52'22	-0°23'45
minimum elong	-1530 Dec	31 j 18:48	27°♐52'22	0°23'47
max. Earth dist.	-1529 Jan	01 j 23:38	27°♐56'33	20.95492 AU
morning rise	-1529 Jan	16 j 13:30	28°♐46'48	
	-1529 Feb	08 j 10:35	0°♑	
retrograde	-1529 Apr	20 j 06:24	1°♑54'09	
	-1529 Jul	05 j 11:26	30°℞♐	
min. Earth dist.	-1529 Jul	06 j 08:33	29°♐57'54	18.97616 AU
opposition	-1529 Jul	07 j 12:02	29°♐55'10	-0°27'44
direct	-1529 Sep	21 j 13:50	27°♐58'37	
	-1529 Dec	02 j 05:41	0°♑	
evening set	-1529 Dec	20 j 07:02	0°♑58'26	
conjunction	-1528 Jan	04 j 23:30	1°♑52'24	-0°26'23
minimum elong	-1528 Jan	04 j 23:30	1°♑52'24	0°26'26
max. Earth dist.	-1528 Jan	06 j 03:36	1°♑56'27	20.99571 AU
morning rise	-1528 Jan	20 j 19:06	2°♑46'47	
retrograde	-1528 Apr	23 j 15:18	5°♑53'53	
opposition	-1528 Jul	10 j 21:28	3°♑54'57	-0°30'35
min. Earth dist.	-1528 Jul	09 j 18:09	3°♑57'40	19.01490 AU
direct	-1528 Sep	24 j 19:14	1°♑58'37	
evening set	-1528 Dec	23 j 11:10	4°♑57'49	
conjunction	-1527 Jan	08 j 04:21	5°♑51'44	-0°28'54
minimum elong	-1527 Jan	08 j 04:21	5°♑51'44	0°28'55
max. Earth dist.	-1527 Jan	09 j 09:39	5°♑55'57	21.03206 AU
morning rise	-1527 Jan	24 j 00:31	6°♑46'04	
retrograde	-1527 Apr	27 j 23:14	9°♑52'56	
min. Earth dist.	-1527 Jul	14 j 02:48	7°♑56'48	19.04879 AU
opposition	-1527 Jul	15 j 06:13	7°♑54'04	-0°33'16
direct	-1527 Sep	29 j 02:49	5°♑57'55	
evening set	-1527 Dec	27 j 15:21	8°♑56'35	
conjunction	-1526 Jan	12 j 08:59	9°♑50'27	-0°31'16
minimum elong	-1526 Jan	12 j 08:59	9°♑50'27	0°31'18
max. Earth dist.	-1526 Jan	13 j 13:01	9°♑54'28	21.06341 AU
morning rise	-1526 Jan	28 j 06:06	10°♑44'46	
retrograde	-1526 May	02 j 07:50	13°♑51'27	
opposition	-1526 Jul	19 j 14:47	11°♑52'36	-0°35'47
min. Earth dist.	-1526 Jul	18 j 12:01	11°♑55'16	19.07755 AU
direct	-1526 Oct	03 j 07:50	9°♑56'35	
evening set	-1526 Dec	31 j 19:13	12°♑54'46	
conjunction	-1525 Jan	16 j 13:42	13°♑48'36	-0°33'28
minimum elong	-1525 Jan	16 j 13:42	13°♑48'36	0°33'29
max. Earth dist.	-1525 Jan	17 j 18:31	13°♑52'44	21.08927 AU
morning rise	-1525 Feb	01 j 11:29	14°♑42'55	
retrograde	-1525 May	06 j 15:37	17°♑49'26	
opposition	-1525 Jul	23 j 22:51	15°♑50'34	-0°38'08
min. Earth dist.	-1525 Jul	22 j 20:10	15°♑53'14	19.10048 AU
direct	-1525 Oct	07 j 14:29	13°♑54'39	
evening set	-1524 Jan	04 j 23:20	16°♑52'24	
conjunction	-1524 Jan	20 j 18:24	17°♑46'13	-0°35'31
minimum elong	-1524 Jan	20 j 18:23	17°♑46'13	0°35'32
max. Earth dist.	-1524 Jan	21 j 21:33	17°♑50'06	21.10931 AU
morning rise	-1524 Feb	05 j 17:13	18°♑40'33	
retrograde	-1524 May	09 j 23:45	21°♑46'55	
min. Earth dist.	-1524 Jul	26 j 04:48	19°♑50'33	19.11766 AU
opposition	-1524 Jul	27 j 06:26	19°♑48'00	-0°40'17
direct	-1524 Oct	10 j 19:26	17°♑52'05	
evening set	-1523 Jan	08 j 03:11	20°♑49'29	
conjunction	-1523 Jan	23 j 23:12	21°♑43'19	-0°37'23
minimum elong	-1523 Jan	23 j 23:12	21°♑43'19	0°37'23
max. Earth dist.	-1523 Jan	25 j 02:53	21°♑47'16	21.12359 AU
morning rise	-1523 Feb	08 j 22:46	22°♑37'40	
retrograde	-1523 May	14 j 07:06	25°♑43'54	
opposition	-1523 Jul	31 j 13:35	23°♑44'55	-0°42'15
min. Earth dist.	-1523 Jul	30 j 12:06	23°♑47'28	19.12910 AU
direct	-1523 Oct	15 j 01:05	21°♑49'00	
evening set	-1522 Jan	12 j 07:03	24°♑46'06	
conjunction	-1522 Jan	28 j 03:42	25°♑39'57	-0°39'04
minimum elong	-1522 Jan	28 j 03:42	25°♑39'57	0°39'05
max. Earth dist.	-1522 Jan	29 j 05:47	25°♑43'40	21.13244 AU
morning rise	-1522 Feb	13 j 04:20	26°♑34'20	
retrograde	-1522 May	18 j 14:34	29°♑40'31	
opposition	-1522 Aug	04 j 20:31	27°♑41'24	-0°44'00
min. Earth dist.	-1522 Aug	03 j 20:07	27°♑43'50	19.13549 AU
direct	-1522 Oct	19 j 05:36	25°♑45'27	
evening set	-1521 Jan	16 j 10:55	28°♑42'19	
conjunction	-1521 Feb	01 j 08:35	29°♑36'13	-0°40'33
minimum elong	-1521 Feb	01 j 08:35	29°♑36'13	0°40'35
max. Earth dist.	-1521 Feb	02 j 11:18	29°♑40'01	21.13642 AU
	-1521 Feb	08 j 07:41	0°♒	
morning rise	-1521 Feb	17 j 10:00	0°♒30'40	
retrograde	-1521 May	22 j 22:02	3°♒36'48	
min. Earth dist.	-1521 Aug	08 j 02:35	1°♒40'01	19.13718 AU
opposition	-1521 Aug	09 j 02:54	1°♒37'35	-0°45'33
	-1521 Sep	26 j 04:32	30°℞♑	
direct	-1521 Oct	23 j 10:41	29°♑41'35	
	-1521 Nov	19 j 06:08	0°♒	
evening set	-1520 Jan	20 j 15:04	2°♒38'19	
conjunction	-1520 Feb	05 j 13:28	3°♒32'17	-0°41'51
minimum elong	-1520 Feb	05 j 13:28	3°♒32'17	0°41'52
max. Earth dist.	-1520 Feb	06 j 14:29	3°♒35'50	21.13597 AU
morning rise	-1520 Feb	21 j 16:01	4°♒26'49	
retrograde	-1520 May	26 j 05:13	7°♒32'57	
min. Earth dist.	-1520 Aug	11 j 10:07	5°♒35'57	19.13467 AU
opposition	-1520 Aug	12 j 09:10	5°♒33'38	-0°46'52
direct	-1520 Oct	26 j 14:11	3°♒37'34	
evening set	-1519 Jan	23 j 19:15	6°♒34'16	
conjunction	-1519 Feb	08 j 18:42	7°♒28'19	-0°42'58

Attention, astronomical year style is used: The year -1519 in astronomical counting style is the year 1520 BCE in historical counting style.

minimum elong	-1519 Feb 08 j 18:42	7°♒28'19	0°42'59
max. Earth dist.	-1519 Feb 09 j 20:11	7°♒31'57	21.13135 AU
morning rise	-1519 Feb 24 j 22:00	8°♒22'56	
retrograde	-1519 May 30 j 13:14	11°♒29'08	
opposition	-1519 Aug 16 j 15:02	9°♒29'46	-0°47'59
min. Earth dist.	-1519 Aug 15 j 16:07	9°♒32'04	19.12801 AU
direct	-1519 Oct 30 j 19:07	7°♒33'38	
evening set	-1518 Jan 27 j 23:49	10°♒30'23	
conjunction	-1518 Feb 13 j 00:03	11°♒24'32	-0°43'52
minimum elong	-1518 Feb 13 j 00:03	11°♒24'32	0°43'52
max. Earth dist.	-1518 Feb 13 j 23:41	11°♒27'53	21.12281 AU
morning rise	-1518 Mar 01 j 04:30	12°♒19'15	
	-1518 May 02 j 01:56	15°♒	
retrograde	-1518 Jun 03 j 20:33	15°♒25'36	
	-1518 Jul 07 j 02:30	15°℞♒	
opposition	-1518 Aug 20 j 20:59	13°♒26'09	-0°48'52
min. Earth dist.	-1518 Aug 19 j 23:30	13°♒28'19	19.11758 AU
direct	-1518 Nov 03 j 21:41	11°♒29'57	
evening set	-1517 Feb 01 j 04:30	14°♒26'50	
	-1517 Feb 11 j 01:04	15°♒	
conjunction	-1517 Feb 17 j 05:53	15°♒21'07	-0°44'34
minimum elong	-1517 Feb 17 j 05:53	15°♒21'07	0°44'35
max. Earth dist.	-1517 Feb 18 j 05:48	15°♒24'30	21.11041 AU
morning rise	-1517 Mar 05 j 11:11	16°♒15'58	
retrograde	-1517 Jun 08 j 05:24	19°♒22'28	
min. Earth dist.	-1517 Aug 24 j 05:34	17°♒25'07	19.10310 AU
opposition	-1517 Aug 25 j 02:43	17°♒22'58	-0°49'32
direct	-1517 Nov 08 j 02:46	15°♒26'44	
evening set	-1516 Feb 05 j 09:53	18°♒23'49	
conjunction	-1516 Feb 21 j 12:07	19°♒18'15	-0°45'03
minimum elong	-1516 Feb 21 j 12:07	19°♒18'15	0°45'04
max. Earth dist.	-1516 Feb 22 j 09:49	19°♒21'19	21.09398 AU
morning rise	-1516 Mar 08 j 18:35	20°♒13'14	
retrograde	-1516 Jun 11 j 13:20	23°♒19'59	
opposition	-1516 Aug 28 j 08:26	21°♒20'26	-0°49'57
min. Earth dist.	-1516 Aug 27 j 13:09	21°♒22'23	19.08461 AU
direct	-1516 Nov 11 j 05:19	19°♒24'06	
evening set	-1515 Feb 08 j 15:37	22°♒21'31	
conjunction	-1515 Feb 24 j 19:00	23°♒16'06	-0°45'20
minimum elong	-1515 Feb 24 j 19:00	23°♒16'06	0°45'22
max. Earth dist.	-1515 Feb 25 j 16:35	23°♒19'10	21.07336 AU
morning rise	-1515 Mar 13 j 02:17	24°♒11'15	
retrograde	-1515 Jun 15 j 22:32	27°♒18'15	
opposition	-1515 Sep 01 j 14:12	25°♒18'41	-0°50'09
min. Earth dist.	-1515 Aug 31 j 19:31	25°♒20'35	19.06167 AU
direct	-1515 Nov 15 j 10:35	23°♒22'17	
evening set	-1514 Feb 12 j 21:55	26°♒20'04	
conjunction	-1514 Mar 01 j 02:09	27°♒14'49	-0°45'24
minimum elong	-1514 Mar 01 j 02:09	27°♒14'49	0°45'25
max. Earth dist.	-1514 Mar 01 j 21:12	27°♒17'32	21.04819 AU
morning rise	-1514 Mar 17 j 10:35	28°♒10'09	
	-1514 Apr 23 j 06:10	0°♓	
retrograde	-1514 Jun 20 j 07:42	1°♓17'29	
	-1514 Aug 19 j 04:20	30°℞♒	
opposition	-1514 Sep 05 j 20:16	29°♒17'51	-0°50'07
min. Earth dist.	-1514 Sep 05 j 03:47	29°♒19'32	19.03411 AU
direct	-1514 Nov 19 j 13:59	27°♒21'19	
	-1513 Feb 11 j 06:12	0°♓	
evening set	-1513 Feb 17 j 04:52	0°♓19'34	
conjunction	-1513 Mar 05 j 10:19	1°♓14'31	-0°45'15
minimum elong	-1513 Mar 05 j 10:19	1°♓14'31	0°45'15
max. Earth dist.	-1513 Mar 06 j 04:47	1°♓17'09	21.01812 AU
morning rise	-1513 Mar 21 j 19:34	2°♓10'02	
retrograde	-1513 Jun 24 j 17:04	5°♓17'41	
min. Earth dist.	-1513 Sep 09 j 10:42	3°♓19'35	19.00135 AU
opposition	-1513 Sep 10 j 02:14	3°♓18'00	-0°49'50
direct	-1513 Nov 23 j 19:34	1°♓21'18	
evening set	-1512 Feb 21 j 12:41	4°♓20'04	
conjunction	-1512 Mar 08 j 19:01	5°♓15'13	-0°44'53
minimum elong	-1512 Mar 08 j 19:01	5°♓15'13	0°44'54
max. Earth dist.	-1512 Mar 09 j 10:22	5°♓17'24	20.98273 AU
morning rise	-1512 Mar 25 j 05:23	6°♓10'57	
retrograde	-1512 Jun 28 j 02:55	9°♓18'57	
opposition	-1512 Sep 13 j 08:38	7°♓19'09	-0°49'17
min. Earth dist.	-1512 Sep 12 j 19:39	7°♓20'28	18.96326 AU
direct	-1512 Nov 27 j 00:09	5°♓22'14	
evening set	-1511 Feb 24 j 20:50	8°♓21'33	
conjunction	-1511 Mar 13 j 04:22	9°♓16'57	-0°44'17
minimum elong	-1511 Mar 13 j 04:22	9°♓16'57	0°44'16
max. Earth dist.	-1511 Mar 13 j 18:48	9°♓19'00	20.94195 AU
morning rise	-1511 Mar 29 j 15:30	10°♓12'52	
retrograde	-1511 Jul 02 j 12:32	13°♓21'14	
opposition	-1511 Sep 17 j 15:03	11°♓21'18	-0°48'31
min. Earth dist.	-1511 Sep 17 j 03:03	11°♓22'32	18.91974 AU
direct	-1511 Dec 01 j 06:27	9°♓24'07	
evening set	-1510 Mar 01 j 05:49	12°♓24'04	
conjunction	-1510 Mar 17 j 14:15	13°♓19'41	-0°43'27
minimum elong	-1510 Mar 17 j 14:15	13°♓19'41	0°43'28
max. Earth dist.	-1510 Mar 18 j 01:33	13°♓21'18	20.89604 AU
morning rise	-1510 Apr 03 j 02:28	14°♓15'50	
retrograde	-1510 Jul 06 j 22:14	17°♓24'35	
opposition	-1510 Sep 21 j 21:47	15°♓24'28	-0°47'29
min. Earth dist.	-1510 Sep 21 j 12:27	15°♓25'25	18.87147 AU
direct	-1510 Dec 05 j 12:09	13°♓26'58	
evening set	-1509 Mar 05 j 15:15	16°♓27'35	
conjunction	-1509 Mar 22 j 00:56	17°♓23'28	-0°42'24
minimum elong	-1509 Mar 22 j 00:56	17°♓23'28	0°42'24
max. Earth dist.	-1509 Mar 22 j 11:19	17°♓24'57	20.84562 AU
morning rise	-1509 Apr 07 j 13:56	18°♓19'50	
retrograde	-1509 Jul 11 j 08:52	21°♓28'59	
opposition	-1509 Sep 26 j 04:36	19°♓28'40	-0°46'13
min. Earth dist.	-1509 Sep 25 j 20:13	19°♓29'32	18.81887 AU
direct	-1509 Dec 09 j 19:22	17°♓30'50	
evening set	-1508 Mar 09 j 01:39	20°♓32'11	
conjunction	-1508 Mar 25 j 12:10	21°♓28'19	-0°41'08
minimum elong	-1508 Mar 25 j 12:10	21°♓28'19	0°41'08
max. Earth dist.	-1508 Mar 25 j 19:30	21°♓29'22	20.79117 AU
morning rise	-1508 Apr 11 j 02:10	22°♓24'56	
retrograde	-1508 Jul 14 j 18:38	25°♓34'31	
opposition	-1508 Sep 29 j 11:43	23°♓34'00	-0°44'42
min. Earth dist.	-1508 Sep 29 j 06:00	23°♓34'35	18.76274 AU
direct	-1508 Dec 13 j 01:35	21°♓35'47	
evening set	-1507 Mar 13 j 12:32	24°♓37'58	
conjunction	-1507 Mar 30 j 00:13	25°♓34'22	-0°39'39
minimum elong	-1507 Mar 30 j 00:13	25°♓34'22	0°39'39
max. Earth dist.	-1507 Mar 30 j 06:40	25°♓35'18	20.73355 AU
morning rise	-1507 Apr 15 j 14:52	26°♓31'14	
retrograde	-1507 Jul 19 j 06:32	29°♓41'16	
opposition	-1507 Oct 03 j 19:07	27°♓40'33	-0°42'57
min. Earth dist.	-1507 Oct 03 j 14:11	27°♓41'03	18.70366 AU
direct	-1507 Dec 17 j 09:52	25°♓41'58	
evening set	-1506 Mar 18 j 00:14	28°♓45'01	

Attention, astronomical year style is used: The year -1506 in astronomical counting style is the year 1507 BCE in historical counting style.

conjunction	-1506 Apr 03 j 12:44	29°♓41'43	-0°37'57
minimum elong	-1506 Apr 03 j 12:44	29°♓41'43	0°37'56
max. Earth dist.	-1506 Apr 03 j 16:18	29°♓42'14	20.67326 AU
	-1506 Apr 08 j 19:43	0°♈	
morning rise	-1506 Apr 20 j 04:19	0°♈38'50	
retrograde	-1506 Jul 23 j 17:08	3°♈49'22	
opposition	-1506 Oct 08 j 03:05	1°♈48'28	-0°40'58
min. Earth dist.	-1506 Oct 08 j 00:44	1°♈48'43	18.64227 AU
	-1506 Dec 01 j 14:17	30°℞♓	
direct	-1506 Dec 21 j 16:34	29°♓49'30	
	-1505 Jan 10 j 16:14	0°♈	
evening set	-1505 Mar 22 j 12:47	2°♈53'31	
conjunction	-1505 Apr 08 j 02:24	3°♈50'30	-0°36'03
minimum elong	-1505 Apr 08 j 02:24	3°♈50'30	0°36'03
max. Earth dist.	-1505 Apr 08 j 04:58	3°♈50'52	20.61090 AU
morning rise	-1505 Apr 24 j 18:36	4°♈47'53	
retrograde	-1505 Jul 28 j 06:33	7°♈58'56	
opposition	-1505 Oct 12 j 11:14	5°♈57'53	-0°38'46
min. Earth dist.	-1505 Oct 12 j 09:37	5°♈58'03	18.57895 AU
direct	-1505 Dec 26 j 02:03	3°♈58'34	
evening set	-1504 Mar 26 j 02:24	7°♈03'36	
conjunction	-1504 Apr 11 j 16:45	8°♈00'53	-0°33'57
minimum elong	-1504 Apr 11 j 16:45	8°♈00'53	0°33'56
max. Earth dist.	-1504 Apr 11 j 16:24	8°♈00'50	20.54679 AU
morning rise	-1504 Apr 28 j 09:44	8°♈58'33	
retrograde	-1504 Jul 31 j 18:29	12°♈10'10	
opposition	-1504 Oct 15 j 20:11	10°♈08'58	-0°36'21
min. Earth dist.	-1504 Oct 15 j 21:10	10°♈08'52	18.51415 AU
direct	-1504 Dec 29 j 09:44	8°♈09'18	
evening set	-1503 Mar 30 j 16:36	11°♈15'26	
conjunction	-1503 Apr 16 j 07:57	12°♈13'02	-0°31'40
minimum elong	-1503 Apr 16 j 07:57	12°♈13'02	0°31'40
max. Earth dist.	-1503 Apr 16 j 06:30	12°♈12'49	20.48139 AU
morning rise	-1503 May 03 j 01:25	13°♈10'58	
retrograde	-1503 Aug 05 j 09:27	16°♈23'12	
opposition	-1503 Oct 20 j 05:33	14°♈21'53	-0°33'43
min. Earth dist.	-1503 Oct 20 j 07:12	14°♈21'43	18.44806 AU
direct	-1502 Jan 02 j 20:26	12°♈21'53	
evening set	-1502 Apr 04 j 08:05	15°♈29'11	
conjunction	-1502 Apr 21 j 00:06	16°♈27'06	-0°29'11
minimum elong	-1502 Apr 21 j 00:06	16°♈27'06	0°29'11
max. Earth dist.	-1502 Apr 20 j 19:50	16°♈26'29	20.41474 AU
morning rise	-1502 May 07 j 18:13	17°♈25'19	
retrograde	-1502 Aug 09 j 22:58	20°♈38'11	
opposition	-1502 Oct 24 j 15:35	18°♈36'47	-0°30'52
min. Earth dist.	-1502 Oct 24 j 20:02	18°♈36'19	18.38085 AU
direct	-1501 Jan 07 j 05:31	16°♈36'26	
evening set	-1501 Apr 09 j 00:30	19°♈44'58	
conjunction	-1501 Apr 25 j 17:25	20°♈43'12	-0°26'31
minimum elong	-1501 Apr 25 j 17:25	20°♈43'12	0°26'31
max. Earth dist.	-1501 Apr 25 j 11:37	20°♈42'22	20.34696 AU
morning rise	-1501 May 12 j 11:57	21°♈41'43	
retrograde	-1501 Aug 14 j 15:36	24°♈55'13	
opposition	-1501 Oct 29 j 02:14	22°♈53'45	-0°27'50
min. Earth dist.	-1501 Oct 29 j 07:36	22°♈53'11	18.31231 AU
direct	-1500 Jan 11 j 17:51	20°♈53'03	
evening set	-1500 Apr 12 j 18:10	24°♈02'53	
conjunction	-1500 Apr 29 j 11:37	25°♈01'26	-0°23'41
minimum elong	-1500 Apr 29 j 11:37	25°♈01'26	0°23'41
max. Earth dist.	-1500 Apr 29 j 02:56	25°♈00'10	20.27763 AU
morning rise	-1500 May 16 j 06:31	26°♈00'14	
retrograde	-1500 Aug 18 j 06:30	29°♈14'23	
opposition	-1500 Nov 01 j 13:42	27°♈12'50	-0°24'37
min. Earth dist.	-1500 Nov 01 j 22:02	27°♈11'57	18.24231 AU
direct	-1499 Jan 15 j 04:39	25°♈11'47	
evening set	-1499 Apr 17 j 12:42	28°♈22'54	
conjunction	-1499 May 04 j 06:51	29°♈21'47	-0°20'42
minimum elong	-1499 May 04 j 06:50	29°♈21'47	0°20'40
max. Earth dist.	-1499 May 03 j 20:13	29°♈20'13	20.20695 AU
	-1499 May 15 j 02:16	0°♉	
morning rise	-1499 May 21 j 02:01	0°♉20'52	
retrograde	-1499 Aug 23 j 00:49	3°♉35'41	
opposition	-1499 Nov 06 j 01:48	1°♉34'01	-0°21'13
min. Earth dist.	-1499 Nov 06 j 11:05	1°♉33'02	18.17090 AU
	-1499 Dec 18 j 01:30	30°℞♈	
direct	-1498 Jan 19 j 18:57	29°♈32'34	
	-1498 Feb 21 j 02:53	0°♉	
evening set	-1498 Apr 22 j 08:17	2°♉45'00	
conjunction	-1498 May 09 j 02:56	3°♉44'12	-0°17'34
minimum elong	-1498 May 09 j 02:56	3°♉44'12	0°17'33
max. Earth dist.	-1498 May 08 j 13:38	3°♉42'15	20.13481 AU
morning rise	-1498 May 25 j 22:21	4°♉43'34	
retrograde	-1498 Aug 27 j 16:54	7°♉59'01	
opposition	-1498 Nov 10 j 14:50	5°♉57'14	-0°17'40
min. Earth dist.	-1498 Nov 11 j 03:01	5°♉55'56	18.09822 AU
direct	-1497 Jan 24 j 07:26	3°♉55'21	
evening set	-1497 Apr 27 j 04:54	7°♉09'08	
max. Earth dist.	-1497 May 13 j 08:32	8°♉06'21	20.06177 AU
conjunction	-1497 May 14 j 00:03	8°♉08'39	-0°14'18
minimum elong	-1497 May 14 j 00:03	8°♉08'39	0°14'17
behind sun begin	-1497 May 13 j 21:06	8°♉08'13	
behind sun end	-1497 May 14 j 02:59	8°♉09'04	
morning rise	-1497 May 30 j 19:37	9°♉08'16	
retrograde	-1497 Sep 01 j 12:37	12°♉24'20	
opposition	-1497 Nov 15 j 04:18	10°♉22'25	-0°13'59
min. Earth dist.	-1497 Nov 15 j 17:26	10°♉21'01	18.02487 AU
direct	-1496 Jan 28 j 23:43	8°♉20'05	
evening set	-1496 May 01 j 02:28	11°♉35'12	
conjunction	-1496 May 17 j 21:58	12°♉35'02	-0°10'56
minimum elong	-1496 May 17 j 21:58	12°♉35'02	0°10'55
behind sun begin	-1496 May 17 j 16:54	12°♉34'18	
behind sun end	-1496 May 18 j 03:01	12°♉35'46	
max. Earth dist.	-1496 May 17 j 04:20	12°♉32'24	19.98827 AU
morning rise	-1496 Jun 03 j 17:29	13°♉34'56	
	-1496 Jun 29 j 15:16	15°♉	
retrograde	-1496 Sep 05 j 05:45	16°♉51'35	
	-1496 Nov 14 j 17:32	15°℞♉	
opposition	-1496 Nov 18 j 18:47	14°♉49'31	-0°10'12
min. Earth dist.	-1496 Nov 19 j 10:30	14°♉47'50	17.95157 AU
direct	-1495 Feb 01 j 14:02	12°♉46'44	
	-1495 Apr 17 j 05:56	15°♉	
evening set	-1495 May 06 j 00:40	16°♉03'10	
conjunction	-1495 May 22 j 20:24	17°♉03'18	-0°07'30
minimum elong	-1495 May 22 j 20:25	17°♉03'18	0°07'29
behind sun begin	-1495 May 22 j 14:15	17°♉02'24	
behind sun end	-1495 May 23 j 02:34	17°♉04'12	
max. Earth dist.	-1495 May 22 j 00:42	17°♉00'21	19.91538 AU
morning rise	-1495 Jun 08 j 15:58	18°♉03'27	
retrograde	-1495 Sep 10 j 02:17	21°♉20'43	
opposition	-1495 Nov 23 j 09:48	19°♉18'29	-0°06'19
min. Earth dist.	-1495 Nov 24 j 02:13	19°♉16'42	17.87923 AU
direct	-1494 Feb 06 j 08:02	17°♉15'14	
evening set	-1494 May 10 j 23:53	20°♉33'00	

Attention, astronomical year style is used: The year -1494 in astronomical counting style is the year 1495 BCE in historical counting style.

conjunction	-1494 May 27 j 19:51	21°♉33'25	-0°03'59
minimum elong	-1494 May 27 j 19:52	21°♉33'25	0°03'57
behind sun begin	-1494 May 27 j 13:10	21°♉32'26	
behind sun end	-1494 May 28 j 02:35	21°♉34'24	
max. Earth dist.	-1494 May 26 j 22:49	21°♉30'15	19.84366 AU
morning rise	-1494 Jun 13 j 15:10	22°♉33'48	
retrograde	-1494 Sep 14 j 20:15	25°♉51'38	
opposition	-1494 Nov 28 j 01:36	23°♉49'15	-0°02'23
min. Earth dist.	-1494 Nov 28 j 20:14	23°♉47'14	17.80852 AU
direct	-1493 Feb 11 j 00:25	21°♉45'33	
evening set	-1493 May 15 j 23:59	25°♉04'40	
conjunction	-1493 Jun 01 j 19:57	26°♉05'21	-0°00'22
minimum elong	-1493 Jun 01 j 19:58	26°♉05'21	0°00'21
behind sun begin	-1493 Jun 01 j 13:12	26°♉04'21	
behind sun end	-1493 Jun 02 j 02:44	26°♉06'21	
max. Earth dist.	-1493 May 31 j 20:47	26°♉01'50	19.77413 AU
morning rise	-1493 Jun 18 j 15:08	27°♉05'57	
asc. node	-1493 Jul 07 j 16:58	28°♉10'47	
	-1493 Aug 20 j 13:58	0°♊	
retrograde	-1493 Sep 19 j 17:27	0°♊24'21	
	-1493 Oct 20 j 00:41	30°℞♉	
opposition	-1493 Dec 02 j 18:09	28°♉21'50	0°01'36
min. Earth dist.	-1493 Dec 03 j 13:20	28°♉19'44	17.74037 AU
direct	-1492 Feb 15 j 20:19	26°♉17'41	
evening set	-1492 May 20 j 00:42	29°♉38'07	
	-1492 May 26 j 03:05	0°♊	
conjunction	-1492 Jun 05 j 20:42	0°♊39'04	0°03'19
minimum elong	-1492 Jun 05 j 20:43	0°♊39'04	0°03'21
behind sun begin	-1492 Jun 05 j 13:58	0°♊38'04	
behind sun end	-1492 Jun 06 j 03:28	0°♊40'04	
max. Earth dist.	-1492 Jun 04 j 21:01	0°♊35'28	19.70733 AU
morning rise	-1492 Jun 22 j 15:19	1°♊39'51	
retrograde	-1492 Sep 23 j 12:27	4°♊58'48	
opposition	-1492 Dec 06 j 11:38	2°♊56'11	0°05'36
min. Earth dist.	-1492 Dec 07 j 08:25	2°♊53'55	17.67535 AU
direct	-1491 Feb 19 j 15:11	0°♊51'39	
evening set	-1491 May 25 j 02:17	4°♊13'23	
conjunction	-1491 Jun 10 j 22:01	5°♊14'33	0°06'53
minimum elong	-1491 Jun 10 j 22:01	5°♊14'33	0°06'54
behind sun begin	-1491 Jun 10 j 15:44	5°♊13'37	
behind sun end	-1491 Jun 11 j 04:18	5°♊15'29	
max. Earth dist.	-1491 Jun 09 j 20:19	5°♊10'38	19.64424 AU
morning rise	-1491 Jun 27 j 16:20	6°♊15'32	
retrograde	-1491 Sep 28 j 10:06	9°♊35'01	
opposition	-1491 Dec 11 j 05:44	7°♊32'20	0°09'35
min. Earth dist.	-1491 Dec 12 j 02:54	7°♊30'01	17.61435 AU
direct	-1490 Feb 24 j 12:32	5°♊27'26	
evening set	-1490 May 30 j 04:29	8°♊50'26	
max. Earth dist.	-1490 Jun 14 j 22:30	9°♊47'54	19.58523 AU
conjunction	-1490 Jun 16 j 00:10	9°♊51'50	0°10'26
minimum elong	-1490 Jun 16 j 00:10	9°♊51'50	0°10'27
behind sun begin	-1490 Jun 15 j 18:55	9°♊51'03	
behind sun end	-1490 Jun 16 j 05:25	9°♊52'37	
morning rise	-1490 Jul 02 j 17:45	10°♊52'59	
retrograde	-1490 Oct 03 j 07:11	14°♊12'58	
opposition	-1490 Dec 16 j 00:51	12°♊10'16	0°13'32
min. Earth dist.	-1490 Dec 16 j 23:09	12°♊07'49	17.55752 AU
direct	-1489 Mar 01 j 09:54	10°♊05'04	
evening set	-1489 Jun 04 j 07:38	13°♊29'19	
max. Earth dist.	-1489 Jun 19 j 23:08	14°♊26'38	19.53065 AU
conjunction	-1489 Jun 21 j 02:47	14°♊30'54	0°13'57
minimum elong	-1489 Jun 21 j 02:46	14°♊30'54	0°13'59
behind sun begin	-1489 Jun 20 j 23:32	14°♊30'24	
behind sun end	-1489 Jun 21 j 06:01	14°♊31'23	
morning rise	-1489 Jul 07 j 19:51	15°♊32'12	
retrograde	-1489 Oct 08 j 05:45	18°♊52'41	
opposition	-1489 Dec 20 j 20:40	16°♊49'59	0°17'25
min. Earth dist.	-1489 Dec 21 j 19:30	16°♊47'29	17.50527 AU
direct	-1488 Mar 05 j 08:39	14°♊44'31	
evening set	-1488 Jun 08 j 11:16	18°♊09'59	
max. Earth dist.	-1488 Jun 24 j 02:55	19°♊07'32	19.48054 AU
conjunction	-1488 Jun 25 j 06:07	19°♊11'44	0°17'23
minimum elong	-1488 Jun 25 j 06:06	19°♊11'44	0°17'25
morning rise	-1488 Jul 11 j 22:16	20°♊13'09	
retrograde	-1488 Oct 12 j 04:58	23°♊34'06	
opposition	-1488 Dec 24 j 17:27	21°♊31'27	0°21'13
min. Earth dist.	-1488 Dec 25 j 17:01	21°♊28'52	17.45737 AU
direct	-1487 Mar 10 j 07:44	19°♊25'46	
evening set	-1487 Jun 13 j 15:32	22°♊52'21	
max. Earth dist.	-1487 Jun 29 j 04:38	23°♊49'44	19.43480 AU
conjunction	-1487 Jun 30 j 09:38	23°♊54'14	0°20'45
minimum elong	-1487 Jun 30 j 09:38	23°♊54'14	0°20'47
morning rise	-1487 Jul 17 j 01:07	24°♊55'46	
retrograde	-1487 Oct 17 j 04:43	28°♊17'10	
opposition	-1487 Dec 29 j 15:02	26°♊14'32	0°24'54
min. Earth dist.	-1487 Dec 30 j 15:23	26°♊11'53	17.41384 AU
direct	-1486 Mar 15 j 07:44	24°♊08'37	
evening set	-1486 Jun 18 j 20:20	27°♊36'16	
max. Earth dist.	-1486 Jul 04 j 09:24	28°♊33'50	19.39322 AU
conjunction	-1486 Jul 05 j 13:56	28°♊38'17	0°23'59
minimum elong	-1486 Jul 05 j 13:56	28°♊38'17	0°24'00
morning rise	-1486 Jul 22 j 04:21	29°♊39'53	
	-1486 Jul 27 j 18:04	0°♋	
retrograde	-1486 Oct 22 j 05:23	3°♋01'38	
opposition	-1485 Jan 03 j 13:21	0°♋59'04	0°28'26
min. Earth dist.	-1485 Jan 04 j 14:01	0°♋56'22	17.37428 AU
	-1485 Jan 26 j 22:39	30°℞♊	
direct	-1485 Mar 20 j 08:36	28°♊52'57	
	-1485 May 10 j 11:28	0°♋	
evening set	-1485 Jun 24 j 01:45	2°♋21'33	
conjunction	-1485 Jul 10 j 18:25	3°♋23'39	0°27'04
minimum elong	-1485 Jul 10 j 18:25	3°♋23'39	0°27'05
max. Earth dist.	-1485 Jul 09 j 12:21	3°♋18'58	19.35568 AU
morning rise	-1485 Jul 27 j 07:54	4°♋25'18	
retrograde	-1485 Oct 27 j 05:42	7°♋47'23	
opposition	-1484 Jan 08 j 12:32	5°♋44'51	0°31'48
min. Earth dist.	-1484 Jan 09 j 14:05	5°♋42'03	17.33897 AU
direct	-1484 Mar 24 j 09:57	3°♋38'31	
evening set	-1484 Jun 28 j 07:05	7°♋07'59	
conjunction	-1484 Jul 14 j 23:00	8°♋10'08	0°29'59
minimum elong	-1484 Jul 14 j 23:00	8°♋10'08	0°30'01
max. Earth dist.	-1484 Jul 13 j 17:33	8°♋05'31	19.32245 AU
morning rise	-1484 Jul 31 j 11:22	9°♋11'48	
retrograde	-1484 Oct 31 j 06:58	12°♋34'09	
opposition	-1483 Jan 12 j 12:21	10°♋31'38	0°34'57
min. Earth dist.	-1483 Jan 13 j 13:28	10°♋28'53	17.30789 AU
direct	-1483 Mar 29 j 12:29	8°♋25'08	
evening set	-1483 Jul 03 j 12:50	11°♋55'19	
max. Earth dist.	-1483 Jul 18 j 21:34	12°♋52'46	19.29365 AU
conjunction	-1483 Jul 20 j 03:45	12°♋57'30	0°32'42
minimum elong	-1483 Jul 20 j 03:44	12°♋57'30	0°32'42
morning rise	-1483 Aug 05 j 15:01	13°♋59'10	
retrograde	-1483 Nov 05 j 07:20	17°♋21'43	

Attention, astronomical year style is used: The year -1482 in astronomical counting style is the year 1483 BCE in historical counting style.

opposition	-1482 Jan 17 j 12:39	15°♋19'13	0°37'52
min. Earth dist.	-1482 Jan 18 j 14:36	15°♋16'22	17.28161 AU
direct	-1482 Apr 03 j 14:48	13°♋12'33	
evening set	-1482 Jul 08 j 18:34	16°♋43'22	
max. Earth dist.	-1482 Jul 24 j 02:56	17°♋40'53	19.26986 AU
conjunction	-1482 Jul 25 j 08:32	17°♋45'32	0°35'11
minimum elong	-1482 Jul 25 j 08:32	17°♋45'32	0°35'13
morning rise	-1482 Aug 10 j 18:40	18°♋47'11	
retrograde	-1482 Nov 10 j 08:52	22°♋09'52	
opposition	-1481 Jan 22 j 13:31	20°♋07'22	0°40'30
min. Earth dist.	-1481 Jan 23 j 14:27	20°♋04'38	17.26033 AU
direct	-1481 Apr 08 j 19:00	18°♋00'34	
evening set	-1481 Jul 14 j 00:13	21°♋31'52	
max. Earth dist.	-1481 Jul 29 j 07:53	22°♋29'25	19.25127 AU
conjunction	-1481 Jul 30 j 13:05	22°♋34'01	0°37'26
minimum elong	-1481 Jul 30 j 13:05	22°♋34'01	0°37'27
morning rise	-1481 Aug 15 j 21:57	23°♋35'35	
retrograde	-1481 Nov 15 j 08:51	26°♋58'22	
opposition	-1480 Jan 27 j 14:59	24°♋55'53	0°42'52
min. Earth dist.	-1480 Jan 28 j 16:25	24°♋53'06	17.24470 AU
direct	-1480 Apr 12 j 22:17	22°♋48'59	
evening set	-1480 Jul 18 j 05:39	26°♋20'39	
conjunction	-1480 Aug 03 j 17:21	27°♋22'43	0°39'24
minimum elong	-1480 Aug 03 j 17:21	27°♋22'43	0°39'25
max. Earth dist.	-1480 Aug 02 j 12:53	27°♋18'13	19.23868 AU
morning rise	-1480 Aug 20 j 01:05	28°♋24'13	
	-1480 Sep 16 j 20:29	0°♌	
retrograde	-1480 Nov 19 j 10:09	1°♌47'02	
	-1479 Jan 25 j 18:50	30°℞♋	
opposition	-1479 Jan 31 j 16:39	29°♋44'33	0°44'56
min. Earth dist.	-1479 Feb 01 j 16:21	29°♋41'57	17.23519 AU
direct	-1479 Apr 18 j 03:38	27°♋37'35	
	-1479 Jul 03 j 19:55	0°♌	
evening set	-1479 Jul 23 j 10:40	1°♌09'29	
conjunction	-1479 Aug 08 j 21:17	2°♌11'28	0°41'06
minimum elong	-1479 Aug 08 j 21:17	2°♌11'28	0°41'09
max. Earth dist.	-1479 Aug 07 j 18:21	2°♌07'12	19.23235 AU
morning rise	-1479 Aug 25 j 03:42	3°♌12'51	
retrograde	-1479 Nov 24 j 09:49	6°♌35'38	
opposition	-1478 Feb 05 j 18:51	4°♌33'12	0°46'41
min. Earth dist.	-1478 Feb 06 j 18:36	4°♌30'36	17.23224 AU
direct	-1478 Apr 23 j 07:57	2°♌26'14	
evening set	-1478 Jul 28 j 15:32	5°♌58'14	
max. Earth dist.	-1478 Aug 12 j 22:35	6°♌55'56	19.23288 AU
conjunction	-1478 Aug 14 j 00:48	7°♌00'05	0°42'31
minimum elong	-1478 Aug 14 j 00:48	7°♌00'05	0°42'32
morning rise	-1478 Aug 30 j 06:05	8°♌01'20	
retrograde	-1478 Nov 29 j 10:44	11°♌24'04	
opposition	-1477 Feb 10 j 21:07	9°♌21'41	0°48'06
min. Earth dist.	-1477 Feb 11 j 18:40	9°♌19'20	17.23623 AU
direct	-1477 Apr 28 j 14:00	7°♌14'46	
evening set	-1477 Aug 02 j 19:52	10°♌46'47	
max. Earth dist.	-1477 Aug 18 j 04:13	11°♌44'42	19.24041 AU
conjunction	-1477 Aug 19 j 04:02	11°♌48'29	0°43'39
minimum elong	-1477 Aug 19 j 04:02	11°♌48'29	0°43'40
morning rise	-1477 Sep 04 j 07:53	12°♌49'35	
	-1477 Oct 14 j 01:24	15°♌	
retrograde	-1477 Dec 04 j 10:23	16°♌12'11	
	-1476 Jan 27 j 04:37	15°℞♌	
opposition	-1476 Feb 15 j 23:54	14°♌09'56	0°49'11
min. Earth dist.	-1476 Feb 16 j 20:56	14°♌07'39	17.24732 AU
direct	-1476 May 02 j 18:10	12°♌03'09	
	-1476 Jul 28 j 08:57	15°♌	
evening set	-1476 Aug 06 j 23:41	15°♌35'01	
max. Earth dist.	-1476 Aug 22 j 07:26	16°♌32'54	19.25513 AU
conjunction	-1476 Aug 23 j 06:26	16°♌36'33	0°44'28
minimum elong	-1476 Aug 23 j 06:26	16°♌36'33	0°44'28
morning rise	-1476 Sep 08 j 09:15	17°♌37'28	
retrograde	-1476 Dec 08 j 11:44	20°♌59'56	
opposition	-1475 Feb 20 j 02:37	18°♌57'49	0°49'55
min. Earth dist.	-1475 Feb 20 j 21:20	18°♌55'48	17.26542 AU
direct	-1475 May 07 j 23:37	16°♌51'13	
evening set	-1475 Aug 12 j 02:57	20°♌22'51	
conjunction	-1475 Aug 28 j 08:38	21°♌24'11	0°44'58
minimum elong	-1475 Aug 28 j 08:38	21°♌24'11	0°44'58
max. Earth dist.	-1475 Aug 27 j 12:30	21°♌21'00	19.27655 AU
morning rise	-1475 Sep 13 j 10:05	22°♌24'56	
retrograde	-1475 Dec 13 j 11:34	25°♌47'11	
opposition	-1474 Feb 25 j 05:29	23°♌45'15	0°50'19
min. Earth dist.	-1474 Feb 25 j 23:28	23°♌43'18	17.28990 AU
direct	-1474 May 13 j 03:05	21°♌38'54	
evening set	-1474 Aug 17 j 05:52	25°♌10'10	
conjunction	-1474 Sep 02 j 10:07	26°♌11'17	0°45'10
minimum elong	-1474 Sep 02 j 10:07	26°♌11'17	0°45'12
max. Earth dist.	-1474 Sep 01 j 14:40	26°♌08'11	19.30413 AU
morning rise	-1474 Sep 18 j 10:33	27°♌11'48	
	-1474 Nov 13 j 17:24	0°♍	
retrograde	-1474 Dec 18 j 12:52	0°♍33'49	
	-1473 Jan 23 j 07:13	30°℞♌	
opposition	-1473 Mar 02 j 08:29	28°♌32'03	0°50'21
min. Earth dist.	-1473 Mar 03 j 00:22	28°♌30'21	17.32033 AU
direct	-1473 May 18 j 07:34	26°♌25'58	
evening set	-1473 Aug 22 j 07:51	29°♌56'44	
	-1473 Aug 23 j 04:55	0°♍	
conjunction	-1473 Sep 07 j 11:00	0°♍57'37	0°45'04
minimum elong	-1473 Sep 07 j 11:00	0°♍57'37	0°45'04
max. Earth dist.	-1473 Sep 06 j 18:35	0°♍55'01	19.33723 AU
morning rise	-1473 Sep 23 j 10:07	1°♍57'55	
retrograde	-1473 Dec 23 j 12:49	5°♍19'37	
opposition	-1472 Mar 06 j 11:36	3°♍18'02	0°50'03
min. Earth dist.	-1472 Mar 07 j 02:16	3°♍16'28	17.35585 AU
direct	-1472 May 22 j 11:11	1°♍12'15	
evening set	-1472 Aug 26 j 09:21	4°♍42'24	
conjunction	-1472 Sep 11 j 11:07	5°♍43'00	0°44'38
minimum elong	-1472 Sep 11 j 11:07	5°♍43'00	0°44'39
max. Earth dist.	-1472 Sep 10 j 19:29	5°♍40'32	19.37521 AU
morning rise	-1472 Sep 27 j 09:18	6°♍43'04	
retrograde	-1472 Dec 27 j 12:50	10°♍04'24	
opposition	-1471 Mar 11 j 14:25	8°♍02'59	0°49'24
min. Earth dist.	-1471 Mar 12 j 03:16	8°♍01'36	17.39612 AU
direct	-1471 May 27 j 15:02	5°♍57'29	
evening set	-1471 Aug 31 j 09:54	9°♍26'53	
conjunction	-1471 Sep 16 j 10:39	10°♍27'14	0°43'55
minimum elong	-1471 Sep 16 j 10:39	10°♍27'14	0°43'55
max. Earth dist.	-1471 Sep 15 j 21:48	10°♍25'12	19.41757 AU
morning rise	-1471 Oct 02 j 07:41	11°♍27'02	
retrograde	-1470 Jan 01 j 11:56	14°♍47'57	
opposition	-1470 Mar 16 j 17:10	12°♍46'40	0°48'25
min. Earth dist.	-1470 Mar 17 j 04:20	12°♍45'28	17.44029 AU
direct	-1470 Jun 01 j 19:29	10°♍41'30	
evening set	-1470 Sep 05 j 09:43	14°♍10'02	

Attention, astronomical year style is used: The year -1470 in astronomical counting style is the year 1471 BCE in historical counting style.

conjunction	-1470 Sep	21 j 09:10	15°♑10'04	0°42'54
minimum elong	-1470 Sep	21 j 09:10	15°♑10'04	0°42'54
max. Earth dist.	-1470 Sep	20 j 21:23	15°♑08'13	19.46362 AU
morning rise	-1470 Oct	07 j 05:18	16°♑09'37	
retrograde	-1469 Jan	06 j 09:44	19°♑30'04	
opposition	-1469 Mar	21 j 19:39	17°♑28'54	0°47'07
min. Earth dist.	-1469 Mar	22 j 05:14	17°♑27'53	17.48815 AU
direct	-1469 Jun	06 j 22:49	15°♑24'02	
evening set	-1469 Sep	10 j 08:29	18°♑51'36	
conjunction	-1469 Sep	26 j 06:57	19°♑51'21	0°41'35
minimum elong	-1469 Sep	26 j 06:57	19°♑51'21	0°41'36
max. Earth dist.	-1469 Sep	25 j 21:52	19°♑49'55	19.51324 AU
morning rise	-1469 Oct	12 j 02:07	20°♑50'36	
retrograde	-1468 Jan	11 j 07:51	24°♑10'33	
opposition	-1468 Mar	25 j 21:44	22°♑09'28	0°45'30
min. Earth dist.	-1468 Mar	26 j 05:04	22°♑08'42	17.53927 AU
direct	-1468 Jun	11 j 03:02	20°♑04'56	
evening set	-1468 Sep	14 j 06:13	23°♑31'25	
conjunction	-1468 Sep	30 j 03:36	24°♑30'51	0°40'01
minimum elong	-1468 Sep	30 j 03:36	24°♑30'51	0°40'00
max. Earth dist.	-1468 Sep	29 j 20:04	24°♑29'40	19.56602 AU
morning rise	-1468 Oct	15 j 22:01	25°♑29'50	
retrograde	-1467 Jan	15 j 03:38	28°♑49'13	
opposition	-1467 Mar	30 j 23:21	26°♑48'13	0°43'35
min. Earth dist.	-1467 Mar	31 j 05:19	26°♑47'35	17.59364 AU
direct	-1467 Jun	16 j 04:48	24°♑43'59	
evening set	-1467 Sep	19 j 02:56	28°♑09'19	
conjunction	-1467 Oct	04 j 23:23	29°♑08'26	0°38'11
minimum elong	-1467 Oct	04 j 23:23	29°♑08'26	0°38'11
max. Earth dist.	-1467 Oct	04 j 18:22	29°♑07'38	19.62199 AU
	-1467 Oct	18 j 18:27	0°♎	
morning rise	-1467 Oct	20 j 17:01	0°♎07'08	
retrograde	-1466 Jan	20 j 00:26	3°♎25'55	
opposition	-1466 Apr	05 j 00:14	1°♎24'59	0°41'24
min. Earth dist.	-1466 Apr	05 j 03:28	1°♎24'39	17.65103 AU
	-1466 May	12 j 04:52	30°℞♑	
direct	-1466 Jun	21 j 07:49	29°♑21'04	
	-1466 Jul	30 j 04:38	0°♎	
evening set	-1466 Sep	23 j 22:38	2°♎45'10	
conjunction	-1466 Oct	09 j 18:07	3°♎43'58	0°36'08
minimum elong	-1466 Oct	09 j 18:07	3°♎43'58	0°36'07
max. Earth dist.	-1466 Oct	09 j 15:15	3°♎43'31	19.68104 AU
morning rise	-1466 Oct	25 j 11:05	4°♎42'24	
retrograde	-1465 Jan	24 j 18:41	8°♎00'34	
opposition	-1465 Apr	10 j 00:49	5°♎59'42	0°38'58
min. Earth dist.	-1465 Apr	10 j 02:38	5°♎59'30	17.71178 AU
direct	-1465 Jun	26 j 07:30	3°♎56'07	
evening set	-1465 Sep	28 j 17:05	7°♎18'57	
conjunction	-1465 Oct	14 j 11:43	8°♎17'25	0°33'51
minimum elong	-1465 Oct	14 j 11:43	8°♎17'25	0°33'50
max. Earth dist.	-1465 Oct	14 j 11:20	8°♎17'22	19.74350 AU
morning rise	-1465 Oct	30 j 04:06	9°♎15'34	
retrograde	-1464 Jan	29 j 14:29	12°♎33'06	
opposition	-1464 Apr	14 j 00:36	10°♎32'20	0°36'19
min. Earth dist.	-1464 Apr	13 j 23:06	10°♎32'29	17.77580 AU
direct	-1464 Jun	30 j 08:28	8°♎29'08	
evening set	-1464 Oct	02 j 10:39	11°♎50'40	
conjunction	-1464 Oct	18 j 04:30	12°♎48'49	0°31'23
minimum elong	-1464 Oct	18 j 04:30	12°♎48'49	0°31'23
max. Earth dist.	-1464 Oct	18 j 06:42	12°♎49'10	19.80913 AU
morning rise	-1464 Nov	02 j 20:19	13°♎46'41	
retrograde	-1463 Feb	02 j 07:24	17°♎03'36	
opposition	-1463 Apr	18 j 23:39	15°♎02'57	0°33'28
min. Earth dist.	-1463 Apr	18 j 20:51	15°♎03'14	17.84304 AU
direct	-1463 Jul	05 j 06:04	13°♎00'09	
evening set	-1463 Oct	07 j 03:12	16°♎20'23	
conjunction	-1463 Oct	22 j 20:20	17°♎18'13	0°28'45
minimum elong	-1463 Oct	22 j 20:20	17°♎18'13	0°28'44
max. Earth dist.	-1463 Oct	23 j 00:33	17°♎18'52	19.87788 AU
morning rise	-1463 Nov	07 j 11:45	18°♎15'49	
retrograde	-1462 Feb	07 j 02:13	21°♎32'06	
opposition	-1462 Apr	23 j 22:02	19°♎31'36	0°30'26
min. Earth dist.	-1462 Apr	23 j 15:53	19°♎32'14	17.91299 AU
direct	-1462 Jul	10 j 04:28	17°♎29'15	
evening set	-1462 Oct	11 j 18:40	20°♎48'11	
conjunction	-1462 Oct	27 j 11:10	21°♎45'43	0°25'58
minimum elong	-1462 Oct	27 j 11:10	21°♎45'43	0°25'58
max. Earth dist.	-1462 Oct	27 j 18:11	21°♎46'47	19.94894 AU
morning rise	-1462 Nov	12 j 02:08	22°♎43'02	
retrograde	-1461 Feb	11 j 18:20	25°♎58'43	
opposition	-1461 Apr	28 j 19:57	23°♎58'23	0°27'14
min. Earth dist.	-1461 Apr	28 j 12:38	23°♎59'08	17.98504 AU
direct	-1461 Jul	15 j 00:22	21°♎56'31	
evening set	-1461 Oct	16 j 09:18	25°♎14'07	
conjunction	-1461 Nov	01 j 01:11	26°♎11'20	0°23'02
minimum elong	-1461 Nov	01 j 01:11	26°♎11'20	0°23'02
max. Earth dist.	-1461 Nov	01 j 09:49	26°♎12'39	20.02184 AU
morning rise	-1461 Nov	16 j 15:58	27°♎08'24	
	-1460 Jan	17 j 14:57	0°♏	
retrograde	-1460 Feb	16 j 12:20	0°♏23'28	
	-1460 Mar	18 j 04:32	30°℞♎	
opposition	-1460 May	02 j 16:53	28°♎23'20	0°23'54
min. Earth dist.	-1460 May	02 j 06:30	28°♎24'24	18.05846 AU
direct	-1460 Jul	18 j 20:27	26°♎21'56	
evening set	-1460 Oct	19 j 22:55	29°♎38'13	
	-1460 Oct	25 j 23:43	0°♏	
conjunction	-1460 Nov	04 j 14:24	0°♏35'09	0°20'00
minimum elong	-1460 Nov	04 j 14:24	0°♏35'09	0°19'59
max. Earth dist.	-1460 Nov	05 j 01:42	0°♏36'52	20.09553 AU
morning rise	-1460 Nov	20 j 04:54	1°♏31'58	
retrograde	-1459 Feb	20 j 03:19	4°♏46'26	
opposition	-1459 May	07 j 13:19	2°♏46'29	0°20'27
min. Earth dist.	-1459 May	07 j 02:06	2°♏47'37	18.13230 AU
direct	-1459 Jul	23 j 15:01	0°♏45'34	
evening set	-1459 Oct	24 j 11:49	4°♏00'32	
conjunction	-1459 Nov	09 j 02:46	4°♏57'10	0°16'51
minimum elong	-1459 Nov	09 j 02:46	4°♏57'10	0°16'50
max. Earth dist.	-1459 Nov	09 j 15:07	4°♏59'02	20.16932 AU
morning rise	-1459 Nov	24 j 17:12	5°♏53'44	
retrograde	-1458 Feb	24 j 20:33	9°♏07'36	
opposition	-1458 May	12 j 08:51	7°♏07'49	0°16'54
min. Earth dist.	-1458 May	11 j 18:56	7°♏09'14	18.20581 AU
direct	-1458 Jul	28 j 09:28	5°♏07'22	
evening set	-1458 Oct	28 j 23:51	8°♏21'01	
conjunction	-1458 Nov	13 j 14:32	9°♏17'23	0°13'38
minimum elong	-1458 Nov	13 j 14:32	9°♏17'23	0°13'37
behind sun begin	-1458 Nov	13 j 10:49	9°♏16'50	
behind sun end	-1458 Nov	13 j 18:15	9°♏17'56	
max. Earth dist.	-1458 Nov	14 j 05:22	9°♏19'37	20.24232 AU
morning rise	-1458 Nov	29 j 04:47	10°♏13'43	
retrograde	-1457 Mar	01 j 10:08	13°♏26'59	
opposition	-1457 May	17 j 03:54	11°♏27'21	0°13'17

Attention, astronomical year style is used: The year -1457 in astronomical counting style is the year 1458 BCE in historical counting style.

min. Earth dist.	-1457 May 16 j 13:19	11°♏28'50	18.27825 AU
direct	-1457 Aug 02 j 02:56	9°♏27'20	
evening set	-1457 Nov 02 j 11:05	12°♏39'41	
conjunction	-1457 Nov 18 j 01:24	13°♏35'47	0°10'22
minimum elong	-1457 Nov 18 j 01:24	13°♏35'47	0°10'21
behind sun begin	-1457 Nov 17 j 20:11	13°♏35'01	
behind sun end	-1457 Nov 18 j 06:36	13°♏36'33	
max. Earth dist.	-1457 Nov 18 j 16:52	13°♏38'06	20.31399 AU
morning rise	-1457 Dec 03 j 15:48	14°♏31'53	
	-1457 Dec 11 j 17:49	15°♏	
retrograde	-1456 Mar 05 j 02:12	17°♏44'34	
opposition	-1456 May 20 j 22:01	15°♏45'02	0°09'37
min. Earth dist.	-1456 May 20 j 05:09	15°♏46'45	18.34898 AU
	-1456 Jun 08 j 21:29	15°℞♏	
direct	-1456 Aug 05 j 20:12	13°♏45'25	
	-1456 Sep 29 j 16:40	15°♏	
evening set	-1456 Nov 05 j 21:34	16°♏56'29	
conjunction	-1456 Nov 21 j 11:48	17°♏52'20	0°07'04
minimum elong	-1456 Nov 21 j 11:47	17°♏52'20	0°07'02
behind sun begin	-1456 Nov 21 j 05:44	17°♏51'26	
behind sun end	-1456 Nov 21 j 17:51	17°♏53'13	
max. Earth dist.	-1456 Nov 22 j 05:29	17°♏54'59	20.38351 AU
morning rise	-1456 Dec 07 j 02:09	18°♏48'13	
retrograde	-1455 Mar 09 j 14:06	22°♏00'17	
opposition	-1455 May 25 j 15:16	20°♏00'51	0°05'55
min. Earth dist.	-1455 May 24 j 21:56	20°♏02'37	18.41733 AU
direct	-1455 Aug 10 j 12:07	18°♏01'37	
evening set	-1455 Nov 10 j 07:19	21°♏11'24	
conjunction	-1455 Nov 25 j 21:17	22°♏06'59	0°03'45
minimum elong	-1455 Nov 25 j 21:18	22°♏07'00	0°03'44
behind sun begin	-1455 Nov 25 j 14:50	22°♏06'03	
behind sun end	-1455 Nov 26 j 03:46	22°♏07'56	
max. Earth dist.	-1455 Nov 26 j 15:18	22°♏09'41	20.45066 AU
morning rise	-1455 Dec 11 j 11:57	23°♏02'40	
retrograde	-1454 Mar 14 j 04:20	26°♏14'09	
opposition	-1454 May 30 j 07:48	24°♏14'46	0°02'13
min. Earth dist.	-1454 May 29 j 12:32	24°♏16'43	18.48323 AU
direct	-1454 Aug 15 j 03:51	22°♏15'50	
evening set	-1454 Nov 14 j 16:02	25°♏24'23	
conjunction	-1454 Nov 30 j 06:07	26°♏19'44	0°00'21
minimum elong	-1454 Nov 30 j 06:06	26°♏19'44	0°00'20
behind sun begin	-1454 Nov 29 j 23:36	26°♏18'48	
behind sun end	-1454 Nov 30 j 12:37	26°♏20'41	
max. Earth dist.	-1454 Dec 01 j 02:27	26°♏22'46	20.51521 AU
morning rise	-1454 Dec 15 j 20:51	27°♏15'13	
desc. node	-1453 Jan 07 j 11:34	28°♏29'46	
	-1453 Feb 14 j 08:42	0°♐	
retrograde	-1453 Mar 18 j 14:40	0°♐26'08	
	-1453 Apr 20 j 17:00	30°℞♏	
opposition	-1453 Jun 03 j 23:35	28°♏26'46	-0°01'28
min. Earth dist.	-1453 Jun 03 j 03:42	28°♏28'46	18.54656 AU
direct	-1453 Aug 19 j 18:11	26°♏28'07	
evening set	-1453 Nov 19 j 00:10	29°♏35'26	
	-1453 Nov 26 j 00:06	0°♐	
conjunction	-1453 Dec 04 j 14:09	0°♐30'34	-0°03'02
minimum elong	-1453 Dec 04 j 14:09	0°♐30'34	0°03'03
behind sun begin	-1453 Dec 04 j 07:39	0°♐29'38	
behind sun end	-1453 Dec 04 j 20:39	0°♐31'30	
max. Earth dist.	-1453 Dec 05 j 10:50	0°♐33'38	20.57741 AU
morning rise	-1453 Dec 20 j 05:22	1°♐25'53	
retrograde	-1452 Mar 22 j 03:00	4°♐36'12	
opposition	-1452 Jun 07 j 14:16	2°♐36'50	-0°05'06
min. Earth dist.	-1452 Jun 06 j 16:41	2°♐39'00	18.60774 AU
direct	-1452 Aug 23 j 07:33	0°♐38'27	
evening set	-1452 Nov 22 j 07:28	3°♐44'37	
conjunction	-1452 Dec 07 j 21:40	4°♐39'33	-0°06'17
minimum elong	-1452 Dec 07 j 21:41	4°♐39'33	0°06'18
behind sun begin	-1452 Dec 07 j 15:29	4°♐38'40	
behind sun end	-1452 Dec 08 j 03:52	4°♐40'26	
max. Earth dist.	-1452 Dec 08 j 20:43	4°♐42'57	20.63740 AU
morning rise	-1452 Dec 23 j 13:06	5°♐34'41	
retrograde	-1451 Mar 26 j 12:24	8°♐44'28	
min. Earth dist.	-1451 Jun 11 j 05:57	6°♐47'22	18.66674 AU
opposition	-1451 Jun 12 j 04:18	6°♐45'07	-0°08'41
direct	-1451 Aug 27 j 19:57	4°♐47'00	
evening set	-1451 Nov 26 j 14:12	7°♐52'03	
conjunction	-1451 Dec 12 j 04:24	8°♐46'47	-0°09'28
minimum elong	-1451 Dec 12 j 04:24	8°♐46'47	0°09'31
behind sun begin	-1451 Dec 11 j 22:56	8°♐46'00	
behind sun end	-1451 Dec 12 j 09:52	8°♐47'34	
max. Earth dist.	-1451 Dec 13 j 03:41	8°♐50'13	20.69542 AU
morning rise	-1451 Dec 27 j 20:22	9°♐41'46	
retrograde	-1450 Mar 30 j 23:09	12°♐51'04	
opposition	-1450 Jun 16 j 17:34	10°♐51'44	-0°12'12
min. Earth dist.	-1450 Jun 15 j 17:38	10°♐54'08	18.72388 AU
direct	-1450 Sep 01 j 06:57	8°♐53'52	
evening set	-1450 Nov 30 j 20:19	11°♐57'54	
conjunction	-1450 Dec 16 j 10:52	12°♐52'29	-0°12'36
minimum elong	-1450 Dec 16 j 10:52	12°♐52'28	0°12'37
behind sun begin	-1450 Dec 16 j 06:36	12°♐51'52	
behind sun end	-1450 Dec 16 j 15:08	12°♐53'05	
max. Earth dist.	-1450 Dec 17 j 12:26	12°♐56'13	20.75145 AU
morning rise	-1449 Jan 01 j 03:09	13°♐47'19	
retrograde	-1449 Apr 04 j 08:26	16°♐56'09	
min. Earth dist.	-1449 Jun 20 j 05:23	14°♐59'21	18.77887 AU
opposition	-1449 Jun 21 j 06:06	14°♐56'52	-0°15'38
direct	-1449 Sep 05 j 17:38	12°♐59'17	
evening set	-1449 Dec 05 j 02:00	16°♐02'21	
conjunction	-1449 Dec 20 j 16:44	16°♐56'46	-0°15'39
minimum elong	-1449 Dec 20 j 16:44	16°♐56'46	0°15'41
behind sun begin	-1449 Dec 20 j 14:58	16°♐56'31	
behind sun end	-1449 Dec 20 j 18:30	16°♐57'01	
max. Earth dist.	-1449 Dec 21 j 18:15	17°♐00'30	20.80532 AU
morning rise	-1448 Jan 05 j 09:44	17°♐51'30	
retrograde	-1448 Apr 07 j 18:15	20°♐59'55	
opposition	-1448 Jun 24 j 17:57	19°♐00'42	-0°18'57
min. Earth dist.	-1448 Jun 23 j 16:08	19°♐03'17	18.83155 AU
direct	-1448 Sep 09 j 02:39	17°♐03'23	
evening set	-1448 Dec 08 j 07:13	20°♐05'34	
conjunction	-1448 Dec 23 j 22:26	20°♐59'51	-0°18'36
minimum elong	-1448 Dec 23 j 22:26	20°♐59'51	0°18'37
max. Earth dist.	-1448 Dec 25 j 01:52	21°♐03'51	20.85649 AU
morning rise	-1447 Jan 08 j 15:49	21°♐54'28	
retrograde	-1447 Apr 12 j 03:06	25°♐02'31	
min. Earth dist.	-1447 Jun 28 j 02:42	23°♐06'01	18.88121 AU
opposition	-1447 Jun 29 j 05:03	23°♐03'23	-0°22'10
direct	-1447 Sep 13 j 11:51	21°♐06'21	
evening set	-1447 Dec 12 j 12:14	24°♐07'43	
conjunction	-1447 Dec 28 j 03:42	25°♐01'53	-0°21'28
minimum elong	-1447 Dec 28 j 03:41	25°♐01'53	0°21'29
max. Earth dist.	-1447 Dec 29 j 06:44	25°♐05'48	20.90460 AU
morning rise	-1446 Jan 12 j 21:52	25°♐56'25	
retrograde	-1446 Apr 16 j 12:33	29°♐04'08	

Attention, astronomical year style is used: The year -1446 in astronomical counting style is the year 1447 BCE in historical counting style.

opposition	-1446 Jul 03 j 15:45	27°♐05'05	-0°25'16	
min. Earth dist.	-1446 Jul 02 j 12:49	27°♐07'46	18.92766 AU	
direct	-1446 Sep 17 j 19:33	25°♐08'19		
evening set	-1446 Dec 16 j 16:45	28°♐08'56		
conjunction	-1445 Jan 01 j 08:49	29°♐03'00	-0°24'12	
minimum elong	-1445 Jan 01 j 08:49	29°♐03'00	0°24'14	
max. Earth dist.	-1445 Jan 02 j 13:29	29°♐07'09	20.94906 AU	
morning rise	-1445 Jan 17 j 03:31	29°♐57'28		
	-1445 Jan 17 j 21:30	0°♑		
retrograde	-1445 Apr 20 j 20:59	3°♑04'54		
min. Earth dist.	-1445 Jul 06 j 22:41	1°♑08'39	18.97006 AU	
opposition	-1445 Jul 08 j 01:51	1°♑05'56	-0°28'14	
	-1445 Aug 06 j 07:59	30°℞♐		
direct	-1445 Sep 22 j 03:26	29°♐09'24		
	-1445 Nov 06 j 02:06	0°♑		
evening set	-1445 Dec 20 j 21:22	2°♑09'21		
conjunction	-1444 Jan 05 j 13:48	3°♑03'20	-0°26'49	
minimum elong	-1444 Jan 05 j 13:48	3°♑03'20	0°26'50	
max. Earth dist.	-1444 Jan 06 j 17:35	3°♑07'21	20.98928 AU	
morning rise	-1444 Jan 21 j 09:22	3°♑57'45		
retrograde	-1444 Apr 24 j 06:06	7°♑04'56		
min. Earth dist.	-1444 Jul 10 j 08:15	5°♑08'43	19.00802 AU	
opposition	-1444 Jul 11 j 11:19	5°♑06'02	-0°31'03	
direct	-1444 Sep 25 j 10:06	3°♑09'41		
evening set	-1444 Dec 24 j 01:41	6°♑09'03		
conjunction	-1443 Jan 08 j 18:50	7°♑02'59	-0°29'18	
minimum elong	-1443 Jan 08 j 18:50	7°♑02'59	0°29'20	
max. Earth dist.	-1443 Jan 09 j 23:41	7°♑07'08	21.02462 AU	
morning rise	-1443 Jan 24 j 14:58	7°♑57'21		
retrograde	-1443 Apr 28 j 13:56	11°♑04'19		
opposition	-1443 Jul 15 j 20:22	9°♑05'27	-0°33'42	
min. Earth dist.	-1443 Jul 14 j 17:22	9°♑08'09	19.04072 AU	
direct	-1443 Sep 29 j 17:03	7°♑09'17		
evening set	-1443 Dec 28 j 05:53	10°♑08'05		
conjunction	-1442 Jan 12 j 23:30	11°♑01'58	-0°31'38	
minimum elong	-1442 Jan 12 j 23:30	11°♑01'58	0°31'39	
max. Earth dist.	-1442 Jan 14 j 03:04	11°♑05'56	21.05461 AU	
morning rise	-1442 Jan 28 j 20:34	11°♑56'19		
retrograde	-1442 May 02 j 22:32	15°♑03'07		
min. Earth dist.	-1442 Jul 19 j 02:35	13°♑06'53	19.06798 AU	
opposition	-1442 Jul 20 j 05:06	13°♑04'14	-0°36'11	
direct	-1442 Oct 03 j 22:44	11°♑08'11		
evening set	-1441 Jan 01 j 09:56	14°♑06'30		
conjunction	-1441 Jan 17 j 04:24	15°♑00'22	-0°33'48	
minimum elong	-1441 Jan 17 j 04:24	15°♑00'22	0°33'50	
max. Earth dist.	-1441 Jan 18 j 08:46	15°♑04'26	21.07897 AU	
morning rise	-1441 Feb 02 j 02:09	15°♑54'42		
retrograde	-1441 May 07 j 06:00	19°♑01'19		
min. Earth dist.	-1441 Jul 23 j 10:52	17°♑05'02	19.08950 AU	
opposition	-1441 Jul 24 j 13:10	17°♑02'25	-0°38'29	
direct	-1441 Oct 08 j 05:23	15°♑06'25		
evening set	-1440 Jan 05 j 14:00	18°♑04'18		
conjunction	-1440 Jan 21 j 09:04	18°♑58'09	-0°35'48	
minimum elong	-1440 Jan 21 j 09:04	18°♑58'09	0°35'49	
max. Earth dist.	-1440 Jan 22 j 11:56	19°♑01'59	21.09779 AU	
morning rise	-1440 Feb 06 j 07:52	19°♑52'30		
retrograde	-1440 May 10 j 13:54	22°♑58'58		
opposition	-1440 Jul 27 j 20:53	20°♑59'59	-0°40'36	
min. Earth dist.	-1440 Jul 26 j 19:23	21°♑02'32	19.10567 AU	
direct	-1440 Oct 11 j 09:41	19°♑04'00		
evening set	-1439 Jan 08 j 17:48	22°♑01'31		
conjunction	-1439 Jan 24 j 13:46	22°♑55'23	-0°37'38	
minimum elong	-1439 Jan 24 j 13:46	22°♑55'23	0°37'40	
max. Earth dist.	-1439 Jan 25 j 17:24	22°♑59'20	21.11132 AU	
morning rise	-1439 Feb 09 j 13:16	23°♑49'45		
retrograde	-1439 May 14 j 21:01	26°♑56'06		
min. Earth dist.	-1439 Jul 31 j 02:41	24°♑59'35	19.11673 AU	
opposition	-1439 Aug 01 j 04:01	24°♑57'03	-0°42'30	
direct	-1439 Oct 15 j 16:05	23°♑01'03		
evening set	-1438 Jan 12 j 21:46	25°♑58'17		
conjunction	-1438 Jan 28 j 18:23	26°♑52'10	-0°39'16	
minimum elong	-1438 Jan 28 j 18:23	26°♑52'10	0°39'18	
max. Earth dist.	-1438 Jan 29 j 20:32	26°♑55'53	21.12017 AU	
morning rise	-1438 Feb 13 j 18:58	27°♑46'35		
	-1438 Apr 01 j 16:29	0°♒		
retrograde	-1438 May 19 j 04:46	0°♒52'52		
	-1438 Jul 07 j 03:46	30°℞♑		
min. Earth dist.	-1438 Aug 04 j 10:25	28°♑56'09	19.12348 AU	
opposition	-1438 Aug 05 j 10:54	28°♑53'42	-0°44'13	
direct	-1438 Oct 19 j 19:29	26°♑57'40		
evening set	-1437 Jan 17 j 01:34	29°♑54'41		
	-1437 Jan 18 j 15:46	0°♒		
conjunction	-1437 Feb 01 j 23:12	0°♒48'37	-0°40'43	
minimum elong	-1437 Feb 01 j 23:12	0°♒48'37	0°40'44	
max. Earth dist.	-1437 Feb 03 j 02:05	0°♒52'27	21.12475 AU	
morning rise	-1437 Feb 18 j 00:34	1°♒43'05		
retrograde	-1437 May 23 j 11:57	4°♒49'20		
opposition	-1437 Aug 09 j 17:22	2°♒50'05	-0°45'42	
min. Earth dist.	-1437 Aug 08 j 17:00	2°♒52'32	19.12598 AU	
direct	-1437 Oct 24 j 01:05	0°♒54'02		
evening set	-1436 Jan 21 j 05:48	3°♒50'55		
conjunction	-1436 Feb 06 j 04:09	4°♒44'55	-0°41'58	
minimum elong	-1436 Feb 06 j 04:09	4°♒44'55	0°42'00	
max. Earth dist.	-1436 Feb 07 j 05:20	4°♒48'30	21.12530 AU	
morning rise	-1436 Feb 22 j 06:38	5°♒39'28		
retrograde	-1436 May 26 j 20:01	8°♒45'44		
opposition	-1436 Aug 12 j 23:31	6°♒46'24	-0°46'59	
min. Earth dist.	-1436 Aug 12 j 00:14	6°♒48'45	19.12464 AU	
direct	-1436 Oct 27 j 04:28	4°♒50'18		
evening set	-1435 Jan 24 j 10:00	7°♒47'09		
conjunction	-1435 Feb 09 j 09:25	8°♒41'14	-0°43'02	
minimum elong	-1435 Feb 09 j 09:25	8°♒41'14	0°43'02	
max. Earth dist.	-1435 Feb 10 j 11:06	8°♒44'53	21.12198 AU	
morning rise	-1435 Feb 25 j 12:41	9°♒35'52		
retrograde	-1435 May 31 j 03:26	12°♒42'12		
min. Earth dist.	-1435 Aug 16 j 06:27	10°♒45'09	19.11933 AU	
opposition	-1435 Aug 17 j 05:33	10°♒42'49	-0°48'03	
direct	-1435 Oct 31 j 08:58	8°♒46'42		
evening set	-1434 Jan 28 j 14:30	11°♒43'34		
conjunction	-1434 Feb 13 j 14:42	12°♒37'45	-0°43'54	
minimum elong	-1434 Feb 13 j 14:42	12°♒37'45	0°43'55	
max. Earth dist.	-1434 Feb 14 j 14:33	12°♒41'08	21.11482 AU	
morning rise	-1434 Mar 01 j 19:08	13°♒32'30		
	-1434 Mar 30 j 04:33	15°♒		
retrograde	-1434 Jun 04 j 12:02	16°♒38'58		
	-1434 Aug 12 j 23:21	15°℞♒		
opposition	-1434 Aug 21 j 11:37	14°♒39'31	-0°48'53	
min. Earth dist.	-1434 Aug 20 j 13:49	14°♒41'43	19.11021 AU	
direct	-1434 Nov 04 j 12:37	12°♒43'20		
	-1433 Jan 20 j 08:14	15°♒		
evening set	-1433 Feb 01 j 19:22	15°♒40'20		
conjunction	-1433 Feb 17 j 20:44	16°♒34'39	-0°44'33	

Attention, astronomical year style is used: The year -1433 in astronomical counting style is the year 1434 BCE in historical counting style.

minimum elong	-1433 Feb 17 j 20:44	16°♒34'39	0°44'34	
max. Earth dist.	-1433 Feb 18 j 20:50	16°♒38'04	21.10365 AU	
morning rise	-1433 Mar 06 j 02:00	17°♒29'31		
retrograde	-1433 Jun 08 j 20:00	20°♒36'08		
opposition	-1433 Aug 25 j 17:22	18°♒36'39	-0°49'30	
min. Earth dist.	-1433 Aug 24 j 20:05	18°♒38'49	19.09688 AU	
direct	-1433 Nov 08 j 16:50	16°♒40'25		
evening set	-1432 Feb 06 j 00:52	19°♒37'38		
conjunction	-1432 Feb 22 j 03:03	20°♒32'04	-0°45'00	
minimum elong	-1432 Feb 22 j 03:03	20°♒32'04	0°45'02	
max. Earth dist.	-1432 Feb 23 j 00:53	20°♒35'10	21.08823 AU	
morning rise	-1432 Mar 09 j 09:29	21°♒27'06		
retrograde	-1432 Jun 12 j 04:41	24°♒33'56		
opposition	-1432 Aug 28 j 23:20	22°♒34'24	-0°49'53	
min. Earth dist.	-1432 Aug 28 j 03:50	22°♒36'22	19.07920 AU	
direct	-1432 Nov 11 j 20:35	20°♒38'05		
evening set	-1431 Feb 09 j 06:37	23°♒35'35		
conjunction	-1431 Feb 25 j 09:57	24°♒30'11	-0°45'15	
minimum elong	-1431 Feb 25 j 09:57	24°♒30'11	0°45'16	
max. Earth dist.	-1431 Feb 26 j 07:38	24°♒33'16	21.06815 AU	
morning rise	-1431 Mar 13 j 17:10	25°♒25'21		
retrograde	-1431 Jun 16 j 13:41	28°♒32'26		
min. Earth dist.	-1431 Sep 01 j 10:33	26°♒34'45	19.05658 AU	
opposition	-1431 Sep 02 j 05:14	26°♒32'51	-0°50'02	
direct	-1431 Nov 16 j 01:31	24°♒36'26		
evening set	-1430 Feb 13 j 13:11	27°♒34'18		
conjunction	-1430 Mar 01 j 17:23	28°♒29'04	-0°45'16	
minimum elong	-1430 Mar 01 j 17:23	28°♒29'04	0°45'17	
max. Earth dist.	-1430 Mar 02 j 12:22	28°♒31'46	21.04308 AU	
morning rise	-1430 Mar 18 j 01:45	29°♒24'25		
	-1430 Mar 29 j 00:17	0°♓		
retrograde	-1430 Jun 20 j 22:15	2°♓31'47		
opposition	-1430 Sep 06 j 11:21	0°♓32'07	-0°49'56	
min. Earth dist.	-1430 Sep 05 j 18:53	0°♓33'48	19.02890 AU	
	-1430 Sep 19 j 19:06	30°℞♒		
direct	-1430 Nov 20 j 05:21	28°♒35'33		
	-1429 Jan 18 j 01:36	0°♓		
evening set	-1429 Feb 17 j 20:11	1°♓33'50		
conjunction	-1429 Mar 06 j 01:37	2°♓28'48	-0°45'04	
minimum elong	-1429 Mar 06 j 01:37	2°♓28'48	0°45'05	
max. Earth dist.	-1429 Mar 06 j 19:56	2°♓31'24	21.01266 AU	
morning rise	-1429 Mar 22 j 10:49	3°♓24'19		
retrograde	-1429 Jun 25 j 08:25	6°♓31'59		
opposition	-1429 Sep 10 j 17:30	4°♓32'14	-0°49'36	
min. Earth dist.	-1429 Sep 10 j 02:07	4°♓33'48	18.99560 AU	
direct	-1429 Nov 24 j 11:16	2°♓35'28		
evening set	-1428 Feb 22 j 03:59	5°♓34'13		
conjunction	-1428 Mar 09 j 10:16	6°♓29'23	-0°44'39	
minimum elong	-1428 Mar 09 j 10:16	6°♓29'23	0°44'38	
max. Earth dist.	-1428 Mar 10 j 01:29	6°♓31'33	20.97669 AU	
morning rise	-1428 Mar 25 j 20:35	7°♓25'06		
retrograde	-1428 Jun 28 j 16:53	10°♓33'06		
opposition	-1428 Sep 13 j 23:48	8°♓33'12	-0°49'01	
min. Earth dist.	-1428 Sep 13 j 10:53	8°♓34'31	18.95697 AU	
direct	-1428 Nov 27 j 15:29	6°♓36'11		
evening set	-1427 Feb 25 j 12:07	9°♓35'29		
conjunction	-1427 Mar 13 j 19:38	10°♓30'52	-0°44'00	
minimum elong	-1427 Mar 13 j 19:38	10°♓30'52	0°44'01	
max. Earth dist.	-1427 Mar 14 j 10:04	10°♓32'56	20.93555 AU	
morning rise	-1427 Mar 30 j 06:43	11°♓26'48		
retrograde	-1427 Jul 03 j 03:27	14°♓35'07		
opposition	-1427 Sep 18 j 06:13	12°♓35'04	-0°48'11	
min. Earth dist.	-1427 Sep 17 j 18:17	12°♓36'17	18.91332 AU	
direct	-1427 Dec 01 j 22:17	10°♓37'47		
evening set	-1426 Mar 01 j 20:53	13°♓37'40		
conjunction	-1426 Mar 18 j 05:18	14°♓33'17	-0°43'08	
minimum elong	-1426 Mar 18 j 05:18	14°♓33'17	0°43'08	
max. Earth dist.	-1426 Mar 18 j 16:45	14°♓34'55	20.88977 AU	
morning rise	-1426 Apr 03 j 17:32	15°♓29'26		
retrograde	-1426 Jul 07 j 12:38	18°♓38'08		
opposition	-1426 Sep 22 j 12:55	16°♓37'53	-0°47'06	
min. Earth dist.	-1426 Sep 22 j 03:27	16°♓38'52	18.86544 AU	
direct	-1426 Dec 06 j 03:12	14°♓40'17		
evening set	-1425 Mar 06 j 06:18	17°♓40'51		
conjunction	-1425 Mar 22 j 15:57	18°♓36'43	-0°42'03	
minimum elong	-1425 Mar 22 j 15:57	18°♓36'43	0°42'03	
max. Earth dist.	-1425 Mar 23 j 02:37	18°♓38'15	20.84000 AU	
morning rise	-1425 Apr 08 j 04:54	19°♓33'05		
retrograde	-1425 Jul 11 j 23:30	22°♓42'11		
opposition	-1425 Sep 26 j 19:32	20°♓41'46	-0°45'48	
min. Earth dist.	-1425 Sep 26 j 11:00	20°♓42'39	18.81384 AU	
direct	-1425 Dec 10 j 10:38	18°♓43'50		
evening set	-1424 Mar 09 j 16:35	21°♓45'09		
conjunction	-1424 Mar 26 j 03:04	22°♓41'17	-0°40'44	
minimum elong	-1424 Mar 26 j 03:04	22°♓41'17	0°40'44	
max. Earth dist.	-1424 Mar 26 j 10:45	22°♓42'23	20.78686 AU	
morning rise	-1424 Apr 11 j 17:02	23°♓37'54		
retrograde	-1424 Jul 15 j 09:45	26°♓47'26		
opposition	-1424 Sep 30 j 02:44	24°♓46'49	-0°44'15	
min. Earth dist.	-1424 Sep 29 j 20:35	24°♓47'28	18.75929 AU	
direct	-1424 Dec 13 j 16:23	22°♓48'33		
evening set	-1423 Mar 14 j 03:14	25°♓50'42		
conjunction	-1423 Mar 30 j 14:52	26°♓47'06	-0°39'14	
minimum elong	-1423 Mar 30 j 14:52	26°♓47'06	0°39'13	
max. Earth dist.	-1423 Mar 30 j 21:52	26°♓48'06	20.73101 AU	
morning rise	-1423 Apr 16 j 05:29	27°♓43'57		
	-1423 Jun 02 j 11:59	0°♈		
retrograde	-1423 Jul 19 j 21:16	0°♈53'58		
	-1423 Sep 06 j 00:56	30°℞♓		
opposition	-1423 Oct 04 j 10:07	28°♓53'13	-0°42'28	
min. Earth dist.	-1423 Oct 04 j 04:39	28°♓53'47	18.70219 AU	
direct	-1423 Dec 18 j 00:24	26°♓54'37		
evening set	-1422 Mar 18 j 15:00	29°♓57'39		
	-1422 Mar 19 j 07:44	0°♈		
conjunction	-1422 Apr 04 j 03:26	0°♈54'19	-0°37'30	
minimum elong	-1422 Apr 04 j 03:26	0°♈54'19	0°37'31	
max. Earth dist.	-1422 Apr 04 j 07:31	0°♈54'55	20.67289 AU	
morning rise	-1422 Apr 20 j 18:59	1°♈51'27		
retrograde	-1422 Jul 24 j 08:33	5°♈01'59		
opposition	-1422 Oct 08 j 17:58	3°♈01'04	-0°40'28	
min. Earth dist.	-1422 Oct 08 j 14:58	3°♈01'23	18.64313 AU	
direct	-1422 Dec 22 j 07:24	1°♈02'08		
evening set	-1421 Mar 23 j 03:29	4°♈06'08		
conjunction	-1421 Apr 08 j 17:03	5°♈03'07	-0°35'35	
minimum elong	-1421 Apr 08 j 17:03	5°♈03'07	0°35'34	
max. Earth dist.	-1421 Apr 08 j 20:15	5°♈03'35	20.61296 AU	
morning rise	-1421 Apr 25 j 09:12	6°♈00'30		
retrograde	-1421 Jul 28 j 21:20	9°♈11'34		
opposition	-1421 Oct 13 j 02:12	7°♈10'33	-0°38'14	
min. Earth dist.	-1421 Oct 12 j 23:57	7°♈10'47	18.58225 AU	
direct	-1421 Dec 26 j 16:18	5°♈11'18		
evening set	-1420 Mar 26 j 17:00	8°♈16'21		

Attention, astronomical year style is used: The year -1420 in astronomical counting style is the year 1421 BCE in historical counting style.

conjunction	-1420 Apr 12 j 07:17	9°♈13'37	-0°33'27
minimum elong	-1420 Apr 12 j 07:17	9°♈13'37	0°33'28
max. Earth dist.	-1420 Apr 12 j 07:32	9°♈13'39	20.55130 AU
morning rise	-1420 Apr 29 j 00:12	10°♈11'17	
retrograde	-1420 Aug 01 j 09:41	13°♈22'56	
opposition	-1420 Oct 16 j 11:04	11°♈21'48	-0°35'47
min. Earth dist.	-1420 Oct 16 j 11:25	11°♈21'46	18.51984 AU
direct	-1420 Dec 30 j 00:32	9°♈22'15	
evening set	-1419 Mar 31 j 07:19	12°♈28'24	
conjunction	-1419 Apr 16 j 22:37	13°♈25'59	-0°31'09
minimum elong	-1419 Apr 16 j 22:37	13°♈25'59	0°31'08
max. Earth dist.	-1419 Apr 16 j 21:49	13°♈25'52	20.48819 AU
morning rise	-1419 May 03 j 16:02	14°♈23'54	
retrograde	-1419 Aug 06 j 00:15	17°♈36'09	
opposition	-1419 Oct 20 j 20:23	15°♈34'58	-0°33'07
min. Earth dist.	-1419 Oct 20 j 21:37	15°♈34'50	18.45586 AU
direct	-1418 Jan 03 j 10:54	13°♈35'05	
evening set	-1418 Apr 04 j 22:48	16°♈42'24	
conjunction	-1418 Apr 21 j 14:46	17°♈40'18	-0°28'38
minimum elong	-1418 Apr 21 j 14:46	17°♈40'18	0°28'38
max. Earth dist.	-1418 Apr 21 j 10:56	17°♈39'44	20.42339 AU
morning rise	-1418 May 08 j 08:51	18°♈38'31	
retrograde	-1418 Aug 10 j 13:58	21°♈51'23	
opposition	-1418 Oct 25 j 06:31	19°♈50'07	-0°30'16
min. Earth dist.	-1418 Oct 25 j 10:40	19°♈49'40	18.39016 AU
direct	-1417 Jan 07 j 20:19	17°♈49'54	
evening set	-1417 Apr 09 j 15:19	20°♈58'25	
conjunction	-1417 Apr 26 j 08:10	21°♈56'38	-0°25'58
minimum elong	-1417 Apr 26 j 08:10	21°♈56'38	0°25'57
max. Earth dist.	-1417 Apr 26 j 02:45	21°♈55'51	20.35673 AU
morning rise	-1417 May 13 j 02:36	22°♈55'08	
retrograde	-1417 Aug 15 j 06:25	26°♈08'37	
opposition	-1417 Oct 29 j 17:04	24°♈07'15	-0°27'12
min. Earth dist.	-1417 Oct 29 j 22:21	24°♈06'42	18.32243 AU
direct	-1416 Jan 12 j 08:34	22°♈06'41	
evening set	-1416 Apr 13 j 09:00	25°♈16'27	
conjunction	-1416 Apr 30 j 02:23	26°♈14'59	-0°23'07
minimum elong	-1416 Apr 30 j 02:23	26°♈14'59	0°23'05
max. Earth dist.	-1416 Apr 29 j 17:47	26°♈13'44	20.28793 AU
morning rise	-1416 May 16 j 21:15	27°♈13'45	
	-1416 Jul 16 j 22:28	0°♉	
retrograde	-1416 Aug 18 j 21:31	0°♉27'52	
	-1416 Sep 21 j 05:01	30°℞♈	
opposition	-1416 Nov 02 j 04:39	28°♈26'24	-0°23'58
min. Earth dist.	-1416 Nov 02 j 12:54	28°♈25'31	18.25269 AU
direct	-1415 Jan 15 j 19:43	26°♈25'25	
evening set	-1415 Apr 18 j 03:19	29°♈36'26	
	-1415 Apr 24 j 21:45	0°♉	
conjunction	-1415 May 04 j 21:26	0°♉35'17	-0°20'06
minimum elong	-1415 May 04 j 21:26	0°♉35'17	0°20'06
max. Earth dist.	-1415 May 04 j 11:00	0°♉33'45	20.21730 AU
morning rise	-1415 May 21 j 16:35	1°♉34'20	
retrograde	-1415 Aug 23 j 15:12	4°♉49'03	
opposition	-1415 Nov 06 j 16:44	2°♉47'27	-0°20'33
min. Earth dist.	-1415 Nov 07 j 02:00	2°♉46'28	18.18114 AU
direct	-1414 Jan 20 j 09:36	0°♉46'03	
evening set	-1414 Apr 22 j 22:54	3°♉58'20	
conjunction	-1414 May 09 j 17:30	4°♉57'30	-0°16'58
minimum elong	-1414 May 09 j 17:30	4°♉57'30	0°16'57
max. Earth dist.	-1414 May 09 j 04:10	4°♉55'32	20.14498 AU
morning rise	-1414 May 26 j 12:53	5°♉56'49	
retrograde	-1414 Aug 28 j 07:43	9°♉12'08	
opposition	-1414 Nov 11 j 05:32	7°♉10'22	-0°17'00
min. Earth dist.	-1414 Nov 11 j 17:46	7°♉09'04	18.10832 AU
direct	-1413 Jan 24 j 22:44	5°♉08'31	
evening set	-1413 Apr 27 j 19:20	8°♉22'06	
conjunction	-1413 May 14 j 14:28	9°♉21'34	-0°13'42
minimum elong	-1413 May 14 j 14:28	9°♉21'34	0°13'42
behind sun begin	-1413 May 14 j 11:01	9°♉21'04	
behind sun end	-1413 May 14 j 17:54	9°♉22'04	
max. Earth dist.	-1413 May 13 j 23:09	9°♉19'18	20.07187 AU
morning rise	-1413 May 31 j 10:00	10°♉21'10	
retrograde	-1413 Sep 02 j 02:15	13°♉37'03	
opposition	-1413 Nov 15 j 18:57	11°♉35'07	-0°13'19
min. Earth dist.	-1413 Nov 16 j 08:01	11°♉33'43	18.03501 AU
direct	-1412 Jan 29 j 14:26	9°♉32'47	
evening set	-1412 May 01 j 16:35	12°♉47'40	
conjunction	-1412 May 18 j 12:02	13°♉47'27	-0°10'21
minimum elong	-1412 May 18 j 12:02	13°♉47'27	0°10'20
behind sun begin	-1412 May 18 j 06:44	13°♉46'41	
behind sun end	-1412 May 18 j 17:19	13°♉48'13	
max. Earth dist.	-1412 May 17 j 18:33	13°♉44'51	19.99852 AU
morning rise	-1412 Jun 04 j 07:32	14°♉47'18	
	-1412 Jun 07 j 23:15	15°♉	
retrograde	-1412 Sep 05 j 19:41	18°♉03'46	
opposition	-1412 Nov 19 j 09:14	16°♉01'40	-0°09'32
min. Earth dist.	-1412 Nov 20 j 00:51	15°♉59'59	17.96201 AU
	-1412 Dec 14 j 08:32	15°℞♉	
direct	-1411 Feb 02 j 05:16	13°♉58'52	
	-1411 Mar 23 j 04:48	15°♉	
evening set	-1411 May 06 j 14:42	17°♉15'04	
conjunction	-1411 May 23 j 10:25	18°♉15'08	-0°06'55
minimum elong	-1411 May 23 j 10:25	18°♉15'08	0°06'53
behind sun begin	-1411 May 23 j 04:08	18°♉14'13	
behind sun end	-1411 May 23 j 16:42	18°♉16'03	
max. Earth dist.	-1411 May 22 j 15:04	18°♉12'14	19.92607 AU
morning rise	-1411 Jun 09 j 05:57	19°♉15'14	
retrograde	-1411 Sep 10 j 15:09	22°♉32'17	
opposition	-1411 Nov 23 j 23:59	20°♉30'01	-0°05'40
min. Earth dist.	-1411 Nov 24 j 16:11	20°♉28'16	17.89027 AU
direct	-1410 Feb 06 j 22:52	18°♉26'45	
evening set	-1410 May 11 j 13:42	21°♉44'16	
conjunction	-1410 May 28 j 09:39	22°♉44'38	-0°03'25
minimum elong	-1410 May 28 j 09:39	22°♉44'38	0°03'24
behind sun begin	-1410 May 28 j 02:54	22°♉43'38	
behind sun end	-1410 May 28 j 16:24	22°♉45'37	
max. Earth dist.	-1410 May 27 j 12:49	22°♉41'30	19.85509 AU
morning rise	-1410 Jun 14 j 04:56	23°♉44'57	
retrograde	-1410 Sep 15 j 09:43	27°♉02'34	
opposition	-1410 Nov 28 j 15:45	25°♉00'10	-0°01'45
min. Earth dist.	-1410 Nov 29 j 10:07	24°♉58'11	17.82042 AU
direct	-1409 Feb 11 j 15:23	22°♉56'28	
asc. node	-1409 May 11 j 08:01	25°♉57'00	
evening set	-1409 May 16 j 13:35	26°♉15'19	
max. Earth dist.	-1409 Jun 01 j 10:47	27°♉12'31	19.78652 AU
conjunction	-1409 Jun 02 j 09:31	27°♉15'57	0°00'13
minimum elong	-1409 Jun 02 j 09:31	27°♉15'57	0°00'16
behind sun begin	-1409 Jun 02 j 02:47	27°♉14'57	
behind sun end	-1409 Jun 02 j 16:15	27°♉16'56	
morning rise	-1409 Jun 19 j 04:38	28°♉16'29	
	-1409 Jul 21 j 00:26	0°♊	
retrograde	-1409 Sep 20 j 06:11	1°♊34'40	
	-1409 Nov 22 j 13:49	30°℞♉	

Attention, astronomical year style is used: The year -1409 in astronomical counting style is the year 1410 BCE in historical counting style.

opposition	-1409 Dec 03 j 08:07	29°♉32'10	0°02'13	
min. Earth dist.	-1409 Dec 04 j 02:50	29°♉30'07	17.75334 AU	
direct	-1408 Feb 16 j 10:49	27°♉28'03		
	-1408 May 06 j 14:40	0°♊		
evening set	-1408 May 20 j 14:11	0°♊48'14		
max. Earth dist.	-1408 Jun 05 j 10:44	1°♊45'33	19.72092 AU	
conjunction	-1408 Jun 06 j 10:10	1°♊49'07	0°03'51	
minimum elong	-1408 Jun 06 j 10:10	1°♊49'07	0°03'52	
behind sun begin	-1408 Jun 06 j 03:27	1°♊48'07		
behind sun end	-1408 Jun 06 j 16:53	1°♊50'06		
morning rise	-1408 Jun 23 j 04:46	2°♊49'51		
retrograde	-1408 Sep 24 j 02:10	6°♊08'36		
opposition	-1408 Dec 07 j 01:30	4°♊06'02	0°06'11	
min. Earth dist.	-1408 Dec 07 j 21:52	4°♊03'48	17.68958 AU	
direct	-1407 Feb 20 j 04:54	2°♊01'33		
evening set	-1407 May 25 j 15:31	5°♊23'03		
max. Earth dist.	-1407 Jun 10 j 09:57	6°♊20'18	19.65907 AU	
conjunction	-1407 Jun 11 j 11:16	6°♊24'10	0°07'25	
minimum elong	-1407 Jun 11 j 11:16	6°♊24'10	0°07'26	
behind sun begin	-1407 Jun 11 j 05:06	6°♊23'15		
behind sun end	-1407 Jun 11 j 17:26	6°♊25'05		
morning rise	-1407 Jun 28 j 05:36	7°♊25'06		
retrograde	-1407 Sep 28 j 23:50	10°♊44'25		
opposition	-1407 Dec 11 j 19:35	8°♊41'48	0°10'09	
min. Earth dist.	-1407 Dec 12 j 16:16	8°♊39'33	17.62968 AU	
direct	-1406 Feb 25 j 02:16	6°♊37'01		
evening set	-1406 May 30 j 17:43	9°♊59'49		
max. Earth dist.	-1406 Jun 15 j 11:56	10°♊57'16	19.60103 AU	
conjunction	-1406 Jun 16 j 13:23	11°♊01'10	0°10'56	
minimum elong	-1406 Jun 16 j 13:23	11°♊01'10	0°10'58	
behind sun begin	-1406 Jun 16 j 08:20	11°♊00'24		
behind sun end	-1406 Jun 16 j 18:25	11°♊01'55		
morning rise	-1406 Jul 03 j 06:58	12°♊02'16		
retrograde	-1406 Oct 03 j 21:03	15°♊22'06		
opposition	-1406 Dec 16 j 14:30	13°♊19'31	0°14'05	
min. Earth dist.	-1406 Dec 17 j 12:38	13°♊17'06	17.57364 AU	
direct	-1405 Mar 01 j 22:20	11°♊14'28		
evening set	-1405 Jun 04 j 20:50	14°♊38'33		
conjunction	-1405 Jun 21 j 15:57	15°♊40'05	0°14'26	
minimum elong	-1405 Jun 21 j 15:57	15°♊40'05	0°14'27	
behind sun begin	-1405 Jun 21 j 13:09	15°♊39'39		
behind sun end	-1405 Jun 21 j 18:46	15°♊40'30		
max. Earth dist.	-1405 Jun 20 j 12:30	15°♊35'51	19.54699 AU	
morning rise	-1405 Jul 08 j 09:03	16°♊41'20		
retrograde	-1405 Oct 08 j 19:52	20°♊01'43		
opposition	-1405 Dec 21 j 10:20	17°♊59'09	0°17'57	
min. Earth dist.	-1405 Dec 22 j 09:00	17°♊56'40	17.52161 AU	
direct	-1404 Mar 05 j 21:48	15°♊53'50		
evening set	-1404 Jun 09 j 00:18	19°♊19'08		
conjunction	-1404 Jun 25 j 19:07	20°♊20'51	0°17'51	
minimum elong	-1404 Jun 25 j 19:07	20°♊20'51	0°17'54	
max. Earth dist.	-1404 Jun 24 j 15:57	20°♊16'39	19.49672 AU	
morning rise	-1404 Jul 12 j 11:17	21°♊22'13		
retrograde	-1404 Oct 12 j 18:32	24°♊43'05		
opposition	-1404 Dec 25 j 07:06	22°♊40'35	0°21'44	
min. Earth dist.	-1404 Dec 26 j 06:46	22°♊37'59	17.47322 AU	
direct	-1403 Mar 10 j 20:30	20°♊35'02		
evening set	-1403 Jun 14 j 04:41	24°♊01'29		
conjunction	-1403 Jun 30 j 22:46	25°♊03'20	0°21'11	
minimum elong	-1403 Jun 30 j 22:45	25°♊03'20	0°21'12	
max. Earth dist.	-1403 Jun 29 j 17:34	24°♊58'48	19.45017 AU	
morning rise	-1403 Jul 17 j 14:14	26°♊04'49		
retrograde	-1403 Oct 17 j 18:02	29°♊26'07		
opposition	-1403 Dec 30 j 04:30	27°♊23'37	0°25'23	
min. Earth dist.	-1403 Dec 31 j 04:56	27°♊20'57	17.42862 AU	
direct	-1402 Mar 15 j 21:08	25°♊17'50		
evening set	-1402 Jun 19 j 09:27	28°♊45'21		
max. Earth dist.	-1402 Jul 04 j 22:13	29°♊42'50	19.40729 AU	
conjunction	-1402 Jul 06 j 03:02	29°♊47'19	0°24'24	
minimum elong	-1402 Jul 06 j 03:02	29°♊47'19	0°24'25	
	-1402 Jul 09 j 12:25	0°♋		
morning rise	-1402 Jul 22 j 17:27	0°♋48'53		
retrograde	-1402 Oct 22 j 18:37	4°♋10'33		
opposition	-1401 Jan 04 j 02:50	2°♋08'05	0°28'53	
min. Earth dist.	-1401 Jan 05 j 03:46	2°♋05'22	17.38759 AU	
direct	-1401 Mar 20 j 22:09	0°♋02'05		
evening set	-1401 Jun 24 j 14:41	3°♋30'33		
max. Earth dist.	-1401 Jul 10 j 00:54	4°♋27'51	19.36818 AU	
conjunction	-1401 Jul 11 j 07:20	4°♋32'36	0°27'27	
minimum elong	-1401 Jul 11 j 07:20	4°♋32'36	0°27'28	
morning rise	-1401 Jul 27 j 20:50	5°♋34'13		
retrograde	-1401 Oct 27 j 18:29	8°♋56'12		
opposition	-1400 Jan 09 j 01:52	6°♋53'44	0°32'12	
min. Earth dist.	-1400 Jan 10 j 03:32	6°♋50'56	17.35065 AU	
direct	-1400 Mar 24 j 23:08	4°♋47'30		
evening set	-1400 Jun 28 j 20:01	8°♋16'49		
max. Earth dist.	-1400 Jul 14 j 06:13	9°♋14'17	19.33334 AU	
conjunction	-1400 Jul 15 j 11:57	9°♋18'56	0°30'19	
minimum elong	-1400 Jul 15 j 11:57	9°♋18'56	0°30'20	
morning rise	-1400 Aug 01 j 00:19	10°♋20'34		
retrograde	-1400 Oct 31 j 20:31	13°♋42'48		
opposition	-1399 Jan 13 j 01:26	11°♋40'21	0°35'18	
min. Earth dist.	-1399 Jan 14 j 02:52	11°♋37'33	17.31804 AU	
direct	-1399 Mar 30 j 01:55	9°♋33'54		
evening set	-1399 Jul 04 j 01:33	13°♋03'56		
max. Earth dist.	-1399 Jul 19 j 09:58	14°♋01'17	19.30310 AU	
conjunction	-1399 Jul 20 j 16:29	14°♋06'05	0°32'59	
minimum elong	-1399 Jul 20 j 16:29	14°♋06'05	0°33'01	
morning rise	-1399 Aug 06 j 03:50	15°♋07'44		
retrograde	-1399 Nov 05 j 19:56	18°♋30'09		