Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11899 May 14 j 22:30	26°♒59'12	0°38'23
minimum elong	-11899 May 14 j 20:55	26°♒56'28	0°37'58
	-11899 May 19 j 07:07	0°♓	
	-11899 Jun 30 j 14:51	0°♈	
morning rise	-11899 Jul 04 j 07:17	2°♈40'28	
	-11899 Aug 10 j 06:02	0°♉	
	-11899 Sep 18 j 18:15	0°♊	
	-11899 Oct 27 j 21:55	0°♋	
	-11899 Dec 06 j 15:42	0°♌	
	-11898 Jan 17 j 05:51	0°♍	
desc. node	-11898 Jan 28 j 14:49	7°♍48'53	
	-11898 Mar 04 j 00:03	0°♎	
	-11898 May 04 j 04:41	0°♏	
retrograde	-11898 Jun 02 j 06:55	5°♏02'08	
	-11898 Jun 29 j 08:10	30°℞♎	
min. Earth dist.	-11898 Jul 07 j 01:09	27°♎06'37	0.60586 AU
opposition	-11898 Jul 11 j 22:19	25°♎10'18	-5°23'18
greatest brilliancy	-11898 Jul 11 j 01:21	25°♎31'09	-1.6m
direct	-11898 Aug 18 j 06:15	16°♎28'36	
	-11898 Oct 10 j 18:20	0°♏	
	-11898 Dec 08 j 23:27	0°♐	
asc. node	-11897 Jan 27 j 23:21	29°♐29'52	
	-11897 Jan 28 j 18:58	0°♑	
	-11897 Mar 17 j 00:52	0°♒	
	-11897 Apr 30 j 11:41	0°♓	
evening set	-11897 May 10 j 05:00	6°♓48'03	
max. Earth dist.	-11897 May 26 j 17:05	18°♓32'24	2.46744 AU
	-11897 Jun 11 j 12:00	0°♈	
conjunction	-11897 Jul 03 j 11:08	16°♈17'13	1°12'33
minimum elong	-11897 Jul 03 j 10:18	16°♈15'40	1°12'42
	-11897 Jul 21 j 14:17	0°♉	
	-11897 Aug 29 j 11:23	0°♊	
morning rise	-11897 Aug 30 j 18:42	1°♊00'59	
	-11897 Oct 06 j 23:21	0°♋	
	-11897 Nov 14 j 23:31	0°♌	
desc. node	-11897 Dec 16 j 07:25	23°♌22'38	
	-11897 Dec 25 j 09:37	0°♍	
	-11896 Feb 06 j 05:55	0°♎	
	-11896 Mar 24 j 02:29	0°♏	
	-11896 May 20 j 03:42	0°♐	
retrograde	-11896 Jul 07 j 13:19	11°♐50'12	
min. Earth dist.	-11896 Aug 15 j 06:47	2°♐28'54	0.66025 AU
opposition	-11896 Aug 16 j 09:38	2°♐01'48	-4°10'52
greatest brilliancy	-11896 Aug 16 j 06:26	2°♐05'01	-1.4m
	-11896 Aug 21 j 11:37	30°℞♏	
direct	-11896 Sep 24 j 23:24	22°♏28'27	
	-11896 Nov 02 j 07:33	0°♐	
asc. node	-11896 Dec 15 j 05:18	19°♐01'47	
	-11895 Jan 04 j 14:26	0°♑	
	-11895 Feb 23 j 15:50	0°♒	
	-11895 Apr 09 j 23:37	0°♓	
	-11895 May 22 j 04:01	0°♈	
	-11895 Jul 01 j 03:30	0°♉	
evening set	-11895 Jul 03 j 12:50	1°♉49'54	
	-11895 Aug 08 j 19:27	0°♊	
conjunction	-11895 Sep 02 j 20:34	19°♊38'21	0°43'21
minimum elong	-11895 Sep 02 j 23:50	19°♊44'46	0°43'58
	-11895 Sep 16 j 02:10	0°♋	
max. Earth dist.	-11895 Sep 18 j 05:11	1°♋39'36	2.38458 AU
	-11895 Oct 24 j 21:25	0°♌	
desc. node	-11895 Nov 02 j 00:22	6°♌10'18	
morning rise	-11895 Nov 06 j 12:05	9°♌33'41	
	-11895 Dec 04 j 00:50	0°♍	
	-11894 Jan 15 j 05:04	0°♎	
	-11894 Mar 01 j 00:34	0°♏	
	-11894 Apr 18 j 11:15	0°♐	
	-11894 Jun 13 j 20:58	0°♑	
retrograde	-11894 Aug 12 j 03:23	16°♑09'15	
opposition	-11894 Sep 20 j 01:51	6°♑54'31	-1°45'19
greatest brilliancy	-11894 Sep 20 j 06:21	6°♑50'02	-1.4m
min. Earth dist.	-11894 Sep 22 j 16:45	5°♑51'49	0.65297 AU
	-11894 Oct 09 j 07:38	30°℞♐	
direct	-11894 Oct 30 j 18:13	26°♐57'05	
asc. node	-11894 Nov 02 j 11:04	26°♐59'52	
	-11894 Nov 22 j 21:48	0°♑	
	-11893 Jan 30 j 00:39	0°♒	
	-11893 Mar 19 j 12:04	0°♓	
	-11893 May 01 j 17:02	0°♈	
	-11893 Jun 11 j 01:38	0°♉	
	-11893 Jul 19 j 21:50	0°♊	
	-11893 Aug 27 j 07:51	0°♋	
evening set	-11893 Sep 06 j 16:39	8°♋03'07	
desc. node	-11893 Sep 19 j 20:54	18°♋13'35	
	-11893 Oct 05 j 06:37	0°♌	
conjunction	-11893 Nov 06 j 15:42	24°♌13'15	-0°34'14
minimum elong	-11893 Nov 06 j 13:20	24°♌08'54	0°33'46
	-11893 Nov 14 j 13:02	0°♍	
max. Earth dist.	-11893 Dec 17 j 11:11	23°♍33'22	2.49386 AU
	-11893 Dec 26 j 16:49	0°♎	
morning rise	-11892 Jan 04 j 04:39	5°♎51'59	
	-11892 Feb 09 j 00:40	0°♏	
	-11892 Mar 26 j 15:08	0°♐	
	-11892 May 14 j 21:46	0°♑	
	-11892 Jul 08 j 14:48	0°♒	
asc. node	-11892 Sep 19 j 13:18	22°♒42'46	
retrograde	-11892 Sep 20 j 01:51	22°♒42'53	
opposition	-11892 Oct 27 j 00:27	14°♒27'56	1°41'13
greatest brilliancy	-11892 Oct 27 j 08:27	14°♒20'18	-1.7m
min. Earth dist.	-11892 Nov 02 j 03:00	12°♒08'13	0.58562 AU
direct	-11892 Dec 06 j 06:42	4°♒44'41	
	-11891 Feb 18 j 04:23	0°♓	
	-11891 Apr 06 j 23:45	0°♈	
	-11891 May 18 j 23:50	0°♉	
	-11891 Jun 27 j 17:05	0°♊	
	-11891 Aug 05 j 18:46	0°♋	
desc. node	-11891 Aug 06 j 21:27	0°♋51'06	
	-11891 Sep 14 j 07:27	0°♌	
	-11891 Oct 25 j 02:21	0°♍	
evening set	-11891 Nov 04 j 01:34	7°♍08'51	
	-11891 Dec 06 j 15:38	0°♎	
conjunction	-11891 Dec 28 j 09:08	14°♎49'20	-1°13'20
minimum elong	-11891 Dec 28 j 08:12	14°♎47'44	1°13'29
	-11890 Jan 20 j 02:24	0°♏	
max. Earth dist.	-11890 Jan 20 j 22:25	0°♏33'06	2.59837 AU
morning rise	-11890 Feb 18 j 00:27	18°♏55'08	
	-11890 Mar 07 j 05:32	0°♐	
	-11890 Apr 23 j 15:55	0°♑	
	-11890 Jun 11 j 08:15	0°♒	
	-11890 Aug 01 j 12:26	0°♓	
asc. node	-11890 Aug 07 j 10:15	3°♓16'38	
	-11890 Oct 02 j 14:28	0°♈	
retrograde	-11890 Nov 11 j 01:03	8°♈04'52	
opposition	-11890 Dec 14 j 16:59	1°♈29'04	5°49'05
greatest brilliancy	-11890 Dec 16 j 05:06	0°♈58'49	-2.3m
	-11890 Dec 19 j 03:16	30°℞♓	
min. Earth dist.	-11890 Dec 22 j 17:58	28°♓48'35	0.47220 AU

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

direct	-11889 Jan 20 j 17:04	23°♓26'30	
	-11889 Feb 22 j 09:32	0°♈	
	-11889 Apr 19 j 14:45	0°♉	
	-11889 Jun 02 j 08:59	0°♊	
desc. node	-11889 Jun 25 j 02:36	16°♊25'38	
	-11889 Jul 13 j 16:23	0°♋	
	-11889 Aug 23 j 19:45	0°♌	
	-11889 Oct 04 j 20:39	0°♍	
	-11889 Nov 17 j 08:28	0°♎	
evening set	-11889 Dec 21 j 21:18	23°♎05'01	
	-11888 Jan 01 j 09:33	0°♏	
conjunction	-11888 Feb 09 j 17:06	25°♏31'23	-1°06'23
minimum elong	-11888 Feb 09 j 18:28	25°♏33'34	1°06'55
	-11888 Feb 16 j 16:10	0°♐	
max. Earth dist.	-11888 Feb 16 j 22:03	0°♐09'26	2.65532 AU
morning rise	-11888 Mar 28 j 15:49	26°♐14'08	
	-11888 Apr 03 j 13:16	0°♑	
	-11888 May 20 j 10:22	0°♒	
asc. node	-11888 Jun 24 j 02:51	22°♒18'36	
	-11888 Jul 06 j 01:15	0°♓	
	-11888 Aug 21 j 17:40	0°♈	
	-11888 Oct 08 j 18:55	0°♉	
	-11888 Dec 02 j 14:01	0°♊	
retrograde	-11887 Jan 22 j 21:16	13°♊43'06	
opposition	-11887 Feb 22 j 16:48	8°♊33'41	5°36'39
greatest brilliancy	-11887 Feb 23 j 02:10	8°♊27'25	-2.8m
min. Earth dist.	-11887 Feb 23 j 15:17	8°♊18'38	0.38528 AU
direct	-11887 Mar 25 j 10:50	3°♊20'49	
desc. node	-11887 May 12 j 09:11	15°♊58'05	
	-11887 Jun 08 j 07:48	0°♋	
	-11887 Jul 27 j 02:49	0°♌	
	-11887 Sep 11 j 00:44	0°♍	
	-11887 Oct 26 j 19:37	0°♎	
	-11887 Dec 12 j 05:30	0°♏	
	-11886 Jan 28 j 04:40	0°♐	
evening set	-11886 Jan 31 j 00:54	1°♐48'43	
max. Earth dist.	-11886 Mar 12 j 08:49	27°♐34'28	2.65921 AU
	-11886 Mar 16 j 03:31	0°♑	
conjunction	-11886 Mar 20 j 03:22	2°♑33'58	-0°30'53
minimum elong	-11886 Mar 20 j 04:32	2°♑35'51	0°31'34
	-11886 May 01 j 09:32	0°♒	
morning rise	-11886 May 06 j 01:45	3°♒04'24	
asc. node	-11886 May 11 j 18:12	6°♒49'18	
	-11886 Jun 15 j 10:58	0°♓	
	-11886 Jul 29 j 04:53	0°♈	
	-11886 Sep 09 j 20:53	0°♉	
	-11886 Oct 21 j 23:38	0°♊	
	-11886 Dec 03 j 15:15	0°♋	
	-11885 Jan 18 j 18:07	0°♌	
desc. node	-11885 Mar 30 j 11:37	26°♌46'43	
retrograde	-11885 Apr 01 j 09:46	26°♌48'16	
min. Earth dist.	-11885 Apr 29 j 09:02	21°♌38'51	0.44932 AU
greatest brilliancy	-11885 May 06 j 11:52	19°♌16'57	-2.5m
opposition	-11885 May 07 j 06:44	19°♌01'11	-2°29'32
direct	-11885 Jun 08 j 17:31	12°♌37'40	
	-11885 Aug 07 j 21:33	0°♍	
	-11885 Oct 02 j 08:18	0°♎	
	-11885 Nov 21 j 10:24	0°♏	
	-11884 Jan 09 j 02:03	0°♐	
	-11884 Feb 25 j 16:48	0°♑	
evening set	-11884 Mar 10 j 12:23	8°♑51'37	
asc. node	-11884 Mar 28 j 13:09	20°♑33'24	
max. Earth dist.	-11884 Apr 06 j 11:51	26°♑25'20	2.61044 AU
	-11884 Apr 11 j 22:00	0°♒	
conjunction	-11884 Apr 28 j 04:42	10°♒50'29	0°18'49
minimum elong	-11884 Apr 28 j 03:55	10°♒49'10	0°18'16
	-11884 May 26 j 08:41	0°♓	
morning rise	-11884 Jun 15 j 20:26	14°♓16'37	
	-11884 Jul 07 j 22:50	0°♈	
	-11884 Aug 17 j 22:49	0°♉	
	-11884 Sep 26 j 21:13	0°♊	
	-11884 Nov 05 j 12:00	0°♋	
	-11884 Dec 15 j 20:16	0°♌	
	-11883 Jan 27 j 13:56	0°♍	
desc. node	-11883 Feb 14 j 09:21	11°♍34'01	
	-11883 Mar 18 j 03:01	0°♎	
retrograde	-11883 May 17 j 21:39	18°♎58'18	
min. Earth dist.	-11883 Jun 19 j 18:45	11°♎45'36	0.56886 AU
greatest brilliancy	-11883 Jun 24 j 21:38	9°♎46'22	-1.8m
opposition	-11883 Jun 26 j 01:03	9°♎19'42	-5°20'54
direct	-11883 Aug 01 j 04:45	1°♎07'31	
	-11883 Oct 25 j 09:01	0°♏	
	-11883 Dec 18 j 00:56	0°♐	
	-11882 Feb 05 j 11:02	0°♑	
asc. node	-11882 Feb 13 j 13:38	5°♑05'11	
	-11882 Mar 24 j 05:58	0°♒	
evening set	-11882 Apr 21 j 20:16	19°♒09'11	
	-11882 May 07 j 14:41	0°♓	
max. Earth dist.	-11882 May 09 j 05:40	1°♓07'46	2.51424 AU
conjunction	-11882 Jun 12 j 20:03	25°♓43'13	1°03'53
minimum elong	-11882 Jun 12 j 18:10	25°♓39'48	1°03'49
	-11882 Jun 18 j 17:11	0°♈	
	-11882 Jul 28 j 23:38	0°♉	
morning rise	-11882 Aug 06 j 10:32	6°♉25'56	
	-11882 Sep 06 j 01:30	0°♊	
	-11882 Oct 14 j 17:55	0°♋	
	-11882 Nov 22 j 22:30	0°♌	
desc. node	-11881 Jan 02 j 04:07	29°♌40'32	
	-11881 Jan 02 j 14:58	0°♍	
	-11881 Feb 15 j 02:00	0°♎	
	-11881 Apr 05 j 00:01	0°♏	
retrograde	-11881 Jun 24 j 19:55	28°♏17'13	
min. Earth dist.	-11881 Aug 01 j 03:26	19°♏25'45	0.64629 AU
opposition	-11881 Aug 03 j 18:03	18°♏22'39	-4°49'24
greatest brilliancy	-11881 Aug 03 j 08:27	18°♏32'20	-1.4m
direct	-11881 Sep 11 j 13:58	9°♏05'57	
	-11881 Nov 20 j 14:55	0°♐	
asc. node	-11880 Jan 01 j 18:41	22°♐20'00	
	-11880 Jan 15 j 00:35	0°♑	
	-11880 Mar 03 j 14:33	0°♒	
	-11880 Apr 17 j 11:31	0°♓	
	-11880 May 29 j 13:10	0°♈	
evening set	-11880 Jun 10 j 11:13	8°♈48'14	
	-11880 Jul 08 j 12:59	0°♉	
max. Earth dist.	-11880 Jul 10 j 15:16	1°♉36'15	2.39866 AU
conjunction	-11880 Aug 08 j 04:09	23°♉41'07	1°04'43
minimum elong	-11880 Aug 08 j 06:43	23°♉46'08	1°05'15
	-11880 Aug 16 j 06:15	0°♊	
	-11880 Sep 23 j 14:08	0°♋	
morning rise	-11880 Oct 10 j 19:25	13°♋23'22	
	-11880 Nov 01 j 10:10	0°♌	
desc. node	-11880 Nov 18 j 20:09	13°♌09'47	
	-11880 Dec 11 j 14:30	0°♍	
	-11879 Jan 22 j 21:43	0°♎	
	-11879 Mar 09 j 04:17	0°♏	
	-11879 Apr 28 j 06:27	0°♐	
	-11879 Jul 06 j 05:37	0°♑	
retrograde	-11879 Jul 29 j 02:23	2°♑59'00	
	-11879 Aug 19 j 05:45	30°℞♐	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

opposition	-11879 Sep 06 j 12:27	23°♐28'03	-2°49'00
greatest brilliancy	-11879 Sep 06 j 15:49	23°♐24'40	-1.4m
min. Earth dist.	-11879 Sep 07 j 16:14	23°♐00'08	0.66335 AU
direct	-11879 Oct 16 j 22:07	13°♐36'35	
asc. node	-11879 Nov 19 j 01:24	19°♐27'13	
	-11879 Dec 15 j 17:59	0°♑	
	-11878 Feb 09 j 06:43	0°♒	
	-11878 Mar 28 j 00:50	0°♓	
	-11878 May 09 j 16:45	0°♈	
	-11878 Jun 18 j 20:03	0°♉	
	-11878 Jul 27 j 13:18	0°♊	
evening set	-11878 Aug 12 j 00:20	12°♊06'42	
	-11878 Sep 03 j 20:43	0°♋	
desc. node	-11878 Oct 06 j 14:19	25°♋20'22	
	-11878 Oct 12 j 16:47	0°♌	
conjunction	-11878 Oct 13 j 13:21	0°♌39'06	-0°05'18
minimum elong	-11878 Oct 13 j 12:55	0°♌38'18	0°04'41
behind sun begin	-11878 Oct 12 j 11:18	29°♋49'33	
behind sun end	-11878 Oct 14 j 14:32	1°♌27'00	
	-11878 Nov 21 j 20:44	0°♍	
max. Earth dist.	-11878 Nov 26 j 20:19	3°♍37'54	2.44519 AU
morning rise	-11878 Dec 14 j 06:40	16°♍09'55	
	-11877 Jan 02 j 22:58	0°♎	
	-11877 Feb 16 j 08:41	0°♏	
	-11877 Apr 04 j 09:42	0°♐	
	-11877 May 25 j 05:05	0°♑	
	-11877 Jul 26 j 20:21	0°♒	
retrograde	-11877 Sep 04 j 15:41	8°♒04'44	
asc. node	-11877 Oct 07 j 04:45	1°♒24'56	
	-11877 Oct 10 j 22:09	30°℞♑	
opposition	-11877 Oct 12 j 12:38	29°♑22'37	0°13'54
greatest brilliancy	-11877 Oct 12 j 13:32	29°♑21'45	-1.6m
min. Earth dist.	-11877 Oct 17 j 07:33	27°♑30'29	0.61896 AU
direct	-11877 Nov 22 j 04:37	19°♑27'21	
	-11876 Jan 06 j 04:01	0°♒	
	-11876 Mar 02 j 15:04	0°♓	
	-11876 Apr 16 j 17:18	0°♈	
	-11876 May 27 j 19:40	0°♉	
	-11876 Jul 06 j 01:34	0°♊	
	-11876 Aug 13 j 18:42	0°♋	
desc. node	-11876 Aug 23 j 15:01	7°♋35'44	
	-11876 Sep 21 j 23:46	0°♌	
evening set	-11876 Oct 13 j 10:22	16°♌01'53	
	-11876 Nov 01 j 11:51	0°♍	
conjunction	-11876 Dec 09 j 08:14	26°♍53'48	-1°04'32
minimum elong	-11876 Dec 09 j 06:07	26°♍50'07	1°04'27
	-11876 Dec 13 j 19:32	0°♎	
max. Earth dist.	-11875 Jan 08 j 23:08	17°♎51'38	2.56228 AU
	-11875 Jan 27 j 03:22	0°♏	
morning rise	-11875 Feb 01 j 07:26	3°♏24'58	
	-11875 Mar 14 j 08:16	0°♐	
	-11875 May 01 j 06:01	0°♑	
	-11875 Jun 20 j 08:13	0°♒	
	-11875 Aug 15 j 07:27	0°♓	
asc. node	-11875 Aug 24 j 03:31	4°♓02'55	
retrograde	-11875 Oct 19 j 16:06	18°♓56'14	
opposition	-11875 Nov 23 j 18:53	11°♓35'50	4°13'32
greatest brilliancy	-11875 Nov 24 j 20:01	11°♓13'17	-2.0m
min. Earth dist.	-11875 Dec 01 j 11:36	8°♓50'49	0.52002 AU
direct	-11874 Jan 01 j 13:02	2°♓38'47	
	-11874 Mar 17 j 20:13	0°♈	
	-11874 May 02 j 15:45	0°♉	
	-11874 Jun 12 j 23:19	0°♊	
desc. node	-11874 Jul 11 j 18:50	21°♊33'25	
	-11874 Jul 23 j 00:43	0°♋	
	-11874 Sep 01 j 07:28	0°♌	
	-11874 Oct 12 j 16:54	0°♍	
	-11874 Nov 24 j 17:06	0°♎	
evening set	-11874 Dec 04 j 08:52	6°♎34'18	
	-11873 Jan 08 j 10:34	0°♏	
conjunction	-11873 Jan 24 j 14:52	10°♏36'25	-1°13'21
minimum elong	-11873 Jan 24 j 15:36	10°♏37'38	1°13'46
max. Earth dist.	-11873 Feb 06 j 23:33	19°♏17'26	2.63912 AU
	-11873 Feb 23 j 14:00	0°♐	
morning rise	-11873 Mar 14 j 16:20	12°♐14'09	
	-11873 Apr 11 j 13:56	0°♑	
	-11873 May 28 j 23:01	0°♒	
asc. node	-11873 Jul 11 j 21:27	27°♒36'30	
	-11873 Jul 15 j 17:37	0°♓	
	-11873 Sep 03 j 00:02	0°♈	
	-11873 Oct 28 j 17:33	0°♉	
retrograde	-11873 Dec 23 j 21:59	15°♉20'46	
opposition	-11872 Jan 24 j 03:42	9°♉56'14	7°01'47
greatest brilliancy	-11872 Jan 25 j 12:23	9°♉32'44	-2.7m
min. Earth dist.	-11872 Jan 29 j 12:59	8°♉23'36	0.40607 AU
direct	-11872 Feb 26 j 05:08	3°♉49'49	
	-11872 May 08 j 11:09	0°♊	
desc. node	-11872 May 28 j 23:55	12°♊34'54	
	-11872 Jun 24 j 13:04	0°♋	
	-11872 Aug 07 j 11:18	0°♌	
	-11872 Sep 20 j 05:21	0°♍	
	-11872 Nov 03 j 19:36	0°♎	
	-11872 Dec 19 j 13:04	0°♏	
evening set	-11871 Jan 15 j 11:39	17°♏23'18	
	-11871 Feb 04 j 03:37	0°♐	
max. Earth dist.	-11871 Mar 03 j 00:36	17°♐11'42	2.66394 AU
conjunction	-11871 Mar 04 j 23:36	18°♐26'53	-0°47'06
minimum elong	-11871 Mar 05 j 01:07	18°♐29'18	0°47'44
	-11871 Mar 23 j 00:12	0°♑	
morning rise	-11871 Apr 21 j 00:36	18°♑41'46	
	-11871 May 08 j 10:16	0°♒	
asc. node	-11871 May 28 j 13:19	13°♒11'00	
	-11871 Jun 22 j 22:44	0°♓	
	-11871 Aug 06 j 12:21	0°♈	
	-11871 Sep 19 j 11:00	0°♉	
	-11871 Nov 02 j 13:58	0°♊	
	-11871 Dec 19 j 03:45	0°♋	
	-11870 Feb 27 j 11:07	0°♌	
retrograde	-11870 Mar 08 j 19:13	0°♌35'58	
	-11870 Mar 18 j 03:47	30°℞♋	
min. Earth dist.	-11870 Apr 05 j 07:33	25°♋55'16	0.40766 AU
opposition	-11870 Apr 11 j 09:30	24°♋06'03	0°21'31
greatest brilliancy	-11870 Apr 11 j 07:53	24°♋07'15	-2.8m
desc. node	-11870 Apr 16 j 04:32	22°♋41'54	
direct	-11870 May 12 j 07:20	18°♋31'45	
	-11870 Jun 27 j 21:18	0°♌	
	-11870 Aug 23 j 23:09	0°♍	
	-11870 Oct 12 j 10:20	0°♎	
	-11870 Nov 29 j 13:45	0°♏	
	-11869 Jan 16 j 09:13	0°♐	
evening set	-11869 Feb 24 j 02:07	24°♐31'13	
	-11869 Mar 04 j 15:48	0°♑	
max. Earth dist.	-11869 Mar 27 j 21:38	14°♑59'19	2.63557 AU
conjunction	-11869 Apr 13 j 06:25	25°♑40'27	-0°01'16
minimum elong	-11869 Apr 13 j 06:27	25°♑40'31	0°01'54
behind sun begin	-11869 Apr 12 j 10:40	25°♑08'02	
behind sun end	-11869 Apr 14 j 02:15	26°♑13'00	
asc. node	-11869 Apr 15 j 06:41	26°♑59'44	
	-11869 Apr 19 j 20:06	0°♒	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

morning rise	-11869 May 30 j 20:41	27°♒32'18	
	-11869 Jun 03 j 11:02	0°♓	
	-11869 Jul 16 j 09:50	0°♈	
	-11869 Aug 26 j 21:45	0°♉	
	-11869 Oct 06 j 10:43	0°♊	
	-11869 Nov 15 j 18:56	0°♋	
	-11869 Dec 27 j 04:46	0°♌	
	-11868 Feb 10 j 08:52	0°♍	
desc. node	-11868 Mar 03 j 04:51	12°♍30'14	
	-11868 Apr 18 j 23:49	0°♎	
retrograde	-11868 May 01 j 02:36	0°♎59'44	
	-11868 May 12 j 19:13	30°℞♍	
min. Earth dist.	-11868 May 31 j 22:55	24°♍34'58	0.52444 AU
greatest brilliancy	-11868 Jun 07 j 02:17	22°♍17'35	-2.0m
opposition	-11868 Jun 08 j 08:50	21°♍48'57	-4°50'06
direct	-11868 Jul 13 j 04:21	14°♍13'25	
	-11868 Sep 08 j 22:30	0°♎	
	-11868 Nov 05 j 09:09	0°♏	
	-11868 Dec 26 j 07:44	0°♐	
	-11867 Feb 12 j 20:13	0°♑	
asc. node	-11867 Mar 02 j 05:28	11°♑03'38	
	-11867 Mar 31 j 08:12	0°♒	
evening set	-11867 Apr 04 j 16:37	2°♒52'46	
max. Earth dist.	-11867 Apr 25 j 01:21	16°♒32'01	2.55684 AU
	-11867 May 14 j 16:43	0°♓	
conjunction	-11867 May 25 j 00:02	7°♓11'09	0°48'46
minimum elong	-11867 May 24 j 22:09	7°♓07'50	0°48'26
	-11867 Jun 25 j 22:48	0°♈	
morning rise	-11867 Jul 15 j 15:47	14°♈27'38	
	-11867 Aug 05 j 10:39	0°♉	
	-11867 Sep 13 j 18:43	0°♊	
	-11867 Oct 22 j 17:25	0°♋	
	-11867 Dec 01 j 04:55	0°♌	
	-11866 Jan 11 j 08:25	0°♍	
desc. node	-11866 Jan 18 j 23:19	5°♍20'51	
	-11866 Feb 24 j 22:18	0°♎	
	-11866 Apr 19 j 12:35	0°♏	
retrograde	-11866 Jun 10 j 16:53	14°♏03'40	
min. Earth dist.	-11866 Jul 16 j 10:17	5°♏46'50	0.62293 AU
opposition	-11866 Jul 20 j 12:29	4°♏08'39	-5°15'27
greatest brilliancy	-11866 Jul 19 j 19:34	4°♏25'34	-1.5m
	-11866 Jul 31 j 12:24	30°℞♎	
direct	-11866 Aug 27 j 10:18	25°♎13'07	
	-11866 Sep 26 j 02:50	0°♏	
	-11866 Dec 02 j 10:49	0°♐	
asc. node	-11865 Jan 18 j 08:50	26°♐53'24	
	-11865 Jan 23 j 12:29	0°♑	
	-11865 Mar 12 j 04:52	0°♒	
	-11865 Apr 25 j 19:33	0°♓	
evening set	-11865 May 21 j 07:49	18°♓00'12	
	-11865 Jun 06 j 20:52	0°♈	
max. Earth dist.	-11865 Jun 08 j 01:38	0°♈52'43	2.44145 AU
conjunction	-11865 Jul 16 j 01:20	29°♈19'35	1°13'14
minimum elong	-11865 Jul 16 j 01:38	29°♈20'09	1°13'32
	-11865 Jul 16 j 22:31	0°♉	
	-11865 Aug 24 j 18:13	0°♊	
morning rise	-11865 Sep 14 j 12:44	16°♊13'36	
	-11865 Oct 02 j 04:12	0°♋	
	-11865 Nov 10 j 01:51	0°♌	
desc. node	-11865 Dec 06 j 17:25	20°♌00'18	
	-11865 Dec 20 j 08:26	0°♍	
	-11864 Jan 31 j 21:27	0°♎	
	-11864 Mar 17 j 22:50	0°♏	
	-11864 May 10 j 04:38	0°♐	
retrograde	-11864 Jul 15 j 10:16	19°♐53'38	
opposition	-11864 Aug 24 j 04:02	10°♐10'14	-3°43'31
greatest brilliancy	-11864 Aug 24 j 03:43	10°♐10'33	-1.4m
min. Earth dist.	-11864 Aug 23 j 20:24	10°♐17'55	0.66406 AU
direct	-11864 Oct 03 j 02:07	0°♐29'19	
asc. node	-11864 Dec 05 j 14:37	18°♐24'35	
	-11864 Dec 28 j 17:49	0°♑	
	-11863 Feb 18 j 05:46	0°♒	
	-11863 Apr 05 j 00:23	0°♓	
	-11863 May 17 j 08:59	0°♈	
	-11863 Jun 26 j 10:00	0°♉	
evening set	-11863 Jul 17 j 09:23	16°♉10'50	
	-11863 Aug 04 j 02:33	0°♊	
	-11863 Sep 11 j 09:16	0°♋	
conjunction	-11863 Sep 17 j 15:34	4°♋53'18	0°26'52
minimum elong	-11863 Sep 17 j 17:57	4°♋57'58	0°27'30
	-11863 Oct 20 j 04:10	0°♌	
desc. node	-11863 Oct 23 j 11:09	2°♌30'24	
max. Earth dist.	-11863 Oct 23 j 13:11	2°♌34'16	2.39994 AU
morning rise	-11863 Nov 20 j 18:58	23°♌45'21	
	-11863 Nov 29 j 06:49	0°♍	
	-11862 Jan 10 j 08:47	0°♎	
	-11862 Feb 23 j 22:37	0°♏	
	-11862 Apr 12 j 16:33	0°♐	
	-11862 Jun 05 j 04:32	0°♑	
retrograde	-11862 Aug 20 j 11:24	24°♑16'24	
opposition	-11862 Sep 28 j 01:57	15°♑11'59	-1°04'11
greatest brilliancy	-11862 Sep 28 j 05:33	15°♑08'24	-1.5m
min. Earth dist.	-11862 Oct 01 j 11:21	13°♑51'18	0.64344 AU
asc. node	-11862 Oct 23 j 19:39	6°♑43'48	
direct	-11862 Nov 07 j 20:01	5°♑13'26	
	-11861 Jan 22 j 10:34	0°♒	
	-11861 Mar 13 j 17:19	0°♓	
	-11861 Apr 26 j 11:29	0°♈	
	-11861 Jun 06 j 01:28	0°♉	
	-11861 Jul 15 j 00:37	0°♊	
	-11861 Aug 22 j 12:32	0°♋	
desc. node	-11861 Sep 10 j 07:58	14°♋33'21	
evening set	-11861 Sep 20 j 19:09	22°♋35'16	
	-11861 Sep 30 j 12:43	0°♌	
	-11861 Nov 09 j 20:19	0°♍	
conjunction	-11861 Nov 19 j 10:06	6°♍56'22	-0°47'35
minimum elong	-11861 Nov 19 j 07:26	6°♍51'34	0°47'16
	-11861 Dec 22 j 00:23	0°♎	
max. Earth dist.	-11861 Dec 26 j 21:35	3°♎22'53	2.51970 AU
morning rise	-11860 Jan 15 j 05:32	16°♎35'11	
	-11860 Feb 04 j 06:59	0°♏	
	-11860 Mar 21 j 16:08	0°♐	
	-11860 May 09 j 07:16	0°♑	
	-11860 Jun 30 j 17:24	0°♒	
asc. node	-11860 Sep 09 j 20:18	29°♒41'26	
	-11860 Sep 11 j 07:18	0°♓	
retrograde	-11860 Sep 30 j 04:33	2°♓02'47	
	-11860 Oct 17 j 22:06	30°℞♒	
opposition	-11860 Nov 05 j 13:10	24°♒05'09	2°35'09
greatest brilliancy	-11860 Nov 06 j 02:41	23°♒52'28	-1.8m
min. Earth dist.	-11860 Nov 12 j 07:06	21°♒33'32	0.56423 AU
direct	-11860 Dec 15 j 10:07	14°♒33'46	
	-11859 Feb 07 j 23:25	0°♓	
	-11859 Mar 31 j 05:50	0°♈	
	-11859 May 13 j 03:50	0°♉	
	-11859 Jun 22 j 07:22	0°♊	
desc. node	-11859 Jul 28 j 10:21	27°♊33'06	
	-11859 Jul 31 j 15:23	0°♋	
	-11859 Sep 09 j 08:40	0°♌	
	-11859 Oct 20 j 07:13	0°♍	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

evening set	-11859 Nov 15 j 12:31	18°♍35'42	
	-11859 Dec 01 j 22:57	0°♎	
conjunction	-11858 Jan 07 j 14:48	24°♎47'52	-1°15'06
minimum elong	-11858 Jan 07 j 14:33	24°♎47'26	1°15'22
	-11858 Jan 15 j 11:02	0°♏	
max. Earth dist.	-11858 Jan 27 j 09:55	7°♏52'14	2.61505 AU
morning rise	-11858 Feb 27 j 04:59	27°♏51'12	
	-11858 Mar 02 j 13:12	0°♐	
	-11858 Apr 18 j 18:35	0°♑	
	-11858 Jun 05 j 20:58	0°♒	
	-11858 Jul 25 j 10:39	0°♓	
asc. node	-11858 Jul 28 j 16:25	1°♓54'03	
	-11858 Sep 18 j 00:35	0°♈	
retrograde	-11858 Nov 25 j 11:44	20°♈46'21	
opposition	-11858 Dec 28 j 04:44	14°♈37'37	6°32'57
greatest brilliancy	-11858 Dec 29 j 20:15	14°♈06'13	-2.4m
min. Earth dist.	-11857 Jan 04 j 21:05	12°♈11'52	0.44630 AU
direct	-11857 Feb 01 j 23:11	7°♈14'12	
	-11857 Apr 08 j 22:53	0°♉	
	-11857 May 25 j 20:22	0°♊	
desc. node	-11857 Jun 15 j 15:53	14°♊31'30	
	-11857 Jul 07 j 09:07	0°♋	
	-11857 Aug 18 j 05:04	0°♌	
	-11857 Sep 29 j 16:55	0°♍	
	-11857 Nov 12 j 11:42	0°♎	
	-11857 Dec 27 j 17:10	0°♏	
evening set	-11857 Dec 31 j 09:57	2°♏25'02	
	-11856 Feb 12 j 01:37	0°♐	
conjunction	-11856 Feb 18 j 15:49	4°♐13'45	-1°00'21
minimum elong	-11856 Feb 18 j 17:21	4°♐16'11	1°00'57
max. Earth dist.	-11856 Feb 22 j 14:02	6°♐44'43	2.66068 AU
	-11856 Mar 29 j 21:59	0°♑	
morning rise	-11856 Apr 06 j 04:15	4°♑39'01	
	-11856 May 15 j 14:30	0°♒	
asc. node	-11856 Jun 14 j 08:57	19°♒18'21	
	-11856 Jun 30 j 18:16	0°♓	
	-11856 Aug 15 j 12:19	0°♈	
	-11856 Sep 30 j 13:34	0°♉	
	-11856 Nov 18 j 00:51	0°♊	
	-11855 Jan 26 j 12:19	0°♋	
retrograde	-11855 Feb 09 j 05:39	1°♋12'16	
	-11855 Feb 22 j 20:32	30°℞♊	
min. Earth dist.	-11855 Mar 10 j 15:52	26°♊18'40	0.38555 AU
opposition	-11855 Mar 12 j 13:45	25°♊47'27	3°53'46
greatest brilliancy	-11855 Mar 12 j 11:47	25°♊48'48	-2.9m
direct	-11855 Apr 11 j 23:56	20°♊40'27	
desc. node	-11855 May 02 j 20:11	23°♊22'16	
	-11855 May 22 j 17:11	0°♋	
	-11855 Jul 18 j 14:36	0°♌	
	-11855 Sep 04 j 15:34	0°♍	
	-11855 Oct 21 j 09:21	0°♎	
	-11855 Dec 07 j 07:04	0°♏	
	-11854 Jan 23 j 12:06	0°♐	
evening set	-11854 Feb 08 j 19:51	10°♐22'28	
	-11854 Mar 11 j 13:17	0°♑	
max. Earth dist.	-11854 Mar 18 j 00:27	4°♑09'18	2.65314 AU
conjunction	-11854 Mar 28 j 20:26	11°♑08'30	-0°20'30
minimum elong	-11854 Mar 28 j 21:16	11°♑09'50	0°21'10
	-11854 Apr 26 j 18:41	0°♒	
asc. node	-11854 May 02 j 01:06	3°♒28'13	
morning rise	-11854 May 14 j 21:14	11°♒58'52	
	-11854 Jun 10 j 16:18	0°♓	
	-11854 Jul 24 j 03:00	0°♈	
	-11854 Sep 04 j 07:29	0°♉	
	-11854 Oct 15 j 17:41	0°♊	
	-11854 Nov 26 j 06:28	0°♋	
	-11853 Jan 08 j 19:20	0°♌	
	-11853 Mar 02 j 13:16	0°♍	
desc. node	-11853 Mar 20 j 22:31	6°♍49'58	
retrograde	-11853 Apr 13 j 08:31	10°♍25'14	
min. Earth dist.	-11853 May 12 j 04:34	4°♍50'29	0.47582 AU
greatest brilliancy	-11853 May 19 j 02:59	2°♍25'10	-2.3m
opposition	-11853 May 20 j 05:23	2°♍01'57	-3°37'18
	-11853 May 26 j 04:35	30°℞♌	
direct	-11853 Jun 22 j 13:45	25°♌10'50	
	-11853 Jul 21 j 13:40	0°♍	
	-11853 Sep 24 j 21:59	0°♎	
	-11853 Nov 15 j 18:27	0°♏	
	-11852 Jan 04 j 02:09	0°♐	
	-11852 Feb 20 j 23:50	0°♑	
asc. node	-11852 Mar 18 j 20:51	17°♑16'01	
evening set	-11852 Mar 19 j 12:53	17°♑42'03	
	-11852 Apr 07 j 07:29	0°♒	
max. Earth dist.	-11852 Apr 12 j 23:13	3°♒44'49	2.59336 AU
conjunction	-11852 May 07 j 15:40	20°♒20'38	0°30'13
minimum elong	-11852 May 07 j 14:24	20°♒18'29	0°29'44
	-11852 May 21 j 17:35	0°♓	
morning rise	-11852 Jun 26 j 03:36	24°♓55'15	
	-11852 Jul 03 j 05:10	0°♈	
	-11852 Aug 13 j 00:49	0°♉	
	-11852 Sep 21 j 17:48	0°♊	
	-11852 Oct 31 j 01:57	0°♋	
	-11852 Dec 10 j 00:31	0°♌	
	-11851 Jan 20 j 23:07	0°♍	
desc. node	-11851 Feb 04 j 20:50	10°♍03'38	
	-11851 Mar 08 j 18:36	0°♎	
retrograde	-11851 May 26 j 20:58	28°♎47'10	
min. Earth dist.	-11851 Jun 29 j 19:27	21°♎10'29	0.59019 AU
greatest brilliancy	-11851 Jul 04 j 08:08	19°♎23'31	-1.7m
opposition	-11851 Jul 05 j 08:19	18°♎59'42	-5°25'18
direct	-11851 Aug 11 j 03:55	10°♎30'37	
	-11851 Oct 16 j 18:53	0°♏	
	-11851 Dec 12 j 05:04	0°♐	
	-11850 Jan 31 j 10:07	0°♑	
asc. node	-11850 Feb 03 j 22:21	2°♑10'33	
	-11850 Mar 19 j 12:21	0°♒	
evening set	-11850 May 02 j 03:30	29°♒25'33	
	-11850 May 02 j 23:22	0°♓	
max. Earth dist.	-11850 May 18 j 13:51	10°♓56'13	2.48875 AU
	-11850 Jun 14 j 01:48	0°♈	
conjunction	-11850 Jun 24 j 07:09	7°♈30'52	1°09'49
minimum elong	-11850 Jun 24 j 05:43	7°♈28'13	1°09'53
	-11850 Jul 24 j 06:36	0°♉	
morning rise	-11850 Aug 19 j 21:06	20°♉24'34	
	-11850 Sep 01 j 06:09	0°♊	
	-11850 Oct 09 j 19:58	0°♋	
	-11850 Nov 17 j 21:16	0°♌	
desc. node	-11850 Dec 23 j 13:43	26°♌31'35	
	-11850 Dec 28 j 08:46	0°♍	
	-11849 Feb 09 j 08:42	0°♎	
	-11849 Mar 28 j 19:39	0°♏	
	-11849 May 29 j 06:14	0°♐	
retrograde	-11849 Jul 02 j 18:34	6°♐34'24	
	-11849 Aug 03 j 09:16	30°℞♏	
min. Earth dist.	-11849 Aug 09 j 21:12	27°♏26'11	0.65515 AU
opposition	-11849 Aug 11 j 16:27	26°♏42'32	-4°28'24
greatest brilliancy	-11849 Aug 11 j 10:32	26°♏48'31	-1.4m
direct	-11849 Sep 19 j 22:48	17°♏16'15	
	-11849 Nov 10 j 20:33	0°♐	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

asc. node	-11849 Dec 23 j 03:45	20°♐35'57	
	-11848 Jan 09 j 00:45	0°♑	
	-11848 Feb 27 j 11:27	0°♒	
	-11848 Apr 12 j 15:47	0°♓	
	-11848 May 24 j 20:18	0°♈	
evening set	-11848 Jun 23 j 06:32	21°♈56'07	
	-11848 Jul 03 j 20:42	0°♉	
	-11848 Aug 11 j 13:34	0°♊	
max. Earth dist.	-11848 Aug 12 j 06:16	0°♊32'39	2.38440 AU
conjunction	-11848 Aug 22 j 12:38	8°♊35'09	0°54'04
minimum elong	-11848 Aug 22 j 15:57	8°♊41'38	0°54'40
	-11848 Sep 18 j 20:36	0°♋	
morning rise	-11848 Oct 26 j 01:33	28°♋47'46	
	-11848 Oct 27 j 15:23	0°♌	
desc. node	-11848 Nov 09 j 06:10	9°♌34'14	
	-11848 Dec 06 j 18:01	0°♍	
	-11847 Jan 17 j 21:51	0°♎	
	-11847 Mar 03 j 19:42	0°♏	
	-11847 Apr 21 j 18:00	0°♐	
	-11847 Jun 20 j 01:18	0°♑	
retrograde	-11847 Aug 06 j 03:30	10°♑58'19	
opposition	-11847 Sep 14 j 07:33	1°♑35'47	-2°13'04
greatest brilliancy	-11847 Sep 14 j 11:50	1°♑31'30	-1.4m
min. Earth dist.	-11847 Sep 16 j 06:24	0°♑48'53	0.65877 AU
	-11847 Sep 18 j 07:31	30°℞♐	
direct	-11847 Oct 24 j 21:25	21°♐40'33	
asc. node	-11847 Nov 09 j 09:32	23°♐05'16	
	-11847 Dec 04 j 02:56	0°♑	
	-11846 Feb 02 j 22:07	0°♒	
	-11846 Mar 22 j 15:41	0°♓	
	-11846 May 04 j 16:12	0°♈	
	-11846 Jun 13 j 23:14	0°♉	
	-11846 Jul 22 j 18:31	0°♊	
evening set	-11846 Aug 26 j 14:03	27°♊13'53	
	-11846 Aug 30 j 03:11	0°♋	
desc. node	-11846 Sep 27 j 02:06	21°♋39'21	
	-11846 Oct 07 j 23:54	0°♌	
conjunction	-11846 Oct 27 j 10:33	14°♌40'21	-0°22'26
minimum elong	-11846 Oct 27 j 08:48	14°♌37'05	0°21'54
	-11846 Nov 17 j 04:04	0°♍	
max. Earth dist.	-11846 Dec 09 j 10:48	16°♍04'37	2.47209 AU
morning rise	-11846 Dec 26 j 10:42	28°♍03'20	
	-11846 Dec 29 j 05:41	0°♎	
	-11845 Feb 11 j 12:43	0°♏	
	-11845 Mar 30 j 05:42	0°♐	
	-11845 May 19 j 00:18	0°♑	
	-11845 Jul 14 j 22:28	0°♒	
retrograde	-11845 Sep 13 j 21:12	16°♒45'50	
asc. node	-11845 Sep 27 j 12:46	15°♒32'38	
opposition	-11845 Oct 21 j 06:30	8°♒17'58	1°03'07
greatest brilliancy	-11845 Oct 21 j 10:59	8°♒13'38	-1.7m
min. Earth dist.	-11845 Oct 26 j 19:04	6°♒10'08	0.60153 AU
	-11845 Nov 15 j 17:55	30°℞♑	
direct	-11845 Nov 30 j 18:03	28°♑28'11	
	-11845 Dec 16 j 13:16	0°♒	
	-11844 Feb 24 j 06:52	0°♓	
	-11844 Apr 10 j 18:56	0°♈	
	-11844 May 22 j 09:20	0°♉	
	-11844 Jun 30 j 21:33	0°♊	
	-11844 Aug 08 j 19:05	0°♋	
desc. node	-11844 Aug 14 j 02:16	4°♋04'37	
	-11844 Sep 17 j 03:28	0°♌	
evening set	-11844 Oct 25 j 23:32	28°♌42'40	
	-11844 Oct 27 j 18:14	0°♍	
	-11844 Dec 09 j 03:41	0°♎	

conjunction	-11844 Dec 20 j 09:54	7°♎44'34	-1°10'29
minimum elong	-11844 Dec 20 j 08:25	7°♎42'03	1°10'31
max. Earth dist.	-11843 Jan 16 j 02:30	25°♎45'21	2.58310 AU
	-11843 Jan 22 j 11:50	0°♏	
morning rise	-11843 Feb 11 j 00:30	12°♏50'05	
	-11843 Mar 09 j 14:29	0°♐	
	-11843 Apr 26 j 04:40	0°♑	
	-11843 Jun 14 j 09:10	0°♒	
	-11843 Aug 06 j 02:32	0°♓	
asc. node	-11843 Aug 14 j 10:48	4°♓21'08	
retrograde	-11843 Oct 31 j 21:37	29°♓52'27	
opposition	-11843 Dec 05 j 06:22	22°♓55'51	5°08'54
greatest brilliancy	-11843 Dec 06 j 14:13	22°♓28'16	-2.1m
min. Earth dist.	-11843 Dec 13 j 07:07	20°♓09'53	0.49380 AU
direct	-11842 Jan 12 j 03:57	14°♓26'06	
	-11842 Mar 06 j 10:58	0°♈	
	-11842 Apr 25 j 04:52	0°♉	
	-11842 Jun 06 j 16:02	0°♊	
desc. node	-11842 Jul 02 j 06:22	18°♊49'59	
	-11842 Jul 17 j 08:04	0°♋	
	-11842 Aug 27 j 00:28	0°♌	
	-11842 Oct 07 j 17:00	0°♍	
	-11842 Nov 19 j 22:15	0°♎	
evening set	-11842 Dec 14 j 13:30	16°♎36'11	
	-11841 Jan 03 j 18:53	0°♏	
conjunction	-11841 Feb 02 j 23:16	19°♏40'50	-1°09'52
minimum elong	-11841 Feb 03 j 00:24	19°♏42'41	1°10'21
max. Earth dist.	-11841 Feb 12 j 19:31	26°♏02'13	2.64921 AU
	-11841 Feb 18 j 23:16	0°♐	
morning rise	-11841 Mar 23 j 08:25	20°♐43'55	
	-11841 Apr 06 j 21:15	0°♑	
	-11841 May 23 j 23:09	0°♒	
asc. node	-11841 Jul 02 j 03:58	24°♒59'11	
	-11841 Jul 10 j 01:02	0°♓	
	-11841 Aug 26 j 16:23	0°♈	
	-11841 Oct 16 j 00:34	0°♉	
	-11841 Dec 26 j 14:32	0°♊	
retrograde	-11840 Jan 10 j 03:52	1°♊17'55	
	-11840 Jan 24 j 17:22	30°℞♉	
opposition	-11840 Feb 10 j 00:05	26°♉07'31	6°30'06
greatest brilliancy	-11840 Feb 10 j 20:53	25°♉53'18	-2.8m
min. Earth dist.	-11840 Feb 13 j 04:03	25°♉15'43	0.39148 AU
direct	-11840 Mar 12 j 14:08	20°♉36'25	
	-11840 Apr 21 j 18:18	0°♊	
desc. node	-11840 May 19 j 13:02	13°♊49'29	
	-11840 Jun 15 j 16:13	0°♋	
	-11840 Jul 31 j 17:36	0°♌	
	-11840 Sep 14 j 12:06	0°♍	
	-11840 Oct 29 j 16:06	0°♎	
	-11840 Dec 14 j 17:27	0°♏	
evening set	-11839 Jan 24 j 11:49	26°♏09'29	
	-11839 Jan 30 j 12:07	0°♐	
max. Earth dist.	-11839 Mar 08 j 14:08	23°♐41'55	2.66242 AU
conjunction	-11839 Mar 13 j 17:15	26°♐59'09	-0°38'00
minimum elong	-11839 Mar 13 j 18:36	27°♐01'19	0°38'40
	-11839 Mar 18 j 10:01	0°♑	
morning rise	-11839 Apr 29 j 15:14	27°♑18'31	
	-11839 May 03 j 18:06	0°♒	
asc. node	-11839 May 18 j 19:17	9°♒53'06	
	-11839 Jun 18 j 00:45	0°♓	
	-11839 Aug 01 j 03:21	0°♈	
	-11839 Sep 13 j 07:46	0°♉	
	-11839 Oct 26 j 04:31	0°♊	
	-11839 Dec 09 j 01:55	0°♋	
	-11838 Jan 27 j 19:43	0°♌	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

retrograde	-11838 Mar 22 j 16:20	16°♌16'10	
desc. node	-11838 Apr 06 j 16:44	14°♌42'03	
min. Earth dist.	-11838 Apr 19 j 04:04	11°♌23'20	0.42909 AU
opposition	-11838 Apr 26 j 13:13	9°♌02'48	-1°23'48
greatest brilliancy	-11838 Apr 26 j 02:48	9°♌11'06	-2.6m
direct	-11838 May 28 j 06:36	3°♌02'11	
	-11838 Aug 14 j 23:06	0°♍	
	-11838 Oct 06 j 03:57	0°♎	
	-11838 Nov 24 j 06:56	0°♏	
	-11837 Jan 11 j 12:57	0°♐	
	-11837 Feb 28 j 00:23	0°♑	
evening set	-11837 Mar 04 j 22:18	3°♑08'45	
max. Earth dist.	-11837 Apr 02 j 22:38	21°♑55'09	2.62274 AU
asc. node	-11837 Apr 05 j 13:21	23°♑37'45	
	-11837 Apr 15 j 05:54	0°♒	
conjunction	-11837 Apr 22 j 07:49	4°♒41'13	0°10'19
minimum elong	-11837 Apr 22 j 07:24	4°♒40'31	0°09'45
behind sun begin	-11837 Apr 21 j 15:13	4°♒13'40	
behind sun end	-11837 Apr 22 j 23:34	5°♒07'22	
	-11837 May 29 j 19:22	0°♓	
morning rise	-11837 Jun 09 j 10:00	7°♓19'39	
	-11837 Jul 11 j 14:09	0°♈	
	-11837 Aug 21 j 19:48	0°♉	
	-11837 Oct 01 j 00:26	0°♊	
	-11837 Nov 09 j 22:02	0°♋	
	-11837 Dec 20 j 14:46	0°♌	
	-11836 Feb 02 j 02:06	0°♍	
desc. node	-11836 Feb 22 j 15:18	12°♍50'45	
	-11836 Mar 25 j 21:17	0°♎	
retrograde	-11836 May 10 j 22:02	11°♎56'39	
min. Earth dist.	-11836 Jun 11 j 21:50	5°♎04'53	0.54973 AU
greatest brilliancy	-11836 Jun 17 j 12:02	2°♎56'34	-1.9m
opposition	-11836 Jun 18 j 17:35	2°♎28'13	-5°12'10
	-11836 Jun 25 j 09:56	30°℞♍	
direct	-11836 Jul 24 j 07:00	24°♍31'39	
	-11836 Aug 24 j 20:39	0°♎	
	-11836 Oct 29 j 13:14	0°♏	
	-11836 Dec 20 j 22:03	0°♐	
	-11835 Feb 07 j 22:59	0°♑	
asc. node	-11835 Feb 20 j 13:09	7°♑56'47	
	-11835 Mar 26 j 15:48	0°♒	
evening set	-11835 Apr 14 j 09:16	12°♒27'52	
max. Earth dist.	-11835 May 02 j 21:45	25°♒03'23	2.53410 AU
	-11835 May 10 j 01:35	0°♓	
conjunction	-11835 Jun 04 j 12:57	17°♓55'34	0°58'01
minimum elong	-11835 Jun 04 j 10:58	17°♓52'02	0°57'49
	-11835 Jun 21 j 06:52	0°♈	
morning rise	-11835 Jul 27 j 16:51	26°♈59'28	
	-11835 Jul 31 j 16:30	0°♉	
	-11835 Sep 08 j 21:25	0°♊	
	-11835 Oct 17 j 16:27	0°♋	
	-11835 Nov 25 j 23:04	0°♌	
	-11834 Jan 05 j 18:23	0°♍	
desc. node	-11834 Jan 09 j 10:17	2°♍36'30	
	-11834 Feb 18 j 12:59	0°♎	
	-11834 Apr 09 j 18:02	0°♏	
retrograde	-11834 Jun 18 j 21:27	22°♏45'55	
min. Earth dist.	-11834 Jul 25 j 12:27	14°♏09'40	0.63695 AU
opposition	-11834 Jul 28 j 19:32	12°♏50'13	-5°02'09
greatest brilliancy	-11834 Jul 28 j 06:42	13°♏03'07	-1.5m
direct	-11834 Sep 05 j 06:25	3°♏42'30	
	-11834 Nov 25 j 04:10	0°♐	
asc. node	-11833 Jan 08 j 17:34	24°♐31'04	
	-11833 Jan 18 j 00:33	0°♑	
	-11833 Mar 07 j 05:59	0°♒	
	-11833 Apr 21 j 01:23	0°♓	
evening set	-11833 Jun 02 j 02:44	29°♓57'30	
	-11833 Jun 02 j 04:06	0°♈	
max. Earth dist.	-11833 Jun 24 j 03:42	16°♈18'29	2.41629 AU
	-11833 Jul 12 j 05:32	0°♉	
conjunction	-11833 Jul 29 j 11:05	13°♉14'48	1°10'01
minimum elong	-11833 Jul 29 j 12:44	13°♉17'58	1°10'27
	-11833 Aug 20 j 00:14	0°♊	
	-11833 Sep 27 j 09:01	0°♋	
morning rise	-11833 Sep 29 j 20:54	1°♋56'44	
	-11833 Nov 05 j 05:07	0°♌	
desc. node	-11833 Nov 27 j 02:50	16°♌31'14	
	-11833 Dec 15 j 09:12	0°♍	
	-11832 Jan 26 j 17:09	0°♎	
	-11832 Mar 12 j 04:29	0°♏	
	-11832 May 02 j 04:47	0°♐	
retrograde	-11832 Jul 23 j 06:38	27°♐51'47	
opposition	-11832 Aug 31 j 20:56	18°♐14'39	-3°12'58
greatest brilliancy	-11832 Aug 31 j 22:53	18°♐12'41	-1.4m
min. Earth dist.	-11832 Sep 01 j 08:31	18°♐02'59	0.66486 AU
direct	-11832 Oct 11 j 02:16	8°♐27'30	
asc. node	-11832 Nov 26 j 00:07	18°♐50'28	
	-11832 Dec 20 j 22:47	0°♑	
	-11831 Feb 12 j 13:30	0°♒	
	-11831 Mar 30 j 22:18	0°♓	
	-11831 May 12 j 12:10	0°♈	
	-11831 Jun 21 j 15:10	0°♉	
	-11831 Jul 30 j 08:17	0°♊	
evening set	-11831 Jul 31 j 18:43	1°♊07'22	
	-11831 Sep 06 j 15:12	0°♋	
conjunction	-11831 Oct 02 j 11:15	20°♋04'05	0°08'41
minimum elong	-11831 Oct 02 j 12:06	20°♋05'42	0°09'19
behind sun begin	-11831 Oct 01 j 13:44	19°♋22'36	
behind sun end	-11831 Oct 03 j 10:28	20°♋48'46	
desc. node	-11831 Oct 13 j 20:09	28°♋47'42	
	-11831 Oct 15 j 10:01	0°♌	
max. Earth dist.	-11831 Nov 14 j 17:36	22°♌48'05	2.42374 AU
	-11831 Nov 24 j 12:14	0°♍	
morning rise	-11831 Dec 04 j 10:53	7°♍14'11	
	-11830 Jan 05 j 13:01	0°♎	
	-11830 Feb 18 j 22:42	0°♏	
	-11830 Apr 07 j 04:30	0°♐	
	-11830 May 28 j 20:14	0°♑	
	-11830 Aug 07 j 21:39	0°♒	
retrograde	-11830 Aug 29 j 01:14	2°♒32'20	
	-11830 Sep 17 j 16:47	30°℞♑	
opposition	-11830 Oct 06 j 06:49	23°♑39'29	-0°20'11
greatest brilliancy	-11830 Oct 06 j 08:18	23°♑38'00	-1.5m
min. Earth dist.	-11830 Oct 10 j 10:37	22°♑01'22	0.63116 AU
asc. node	-11830 Oct 14 j 04:13	20°♑35'08	
direct	-11830 Nov 16 j 00:36	13°♑41'54	
	-11829 Jan 13 j 07:07	0°♒	
	-11829 Mar 07 j 13:14	0°♓	
	-11829 Apr 21 j 01:32	0°♈	
	-11829 May 31 j 22:57	0°♉	
	-11829 Jul 10 j 01:53	0°♊	
	-11829 Aug 17 j 16:20	0°♋	
desc. node	-11829 Aug 31 j 19:55	10°♋56'28	
	-11829 Sep 25 j 18:17	0°♌	
evening set	-11829 Oct 04 j 10:19	6°♌32'29	
	-11829 Nov 05 j 03:04	0°♍	
conjunction	-11829 Dec 01 j 14:20	18°♍59'07	-0°58'17
minimum elong	-11829 Dec 01 j 11:51	18°♍54'44	0°58'07
	-11829 Dec 17 j 07:49	0°♎	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

max. Earth dist.	-11828 Jan 04 j 10:58	12°♎27'51	2.54395 AU
morning rise	-11828 Jan 25 j 18:48	26°♎49'17	
	-11828 Jan 30 j 13:38	0°♏	
	-11828 Mar 16 j 19:03	0°♐	
	-11828 May 03 j 22:33	0°♑	
	-11828 Jun 23 j 19:42	0°♒	
	-11828 Aug 22 j 11:08	0°♓	
asc. node	-11828 Aug 31 j 03:56	3°♓22'59	
retrograde	-11828 Oct 10 j 22:35	11°♓51'15	
opposition	-11828 Nov 15 j 16:04	4°♓13'11	3°30'47
greatest brilliancy	-11828 Nov 16 j 11:57	3°♓54'57	-1.9m
min. Earth dist.	-11828 Nov 23 j 00:06	1°♓32'20	0.54059 AU
	-11828 Nov 27 j 10:33	30°℞♒	
direct	-11828 Dec 25 j 00:10	24°♒58'38	
	-11827 Jan 22 j 21:28	0°♓	
	-11827 Mar 23 j 13:44	0°♈	
	-11827 May 06 j 21:58	0°♉	
	-11827 Jun 16 j 15:44	0°♊	
desc. node	-11827 Jul 18 j 23:25	24°♊25'06	
	-11827 Jul 26 j 08:28	0°♋	
	-11827 Sep 04 j 07:59	0°♌	
	-11827 Oct 15 j 11:05	0°♍	
evening set	-11827 Nov 26 j 11:07	29°♍27'23	
	-11827 Nov 27 j 06:06	0°♎	
	-11826 Jan 10 j 19:49	0°♏	
conjunction	-11826 Jan 17 j 11:55	4°♏23'48	-1°14'45
minimum elong	-11826 Jan 17 j 12:16	4°♏24'22	1°15'06
max. Earth dist.	-11826 Feb 02 j 15:56	14°♏58'20	2.62927 AU
	-11826 Feb 25 j 21:44	0°♐	
morning rise	-11826 Mar 08 j 04:30	6°♐35'47	
	-11826 Apr 13 j 23:24	0°♑	
	-11826 May 31 j 15:05	0°♒	
asc. node	-11826 Jul 18 j 22:34	29°♒54'59	
	-11826 Jul 19 j 01:52	0°♓	
	-11826 Sep 08 j 01:51	0°♈	
	-11826 Nov 12 j 12:43	0°♉	
retrograde	-11826 Dec 11 j 02:04	4°♉32'38	
	-11825 Jan 07 j 22:25	30°℞♈	
opposition	-11825 Jan 11 j 21:18	28°♈50'00	6°59'25
greatest brilliancy	-11825 Jan 13 j 11:33	28°♈21'12	-2.6m
min. Earth dist.	-11825 Jan 18 j 13:45	26°♈49'42	0.42242 AU
direct	-11825 Feb 15 j 04:41	22°♈09'16	
	-11825 Mar 23 j 00:25	0°♉	
	-11825 May 16 j 23:05	0°♊	
desc. node	-11825 Jun 06 j 04:10	13°♊19'52	
	-11825 Jun 30 j 11:12	0°♋	
	-11825 Aug 12 j 06:58	0°♌	
	-11825 Sep 24 j 09:05	0°♍	
	-11825 Nov 07 j 13:05	0°♎	
	-11825 Dec 22 j 23:55	0°♏	
evening set	-11824 Jan 09 j 17:21	11°♏30'12	
	-11824 Feb 07 j 11:02	0°♐	
conjunction	-11824 Feb 27 j 12:24	12°♐50'49	-0°53'03
minimum elong	-11824 Feb 27 j 13:58	12°♐53'19	0°53'41
max. Earth dist.	-11824 Feb 28 j 04:57	13°♐17'18	2.66349 AU
	-11824 Mar 25 j 07:19	0°♑	
morning rise	-11824 Apr 14 j 17:20	13°♑07'00	
	-11824 May 10 j 20:12	0°♒	
asc. node	-11824 Jun 04 j 14:25	16°♒08'59	
	-11824 Jun 25 j 15:29	0°♓	
	-11824 Aug 09 j 16:50	0°♈	
	-11824 Sep 23 j 10:46	0°♉	
	-11824 Nov 08 j 00:08	0°♊	
	-11824 Dec 28 j 09:19	0°♋	
retrograde	-11823 Feb 25 j 06:01	18°♋24'22	
min. Earth dist.	-11823 Mar 25 j 06:42	13°♋44'44	0.39453 AU
opposition	-11823 Mar 29 j 18:22	12°♋27'57	1°53'18
greatest brilliancy	-11823 Mar 29 j 13:02	12°♋31'46	-2.8m
desc. node	-11823 Apr 23 j 08:54	7°♋24'22	
direct	-11823 Apr 29 j 06:31	7°♋10'35	
	-11823 Jul 07 j 22:26	0°♌	
	-11823 Aug 28 j 16:03	0°♍	
	-11823 Oct 15 j 17:37	0°♎	
	-11823 Dec 02 j 06:09	0°♏	
	-11822 Jan 18 j 18:38	0°♐	
evening set	-11822 Feb 17 j 14:29	18°♐55'02	
	-11822 Mar 06 j 22:56	0°♑	
max. Earth dist.	-11822 Mar 23 j 18:03	10°♑48'41	2.64437 AU
conjunction	-11822 Apr 06 j 16:12	19°♑50'48	-0°09'32
minimum elong	-11822 Apr 06 j 16:37	19°♑51'28	0°10'10
behind sun begin	-11822 Apr 06 j 01:09	19°♑26'17	
behind sun end	-11822 Apr 07 j 08:05	20°♑16'41	
asc. node	-11822 Apr 22 j 07:04	0°♒04'52	
	-11822 Apr 22 j 04:07	0°♒	
morning rise	-11822 May 23 j 23:03	21°♒11'19	
	-11822 Jun 05 j 22:43	0°♓	
	-11822 Jul 19 j 03:13	0°♈	
	-11822 Aug 29 j 22:39	0°♉	
	-11822 Oct 09 j 20:19	0°♊	
	-11822 Nov 19 j 15:20	0°♋	
	-11822 Dec 31 j 17:39	0°♌	
	-11821 Feb 16 j 19:55	0°♍	
desc. node	-11821 Mar 11 j 10:26	11°♍37'18	
retrograde	-11821 Apr 24 j 07:48	22°♍52'38	
min. Earth dist.	-11821 May 24 j 06:22	16°♍50'08	0.50287 AU
greatest brilliancy	-11821 May 30 j 18:48	14°♍27'49	-2.1m
opposition	-11821 Jun 01 j 00:51	14°♍00'18	-4°25'17
direct	-11821 Jul 05 j 04:14	6°♍43'49	
	-11821 Sep 16 j 06:51	0°♎	
	-11821 Nov 09 j 19:29	0°♏	
	-11821 Dec 29 j 23:52	0°♐	
	-11820 Feb 16 j 06:09	0°♑	
asc. node	-11820 Mar 09 j 04:49	14°♑01'08	
evening set	-11820 Mar 28 j 17:02	26°♑42'44	
	-11820 Apr 02 j 16:55	0°♒	
max. Earth dist.	-11820 Apr 19 j 17:30	11°♒19'49	2.57397 AU
conjunction	-11820 May 17 j 10:03	0°♓11'56	0°41'08
minimum elong	-11820 May 17 j 08:23	0°♓09'04	0°40'45
	-11820 May 17 j 03:09	0°♓	
	-11820 Jun 28 j 12:27	0°♈	
morning rise	-11820 Jul 07 j 00:18	6°♈10'22	
	-11820 Aug 08 j 04:22	0°♉	
	-11820 Sep 16 j 16:24	0°♊	
	-11820 Oct 25 j 18:53	0°♋	
	-11820 Dec 04 j 10:07	0°♌	
	-11819 Jan 14 j 19:13	0°♍	
desc. node	-11819 Jan 26 j 05:28	7°♍54'43	
	-11819 Mar 01 j 00:53	0°♎	
	-11819 Apr 27 j 15:24	0°♏	
retrograde	-11819 Jun 04 j 11:59	8°♏07'13	
min. Earth dist.	-11819 Jul 09 j 10:48	0°♏08'03	0.60943 AU
	-11819 Jul 09 j 18:57	30°℞♎	
greatest brilliancy	-11819 Jul 13 j 08:55	28°♎34'33	-1.6m
opposition	-11819 Jul 14 j 05:12	28°♎14'24	-5°22'01
direct	-11819 Aug 20 j 16:07	19°♎30'07	
	-11819 Oct 05 j 19:20	0°♏	
	-11819 Dec 06 j 00:22	0°♐	
asc. node	-11818 Jan 25 j 07:50	29°♐25'49	
	-11818 Jan 26 j 06:13	0°♑	
	-11818 Mar 14 j 17:20	0°♒	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11818 Apr 28 j 07:44	0°♓	
evening set	-11818 May 12 j 20:21	10°♓09'48	
max. Earth dist.	-11818 May 29 j 05:48	21°♓51'54	2.46270 AU
	-11818 Jun 09 j 10:40	0°♈	
conjunction	-11818 Jul 06 j 08:19	19°♈57'46	1°13'01
minimum elong	-11818 Jul 06 j 07:44	19°♈56'39	1°13'13
	-11818 Jul 19 j 14:34	0°♉	
	-11818 Aug 27 j 12:09	0°♊	
morning rise	-11818 Sep 03 j 01:59	5°♊07'22	
	-11818 Oct 04 j 23:33	0°♋	
	-11818 Nov 12 j 21:59	0°♌	
desc. node	-11818 Dec 13 j 23:09	23°♌14'15	
	-11818 Dec 23 j 05:08	0°♍	
	-11817 Feb 03 j 20:35	0°♎	
	-11817 Mar 22 j 07:18	0°♏	
	-11817 May 16 j 15:08	0°♐	
retrograde	-11817 Jul 10 j 15:44	14°♐43'30	
opposition	-11817 Aug 19 j 12:19	4°♐55'40	-4°03'31
greatest brilliancy	-11817 Aug 19 j 09:41	4°♐58'20	-1.4m
min. Earth dist.	-11817 Aug 18 j 12:24	5°♐19'48	0.66136 AU
	-11817 Sep 01 j 12:11	30°℞♏	
direct	-11817 Sep 28 j 04:27	25°♏20'52	
	-11817 Oct 27 j 12:57	0°♐	
asc. node	-11817 Dec 13 j 12:59	19°♐25'57	
	-11816 Jan 02 j 13:42	0°♑	
	-11816 Feb 22 j 04:06	0°♒	
	-11816 Apr 07 j 17:51	0°♓	
	-11816 May 20 j 01:52	0°♈	
	-11816 Jun 29 j 03:36	0°♉	
evening set	-11816 Jul 06 j 16:06	5°♉46'11	
	-11816 Aug 06 j 20:38	0°♊	
conjunction	-11816 Sep 06 j 05:07	23°♊47'46	0°39'44
minimum elong	-11816 Sep 06 j 08:16	23°♊53'57	0°40'22
	-11816 Sep 14 j 03:22	0°♋	
max. Earth dist.	-11816 Sep 27 j 03:04	10°♋07'40	2.38645 AU
	-11816 Oct 22 j 21:32	0°♌	
desc. node	-11816 Oct 30 j 17:07	5°♌57'02	
morning rise	-11816 Nov 09 j 20:51	13°♌36'56	
	-11816 Dec 01 j 22:49	0°♍	
	-11815 Jan 12 j 23:57	0°♎	
	-11815 Feb 26 j 14:52	0°♏	
	-11815 Apr 15 j 17:06	0°♐	
	-11815 Jun 09 j 20:41	0°♑	
retrograde	-11815 Aug 14 j 07:20	19°♑01'18	
opposition	-11815 Sep 22 j 04:48	9°♑48'06	-1°34'08
greatest brilliancy	-11815 Sep 22 j 09:02	9°♑43'53	-1.4m
min. Earth dist.	-11815 Sep 24 j 22:29	8°♑42'43	0.65155 AU
	-11815 Oct 27 j 22:54	30°℞♐	
asc. node	-11815 Oct 30 j 18:17	29°♐52'13	
direct	-11815 Nov 01 j 22:07	29°♐50'26	
	-11815 Nov 06 j 23:49	0°♑	
	-11814 Jan 26 j 22:21	0°♒	
	-11814 Mar 17 j 01:26	0°♓	
	-11814 Apr 29 j 12:40	0°♈	
	-11814 Jun 09 j 00:24	0°♉	
	-11814 Jul 17 j 21:59	0°♊	
	-11814 Aug 25 j 08:12	0°♋	
evening set	-11814 Sep 09 j 23:35	12°♋08'29	
desc. node	-11814 Sep 17 j 13:16	17°♋58'58	
	-11814 Oct 03 j 06:10	0°♌	
conjunction	-11814 Nov 09 j 17:39	28°♌00'23	-0°37'41
minimum elong	-11814 Nov 09 j 15:08	27°♌55'47	0°37'15
	-11814 Nov 12 j 11:02	0°♍	
max. Earth dist.	-11814 Dec 20 j 02:52	26°♍55'32	2.49879 AU
	-11814 Dec 24 j 12:40	0°♎	
morning rise	-11813 Jan 06 j 23:18	9°♎16'54	
	-11813 Feb 06 j 17:48	0°♏	
	-11813 Mar 25 j 04:38	0°♐	
	-11813 May 13 j 04:35	0°♑	
	-11813 Jul 06 j 00:15	0°♒	
asc. node	-11813 Sep 17 j 20:08	25°♒34'45	
retrograde	-11813 Sep 23 j 12:49	25°♒46'46	
opposition	-11813 Oct 30 j 09:44	17°♒34'39	1°54'57
greatest brilliancy	-11813 Oct 30 j 18:55	17°♒25'54	-1.7m
min. Earth dist.	-11813 Nov 05 j 15:05	15°♒12'52	0.58199 AU
direct	-11813 Dec 09 j 14:54	7°♒53'32	
	-11812 Feb 15 j 16:04	0°♓	
	-11812 Apr 04 j 10:58	0°♈	
	-11812 May 16 j 18:28	0°♉	
	-11812 Jun 25 j 14:46	0°♊	
	-11812 Aug 03 j 17:26	0°♋	
desc. node	-11812 Aug 04 j 14:43	0°♋40'46	
	-11812 Sep 12 j 05:46	0°♌	
	-11812 Oct 22 j 23:28	0°♍	
evening set	-11812 Nov 06 j 21:43	10°♍41'33	
	-11812 Dec 04 j 11:06	0°♎	
conjunction	-11812 Dec 31 j 00:07	18°♎05'33	-1°13'57
minimum elong	-11812 Dec 30 j 23:22	18°♎04'16	1°14'07
	-11811 Jan 17 j 20:06	0°♏	
max. Earth dist.	-11811 Jan 22 j 20:56	3°♏19'44	2.60167 AU
morning rise	-11811 Feb 20 j 10:29	21°♏58'45	
	-11811 Mar 04 j 21:27	0°♐	
	-11811 Apr 21 j 05:34	0°♑	
	-11811 Jun 08 j 17:27	0°♒	
	-11811 Jul 29 j 09:16	0°♓	
asc. node	-11811 Aug 04 j 16:59	3°♓34'06	
	-11811 Sep 26 j 11:54	0°♈	
retrograde	-11811 Nov 14 j 08:28	11°♈44'28	
opposition	-11811 Dec 17 j 19:30	5°♈13'51	5°59'49
greatest brilliancy	-11811 Dec 19 j 08:54	4°♈42'53	-2.3m
min. Earth dist.	-11811 Dec 25 j 19:59	2°♈35'10	0.46734 AU
	-11810 Jan 03 j 14:55	30°℞♓	
direct	-11810 Jan 23 j 15:51	27°♓18'07	
	-11810 Feb 12 j 23:26	0°♈	
	-11810 Apr 16 j 08:36	0°♉	
	-11810 May 30 j 19:12	0°♊	
desc. node	-11810 Jun 22 j 19:48	16°♊31'20	
	-11810 Jul 11 j 08:25	0°♋	
	-11810 Aug 21 j 14:03	0°♌	
	-11810 Oct 02 j 15:23	0°♍	
	-11810 Nov 15 j 02:40	0°♎	
evening set	-11810 Dec 24 j 08:07	26°♎11'52	
	-11810 Dec 30 j 02:54	0°♏	
conjunction	-11809 Feb 12 j 01:30	28°♏31'00	-1°04'50
minimum elong	-11809 Feb 12 j 02:55	28°♏33'16	1°05'23
	-11809 Feb 14 j 08:52	0°♐	
max. Earth dist.	-11809 Feb 18 j 13:29	2°♐41'37	2.65658 AU
morning rise	-11809 Mar 31 j 22:04	29°♐09'43	
	-11809 Apr 02 j 05:33	0°♑	
	-11809 May 19 j 01:58	0°♒	
asc. node	-11809 Jun 22 j 09:46	22°♒06'42	
	-11809 Jul 04 j 14:50	0°♓	
	-11809 Aug 20 j 02:01	0°♈	
	-11809 Oct 06 j 13:54	0°♉	
	-11809 Nov 28 j 03:04	0°♊	
retrograde	-11808 Jan 27 j 23:25	18°♊22'37	
opposition	-11808 Feb 27 j 18:29	13°♊11'45	5°15'22
greatest brilliancy	-11808 Feb 28 j 01:21	13°♊07'09	-2.9m
min. Earth dist.	-11808 Feb 28 j 04:46	13°♊04'52	0.38455 AU

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

direct	-11808 Mar 29 j 11:21	8°♊01'26	
desc. node	-11808 May 10 j 00:34	17°♊49'28	
	-11808 Jun 04 j 00:35	0°♋	
	-11808 Jul 24 j 03:36	0°♌	
	-11808 Sep 08 j 10:58	0°♍	
	-11808 Oct 24 j 09:27	0°♎	
	-11808 Dec 09 j 20:40	0°♏	
	-11807 Jan 25 j 20:34	0°♐	
evening set	-11807 Feb 02 j 08:01	4°♐45'49	
	-11807 Mar 13 j 20:14	0°♑	
max. Earth dist.	-11807 Mar 14 j 04:29	0°♑13'14	2.65836 AU
conjunction	-11807 Mar 22 j 09:34	5°♑29'52	-0°28'07
minimum elong	-11807 Mar 22 j 10:39	5°♑31'36	0°28'47
	-11807 Apr 29 j 03:14	0°♒	
morning rise	-11807 May 08 j 07:44	6°♒02'28	
asc. node	-11807 May 09 j 01:51	6°♒32'21	
	-11807 Jun 13 j 05:28	0°♓	
	-11807 Jul 26 j 23:21	0°♈	
	-11807 Sep 07 j 14:01	0°♉	
	-11807 Oct 19 j 13:24	0°♊	
	-11807 Nov 30 j 21:34	0°♋	
	-11806 Jan 15 j 02:39	0°♌	
	-11806 Mar 24 j 09:23	0°♍	
desc. node	-11806 Mar 28 j 03:19	0°♍28'09	
retrograde	-11806 Apr 04 j 11:00	0°♍50'36	
	-11806 Apr 15 j 06:07	30°℞♌	
min. Earth dist.	-11806 May 02 j 13:05	25°♌36'16	0.45413 AU
opposition	-11806 May 10 j 11:43	22°♌55'57	-2°48'31
greatest brilliancy	-11806 May 09 j 14:35	23°♌13'51	-2.4m
direct	-11806 Jun 12 j 02:54	16°♌27'02	
	-11806 Aug 02 j 23:52	0°♍	
	-11806 Sep 29 j 07:16	0°♎	
	-11806 Nov 18 j 19:22	0°♏	
	-11805 Jan 06 j 15:11	0°♐	
	-11805 Feb 23 j 08:33	0°♑	
evening set	-11805 Mar 13 j 20:09	11°♑50'58	
asc. node	-11805 Mar 26 j 20:59	20°♑18'02	
max. Earth dist.	-11805 Apr 09 j 04:50	29°♑02'08	2.60752 AU
	-11805 Apr 10 j 15:55	0°♒	
conjunction	-11805 May 01 j 13:35	13°♒55'28	0°21'49
minimum elong	-11805 May 01 j 12:40	13°♒53'56	0°21'19
	-11805 May 25 j 04:32	0°♓	
morning rise	-11805 Jun 19 j 08:11	17°♓32'18	
	-11805 Jul 06 j 20:07	0°♈	
	-11805 Aug 16 j 20:51	0°♉	
	-11805 Sep 25 j 19:05	0°♊	
	-11805 Nov 04 j 08:30	0°♋	
	-11805 Dec 14 j 13:20	0°♌	
	-11804 Jan 25 j 22:55	0°♍	
desc. node	-11804 Feb 13 j 02:43	11°♍57'19	
	-11804 Mar 14 j 08:21	0°♎	
retrograde	-11804 May 20 j 05:18	22°♎12'49	
min. Earth dist.	-11804 Jun 22 j 07:18	14°♎56'07	0.57291 AU
greatest brilliancy	-11804 Jun 27 j 08:12	12°♎58'30	-1.8m
opposition	-11804 Jun 28 j 11:15	12°♎32'09	-5°23'17
direct	-11804 Aug 03 j 17:52	4°♎16'56	
	-11804 Oct 21 j 20:35	0°♏	
	-11804 Dec 15 j 07:15	0°♐	
	-11803 Feb 03 j 00:08	0°♑	
asc. node	-11803 Feb 10 j 21:37	4°♑55'54	
	-11803 Mar 21 j 23:09	0°♒	
evening set	-11803 Apr 24 j 09:01	22°♒22'39	
	-11803 May 05 j 10:53	0°♓	
max. Earth dist.	-11803 May 11 j 09:18	4°♓07'40	2.50963 AU
conjunction	-11803 Jun 15 j 13:01	29°♓11'44	1°05'34
minimum elong	-11803 Jun 15 j 11:14	29°♓08'28	1°05'30
	-11803 Jun 16 j 15:32	0°♈	
	-11803 Jul 26 j 23:17	0°♉	
morning rise	-11803 Aug 09 j 11:45	10°♉17'54	
	-11803 Sep 04 j 01:31	0°♊	
	-11803 Oct 12 j 17:24	0°♋	
	-11803 Nov 20 j 20:21	0°♌	
desc. node	-11803 Dec 30 j 20:10	29°♌35'44	
	-11803 Dec 31 j 09:37	0°♍	
	-11802 Feb 12 j 14:31	0°♎	
	-11802 Apr 01 j 20:18	0°♏	
	-11802 Jun 13 j 00:50	0°♐	
retrograde	-11802 Jun 26 j 22:10	1°♐12'30	
	-11802 Jul 10 j 04:27	30°℞♏	
min. Earth dist.	-11802 Aug 03 j 09:32	22°♏18'20	0.64814 AU
opposition	-11802 Aug 05 j 21:12	21°♏18'16	-4°44'05
greatest brilliancy	-11802 Aug 05 j 12:19	21°♏27'13	-1.4m
direct	-11802 Sep 13 j 19:50	11°♏59'50	
	-11802 Nov 16 j 16:52	0°♐	
asc. node	-11802 Dec 30 j 02:32	22°♐28'20	
	-11801 Jan 12 j 06:16	0°♑	
	-11801 Mar 02 j 05:00	0°♒	
	-11801 Apr 16 j 06:53	0°♓	
	-11801 May 28 j 11:43	0°♈	
evening set	-11801 Jun 14 j 09:51	12°♈30'27	
	-11801 Jul 07 j 13:25	0°♉	
max. Earth dist.	-11801 Jul 16 j 22:15	7°♉11'07	2.39517 AU
conjunction	-11801 Aug 12 j 09:28	27°♉43'26	1°02'37
minimum elong	-11801 Aug 12 j 12:16	27°♉48'55	1°03'08
	-11801 Aug 15 j 07:22	0°♊	
	-11801 Sep 22 j 14:53	0°♋	
morning rise	-11801 Oct 15 j 06:41	17°♋36'58	
	-11801 Oct 31 j 09:34	0°♌	
desc. node	-11801 Nov 17 j 12:29	12°♌58'13	
	-11801 Dec 10 j 11:35	0°♍	
	-11800 Jan 21 j 15:24	0°♎	
	-11800 Mar 06 j 16:24	0°♏	
	-11800 Apr 25 j 05:36	0°♐	
	-11800 Jun 28 j 08:19	0°♑	
retrograde	-11800 Jul 31 j 05:29	5°♑50'22	
	-11800 Aug 30 j 05:11	30°℞♐	
opposition	-11800 Sep 08 j 14:54	26°♐20'48	-2°39'11
greatest brilliancy	-11800 Sep 08 j 18:24	26°♐17'17	-1.4m
min. Earth dist.	-11800 Sep 09 j 21:43	25°♐49'53	0.66268 AU
direct	-11800 Oct 19 j 01:58	16°♐28'49	
asc. node	-11800 Nov 16 j 08:18	20°♐51'27	
	-11800 Dec 11 j 09:47	0°♑	
	-11799 Feb 06 j 12:01	0°♒	
	-11799 Mar 25 j 16:11	0°♓	
	-11799 May 07 j 13:11	0°♈	
	-11799 Jun 16 j 19:26	0°♉	
	-11799 Jul 25 j 14:07	0°♊	
evening set	-11799 Aug 15 j 07:44	16°♊14'12	
	-11799 Sep 01 j 21:43	0°♋	
desc. node	-11799 Oct 04 j 07:56	25°♋07'34	
	-11799 Oct 10 j 16:52	0°♌	
conjunction	-11799 Oct 16 j 18:49	4°♌37'36	-0°09'25
minimum elong	-11799 Oct 16 j 18:03	4°♌36'09	0°08'50
behind sun begin	-11799 Oct 15 j 19:38	3°♌53'37	
behind sun end	-11799 Oct 17 j 16:27	5°♌18'39	
	-11799 Nov 19 j 18:56	0°♍	
max. Earth dist.	-11799 Nov 30 j 00:22	7°♍26'52	2.44998 AU
morning rise	-11799 Dec 17 j 05:22	19°♍46'28	
	-11799 Dec 31 j 18:37	0°♎	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11798 Feb 14 j 01:06	0°♏	
	-11798 Apr 01 j 21:23	0°♐	
	-11798 May 22 j 06:16	0°♑	
	-11798 Jul 21 j 10:02	0°♒	
retrograde	-11798 Sep 06 j 23:09	11°♒01'44	
asc. node	-11798 Oct 04 j 12:17	6°♒09'12	
opposition	-11798 Oct 14 j 18:25	2°♒22'00	0°26'46
greatest brilliancy	-11798 Oct 14 j 20:08	2°♒20'20	-1.6m
min. Earth dist.	-11798 Oct 19 j 16:35	0°♒27'03	0.61586 AU
	-11798 Oct 20 j 20:46	30°℞♑	
direct	-11798 Nov 24 j 10:08	22°♑27'46	
	-11798 Dec 31 j 14:28	0°♒	
	-11797 Feb 28 j 18:05	0°♓	
	-11797 Apr 15 j 08:10	0°♈	
	-11797 May 26 j 15:31	0°♉	
	-11797 Jul 04 j 23:48	0°♊	
	-11797 Aug 12 j 17:47	0°♋	
desc. node	-11797 Aug 22 j 07:23	7°♋22'43	
	-11797 Sep 20 j 22:38	0°♌	
evening set	-11797 Oct 17 j 11:25	19°♌48'34	
	-11797 Oct 31 j 09:35	0°♍	
	-11797 Dec 12 j 15:34	0°♎	
conjunction	-11797 Dec 13 j 02:40	0°♎19'14	-1°06'13
minimum elong	-11797 Dec 13 j 00:41	0°♎15'49	1°06'11
max. Earth dist.	-11796 Jan 12 j 01:59	20°♎46'48	2.56637 AU
	-11796 Jan 25 j 21:19	0°♏	
morning rise	-11796 Feb 04 j 19:18	6°♏33'03	
	-11796 Mar 11 j 23:52	0°♐	
	-11796 Apr 28 j 18:17	0°♑	
	-11796 Jun 17 j 13:05	0°♒	
	-11796 Aug 11 j 08:18	0°♓	
asc. node	-11796 Aug 21 j 11:23	4°♓51'01	
retrograde	-11796 Oct 22 j 10:51	22°♓14'02	
opposition	-11796 Nov 26 j 11:21	14°♓57'58	4°26'52
greatest brilliancy	-11796 Nov 27 j 14:08	14°♓34'08	-2.0m
min. Earth dist.	-11796 Dec 04 j 07:18	12°♓11'24	0.51517 AU
direct	-11795 Jan 04 j 03:04	6°♓05'34	
	-11795 Mar 14 j 07:41	0°♈	
	-11795 Apr 30 j 01:11	0°♉	
	-11795 Jun 10 j 15:30	0°♊	
desc. node	-11795 Jul 09 j 10:30	21°♊28'25	
	-11795 Jul 20 j 19:33	0°♋	
	-11795 Aug 30 j 03:08	0°♌	
	-11795 Oct 10 j 12:17	0°♍	
	-11795 Nov 22 j 11:38	0°♎	
evening set	-11795 Dec 06 j 23:34	9°♎51'19	
	-11794 Jan 06 j 04:03	0°♏	
conjunction	-11794 Jan 27 j 01:19	13°♏41'06	-1°12'32
minimum elong	-11794 Jan 27 j 02:10	13°♏42'30	1°12'57
max. Earth dist.	-11794 Feb 08 j 14:32	21°♏49'51	2.64136 AU
	-11794 Feb 21 j 06:31	0°♐	
morning rise	-11794 Mar 16 j 23:03	15°♐10'43	
	-11794 Apr 09 j 05:30	0°♑	
	-11794 May 26 j 12:57	0°♒	
asc. node	-11794 Jul 09 j 05:06	27°♒32'05	
	-11794 Jul 13 j 03:37	0°♓	
	-11794 Aug 30 j 23:20	0°♈	
	-11794 Oct 23 j 21:02	0°♉	
retrograde	-11794 Dec 27 j 14:48	19°♉31'27	
opposition	-11793 Jan 27 j 19:30	14°♉10'16	6°57'26
greatest brilliancy	-11793 Jan 29 j 02:15	13°♉48'23	-2.7m
min. Earth dist.	-11793 Feb 01 j 20:14	12°♉44'49	0.40285 AU
direct	-11793 Mar 01 j 12:25	8°♉11'13	
	-11793 May 05 j 08:00	0°♊	
desc. node	-11793 May 27 j 17:00	13°♊15'50	
	-11793 Jun 22 j 15:37	0°♋	
	-11793 Aug 05 j 22:34	0°♌	
	-11793 Sep 18 j 19:58	0°♍	
	-11793 Nov 02 j 11:20	0°♎	
	-11793 Dec 18 j 05:03	0°♏	
evening set	-11792 Jan 18 j 20:37	20°♏24'34	
	-11792 Feb 02 j 19:49	0°♐	
max. Earth dist.	-11792 Mar 04 j 18:34	19°♐47'43	2.66403 AU
conjunction	-11792 Mar 07 j 06:54	21°♐24'15	-0°44'40
minimum elong	-11792 Mar 07 j 08:22	21°♐26'36	0°45'19
	-11792 Mar 20 j 16:50	0°♑	
morning rise	-11792 Apr 23 j 06:34	21°♑38'17	
	-11792 May 06 j 03:20	0°♒	
asc. node	-11792 May 25 j 20:24	12°♒54'26	
	-11792 Jun 20 j 15:44	0°♓	
	-11792 Aug 04 j 04:04	0°♈	
	-11792 Sep 16 j 23:25	0°♉	
	-11792 Oct 30 j 19:09	0°♊	
	-11792 Dec 15 j 13:21	0°♋	
	-11791 Feb 12 j 08:48	0°♌	
retrograde	-11791 Mar 12 j 03:38	4°♌55'16	
min. Earth dist.	-11791 Apr 08 j 12:46	0°♌13'39	0.41130 AU
	-11791 Apr 09 j 07:08	30°℞♋	
desc. node	-11791 Apr 13 j 21:37	28°♋36'34	
opposition	-11791 Apr 14 j 22:41	28°♋17'36	-0°04'38
greatest brilliancy	-11791 Apr 14 j 22:16	28°♋17'55	-2.7m
direct	-11791 May 16 j 00:14	22°♋38'43	
	-11791 Jun 21 j 06:17	0°♌	
	-11791 Aug 20 j 17:43	0°♍	
	-11791 Oct 09 j 18:05	0°♎	
	-11791 Nov 27 j 02:03	0°♏	
	-11790 Jan 13 j 23:45	0°♐	
evening set	-11790 Feb 26 j 09:40	27°♐29'07	
	-11790 Mar 02 j 08:07	0°♑	
max. Earth dist.	-11790 Mar 29 j 15:15	17°♑35'44	2.63349 AU
asc. node	-11790 Apr 12 j 13:40	26°♑41'45	
conjunction	-11790 Apr 15 j 14:24	28°♑41'16	0°01'53
minimum elong	-11790 Apr 15 j 14:21	28°♑41'11	0°01'16
behind sun begin	-11790 Apr 14 j 18:32	28°♑08'36	
behind sun end	-11790 Apr 16 j 10:11	29°♑13'47	
	-11790 Apr 17 j 14:14	0°♒	
	-11790 Jun 01 j 06:47	0°♓	
morning rise	-11790 Jun 02 j 06:06	0°♓39'54	
	-11790 Jul 14 j 06:32	0°♈	
	-11790 Aug 24 j 18:32	0°♉	
	-11790 Oct 04 j 06:26	0°♊	
	-11790 Nov 13 j 12:02	0°♋	
	-11790 Dec 24 j 16:07	0°♌	
	-11789 Feb 07 j 04:27	0°♍	
desc. node	-11789 Mar 01 j 20:57	13°♍23'32	
	-11789 Apr 08 j 02:13	0°♎	
retrograde	-11789 May 04 j 14:12	4°♎27'18	
	-11789 May 29 j 20:35	30°℞♍	
min. Earth dist.	-11789 Jun 04 j 16:18	27°♍57'30	0.52932 AU
greatest brilliancy	-11789 Jun 10 j 17:20	25°♍41'25	-2.0m
opposition	-11789 Jun 12 j 00:07	25°♍12'26	-4°57'24
direct	-11789 Jul 16 j 22:26	17°♍32'54	
	-11789 Sep 05 j 04:03	0°♎	
	-11789 Nov 03 j 09:43	0°♏	
	-11789 Dec 24 j 17:43	0°♐	
	-11788 Feb 11 j 10:33	0°♑	
asc. node	-11788 Feb 28 j 12:34	10°♑50'08	
	-11788 Mar 29 j 01:36	0°♒	
evening set	-11788 Apr 07 j 03:52	6°♒01'04	
max. Earth dist.	-11788 Apr 27 j 01:23	19°♒23'30	2.55281 AU

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11788 May 12 j 12:43	0°♓	
conjunction	-11788 May 27 j 13:57	10°♓30'07	0°51'15
minimum elong	-11788 May 27 j 12:02	10°♓26'44	0°50'58
	-11788 Jun 23 j 20:50	0°♈	
morning rise	-11788 Jul 18 j 11:20	18°♈04'07	
	-11788 Aug 03 j 09:59	0°♉	
	-11788 Sep 11 j 18:25	0°♊	
	-11788 Oct 20 j 16:22	0°♋	
	-11788 Nov 29 j 01:46	0°♌	
	-11787 Jan 09 j 01:01	0°♍	
desc. node	-11787 Jan 16 j 16:13	5°♍23'22	
	-11787 Feb 22 j 05:36	0°♎	
	-11787 Apr 15 j 07:51	0°♏	
retrograde	-11787 Jun 12 j 20:35	17°♏04'14	
min. Earth dist.	-11787 Jul 18 j 18:31	8°♏44'10	0.62574 AU
opposition	-11787 Jul 22 j 17:52	7°♏08'51	-5°12'32
greatest brilliancy	-11787 Jul 22 j 01:43	7°♏24'59	-1.5m
	-11787 Aug 13 j 06:12	30°℞♎	
direct	-11787 Aug 29 j 19:08	28°♎11'02	
	-11787 Sep 16 j 11:08	0°♏	
	-11787 Nov 29 j 06:15	0°♐	
asc. node	-11786 Jan 15 j 16:14	26°♐51'40	
	-11786 Jan 20 j 21:56	0°♑	
	-11786 Mar 09 j 20:17	0°♒	
	-11786 Apr 23 j 14:44	0°♓	
evening set	-11786 May 24 j 03:58	21°♓34'18	
	-11786 Jun 04 j 18:40	0°♈	
max. Earth dist.	-11786 Jun 11 j 08:33	4°♈49'41	2.43647 AU
	-11786 Jul 14 j 22:01	0°♉	
conjunction	-11786 Jul 19 j 04:22	3°♉15'18	1°12'49
minimum elong	-11786 Jul 19 j 04:58	3°♉16'27	1°13'09
	-11786 Aug 22 j 18:30	0°♊	
morning rise	-11786 Sep 18 j 00:52	20°♊31'11	
	-11786 Sep 30 j 04:18	0°♋	
	-11786 Nov 08 j 00:47	0°♌	
desc. node	-11786 Dec 04 j 09:09	19°♌49'34	
	-11786 Dec 18 j 05:02	0°♍	
	-11785 Jan 29 j 14:06	0°♎	
	-11785 Mar 16 j 07:53	0°♏	
	-11785 May 07 j 13:47	0°♐	
retrograde	-11785 Jul 18 j 11:38	22°♐43'58	
opposition	-11785 Aug 27 j 05:46	13°♐01'33	-3°35'15
greatest brilliancy	-11785 Aug 27 j 05:54	13°♐01'25	-1.4m
min. Earth dist.	-11785 Aug 27 j 01:22	13°♐05'59	0.66448 AU
direct	-11785 Oct 06 j 06:23	3°♐19'29	
asc. node	-11785 Dec 03 j 22:23	19°♐03'20	
	-11785 Dec 26 j 10:38	0°♑	
	-11784 Feb 16 j 16:18	0°♒	
	-11784 Apr 02 j 17:52	0°♓	
	-11784 May 15 j 06:15	0°♈	
	-11784 Jun 24 j 09:26	0°♉	
evening set	-11784 Jul 20 j 17:25	20°♉19'34	
	-11784 Aug 02 j 02:52	0°♊	
	-11784 Sep 09 j 09:26	0°♋	
conjunction	-11784 Sep 21 j 03:44	9°♋10'39	0°22'35
minimum elong	-11784 Sep 21 j 05:49	9°♋14'40	0°23'13
	-11784 Oct 18 j 03:18	0°♌	
desc. node	-11784 Oct 21 j 02:05	2°♌15'02	
max. Earth dist.	-11784 Oct 29 j 18:05	8°♌49'45	2.40413 AU
morning rise	-11784 Nov 24 j 03:19	27°♌46'23	
	-11784 Nov 27 j 04:04	0°♍	
	-11783 Jan 08 j 03:26	0°♎	
	-11783 Feb 21 j 13:34	0°♏	
	-11783 Apr 10 j 01:03	0°♐	
	-11783 Jun 01 j 18:15	0°♑	
retrograde	-11783 Aug 22 j 15:53	27°♑09'15	
opposition	-11783 Sep 30 j 05:29	18°♑06'41	-0°52'22
greatest brilliancy	-11783 Sep 30 j 08:34	18°♑03'37	-1.5m
min. Earth dist.	-11783 Oct 03 j 18:04	16°♑43'03	0.64154 AU
asc. node	-11783 Oct 21 j 03:11	10°♑46'00	
direct	-11783 Nov 10 j 00:20	8°♑08'20	
	-11782 Jan 18 j 22:21	0°♒	
	-11782 Mar 11 j 04:09	0°♓	
	-11782 Apr 24 j 06:05	0°♈	
	-11782 Jun 03 j 23:47	0°♉	
	-11782 Jul 13 j 00:33	0°♊	
	-11782 Aug 20 j 12:37	0°♋	
desc. node	-11782 Sep 08 j 00:41	14°♋19'48	
evening set	-11782 Sep 24 j 01:02	26°♋36'44	
	-11782 Sep 28 j 11:52	0°♌	
	-11782 Nov 07 j 17:42	0°♍	
conjunction	-11782 Nov 22 j 10:45	10°♍39'11	-0°50'29
minimum elong	-11782 Nov 22 j 08:04	10°♍34'22	0°50'12
	-11782 Dec 19 j 19:33	0°♎	
max. Earth dist.	-11782 Dec 29 j 12:27	6°♎42'55	2.52440 AU
morning rise	-11781 Jan 17 j 22:57	19°♎57'11	
	-11781 Feb 01 j 23:41	0°♏	
	-11781 Mar 20 j 05:52	0°♐	
	-11781 May 07 j 16:02	0°♑	
	-11781 Jun 28 j 12:31	0°♒	
	-11781 Sep 02 j 16:22	0°♓	
asc. node	-11781 Sep 08 j 04:01	1°♓33'33	
retrograde	-11781 Oct 03 j 18:04	5°♓11'42	
	-11781 Nov 01 j 12:05	30°℞♒	
opposition	-11781 Nov 09 j 01:04	27°♒17'32	2°49'00
greatest brilliancy	-11781 Nov 09 j 16:00	27°♒03'37	-1.8m
min. Earth dist.	-11781 Nov 15 j 22:29	24°♒43'40	0.56004 AU
direct	-11781 Dec 18 j 20:39	17°♒49'18	
	-11780 Feb 04 j 08:15	0°♓	
	-11780 Mar 28 j 11:18	0°♈	
	-11780 May 10 j 19:39	0°♉	
	-11780 Jun 20 j 03:23	0°♊	
desc. node	-11780 Jul 26 j 03:41	27°♊25'04	
	-11780 Jul 29 j 13:01	0°♋	
	-11780 Sep 07 j 06:23	0°♌	
	-11780 Oct 18 j 03:58	0°♍	
evening set	-11780 Nov 18 j 06:25	22°♍02'04	
	-11780 Nov 29 j 18:07	0°♎	
conjunction	-11779 Jan 10 j 04:27	28°♎00'37	-1°15'08
minimum elong	-11779 Jan 10 j 04:22	28°♎00'30	1°15'25
	-11779 Jan 13 j 04:28	0°♏	
max. Earth dist.	-11779 Jan 29 j 08:21	10°♏38'26	2.61781 AU
	-11779 Feb 28 j 04:59	0°♐	
morning rise	-11779 Mar 01 j 14:21	0°♐53'35	
	-11779 Apr 16 j 08:40	0°♑	
	-11779 Jun 03 j 08:04	0°♒	
	-11779 Jul 22 j 14:00	0°♓	
asc. node	-11779 Jul 25 j 23:16	2°♓00'29	
	-11779 Sep 13 j 23:13	0°♈	
retrograde	-11779 Nov 28 j 23:24	24°♈35'18	
opposition	-11779 Dec 31 j 11:29	18°♈31'40	6°40'06
greatest brilliancy	-11778 Jan 02 j 03:24	18°♈00'11	-2.4m
min. Earth dist.	-11778 Jan 07 j 23:45	16°♈10'07	0.44156 AU
direct	-11778 Feb 05 j 00:10	11°♈15'47	
	-11778 Apr 04 j 16:43	0°♉	
	-11778 May 22 j 23:17	0°♊	
desc. node	-11778 Jun 13 j 08:13	14°♊45'15	
	-11778 Jul 04 j 21:17	0°♋	
	-11778 Aug 15 j 20:55	0°♌	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11778 Sep 27 j 10:05	0°♍	
	-11778 Nov 10 j 04:55	0°♎	
	-11778 Dec 25 j 09:54	0°♏	
evening set	-11777 Jan 02 j 20:21	5°♏30'27	
	-11777 Feb 09 j 17:54	0°♐	
conjunction	-11777 Feb 21 j 00:28	7°♐13'56	-0°58'25
minimum elong	-11777 Feb 21 j 02:00	7°♐16'24	0°59'00
max. Earth dist.	-11777 Feb 24 j 05:46	9°♐17'47	2.66142 AU
	-11777 Mar 28 j 14:02	0°♑	
morning rise	-11777 Apr 09 j 11:14	7°♑36'47	
	-11777 May 14 j 06:17	0°♒	
asc. node	-11777 Jun 12 j 15:07	19°♒03'29	
	-11777 Jun 29 j 09:02	0°♓	
	-11777 Aug 14 j 00:05	0°♈	
	-11777 Sep 28 j 18:06	0°♉	
	-11777 Nov 15 j 09:03	0°♊	
	-11776 Jan 13 j 23:15	0°♋	
retrograde	-11776 Feb 13 j 20:49	5°♋45'14	
min. Earth dist.	-11776 Mar 14 j 00:22	0°♋55'53	0.38639 AU
opposition	-11776 Mar 16 j 10:51	0°♋15'42	3°27'21
greatest brilliancy	-11776 Mar 16 j 07:33	0°♋17'58	-2.9m
	-11776 Mar 17 j 09:44	30°℞♊	
direct	-11776 Apr 15 j 20:04	25°♊07'57	
desc. node	-11776 Apr 30 j 13:07	26°♊30'33	
	-11776 May 14 j 09:39	0°♋	
	-11776 Jul 15 j 04:37	0°♌	
	-11776 Sep 01 j 21:57	0°♍	
	-11776 Oct 18 j 21:14	0°♎	
	-11776 Dec 04 j 21:10	0°♏	
	-11775 Jan 21 j 03:25	0°♐	
evening set	-11775 Feb 11 j 03:15	13°♐20'10	
	-11775 Mar 09 j 05:38	0°♑	
max. Earth dist.	-11775 Mar 19 j 20:04	6°♑48'41	2.65160 AU
conjunction	-11775 Mar 31 j 03:51	14°♑07'26	-0°17'33
minimum elong	-11775 Mar 31 j 04:34	14°♑08'36	0°18'12
	-11775 Apr 24 j 12:09	0°♒	
asc. node	-11775 Apr 29 j 07:40	3°♒10'05	
morning rise	-11775 May 17 j 05:29	15°♒02'46	
	-11775 Jun 08 j 10:38	0°♓	
	-11775 Jul 21 j 21:35	0°♈	
	-11775 Sep 02 j 01:25	0°♉	
	-11775 Oct 13 j 09:40	0°♊	
	-11775 Nov 23 j 18:06	0°♋	
	-11774 Jan 05 j 19:48	0°♌	
	-11774 Feb 25 j 06:54	0°♍	
desc. node	-11774 Mar 18 j 15:40	8°♍59'23	
retrograde	-11774 Apr 16 j 01:59	14°♍09'28	
min. Earth dist.	-11774 May 15 j 03:50	8°♍29'09	0.48085 AU
greatest brilliancy	-11774 May 21 j 23:32	6°♍04'41	-2.3m
opposition	-11774 May 23 j 03:18	5°♍40'00	-3°51'08
	-11774 Jun 11 j 21:57	30°℞♌	
direct	-11774 Jun 25 j 13:51	28°♌44'07	
	-11774 Jul 09 j 20:49	0°♍	
	-11774 Sep 21 j 14:00	0°♎	
	-11774 Nov 13 j 01:40	0°♏	
	-11773 Jan 01 j 14:44	0°♐	
	-11773 Feb 18 j 15:30	0°♑	
asc. node	-11773 Mar 17 j 04:33	17°♑00'44	
evening set	-11773 Mar 22 j 20:58	20°♑42'12	
	-11773 Apr 06 j 01:37	0°♒	
max. Earth dist.	-11773 Apr 15 j 16:14	6°♒21'56	2.58984 AU
conjunction	-11773 May 11 j 01:59	23°♒29'14	0°33'06
minimum elong	-11773 May 11 j 00:36	23°♒26'53	0°32'40
	-11773 May 20 j 13:46	0°♓	
morning rise	-11773 Jun 29 j 18:32	28°♓18'50	
	-11773 Jul 02 j 02:45	0°♈	
	-11773 Aug 11 j 23:00	0°♉	
	-11773 Sep 20 j 15:43	0°♊	
	-11773 Oct 29 j 22:36	0°♋	
	-11773 Dec 08 j 18:26	0°♌	
	-11772 Jan 19 j 11:13	0°♍	
desc. node	-11772 Feb 03 j 11:44	10°♍14'05	
	-11772 Mar 05 j 14:32	0°♎	
	-11772 May 11 j 21:18	0°♏	
retrograde	-11772 May 29 j 02:36	1°♏54'34	
	-11772 Jun 14 j 13:28	30°℞♎	
min. Earth dist.	-11772 Jul 02 j 06:07	24°♎14'04	0.59417 AU
opposition	-11772 Jul 07 j 16:16	22°♎05'55	-5°25'24
greatest brilliancy	-11772 Jul 06 j 16:47	22°♎29'03	-1.7m
direct	-11772 Aug 13 j 15:40	13°♎33'54	
	-11772 Oct 12 j 16:09	0°♏	
	-11772 Dec 09 j 09:05	0°♐	
	-11771 Jan 28 j 22:39	0°♑	
asc. node	-11771 Feb 01 j 06:54	2°♑03'46	
	-11771 Mar 17 j 05:33	0°♒	
	-11771 Apr 30 j 19:56	0°♓	
evening set	-11771 May 04 j 17:05	2°♓41'32	
max. Earth dist.	-11771 May 20 j 20:16	14°♓01'50	2.48408 AU
	-11771 Jun 12 j 00:50	0°♈	
conjunction	-11771 Jun 27 j 02:05	11°♈04'20	1°10'52
minimum elong	-11771 Jun 27 j 00:50	11°♈02'01	1°10'57
	-11771 Jul 22 j 07:06	0°♉	
morning rise	-11771 Aug 23 j 01:44	24°♉23'59	
	-11771 Aug 30 j 07:03	0°♊	
	-11771 Oct 07 j 20:07	0°♋	
	-11771 Nov 15 j 19:35	0°♌	
desc. node	-11771 Dec 21 j 05:04	26°♌23'44	
	-11771 Dec 26 j 03:58	0°♍	
	-11770 Feb 06 j 22:34	0°♎	
	-11770 Mar 25 j 21:51	0°♏	
	-11770 May 23 j 11:55	0°♐	
retrograde	-11770 Jul 04 j 20:28	9°♐27'56	
min. Earth dist.	-11770 Aug 12 j 03:19	0°♐16'55	0.65674 AU
	-11770 Aug 12 j 20:07	30°℞♏	
opposition	-11770 Aug 13 j 19:20	29°♏36'37	-4°21'49
greatest brilliancy	-11770 Aug 13 j 14:06	29°♏41'53	-1.4m
direct	-11770 Sep 22 j 04:55	20°♏08'34	
	-11770 Nov 05 j 21:26	0°♐	
asc. node	-11770 Dec 20 j 11:44	20°♐51'59	
	-11769 Jan 06 j 03:22	0°♑	
	-11769 Feb 25 j 00:56	0°♒	
	-11769 Apr 11 j 10:41	0°♓	
	-11769 May 23 j 18:37	0°♈	
evening set	-11769 Jun 27 j 07:16	25°♈44'59	
	-11769 Jul 02 j 21:08	0°♉	
	-11769 Aug 10 j 15:02	0°♊	
max. Earth dist.	-11769 Aug 21 j 18:15	8°♊43'08	2.38340 AU
conjunction	-11769 Aug 26 j 19:24	12°♊40'40	0°51'04
minimum elong	-11769 Aug 26 j 22:45	12°♊47'14	0°51'39
	-11769 Sep 17 j 21:57	0°♋	
	-11769 Oct 26 j 15:32	0°♌	
morning rise	-11769 Oct 30 j 11:18	2°♌55'04	
desc. node	-11769 Nov 07 j 23:28	9°♌22'23	
	-11769 Dec 05 j 15:57	0°♍	
	-11768 Jan 16 j 16:27	0°♎	
	-11768 Mar 01 j 09:21	0°♏	
	-11768 Apr 18 j 21:45	0°♐	
	-11768 Jun 15 j 08:52	0°♑	
retrograde	-11768 Aug 08 j 06:13	13°♑49'33	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

opposition	-11768 Sep 16 j 10:10	4°♉28'28	-2°02'24
greatest brilliancy	-11768 Sep 16 j 14:22	4°♉24'16	-1.4m
min. Earth dist.	-11768 Sep 18 j 12:15	3°♉38'27	0.65778 AU
	-11768 Sep 28 j 01:12	30°℞♐	
direct	-11768 Oct 27 j 02:03	24°♐32'45	
asc. node	-11768 Nov 06 j 17:15	25°♐13'40	
	-11768 Nov 27 j 19:56	0°♉	
	-11767 Jan 30 j 23:46	0°♒	
	-11767 Mar 20 j 06:06	0°♓	
	-11767 May 02 j 12:12	0°♈	
	-11767 Jun 11 j 22:10	0°♉	
	-11767 Jul 20 j 18:50	0°♊	
	-11767 Aug 28 j 03:42	0°♋	
evening set	-11767 Aug 29 j 21:10	1°♋20'52	
desc. node	-11767 Sep 24 j 19:05	21°♋25'45	
	-11767 Oct 05 j 23:39	0°♌	
conjunction	-11767 Oct 30 j 14:02	18°♌32'44	-0°26'15
minimum elong	-11767 Oct 30 j 12:03	18°♌29'02	0°25'45
	-11767 Nov 15 j 02:13	0°♍	
max. Earth dist.	-11767 Dec 12 j 09:44	19°♍41'31	2.47708 AU
	-11767 Dec 27 j 01:30	0°♎	
morning rise	-11767 Dec 29 j 06:58	1°♎33'03	
	-11766 Feb 09 j 05:37	0°♏	
	-11766 Mar 27 j 18:29	0°♐	
	-11766 May 16 j 05:06	0°♑	
	-11766 Jul 10 j 21:24	0°♒	
retrograde	-11766 Sep 16 j 05:28	19°♒45'51	
asc. node	-11766 Sep 24 j 20:01	19°♒17'03	
opposition	-11766 Oct 23 j 13:36	11°♒20'35	1°16'26
greatest brilliancy	-11766 Oct 23 j 19:08	11°♒15'15	-1.7m
min. Earth dist.	-11766 Oct 29 j 05:39	9°♒09'57	0.59830 AU
direct	-11766 Dec 03 j 01:15	1°♒32'15	
	-11765 Feb 21 j 03:03	0°♓	
	-11765 Apr 09 j 08:17	0°♈	
	-11765 May 21 j 04:49	0°♉	
	-11765 Jun 29 j 19:40	0°♊	
	-11765 Aug 07 j 17:57	0°♋	
desc. node	-11765 Aug 12 j 19:18	3°♋53'24	
	-11765 Sep 16 j 01:55	0°♌	
	-11765 Oct 26 j 15:27	0°♍	
evening set	-11765 Oct 29 j 21:34	2°♍21'20	
	-11765 Dec 07 j 23:11	0°♎	
conjunction	-11765 Dec 24 j 02:27	11°♎05'15	-1°11'32
minimum elong	-11765 Dec 24 j 01:09	11°♎03'03	1°11'38
max. Earth dist.	-11764 Jan 19 j 04:39	28°♎38'57	2.58676 AU
	-11764 Jan 21 j 05:27	0°♏	
morning rise	-11764 Feb 14 j 11:34	15°♏56'21	
	-11764 Mar 07 j 06:02	0°♐	
	-11764 Apr 23 j 17:27	0°♑	
	-11764 Jun 11 j 16:20	0°♒	
	-11764 Aug 02 j 16:47	0°♓	
asc. node	-11764 Aug 11 j 17:38	4°♓49'57	
	-11764 Oct 10 j 11:09	0°♈	
retrograde	-11764 Nov 04 j 00:18	3°♈23'05	
	-11764 Nov 27 j 05:41	30°℞♓	
opposition	-11764 Dec 08 j 04:25	26°♓31'23	5°21'14
greatest brilliancy	-11764 Dec 09 j 13:49	26°♓02'43	-2.2m
min. Earth dist.	-11764 Dec 16 j 06:08	23°♓45'49	0.48895 AU
direct	-11763 Jan 14 j 23:10	18°♓07'22	
	-11763 Mar 01 j 11:42	0°♈	
	-11763 Apr 22 j 07:16	0°♉	
	-11763 Jun 04 j 05:34	0°♊	
desc. node	-11763 Jun 29 j 23:52	18°♊51'38	
	-11763 Jul 15 j 01:51	0°♋	
	-11763 Aug 24 j 19:43	0°♌	
	-11763 Oct 05 j 12:13	0°♍	
	-11763 Nov 17 j 16:35	0°♎	
evening set	-11763 Dec 17 j 01:02	19°♎45'56	
	-11762 Jan 01 j 12:08	0°♏	
conjunction	-11762 Feb 05 j 07:48	22°♏41'48	-1°08'36
minimum elong	-11762 Feb 05 j 09:01	22°♏43'47	1°09'06
max. Earth dist.	-11762 Feb 14 j 10:49	28°♏35'02	2.65076 AU
	-11762 Feb 16 j 15:37	0°♐	
morning rise	-11762 Mar 25 j 14:33	23°♐39'50	
	-11762 Apr 04 j 12:55	0°♑	
	-11762 May 21 j 13:45	0°♒	
asc. node	-11762 Jun 29 j 10:48	24°♒50'14	
	-11762 Jul 07 j 12:48	0°♓	
	-11762 Aug 23 j 20:58	0°♈	
	-11762 Oct 12 j 08:24	0°♉	
	-11762 Dec 13 j 03:37	0°♊	
retrograde	-11761 Jan 14 j 06:43	5°♊50'40	
opposition	-11761 Feb 14 j 00:08	0°♊41'38	6°15'57
greatest brilliancy	-11761 Feb 14 j 18:20	0°♊29'19	-2.8m
	-11761 Feb 16 j 13:42	30°℞♉	
min. Earth dist.	-11761 Feb 16 j 17:02	29°♉57'46	0.38947 AU
direct	-11761 Mar 17 j 09:08	25°♉16'04	
	-11761 Apr 14 j 02:57	0°♊	
desc. node	-11761 May 18 j 05:10	15°♊03'19	
	-11761 Jun 13 j 04:21	0°♋	
	-11761 Jul 29 j 23:36	0°♌	
	-11761 Sep 13 j 00:30	0°♍	
	-11761 Oct 28 j 06:54	0°♎	
	-11761 Dec 13 j 09:05	0°♏	
evening set	-11760 Jan 27 j 18:53	29°♏06'52	
	-11760 Jan 29 j 04:10	0°♐	
max. Earth dist.	-11760 Mar 10 j 08:30	26°♐18'34	2.66197 AU
conjunction	-11760 Mar 15 j 23:09	29°♐54'22	-0°35'23
minimum elong	-11760 Mar 16 j 00:25	29°♐56'25	0°36'02
	-11760 Mar 16 j 02:39	0°♑	
morning rise	-11760 May 01 j 20:46	0°♒15'06	
	-11760 May 01 j 11:32	0°♒	
asc. node	-11760 May 16 j 02:46	9°♒36'22	
	-11760 Jun 15 j 18:38	0°♓	
	-11760 Jul 29 j 20:46	0°♈	
	-11760 Sep 10 j 23:06	0°♉	
	-11760 Oct 23 j 15:07	0°♊	
	-11760 Dec 06 j 01:36	0°♋	
	-11759 Jan 23 j 03:17	0°♌	
retrograde	-11759 Mar 25 j 21:09	20°♌29'35	
desc. node	-11759 Apr 04 j 08:00	19°♌51'14	
min. Earth dist.	-11759 Apr 22 j 10:15	15°♌32'52	0.43356 AU
opposition	-11759 Apr 29 j 22:45	13°♌07'51	-1°46'33
greatest brilliancy	-11759 Apr 29 j 09:28	13°♌18'36	-2.6m
direct	-11759 May 31 j 21:14	7°♌01'43	
	-11759 Aug 11 j 00:32	0°♍	
	-11759 Oct 03 j 07:03	0°♎	
	-11759 Nov 21 j 17:29	0°♏	
	-11758 Jan 09 j 02:50	0°♐	
	-11758 Feb 25 j 16:28	0°♑	
evening set	-11758 Mar 07 j 05:36	6°♑06'30	
asc. node	-11758 Apr 02 j 21:22	23°♑21'59	
max. Earth dist.	-11758 Apr 04 j 16:58	24°♑33'17	2.62018 AU
	-11758 Apr 12 j 23:59	0°♒	
conjunction	-11758 Apr 24 j 15:52	7°♒43'21	0°13'22
minimum elong	-11758 Apr 24 j 15:19	7°♒42'27	0°12'48
behind sun begin	-11758 Apr 24 j 03:06	7°♒22'08	
behind sun end	-11758 Apr 25 j 03:32	8°♒02'46	
	-11758 May 27 j 15:14	0°♓	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

morning rise	-11758 Jun 11 j 20:26	10°♓30'55	
	-11758 Jul 09 j 11:21	0°♈	
	-11758 Aug 19 j 17:33	0°♉	
	-11758 Sep 28 j 21:47	0°♊	
	-11758 Nov 07 j 17:35	0°♋	
	-11758 Dec 18 j 06:07	0°♌	
	-11757 Jan 30 j 07:08	0°♍	
desc. node	-11757 Feb 20 j 08:12	13°♍23'54	
	-11757 Mar 22 j 05:07	0°♎	
retrograde	-11757 May 14 j 07:08	15°♎16'38	
min. Earth dist.	-11757 Jun 15 j 11:55	8°♎20'59	0.55413 AU
greatest brilliancy	-11757 Jun 21 j 00:39	6°♎13'46	-1.9m
opposition	-11757 Jun 22 j 06:02	5°♎45'33	-5°16'34
	-11757 Jul 09 j 17:31	30°℞♍	
direct	-11757 Jul 27 j 23:06	27°♍45'26	
	-11757 Aug 16 j 11:55	0°♎	
	-11757 Oct 27 j 07:22	0°♏	
	-11757 Dec 19 j 06:19	0°♐	
	-11756 Feb 06 j 12:58	0°♑	
asc. node	-11756 Feb 18 j 20:54	7°♑45'10	
	-11756 Mar 24 j 09:25	0°♒	
evening set	-11756 Apr 16 j 20:55	15°♒37'36	
max. Earth dist.	-11756 May 04 j 21:40	27°♒55'14	2.52965 AU
	-11756 May 07 j 21:56	0°♓	
conjunction	-11756 Jun 07 j 03:56	21°♓18'09	1°00'03
minimum elong	-11756 Jun 07 j 01:59	21°♓14'38	0°59'55
	-11756 Jun 19 j 05:14	0°♈	
	-11756 Jul 29 j 16:07	0°♉	
morning rise	-11756 Jul 30 j 14:59	0°♉43'12	
	-11756 Sep 06 j 21:26	0°♊	
	-11756 Oct 15 j 15:56	0°♋	
	-11756 Nov 23 j 20:51	0°♌	
	-11755 Jan 03 j 12:45	0°♍	
desc. node	-11755 Jan 07 j 02:34	2°♍33'33	
	-11755 Feb 16 j 00:13	0°♎	
	-11755 Apr 06 j 08:04	0°♏	
retrograde	-11755 Jun 21 j 00:24	25°♏42'54	
min. Earth dist.	-11755 Jul 27 j 19:52	17°♏03'35	0.63924 AU
opposition	-11755 Jul 30 j 23:44	15°♏47'27	-4°57'44
greatest brilliancy	-11755 Jul 30 j 11:44	15°♏59'30	-1.5m
direct	-11755 Sep 07 j 13:51	6°♏37'40	
	-11755 Nov 21 j 15:12	0°♐	
asc. node	-11754 Jan 06 j 01:05	24°♐33'52	
	-11754 Jan 15 j 08:16	0°♑	
	-11754 Mar 04 j 21:18	0°♒	
	-11754 Apr 18 j 21:10	0°♓	
	-11754 May 31 j 02:53	0°♈	
evening set	-11754 Jun 04 j 23:13	3°♈33'07	
max. Earth dist.	-11754 Jun 28 j 14:40	21°♈09'59	2.41192 AU
	-11754 Jul 10 j 06:04	0°♉	
conjunction	-11754 Aug 01 j 14:32	17°♉11'45	1°08'39
minimum elong	-11754 Aug 01 j 16:28	17°♉15'28	1°09'06
	-11754 Aug 18 j 01:26	0°♊	
	-11754 Sep 25 j 09:50	0°♋	
morning rise	-11754 Oct 03 j 08:29	6°♋11'43	
	-11754 Nov 03 j 04:35	0°♌	
desc. node	-11754 Nov 24 j 18:44	16°♌19'13	
	-11754 Dec 13 j 06:23	0°♍	
	-11753 Jan 24 j 10:45	0°♎	
	-11753 Mar 10 j 15:54	0°♏	
	-11753 Apr 30 j 00:07	0°♐	
	-11753 Jul 15 j 15:22	0°♑	
retrograde	-11753 Jul 26 j 09:01	0°♑42'41	
	-11753 Aug 05 j 17:14	30°℞♐	
opposition	-11753 Sep 03 j 23:16	21°♐06'57	-3°03'40
greatest brilliancy	-11753 Sep 04 j 01:32	21°♐04'41	-1.4m
min. Earth dist.	-11753 Sep 04 j 14:22	20°♐51'48	0.66467 AU
direct	-11753 Oct 14 j 06:49	11°♐18'56	
asc. node	-11753 Nov 24 j 06:45	19°♐51'11	
	-11753 Dec 18 j 03:35	0°♑	
	-11752 Feb 10 j 21:11	0°♒	
	-11752 Mar 28 j 14:43	0°♓	
	-11752 May 10 j 09:18	0°♈	
	-11752 Jun 19 j 15:05	0°♉	
	-11752 Jul 28 j 09:34	0°♊	
evening set	-11752 Aug 04 j 01:59	5°♊13'49	
	-11752 Sep 04 j 16:34	0°♋	
conjunction	-11752 Oct 05 j 18:54	24°♋08'22	0°04'26
minimum elong	-11752 Oct 05 j 19:22	24°♋09'16	0°05'03
behind sun begin	-11752 Oct 04 j 17:38	23°♋19'47	
behind sun end	-11752 Oct 06 j 21:07	24°♋58'43	
desc. node	-11752 Oct 11 j 13:41	28°♋34'34	
	-11752 Oct 13 j 10:21	0°♌	
max. Earth dist.	-11752 Nov 18 j 08:20	26°♌59'16	2.42826 AU
	-11752 Nov 22 j 10:36	0°♍	
morning rise	-11752 Dec 07 j 12:50	10°♍58'42	
	-11751 Jan 03 j 08:40	0°♎	
	-11751 Feb 16 j 14:50	0°♏	
	-11751 Apr 04 j 15:11	0°♐	
	-11751 May 25 j 17:51	0°♑	
	-11751 Jul 30 j 08:40	0°♒	
retrograde	-11751 Aug 31 j 07:23	5°♒27'53	
	-11751 Sep 29 j 12:56	30°℞♑	
opposition	-11751 Oct 08 j 11:55	26°♑37'21	-0°07'37
greatest brilliancy	-11751 Oct 08 j 12:35	26°♑36'42	-1.6m
asc. node	-11751 Oct 11 j 11:17	25°♑27'19	
min. Earth dist.	-11751 Oct 12 j 19:25	24°♑55'57	0.62844 AU
direct	-11751 Nov 18 j 06:31	16°♑40'25	
	-11750 Jan 08 j 22:32	0°♒	
	-11750 Mar 04 j 19:26	0°♓	
	-11750 Apr 18 j 17:40	0°♈	
	-11750 May 29 j 19:34	0°♉	
	-11750 Jul 08 j 00:42	0°♊	
	-11750 Aug 15 j 15:54	0°♋	
desc. node	-11750 Aug 29 j 12:22	10°♋42'49	
	-11750 Sep 23 j 17:27	0°♌	
evening set	-11750 Oct 07 j 13:25	10°♌25'26	
	-11750 Nov 03 j 00:58	0°♍	
conjunction	-11750 Dec 04 j 10:37	22°♍30'07	-1°00'29
minimum elong	-11750 Dec 04 j 08:13	22°♍25'53	1°00'20
	-11750 Dec 15 j 03:46	0°♎	
max. Earth dist.	-11749 Jan 06 j 17:10	15°♎30'07	2.54830 AU
morning rise	-11749 Jan 28 j 08:06	0°♏01'20	
	-11749 Jan 28 j 07:18	0°♏	
	-11749 Mar 15 j 10:03	0°♐	
	-11749 May 02 j 09:36	0°♑	
	-11749 Jun 21 j 21:21	0°♒	
	-11749 Aug 18 j 15:26	0°♓	
asc. node	-11749 Aug 29 j 11:30	4°♓32'50	
retrograde	-11749 Oct 14 j 15:32	15°♓04'59	
opposition	-11749 Nov 19 j 06:34	7°♓31'04	3°44'31
greatest brilliancy	-11749 Nov 20 j 04:06	7°♓11'28	-1.9m
min. Earth dist.	-11749 Nov 26 j 18:25	4°♓47'52	0.53584 AU
	-11749 Dec 12 j 22:59	30°℞♒	
direct	-11749 Dec 28 j 13:10	28°♒20'18	
	-11748 Jan 13 j 15:04	0°♓	
	-11748 Mar 20 j 10:31	0°♈	
	-11748 May 04 j 09:55	0°♉	
	-11748 Jun 14 j 09:02	0°♊	
desc. node	-11748 Jul 16 j 14:32	24°♊17'22	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11748 Jul 24 j 03:56	0°♋	
	-11748 Sep 02 j 03:59	0°♌	
	-11748 Oct 13 j 06:40	0°♍	
	-11748 Nov 25 j 00:40	0°♎	
evening set	-11748 Nov 29 j 03:35	2°♎49'40	
	-11747 Jan 08 j 13:08	0°♏	
conjunction	-11747 Jan 19 j 23:38	7°♏32'04	-1°14'17
minimum elong	-11747 Jan 20 j 00:09	7°♏32'55	1°14'39
max. Earth dist.	-11747 Feb 04 j 10:40	17°♏37'49	2.63185 AU
	-11747 Feb 23 j 13:48	0°♐	
morning rise	-11747 Mar 10 j 12:06	9°♐34'38	
	-11747 Apr 11 j 14:12	0°♑	
	-11747 May 29 j 03:44	0°♒	
asc. node	-11747 Jul 16 j 05:45	29°♒54'30	
	-11747 Jul 16 j 09:20	0°♓	
	-11747 Sep 04 j 17:50	0°♈	
	-11747 Nov 04 j 08:15	0°♉	
retrograde	-11747 Dec 14 j 14:49	8°♉33'00	
opposition	-11746 Jan 15 j 08:36	2°♉54'37	7°00'55
greatest brilliancy	-11746 Jan 16 j 21:53	2°♉26'49	-2.6m
min. Earth dist.	-11746 Jan 21 j 18:59	1°♉00'12	0.41841 AU
	-11746 Jan 25 j 08:30	30°♑℞	
direct	-11746 Feb 18 j 07:45	26°♈21'50	
	-11746 Mar 14 j 02:29	0°♉	
	-11746 May 13 j 13:55	0°♊	
desc. node	-11746 Jun 03 j 20:41	13°♊46'21	
	-11746 Jun 27 j 18:29	0°♋	
	-11746 Aug 09 j 20:00	0°♌	
	-11746 Sep 22 j 00:19	0°♍	
	-11746 Nov 05 j 04:53	0°♎	
	-11746 Dec 20 j 15:45	0°♏	
evening set	-11745 Jan 12 j 03:33	14°♏34'59	
	-11745 Feb 05 j 02:52	0°♐	
conjunction	-11745 Mar 01 j 20:29	15°♐50'16	-0°50'49
minimum elong	-11745 Mar 01 j 22:02	15°♐52'45	0°51'26
max. Earth dist.	-11745 Mar 01 j 19:55	15°♐49'22	2.66401 AU
	-11745 Mar 23 j 23:23	0°♑	
morning rise	-11745 Apr 17 j 23:43	16°♑04'24	
	-11745 May 09 j 12:27	0°♒	
asc. node	-11745 Jun 02 j 21:10	15°♒53'38	
	-11745 Jun 24 j 07:16	0°♓	
	-11745 Aug 08 j 06:41	0°♈	
	-11745 Sep 21 j 19:59	0°♉	
	-11745 Nov 05 j 22:35	0°♊	
	-11745 Dec 24 j 18:23	0°♋	
retrograde	-11744 Feb 29 j 18:46	22°♋52'54	
min. Earth dist.	-11744 Mar 28 j 13:35	18°♋14'31	0.39711 AU
opposition	-11744 Apr 02 j 11:59	16°♋49'32	1°25'23
greatest brilliancy	-11744 Apr 02 j 07:22	16°♋52'50	-2.8m
desc. node	-11744 Apr 21 j 02:12	12°♋24'42	
direct	-11744 May 03 j 00:47	11°♋28'54	
	-11744 Jul 03 j 11:37	0°♌	
	-11744 Aug 25 j 16:23	0°♍	
	-11744 Oct 13 j 02:57	0°♎	
	-11744 Nov 29 j 18:50	0°♏	
	-11743 Jan 16 j 09:03	0°♐	
evening set	-11743 Feb 19 j 22:09	21°♐53'41	
	-11743 Mar 04 j 14:54	0°♑	
max. Earth dist.	-11743 Mar 25 j 14:21	13°♑29'50	2.64267 AU
conjunction	-11743 Apr 08 j 23:39	22°♑50'46	-0°06'29
minimum elong	-11743 Apr 08 j 23:57	22°♑51'14	0°07'07
behind sun begin	-11743 Apr 08 j 05:58	22°♑21'55	
behind sun end	-11743 Apr 09 j 17:55	23°♑20'34	
asc. node	-11743 Apr 19 j 14:08	29°♑47'34	
	-11743 Apr 19 j 21:42	0°♒	
morning rise	-11743 May 26 j 07:20	24°♒16'25	
	-11743 Jun 03 j 17:42	0°♓	
	-11743 Jul 16 j 22:58	0°♈	
	-11743 Aug 27 j 18:11	0°♉	
	-11743 Oct 07 j 14:27	0°♊	
	-11743 Nov 17 j 06:13	0°♋	
	-11743 Dec 29 j 01:05	0°♌	
	-11742 Feb 13 j 03:38	0°♍	
desc. node	-11742 Mar 09 j 02:26	12°♍55'40	
retrograde	-11742 Apr 26 j 21:34	26°♍28'43	
min. Earth dist.	-11742 May 27 j 01:54	20°♍21'26	0.50793 AU
opposition	-11742 Jun 03 j 19:25	17°♍31'22	-4°35'15
greatest brilliancy	-11742 Jun 02 j 12:38	17°♍59'41	-2.1m
direct	-11742 Jul 08 j 01:52	10°♍10'30	
	-11742 Sep 12 j 07:21	0°♎	
	-11742 Nov 06 j 22:41	0°♏	
	-11742 Dec 27 j 10:31	0°♐	
	-11741 Feb 13 j 20:37	0°♑	
asc. node	-11741 Mar 07 j 12:08	13°♑47'21	
evening set	-11741 Apr 01 j 03:06	29°♑48'10	
	-11741 Apr 01 j 10:18	0°♒	
max. Earth dist.	-11741 Apr 22 j 14:44	14°♒05'43	2.57032 AU
	-11741 May 15 j 23:02	0°♓	
conjunction	-11741 May 20 j 22:12	3°♓26'09	0°43'50
minimum elong	-11741 May 20 j 20:27	3°♓23'08	0°43'29
	-11741 Jun 27 j 10:21	0°♈	
morning rise	-11741 Jul 10 j 17:04	9°♈39'36	
	-11741 Aug 07 j 03:27	0°♉	
	-11741 Sep 15 j 15:44	0°♊	
	-11741 Oct 24 j 17:21	0°♋	
	-11741 Dec 03 j 06:13	0°♌	
	-11740 Jan 13 j 10:30	0°♍	
desc. node	-11740 Jan 24 j 22:12	8°♍00'43	
	-11740 Feb 27 j 04:45	0°♎	
	-11740 Apr 22 j 07:17	0°♏	
retrograde	-11740 Jun 06 j 16:37	11°♏10'46	
min. Earth dist.	-11740 Jul 11 j 20:24	3°♏07'54	0.61270 AU
opposition	-11740 Jul 16 j 11:41	1°♏17'21	-5°20'20
greatest brilliancy	-11740 Jul 15 j 16:14	1°♏36'40	-1.6m
	-11740 Jul 19 j 18:20	30°♑℞♎	
direct	-11740 Aug 23 j 02:32	22°♎30'18	
	-11740 Sep 30 j 02:43	0°♏	
	-11740 Dec 02 j 23:37	0°♐	
asc. node	-11739 Jan 22 j 14:55	29°♐20'46	
	-11739 Jan 23 j 16:46	0°♑	
	-11739 Mar 12 j 09:14	0°♒	
	-11739 Apr 26 j 03:11	0°♓	
evening set	-11739 May 15 j 14:28	13°♓37'40	
max. Earth dist.	-11739 Jun 01 j 01:52	25°♓25'57	2.45772 AU
	-11739 Jun 07 j 08:44	0°♈	
conjunction	-11739 Jul 09 j 08:40	23°♈45'36	1°13'18
minimum elong	-11739 Jul 09 j 08:21	23°♈45'01	1°13'32
	-11739 Jul 17 j 14:20	0°♉	
	-11739 Aug 25 j 12:44	0°♊	
morning rise	-11739 Sep 06 j 11:32	9°♊18'40	
	-11739 Oct 02 j 23:57	0°♋	
	-11739 Nov 10 j 21:08	0°♌	
desc. node	-11739 Dec 11 j 15:37	23°♌05'17	
	-11739 Dec 21 j 01:47	0°♍	
	-11738 Feb 01 j 12:53	0°♎	
	-11738 Mar 19 j 14:45	0°♏	
	-11738 May 12 j 13:38	0°♐	
retrograde	-11738 Jul 12 j 16:54	17°♐33'44	
opposition	-11738 Aug 21 j 14:08	7°♐46'51	-3°55'57

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

min. Earth dist.	-11738 Aug 20 j 17:59	8°♐07'09	0.66219 AU
greatest brilliancy	-11738 Aug 21 j 12:08	7°♐48'52	-1.4m
	-11738 Sep 13 j 16:22	30°♑
direct	-11738 Sep 30 j 09:06	28°♏10'28
	-11738 Oct 18 j 03:19	0°♐
asc. node	-11738 Dec 10 j 20:56	19°♐52'53
	-11738 Dec 30 j 11:36	0°♑
	-11737 Feb 19 j 16:13	0°♒
	-11737 Apr 06 j 12:04	0°♓
	-11737 May 18 j 23:36	0°♈
	-11737 Jun 28 j 03:20	0°♉
evening set	-11737 Jul 10 j 22:12	9°♉48'58
	-11737 Aug 05 j 21:14	0°♊
conjunction	-11737 Sep 10 j 16:36	28°♊04'03	0°35'51
minimum elong	-11737 Sep 10 j 19:34	28°♊09'52	0°36'28
	-11737 Sep 13 j 03:53	0°♋
max. Earth dist.	-11737 Oct 05 j 19:15	17°♋37'44	2.38890 AU
	-11737 Oct 21 j 21:03	0°♌
desc. node	-11737 Oct 29 j 08:30	5°♌42'06
morning rise	-11737 Nov 14 j 06:55	17°♌43'02
	-11737 Nov 30 j 20:33	0°♍
	-11736 Jan 11 j 19:01	0°♎
	-11736 Feb 25 j 05:58	0°♏
	-11736 Apr 13 j 00:47	0°♐
	-11736 Jun 06 j 03:33	0°♑
retrograde	-11736 Aug 16 j 10:34	21°♑51'40
opposition	-11736 Sep 24 j 07:38	12°♑40'15	-1°22'49
greatest brilliancy	-11736 Sep 24 j 11:33	12°♑36'21	-1.4m
min. Earth dist.	-11736 Sep 27 j 05:02	11°♑31'22	0.65007 AU
asc. node	-11736 Oct 28 j 02:25	3°♑01'26
direct	-11736 Nov 04 j 02:28	2°♑42'23
	-11735 Jan 23 j 17:45	0°♒
	-11735 Mar 14 j 14:26	0°♓
	-11735 Apr 27 j 08:23	0°♈
	-11735 Jun 06 j 23:24	0°♉
	-11735 Jul 15 j 22:26	0°♊
	-11735 Aug 23 j 08:45	0°♋
evening set	-11735 Sep 13 j 06:52	16°♋13'58
desc. node	-11735 Sep 15 j 05:46	17°♋44'24
	-11735 Oct 01 j 05:44	0°♌
	-11735 Nov 10 j 08:52	0°♍
conjunction	-11735 Nov 12 j 20:23	1°♍48'46	-0°41'03
minimum elong	-11735 Nov 12 j 17:46	1°♍44'00	0°40'41
	-11735 Dec 22 j 08:17	0°♎
max. Earth dist.	-11735 Dec 22 j 21:17	0°♎22'38	2.50378 AU
morning rise	-11734 Jan 09 j 18:22	12°♎42'41
	-11734 Feb 04 j 10:53	0°♏
	-11734 Mar 22 j 18:29	0°♐
	-11734 May 10 j 12:36	0°♑
	-11734 Jul 02 j 14:21	0°♒
asc. node	-11734 Sep 15 j 04:03	28°♒07'33
retrograde	-11734 Sep 25 j 23:42	28°♒49'55
opposition	-11734 Nov 01 j 19:03	20°♒41'04	2°08'35
greatest brilliancy	-11734 Nov 02 j 05:33	20°♒31'09	-1.8m
min. Earth dist.	-11734 Nov 08 j 04:27	18°♒16'14	0.57820 AU
direct	-11734 Dec 11 j 23:47	11°♒02'11
	-11733 Feb 11 j 21:56	0°♓
	-11733 Apr 02 j 20:39	0°♈
	-11733 May 15 j 12:22	0°♉
	-11733 Jun 24 j 12:09	0°♊
	-11733 Aug 02 j 16:07	0°♋
desc. node	-11733 Aug 03 j 08:02	0°♋30'29
	-11733 Sep 11 j 04:19	0°♌
	-11733 Oct 21 j 20:55	0°♍
evening set	-11733 Nov 10 j 17:27	14°♍12'34
	-11733 Dec 03 j 06:51	0°♎
conjunction	-11732 Jan 03 j 15:07	21°♎21'18	-1°14'24
minimum elong	-11732 Jan 03 j 14:32	21°♎20'19	1°14'37
	-11732 Jan 16 j 13:57	0°♏
max. Earth dist.	-11732 Jan 25 j 22:41	6°♏11'27	2.60480 AU
morning rise	-11732 Feb 23 j 20:38	25°♏02'24
	-11732 Mar 02 j 13:28	0°♐
	-11732 Apr 18 j 19:30	0°♑
	-11732 Jun 06 j 03:32	0°♒
	-11732 Jul 26 j 08:58	0°♓
asc. node	-11732 Aug 02 j 00:06	3°♓47'56
	-11732 Sep 21 j 08:56	0°♈
retrograde	-11732 Nov 17 j 16:02	15°♈23'01
opposition	-11732 Dec 20 j 21:40	8°♈57'32	6°09'49
greatest brilliancy	-11732 Dec 22 j 12:03	8°♈25'57	-2.3m
min. Earth dist.	-11732 Dec 28 j 20:05	6°♈21'32	0.46236 AU
direct	-11731 Jan 26 j 12:42	1°♈08'38
	-11731 Apr 12 j 22:05	0°♉
	-11731 May 28 j 03:40	0°♊
desc. node	-11731 Jun 20 j 12:33	16°♊38'35
	-11731 Jul 08 j 23:21	0°♋
	-11731 Aug 19 j 07:35	0°♌
	-11731 Sep 30 j 09:37	0°♍
	-11731 Nov 12 j 20:32	0°♎
evening set	-11731 Dec 26 j 18:55	29°♎18'51
	-11731 Dec 27 j 19:58	0°♏
	-11730 Feb 12 j 01:11	0°♐
conjunction	-11730 Feb 14 j 09:54	1°♐31'09	-1°03'11
minimum elong	-11730 Feb 14 j 11:22	1°♐33'31	1°03'44
max. Earth dist.	-11730 Feb 20 j 04:32	5°♐13'49	2.65765 AU
	-11730 Mar 30 j 21:25	0°♑
morning rise	-11730 Apr 03 j 04:30	2°♑06'23
	-11730 May 16 j 17:15	0°♒
asc. node	-11730 Jun 19 j 16:12	21°♒53'54
	-11730 Jul 02 j 04:35	0°♓
	-11730 Aug 17 j 11:34	0°♈
	-11730 Oct 03 j 12:42	0°♉
	-11730 Nov 23 j 11:11	0°♊
retrograde	-11729 Jan 31 j 18:23	22°♊55'43
opposition	-11729 Mar 03 j 17:08	17°♊42'48	4°53'10
greatest brilliancy	-11729 Mar 03 j 21:35	17°♊39'48	-2.9m
min. Earth dist.	-11729 Mar 03 j 14:09	17°♊44'49	0.38398 AU
direct	-11729 Apr 03 j 08:05	12°♊34'24
desc. node	-11729 May 08 j 17:35	19°♊54'23
	-11729 May 31 j 07:03	0°♋
	-11729 Jul 22 j 02:11	0°♌
	-11729 Sep 06 j 20:02	0°♍
	-11729 Oct 22 j 22:25	0°♎
	-11729 Dec 08 j 11:12	0°♏
	-11728 Jan 24 j 11:55	0°♐
evening set	-11728 Feb 05 j 15:25	7°♐43'56
	-11728 Mar 11 j 12:23	0°♑
max. Earth dist.	-11728 Mar 15 j 23:15	2°♑51'24	2.65725 AU
conjunction	-11728 Mar 24 j 16:36	8°♑28'07	-0°25'17
minimum elong	-11728 Mar 24 j 17:35	8°♑29'43	0°25'56
	-11728 Apr 26 j 20:14	0°♒
asc. node	-11728 May 06 j 08:36	6°♒15'10
morning rise	-11728 May 10 j 15:14	9°♒04'29
	-11728 Jun 10 j 23:07	0°♓
	-11728 Jul 24 j 17:00	0°♈
	-11728 Sep 05 j 06:39	0°♉
	-11728 Oct 17 j 03:22	0°♊
	-11728 Nov 28 j 05:32	0°♋
	-11727 Jan 11 j 17:34	0°♌

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11727 Mar 11 j 05:19	0°♍			-11722 Apr 14 j 01:53	0°♓		
desc. node	-11727 Mar 25 j 20:38	3°♍40'05			-11722 May 26 j 10:02	0°♈		
retrograde	-11727 Apr 07 j 06:45	4°♍44'19		evening set	-11722 Jun 17 j 08:11	16°♈12'42		
	-11727 May 03 j 19:15	30°℞♌			-11722 Jul 05 j 13:51	0°♉		
min. Earth dist.	-11727 May 05 j 14:14	29°♌25'01	0.45893 AU	max. Earth dist.	-11722 Jul 22 j 03:57	12°♉44'23	2.39213 AU	
opposition	-11727 May 13 j 13:04	26°♌42'34	-3°05'45		-11722 Aug 13 j 08:47	0°♊		
greatest brilliancy	-11727 May 12 j 13:54	27°♌02'24	-2.4m					
direct	-11727 Jun 15 j 06:46	20°♌08'39		conjunction	-11722 Aug 15 j 14:35	1°♊45'09	1°00'17	
	-11727 Jul 28 j 11:09	0°♍		minimum elong	-11722 Aug 15 j 17:34	1°♊50'59	1°00'50	
	-11727 Sep 26 j 04:54	0°♎			-11722 Sep 20 j 16:09	0°♋		
	-11727 Nov 16 j 03:53	0°♏		morning rise	-11722 Oct 18 j 17:40	21°♋48'41		
	-11726 Jan 04 j 03:59	0°♐			-11722 Oct 29 j 09:35	0°♌		
	-11726 Feb 21 j 00:02	0°♑		desc. node	-11722 Nov 15 j 05:36	12°♌46'53		
evening set	-11726 Mar 16 j 03:52	14°♑50'28			-11722 Dec 08 j 09:17	0°♍		
asc. node	-11726 Mar 24 j 04:34	20°♑02'41			-11721 Jan 19 j 09:38	0°♎		
	-11726 Apr 08 j 09:38	0°♒			-11721 Mar 05 j 05:10	0°♏		
max. Earth dist.	-11726 Apr 10 j 22:52	1°♒40'56	2.60429 AU		-11721 Apr 23 j 06:36	0°♐		
					-11721 Jun 23 j 06:37	0°♑		
conjunction	-11726 May 03 j 23:11	17°♒02'12	0°24'50	retrograde	-11721 Aug 03 j 07:42	8°♑41'10		
minimum elong	-11726 May 03 j 22:09	17°♒00'28	0°24'20		-11721 Sep 09 j 18:19	30°℞♐		
	-11726 May 23 j 00:07	0°♓		opposition	-11721 Sep 11 j 17:17	29°♐13'04	-2°29'04	
morning rise	-11726 Jun 21 j 21:38	20°♓52'06		greatest brilliancy	-11721 Sep 11 j 20:56	29°♐09'25	-1.4m	
	-11726 Jul 04 j 16:56	0°♈		min. Earth dist.	-11721 Sep 13 j 04:02	28°♐38'17	0.66212 AU	
	-11726 Aug 14 j 18:10	0°♉		direct	-11721 Oct 22 j 06:41	19°♐20'08		
	-11726 Sep 23 j 16:00	0°♊		asc. node	-11721 Nov 14 j 15:50	22°♐25'40		
	-11726 Nov 02 j 04:00	0°♋			-11721 Dec 07 j 15:50	0°♑		
	-11726 Dec 12 j 05:44	0°♌			-11720 Feb 04 j 16:42	0°♒		
	-11725 Jan 23 j 08:20	0°♍			-11720 Mar 23 j 07:36	0°♓		
desc. node	-11725 Feb 10 j 17:55	12°♍15'33			-11720 May 05 j 09:41	0°♈		
	-11725 Mar 11 j 19:17	0°♎			-11720 Jun 14 j 18:46	0°♉		
retrograde	-11725 May 23 j 12:21	25°♎24'38			-11720 Jul 23 j 14:50	0°♊		
min. Earth dist.	-11725 Jun 25 j 19:30	18°♎03'49	0.57720 AU	evening set	-11720 Aug 18 j 15:35	20°♊22'39		
opposition	-11725 Jul 01 j 20:41	15°♎42'25	-5°25'02		-11720 Aug 30 j 22:42	0°♋		
greatest brilliancy	-11725 Jun 30 j 18:15	16°♎08'12	-1.7m	desc. node	-11720 Oct 02 j 00:49	24°♋53'08		
direct	-11725 Aug 07 j 07:45	7°♎23'50			-11720 Oct 08 j 17:05	0°♌		
	-11725 Oct 19 j 04:50	0°♏						
	-11725 Dec 13 j 13:05	0°♐		conjunction	-11720 Oct 20 j 00:43	8°♌36'19	-0°13'32	
	-11724 Feb 01 j 13:05	0°♑		minimum elong	-11720 Oct 19 j 23:36	8°♌34'13	0°12'58	
asc. node	-11724 Feb 09 j 05:51	4°♑47'17		behind sun begin	-11720 Oct 19 j 07:45	8°♌04'13		
	-11724 Mar 19 j 16:15	0°♒		behind sun end	-11720 Oct 20 j 15:28	9°♌04'12		
evening set	-11724 Apr 26 j 21:08	25°♒35'04			-11720 Nov 17 j 17:28	0°♍		
	-11724 May 03 j 07:06	0°♓		max. Earth dist.	-11720 Dec 03 j 08:03	11°♍21'15	2.45493 AU	
max. Earth dist.	-11724 May 13 j 11:41	7°♓05'22	2.50498 AU	morning rise	-11720 Dec 20 j 04:21	23°♍22'36		
	-11724 Jun 14 j 14:03	0°♈			-11720 Dec 29 j 14:43	0°♎		
					-11719 Feb 11 j 17:57	0°♏		
conjunction	-11724 Jun 18 j 05:50	2°♈39'57	1°07'04		-11719 Mar 30 j 09:37	0°♐		
minimum elong	-11724 Jun 18 j 04:08	2°♈36'51	1°07'04		-11719 May 19 j 08:53	0°♑		
	-11724 Jul 24 j 23:09	0°♉			-11719 Jul 16 j 15:29	0°♒		
morning rise	-11724 Aug 12 j 13:31	14°♉10'59		retrograde	-11719 Sep 09 j 05:58	13°♒58'52		
	-11724 Sep 02 j 01:41	0°♊		asc. node	-11719 Oct 01 j 19:17	10°♒41'11		
	-11724 Oct 10 j 16:50	0°♋		opposition	-11719 Oct 17 j 00:24	5°♒21'37	0°39'50	
	-11724 Nov 18 j 17:55	0°♌		greatest brilliancy	-11719 Oct 17 j 02:59	5°♒19'07	-1.6m	
desc. node	-11724 Dec 28 j 11:14	29°♌29'47		min. Earth dist.	-11719 Oct 22 j 02:38	3°♒23'10	0.61297 AU	
	-11724 Dec 29 j 03:55	0°♍			-11719 Oct 31 j 11:21	30°℞♑		
	-11723 Feb 10 j 02:57	0°♎		direct	-11719 Nov 26 j 16:50	25°♑28'10		
	-11723 Mar 29 j 18:24	0°♏			-11719 Dec 24 j 18:26	0°♒		
	-11723 Jun 02 j 09:48	0°♐			-11718 Feb 25 j 20:09	0°♓		
retrograde	-11723 Jun 29 j 00:52	4°♐07'54			-11718 Apr 12 j 23:32	0°♈		
	-11723 Jul 23 j 18:18	30°℞♏			-11718 May 24 j 12:08	0°♉		
min. Earth dist.	-11723 Aug 05 j 16:58	25°♏10'20	0.65019 AU		-11718 Jul 02 j 22:39	0°♊		
opposition	-11723 Aug 08 j 00:50	24°♏14'09	-4°38'21		-11718 Aug 10 j 17:15	0°♋		
greatest brilliancy	-11723 Aug 07 j 16:47	24°♏22'14	-1.4m	desc. node	-11718 Aug 19 j 23:52	7°♋09'21		
direct	-11723 Sep 16 j 02:44	14°♏53'35			-11718 Sep 18 j 21:34	0°♌		
	-11723 Nov 12 j 12:24	0°♐		evening set	-11718 Oct 20 j 11:40	23°♌33'18		
asc. node	-11723 Dec 27 j 10:16	22°♐38'09			-11718 Oct 29 j 07:13	0°♍		
	-11722 Jan 09 j 11:00	0°♑			-11718 Dec 10 j 11:26	0°♎		
	-11722 Feb 27 j 19:00	0°♒						

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11718 Dec 15 j 20:58	3°♎44'24	-1°07'46
minimum elong	-11718 Dec 15 j 19:09	3°♎41'16	1°07'46
max. Earth dist.	-11717 Jan 14 j 05:24	23°♎43'05	2.57040 AU
	-11717 Jan 23 j 15:09	0°♏	
morning rise	-11717 Feb 07 j 07:42	9°♏42'07	
	-11717 Mar 10 j 15:25	0°♐	
	-11717 Apr 27 j 06:34	0°♑	
	-11717 Jun 15 j 18:24	0°♒	
	-11717 Aug 08 j 13:42	0°♓	
asc. node	-11717 Aug 19 j 17:43	5°♓33'09	
retrograde	-11717 Oct 26 j 10:09	25°♓37'11	
opposition	-11717 Nov 30 j 06:19	18°♓25'42	4°40'03
greatest brilliancy	-11717 Dec 01 j 10:47	18°♓00'33	-2.1m
min. Earth dist.	-11717 Dec 08 j 03:52	15°♓38'39	0.51044 AU
direct	-11716 Jan 07 j 19:34	9°♓37'56	
	-11716 Mar 10 j 12:13	0°♈	
	-11716 Apr 27 j 09:21	0°♉	
	-11716 Jun 08 j 07:45	0°♊	
desc. node	-11716 Jul 07 j 03:44	21°♊25'31	
	-11716 Jul 18 j 14:57	0°♋	
	-11716 Aug 27 j 23:27	0°♌	
	-11716 Oct 08 j 08:12	0°♍	
	-11716 Nov 20 j 06:28	0°♎	
evening set	-11716 Dec 09 j 12:57	13°♎05'21	
	-11715 Jan 03 j 21:37	0°♏	
conjunction	-11715 Jan 29 j 11:12	16°♏44'45	-1°11'34
minimum elong	-11715 Jan 29 j 12:10	16°♏46'20	1°12'02
max. Earth dist.	-11715 Feb 10 j 09:49	24°♏29'11	2.64327 AU
	-11715 Feb 18 j 23:00	0°♐	
morning rise	-11715 Mar 19 j 06:09	18°♐08'03	
	-11715 Apr 06 j 21:01	0°♑	
	-11715 May 24 j 02:54	0°♒	
asc. node	-11715 Jul 06 j 11:21	27°♒25'08	
	-11715 Jul 10 j 13:49	0°♓	
	-11715 Aug 27 j 23:35	0°♈	
	-11715 Oct 19 j 09:50	0°♉	
retrograde	-11715 Dec 31 j 14:46	23°♉52'59	
opposition	-11714 Jan 31 j 15:40	18°♉35'15	6°50'41
greatest brilliancy	-11714 Feb 01 j 20:23	18°♉15'08	-2.7m
min. Earth dist.	-11714 Feb 05 j 07:57	17°♉16'53	0.39978 AU
direct	-11714 Mar 05 j 01:33	12°♉43'49	
	-11714 Apr 30 j 14:15	0°♊	
desc. node	-11714 May 25 j 09:26	14°♊04'16	
	-11714 Jun 19 j 14:32	0°♋	
	-11714 Aug 03 j 08:32	0°♌	
	-11714 Sep 16 j 10:11	0°♍	
	-11714 Oct 31 j 03:05	0°♎	
	-11714 Dec 15 j 21:09	0°♏	
evening set	-11713 Jan 21 j 04:45	23°♏24'03	
	-11713 Jan 31 j 12:04	0°♐	
max. Earth dist.	-11713 Mar 07 j 10:00	22°♐19'38	2.66394 AU
conjunction	-11713 Mar 10 j 13:31	24°♐20'29	-0°42'12
minimum elong	-11713 Mar 10 j 14:57	24°♐22'46	0°42'50
	-11713 Mar 19 j 09:28	0°♑	
morning rise	-11713 Apr 26 j 12:27	24°♑34'45	
	-11713 May 04 j 20:28	0°♒	
asc. node	-11713 May 24 j 03:20	12°♒37'27	
	-11713 Jun 19 j 08:57	0°♓	
	-11713 Aug 02 j 20:10	0°♈	
	-11713 Sep 15 j 12:26	0°♉	
	-11713 Oct 29 j 01:21	0°♊	
	-11713 Dec 13 j 02:24	0°♋	
	-11712 Feb 05 j 03:38	0°♌	
retrograde	-11712 Mar 15 j 13:53	9°♌20'58	
desc. node	-11712 Apr 11 j 12:37	4°♌43'38	
min. Earth dist.	-11712 Apr 11 j 21:44	4°♌36'51	0.41514 AU
opposition	-11712 Apr 18 j 13:43	2°♌34'40	-0°31'01
greatest brilliancy	-11712 Apr 18 j 10:08	2°♌37'25	-2.7m
	-11712 Apr 27 j 10:28	30°℞♋	
direct	-11712 May 19 j 20:11	26°♋50'43	
	-11712 Jun 11 j 17:00	0°♌	
	-11712 Aug 17 j 07:11	0°♍	
	-11712 Oct 07 j 00:03	0°♎	
	-11712 Nov 24 j 13:33	0°♏	
	-11711 Jan 11 j 13:50	0°♐	
evening set	-11711 Feb 28 j 16:49	0°♑26'46	
	-11711 Feb 28 j 00:03	0°♑	
max. Earth dist.	-11711 Mar 31 j 12:15	20°♑18'14	2.63131 AU
asc. node	-11711 Apr 09 j 21:41	26°♑26'12	
	-11711 Apr 15 j 07:54	0°♒	
conjunction	-11711 Apr 17 j 21:41	1°♒41'44	0°04'56
minimum elong	-11711 Apr 17 j 21:31	1°♒41'28	0°04'22
behind sun begin	-11711 Apr 17 j 02:09	1°♒09'33	
behind sun end	-11711 Apr 18 j 16:54	2°♒13'24	
	-11711 May 30 j 02:08	0°♓	
morning rise	-11711 Jun 04 j 15:07	3°♓47'46	
	-11711 Jul 12 j 03:03	0°♈	
	-11711 Aug 22 j 15:26	0°♉	
	-11711 Oct 02 j 02:36	0°♊	
	-11711 Nov 11 j 05:54	0°♋	
	-11711 Dec 22 j 04:41	0°♌	
	-11710 Feb 04 j 03:00	0°♍	
desc. node	-11710 Feb 27 j 13:21	14°♍12'08	
	-11710 Mar 31 j 19:22	0°♎	
retrograde	-11710 May 07 j 02:11	7°♎55'36	
min. Earth dist.	-11710 Jun 07 j 09:01	1°♎21'48	0.53405 AU
	-11710 Jun 11 j 00:17	30°℞♍	
greatest brilliancy	-11710 Jun 13 j 08:46	29°♍06'31	-2.0m
opposition	-11710 Jun 14 j 15:43	28°♍37'20	-5°04'01
direct	-11710 Jul 19 j 18:16	20°♍53'52	
	-11710 Aug 30 j 15:38	0°♎	
	-11710 Oct 31 j 07:39	0°♏	
	-11710 Dec 22 j 02:40	0°♐	
	-11709 Feb 09 j 00:27	0°♑	
asc. node	-11709 Feb 25 j 20:11	10°♑38'03	
	-11709 Mar 27 j 18:49	0°♒	
evening set	-11709 Apr 10 j 14:29	9°♒08'35	
max. Earth dist.	-11709 Apr 29 j 23:52	22°♒12'37	2.54865 AU
	-11709 May 11 j 08:32	0°♓	
conjunction	-11709 May 31 j 03:21	13°♓48'46	0°53'36
minimum elong	-11709 May 31 j 01:24	13°♓45'20	0°53'21
	-11709 Jun 22 j 18:36	0°♈	
morning rise	-11709 Jul 22 j 06:45	21°♈41'24	
	-11709 Aug 02 j 09:01	0°♉	
	-11709 Sep 10 j 17:51	0°♊	
	-11709 Oct 19 j 15:15	0°♋	
	-11709 Nov 27 j 22:50	0°♌	
	-11708 Jan 07 j 18:11	0°♍	
desc. node	-11708 Jan 15 j 08:56	5°♍24'24	
	-11708 Feb 20 j 14:19	0°♎	
	-11708 Apr 11 j 10:59	0°♏	
retrograde	-11708 Jun 15 j 00:46	20°♏04'14	
min. Earth dist.	-11708 Jul 21 j 03:04	11°♏40'39	0.62844 AU
opposition	-11708 Jul 24 j 22:50	10°♏08'58	-5°09'13
greatest brilliancy	-11708 Jul 24 j 07:36	10°♏24'12	-1.5m
direct	-11708 Sep 01 j 03:21	1°♏08'38	
	-11708 Nov 25 j 22:44	0°♐	
asc. node	-11707 Jan 12 j 23:34	26°♐51'13	
	-11707 Jan 18 j 06:35	0°♑	
	-11707 Mar 07 j 11:38	0°♒	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11707 Apr 21 j 10:17	0°♓	
evening set	-11707 May 26 j 22:39	25°♓05'08	
	-11707 Jun 02 j 17:03	0°♈	
max. Earth dist.	-11707 Jun 14 j 21:02	8°♈56'15	2.43166 AU
	-11707 Jul 12 j 22:07	0°♉	
conjunction	-11707 Jul 22 j 05:50	7°♉07'20	1°12'11
minimum elong	-11707 Jul 22 j 06:45	7°♉09'07	1°12'33
	-11707 Aug 20 j 19:13	0°♊	
morning rise	-11707 Sep 21 j 11:37	24°♊45'37	
	-11707 Sep 28 j 04:37	0°♋	
	-11707 Nov 05 j 23:47	0°♌	
desc. node	-11707 Dec 02 j 01:12	19°♌39'19	
	-11707 Dec 16 j 01:39	0°♍	
	-11706 Jan 27 j 06:54	0°♎	
	-11706 Mar 13 j 17:36	0°♏	
	-11706 May 04 j 02:52	0°♐	
retrograde	-11706 Jul 20 j 13:48	25°♐35'12	
opposition	-11706 Aug 29 j 07:54	15°♐54'08	-3°26'41
greatest brilliancy	-11706 Aug 29 j 08:31	15°♐53'31	-1.4m
min. Earth dist.	-11706 Aug 29 j 07:29	15°♐54'33	0.66474 AU
direct	-11706 Oct 08 j 10:43	6°♐10'44	
asc. node	-11706 Dec 01 j 05:31	19°♐47'41	
	-11706 Dec 22 j 23:21	0°♑	
	-11705 Feb 14 j 01:35	0°♒	
	-11705 Apr 01 j 10:53	0°♓	
	-11705 May 14 j 03:38	0°♈	
	-11705 Jun 23 j 09:25	0°♉	
evening set	-11705 Jul 24 j 23:08	24°♉22'27	
	-11705 Aug 01 j 04:03	0°♊	
	-11705 Sep 08 j 10:37	0°♋	
conjunction	-11705 Sep 25 j 11:53	13°♋17'59	0°18'26
minimum elong	-11705 Sep 25 j 13:36	13°♋21'19	0°19'03
	-11705 Oct 17 j 03:23	0°♌	
desc. node	-11705 Oct 19 j 19:35	2°♌02'41	
max. Earth dist.	-11705 Nov 04 j 07:15	13°♌47'19	2.40811 AU
	-11705 Nov 26 j 02:10	0°♍	
morning rise	-11705 Nov 28 j 07:40	1°♍38'13	
	-11704 Jan 06 j 22:47	0°♎	
	-11704 Feb 20 j 05:12	0°♏	
	-11704 Apr 07 j 10:35	0°♐	
	-11704 May 29 j 11:18	0°♑	
	-11704 Aug 22 j 00:28	0°♒	
retrograde	-11704 Aug 24 j 20:55	0°♒03'04	
	-11704 Aug 27 j 16:43	30°℞♑	
opposition	-11704 Oct 02 j 09:49	21°♑02'44	-0°40'18
greatest brilliancy	-11704 Oct 02 j 12:20	21°♑00'15	-1.5m
min. Earth dist.	-11704 Oct 06 j 02:32	19°♑35'19	0.63925 AU
asc. node	-11704 Oct 18 j 10:31	15°♑07'01	
direct	-11704 Nov 12 j 05:49	11°♑04'32	
	-11703 Jan 15 j 04:08	0°♒	
	-11703 Mar 08 j 12:54	0°♓	
	-11703 Apr 21 j 23:17	0°♈	
	-11703 Jun 01 j 21:08	0°♉	
	-11703 Jul 10 j 23:59	0°♊	
	-11703 Aug 18 j 12:43	0°♋	
desc. node	-11703 Sep 05 j 17:32	14°♋05'57	
	-11703 Sep 26 j 11:32	0°♌	
evening set	-11703 Sep 27 j 05:28	0°♌34'06	
	-11703 Nov 05 j 15:59	0°♍	
conjunction	-11703 Nov 25 j 08:38	14°♍14'51	-0°53'08
minimum elong	-11703 Nov 25 j 05:58	14°♍10'06	0°52'54
	-11703 Dec 17 j 15:48	0°♎	
max. Earth dist.	-11703 Dec 31 j 19:27	9°♎47'26	2.52900 AU
morning rise	-11702 Jan 20 j 13:34	23°♎12'25	
	-11702 Jan 30 j 17:31	0°♏	
	-11702 Mar 17 j 20:50	0°♐	
	-11702 May 05 j 02:23	0°♑	
	-11702 Jun 25 j 10:55	0°♒	
	-11702 Aug 26 j 22:46	0°♓	
asc. node	-11702 Sep 05 j 11:32	3°♓11'12	
retrograde	-11702 Oct 06 j 08:17	8°♓19'23	
opposition	-11702 Nov 11 j 12:44	0°♓29'07	3°02'48
greatest brilliancy	-11702 Nov 12 j 05:15	0°♓13'49	-1.8m
	-11702 Nov 12 j 20:07	30°℞♒	
min. Earth dist.	-11702 Nov 18 j 14:06	27°♒52'21	0.55554 AU
direct	-11702 Dec 21 j 07:19	21°♒03'38	
	-11701 Jan 30 j 01:26	0°♓	
	-11701 Mar 26 j 14:35	0°♈	
	-11701 May 09 j 10:09	0°♉	
	-11701 Jun 18 j 22:15	0°♊	
desc. node	-11701 Jul 24 j 18:55	27°♊14'54	
	-11701 Jul 28 j 09:41	0°♋	
	-11701 Sep 06 j 03:30	0°♌	
	-11701 Oct 17 j 00:34	0°♍	
evening set	-11701 Nov 22 j 00:22	25°♍27'47	
	-11701 Nov 28 j 13:37	0°♎	
	-11700 Jan 11 j 22:32	0°♏	
conjunction	-11700 Jan 13 j 17:01	1°♏10'24	-1°15'03
minimum elong	-11700 Jan 13 j 17:06	1°♏10'31	1°15'22
max. Earth dist.	-11700 Feb 01 j 06:04	13°♏22'14	2.62074 AU
	-11700 Feb 26 j 21:38	0°♐	
morning rise	-11700 Mar 03 j 22:15	3°♐52'20	
	-11700 Apr 13 j 23:40	0°♑	
	-11700 May 31 j 20:20	0°♒	
	-11700 Jul 19 j 19:30	0°♓	
asc. node	-11700 Jul 23 j 06:39	2°♓04'27	
	-11700 Sep 10 j 05:25	0°♈	
retrograde	-11700 Dec 02 j 08:24	28°♈23'17	
opposition	-11699 Jan 03 j 17:46	22°♈24'16	6°46'10
greatest brilliancy	-11699 Jan 05 j 09:35	21°♈53'05	-2.5m
min. Earth dist.	-11699 Jan 11 j 02:15	20°♈07'04	0.43700 AU
direct	-11699 Feb 07 j 22:26	15°♈16'05	
	-11699 Mar 30 j 23:41	0°♉	
	-11699 May 20 j 00:27	0°♊	
desc. node	-11699 Jun 11 j 00:38	15°♊00'45	
	-11699 Jul 02 j 08:41	0°♋	
	-11699 Aug 13 j 12:15	0°♌	
	-11699 Sep 25 j 02:49	0°♍	
	-11699 Nov 07 j 21:51	0°♎	
	-11699 Dec 23 j 02:34	0°♏	
evening set	-11698 Jan 05 j 06:48	8°♏35'40	
	-11698 Feb 07 j 10:22	0°♐	
conjunction	-11698 Feb 23 j 08:08	10°♐12'08	-0°56'26
minimum elong	-11698 Feb 23 j 09:42	10°♐14'38	0°57'02
max. Earth dist.	-11698 Feb 25 j 19:22	11°♐46'59	2.66228 AU
	-11698 Mar 26 j 06:29	0°♑	
morning rise	-11698 Apr 11 j 16:52	10°♑31'48	
	-11698 May 11 j 22:39	0°♒	
asc. node	-11698 Jun 09 j 22:30	18°♒49'32	
	-11698 Jun 27 j 00:30	0°♓	
	-11698 Aug 11 j 12:49	0°♈	
	-11698 Sep 26 j 00:20	0°♉	
	-11698 Nov 11 j 22:16	0°♊	
	-11697 Jan 06 j 02:10	0°♋	
retrograde	-11697 Feb 17 j 12:53	10°♋17'07	
min. Earth dist.	-11697 Mar 18 j 07:41	5°♋31'54	0.38770 AU
opposition	-11697 Mar 21 j 07:26	4°♋42'25	3°00'05
greatest brilliancy	-11697 Mar 21 j 03:15	4°♋45'19	-2.9m
	-11697 Apr 12 j 09:27	30°℞♊	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

direct	-11697 Apr 20 j 14:41	29°♊33'26	
	-11697 Apr 28 j 22:12	0°♋	
desc. node	-11697 Apr 29 j 06:52	0°♋02'19	
	-11697 Jul 12 j 14:27	0°♌	
	-11697 Aug 31 j 03:13	0°♍	
	-11697 Oct 17 j 08:41	0°♎	
	-11697 Dec 03 j 11:03	0°♏	
	-11696 Jan 19 j 18:39	0°♐	
evening set	-11696 Feb 14 j 10:48	16°♐17'50	
	-11696 Mar 06 j 22:08	0°♑	
max. Earth dist.	-11696 Mar 21 j 15:34	9°♑27'30	2.65030 AU
conjunction	-11696 Apr 02 j 10:46	17°♑05'14	-0°14'35
minimum elong	-11696 Apr 02 j 11:23	17°♑06'13	0°15'13
behind sun begin	-11696 Apr 02 j 05:48	16°♑57'11	
behind sun end	-11696 Apr 02 j 16:57	17°♑15'16	
	-11696 Apr 22 j 06:00	0°♒	
asc. node	-11696 Apr 26 j 15:01	2°♒52'33	
morning rise	-11696 May 19 j 12:48	18°♒04'28	
	-11696 Jun 06 j 05:37	0°♓	
	-11696 Jul 19 j 17:01	0°♈	
	-11696 Aug 30 j 20:17	0°♉	
	-11696 Oct 11 j 02:38	0°♊	
	-11696 Nov 21 j 06:53	0°♋	
	-11695 Jan 02 j 22:34	0°♌	
	-11695 Feb 20 j 16:37	0°♍	
desc. node	-11695 Mar 16 j 07:52	10°♍54'02	
retrograde	-11695 Apr 18 j 17:52	17°♍52'26	
min. Earth dist.	-11695 May 18 j 01:05	12°♍07'35	0.48592 AU
greatest brilliancy	-11695 May 24 j 19:32	9°♍43'03	-2.2m
opposition	-11695 May 26 j 00:35	9°♍17'08	-4°04'03
direct	-11695 Jun 28 j 14:30	2°♍16'35	
	-11695 Sep 18 j 02:04	0°♎	
	-11695 Nov 10 j 07:31	0°♏	
	-11695 Dec 30 j 02:27	0°♐	
	-11694 Feb 16 j 06:31	0°♑	
asc. node	-11694 Mar 14 j 11:57	16°♑45'56	
evening set	-11694 Mar 25 j 06:13	23°♑44'57	
	-11694 Apr 03 j 19:18	0°♒	
max. Earth dist.	-11694 Apr 17 j 13:56	9°♒07'24	2.58651 AU
conjunction	-11694 May 13 j 12:52	26°♒39'22	0°35'57
minimum elong	-11694 May 13 j 11:24	26°♒36'51	0°35'33
	-11694 May 18 j 09:48	0°♓	
	-11694 Jun 30 j 00:35	0°♈	
morning rise	-11694 Jul 02 j 09:06	1°♈41'49	
	-11694 Aug 09 j 21:51	0°♉	
	-11694 Sep 18 j 14:36	0°♊	
	-11694 Oct 27 j 20:20	0°♋	
	-11694 Dec 06 j 13:29	0°♌	
	-11693 Jan 17 j 00:38	0°♍	
desc. node	-11693 Feb 01 j 04:14	10°♍24'50	
	-11693 Mar 03 j 13:26	0°♎	
	-11693 May 03 j 11:16	0°♏	
retrograde	-11693 Jun 01 j 09:00	5°♏01'49	
	-11693 Jun 28 j 10:54	30°℞♎	
min. Earth dist.	-11693 Jul 05 j 17:24	27°♎17'03	0.59784 AU
greatest brilliancy	-11693 Jul 10 j 01:26	25°♎34'34	-1.6m
opposition	-11693 Jul 11 j 00:06	25°♎12'13	-5°25'05
direct	-11693 Aug 17 j 03:22	16°♎37'01	
	-11693 Oct 09 j 04:09	0°♏	
	-11693 Dec 07 j 11:07	0°♐	
	-11692 Jan 27 j 09:53	0°♑	
asc. node	-11692 Jan 30 j 13:40	1°♑56'16	
	-11692 Mar 14 j 21:29	0°♒	
	-11692 Apr 28 j 15:13	0°♓	
evening set	-11692 May 07 j 09:08	6°♓04'12	
max. Earth dist.	-11692 May 23 j 10:25	17°♓23'35	2.47918 AU
	-11692 Jun 09 j 22:37	0°♈	
conjunction	-11692 Jun 29 j 23:31	14°♈44'53	1°11'44
minimum elong	-11692 Jun 29 j 22:27	14°♈42'54	1°11'52
	-11692 Jul 20 j 06:35	0°♉	
morning rise	-11692 Aug 26 j 07:59	28°♉28'05	
	-11692 Aug 28 j 07:21	0°♊	
	-11692 Oct 05 j 20:14	0°♋	
	-11692 Nov 13 j 18:23	0°♌	
desc. node	-11692 Dec 18 j 22:12	26°♌17'33	
	-11692 Dec 24 j 00:03	0°♍	
	-11691 Feb 04 j 13:45	0°♎	
	-11691 Mar 23 j 02:27	0°♏	
	-11691 May 18 j 13:53	0°♐	
retrograde	-11691 Jul 06 j 22:43	12°♐20'12	
min. Earth dist.	-11691 Aug 14 j 09:59	3°♐05'49	0.65797 AU
opposition	-11691 Aug 15 j 21:48	2°♐29'47	-4°15'02
greatest brilliancy	-11691 Aug 15 j 17:19	2°♐34'17	-1.4m
	-11691 Aug 22 j 05:02	30°℞♏	
direct	-11691 Sep 24 j 09:45	22°♏59'51	
	-11691 Oct 31 j 04:06	0°♐	
asc. node	-11691 Dec 17 j 19:17	21°♐10'38	
	-11690 Jan 03 j 04:00	0°♑	
	-11690 Feb 22 j 13:20	0°♒	
	-11690 Apr 09 j 04:37	0°♓	
	-11690 May 21 j 15:53	0°♈	
evening set	-11690 Jun 30 j 11:17	29°♈42'38	
	-11690 Jun 30 j 20:24	0°♉	
	-11690 Aug 08 j 15:14	0°♊	
conjunction	-11690 Aug 30 j 05:57	16°♊56'06	0°47'44
minimum elong	-11690 Aug 30 j 09:18	17°♊02'40	0°48'20
max. Earth dist.	-11690 Aug 31 j 01:15	17°♊33'55	2.38291 AU
	-11690 Sep 15 j 22:06	0°♋	
	-11690 Oct 24 j 14:46	0°♌	
morning rise	-11690 Nov 02 j 23:25	7°♌08'09	
desc. node	-11690 Nov 05 j 14:49	9°♌08'22	
	-11690 Dec 03 j 13:23	0°♍	
	-11689 Jan 14 j 11:05	0°♎	
	-11689 Feb 27 j 23:36	0°♏	
	-11689 Apr 17 j 03:13	0°♐	
	-11689 Jun 12 j 03:18	0°♑	
retrograde	-11689 Aug 11 j 08:55	16°♑39'35	
opposition	-11689 Sep 19 j 12:23	7°♑20'19	-1°51'39
greatest brilliancy	-11689 Sep 19 j 16:31	7°♑16'12	-1.4m
min. Earth dist.	-11689 Sep 21 j 18:43	6°♑26'13	0.65668 AU
	-11689 Oct 10 j 08:14	30°℞♐	
direct	-11689 Oct 30 j 05:50	27°♐23'54	
asc. node	-11689 Nov 05 j 01:12	27°♐36'28	
	-11689 Nov 20 j 11:45	0°♑	
	-11688 Jan 28 j 23:26	0°♒	
	-11688 Mar 17 j 19:56	0°♓	
	-11688 Apr 30 j 07:58	0°♈	
	-11688 Jun 09 j 21:00	0°♉	
	-11688 Jul 18 j 19:01	0°♊	
	-11688 Aug 26 j 03:55	0°♋	
evening set	-11688 Sep 02 j 06:24	5°♋32'22	
desc. node	-11688 Sep 22 j 10:46	21°♋10'29	
	-11688 Oct 03 j 22:54	0°♌	
conjunction	-11688 Nov 02 j 19:48	22°♌29'59	-0°30'04
minimum elong	-11688 Nov 02 j 17:35	22°♌25'52	0°29'37
	-11688 Nov 12 j 23:44	0°♍	
max. Earth dist.	-11688 Dec 15 j 08:41	23°♍19'15	2.48227 AU
	-11688 Dec 24 j 20:45	0°♎	
morning rise	-11687 Jan 01 j 04:40	5°♎05'59	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11687 Feb 06 j 22:09	0°♏	
	-11687 Mar 25 j 07:21	0°♐	
	-11687 May 13 j 10:56	0°♑	
	-11687 Jul 07 j 02:35	0°♒	
retrograde	-11687 Sep 18 j 14:48	22°♒46'26	
asc. node	-11687 Sep 22 j 03:24	22°♒41'42	
opposition	-11687 Oct 25 j 21:25	14°♒24'13	1°29'51
greatest brilliancy	-11687 Oct 26 j 04:05	14°♒17'50	-1.7m
min. Earth dist.	-11687 Oct 31 j 17:44	12°♒10'04	0.59487 AU
direct	-11687 Dec 05 j 09:08	4°♒37'15	
	-11686 Feb 17 j 19:25	0°♓	
	-11686 Apr 06 j 20:30	0°♈	
	-11686 May 18 j 23:51	0°♉	
	-11686 Jun 27 j 17:42	0°♊	
	-11686 Aug 05 j 16:56	0°♋	
desc. node	-11686 Aug 10 j 12:19	3°♋41'54	
	-11686 Sep 14 j 00:33	0°♌	
	-11686 Oct 24 j 12:48	0°♍	
evening set	-11686 Nov 01 j 19:27	5°♍59'07	
	-11686 Dec 05 j 18:40	0°♎	
conjunction	-11686 Dec 26 j 19:09	14°♎26'08	-1°12'27
minimum elong	-11686 Dec 26 j 18:02	14°♎24'15	1°12'34
	-11685 Jan 18 j 22:57	0°♏	
max. Earth dist.	-11685 Jan 21 j 07:19	1°♏33'37	2.59031 AU
morning rise	-11685 Feb 16 j 23:03	19°♏03'31	
	-11685 Mar 05 j 21:32	0°♐	
	-11685 Apr 22 j 06:30	0°♑	
	-11685 Jun 10 j 00:37	0°♒	
	-11685 Jul 31 j 10:55	0°♓	
asc. node	-11685 Aug 10 j 00:24	5°♓13'29	
	-11685 Oct 02 j 22:00	0°♈	
retrograde	-11685 Nov 08 j 04:18	6°♈54'21	
opposition	-11685 Dec 12 j 03:20	0°♈07'32	5°32'59
	-11685 Dec 12 j 12:12	30°℞♓	
greatest brilliancy	-11685 Dec 13 j 14:08	29°♓37'51	-2.2m
min. Earth dist.	-11685 Dec 20 j 04:04	27°♓23'37	0.48393 AU
direct	-11684 Jan 18 j 16:58	21°♓49'25	
	-11684 Feb 24 j 14:30	0°♈	
	-11684 Apr 19 j 06:48	0°♉	
	-11684 Jun 01 j 17:44	0°♊	
desc. node	-11684 Jun 27 j 16:41	18°♊53'50	
	-11684 Jul 12 j 18:46	0°♋	
	-11684 Aug 22 j 14:29	0°♌	
	-11684 Oct 03 j 07:14	0°♍	
	-11684 Nov 15 j 10:55	0°♎	
evening set	-11684 Dec 19 j 13:25	22°♎56'43	
	-11684 Dec 30 j 05:26	0°♏	
conjunction	-11683 Feb 07 j 17:14	25°♏44'10	-1°07'13
minimum elong	-11683 Feb 07 j 18:32	25°♏46'16	1°07'44
	-11683 Feb 14 j 07:58	0°♐	
max. Earth dist.	-11683 Feb 16 j 05:30	1°♐13'15	2.65219 AU
morning rise	-11683 Mar 27 j 21:39	26°♐37'27	
	-11683 Apr 02 j 04:35	0°♑	
	-11683 May 19 j 04:35	0°♒	
asc. node	-11683 Jun 26 j 16:52	24°♒38'49	
	-11683 Jul 05 j 01:26	0°♓	
	-11683 Aug 21 j 03:46	0°♈	
	-11683 Oct 08 j 22:42	0°♉	
	-11683 Dec 05 j 08:08	0°♊	
retrograde	-11682 Jan 18 j 05:19	10°♊18'12	
opposition	-11682 Feb 17 j 21:56	5°♊09'56	6°00'16
greatest brilliancy	-11682 Feb 18 j 13:32	4°♊59'23	-2.8m
min. Earth dist.	-11682 Feb 20 j 03:04	4°♊34'01	0.38757 AU
	-11682 Mar 15 j 20:21	30°℞♉	
direct	-11682 Mar 21 j 04:10	29°♉48'54	
	-11682 Mar 26 j 11:11	0°♊	
desc. node	-11682 May 15 j 21:46	16°♊24'58	
	-11682 Jun 09 j 12:06	0°♋	
	-11682 Jul 27 j 04:08	0°♌	
	-11682 Sep 10 j 12:02	0°♍	
	-11682 Oct 25 j 21:10	0°♎	
	-11682 Dec 11 j 00:24	0°♏	
	-11681 Jan 26 j 20:01	0°♐	
evening set	-11681 Jan 30 j 03:21	2°♐06'33	
max. Earth dist.	-11681 Mar 13 j 00:27	28°♐51'44	2.66125 AU
	-11681 Mar 14 j 19:02	0°♑	
conjunction	-11681 Mar 19 j 06:51	2°♑52'57	-0°32'39
minimum elong	-11681 Mar 19 j 08:03	2°♑54'54	0°33'18
	-11681 Apr 30 j 04:34	0°♒	
morning rise	-11681 May 05 j 04:19	3°♒15'52	
asc. node	-11681 May 14 j 09:05	9°♒18'26	
	-11681 Jun 14 j 12:03	0°♓	
	-11681 Jul 28 j 13:51	0°♈	
	-11681 Sep 09 j 14:35	0°♉	
	-11681 Oct 22 j 02:54	0°♊	
	-11681 Dec 04 j 04:42	0°♋	
	-11680 Jan 20 j 00:44	0°♌	
retrograde	-11680 Mar 28 j 21:04	24°♌34'00	
desc. node	-11680 Apr 02 j 01:13	24°♌26'26	
min. Earth dist.	-11680 Apr 25 j 14:25	19°♌32'59	0.43796 AU
opposition	-11680 May 03 j 04:53	17°♌04'19	-2°07'35
greatest brilliancy	-11680 May 02 j 12:52	17°♌17'26	-2.5m
direct	-11680 Jun 04 j 05:50	10°♌53'08	
	-11680 Aug 06 j 20:04	0°♍	
	-11680 Sep 30 j 09:14	0°♎	
	-11680 Nov 19 j 03:39	0°♏	
	-11679 Jan 06 j 16:23	0°♐	
	-11679 Feb 23 j 08:16	0°♑	
evening set	-11679 Mar 09 j 13:15	9°♑05'09	
asc. node	-11679 Mar 31 j 04:26	23°♑05'12	
max. Earth dist.	-11679 Apr 06 j 13:40	27°♑15'42	2.61727 AU
	-11679 Apr 10 j 17:45	0°♒	
conjunction	-11679 Apr 27 j 00:52	10°♒47'48	0°16'26
minimum elong	-11679 Apr 27 j 00:11	10°♒46'40	0°15'55
behind sun begin	-11679 Apr 26 j 22:40	10°♒44'08	
behind sun end	-11679 Apr 27 j 01:43	10°♒49'12	
	-11679 May 25 j 10:38	0°♓	
morning rise	-11679 Jun 14 j 08:29	13°♓46'25	
	-11679 Jul 07 j 07:52	0°♈	
	-11679 Aug 17 j 14:26	0°♉	
	-11679 Sep 26 j 18:12	0°♊	
	-11679 Nov 05 j 12:22	0°♋	
	-11679 Dec 15 j 21:18	0°♌	
	-11678 Jan 27 j 13:34	0°♍	
desc. node	-11678 Feb 17 j 23:44	13°♍51'23	
	-11678 Mar 18 j 01:01	0°♎	
retrograde	-11678 May 16 j 16:49	18°♎33'37	
min. Earth dist.	-11678 Jun 18 j 02:27	11°♎33'25	0.55875 AU
opposition	-11678 Jun 24 j 17:46	9°♎00'24	-5°20'04
greatest brilliancy	-11678 Jun 23 j 12:52	9°♎28'13	-1.8m
direct	-11678 Jul 30 j 15:20	0°♎56'32	
	-11678 Oct 23 j 23:08	0°♏	
	-11678 Dec 16 j 13:56	0°♐	
	-11677 Feb 04 j 02:35	0°♑	
asc. node	-11677 Feb 16 j 04:41	7°♑34'15	
	-11677 Mar 23 j 02:49	0°♒	
evening set	-11677 Apr 20 j 08:03	18°♒46'42	
	-11677 May 06 j 18:12	0°♓	
max. Earth dist.	-11677 May 07 j 22:21	0°♓48'37	2.52512 AU

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11677 Jun 10 j 19:20	24°♓41'47	1°01'59
minimum elong	-11677 Jun 10 j 17:26	24°♓38'20	1°01'52
	-11677 Jun 18 j 03:36	0°♈	
	-11677 Jul 28 j 15:40	0°♉	
morning rise	-11677 Aug 03 j 14:28	4°♉30'06	
	-11677 Sep 05 j 21:14	0°♊	
	-11677 Oct 14 j 14:57	0°♋	
	-11677 Nov 22 j 17:58	0°♌	
	-11676 Jan 02 j 06:26	0°♍	
desc. node	-11676 Jan 05 j 17:22	2°♍29'04	
	-11676 Feb 14 j 11:18	0°♎	
	-11676 Apr 03 j 00:57	0°♏	
retrograde	-11676 Jun 23 j 04:13	28°♏39'43	
min. Earth dist.	-11676 Jul 30 j 04:23	19°♏56'22	0.64171 AU
opposition	-11676 Aug 02 j 03:51	18°♏44'40	-4°52'56
greatest brilliancy	-11676 Aug 01 j 16:46	18°♏55'47	-1.4m
direct	-11676 Sep 09 j 20:46	9°♏32'27	
	-11676 Nov 17 j 21:54	0°♐	
asc. node	-11675 Jan 03 j 08:47	24°♐38'41	
	-11675 Jan 12 j 14:53	0°♑	
	-11675 Mar 02 j 11:56	0°♒	
	-11675 Apr 16 j 16:26	0°♓	
	-11675 May 29 j 01:19	0°♈	
evening set	-11675 Jun 07 j 19:36	7°♈09'27	
max. Earth dist.	-11675 Jul 02 j 20:30	25°♈53'01	2.40792 AU
	-11675 Jul 08 j 06:31	0°♉	
conjunction	-11675 Aug 04 j 18:02	21°♉09'05	1°07'04
minimum elong	-11675 Aug 04 j 20:14	21°♉13'23	1°07'32
	-11675 Aug 16 j 02:46	0°♊	
	-11675 Sep 23 j 10:53	0°♋	
morning rise	-11675 Oct 06 j 19:55	10°♋25'59	
	-11675 Nov 01 j 04:15	0°♌	
desc. node	-11675 Nov 22 j 11:38	16°♌08'47	
	-11675 Dec 11 j 03:35	0°♍	
	-11674 Jan 22 j 04:14	0°♎	
	-11674 Mar 08 j 03:21	0°♏	
	-11674 Apr 26 j 21:12	0°♐	
	-11674 Jul 03 j 11:11	0°♑	
retrograde	-11674 Jul 28 j 11:18	3°♑33'29	
	-11674 Aug 20 j 15:50	30°℞♐	
opposition	-11674 Sep 06 j 01:27	23°♐59'13	-2°54'13
greatest brilliancy	-11674 Sep 06 j 04:03	23°♐56'37	-1.4m
min. Earth dist.	-11674 Sep 06 j 21:00	23°♐39'37	0.66455 AU
direct	-11674 Oct 16 j 10:55	14°♐09'51	
asc. node	-11674 Nov 21 j 14:44	21°♐00'29	
	-11674 Dec 14 j 02:36	0°♑	
	-11673 Feb 08 j 04:00	0°♒	
	-11673 Mar 27 j 06:42	0°♓	
	-11673 May 09 j 05:57	0°♈	
	-11673 Jun 18 j 14:22	0°♉	
	-11673 Jul 27 j 10:12	0°♊	
evening set	-11673 Aug 08 j 09:03	9°♊21'09	
	-11673 Sep 03 j 17:26	0°♋	
conjunction	-11673 Oct 10 j 02:03	28°♋12'05	0°00'10
minimum elong	-11673 Oct 10 j 02:04	28°♋12'08	0°00'45
behind sun begin	-11673 Oct 08 j 23:30	27°♋21'12	
behind sun end	-11673 Oct 11 j 04:38	29°♋03'02	
desc. node	-11673 Oct 10 j 07:05	28°♋21'42	
	-11673 Oct 12 j 10:23	0°♌	
	-11673 Nov 21 j 08:55	0°♍	
max. Earth dist.	-11673 Nov 23 j 06:17	1°♍23'18	2.43304 AU
morning rise	-11673 Dec 11 j 14:09	14°♍41'51	
	-11672 Jan 02 j 04:24	0°♎	
	-11672 Feb 15 j 07:08	0°♏	
	-11672 Apr 02 j 02:15	0°♐	
	-11672 May 22 j 17:11	0°♑	
	-11672 Jul 23 j 23:44	0°♒	
retrograde	-11672 Sep 02 j 13:15	8°♒23'04	
asc. node	-11672 Oct 08 j 18:43	0°♒19'47	
	-11672 Oct 09 j 15:06	30°℞♑	
opposition	-11672 Oct 10 j 16:49	29°♑34'56	0°04'56
greatest brilliancy	-11672 Oct 10 j 17:09	29°♑34'37	-1.6m
min. Earth dist.	-11672 Oct 15 j 04:42	27°♑49'34	0.62594 AU
direct	-11672 Nov 20 j 12:09	19°♑38'12	
	-11671 Jan 04 j 03:02	0°♒	
	-11671 Mar 02 j 00:59	0°♓	
	-11671 Apr 16 j 09:59	0°♈	
	-11671 May 27 j 16:25	0°♉	
	-11671 Jul 05 j 23:37	0°♊	
	-11671 Aug 13 j 15:19	0°♋	
desc. node	-11671 Aug 27 j 04:43	10°♋29'24	
	-11671 Sep 21 j 16:18	0°♌	
evening set	-11671 Oct 10 j 15:36	14°♌16'47	
	-11671 Oct 31 j 22:30	0°♍	
conjunction	-11671 Dec 07 j 06:37	26°♍00'44	-1°02'30
minimum elong	-11671 Dec 07 j 04:20	25°♍56'45	1°02'25
	-11671 Dec 12 j 23:28	0°♎	
max. Earth dist.	-11670 Jan 08 j 19:28	18°♎26'04	2.55269 AU
	-11670 Jan 26 j 00:52	0°♏	
morning rise	-11670 Jan 30 j 21:45	3°♏14'03	
	-11670 Mar 13 j 01:04	0°♐	
	-11670 Apr 29 j 20:50	0°♑	
	-11670 Jun 18 j 23:58	0°♒	
	-11670 Aug 14 j 06:04	0°♓	
asc. node	-11670 Aug 26 j 17:52	5°♓34'02	
retrograde	-11670 Oct 17 j 10:31	18°♓20'41	
opposition	-11670 Nov 21 j 21:36	10°♓50'55	3°58'05
greatest brilliancy	-11670 Nov 22 j 20:50	10°♓29'53	-2.0m
min. Earth dist.	-11670 Nov 29 j 11:25	8°♓06'32	0.53137 AU
direct	-11670 Dec 31 j 02:00	1°♓43'35	
	-11669 Mar 18 j 04:17	0°♈	
	-11669 May 02 j 21:45	0°♉	
	-11669 Jun 13 j 02:58	0°♊	
desc. node	-11669 Jul 15 j 07:53	24°♊12'18	
	-11669 Jul 23 j 00:14	0°♋	
	-11669 Sep 01 j 00:48	0°♌	
	-11669 Oct 12 j 02:53	0°♍	
	-11669 Nov 23 j 19:38	0°♎	
evening set	-11669 Dec 02 j 18:42	6°♎08'33	
	-11668 Jan 07 j 06:43	0°♏	
conjunction	-11668 Jan 23 j 10:32	10°♏38'31	-1°13'40
minimum elong	-11668 Jan 23 j 11:10	10°♏39'33	1°14'04
max. Earth dist.	-11668 Feb 07 j 08:47	20°♏22'23	2.63416 AU
	-11668 Feb 22 j 06:06	0°♐	
morning rise	-11668 Mar 12 j 19:31	12°♐32'58	
	-11668 Apr 09 j 05:14	0°♑	
	-11668 May 26 j 16:42	0°♒	
asc. node	-11668 Jul 13 j 12:22	29°♒52'20	
	-11668 Jul 13 j 17:20	0°♓	
	-11668 Sep 01 j 11:56	0°♈	
	-11668 Oct 28 j 22:50	0°♉	
retrograde	-11668 Dec 18 j 08:52	12°♉41'30	
opposition	-11667 Jan 18 j 23:22	7°♉07'35	7°00'47
greatest brilliancy	-11667 Jan 20 j 11:28	6°♉41'04	-2.6m
min. Earth dist.	-11667 Jan 25 j 04:08	5°♉19'00	0.41456 AU
direct	-11667 Feb 21 j 14:25	0°♉43'17	
	-11667 May 09 j 22:39	0°♊	
desc. node	-11667 Jun 01 j 13:51	14°♊18'18	
	-11667 Jun 25 j 00:14	0°♋	
	-11667 Aug 07 j 08:57	0°♌	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11667 Sep 19 j 16:06	0°♍	
	-11667 Nov 02 j 21:27	0°♎	
	-11667 Dec 18 j 08:16	0°♏	
evening set	-11666 Jan 14 j 11:42	17°♏35'05	
	-11666 Feb 02 j 19:16	0°♐	
max. Earth dist.	-11666 Mar 03 j 09:44	18°♐18'44	2.66424 AU
conjunction	-11666 Mar 04 j 02:42	18°♐45'51	-0°48'32
minimum elong	-11666 Mar 04 j 04:13	18°♐48'18	0°49'11
	-11666 Mar 21 j 15:58	0°♑	
morning rise	-11666 Apr 20 j 04:54	18°♑59'11	
	-11666 May 07 j 05:18	0°♒	
asc. node	-11666 May 31 j 04:35	15°♒38'14	
	-11666 Jun 21 j 23:48	0°♓	
	-11666 Aug 05 j 21:29	0°♈	
	-11666 Sep 19 j 06:23	0°♉	
	-11666 Nov 02 j 23:05	0°♊	
	-11666 Dec 20 j 12:43	0°♋	
retrograde	-11665 Mar 05 j 10:25	27°♋27'17	
min. Earth dist.	-11665 Apr 01 j 23:48	22°♋48'44	0.40005 AU
opposition	-11665 Apr 07 j 07:41	21°♋16'02	0°56'41
greatest brilliancy	-11665 Apr 07 j 04:15	21°♋18'32	-2.8m
desc. node	-11665 Apr 19 j 17:34	17°♋58'11	
direct	-11665 May 08 j 00:52	15°♋51'25	
	-11665 Jun 29 j 09:12	0°♌	
	-11665 Aug 23 j 14:07	0°♍	
	-11665 Oct 11 j 11:47	0°♎	
	-11665 Nov 28 j 07:47	0°♏	
	-11664 Jan 14 j 24:00	0°♐	
evening set	-11664 Feb 23 j 04:51	24°♐49'41	
	-11664 Mar 02 j 07:23	0°♑	
max. Earth dist.	-11664 Mar 27 j 10:48	16°♑10'19	2.64090 AU
conjunction	-11664 Apr 11 j 06:11	25°♑48'27	-0°03'30
minimum elong	-11664 Apr 11 j 06:19	25°♑48'40	0°04'06
behind sun begin	-11664 Apr 10 j 10:59	25°♑17'06	
behind sun end	-11664 Apr 12 j 01:39	26°♑20'16	
asc. node	-11664 Apr 16 j 22:20	29°♑31'24	
	-11664 Apr 17 j 15:46	0°♒	
morning rise	-11664 May 28 j 15:03	27°♒19'59	
	-11664 Jun 01 j 13:13	0°♓	
	-11664 Jul 14 j 19:28	0°♈	
	-11664 Aug 25 j 14:46	0°♉	
	-11664 Oct 05 j 09:55	0°♊	
	-11664 Nov 14 j 22:42	0°♋	
	-11664 Dec 26 j 10:45	0°♌	
	-11663 Feb 09 j 17:12	0°♍	
desc. node	-11663 Mar 06 j 18:30	14°♍05'10	
	-11663 Apr 26 j 15:56	0°♎	
retrograde	-11663 Apr 29 j 12:03	0°♎03'25	
	-11663 May 02 j 07:50	30°℞♍	
min. Earth dist.	-11663 May 29 j 20:34	23°♍52'04	0.51286 AU
greatest brilliancy	-11663 Jun 05 j 06:18	21°♍30'43	-2.1m
opposition	-11663 Jun 06 j 13:37	21°♍01'49	-4°44'28
direct	-11663 Jul 11 j 00:43	13°♍36'35	
	-11663 Sep 07 j 23:54	0°♎	
	-11663 Nov 04 j 00:41	0°♏	
	-11663 Dec 24 j 21:09	0°♐	
	-11662 Feb 11 j 11:29	0°♑	
asc. node	-11662 Mar 04 j 19:49	13°♑33'29	
	-11662 Mar 30 j 04:09	0°♒	
evening set	-11662 Apr 03 j 12:46	2°♒52'05	
max. Earth dist.	-11662 Apr 24 j 14:03	16°♒54'22	2.56645 AU
	-11662 May 13 j 19:17	0°♓	
conjunction	-11662 May 23 j 10:13	6°♓39'42	0°46'25
minimum elong	-11662 May 23 j 08:25	6°♓36'35	0°46'07
	-11662 Jun 25 j 08:27	0°♈	
morning rise	-11662 Jul 13 j 09:57	13°♈09'11	
	-11662 Aug 05 j 02:41	0°♉	
	-11662 Sep 13 j 15:18	0°♊	
	-11662 Oct 22 j 16:15	0°♋	
	-11662 Dec 01 j 03:04	0°♌	
	-11661 Jan 11 j 02:57	0°♍	
desc. node	-11661 Jan 22 j 15:21	8°♍05'10	
	-11661 Feb 24 j 10:59	0°♎	
	-11661 Apr 18 j 16:19	0°♏	
retrograde	-11661 Jun 09 j 22:25	14°♏12'52	
min. Earth dist.	-11661 Jul 15 j 06:28	6°♏05'47	0.61575 AU
opposition	-11661 Jul 19 j 17:41	4°♏19'13	-5°18'10
greatest brilliancy	-11661 Jul 18 j 23:09	4°♏37'39	-1.6m
	-11661 Jul 31 j 07:08	30°℞♎	
direct	-11661 Aug 26 j 11:20	25°♎29'21	
	-11661 Sep 24 j 03:00	0°♏	
	-11661 Nov 30 j 21:09	0°♐	
asc. node	-11660 Jan 20 j 22:14	29°♐16'27	
	-11660 Jan 22 j 03:07	0°♑	
	-11660 Mar 10 j 01:25	0°♒	
	-11660 Apr 23 j 23:08	0°♓	
evening set	-11660 May 18 j 07:03	17°♓02'08	
max. Earth dist.	-11660 Jun 04 j 02:42	29°♓07'58	2.45275 AU
	-11660 Jun 05 j 07:19	0°♈	
conjunction	-11660 Jul 12 j 07:28	27°♈30'07	1°13'21
minimum elong	-11660 Jul 12 j 07:24	27°♈30'01	1°13'37
	-11660 Jul 15 j 14:30	0°♉	
	-11660 Aug 23 j 13:32	0°♊	
morning rise	-11660 Sep 09 j 20:13	13°♊28'14	
	-11660 Oct 01 j 00:26	0°♋	
	-11660 Nov 08 j 20:18	0°♌	
desc. node	-11660 Dec 09 j 07:54	22°♌55'46	
	-11660 Dec 18 j 22:33	0°♍	
	-11659 Jan 30 j 05:31	0°♎	
	-11659 Mar 16 j 23:15	0°♏	
	-11659 May 08 j 18:30	0°♐	
retrograde	-11659 Jul 14 j 19:47	20°♐25'05	
opposition	-11659 Aug 23 j 16:31	10°♐39'28	-3°48'04
min. Earth dist.	-11659 Aug 23 j 00:39	10°♐55'26	0.66288 AU
greatest brilliancy	-11659 Aug 23 j 15:07	10°♐40'53	-1.4m
direct	-11659 Oct 02 j 13:05	1°♐01'29	
asc. node	-11659 Dec 08 j 04:06	20°♐24'05	
	-11659 Dec 27 j 06:12	0°♑	
	-11658 Feb 17 j 03:07	0°♒	
	-11658 Apr 04 j 05:49	0°♓	
	-11658 May 16 j 21:26	0°♈	
	-11658 Jun 26 j 03:34	0°♉	
evening set	-11658 Jul 14 j 02:12	13°♉46'48	
	-11658 Aug 03 j 22:33	0°♊	
	-11658 Sep 11 j 05:06	0°♋	
conjunction	-11658 Sep 14 j 01:02	2°♋12'52	0°31'58
minimum elong	-11658 Sep 14 j 03:47	2°♋18'14	0°32'36
max. Earth dist.	-11658 Oct 13 j 23:16	25°♋27'36	2.39156 AU
	-11658 Oct 19 j 21:09	0°♌	
desc. node	-11658 Oct 27 j 01:20	5°♌28'55	
morning rise	-11658 Nov 17 j 14:17	21°♌42'55	
	-11658 Nov 28 j 18:39	0°♍	
	-11657 Jan 09 j 14:18	0°♎	
	-11657 Feb 22 j 21:16	0°♏	
	-11657 Apr 11 j 09:02	0°♐	
	-11657 Jun 03 j 14:19	0°♑	
retrograde	-11657 Aug 19 j 15:07	24°♑44'14	
opposition	-11657 Sep 27 j 11:15	15°♑35'07	-1°11'16
greatest brilliancy	-11657 Sep 27 j 14:51	15°♑31'33	-1.5m

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

min. Earth dist.	-11657 Sep 30 j 13:03	14°♌22'00	0.64818 AU
asc. node	-11657 Oct 26 j 09:17	6°♌32'40	
direct	-11657 Nov 07 j 06:58	5°♌36'55	
	-11656 Jan 21 j 08:04	0°♒	
	-11656 Mar 12 j 01:03	0°♓	
	-11656 Apr 25 j 02:26	0°♈	
	-11656 Jun 04 j 21:18	0°♉	
	-11656 Jul 13 j 22:18	0°♊	
	-11656 Aug 21 j 09:12	0°♋	
desc. node	-11656 Sep 12 j 22:35	17°♋30'06	
evening set	-11656 Sep 16 j 13:13	20°♋16'56	
	-11656 Sep 29 j 05:36	0°♌	
	-11656 Nov 08 j 07:11	0°♍	
conjunction	-11656 Nov 15 j 20:47	5°♍31'34	-0°44'12
minimum elong	-11656 Nov 15 j 18:05	5°♍26'40	0°43'51
	-11656 Dec 20 j 04:24	0°♎	
max. Earth dist.	-11656 Dec 25 j 05:55	3°♎31'46	2.50851 AU
morning rise	-11655 Jan 12 j 11:08	16°♎03'31	
	-11655 Feb 02 j 04:19	0°♏	
	-11655 Mar 20 j 08:38	0°♐	
	-11655 May 07 j 21:13	0°♑	
	-11655 Jun 29 j 07:15	0°♒	
	-11655 Sep 10 j 07:40	0°♓	
asc. node	-11655 Sep 12 j 10:56	0°♓24'24	
retrograde	-11655 Sep 28 j 12:26	1°♓54'55	
	-11655 Oct 15 j 18:16	30°℞♒	
opposition	-11655 Nov 04 j 05:06	23°♒49'44	2°22'19
greatest brilliancy	-11655 Nov 04 j 17:01	23°♒38'31	-1.8m
min. Earth dist.	-11655 Nov 10 j 18:17	21°♒21'48	0.57399 AU
direct	-11655 Dec 14 j 08:51	14°♒12'47	
	-11654 Feb 07 j 19:07	0°♓	
	-11654 Mar 31 j 03:37	0°♈	
	-11654 May 13 j 04:15	0°♉	
	-11654 Jun 22 j 07:45	0°♊	
desc. node	-11654 Jul 31 j 23:30	0°♋19'37	
	-11654 Jul 31 j 13:15	0°♋	
	-11654 Sep 09 j 01:40	0°♌	
	-11654 Oct 19 j 17:33	0°♍	
evening set	-11654 Nov 13 j 13:01	17°♍43'55	
	-11654 Dec 01 j 02:09	0°♎	
conjunction	-11653 Jan 06 j 04:52	24°♎35'10	-1°14'44
minimum elong	-11653 Jan 06 j 04:28	24°♎34'30	1°14'58
	-11653 Jan 14 j 07:37	0°♏	
max. Earth dist.	-11653 Jan 27 j 20:32	8°♏56'56	2.60808 AU
morning rise	-11653 Feb 26 j 05:29	28°♏04'05	
	-11653 Mar 01 j 05:27	0°♐	
	-11653 Apr 17 j 09:32	0°♑	
	-11653 Jun 04 j 14:05	0°♒	
	-11653 Jul 24 j 10:23	0°♓	
asc. node	-11653 Jul 31 j 07:03	3°♓58'57	
	-11653 Sep 17 j 19:30	0°♈	
retrograde	-11653 Nov 21 j 21:54	19°♈03'22	
opposition	-11653 Dec 25 j 00:22	12°♈42'34	6°18'56
greatest brilliancy	-11653 Dec 26 j 15:26	12°♈10'38	-2.3m
min. Earth dist.	-11652 Jan 01 j 20:36	10°♈09'39	0.45748 AU
direct	-11652 Jan 30 j 08:01	5°♈00'45	
	-11652 Apr 09 j 06:00	0°♉	
	-11652 May 25 j 10:07	0°♊	
desc. node	-11652 Jun 18 j 04:25	16°♊47'02	
	-11652 Jul 06 j 12:49	0°♋	
	-11652 Aug 16 j 23:48	0°♌	
	-11652 Sep 28 j 02:40	0°♍	
	-11652 Nov 10 j 13:28	0°♎	
	-11652 Dec 25 j 12:23	0°♏	
evening set	-11652 Dec 29 j 06:45	2°♏28'14	
	-11651 Feb 09 j 17:10	0°♐	
conjunction	-11651 Feb 16 j 18:26	4°♐32'02	-1°01'25
minimum elong	-11651 Feb 16 j 19:56	4°♐34'26	1°01'59
max. Earth dist.	-11651 Feb 21 j 21:19	7°♐49'10	2.65886 AU
	-11651 Mar 28 j 13:08	0°♑	
morning rise	-11651 Apr 05 j 10:39	5°♑02'58	
	-11651 May 14 j 08:34	0°♒	
asc. node	-11651 Jun 16 j 23:20	21°♒42'02	
	-11651 Jun 29 j 18:30	0°♓	
	-11651 Aug 14 j 21:43	0°♈	
	-11651 Sep 30 j 13:28	0°♉	
	-11651 Nov 19 j 05:51	0°♊	
retrograde	-11650 Feb 04 j 12:27	27°♊28'15	
opposition	-11650 Mar 07 j 14:57	22°♊12'35	4°29'34
min. Earth dist.	-11650 Mar 06 j 22:02	22°♊24'00	0.38391 AU
greatest brilliancy	-11650 Mar 07 j 17:08	22°♊11'07	-2.9m
direct	-11650 Apr 07 j 02:05	17°♊05'23	
desc. node	-11650 May 06 j 10:56	22°♊15'11	
	-11650 May 25 j 21:03	0°♋	
	-11650 Jul 18 j 22:11	0°♌	
	-11650 Sep 04 j 04:02	0°♍	
	-11650 Oct 20 j 10:46	0°♎	
	-11650 Dec 06 j 01:17	0°♏	
	-11649 Jan 22 j 03:01	0°♐	
evening set	-11649 Feb 07 j 23:56	10°♐43'54	
	-11649 Mar 10 j 04:32	0°♑	
max. Earth dist.	-11649 Mar 18 j 15:35	5°♑25'39	2.65629 AU
conjunction	-11649 Mar 28 j 00:06	11°♑27'01	-0°22'23
minimum elong	-11649 Mar 28 j 00:59	11°♑28'27	0°23'02
	-11649 Apr 25 j 13:30	0°♒	
asc. node	-11649 May 04 j 15:23	5°♒57'32	
morning rise	-11649 May 13 j 22:25	12°♒05'42	
	-11649 Jun 09 j 17:13	0°♓	
	-11649 Jul 23 j 11:13	0°♈	
	-11649 Sep 03 j 23:52	0°♉	
	-11649 Oct 15 j 18:01	0°♊	
	-11649 Nov 26 j 14:38	0°♋	
	-11648 Jan 09 j 12:01	0°♌	
	-11648 Mar 03 j 15:10	0°♍	
desc. node	-11648 Mar 23 j 12:53	6°♍31'36	
retrograde	-11648 Apr 10 j 02:10	8°♍37'37	
min. Earth dist.	-11648 May 08 j 14:11	3°♍14'12	0.46389 AU
opposition	-11648 May 16 j 14:29	0°♍29'03	-3°22'09
greatest brilliancy	-11648 May 15 j 13:23	0°♍50'40	-2.4m
	-11648 May 18 j 00:28	30°℞♌	
direct	-11648 Jun 18 j 11:06	23°♌50'13	
	-11648 Jul 21 j 16:27	0°♍	
	-11648 Sep 22 j 23:54	0°♎	
	-11648 Nov 13 j 11:27	0°♏	
	-11647 Jan 01 j 16:14	0°♐	
	-11647 Feb 18 j 15:08	0°♑	
evening set	-11647 Mar 18 j 12:35	17°♑51'54	
asc. node	-11647 Mar 21 j 11:27	19°♑46'39	
	-11647 Apr 06 j 03:11	0°♒	
max. Earth dist.	-11647 Apr 12 j 22:28	4°♒29'04	2.60129 AU
conjunction	-11647 May 06 j 09:06	20°♒09'36	0°27'48
minimum elong	-11647 May 06 j 07:57	20°♒07'39	0°27'20
	-11647 May 20 j 19:51	0°♓	
morning rise	-11647 Jun 24 j 10:27	24°♓10'24	
	-11647 Jul 02 j 14:21	0°♈	
	-11647 Aug 12 j 16:25	0°♉	
	-11647 Sep 21 j 14:06	0°♊	
	-11647 Oct 31 j 00:47	0°♋	
	-11647 Dec 09 j 23:25	0°♌	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11646 Jan 20 j 19:21	0°♍	
desc. node	-11646 Feb 08 j 09:55	12°♍32'09	
	-11646 Mar 08 j 10:49	0°♎	
retrograde	-11646 May 25 j 21:12	28°♎36'57	
min. Earth dist.	-11646 Jun 28 j 09:05	21°♎11'13	0.58134 AU
greatest brilliancy	-11646 Jul 03 j 04:57	19°♎18'12	-1.7m
opposition	-11646 Jul 04 j 06:35	18°♎53'08	-5°26'11
direct	-11646 Aug 09 j 21:10	10°♎30'53	
	-11646 Oct 15 j 07:33	0°♏	
	-11646 Dec 10 j 17:27	0°♐	
	-11645 Jan 30 j 01:09	0°♑	
asc. node	-11645 Feb 06 j 12:21	4°♑37'22	
	-11645 Mar 18 j 08:36	0°♒	
evening set	-11645 Apr 30 j 11:43	28°♒53'02	
	-11645 May 02 j 02:37	0°♓	
max. Earth dist.	-11645 May 16 j 23:07	10°♓20'08	2.50026 AU
	-11645 Jun 13 j 12:01	0°♈	
conjunction	-11645 Jun 22 j 01:07	6°♈13'55	1°08'28
minimum elong	-11645 Jun 21 j 23:34	6°♈11'04	1°08'30
	-11645 Jul 23 j 22:49	0°♉	
morning rise	-11645 Aug 16 j 17:01	18°♉07'43	
	-11645 Sep 01 j 02:07	0°♊	
	-11645 Oct 09 j 17:02	0°♋	
	-11645 Nov 17 j 16:42	0°♌	
desc. node	-11645 Dec 27 j 04:26	29°♌24'51	
	-11645 Dec 27 j 23:47	0°♍	
	-11644 Feb 08 j 17:21	0°♎	
	-11644 Mar 26 j 19:58	0°♏	
	-11644 May 26 j 11:48	0°♐	
retrograde	-11644 Jul 01 j 04:13	7°♐01'23	
	-11644 Aug 02 j 23:07	30°℞♏	
min. Earth dist.	-11644 Aug 08 j 00:31	27°♏59'58	0.65182 AU
opposition	-11644 Aug 10 j 03:51	27°♏08'19	-4°32'20
greatest brilliancy	-11644 Aug 09 j 20:39	27°♏15'34	-1.4m
direct	-11644 Sep 18 j 07:28	17°♏45'37	
	-11644 Nov 07 j 23:25	0°♐	
asc. node	-11644 Dec 24 j 17:34	22°♐49'20	
	-11643 Jan 06 j 14:34	0°♑	
	-11643 Feb 25 j 08:27	0°♒	
	-11643 Apr 11 j 20:21	0°♓	
	-11643 May 24 j 07:40	0°♈	
evening set	-11643 Jun 20 j 10:25	20°♈04'01	
	-11643 Jul 03 j 13:28	0°♉	
max. Earth dist.	-11643 Jul 29 j 18:07	20°♉09'35	2.38921 AU
	-11643 Aug 11 j 09:19	0°♊	
conjunction	-11643 Aug 18 j 23:58	5°♊57'03	0°57'38
minimum elong	-11643 Aug 19 j 03:07	6°♊03'13	0°58'11
	-11643 Sep 18 j 16:41	0°♋	
morning rise	-11643 Oct 22 j 07:06	26°♋05'47	
	-11643 Oct 27 j 09:11	0°♌	
desc. node	-11643 Nov 12 j 21:07	12°♌32'54	
	-11643 Dec 06 j 07:00	0°♍	
	-11642 Jan 17 j 04:24	0°♎	
	-11642 Mar 02 j 19:04	0°♏	
	-11642 Apr 20 j 10:07	0°♐	
	-11642 Jun 18 j 04:25	0°♑	
retrograde	-11642 Aug 05 j 10:18	11°♑29'47	
opposition	-11642 Sep 13 j 19:05	2°♑03'28	-2°18'53
greatest brilliancy	-11642 Sep 13 j 22:51	1°♑59'42	-1.4m
min. Earth dist.	-11642 Sep 15 j 10:18	1°♑24'16	0.66139 AU
	-11642 Sep 18 j 23:17	30°℞♐	
direct	-11642 Oct 24 j 09:35	22°♐09'26	
asc. node	-11642 Nov 12 j 00:08	24°♐10'26	
	-11642 Dec 02 j 07:18	0°♑	
	-11641 Feb 01 j 20:21	0°♒	
	-11641 Mar 21 j 22:52	0°♓	
	-11641 May 04 j 06:10	0°♈	
	-11641 Jun 13 j 17:58	0°♉	
	-11641 Jul 22 j 15:12	0°♊	
evening set	-11641 Aug 23 j 01:22	24°♊35'53	
	-11641 Aug 29 j 23:04	0°♋	
desc. node	-11641 Sep 30 j 15:57	24°♋36'44	
	-11641 Oct 07 j 16:32	0°♌	
conjunction	-11641 Oct 24 j 08:42	12°♌39'59	-0°17'42
minimum elong	-11641 Oct 24 j 07:16	12°♌37'16	0°17'11
	-11641 Nov 16 j 15:13	0°♍	
max. Earth dist.	-11641 Dec 07 j 15:41	15°♍16'27	2.46030 AU
morning rise	-11641 Dec 24 j 04:37	27°♍01'43	
	-11641 Dec 28 j 10:15	0°♎	
	-11640 Feb 10 j 10:41	0°♏	
	-11640 Mar 27 j 22:18	0°♐	
	-11640 May 16 j 13:09	0°♑	
	-11640 Jul 12 j 08:12	0°♒	
retrograde	-11640 Sep 11 j 14:07	16°♒55'47	
asc. node	-11640 Sep 29 j 02:53	14°♒56'18	
opposition	-11640 Oct 19 j 06:45	8°♒21'24	0°52'49
greatest brilliancy	-11640 Oct 19 j 10:17	8°♒17'59	-1.6m
min. Earth dist.	-11640 Oct 24 j 12:59	6°♒19'22	0.60997 AU
	-11640 Nov 13 j 20:53	30°℞♑	
direct	-11640 Nov 28 j 23:08	28°♑28'40	
	-11640 Dec 14 j 16:09	0°♒	
	-11639 Feb 22 j 19:41	0°♓	
	-11639 Apr 10 j 14:03	0°♈	
	-11639 May 22 j 08:25	0°♉	
	-11639 Jun 30 j 21:27	0°♊	
	-11639 Aug 08 j 16:47	0°♋	
desc. node	-11639 Aug 17 j 16:51	6°♋56'47	
	-11639 Sep 16 j 20:34	0°♌	
evening set	-11639 Oct 23 j 11:48	27°♌17'30	
	-11639 Oct 27 j 04:46	0°♍	
	-11639 Dec 08 j 07:04	0°♎	
conjunction	-11639 Dec 18 j 15:31	7°♎10'11	-1°09'09
minimum elong	-11639 Dec 18 j 13:53	7°♎07'21	1°09'12
max. Earth dist.	-11638 Jan 16 j 06:50	26°♎36'33	2.57440 AU
	-11638 Jan 21 j 08:42	0°♏	
morning rise	-11638 Feb 09 j 20:31	12°♏52'15	
	-11638 Mar 08 j 06:52	0°♐	
	-11638 Apr 24 j 19:11	0°♑	
	-11638 Jun 13 j 01:04	0°♒	
	-11638 Aug 05 j 00:41	0°♓	
asc. node	-11638 Aug 17 j 00:47	6°♓09'25	
retrograde	-11638 Oct 29 j 09:29	28°♓59'48	
opposition	-11638 Dec 03 j 01:00	21°♓52'50	4°52'48
greatest brilliancy	-11638 Dec 04 j 07:02	21°♓26'25	-2.1m
min. Earth dist.	-11638 Dec 10 j 22:43	19°♓06'19	0.50558 AU
direct	-11637 Jan 10 j 09:42	13°♓09'53	
	-11637 Mar 07 j 08:28	0°♈	
	-11637 Apr 25 j 15:23	0°♉	
	-11637 Jun 06 j 22:47	0°♊	
desc. node	-11637 Jul 05 j 21:05	21°♊24'29	
	-11637 Jul 17 j 09:33	0°♋	
	-11637 Aug 26 j 19:19	0°♌	
	-11637 Oct 07 j 03:55	0°♍	
	-11637 Nov 19 j 01:14	0°♎	
evening set	-11637 Dec 13 j 02:49	16°♎19'58	
	-11636 Jan 02 j 15:04	0°♏	
conjunction	-11636 Feb 01 j 21:24	19°♏49'06	-1°10'30
minimum elong	-11636 Feb 01 j 22:28	19°♏50'51	1°10'58
max. Earth dist.	-11636 Feb 13 j 07:30	27°♏12'38	2.64508 AU

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11636 Feb 17 j 15:18	0°♐	
morning rise	-11636 Mar 21 j 13:16	21°♐05'53	
	-11636 Apr 04 j 12:22	0°♑	
	-11636 May 21 j 16:59	0°♒	
asc. node	-11636 Jul 03 j 18:05	27°♒17'40	
	-11636 Jul 08 j 00:53	0°♓	
	-11636 Aug 25 j 02:32	0°♈	
	-11636 Oct 15 j 09:33	0°♉	
retrograde	-11635 Jan 04 j 13:12	28°♉10'49	
opposition	-11635 Feb 04 j 10:09	22°♉56'10	6°42'24
greatest brilliancy	-11635 Feb 05 j 12:57	22°♉37'34	-2.7m
min. Earth dist.	-11635 Feb 08 j 17:24	21°♉44'36	0.39675 AU
direct	-11635 Mar 08 j 15:28	17°♉11'30	
	-11635 Apr 25 j 04:39	0°♊	
desc. node	-11635 May 23 j 02:11	14°♊58'27	
	-11635 Jun 16 j 10:38	0°♋	
	-11635 Jul 31 j 17:05	0°♌	
	-11635 Sep 13 j 23:27	0°♍	
	-11635 Oct 28 j 18:08	0°♎	
	-11635 Dec 13 j 12:42	0°♏	
evening set	-11634 Jan 23 j 13:04	26°♏24'25	
	-11634 Jan 29 j 03:48	0°♐	
max. Earth dist.	-11634 Mar 08 j 23:56	24°♐50'02	2.66360 AU
conjunction	-11634 Mar 12 j 20:39	27°♐18'28	-0°39'38
minimum elong	-11634 Mar 12 j 22:02	27°♐20'40	0°40'17
	-11634 Mar 17 j 01:31	0°♑	
morning rise	-11634 Apr 28 j 18:59	27°♑33'35	
	-11634 May 02 j 12:57	0°♒	
asc. node	-11634 May 21 j 10:13	12°♒21'26	
	-11634 Jun 17 j 01:38	0°♓	
	-11634 Jul 31 j 12:07	0°♈	
	-11634 Sep 13 j 02:03	0°♉	
	-11634 Oct 26 j 09:39	0°♊	
	-11634 Dec 09 j 21:18	0°♋	
	-11633 Jan 30 j 02:49	0°♌	
retrograde	-11633 Mar 19 j 17:49	13°♌36'01	
desc. node	-11633 Apr 10 j 06:03	10°♌30'21	
min. Earth dist.	-11633 Apr 16 j 03:51	8°♌49'00	0.41893 AU
opposition	-11633 Apr 23 j 00:23	6°♌41'25	-0°55'30
greatest brilliancy	-11633 Apr 22 j 17:46	6°♌46'35	-2.7m
direct	-11633 May 24 j 09:52	0°♌52'36	
	-11633 Aug 14 j 17:38	0°♍	
	-11633 Oct 05 j 05:14	0°♎	
	-11633 Nov 23 j 00:38	0°♏	
	-11632 Jan 10 j 03:39	0°♐	
	-11632 Feb 26 j 15:46	0°♑	
evening set	-11632 Mar 03 j 00:06	3°♑24'49	
max. Earth dist.	-11632 Apr 02 j 08:40	23°♑00'07	2.62879 AU
asc. node	-11632 Apr 07 j 04:38	26°♑09'23	
	-11632 Apr 13 j 01:20	0°♒	
conjunction	-11632 Apr 20 j 05:59	4°♒44'24	0°08'01
minimum elong	-11632 Apr 20 j 05:40	4°♒43'51	0°07'27
behind sun begin	-11632 Apr 19 j 11:42	4°♒14'13	
behind sun end	-11632 Apr 20 j 23:37	5°♒13'30	
	-11632 May 27 j 21:02	0°♓	
morning rise	-11632 Jun 07 j 01:44	6°♓59'35	
	-11632 Jul 09 j 22:55	0°♈	
	-11632 Aug 20 j 11:34	0°♉	
	-11632 Sep 29 j 22:05	0°♊	
	-11632 Nov 08 j 23:30	0°♋	
	-11632 Dec 19 j 17:55	0°♌	
	-11631 Feb 01 j 04:45	0°♍	
desc. node	-11631 Feb 25 j 05:39	14°♍53'40	
	-11631 Mar 26 j 04:42	0°♎	
retrograde	-11631 May 09 j 13:47	11°♎17'48	
min. Earth dist.	-11631 Jun 10 j 01:02	4°♎39'13	0.53885 AU
greatest brilliancy	-11631 Jun 15 j 22:30	2°♎25'46	-1.9m
opposition	-11631 Jun 17 j 05:09	1°♎56'43	-5°09'40
	-11631 Jun 22 j 11:30	30°℞♍	
direct	-11631 Jul 22 j 12:13	24°♍09'07	
	-11631 Aug 24 j 03:08	0°♎	
	-11631 Oct 28 j 04:35	0°♏	
	-11631 Dec 19 j 11:37	0°♐	
	-11630 Feb 06 j 14:32	0°♑	
asc. node	-11630 Feb 23 j 03:53	10°♑25'50	
	-11630 Mar 25 j 12:17	0°♒	
evening set	-11630 Apr 13 j 00:40	12°♒14'54	
max. Earth dist.	-11630 May 02 j 00:25	25°♒04'42	2.54429 AU
	-11630 May 09 j 04:41	0°♓	
conjunction	-11630 Jun 02 j 17:22	17°♓08'09	0°55'51
minimum elong	-11630 Jun 02 j 15:25	17°♓04'41	0°55'40
	-11630 Jun 20 j 16:40	0°♈	
morning rise	-11630 Jul 25 j 03:36	25°♈21'33	
	-11630 Jul 31 j 08:08	0°♉	
	-11630 Sep 08 j 17:03	0°♊	
	-11630 Oct 17 j 13:38	0°♋	
	-11630 Nov 25 j 19:17	0°♌	
	-11629 Jan 05 j 10:57	0°♍	
desc. node	-11629 Jan 12 j 23:51	5°♍22'48	
	-11629 Feb 17 j 23:34	0°♎	
	-11629 Apr 08 j 19:58	0°♏	
retrograde	-11629 Jun 18 j 05:38	23°♏02'48	
min. Earth dist.	-11629 Jul 24 j 12:39	14°♏34'36	0.63126 AU
opposition	-11629 Jul 28 j 03:35	13°♏07'37	-5°05'25
greatest brilliancy	-11629 Jul 27 j 13:20	13°♏21'54	-1.5m
direct	-11629 Sep 04 j 10:14	4°♏04'42	
	-11629 Nov 23 j 13:00	0°♐	
asc. node	-11628 Jan 11 j 07:32	26°♐52'08	
	-11628 Jan 16 j 14:59	0°♑	
	-11628 Mar 05 j 02:59	0°♒	
	-11628 Apr 19 j 05:54	0°♓	
evening set	-11628 May 29 j 16:32	28°♓34'24	
	-11628 May 31 j 15:39	0°♈	
max. Earth dist.	-11628 Jun 18 j 13:06	13°♈09'29	2.42716 AU
	-11628 Jul 10 j 22:38	0°♉	
conjunction	-11628 Jul 25 j 06:40	10°♉57'43	1°11'20
minimum elong	-11628 Jul 25 j 07:53	11°♉00'03	1°11'44
	-11628 Aug 18 j 20:31	0°♊	
morning rise	-11628 Sep 24 j 22:12	28°♊58'41	
	-11628 Sep 26 j 05:36	0°♋	
	-11628 Nov 03 j 23:21	0°♌	
desc. node	-11628 Nov 29 j 17:49	19°♌29'13	
	-11628 Dec 13 j 22:41	0°♍	
	-11627 Jan 25 j 00:01	0°♎	
	-11627 Mar 11 j 03:59	0°♏	
	-11627 Apr 30 j 19:21	0°♐	
retrograde	-11627 Jul 22 j 16:43	28°♐26'00	
opposition	-11627 Aug 31 j 10:14	18°♐46'13	-3°17'48
greatest brilliancy	-11627 Aug 31 j 11:21	18°♐45'06	-1.4m
min. Earth dist.	-11627 Aug 31 j 14:25	18°♐42'01	0.66506 AU
direct	-11627 Oct 10 j 14:17	9°♐01'14	
asc. node	-11627 Nov 28 j 13:22	20°♐37'36	
	-11627 Dec 19 j 08:47	0°♑	
	-11626 Feb 11 j 10:28	0°♒	
	-11626 Mar 30 j 03:48	0°♓	
	-11626 May 12 j 00:52	0°♈	
	-11626 Jun 21 j 09:15	0°♉	
evening set	-11626 Jul 28 j 04:53	28°♉25'39	
	-11626 Jul 30 j 05:12	0°♊	
	-11626 Sep 06 j 11:57	0°♋	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11626 Sep 28 j 19:54	17°♋24'21	0°14'13
minimum elong	-11626 Sep 28 j 21:15	17°♋26'58	0°14'51
behind sun begin	-11626 Sep 28 j 10:09	17°♋05'28	
behind sun end	-11626 Sep 29 j 08:21	17°♋48'28	
	-11626 Oct 15 j 03:54	0°♌	
desc. node	-11626 Oct 17 j 12:21	1°♌48'01	
max. Earth dist.	-11626 Nov 08 j 18:37	18°♌39'39	2.41237 AU
	-11626 Nov 24 j 00:53	0°♍	
morning rise	-11626 Dec 01 j 11:57	5°♍28'29	
	-11625 Jan 04 j 18:49	0°♎	
	-11625 Feb 17 j 21:33	0°♏	
	-11625 Apr 05 j 21:04	0°♐	
	-11625 May 27 j 07:14	0°♑	
	-11625 Aug 05 j 08:10	0°♒	
retrograde	-11625 Aug 28 j 02:20	2°♒55'57	
	-11625 Sep 18 j 07:24	30°℞♑	
opposition	-11625 Oct 05 j 13:51	23°♑57'58	-0°28'08
greatest brilliancy	-11625 Oct 05 j 15:44	23°♑56'07	-1.5m
min. Earth dist.	-11625 Oct 09 j 10:57	22°♑26'22	0.63708 AU
asc. node	-11625 Oct 16 j 17:40	19°♑41'03	
direct	-11625 Nov 15 j 10:13	13°♑59'29	
	-11624 Jan 12 j 04:48	0°♒	
	-11624 Mar 05 j 21:35	0°♓	
	-11624 Apr 19 j 16:56	0°♈	
	-11624 May 30 j 18:53	0°♉	
	-11624 Jul 08 j 23:36	0°♊	
	-11624 Aug 16 j 12:50	0°♋	
desc. node	-11624 Sep 03 j 09:46	13°♋51'03	
	-11624 Sep 24 j 11:05	0°♌	
evening set	-11624 Sep 30 j 10:00	4°♌31'18	
	-11624 Nov 03 j 14:10	0°♍	
conjunction	-11624 Nov 28 j 06:56	17°♍51'01	-0°55'41
minimum elong	-11624 Nov 28 j 04:20	17°♍46'22	0°55'28
	-11624 Dec 15 j 12:03	0°♎	
max. Earth dist.	-11623 Jan 02 j 21:12	12°♎42'54	2.53358 AU
morning rise	-11623 Jan 23 j 04:56	26°♎28'42	
	-11623 Jan 28 j 11:24	0°♏	
	-11623 Mar 15 j 11:50	0°♐	
	-11623 May 02 j 12:53	0°♑	
	-11623 Jun 22 j 10:35	0°♒	
	-11623 Aug 21 j 08:45	0°♓	
asc. node	-11623 Sep 02 j 17:30	4°♓37'28	
retrograde	-11623 Oct 09 j 00:42	11°♓29'31	
opposition	-11623 Nov 14 j 01:17	3°♓43'00	3°16'28
greatest brilliancy	-11623 Nov 14 j 19:22	3°♓26'17	-1.9m
min. Earth dist.	-11623 Nov 21 j 04:53	1°♓04'32	0.55133 AU
	-11623 Nov 24 j 05:14	30°℞♒	
direct	-11623 Dec 23 j 17:39	24°♒20'02	
	-11622 Jan 23 j 14:43	0°♓	
	-11622 Mar 23 j 16:22	0°♈	
	-11622 May 07 j 00:57	0°♉	
	-11622 Jun 16 j 17:50	0°♊	
desc. node	-11622 Jul 22 j 12:14	27°♊07'24	
	-11622 Jul 26 j 07:02	0°♋	
	-11622 Sep 04 j 01:01	0°♌	
	-11622 Oct 14 j 21:13	0°♍	
evening set	-11622 Nov 24 j 17:12	28°♍51'23	
	-11622 Nov 26 j 08:53	0°♎	
	-11621 Jan 09 j 16:16	0°♏	
conjunction	-11621 Jan 16 j 05:14	4°♏20'00	-1°14'49
minimum elong	-11621 Jan 16 j 05:29	4°♏20'25	1°15'09
max. Earth dist.	-11621 Feb 03 j 03:45	16°♏06'33	2.62348 AU
	-11621 Feb 24 j 13:56	0°♐	
morning rise	-11621 Mar 07 j 06:41	6°♐52'34	
	-11621 Apr 12 j 14:23	0°♑	
	-11621 May 30 j 08:20	0°♒	
	-11621 Jul 18 j 00:57	0°♓	
asc. node	-11621 Jul 21 j 12:52	2°♓06'44	
	-11621 Sep 07 j 14:25	0°♈	
	-11621 Nov 16 j 19:52	0°♉	
retrograde	-11621 Dec 06 j 21:13	2°♉21'07	
	-11621 Dec 26 j 10:59	30°℞♈	
opposition	-11620 Jan 08 j 04:08	26°♈26'55	6°50'52
greatest brilliancy	-11620 Jan 09 j 19:41	25°♈56'23	-2.5m
min. Earth dist.	-11620 Jan 15 j 09:14	24°♈14'17	0.43265 AU
direct	-11620 Feb 12 j 01:17	19°♈27'13	
	-11620 Mar 25 j 08:06	0°♉	
	-11620 May 16 j 21:53	0°♊	
desc. node	-11620 Jun 08 j 17:52	15°♊20'52	
	-11620 Jun 29 j 18:59	0°♋	
	-11620 Aug 11 j 03:25	0°♌	
	-11620 Sep 22 j 19:44	0°♍	
	-11620 Nov 05 j 14:58	0°♎	
	-11620 Dec 20 j 19:15	0°♏	
evening set	-11619 Jan 07 j 16:05	11°♏38'40	
	-11619 Feb 05 j 02:40	0°♐	
conjunction	-11619 Feb 25 j 15:14	13°♐09'39	-0°54'21
minimum elong	-11619 Feb 25 j 16:48	13°♐12'09	0°54'57
max. Earth dist.	-11619 Feb 27 j 12:01	14°♐21'20	2.66283 AU
	-11619 Mar 23 j 22:42	0°♑	
morning rise	-11619 Apr 13 j 22:39	13°♑27'37	
	-11619 May 09 j 14:49	0°♒	
asc. node	-11619 Jun 07 j 05:19	18°♒34'51	
	-11619 Jun 24 j 15:52	0°♓	
	-11619 Aug 09 j 01:33	0°♈	
	-11619 Sep 23 j 06:50	0°♉	
	-11619 Nov 08 j 13:32	0°♊	
	-11619 Dec 30 j 19:56	0°♋	
retrograde	-11618 Feb 21 j 09:23	14°♋58'09	
min. Earth dist.	-11618 Mar 21 j 19:08	10°♋15'32	0.38947 AU
opposition	-11618 Mar 25 j 06:57	9°♋17'27	2°31'14
greatest brilliancy	-11618 Mar 25 j 02:20	9°♋20'39	-2.9m
direct	-11618 Apr 24 j 15:24	4°♋06'29	
desc. node	-11618 Apr 26 j 22:01	4°♋08'28	
	-11618 Jul 08 j 16:06	0°♌	
	-11618 Aug 28 j 06:03	0°♍	
	-11618 Oct 14 j 19:12	0°♎	
	-11618 Dec 01 j 00:33	0°♏	
	-11617 Jan 17 j 09:38	0°♐	
evening set	-11617 Feb 16 j 18:04	19°♐15'16	
	-11617 Mar 05 j 14:20	0°♑	
max. Earth dist.	-11617 Mar 24 j 08:50	12°♑03'13	2.64885 AU
conjunction	-11617 Apr 05 j 17:32	20°♑03'16	-0°11'37
minimum elong	-11617 Apr 05 j 18:02	20°♑04'04	0°12'14
behind sun begin	-11617 Apr 05 j 05:15	19°♑43'20	
behind sun end	-11617 Apr 06 j 06:48	20°♑24'47	
	-11617 Apr 20 j 23:32	0°♒	
asc. node	-11617 Apr 24 j 22:21	2°♒35'37	
morning rise	-11617 May 22 j 20:02	21°♒06'50	
	-11617 Jun 05 j 00:21	0°♓	
	-11617 Jul 18 j 12:24	0°♈	
	-11617 Aug 29 j 15:21	0°♉	
	-11617 Oct 09 j 19:59	0°♊	
	-11617 Nov 19 j 20:17	0°♋	
	-11616 Jan 01 j 02:46	0°♌	
	-11616 Feb 17 j 11:58	0°♍	
desc. node	-11616 Mar 13 j 23:14	12°♍37'39	
retrograde	-11616 Apr 21 j 12:10	21°♍38'05	
min. Earth dist.	-11616 May 20 j 22:46	15°♍49'19	0.49102 AU
opposition	-11616 May 28 j 22:54	12°♍57'30	-4°16'22

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

greatest brilliancy	-11616 May 27 j 16:49	13°♍24'31	-2.2m
direct	-11616 Jul 01 j 17:34	5°♍52'08	
	-11616 Sep 14 j 08:11	0°♎	
	-11616 Nov 07 j 11:37	0°♏	
	-11616 Dec 27 j 13:25	0°♐	
	-11615 Feb 13 j 21:04	0°♑	
asc. node	-11615 Mar 11 j 19:08	16°♑31'33	
evening set	-11615 Mar 27 j 15:08	26°♑47'46	
	-11615 Apr 01 j 12:33	0°♒	
max. Earth dist.	-11615 Apr 19 j 14:53	11°♒58'58	2.58298 AU
conjunction	-11615 May 15 j 23:43	29°♒50'23	0°38'44
minimum elong	-11615 May 15 j 22:09	29°♒47'41	0°38'22
	-11615 May 16 j 05:19	0°♓	
	-11615 Jun 27 j 21:53	0°♈	
morning rise	-11615 Jul 04 j 23:57	5°♈06'43	
	-11615 Aug 07 j 20:16	0°♉	
	-11615 Sep 16 j 13:16	0°♊	
	-11615 Oct 25 j 18:09	0°♋	
	-11615 Dec 04 j 08:57	0°♌	
	-11614 Jan 14 j 14:55	0°♍	
desc. node	-11614 Jan 29 j 21:12	10°♍34'35	
	-11614 Feb 28 j 14:48	0°♎	
	-11614 Apr 26 j 20:57	0°♏	
retrograde	-11614 Jun 03 j 16:54	8°♏09'29	
min. Earth dist.	-11614 Jul 08 j 05:33	0°♏19'51	0.60137 AU
	-11614 Jul 09 j 01:46	30°℞♎	
greatest brilliancy	-11614 Jul 12 j 10:07	28°♎40'32	-1.6m
opposition	-11614 Jul 13 j 07:53	28°♎18'59	-5°24'12
direct	-11614 Aug 19 j 13:34	19°♎40'39	
	-11614 Oct 04 j 03:01	0°♏	
	-11614 Dec 04 j 11:20	0°♐	
	-11613 Jan 24 j 20:39	0°♑	
asc. node	-11613 Jan 27 j 20:50	1°♑50'06	
	-11613 Mar 13 j 13:30	0°♒	
	-11613 Apr 27 j 10:46	0°♓	
evening set	-11613 May 11 j 00:22	9°♓25'12	
max. Earth dist.	-11613 May 27 j 05:15	20°♓53'22	2.47419 AU
	-11613 Jun 08 j 20:39	0°♈	
conjunction	-11613 Jul 03 j 20:26	18°♈24'34	1°12'25
minimum elong	-11613 Jul 03 j 19:36	18°♈23'01	1°12'35
	-11613 Jul 19 j 06:11	0°♉	
	-11613 Aug 27 j 07:36	0°♊	
morning rise	-11613 Aug 30 j 14:52	2°♊33'53	
	-11613 Oct 04 j 20:11	0°♋	
	-11613 Nov 12 j 17:03	0°♌	
desc. node	-11613 Dec 17 j 14:18	26°♌09'22	
	-11613 Dec 22 j 20:12	0°♍	
	-11612 Feb 03 j 05:21	0°♎	
	-11612 Mar 20 j 08:24	0°♏	
	-11612 May 14 j 03:57	0°♐	
retrograde	-11612 Jul 09 j 02:18	15°♐13'07	
min. Earth dist.	-11612 Aug 16 j 17:00	5°♐55'22	0.65907 AU
opposition	-11612 Aug 18 j 00:25	5°♐23'43	-4°07'50
greatest brilliancy	-11612 Aug 17 j 20:40	5°♐27'30	-1.4m
	-11612 Sep 01 j 10:25	30°℞♏	
direct	-11612 Sep 26 j 13:31	25°♏52'00	
	-11612 Oct 24 j 01:18	0°♐	
asc. node	-11612 Dec 15 j 02:30	21°♐32'29	
	-11612 Dec 31 j 02:26	0°♑	
	-11611 Feb 20 j 01:12	0°♒	
	-11611 Apr 06 j 22:45	0°♓	
	-11611 May 19 j 13:48	0°♈	
	-11611 Jun 28 j 20:36	0°♉	
evening set	-11611 Jul 03 j 13:53	3°♉36'02	
	-11611 Aug 06 j 16:24	0°♊	

conjunction	-11611 Sep 02 j 14:29	21°♊05'47	0°44'19
minimum elong	-11611 Sep 02 j 17:47	21°♊12'15	0°44'55
max. Earth dist.	-11611 Sep 10 j 10:12	27°♊13'44	2.38295 AU
	-11611 Sep 13 j 23:05	0°♋	
	-11611 Oct 22 j 14:35	0°♌	
desc. node	-11611 Nov 03 j 07:07	8°♌55'07	
morning rise	-11611 Nov 06 j 09:24	11°♌15'55	
	-11611 Dec 01 j 11:09	0°♍	
	-11610 Jan 12 j 05:55	0°♎	
	-11610 Feb 25 j 14:09	0°♏	
	-11610 Apr 14 j 09:40	0°♐	
	-11610 Jun 08 j 04:43	0°♑	
retrograde	-11610 Aug 13 j 13:22	19°♑31'11	
opposition	-11610 Sep 21 j 15:30	10°♑14'04	-1°40'35
greatest brilliancy	-11610 Sep 21 j 19:31	10°♑10'04	-1.4m
min. Earth dist.	-11610 Sep 24 j 02:10	9°♑15'39	0.65522 AU
direct	-11610 Nov 01 j 09:22	0°♑17'00	
asc. node	-11610 Nov 02 j 08:08	0°♑17'21	
	-11609 Jan 25 j 19:48	0°♒	
	-11609 Mar 16 j 08:23	0°♓	
	-11609 Apr 29 j 03:01	0°♈	
	-11609 Jun 08 j 19:36	0°♉	
	-11609 Jul 17 j 19:26	0°♊	
	-11609 Aug 25 j 04:47	0°♋	
evening set	-11609 Sep 06 j 13:32	9°♋38'05	
desc. node	-11609 Sep 21 j 03:47	20°♋56'06	
	-11609 Oct 02 j 23:05	0°♌	
conjunction	-11609 Nov 06 j 22:27	26°♌19'04	-0°33'39
minimum elong	-11609 Nov 06 j 20:03	26°♌14'39	0°33'14
	-11609 Nov 11 j 22:18	0°♍	
max. Earth dist.	-11609 Dec 18 j 20:39	26°♍35'35	2.48717 AU
	-11609 Dec 23 j 17:02	0°♎	
morning rise	-11608 Jan 04 j 23:50	8°♎32'30	
	-11608 Feb 05 j 15:39	0°♏	
	-11608 Mar 22 j 21:16	0°♐	
	-11608 May 10 j 18:18	0°♑	
	-11608 Jul 03 j 13:02	0°♒	
asc. node	-11608 Sep 19 j 10:24	25°♒46'42	
retrograde	-11608 Sep 21 j 02:18	25°♒47'43	
opposition	-11608 Oct 28 j 05:57	17°♒28'49	1°43'21
greatest brilliancy	-11608 Oct 28 j 13:52	17°♒21'16	-1.7m
min. Earth dist.	-11608 Nov 03 j 05:39	15°♒11'37	0.59104 AU
direct	-11608 Dec 07 j 16:17	7°♒43'10	
	-11607 Feb 14 j 06:50	0°♓	
	-11607 Apr 04 j 06:48	0°♈	
	-11607 May 16 j 17:31	0°♉	
	-11607 Jun 25 j 14:38	0°♊	
	-11607 Aug 03 j 15:11	0°♋	
desc. node	-11607 Aug 08 j 04:23	3°♋29'53	
	-11607 Sep 11 j 22:53	0°♌	
	-11607 Oct 22 j 10:18	0°♍	
evening set	-11607 Nov 04 j 16:44	9°♍34'56	
	-11607 Dec 03 j 14:41	0°♎	
conjunction	-11607 Dec 29 j 10:15	17°♎42'56	-1°13'12
minimum elong	-11607 Dec 29 j 09:19	17°♎41'21	1°13'22
	-11606 Jan 16 j 17:13	0°♏	
max. Earth dist.	-11606 Jan 23 j 03:14	4°♏15'46	2.59396 AU
morning rise	-11606 Feb 19 j 08:52	22°♏06'36	
	-11606 Mar 03 j 13:58	0°♐	
	-11606 Apr 19 j 20:40	0°♑	
	-11606 Jun 07 j 10:30	0°♒	
	-11606 Jul 28 j 08:38	0°♓	
asc. node	-11606 Aug 07 j 07:35	5°♓32'27	
	-11606 Sep 26 j 13:50	0°♈	
retrograde	-11606 Nov 11 j 06:00	10°♈24'23	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

opposition	-11606 Dec 15 j 01:33	3°♈42'06	5°44'08
greatest brilliancy	-11606 Dec 16 j 13:27	3°♈11'37	-2.2m
min. Earth dist.	-11606 Dec 23 j 01:55	0°♈59'42	0.47891 AU
	-11606 Dec 26 j 04:28	30°℞♓	
direct	-11605 Jan 21 j 08:53	25°♓30'12	
	-11605 Feb 17 j 01:52	0°♈	
	-11605 Apr 17 j 03:37	0°♉	
	-11605 May 31 j 04:39	0°♊	
desc. node	-11605 Jun 26 j 08:30	18°♊56'02	
	-11605 Jul 11 j 10:43	0°♋	
	-11605 Aug 21 j 08:25	0°♌	
	-11605 Oct 02 j 01:40	0°♍	
	-11605 Nov 14 j 04:58	0°♎	
evening set	-11605 Dec 23 j 02:23	26°♎08'06	
	-11605 Dec 28 j 22:46	0°♏	
conjunction	-11604 Feb 11 j 02:15	28°♏45'17	-1°05'44
minimum elong	-11604 Feb 11 j 03:38	28°♏47'30	1°06'16
	-11604 Feb 13 j 00:38	0°♐	
max. Earth dist.	-11604 Feb 19 j 01:14	3°♐52'36	2.65377 AU
morning rise	-11604 Mar 30 j 03:32	29°♐32'36	
	-11604 Mar 30 j 20:42	0°♑	
	-11604 May 16 j 19:55	0°♒	
asc. node	-11604 Jun 24 j 00:35	24°♒28'59	
	-11604 Jul 02 j 14:47	0°♓	
	-11604 Aug 18 j 11:57	0°♈	
	-11604 Oct 05 j 16:57	0°♉	
	-11604 Nov 29 j 07:08	0°♊	
retrograde	-11603 Jan 21 j 23:28	14°♊44'16	
opposition	-11603 Feb 21 j 18:37	9°♊35'54	5°42'54
greatest brilliancy	-11603 Feb 22 j 07:27	9°♊27'14	-2.8m
min. Earth dist.	-11603 Feb 23 j 10:35	9°♊08'55	0.38610 AU
direct	-11603 Mar 24 j 19:50	4°♊18'41	
desc. node	-11603 May 13 j 15:05	17°♊56'26	
	-11603 Jun 05 j 14:10	0°♋	
	-11603 Jul 24 j 07:17	0°♌	
	-11603 Sep 07 j 22:57	0°♍	
	-11603 Oct 23 j 10:59	0°♎	
	-11603 Dec 08 j 15:22	0°♏	
	-11602 Jan 24 j 11:40	0°♐	
evening set	-11602 Feb 01 j 11:33	5°♐05'51	
	-11602 Mar 12 j 11:29	0°♑	
max. Earth dist.	-11602 Mar 14 j 14:17	1°♑21'25	2.66068 AU
conjunction	-11602 Mar 21 j 13:44	5°♑50'02	-0°29'54
minimum elong	-11602 Mar 21 j 14:51	5°♑51'51	0°30'32
	-11602 Apr 27 j 21:54	0°♒	
morning rise	-11602 May 07 j 10:26	6°♒14'02	
asc. node	-11602 May 11 j 16:21	9°♒01'30	
	-11602 Jun 12 j 05:57	0°♓	
	-11602 Jul 26 j 07:30	0°♈	
	-11602 Sep 07 j 06:40	0°♉	
	-11602 Oct 19 j 15:28	0°♊	
	-11602 Dec 01 j 09:31	0°♋	
	-11601 Jan 16 j 05:41	0°♌	
desc. node	-11601 Mar 31 j 18:10	28°♌35'51	
retrograde	-11601 Apr 01 j 19:25	28°♌36'20	
min. Earth dist.	-11601 Apr 29 j 16:10	23°♌32'03	0.44262 AU
opposition	-11601 May 07 j 10:06	20°♌58'56	-2°27'32
greatest brilliancy	-11601 May 06 j 15:33	21°♌14'16	-2.5m
direct	-11601 Jun 08 j 13:28	14°♌42'41	
	-11601 Aug 03 j 05:35	0°♍	
	-11601 Sep 28 j 09:35	0°♎	
	-11601 Nov 17 j 13:01	0°♏	
	-11600 Jan 05 j 05:28	0°♐	
	-11600 Feb 21 j 23:46	0°♑	
evening set	-11600 Mar 11 j 21:11	12°♑04'29	
asc. node	-11600 Mar 28 j 11:17	22°♑48'22	
	-11600 Apr 08 j 11:28	0°♒	
max. Earth dist.	-11600 Apr 08 j 12:16	0°♒01'20	2.61466 AU
conjunction	-11600 Apr 29 j 09:42	13°♒51'54	0°19'28
minimum elong	-11600 Apr 29 j 08:53	13°♒50'33	0°18'57
	-11600 May 23 j 06:20	0°♓	
morning rise	-11600 Jun 16 j 19:30	16°♓59'41	
	-11600 Jul 05 j 05:01	0°♈	
	-11600 Aug 15 j 12:12	0°♉	
	-11600 Sep 24 j 15:36	0°♊	
	-11600 Nov 03 j 08:08	0°♋	
	-11600 Dec 13 j 13:27	0°♌	
	-11599 Jan 24 j 21:32	0°♍	
desc. node	-11599 Feb 15 j 15:52	14°♍16'46	
	-11599 Mar 14 j 04:39	0°♎	
retrograde	-11599 May 19 j 03:17	21°♎50'25	
min. Earth dist.	-11599 Jun 20 j 17:36	14°♎44'47	0.56319 AU
greatest brilliancy	-11599 Jun 26 j 00:46	12°♎42'15	-1.8m
opposition	-11599 Jun 27 j 05:03	12°♎14'54	-5°23'02
direct	-11599 Aug 02 j 05:54	4°♎07'07	
	-11599 Oct 20 j 10:54	0°♏	
	-11599 Dec 13 j 20:04	0°♐	
	-11598 Feb 01 j 15:12	0°♑	
asc. node	-11598 Feb 13 j 11:30	7°♑23'24	
	-11598 Mar 20 j 19:20	0°♒	
evening set	-11598 Apr 22 j 21:05	22°♒00'28	
	-11598 May 04 j 13:44	0°♓	
max. Earth dist.	-11598 May 10 j 08:08	3°♓58'55	2.52065 AU
conjunction	-11598 Jun 13 j 12:17	28°♓09'23	1°03'48
minimum elong	-11598 Jun 13 j 10:26	28°♓06'03	1°03'44
	-11598 Jun 16 j 01:30	0°♈	
	-11598 Jul 26 j 15:08	0°♉	
morning rise	-11598 Aug 06 j 14:20	8°♉18'09	
	-11598 Sep 03 j 21:21	0°♊	
	-11598 Oct 12 j 14:40	0°♋	
	-11598 Nov 20 j 16:05	0°♌	
	-11598 Dec 31 j 01:20	0°♍	
desc. node	-11597 Jan 03 j 10:47	2°♍27'05	
	-11597 Feb 11 j 23:58	0°♎	
	-11597 Mar 31 j 21:33	0°♏	
	-11597 Jun 10 j 06:49	0°♐	
retrograde	-11597 Jun 26 j 08:39	1°♐35'45	
	-11597 Jul 11 j 14:23	30°℞♏	
min. Earth dist.	-11597 Aug 02 j 12:31	22°♏48'24	0.64372 AU
opposition	-11597 Aug 05 j 07:32	21°♏41'01	-4°47'50
greatest brilliancy	-11597 Aug 04 j 21:21	21°♏51'16	-1.4m
direct	-11597 Sep 13 j 01:43	12°♏26'36	
	-11597 Nov 14 j 22:59	0°♐	
asc. node	-11596 Jan 01 j 16:08	24°♐45'11	
	-11596 Jan 10 j 20:06	0°♑	
	-11596 Feb 29 j 01:36	0°♒	
	-11596 Apr 14 j 10:42	0°♓	
	-11596 May 26 j 22:38	0°♈	
evening set	-11596 Jun 10 j 19:03	10°♈53'48	
	-11596 Jul 06 j 05:48	0°♉	
max. Earth dist.	-11596 Jul 07 j 07:47	0°♉49'27	2.40382 AU
conjunction	-11596 Aug 08 j 00:40	25°♉14'57	1°05'11
minimum elong	-11596 Aug 08 j 03:08	25°♉19'44	1°05'41
	-11596 Aug 14 j 03:03	0°♊	
	-11596 Sep 21 j 11:13	0°♋	
morning rise	-11596 Oct 10 j 09:09	14°♋44'40	
	-11596 Oct 30 j 03:38	0°♌	
desc. node	-11596 Nov 20 j 03:40	15°♌56'41	
	-11596 Dec 09 j 01:02	0°♍	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11595 Jan 19 j 22:26	0°♎		
	-11595 Mar 05 j 16:06	0°♏		
	-11595 Apr 23 j 21:19	0°♐		
	-11595 Jun 26 j 03:15	0°♑		
retrograde	-11595 Jul 30 j 14:21	6°♑22'42		
	-11595 Aug 31 j 01:01	30°℞♐		
opposition	-11595 Sep 08 j 03:08	26°♐49'59	-2°44'35	
greatest brilliancy	-11595 Sep 08 j 06:01	26°♐47'06	-1.4m	
min. Earth dist.	-11595 Sep 09 j 02:52	26°♐26'10	0.66421 AU	
direct	-11595 Oct 18 j 13:12	16°♐59'21		
asc. node	-11595 Nov 18 j 22:41	22°♐17'34		
	-11595 Dec 09 j 17:57	0°♑		
	-11594 Feb 05 j 09:45	0°♒		
	-11594 Mar 24 j 22:19	0°♓		
	-11594 May 07 j 02:20	0°♈		
	-11594 Jun 16 j 13:21	0°♉		
	-11594 Jul 25 j 10:20	0°♊		
evening set	-11594 Aug 11 j 18:39	13°♊34'39		
	-11594 Sep 01 j 17:35	0°♋		
desc. node	-11594 Oct 07 j 21:24	28°♋04'23		
	-11594 Oct 10 j 09:40	0°♌		
conjunction	-11594 Oct 13 j 11:52	2°♌21'58	-0°04'18	
minimum elong	-11594 Oct 13 j 11:31	2°♌21'18	0°03'43	
behind sun begin	-11594 Oct 12 j 09:23	1°♌31'21		
behind sun end	-11594 Oct 14 j 13:39	3°♌11'12		
	-11594 Nov 19 j 06:37	0°♍		
max. Earth dist.	-11594 Nov 27 j 04:50	5°♍48'51	2.43834 AU	
morning rise	-11594 Dec 14 j 17:18	18°♍28'42		
	-11594 Dec 30 j 23:51	0°♎		
	-11593 Feb 12 j 23:36	0°♏		
	-11593 Mar 31 j 14:07	0°♐		
	-11593 May 20 j 18:43	0°♑		
	-11593 Jul 19 j 16:14	0°♒		
retrograde	-11593 Sep 05 j 20:32	11°♒17'54		
asc. node	-11593 Oct 07 j 01:57	5°♒08'05		
opposition	-11593 Oct 13 j 21:55	2°♒32'26	0°17'37	
greatest brilliancy	-11593 Oct 13 j 22:59	2°♒31'23	-1.6m	
min. Earth dist.	-11593 Oct 18 j 13:25	0°♒43'36	0.62328 AU	
	-11593 Oct 20 j 10:40	30°℞♑		
direct	-11593 Nov 23 j 16:52	22°♑35'56		
	-11593 Dec 30 j 13:47	0°♒		
	-11592 Feb 28 j 04:54	0°♓		
	-11592 Apr 14 j 01:59	0°♈		
	-11592 May 25 j 13:27	0°♉		
	-11592 Jul 03 j 22:54	0°♊		
	-11592 Aug 11 j 15:10	0°♋		
desc. node	-11592 Aug 24 j 21:30	10°♋15'57		
	-11592 Sep 19 j 15:30	0°♌		
evening set	-11592 Oct 13 j 18:24	18°♌08'25		
	-11592 Oct 29 j 20:12	0°♍		
conjunction	-11592 Dec 10 j 03:26	29°♍32'36	-1°04'25	
minimum elong	-11592 Dec 10 j 01:18	29°♍28'52	1°04'21	
	-11592 Dec 10 j 19:07	0°♎		
max. Earth dist.	-11591 Jan 10 j 20:41	21°♎20'18	2.55696 AU	
	-11591 Jan 23 j 18:20	0°♏		
morning rise	-11591 Feb 02 j 12:03	6°♏27'56		
	-11591 Mar 10 j 16:10	0°♐		
	-11591 Apr 27 j 08:36	0°♑		
	-11591 Jun 16 j 04:16	0°♒		
	-11591 Aug 10 j 05:26	0°♓		
asc. node	-11591 Aug 24 j 00:44	6°♓27'27		
retrograde	-11591 Oct 20 j 06:53	21°♓37'33		
opposition	-11591 Nov 24 j 13:31	14°♓11'54	4°11'23	
greatest brilliancy	-11591 Nov 25 j 14:18	13°♓49'31	-2.0m	
min. Earth dist.	-11591 Dec 02 j 04:17	11°♓27'12	0.52669 AU	

direct	-11590 Jan 02 j 13:44	5°♓08'31		
	-11590 Mar 14 j 17:23	0°♈		
	-11590 Apr 30 j 08:09	0°♉		
	-11590 Jun 10 j 20:16	0°♊		
desc. node	-11590 Jul 13 j 01:28	24°♊08'14		
	-11590 Jul 20 j 20:20	0°♋		
	-11590 Aug 29 j 21:40	0°♌		
	-11590 Oct 09 j 23:18	0°♍		
	-11590 Nov 21 j 14:49	0°♎		
evening set	-11590 Dec 05 j 09:57	9°♎26'54		
	-11589 Jan 05 j 00:27	0°♏		
conjunction	-11589 Jan 25 j 21:52	13°♏45'20	-1°12'55	
minimum elong	-11589 Jan 25 j 22:39	13°♏46'36	1°13'21	
max. Earth dist.	-11589 Feb 09 j 06:15	23°♏05'42	2.63639 AU	
	-11589 Feb 19 j 22:30	0°♐		
morning rise	-11589 Mar 16 j 03:26	15°♐32'00		
	-11589 Apr 07 j 20:30	0°♑		
	-11589 May 25 j 06:14	0°♒		
asc. node	-11589 Jul 11 j 18:50	29°♒47'44		
	-11589 Jul 12 j 02:44	0°♓		
	-11589 Aug 30 j 09:46	0°♈		
	-11589 Oct 24 j 16:05	0°♉		
retrograde	-11589 Dec 23 j 05:30	16°♉49'41		
opposition	-11588 Jan 23 j 14:37	11°♉20'16	6°58'52	
greatest brilliancy	-11588 Jan 25 j 01:43	10°♉54'49	-2.6m	
min. Earth dist.	-11588 Jan 29 j 13:04	9°♉37'23	0.41069 AU	
direct	-11588 Feb 26 j 00:22	5°♉04'01		
	-11588 May 06 j 01:00	0°♊		
desc. node	-11588 May 30 j 06:14	14°♊53'02		
	-11588 Jun 22 j 04:01	0°♋		
	-11588 Aug 04 j 20:52	0°♌		
	-11588 Sep 17 j 07:16	0°♍		
	-11588 Oct 31 j 13:41	0°♎		
	-11588 Dec 16 j 00:35	0°♏		
evening set	-11587 Jan 16 j 20:50	20°♏36'53		
	-11587 Jan 31 j 11:26	0°♐		
max. Earth dist.	-11587 Mar 05 j 02:09	20°♐52'38	2.66426 AU	
conjunction	-11587 Mar 06 j 10:27	21°♐44'17	-0°46'09	
minimum elong	-11587 Mar 06 j 11:57	21°♐46'41	0°46'46	
	-11587 Mar 19 j 08:14	0°♑		
morning rise	-11587 Apr 22 j 11:38	21°♑57'17		
	-11587 May 04 j 21:48	0°♒		
asc. node	-11587 May 28 j 10:51	15°♒21'24		
	-11587 Jun 19 j 16:10	0°♓		
	-11587 Aug 03 j 12:36	0°♈		
	-11587 Sep 16 j 18:02	0°♉		
	-11587 Oct 31 j 02:51	0°♊		
	-11587 Dec 16 j 17:33	0°♋		
	-11586 Feb 19 j 23:58	0°♌		
retrograde	-11586 Mar 08 j 19:27	1°♌52'21		
	-11586 Mar 25 j 12:02	30°℞♋		
min. Earth dist.	-11586 Apr 05 j 08:29	27°♋12'36	0.40294 AU	
opposition	-11586 Apr 10 j 23:24	25°♋33'15	0°29'22	
greatest brilliancy	-11586 Apr 10 j 21:26	25°♋34'42	-2.8m	
desc. node	-11586 Apr 17 j 10:19	23°♋42'23		
direct	-11586 May 11 j 19:38	20°♋04'37		
	-11586 Jun 23 j 11:49	0°♌		
	-11586 Aug 20 j 09:42	0°♍		
	-11586 Oct 08 j 19:45	0°♎		
	-11586 Nov 25 j 20:12	0°♏		
	-11585 Jan 12 j 14:31	0°♐		
evening set	-11585 Feb 25 j 12:42	27°♐48'02		
	-11585 Feb 28 j 23:27	0°♑		
max. Earth dist.	-11585 Mar 30 j 04:06	18°♑46'30	2.63870 AU	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11585 Apr 14 j 14:35	28°♉50'07	-0°00'22
minimum elong	-11585 Apr 14 j 14:38	28°♉50'11	0°00'58
behind sun begin	-11585 Apr 13 j 18:52	28°♉17'51	
behind sun end	-11585 Apr 15 j 10:23	29°♉22'32	
asc. node	-11585 Apr 15 j 04:29	29°♉12'51	
	-11585 Apr 16 j 09:15	0°♒	
	-11585 May 31 j 07:54	0°♓	
morning rise	-11585 Jun 01 j 00:53	0°♓28'54	
	-11585 Jul 13 j 14:54	0°♈	
	-11585 Aug 24 j 10:13	0°♉	
	-11585 Oct 04 j 04:28	0°♊	
	-11585 Nov 13 j 14:53	0°♋	
	-11585 Dec 24 j 21:23	0°♌	
	-11584 Feb 07 j 11:39	0°♍	
desc. node	-11584 Mar 04 j 11:02	15°♍05'52	
	-11584 Apr 08 j 16:38	0°♎	
retrograde	-11584 May 02 j 02:49	3°♎33'22	
	-11584 May 24 j 13:19	30°℞♍	
min. Earth dist.	-11584 Jun 01 j 15:24	27°♍17'00	0.51785 AU
greatest brilliancy	-11584 Jun 07 j 22:51	24°♍57'12	-2.0m
opposition	-11584 Jun 09 j 06:15	24°♍28'03	-4°52'34
direct	-11584 Jul 13 j 21:57	16°♍58'18	
	-11584 Sep 03 j 07:10	0°♎	
	-11584 Nov 01 j 01:28	0°♏	
	-11584 Dec 22 j 07:11	0°♐	
	-11583 Feb 09 j 01:51	0°♑	
asc. node	-11583 Mar 02 j 02:51	13°♑19'25	
	-11583 Mar 27 j 21:34	0°♒	
evening set	-11583 Apr 05 j 22:14	5°♒56'21	
max. Earth dist.	-11583 Apr 26 j 15:32	19°♒47'21	2.56234 AU
	-11583 May 11 j 15:07	0°♓	
conjunction	-11583 May 25 j 23:05	9°♓55'43	0°48'58
minimum elong	-11583 May 25 j 21:14	9°♓52'28	0°48'40
	-11583 Jun 23 j 06:03	0°♈	
morning rise	-11583 Jul 16 j 04:50	16°♈44'00	
	-11583 Aug 03 j 01:12	0°♉	
	-11583 Sep 11 j 13:51	0°♊	
	-11583 Oct 20 j 13:55	0°♋	
	-11583 Nov 28 j 22:39	0°♌	
	-11582 Jan 08 j 18:32	0°♍	
desc. node	-11582 Jan 20 j 05:58	8°♍06'27	
	-11582 Feb 21 j 17:34	0°♎	
	-11582 Apr 14 j 11:29	0°♏	
retrograde	-11582 Jun 12 j 04:40	17°♏15'02	
min. Earth dist.	-11582 Jul 17 j 17:14	9°♏03'01	0.61904 AU
opposition	-11582 Jul 21 j 23:39	7°♏20'55	-5°15'29
greatest brilliancy	-11582 Jul 21 j 06:04	7°♏38'27	-1.5m
	-11582 Aug 13 j 15:59	30°℞♎	
direct	-11582 Aug 28 j 19:04	28°♎28'19	
	-11582 Sep 13 j 20:58	0°♏	
	-11582 Nov 27 j 16:18	0°♐	
asc. node	-11581 Jan 18 j 06:10	29°♐14'29	
	-11581 Jan 19 j 12:34	0°♑	
	-11581 Mar 08 j 17:01	0°♒	
	-11581 Apr 22 j 18:42	0°♓	
evening set	-11581 May 21 j 23:20	20°♓26'49	
	-11581 Jun 04 j 05:44	0°♈	
max. Earth dist.	-11581 Jun 08 j 06:42	2°♈56'27	2.44797 AU
	-11581 Jul 14 j 14:41	0°♉	
conjunction	-11581 Jul 16 j 06:31	1°♉15'37	1°13'12
minimum elong	-11581 Jul 16 j 06:46	1°♉16'05	1°13'30
	-11581 Aug 22 j 14:24	0°♊	
morning rise	-11581 Sep 14 j 06:08	17°♊40'29	
	-11581 Sep 30 j 00:52	0°♋	
	-11581 Nov 07 j 19:13	0°♌	

desc. node	-11581 Dec 07 j 23:36	22°♌45'56	
	-11581 Dec 17 j 18:49	0°♍	
	-11580 Jan 28 j 21:34	0°♎	
	-11580 Mar 14 j 07:37	0°♏	
	-11580 May 05 j 03:27	0°♐	
retrograde	-11580 Jul 16 j 23:26	23°♐17'23	
opposition	-11580 Aug 25 j 19:03	13°♐32'49	-3°39'51
min. Earth dist.	-11580 Aug 25 j 07:32	13°♐44'25	0.66365 AU
greatest brilliancy	-11580 Aug 25 j 18:15	13°♐33'37	-1.4m
direct	-11580 Oct 04 j 16:30	3°♐53'12	
asc. node	-11580 Dec 05 j 11:43	21°♐00'24	
	-11580 Dec 23 j 21:46	0°♑	
	-11579 Feb 14 j 13:02	0°♒	
	-11579 Apr 01 j 22:55	0°♓	
	-11579 May 14 j 18:41	0°♈	
	-11579 Jun 24 j 03:19	0°♉	
evening set	-11579 Jul 17 j 06:42	17°♉46'37	
	-11579 Aug 01 j 23:35	0°♊	
	-11579 Sep 09 j 06:14	0°♋	
conjunction	-11579 Sep 17 j 09:43	6°♋22'18	0°27'59
minimum elong	-11579 Sep 17 j 12:11	6°♋27'08	0°28'36
	-11579 Oct 17 j 21:17	0°♌	
max. Earth dist.	-11579 Oct 20 j 00:44	1°♌38'39	2.39471 AU
desc. node	-11579 Oct 24 j 18:07	5°♌15'24	
morning rise	-11579 Nov 20 j 21:15	25°♌41'39	
	-11579 Nov 26 j 16:49	0°♍	
	-11578 Jan 07 j 09:34	0°♎	
	-11578 Feb 20 j 12:31	0°♏	
	-11578 Apr 08 j 17:36	0°♐	
	-11578 May 31 j 04:20	0°♑	
retrograde	-11578 Aug 21 j 20:35	27°♑36'47	
opposition	-11578 Sep 29 j 14:44	18°♑29'48	-0°59'34
greatest brilliancy	-11578 Sep 29 j 17:56	18°♑26'38	-1.5m
min. Earth dist.	-11578 Oct 02 j 20:33	17°♑12'44	0.64640 AU
asc. node	-11578 Oct 23 j 16:37	10°♑22'30	
direct	-11578 Nov 09 j 10:24	8°♑31'06	
	-11577 Jan 17 j 19:05	0°♒	
	-11577 Mar 10 j 11:22	0°♓	
	-11577 Apr 23 j 20:31	0°♈	
	-11577 Jun 03 j 19:05	0°♉	
	-11577 Jul 12 j 21:52	0°♊	
	-11577 Aug 20 j 09:14	0°♋	
desc. node	-11577 Sep 11 j 15:03	17°♋15'56	
evening set	-11577 Sep 20 j 19:11	24°♋19'35	
	-11577 Sep 28 j 05:02	0°♌	
	-11577 Nov 07 j 05:14	0°♍	
conjunction	-11577 Nov 19 j 21:20	9°♍14'39	-0°47'13
minimum elong	-11577 Nov 19 j 18:37	9°♍09'44	0°46'56
	-11577 Dec 19 j 00:24	0°♎	
max. Earth dist.	-11577 Dec 28 j 09:26	6°♎32'06	2.51331 AU
morning rise	-11576 Jan 16 j 04:31	19°♎25'22	
	-11576 Jan 31 j 21:47	0°♏	
	-11576 Mar 17 j 22:52	0°♐	
	-11576 May 05 j 06:13	0°♑	
	-11576 Jun 26 j 02:26	0°♒	
	-11576 Aug 31 j 13:38	0°♓	
asc. node	-11576 Sep 09 j 17:17	2°♓25'48	
retrograde	-11576 Oct 01 j 02:32	5°♓00'51	
	-11576 Oct 29 j 05:35	30°℞♒	
opposition	-11576 Nov 06 j 15:23	26°♒58'55	2°35'55
greatest brilliancy	-11576 Nov 07 j 04:43	26°♒46'23	-1.8m
min. Earth dist.	-11576 Nov 13 j 06:53	24°♒29'01	0.57014 AU
direct	-11576 Dec 16 j 16:47	17°♒23'48	
	-11575 Feb 03 j 06:59	0°♓	
	-11575 Mar 28 j 10:09	0°♈	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11575 May 10 j 20:47	0°♉	
	-11575 Jun 20 j 04:12	0°♊	
desc. node	-11575 Jul 29 j 16:47	0°♋10'52	
	-11575 Jul 29 j 11:06	0°♋	
	-11575 Sep 06 j 23:26	0°♌	
	-11575 Oct 17 j 14:21	0°♍	
evening set	-11575 Nov 16 j 07:45	21°♍13'14	
	-11575 Nov 28 j 21:29	0°♎	
conjunction	-11574 Jan 08 j 18:35	27°♎48'43	-1°14'53
minimum elong	-11574 Jan 08 j 18:21	27°♎48'20	1°15'10
	-11574 Jan 12 j 01:21	0°♏	
max. Earth dist.	-11574 Jan 29 j 15:55	11°♏38'16	2.61127 AU
	-11574 Feb 26 j 21:36	0°♐	
morning rise	-11574 Feb 28 j 14:55	1°♐06'33	
	-11574 Apr 14 j 23:49	0°♑	
	-11574 Jun 02 j 00:59	0°♒	
	-11574 Jul 21 j 12:50	0°♓	
asc. node	-11574 Jul 28 j 13:29	4°♓07'41	
	-11574 Sep 13 j 14:14	0°♈	
retrograde	-11574 Nov 25 j 04:58	22°♈48'55	
opposition	-11574 Dec 28 j 05:10	16°♈32'56	6°27'08
greatest brilliancy	-11574 Dec 29 j 20:39	16°♈01'02	-2.4m
min. Earth dist.	-11573 Jan 05 j 00:22	14°♈02'49	0.45286 AU
direct	-11573 Feb 02 j 06:14	8°♈58'57	
	-11573 Apr 06 j 06:18	0°♉	
	-11573 May 23 j 15:21	0°♊	
desc. node	-11573 Jun 16 j 21:58	16°♊58'41	
	-11573 Jul 05 j 02:36	0°♋	
	-11573 Aug 15 j 16:55	0°♌	
	-11573 Sep 26 j 20:48	0°♍	
	-11573 Nov 09 j 07:22	0°♎	
	-11573 Dec 24 j 05:35	0°♏	
evening set	-11572 Jan 01 j 17:01	5°♏33'30	
	-11572 Feb 08 j 09:45	0°♐	
conjunction	-11572 Feb 20 j 02:01	7°♐30'18	-0°59'34
minimum elong	-11572 Feb 20 j 03:34	7°♐32'46	1°00'09
max. Earth dist.	-11572 Feb 24 j 16:59	10°♐28'11	2.65977 AU
	-11572 Mar 26 j 05:25	0°♑	
morning rise	-11572 Apr 07 j 16:11	7°♑57'51	
	-11572 May 12 j 00:28	0°♒	
asc. node	-11572 Jun 14 j 06:25	21°♒28'59	
	-11572 Jun 27 j 09:06	0°♓	
	-11572 Aug 12 j 08:41	0°♈	
	-11572 Sep 27 j 15:38	0°♉	
	-11572 Nov 15 j 06:48	0°♊	
	-11571 Jan 20 j 22:44	0°♋	
retrograde	-11571 Feb 08 j 11:52	2°♋08'49	
	-11571 Feb 27 j 03:14	30°℞♊	
min. Earth dist.	-11571 Mar 10 j 09:18	27°♊10'30	0.38431 AU
opposition	-11571 Mar 11 j 15:59	26°♊49'50	4°03'37
greatest brilliancy	-11571 Mar 11 j 16:13	26°♊49'41	-2.9m
direct	-11571 Apr 11 j 00:20	21°♊43'25	
desc. node	-11571 May 04 j 02:39	24°♊58'41	
	-11571 May 19 j 02:50	0°♋	
	-11571 Jul 15 j 14:25	0°♌	
	-11571 Sep 01 j 11:21	0°♍	
	-11571 Oct 17 j 23:23	0°♎	
	-11571 Dec 03 j 15:59	0°♏	
	-11570 Jan 19 j 18:45	0°♐	
evening set	-11570 Feb 10 j 06:33	13°♐39'40	
	-11570 Mar 07 j 21:16	0°♑	
max. Earth dist.	-11570 Mar 20 j 05:46	7°♑55'26	2.65522 AU
conjunction	-11570 Mar 30 j 06:05	14°♑22'27	-0°19'31
minimum elong	-11570 Mar 30 j 06:52	14°♑23'43	0°20'09

	-11570 Apr 23 j 07:22	0°♒	
asc. node	-11570 May 01 j 22:56	5°♒40'12	
morning rise	-11570 May 16 j 04:27	15°♒04'11	
	-11570 Jun 07 j 12:06	0°♓	
	-11570 Jul 21 j 06:25	0°♈	
	-11570 Sep 01 j 18:14	0°♉	
	-11570 Oct 13 j 09:57	0°♊	
	-11570 Nov 24 j 01:17	0°♋	
	-11569 Jan 06 j 09:36	0°♌	
	-11569 Feb 26 j 17:07	0°♍	
desc. node	-11569 Mar 22 j 04:19	9°♍05'18	
retrograde	-11569 Apr 13 j 23:35	12°♍32'03	
min. Earth dist.	-11569 May 12 j 14:10	7°♍04'55	0.46903 AU
opposition	-11569 May 20 j 16:30	4°♍17'00	-3°37'50
greatest brilliancy	-11569 May 19 j 13:44	4°♍40'14	-2.3m
	-11569 Jun 03 j 13:19	30°℞♌	
direct	-11569 Jun 22 j 18:13	27°♌32'55	
	-11569 Jul 12 j 22:59	0°♍	
	-11569 Sep 20 j 15:48	0°♎	
	-11569 Nov 11 j 18:31	0°♏	
	-11569 Dec 31 j 04:44	0°♐	
	-11568 Feb 17 j 06:40	0°♑	
asc. node	-11568 Mar 18 j 18:53	19°♑30'58	
evening set	-11568 Mar 20 j 20:27	20°♑51'13	
	-11568 Apr 03 j 21:06	0°♒	
max. Earth dist.	-11568 Apr 14 j 22:13	7°♒16'49	2.59819 AU
conjunction	-11568 May 08 j 18:32	23°♒15'41	0°30'41
minimum elong	-11568 May 08 j 17:17	23°♒13'33	0°30'15
	-11568 May 18 j 15:53	0°♓	
morning rise	-11568 Jun 26 j 23:07	27°♓28'17	
	-11568 Jun 30 j 12:04	0°♈	
	-11568 Aug 10 j 15:08	0°♉	
	-11568 Sep 19 j 12:52	0°♊	
	-11568 Oct 28 j 22:30	0°♋	
	-11568 Dec 07 j 18:20	0°♌	
	-11567 Jan 18 j 08:07	0°♍	
desc. node	-11567 Feb 06 j 03:09	12°♍47'26	
	-11567 Mar 05 j 06:39	0°♎	
	-11567 May 11 j 12:50	0°♏	
retrograde	-11567 May 28 j 06:15	1°♏47'51	
	-11567 Jun 13 j 03:32	30°℞♎	
min. Earth dist.	-11567 Jun 30 j 22:29	24°♎16'49	0.58520 AU
opposition	-11567 Jul 06 j 15:37	22°♎02'25	-5°26'50
greatest brilliancy	-11567 Jul 05 j 14:41	22°♎26'55	-1.7m
direct	-11567 Aug 12 j 08:22	13°♎36'55	
	-11567 Oct 11 j 03:40	0°♏	
	-11567 Dec 07 j 20:55	0°♐	
	-11566 Jan 27 j 13:20	0°♑	
asc. node	-11566 Feb 03 j 19:58	4°♑29'00	
	-11566 Mar 16 j 01:26	0°♒	
	-11566 Apr 29 j 22:40	0°♓	
evening set	-11566 May 03 j 01:27	2°♓08'48	
max. Earth dist.	-11566 May 19 j 13:07	13°♓38'38	2.49541 AU
	-11566 Jun 11 j 10:24	0°♈	
conjunction	-11566 Jun 24 j 19:37	9°♈46'10	1°09'41
minimum elong	-11566 Jun 24 j 18:12	9°♈43'35	1°09'45
	-11566 Jul 21 j 22:38	0°♉	
morning rise	-11566 Aug 19 j 20:20	22°♉04'25	
	-11566 Aug 30 j 02:32	0°♊	
	-11566 Oct 07 j 17:09	0°♋	
	-11566 Nov 15 j 15:28	0°♌	
desc. node	-11566 Dec 24 j 20:56	29°♌18'12	
	-11566 Dec 25 j 19:51	0°♍	
	-11565 Feb 06 j 08:24	0°♎	
	-11565 Mar 24 j 23:29	0°♏	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11565 May 21 j 22:02	0°♐	
retrograde	-11565 Jul 04 j 08:26	9°♐55'08	
min. Earth dist.	-11565 Aug 11 j 07:32	0°♐50'23	0.65330 AU
opposition	-11565 Aug 13 j 06:48	0°♐02'43	-4°26'00
greatest brilliancy	-11565 Aug 13 j 00:21	0°♐09'14	-1.4m
	-11565 Aug 13 j 09:30	30°℞♏	
direct	-11565 Sep 21 j 11:28	20°♏38'16	
	-11565 Nov 03 j 21:01	0°♐	
asc. node	-11565 Dec 23 j 01:07	23°♐03'39	
	-11564 Jan 04 j 16:26	0°♑	
	-11564 Feb 23 j 21:28	0°♒	
	-11564 Apr 09 j 14:58	0°♓	
	-11564 May 22 j 05:49	0°♈	
evening set	-11564 Jun 23 j 10:25	23°♈50'15	
	-11564 Jul 01 j 13:43	0°♉	
max. Earth dist.	-11564 Aug 05 j 13:05	26°♉57'53	2.38672 AU
	-11564 Aug 09 j 10:27	0°♊	
conjunction	-11564 Aug 22 j 06:50	10°♊03'00	0°54'51
minimum elong	-11564 Aug 22 j 10:05	10°♊09'23	0°55'25
	-11564 Sep 16 j 17:38	0°♋	
morning rise	-11564 Oct 25 j 18:30	0°♌18'18	
	-11564 Oct 25 j 08:58	0°♌	
desc. node	-11564 Nov 10 j 13:20	12°♌20'02	
	-11564 Dec 04 j 04:43	0°♍	
	-11563 Jan 14 j 23:05	0°♎	
	-11563 Feb 28 j 09:02	0°♏	
	-11563 Apr 17 j 14:31	0°♐	
	-11563 Jun 13 j 14:34	0°♑	
retrograde	-11563 Aug 07 j 14:55	14°♑20'59	
opposition	-11563 Sep 15 j 21:44	4°♑56'31	-2°08'23
greatest brilliancy	-11563 Sep 16 j 01:34	4°♑52'42	-1.4m
min. Earth dist.	-11563 Sep 17 j 16:49	4°♑13'25	0.66039 AU
	-11563 Sep 28 j 20:09	30°℞♐	
direct	-11563 Oct 26 j 12:12	25°♐01'43	
asc. node	-11563 Nov 09 j 06:43	26°♐09'44	
	-11563 Nov 25 j 17:29	0°♑	
	-11562 Jan 29 j 20:41	0°♒	
	-11562 Mar 19 j 12:26	0°♓	
	-11562 May 02 j 01:44	0°♈	
	-11562 Jun 11 j 16:53	0°♉	
	-11562 Jul 20 j 15:48	0°♊	
evening set	-11562 Aug 26 j 08:39	28°♊42'59	
	-11562 Aug 28 j 00:03	0°♋	
desc. node	-11562 Sep 28 j 09:08	24°♋22'50	
	-11562 Oct 05 j 16:43	0°♌	
conjunction	-11562 Oct 27 j 13:24	16°♌35'33	-0°21'39
minimum elong	-11562 Oct 27 j 11:40	16°♌32'18	0°21'09
	-11562 Nov 14 j 13:43	0°♍	
max. Earth dist.	-11562 Dec 10 j 09:13	18°♍44'52	2.46523 AU
	-11562 Dec 26 j 06:22	0°♎	
morning rise	-11562 Dec 27 j 02:28	0°♎35'15	
	-11561 Feb 08 j 03:48	0°♏	
	-11561 Mar 26 j 11:21	0°♐	
	-11561 May 14 j 18:18	0°♑	
	-11561 Jul 09 j 07:54	0°♒	
retrograde	-11561 Sep 15 j 00:39	19°♒55'14	
asc. node	-11561 Sep 27 j 09:33	18°♒55'48	
opposition	-11561 Oct 22 j 13:55	11°♒23'53	1°06'04
greatest brilliancy	-11561 Oct 22 j 18:28	11°♒19'29	-1.6m
min. Earth dist.	-11561 Oct 27 j 23:17	9°♒18'54	0.60646 AU
direct	-11561 Dec 02 j 04:30	1°♒32'06	
	-11560 Feb 20 j 14:36	0°♓	
	-11560 Apr 08 j 02:08	0°♈	
	-11560 May 20 j 02:52	0°♉	
	-11560 Jun 28 j 18:54	0°♊	
	-11560 Aug 06 j 15:28	0°♋	
desc. node	-11560 Aug 15 j 09:20	6°♋44'41	
	-11560 Sep 14 j 19:12	0°♌	
	-11560 Oct 25 j 02:23	0°♍	
evening set	-11560 Oct 26 j 11:04	0°♍59'37	
	-11560 Dec 06 j 03:00	0°♎	
conjunction	-11560 Dec 21 j 08:04	10°♎31'44	-1°10'22
minimum elong	-11560 Dec 21 j 06:36	10°♎29'12	1°10'25
max. Earth dist.	-11559 Jan 18 j 02:22	29°♎19'32	2.57823 AU
	-11559 Jan 19 j 02:36	0°♏	
morning rise	-11559 Feb 12 j 07:11	15°♏58'21	
	-11559 Mar 05 j 22:37	0°♐	
	-11559 Apr 22 j 08:12	0°♑	
	-11559 Jun 10 j 08:40	0°♒	
	-11559 Aug 01 j 15:26	0°♓	
asc. node	-11559 Aug 14 j 07:47	6°♓40'44	
	-11559 Oct 11 j 19:53	0°♈	
retrograde	-11559 Nov 01 j 08:18	2°♈24'11	
	-11559 Nov 20 j 17:10	30°℞♓	
opposition	-11559 Dec 05 j 20:12	25°♓21'36	5°05'14
greatest brilliancy	-11559 Dec 07 j 03:37	24°♓54'05	-2.1m
min. Earth dist.	-11559 Dec 13 j 18:41	22°♓35'30	0.50050 AU
direct	-11558 Jan 12 j 23:18	16°♓44'05	
	-11558 Mar 02 j 16:37	0°♈	
	-11558 Apr 22 j 18:37	0°♉	
	-11558 Jun 04 j 11:58	0°♊	
desc. node	-11558 Jul 03 j 12:36	21°♊23'06	
	-11558 Jul 15 j 02:37	0°♋	
	-11558 Aug 24 j 13:51	0°♌	
	-11558 Oct 04 j 22:36	0°♍	
	-11558 Nov 16 j 19:21	0°♎	
evening set	-11558 Dec 15 j 16:43	19°♎34'59	
	-11558 Dec 31 j 08:15	0°♏	
conjunction	-11557 Feb 04 j 07:11	22°♏52'42	-1°09'19
minimum elong	-11557 Feb 04 j 08:21	22°♏54'36	1°09'48
max. Earth dist.	-11557 Feb 15 j 02:43	29°♏52'07	2.64706 AU
	-11557 Feb 15 j 07:36	0°♐	
morning rise	-11557 Mar 24 j 19:36	24°♐02'26	
	-11557 Apr 03 j 03:52	0°♑	
	-11557 May 20 j 07:19	0°♒	
asc. node	-11557 Jul 02 j 01:21	27°♒10'14	
	-11557 Jul 06 j 12:28	0°♓	
	-11557 Aug 23 j 06:56	0°♈	
	-11557 Oct 12 j 15:39	0°♉	
	-11557 Dec 19 j 19:01	0°♊	
retrograde	-11556 Jan 09 j 08:33	2°♊30'36	
	-11556 Jan 29 j 18:25	30°℞♉	
opposition	-11556 Feb 09 j 05:02	27°♉18'00	6°31'59
greatest brilliancy	-11556 Feb 10 j 05:22	27°♉01'08	-2.8m
min. Earth dist.	-11556 Feb 13 j 00:55	26°♉14'29	0.39410 AU
direct	-11556 Mar 12 j 05:07	21°♉39'07	
	-11556 Apr 18 j 15:13	0°♊	
desc. node	-11556 May 20 j 18:42	15°♊58'39	
	-11556 Jun 13 j 03:28	0°♋	
	-11556 Jul 29 j 00:21	0°♌	
	-11556 Sep 11 j 11:57	0°♍	
	-11556 Oct 26 j 08:37	0°♎	
	-11556 Dec 11 j 03:51	0°♏	
evening set	-11555 Jan 25 j 21:52	29°♏25'37	
	-11555 Jan 26 j 19:23	0°♐	
max. Earth dist.	-11555 Mar 10 j 15:36	27°♐23'00	2.66338 AU
	-11555 Mar 14 j 17:41	0°♑	
conjunction	-11555 Mar 15 j 04:00	0°♑16'31	-0°37'01
minimum elong	-11555 Mar 15 j 05:19	0°♑18'38	0°37'39

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11555 Apr 30 j 05:47	0°♒	
morning rise	-11555 May 01 j 01:11	0°♒31'35	
asc. node	-11555 May 18 j 16:56	12°♒04'28	
	-11555 Jun 14 j 18:46	0°♓	
	-11555 Jul 29 j 04:33	0°♈	
	-11555 Sep 10 j 16:15	0°♉	
	-11555 Oct 23 j 18:54	0°♊	
	-11555 Dec 06 j 18:57	0°♋	
	-11554 Jan 25 j 00:44	0°♌	
retrograde	-11554 Mar 22 j 20:14	17°♌49'28	
desc. node	-11554 Apr 07 j 22:51	16°♌02'35	
min. Earth dist.	-11554 Apr 19 j 08:13	13°♌00'10	0.42301 AU
opposition	-11554 Apr 26 j 10:20	10°♌46'36	-1°19'15
greatest brilliancy	-11554 Apr 26 j 00:39	10°♌54'12	-2.6m
direct	-11554 May 27 j 21:22	4°♌52'56	
	-11554 Aug 10 j 23:02	0°♍	
	-11554 Oct 02 j 09:17	0°♎	
	-11554 Nov 20 j 11:21	0°♏	
	-11553 Jan 07 j 17:21	0°♐	
	-11553 Feb 24 j 07:32	0°♑	
evening set	-11553 Mar 06 j 08:13	6°♑23'58	
max. Earth dist.	-11553 Apr 05 j 03:45	25°♑39'28	2.62647 AU
asc. node	-11553 Apr 05 j 10:51	25°♑51'03	
	-11553 Apr 11 j 19:02	0°♒	
conjunction	-11553 Apr 23 j 14:32	7°♒46'58	0°11'06
minimum elong	-11553 Apr 23 j 14:05	7°♒46'14	0°10'33
behind sun begin	-11553 Apr 22 j 22:48	7°♒20'57	
behind sun end	-11553 Apr 24 j 05:22	8°♒11'30	
	-11553 May 26 j 16:30	0°♓	
morning rise	-11553 Jun 10 j 11:36	10°♓09'24	
	-11553 Jul 08 j 19:34	0°♈	
	-11553 Aug 19 j 08:36	0°♉	
	-11553 Sep 28 j 18:28	0°♊	
	-11553 Nov 07 j 17:56	0°♋	
	-11553 Dec 18 j 08:04	0°♌	
	-11552 Jan 30 j 08:27	0°♍	
desc. node	-11552 Feb 23 j 21:29	15°♍30'37	
	-11552 Mar 21 j 08:42	0°♎	
retrograde	-11552 May 12 j 02:43	14°♎41'15	
min. Earth dist.	-11552 Jun 12 j 18:56	7°♎56'39	0.54363 AU
opposition	-11552 Jun 19 j 19:09	5°♎16'56	-5°14'39
greatest brilliancy	-11552 Jun 18 j 12:50	5°♎45'51	-1.9m
	-11552 Jul 05 j 14:42	30°℞♍	
direct	-11552 Jul 25 j 05:23	27°♍25'06	
	-11552 Aug 15 j 03:35	0°♎	
	-11552 Oct 24 j 22:43	0°♏	
	-11552 Dec 16 j 19:27	0°♐	
	-11551 Feb 04 j 03:51	0°♑	
asc. node	-11551 Feb 20 j 10:30	10°♑13'07	
	-11551 Mar 23 j 05:09	0°♒	
evening set	-11551 Apr 15 j 12:19	15°♒24'36	
max. Earth dist.	-11551 May 04 j 08:47	28°♒10'50	2.54014 AU
	-11551 May 07 j 00:27	0°♓	
conjunction	-11551 Jun 05 j 08:22	20°♓29'53	0°58'02
minimum elong	-11551 Jun 05 j 06:25	20°♓26'27	0°57'52
	-11551 Jun 18 j 14:42	0°♈	
morning rise	-11551 Jul 28 j 00:43	29°♈01'56	
	-11551 Jul 29 j 07:40	0°♉	
	-11551 Sep 06 j 17:07	0°♊	
	-11551 Oct 15 j 13:08	0°♋	
	-11551 Nov 23 j 17:00	0°♌	
	-11550 Jan 03 j 05:06	0°♍	
desc. node	-11550 Jan 10 j 16:37	5°♍21'56	
	-11550 Feb 15 j 10:34	0°♎	
	-11550 Apr 05 j 09:58	0°♏	

retrograde	-11550 Jun 20 j 11:13	26°♏01'43	
min. Earth dist.	-11550 Jul 26 j 21:34	17°♏29'23	0.63380 AU
opposition	-11550 Jul 30 j 08:25	16°♏06'15	-5°01'15
greatest brilliancy	-11550 Jul 29 j 19:00	16°♏19'43	-1.5m
direct	-11550 Sep 06 j 16:23	7°♏00'59	
	-11550 Nov 19 j 23:18	0°♐	
asc. node	-11549 Jan 08 j 14:31	26°♐53'35	
	-11549 Jan 13 j 22:07	0°♑	
	-11549 Mar 03 j 17:25	0°♒	
	-11549 Apr 18 j 00:37	0°♓	
	-11549 May 30 j 13:18	0°♈	
evening set	-11549 Jun 02 j 14:03	2°♈12'15	
max. Earth dist.	-11549 Jun 23 j 06:13	17°♈27'05	2.42255 AU
	-11549 Jul 09 j 22:17	0°♉	
conjunction	-11549 Jul 29 j 11:14	14°♉57'08	1°10'14
minimum elong	-11549 Jul 29 j 12:46	15°♉00'06	1°10'39
	-11549 Aug 17 j 21:11	0°♊	
	-11549 Sep 25 j 06:19	0°♋	
morning rise	-11549 Sep 29 j 11:14	3°♋17'03	
	-11549 Nov 02 j 23:05	0°♌	
desc. node	-11549 Nov 28 j 09:54	19°♌17'11	
	-11549 Dec 12 j 20:17	0°♍	
	-11548 Jan 23 j 18:07	0°♎	
	-11548 Mar 08 j 15:52	0°♏	
	-11548 Apr 27 j 15:34	0°♐	
	-11548 Jul 10 j 08:33	0°♑	
retrograde	-11548 Jul 24 j 20:18	1°♑15'35	
	-11548 Aug 07 j 13:56	30°℞♐	
opposition	-11548 Sep 02 j 12:02	21°♐37'04	-3°08'47
greatest brilliancy	-11548 Sep 02 j 13:32	21°♐35'34	-1.4m
min. Earth dist.	-11548 Sep 02 j 19:54	21°♐29'08	0.66511 AU
direct	-11548 Oct 12 j 16:31	11°♐50'49	
asc. node	-11548 Nov 25 j 20:51	21°♐33'16	
	-11548 Dec 15 j 13:21	0°♑	
	-11547 Feb 08 j 18:20	0°♒	
	-11547 Mar 27 j 20:12	0°♓	
	-11547 May 09 j 21:38	0°♈	
	-11547 Jun 19 j 08:28	0°♉	
	-11547 Jul 28 j 05:31	0°♊	
evening set	-11547 Jul 31 j 14:10	2°♊37'34	
	-11547 Sep 04 j 12:19	0°♋	
conjunction	-11547 Oct 02 j 07:13	21°♋38'51	0°09'48
minimum elong	-11547 Oct 02 j 08:10	21°♋40'40	0°10'24
behind sun begin	-11547 Oct 01 j 11:07	20°♋59'59	
behind sun end	-11547 Oct 03 j 05:13	22°♋21'21	
	-11547 Oct 13 j 03:24	0°♌	
desc. node	-11547 Oct 15 j 03:10	1°♌31'33	
max. Earth dist.	-11547 Nov 13 j 22:46	24°♌04'05	2.41721 AU
	-11547 Nov 21 j 22:44	0°♍	
morning rise	-11547 Dec 04 j 17:39	9°♍22'23	
	-11546 Jan 02 j 14:20	0°♎	
	-11546 Feb 15 j 13:49	0°♏	
	-11546 Apr 03 j 08:06	0°♐	
	-11546 May 24 j 05:35	0°♑	
	-11546 Jul 28 j 07:18	0°♒	
retrograde	-11546 Aug 30 j 09:06	5°♒48'55	
	-11546 Sep 29 j 13:27	30°℞♑	
opposition	-11546 Oct 07 j 18:02	26°♑53'17	-0°15'56
greatest brilliancy	-11546 Oct 07 j 19:12	26°♑52'09	-1.5m
min. Earth dist.	-11546 Oct 11 j 18:17	25°♑18'34	0.63481 AU
asc. node	-11546 Oct 14 j 01:04	24°♑25'19	
direct	-11546 Nov 17 j 13:39	16°♑54'50	
	-11545 Jan 07 j 20:52	0°♒	
	-11545 Mar 04 j 04:52	0°♓	
	-11545 Apr 18 j 10:07	0°♈	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11545 May 29 j 16:28	0°♉	
	-11545 Jul 07 j 23:08	0°♊	
	-11545 Aug 15 j 12:46	0°♋	
desc. node	-11545 Sep 02 j 02:16	13°♋37'04	
	-11545 Sep 23 j 10:17	0°♌	
evening set	-11545 Oct 04 j 15:06	8°♌29'57	
	-11545 Nov 02 j 11:48	0°♍	
conjunction	-11545 Dec 02 j 06:18	21°♍29'51	-0°58'06
minimum elong	-11545 Dec 02 j 03:47	21°♍25'23	0°57'57
	-11545 Dec 14 j 07:38	0°♎	
max. Earth dist.	-11544 Jan 06 j 01:23	15°♎43'33	2.53820 AU
morning rise	-11544 Jan 26 j 21:07	29°♎47'20	
	-11544 Jan 27 j 04:42	0°♏	
	-11544 Mar 13 j 02:33	0°♐	
	-11544 Apr 29 j 23:40	0°♑	
	-11544 Jun 19 j 11:58	0°♒	
	-11544 Aug 16 j 12:01	0°♓	
asc. node	-11544 Aug 31 j 00:46	5°♓54'22	
retrograde	-11544 Oct 11 j 17:45	14°♓41'03	
opposition	-11544 Nov 16 j 14:27	6°♓58'09	3°30'00
greatest brilliancy	-11544 Nov 17 j 10:01	6°♓40'06	-1.9m
min. Earth dist.	-11544 Nov 23 j 19:24	4°♓18'51	0.54701 AU
	-11544 Dec 07 j 13:26	30°♑℞♒	
direct	-11544 Dec 26 j 03:02	27°♒38'21	
	-11543 Jan 14 j 12:05	0°♓	
	-11543 Mar 20 j 14:43	0°♈	
	-11543 May 04 j 14:18	0°♉	
	-11543 Jun 14 j 12:38	0°♊	
desc. node	-11543 Jul 20 j 05:51	27°♊01'17	
	-11543 Jul 24 j 03:59	0°♋	
	-11543 Sep 01 j 22:23	0°♌	
	-11543 Oct 12 j 17:49	0°♍	
	-11543 Nov 24 j 04:04	0°♎	
evening set	-11543 Nov 27 j 10:12	2°♎14'58	
	-11542 Jan 07 j 09:51	0°♏	
conjunction	-11542 Jan 18 j 18:02	7°♏30'38	-1°14'25
minimum elong	-11542 Jan 18 j 18:25	7°♏31'16	1°14'47
max. Earth dist.	-11542 Feb 04 j 22:55	18°♏47'04	2.62615 AU
	-11542 Feb 22 j 06:04	0°♐	
morning rise	-11542 Mar 09 j 15:30	9°♐53'46	
	-11542 Apr 10 j 05:07	0°♑	
	-11542 May 27 j 20:49	0°♒	
	-11542 Jul 15 j 08:00	0°♓	
asc. node	-11542 Jul 18 j 19:39	2°♓07'17	
	-11542 Sep 04 j 04:43	0°♈	
	-11542 Nov 06 j 10:01	0°♉	
retrograde	-11542 Dec 10 j 12:41	6°♉17'37	
opposition	-11541 Jan 11 j 14:15	0°♉28'42	6°54'19
greatest brilliancy	-11541 Jan 13 j 05:43	29°♈58'39	-2.5m
	-11541 Jan 13 j 03:58	30°♓℞♈	
min. Earth dist.	-11541 Jan 18 j 16:10	28°♈20'08	0.42815 AU
direct	-11541 Feb 15 j 05:39	23°♈37'28	
	-11541 Mar 19 j 06:31	0°♉	
	-11541 May 14 j 15:33	0°♊	
desc. node	-11541 Jun 07 j 10:26	15°♊43'21	
	-11541 Jun 28 j 03:34	0°♋	
	-11541 Aug 09 j 17:34	0°♌	
	-11541 Sep 21 j 12:02	0°♍	
	-11541 Nov 04 j 07:45	0°♎	
	-11541 Dec 19 j 11:42	0°♏	
evening set	-11540 Jan 11 j 01:53	14°♏42'42	
	-11540 Feb 03 j 18:42	0°♐	
conjunction	-11540 Feb 28 j 23:06	16°♐08'48	-0°52'10
minimum elong	-11540 Feb 29 j 00:40	16°♐11'18	0°52'47
max. Earth dist.	-11540 Mar 01 j 07:47	17°♐01'05	2.66325 AU
	-11540 Mar 21 j 14:35	0°♑	
morning rise	-11540 Apr 16 j 04:46	16°♑24'43	
	-11540 May 07 j 06:43	0°♒	
asc. node	-11540 Jun 04 j 11:47	18°♒19'43	
	-11540 Jun 22 j 07:20	0°♓	
	-11540 Aug 06 j 15:04	0°♈	
	-11540 Sep 20 j 15:29	0°♉	
	-11540 Nov 05 j 10:07	0°♊	
	-11540 Dec 25 j 17:29	0°♋	
retrograde	-11539 Feb 25 j 00:34	19°♋30'21	
min. Earth dist.	-11539 Mar 25 j 05:12	14°♋49'01	0.39117 AU
opposition	-11539 Mar 29 j 02:42	13°♋43'28	2°03'01
greatest brilliancy	-11539 Mar 28 j 22:07	13°♋46'41	-2.9m
desc. node	-11539 Apr 24 j 14:46	8°♋36'17	
direct	-11539 Apr 28 j 14:00	8°♋30'11	
	-11539 Jul 04 j 10:58	0°♌	
	-11539 Aug 25 j 07:19	0°♍	
	-11539 Oct 12 j 04:56	0°♎	
	-11539 Nov 28 j 13:33	0°♏	
	-11538 Jan 15 j 00:16	0°♐	
evening set	-11538 Feb 19 j 01:17	22°♐12'57	
	-11538 Mar 03 j 06:13	0°♑	
max. Earth dist.	-11538 Mar 25 j 23:06	14°♑34'37	2.64708 AU
conjunction	-11538 Apr 08 j 01:09	23°♑03'16	-0°08'35
minimum elong	-11538 Apr 08 j 01:31	23°♑03'52	0°09'11
behind sun begin	-11538 Apr 07 j 09:08	22°♑37'15	
behind sun end	-11538 Apr 08 j 17:54	23°♑30'30	
	-11538 Apr 18 j 16:39	0°♒	
asc. node	-11538 Apr 22 j 04:43	2°♒17'48	
morning rise	-11538 May 25 j 04:28	24°♒12'19	
	-11538 Jun 02 j 18:35	0°♓	
	-11538 Jul 16 j 07:13	0°♈	
	-11538 Aug 27 j 10:00	0°♉	
	-11538 Oct 07 j 13:23	0°♊	
	-11538 Nov 17 j 10:39	0°♋	
	-11538 Dec 29 j 09:45	0°♌	
	-11537 Feb 13 j 17:50	0°♍	
desc. node	-11537 Mar 12 j 16:36	14°♍07'23	
retrograde	-11537 Apr 25 j 05:23	25°♍15'31	
min. Earth dist.	-11537 May 24 j 19:47	19°♍21'26	0.49608 AU
greatest brilliancy	-11537 May 31 j 11:30	16°♍57'52	-2.2m
opposition	-11537 Jun 01 j 18:11	16°♍30'06	-4°27'17
direct	-11537 Jul 05 j 17:45	9°♍19'51	
	-11537 Sep 11 j 10:29	0°♎	
	-11537 Nov 05 j 15:26	0°♏	
	-11537 Dec 26 j 00:30	0°♐	
	-11536 Feb 12 j 11:50	0°♑	
asc. node	-11536 Mar 09 j 02:17	16°♑16'47	
evening set	-11536 Mar 29 j 23:38	29°♑49'32	
	-11536 Mar 30 j 06:02	0°♒	
max. Earth dist.	-11536 Apr 21 j 14:27	14°♒47'48	2.57921 AU
	-11536 May 14 j 01:04	0°♓	
conjunction	-11536 May 18 j 11:14	3°♓02'20	0°41'28
minimum elong	-11536 May 18 j 09:35	2°♓59'30	0°41'07
	-11536 Jun 25 j 19:15	0°♈	
morning rise	-11536 Jul 07 j 16:35	8°♈35'10	
	-11536 Aug 05 j 18:30	0°♉	
	-11536 Sep 14 j 11:30	0°♊	
	-11536 Oct 23 j 15:26	0°♋	
	-11536 Dec 02 j 04:03	0°♌	
	-11535 Jan 12 j 05:29	0°♍	
desc. node	-11535 Jan 27 j 12:26	10°♍40'18	
	-11535 Feb 25 j 18:24	0°♎	
	-11535 Apr 21 j 13:16	0°♏	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

retrograde	-11535 Jun 05 j 23:23	11°♏13'46		
min. Earth dist.	-11535 Jul 10 j 16:30	3°♏19'13	0.60497 AU	
opposition	-11535 Jul 15 j 14:30	1°♏22'13	-5°22'45	
greatest brilliancy	-11535 Jul 14 j 17:33	1°♏43'01	-1.6m	
	-11535 Jul 19 j 02:12	30°℞♎		
direct	-11535 Aug 21 j 21:55	22°♎41'06		
	-11535 Sep 28 j 09:18	0°♏		
	-11535 Dec 01 j 10:51	0°♐		
	-11534 Jan 22 j 07:36	0°♑		
asc. node	-11534 Jan 25 j 05:14	1°♑45'34		
	-11534 Mar 11 j 05:54	0°♒		
	-11534 Apr 25 j 06:51	0°♓		
evening set	-11534 May 13 j 14:59	12°♓44'17		
max. Earth dist.	-11534 May 29 j 23:25	24°♓21'07	2.46932 AU	
	-11534 Jun 06 j 19:20	0°♈		
conjunction	-11534 Jul 06 j 16:59	22°♈02'43	1°12'54	
minimum elong	-11534 Jul 06 j 16:22	22°♈01'34	1°13'06	
	-11534 Jul 17 j 06:30	0°♉		
	-11534 Aug 25 j 08:27	0°♊		
morning rise	-11534 Sep 02 j 21:51	6°♊39'13		
	-11534 Oct 02 j 20:30	0°♋		
	-11534 Nov 10 j 15:51	0°♌		
desc. node	-11534 Dec 15 j 05:43	25°♌59'58		
	-11534 Dec 20 j 16:18	0°♍		
	-11533 Jan 31 j 21:01	0°♎		
	-11533 Mar 18 j 15:20	0°♏		
	-11533 May 11 j 02:54	0°♐		
retrograde	-11533 Jul 12 j 06:12	18°♐05'25		
min. Earth dist.	-11533 Aug 19 j 23:29	8°♐44'33	0.66026 AU	
opposition	-11533 Aug 21 j 03:05	8°♐16'41	-4°00'23	
greatest brilliancy	-11533 Aug 20 j 23:58	8°♐19'50	-1.4m	
	-11533 Sep 15 j 19:33	30°℞♏		
direct	-11533 Sep 29 j 17:01	28°♏43'25		
	-11533 Oct 14 j 11:12	0°♐		
asc. node	-11533 Dec 13 j 10:17	21°♐57'28		
	-11533 Dec 28 j 23:22	0°♑		
	-11532 Feb 18 j 12:47	0°♒		
	-11532 Apr 04 j 16:44	0°♓		
	-11532 May 17 j 11:40	0°♈		
	-11532 Jun 26 j 20:55	0°♉		
evening set	-11532 Jul 06 j 15:47	7°♉28'09		
	-11532 Aug 04 j 17:57	0°♊		
conjunction	-11532 Sep 05 j 22:12	25°♊12'53	0°40'47	
minimum elong	-11532 Sep 06 j 01:23	25°♊19'07	0°41'23	
	-11532 Sep 12 j 00:42	0°♋		
max. Earth dist.	-11532 Sep 18 j 09:26	4°♋58'55	2.38375 AU	
	-11532 Oct 20 j 15:10	0°♌		
desc. node	-11532 Nov 01 j 00:15	8°♌41'55		
morning rise	-11532 Nov 09 j 18:15	15°♌19'50		
	-11532 Nov 29 j 09:40	0°♍		
	-11531 Jan 10 j 01:24	0°♎		
	-11531 Feb 23 j 05:20	0°♏		
	-11531 Apr 11 j 17:14	0°♐		
	-11531 Jun 04 j 11:59	0°♑		
retrograde	-11531 Aug 15 j 18:35	22°♑22'05		
opposition	-11531 Sep 23 j 18:19	13°♑06'44	-1°29'26	
greatest brilliancy	-11531 Sep 23 j 22:08	13°♑02'56	-1.4m	
min. Earth dist.	-11531 Sep 26 j 08:24	12°♑04'52	0.65388 AU	
asc. node	-11531 Oct 30 j 15:20	3°♑14'50		
direct	-11531 Nov 03 j 11:47	3°♑09'01		
	-11530 Jan 22 j 14:13	0°♒		
	-11530 Mar 13 j 20:40	0°♓		
	-11530 Apr 26 j 22:03	0°♈		
	-11530 Jun 06 j 18:07	0°♉		
	-11530 Jul 15 j 19:39	0°♊		
	-11530 Aug 23 j 05:28	0°♋		
evening set	-11530 Sep 09 j 20:28	13°♋43'17		
desc. node	-11530 Sep 18 j 20:30	20°♋41'14		
	-11530 Sep 30 j 23:15	0°♌		
	-11530 Nov 09 j 21:03	0°♍		
conjunction	-11530 Nov 10 j 01:05	0°♍07'26	-0°37'09	
minimum elong	-11530 Nov 09 j 22:33	0°♍02'45	0°36'44	
max. Earth dist.	-11530 Dec 21 j 04:23	29°♍43'43	2.49208 AU	
	-11530 Dec 21 j 13:39	0°♎		
morning rise	-11529 Jan 07 j 19:18	11°♎58'44		
	-11529 Feb 03 j 09:32	0°♏		
	-11529 Mar 21 j 11:32	0°♐		
	-11529 May 09 j 02:22	0°♑		
	-11529 Jul 01 j 03:02	0°♒		
asc. node	-11529 Sep 17 j 16:52	28°♒32'11		
retrograde	-11529 Sep 24 j 14:18	28°♒49'25		
opposition	-11529 Oct 31 j 14:17	20°♒33'27	1°56'46	
greatest brilliancy	-11529 Oct 31 j 23:24	20°♒24'45	-1.7m	
min. Earth dist.	-11529 Nov 06 j 16:16	18°♒14'12	0.58747 AU	
direct	-11529 Dec 10 j 22:19	10°♒49'14		
	-11528 Feb 11 j 13:39	0°♓		
	-11528 Apr 01 j 16:53	0°♈		
	-11528 May 14 j 11:36	0°♉		
	-11528 Jun 23 j 12:03	0°♊		
	-11528 Aug 01 j 13:45	0°♋		
desc. node	-11528 Aug 05 j 21:21	3°♋19'05		
	-11528 Sep 09 j 21:17	0°♌		
	-11528 Oct 20 j 07:37	0°♍		
evening set	-11528 Nov 07 j 13:29	13°♍09'36		
	-11528 Dec 01 j 10:26	0°♎		
conjunction	-11527 Jan 01 j 01:15	20°♎59'48	-1°13'48	
minimum elong	-11527 Jan 01 j 00:31	20°♎58'33	1°13'59	
	-11527 Jan 14 j 11:11	0°♏		
max. Earth dist.	-11527 Jan 24 j 21:41	6°♏56'02	2.59740 AU	
morning rise	-11527 Feb 21 j 18:53	25°♏10'32		
	-11527 Mar 01 j 06:05	0°♐		
	-11527 Apr 17 j 10:28	0°♑		
	-11527 Jun 04 j 20:05	0°♒		
	-11527 Jul 25 j 07:05	0°♓		
asc. node	-11527 Aug 04 j 13:51	5°♓49'02		
	-11527 Sep 21 j 03:39	0°♈		
retrograde	-11527 Nov 14 j 08:47	14°♈00'33		
opposition	-11527 Dec 18 j 02:07	7°♈22'58	5°54'38	
greatest brilliancy	-11527 Dec 19 j 15:01	6°♈51'57	-2.2m	
min. Earth dist.	-11527 Dec 26 j 02:51	4°♈42'05	0.47412 AU	
	-11526 Jan 14 j 03:44	30°℞♓		
direct	-11526 Jan 24 j 03:44	29°♓18'02		
	-11526 Feb 03 j 09:02	0°♈		
	-11526 Apr 13 j 20:11	0°♉		
	-11526 May 28 j 14:41	0°♊		
desc. node	-11526 Jun 24 j 01:57	19°♊01'34		
	-11526 Jul 09 j 02:44	0°♋		
	-11526 Aug 19 j 02:43	0°♌		
	-11526 Sep 29 j 20:24	0°♍		
	-11526 Nov 11 j 23:06	0°♎		
evening set	-11526 Dec 25 j 13:36	29°♎16'28		
	-11526 Dec 26 j 15:58	0°♏		
	-11525 Feb 10 j 17:02	0°♐		
conjunction	-11525 Feb 13 j 10:41	1°♐45'44	-1°04'09	
minimum elong	-11525 Feb 13 j 12:07	1°♐48'02	1°04'42	
max. Earth dist.	-11525 Feb 20 j 20:30	6°♐31'36	2.65510 AU	
	-11525 Mar 29 j 12:32	0°♑		
morning rise	-11525 Apr 02 j 09:34	2°♑28'35		
	-11525 May 15 j 11:01	0°♒		

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

asc. node	-11525 Jun 22 j 07:01	24°♒17'26		
	-11525 Jul 01 j 03:53	0°♓		
	-11525 Aug 16 j 19:59	0°♈		
	-11525 Oct 03 j 12:10	0°♉		
	-11525 Nov 25 j 00:03	0°♊		
retrograde	-11524 Jan 26 j 23:36	19°♊22'04		
opposition	-11524 Feb 26 j 19:34	14°♊13'00	5°22'32	
greatest brilliancy	-11524 Feb 27 j 05:27	14°♊06'22	-2.9m	
min. Earth dist.	-11524 Feb 27 j 21:34	13°♊55'33	0.38516 AU	
direct	-11524 Mar 28 j 14:52	8°♊59'17		
desc. node	-11524 May 11 j 06:52	19°♊43'40		
	-11524 Jun 01 j 04:46	0°♋		
	-11524 Jul 21 j 07:32	0°♌		
	-11524 Sep 05 j 08:54	0°♍		
	-11524 Oct 21 j 00:34	0°♎		
	-11524 Dec 06 j 06:16	0°♏		
	-11523 Jan 22 j 03:13	0°♐		
evening set	-11523 Feb 03 j 18:27	8°♐03'04		
	-11523 Mar 10 j 03:46	0°♑		
max. Earth dist.	-11523 Mar 16 j 05:32	3°♑53'30	2.65992 AU	
conjunction	-11523 Mar 23 j 19:59	8°♑46'17	-0°27'07	
minimum elong	-11523 Mar 23 j 21:01	8°♑47'58	0°27'45	
	-11523 Apr 25 j 15:09	0°♒		
asc. node	-11523 May 08 j 23:12	8°♒43'59		
morning rise	-11523 May 09 j 16:27	9°♒12'21		
	-11523 Jun 09 j 23:55	0°♓		
	-11523 Jul 24 j 01:22	0°♈		
	-11523 Sep 04 j 23:05	0°♉		
	-11523 Oct 17 j 04:25	0°♊		
	-11523 Nov 28 j 15:03	0°♋		
	-11522 Jan 12 j 14:42	0°♌		
	-11522 Mar 15 j 17:36	0°♍		
desc. node	-11522 Mar 29 j 09:00	2°♍25'40		
retrograde	-11522 Apr 04 j 21:12	2°♍43'29		
	-11522 Apr 24 j 17:11	30°℞♌		
min. Earth dist.	-11522 May 02 j 19:04	27°♌36'02	0.44757 AU	
opposition	-11522 May 10 j 16:56	24°♌58'31	-2°47'12	
greatest brilliancy	-11522 May 09 j 19:56	25°♌16'01	-2.5m	
direct	-11522 Jun 12 j 01:14	18°♌36'53		
	-11522 Jul 28 j 21:20	0°♍		
	-11522 Sep 25 j 07:00	0°♎		
	-11522 Nov 14 j 21:26	0°♏		
	-11521 Jan 02 j 18:12	0°♐		
	-11521 Feb 19 j 15:01	0°♑		
evening set	-11521 Mar 15 j 04:53	15°♑03'47		
asc. node	-11521 Mar 26 j 18:26	22°♑32'30		
	-11521 Apr 07 j 04:52	0°♒		
max. Earth dist.	-11521 Apr 11 j 08:22	2°♒43'18	2.61188 AU	
conjunction	-11521 May 02 j 18:22	16°♒56'22	0°22'27	
minimum elong	-11521 May 02 j 17:27	16°♒54'49	0°21'58	
	-11521 May 22 j 01:41	0°♓		
morning rise	-11521 Jun 20 j 06:33	20°♓13'51		
	-11521 Jul 04 j 01:56	0°♈		
	-11521 Aug 14 j 09:57	0°♉		
	-11521 Sep 23 j 13:15	0°♊		
	-11521 Nov 02 j 04:24	0°♋		
	-11521 Dec 12 j 06:24	0°♌		
	-11520 Jan 23 j 06:53	0°♍		
desc. node	-11520 Feb 14 j 08:37	14°♍40'25		
	-11520 Mar 10 j 14:01	0°♎		
retrograde	-11520 May 21 j 14:04	25°♎08'41		
min. Earth dist.	-11520 Jun 23 j 09:12	17°♎57'31	0.56745 AU	
opposition	-11520 Jun 29 j 16:39	15°♎30'41	-5°25'22	
greatest brilliancy	-11520 Jun 28 j 12:51	15°♎57'42	-1.8m	
direct	-11520 Aug 04 j 19:37	7°♎19'25		
	-11520 Oct 16 j 17:44	0°♏		
	-11520 Dec 11 j 01:03	0°♐		
	-11519 Jan 30 j 03:28	0°♑		
asc. node	-11519 Feb 10 j 18:52	7°♑13'49		
	-11519 Mar 18 j 11:49	0°♒		
evening set	-11519 Apr 25 j 09:25	25°♒13'10		
	-11519 May 02 j 09:16	0°♓		
max. Earth dist.	-11519 May 12 j 17:53	7°♓09'19	2.51606 AU	
	-11519 Jun 13 j 23:18	0°♈		
conjunction	-11519 Jun 16 j 04:46	1°♈36'42	1°05'28	
minimum elong	-11519 Jun 16 j 03:02	1°♈33'32	1°05'25	
	-11519 Jul 24 j 14:25	0°♉		
morning rise	-11519 Aug 09 j 14:50	12°♉08'15		
	-11519 Sep 01 j 21:16	0°♊		
	-11519 Oct 10 j 14:16	0°♋		
	-11519 Nov 18 j 14:16	0°♌		
	-11519 Dec 28 j 20:37	0°♍		
desc. node	-11518 Jan 01 j 03:07	2°♍22'21		
	-11518 Feb 09 j 13:29	0°♎		
	-11518 Mar 28 j 20:47	0°♏		
	-11518 May 31 j 12:49	0°♐		
retrograde	-11518 Jun 28 j 13:11	4°♐32'20		
	-11518 Jul 24 j 09:16	30°℞♏		
min. Earth dist.	-11518 Aug 04 j 19:53	25°♏41'34	0.64568 AU	
opposition	-11518 Aug 07 j 11:13	24°♏37'45	-4°42'16	
greatest brilliancy	-11518 Aug 07 j 01:46	24°♏47'17	-1.4m	
direct	-11518 Sep 15 j 06:47	15°♏21'27		
	-11518 Nov 10 j 16:34	0°♐		
asc. node	-11518 Dec 29 j 23:21	24°♐53'28		
	-11517 Jan 08 j 00:10	0°♑		
	-11517 Feb 26 j 15:14	0°♒		
	-11517 Apr 13 j 05:28	0°♓		
	-11517 May 25 j 20:42	0°♈		
evening set	-11517 Jun 14 j 17:24	14°♈34'53		
	-11517 Jul 05 j 05:54	0°♉		
max. Earth dist.	-11517 Jul 13 j 11:26	6°♉16'19	2.39986 AU	
conjunction	-11517 Aug 12 j 06:22	29°♉17'44	1°03'07	
minimum elong	-11517 Aug 12 j 09:05	29°♉23'02	1°03'37	
	-11517 Aug 13 j 04:03	0°♊		
	-11517 Sep 20 j 12:03	0°♋		
morning rise	-11517 Oct 14 j 22:07	19°♋01'50		
	-11517 Oct 29 j 03:20	0°♌		
desc. node	-11517 Nov 18 j 19:27	15°♌43'38		
	-11517 Dec 07 j 22:39	0°♍		
	-11516 Jan 18 j 16:50	0°♎		
	-11516 Mar 03 j 05:19	0°♏		
	-11516 Apr 20 j 23:02	0°♐		
	-11516 Jun 20 j 06:57	0°♑		
retrograde	-11516 Aug 01 j 18:53	9°♑13'57		
	-11516 Sep 09 j 12:22	30°℞♐		
opposition	-11516 Sep 10 j 05:36	29°♐42'42	-2°34'37	
greatest brilliancy	-11516 Sep 10 j 08:39	29°♐39'38	-1.4m	
min. Earth dist.	-11516 Sep 11 j 08:42	29°♐15'28	0.66367 AU	
direct	-11516 Oct 20 j 15:36	19°♐51'14		
asc. node	-11516 Nov 16 j 04:54	23°♐44'43		
	-11516 Dec 04 j 20:30	0°♑		
	-11515 Feb 02 j 13:27	0°♒		
	-11515 Mar 22 j 13:13	0°♓		
	-11515 May 04 j 22:44	0°♈		
	-11515 Jun 14 j 12:52	0°♉		
	-11515 Jul 23 j 11:25	0°♊		
evening set	-11515 Aug 15 j 02:08	17°♊41'54		
	-11515 Aug 30 j 18:53	0°♋		
desc. node	-11515 Oct 05 j 14:40	27°♋50'32		
	-11515 Oct 08 j 10:04	0°♌		

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11515 Oct 16 j 18:30	6°♌23'15	-0°08'28
minimum elong	-11515 Oct 16 j 17:48	6°♌21'55	0°07'56
behind sun begin	-11515 Oct 15 j 18:16	5°♌37'05	
behind sun end	-11515 Oct 17 j 17:20	7°♌06'43	
	-11515 Nov 17 j 05:13	0°♍	
max. Earth dist.	-11515 Nov 30 j 09:48	9°♍40'14	2.44315 AU
morning rise	-11515 Dec 17 j 17:47	22°♍09'03	
	-11515 Dec 28 j 19:57	0°♎	
	-11514 Feb 10 j 16:34	0°♏	
	-11514 Mar 29 j 02:34	0°♐	
	-11514 May 17 j 21:46	0°♑	
	-11514 Jul 14 j 23:18	0°♒	
retrograde	-11514 Sep 08 j 06:03	14°♒15'01	
asc. node	-11514 Oct 04 j 08:37	9°♒50'31	
opposition	-11514 Oct 16 j 04:07	5°♒32'11	0°30'28
greatest brilliancy	-11514 Oct 16 j 06:00	5°♒30'22	-1.6m
min. Earth dist.	-11514 Oct 20 j 22:28	3°♒40'37	0.62018 AU
	-11514 Oct 31 j 02:04	30°℞♑	
direct	-11514 Nov 25 j 21:06	25°♑36'26	
	-11514 Dec 23 j 14:30	0°♒	
	-11513 Feb 25 j 05:35	0°♓	
	-11513 Apr 12 j 16:09	0°♈	
	-11513 May 24 j 09:11	0°♉	
	-11513 Jul 02 j 21:23	0°♊	
	-11513 Aug 10 j 14:43	0°♋	
desc. node	-11513 Aug 23 j 14:16	10°♋02'44	
	-11513 Sep 18 j 14:54	0°♌	
evening set	-11513 Oct 17 j 19:36	21°♌55'45	
	-11513 Oct 28 j 18:29	0°♍	
	-11513 Dec 09 j 15:35	0°♎	
conjunction	-11513 Dec 13 j 22:00	2°♎58'48	-1°06'06
minimum elong	-11513 Dec 13 j 20:00	2°♎55'20	1°06'05
max. Earth dist.	-11512 Jan 13 j 19:14	24°♎08'35	2.56105 AU
	-11512 Jan 22 j 12:39	0°♏	
morning rise	-11512 Feb 06 j 00:12	9°♏36'52	
	-11512 Mar 08 j 08:06	0°♐	
	-11512 Apr 24 j 21:20	0°♑	
	-11512 Jun 13 j 10:17	0°♒	
	-11512 Aug 06 j 11:35	0°♓	
asc. node	-11512 Aug 21 j 07:56	7°♓13'43	
retrograde	-11512 Oct 23 j 02:03	24°♓54'59	
opposition	-11512 Nov 27 j 05:40	17°♓33'20	4°24'30
greatest brilliancy	-11512 Nov 28 j 07:56	17°♓09'43	-2.0m
min. Earth dist.	-11512 Dec 04 j 22:03	14°♓48'09	0.52179 AU
direct	-11511 Jan 05 j 01:11	8°♓34'30	
	-11511 Mar 11 j 00:31	0°♈	
	-11511 Apr 27 j 16:21	0°♉	
	-11511 Jun 08 j 11:55	0°♊	
desc. node	-11511 Jul 10 j 16:48	24°♊02'40	
	-11511 Jul 18 j 15:01	0°♋	
	-11511 Aug 27 j 17:25	0°♌	
	-11511 Oct 07 j 19:00	0°♍	
	-11511 Nov 19 j 09:45	0°♎	
evening set	-11511 Dec 08 j 01:12	12°♎45'01	
	-11510 Jan 02 j 18:19	0°♏	
conjunction	-11510 Jan 28 j 08:45	16°♏50'45	-1°12'04
minimum elong	-11510 Jan 28 j 09:39	16°♏52'13	1°12'30
max. Earth dist.	-11510 Feb 10 j 22:52	25°♏40'39	2.63878 AU
	-11510 Feb 17 j 15:17	0°♐	
morning rise	-11510 Mar 18 j 10:23	18°♐28'57	
	-11510 Apr 05 j 12:13	0°♑	
	-11510 May 22 j 20:24	0°♒	
asc. node	-11510 Jul 09 j 02:01	29°♒42'30	
	-11510 Jul 09 j 13:13	0°♓	
	-11510 Aug 27 j 10:18	0°♈	
	-11510 Oct 20 j 01:18	0°♉	
retrograde	-11510 Dec 26 j 23:34	20°♉57'35	
opposition	-11509 Jan 27 j 05:19	15°♉32'00	6°55'28
greatest brilliancy	-11509 Jan 28 j 14:58	15°♉07'45	-2.7m
min. Earth dist.	-11509 Feb 01 j 19:29	13°♉55'40	0.40698 AU
direct	-11509 Mar 01 j 09:27	9°♉23'00	
	-11509 May 02 j 19:15	0°♊	
desc. node	-11509 May 28 j 22:30	15°♊31'49	
	-11509 Jun 20 j 05:41	0°♋	
	-11509 Aug 03 j 07:35	0°♌	
	-11509 Sep 15 j 21:32	0°♍	
	-11509 Oct 30 j 05:12	0°♎	
	-11509 Dec 14 j 16:24	0°♏	
evening set	-11508 Jan 20 j 06:06	23°♏39'11	
	-11508 Jan 30 j 03:22	0°♐	
max. Earth dist.	-11508 Mar 06 j 20:50	23°♐30'09	2.66444 AU
conjunction	-11508 Mar 08 j 17:44	24°♐41'57	-0°43'42
minimum elong	-11508 Mar 08 j 19:11	24°♐44'17	0°44'20
	-11508 Mar 17 j 00:30	0°♑	
morning rise	-11508 Apr 24 j 17:09	24°♑53'22	
	-11508 May 02 j 14:28	0°♒	
asc. node	-11508 May 25 j 17:48	15°♒05'22	
	-11508 Jun 17 j 08:47	0°♓	
	-11508 Aug 01 j 04:04	0°♈	
	-11508 Sep 14 j 06:21	0°♉	
	-11508 Oct 28 j 08:12	0°♊	
	-11508 Dec 13 j 04:08	0°♋	
	-11507 Feb 08 j 11:31	0°♌	
retrograde	-11507 Mar 12 j 02:17	6°♌14'47	
min. Earth dist.	-11507 Apr 08 j 14:34	1°♌34'32	0.40612 AU
	-11507 Apr 13 j 21:19	30°℞♋	
opposition	-11507 Apr 14 j 13:43	29°♋47'43	0°02'37
greatest brilliancy	-11507 Sep 01 j 07:23	8°♍53'05	-4.3m
desc. node	-11507 Apr 15 j 03:40	29°♋37'19	
direct	-11507 May 15 j 10:56	24°♋14'58	
	-11507 Jun 16 j 01:01	0°♌	
	-11507 Aug 17 j 02:06	0°♍	
	-11507 Oct 06 j 02:31	0°♎	
	-11507 Nov 23 j 07:52	0°♏	
	-11506 Jan 10 j 04:31	0°♐	
	-11506 Feb 26 j 15:12	0°♑	
evening set	-11506 Feb 27 j 20:03	0°♑45'59	
max. Earth dist.	-11506 Mar 31 j 19:35	21°♑19'50	2.63678 AU
asc. node	-11506 Apr 12 j 11:05	28°♑55'06	
	-11506 Apr 14 j 02:46	0°♒	
conjunction	-11506 Apr 16 j 22:11	1°♒50'28	0°02'45
minimum elong	-11506 Apr 16 j 22:07	1°♒50'22	0°02'10
behind sun begin	-11506 Apr 16 j 02:23	1°♒18'01	
behind sun end	-11506 Apr 17 j 17:51	2°♒22'43	
	-11506 May 29 j 02:58	0°♓	
morning rise	-11506 Jun 03 j 09:18	3°♓35'01	
	-11506 Jul 11 j 10:58	0°♈	
	-11506 Aug 22 j 06:24	0°♉	
	-11506 Oct 01 j 23:44	0°♊	
	-11506 Nov 11 j 07:45	0°♋	
	-11506 Dec 22 j 08:59	0°♌	
	-11505 Feb 04 j 09:04	0°♍	
desc. node	-11505 Mar 03 j 03:25	16°♍00'31	
	-11505 Apr 01 j 17:42	0°♎	
retrograde	-11505 May 05 j 17:12	7°♎03'02	
min. Earth dist.	-11505 Jun 05 j 11:04	0°♎40'18	0.52282 AU
	-11505 Jun 07 j 06:58	30°℞♍	
opposition	-11505 Jun 12 j 22:12	27°♍53'31	-4°59'55
greatest brilliancy	-11505 Jun 11 j 14:46	28°♍22'57	-2.0m
direct	-11505 Jul 17 j 16:54	20°♍19'16	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11505 Aug 29 j 22:44	0°♎	
	-11505 Oct 29 j 23:58	0°♏	
	-11505 Dec 20 j 16:07	0°♐	
	-11504 Feb 07 j 15:26	0°♑	
asc. node	-11504 Feb 28 j 09:52	13°♑06'32	
	-11504 Mar 25 j 14:25	0°♒	
evening set	-11504 Apr 08 j 08:25	9°♒02'45	
max. Earth dist.	-11504 Apr 28 j 19:41	22°♒45'26	2.55858 AU
	-11504 May 09 j 10:42	0°♓	
conjunction	-11504 May 28 j 12:06	13°♓12'24	0°51'23
minimum elong	-11504 May 28 j 10:13	13°♓09'06	0°51'09
	-11504 Jun 21 j 03:50	0°♈	
morning rise	-11504 Jul 18 j 23:03	20°♈17'10	
	-11504 Aug 01 j 00:22	0°♉	
	-11504 Sep 09 j 13:25	0°♊	
	-11504 Oct 18 j 12:47	0°♋	
	-11504 Nov 26 j 19:29	0°♌	
	-11503 Jan 06 j 11:23	0°♍	
desc. node	-11503 Jan 17 j 22:45	8°♍09'14	
	-11503 Feb 19 j 01:56	0°♎	
	-11503 Apr 10 j 14:35	0°♏	
retrograde	-11503 Jun 14 j 10:08	20°♏16'48	
min. Earth dist.	-11503 Jul 20 j 02:11	12°♏00'45	0.62198 AU
opposition	-11503 Jul 24 j 05:04	10°♏21'53	-5°12'22
greatest brilliancy	-11503 Jul 23 j 12:16	10°♏38'41	-1.5m
direct	-11503 Aug 31 j 02:18	1°♏26'51	
	-11503 Nov 24 j 08:30	0°♐	
asc. node	-11502 Jan 15 j 13:19	29°♐13'11	
	-11502 Jan 16 j 20:49	0°♑	
	-11502 Mar 06 j 07:42	0°♒	
	-11502 Apr 20 j 13:21	0°♓	
evening set	-11502 May 24 j 18:39	23°♓58'43	
	-11502 Jun 02 j 03:14	0°♈	
max. Earth dist.	-11502 Jun 11 j 12:00	6°♈49'26	2.44316 AU
	-11502 Jul 12 j 14:07	0°♉	
conjunction	-11502 Jul 19 j 07:51	5°♉07'12	1°12'50
minimum elong	-11502 Jul 19 j 08:23	5°♉08'12	1°13'10
	-11502 Aug 20 j 14:51	0°♊	
morning rise	-11502 Sep 17 j 16:19	21°♊53'42	
	-11502 Sep 28 j 01:22	0°♋	
	-11502 Nov 05 j 18:39	0°♌	
desc. node	-11502 Dec 05 j 16:22	22°♌36'26	
	-11502 Dec 15 j 16:02	0°♍	
	-11501 Jan 26 j 14:59	0°♎	
	-11501 Mar 12 j 18:00	0°♏	
	-11501 May 02 j 17:50	0°♐	
retrograde	-11501 Jul 20 j 02:46	26°♐07'54	
opposition	-11501 Aug 28 j 20:53	16°♐24'12	-3°31'28
greatest brilliancy	-11501 Aug 28 j 20:32	16°♐24'34	-1.4m
min. Earth dist.	-11501 Aug 28 j 12:32	16°♐32'38	0.66407 AU
direct	-11501 Oct 07 j 19:04	6°♐43'21	
asc. node	-11501 Dec 03 j 19:13	21°♐40'47	
	-11501 Dec 21 j 10:16	0°♑	
	-11500 Feb 12 j 22:11	0°♒	
	-11500 Mar 30 j 15:30	0°♓	
	-11500 May 12 j 15:20	0°♈	
	-11500 Jun 22 j 02:20	0°♉	
evening set	-11500 Jul 20 j 14:05	21°♉53'51	
	-11500 Jul 30 j 23:47	0°♊	
	-11500 Sep 07 j 06:34	0°♋	
conjunction	-11500 Sep 20 j 21:02	10°♋38'16	0°23'46
minimum elong	-11500 Sep 20 j 23:11	10°♋42'29	0°24'23
	-11500 Oct 15 j 20:50	0°♌	
desc. node	-11500 Oct 22 j 09:28	5°♌00'10	
max. Earth dist.	-11500 Oct 26 j 01:58	7°♌49'01	2.39854 AU
morning rise	-11500 Nov 24 j 04:53	29°♌41'43	
	-11500 Nov 24 j 14:46	0°♍	
	-11499 Jan 05 j 05:06	0°♎	
	-11499 Feb 18 j 04:34	0°♏	
	-11499 Apr 06 j 03:42	0°♐	
	-11499 May 27 j 22:32	0°♑	
	-11499 Aug 15 j 07:51	0°♒	
retrograde	-11499 Aug 24 j 02:01	0°♒27'48	
	-11499 Sep 01 j 12:44	30°℞♑	
opposition	-11499 Oct 01 j 17:42	21°♑22'45	-0°47'51
greatest brilliancy	-11499 Oct 01 j 20:25	21°♑20'03	-1.5m
min. Earth dist.	-11499 Oct 05 j 02:21	20°♑02'50	0.64455 AU
asc. node	-11499 Oct 21 j 00:03	14°♑28'19	
direct	-11499 Nov 11 j 12:36	11°♑23'51	
	-11498 Jan 14 j 01:42	0°♒	
	-11498 Mar 07 j 21:06	0°♓	
	-11498 Apr 21 j 14:38	0°♈	
	-11498 Jun 01 j 17:06	0°♉	
	-11498 Jul 10 j 21:39	0°♊	
	-11498 Aug 18 j 09:23	0°♋	
desc. node	-11498 Sep 09 j 07:07	17°♋00'54	
evening set	-11498 Sep 24 j 02:22	28°♋24'11	
	-11498 Sep 26 j 04:27	0°♌	
	-11498 Nov 05 j 03:11	0°♍	
conjunction	-11498 Nov 22 j 23:11	12°♍59'59	-0°50'10
minimum elong	-11498 Nov 22 j 20:27	12°♍55'03	0°49'55
	-11498 Dec 16 j 20:20	0°♎	
max. Earth dist.	-11498 Dec 30 j 18:34	9°♎42'05	2.51823 AU
morning rise	-11497 Jan 18 j 22:34	22°♎48'10	
	-11497 Jan 29 j 15:23	0°♏	
	-11497 Mar 16 j 13:37	0°♐	
	-11497 May 03 j 16:20	0°♑	
	-11497 Jun 24 j 00:36	0°♒	
	-11497 Aug 25 j 18:09	0°♓	
asc. node	-11497 Sep 08 j 00:38	4°♓13'04	
retrograde	-11497 Oct 04 j 16:21	8°♓07'04	
opposition	-11497 Nov 10 j 02:05	0°♓08'23	2°49'24
	-11497 Nov 10 j 11:01	30°℞♒	
greatest brilliancy	-11497 Nov 10 j 16:46	29°♒54'36	-1.8m
min. Earth dist.	-11497 Nov 16 j 19:14	27°♒37'17	0.56612 AU
direct	-11497 Dec 20 j 00:20	20°♒35'51	
	-11496 Jan 30 j 03:42	0°♓	
	-11496 Mar 25 j 14:43	0°♈	
	-11496 May 08 j 12:41	0°♉	
	-11496 Jun 18 j 00:34	0°♊	
desc. node	-11496 Jul 27 j 10:09	0°♋01'47	
	-11496 Jul 27 j 09:13	0°♋	
	-11496 Sep 04 j 21:41	0°♌	
	-11496 Oct 15 j 11:39	0°♍	
evening set	-11496 Nov 19 j 02:33	24°♍41'22	
	-11496 Nov 26 j 17:12	0°♎	
	-11495 Jan 09 j 19:20	0°♏	
conjunction	-11495 Jan 11 j 08:28	1°♏01'52	-1°14'54
minimum elong	-11495 Jan 11 j 08:26	1°♏01'47	1°15'12
max. Earth dist.	-11495 Jan 31 j 10:18	14°♏17'39	2.61424 AU
	-11495 Feb 24 j 13:57	0°♐	
morning rise	-11495 Mar 03 j 00:07	4°♐08'23	
	-11495 Apr 12 j 14:30	0°♑	
	-11495 May 30 j 12:49	0°♒	
	-11495 Jul 18 j 17:31	0°♓	
asc. node	-11495 Jul 25 j 20:17	4°♓13'23	
	-11495 Sep 09 j 17:31	0°♈	
retrograde	-11495 Nov 28 j 15:34	26°♈34'43	
opposition	-11495 Dec 31 j 10:57	20°♈24'16	6°34'22

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

greatest brilliancy	-11494 Jan 02 j 03:09	19°♈52'13	-2.4m
min. Earth dist.	-11494 Jan 08 j 05:00	17°♈56'51	0.44795 AU
direct	-11494 Feb 05 j 06:46	12°♈58'24	
	-11494 Apr 01 j 20:27	0°♉	
	-11494 May 20 j 18:01	0°♊	
desc. node	-11494 Jun 14 j 14:38	17°♊11'36	
	-11494 Jul 02 j 15:04	0°♋	
	-11494 Aug 13 j 09:17	0°♌	
	-11494 Sep 24 j 14:33	0°♍	
	-11494 Nov 07 j 01:08	0°♎	
	-11494 Dec 21 j 22:46	0°♏	
evening set	-11493 Jan 04 j 03:29	8°♏38'53	
	-11493 Feb 06 j 02:17	0°♐	
conjunction	-11493 Feb 22 j 10:25	10°♐29'50	-0°57'37
minimum elong	-11493 Feb 22 j 11:58	10°♐32'19	0°58'12
max. Earth dist.	-11493 Feb 26 j 12:48	13°♐07'29	2.66062 AU
	-11493 Mar 24 j 21:37	0°♑	
morning rise	-11493 Apr 10 j 22:25	10°♑54'06	
	-11493 May 10 j 16:25	0°♒	
asc. node	-11493 Jun 12 j 12:23	21°♒13'38	
	-11493 Jun 26 j 00:08	0°♓	
	-11493 Aug 10 j 20:53	0°♈	
	-11493 Sep 25 j 20:44	0°♉	
	-11493 Nov 12 j 16:03	0°♊	
	-11492 Jan 10 j 11:21	0°♋	
retrograde	-11492 Feb 13 j 08:49	6°♋43'51	
min. Earth dist.	-11492 Mar 13 j 20:34	1°♋49'39	0.38472 AU
opposition	-11492 Mar 15 j 14:36	1°♋21'12	3°37'18
greatest brilliancy	-11492 Mar 15 j 13:25	1°♋22'01	-2.9m
	-11492 Mar 20 j 16:10	30°℞♊	
direct	-11492 Apr 14 j 23:32	26°♊14'55	
desc. node	-11492 May 01 j 19:00	28°♊01'18	
	-11492 May 09 j 19:20	0°♋	
	-11492 Jul 12 j 02:41	0°♌	
	-11492 Aug 29 j 17:06	0°♍	
	-11492 Oct 15 j 11:03	0°♎	
	-11492 Dec 01 j 06:00	0°♏	
	-11491 Jan 17 j 09:54	0°♐	
evening set	-11491 Feb 12 j 14:00	16°♐37'33	
	-11491 Mar 05 j 13:24	0°♑	
max. Earth dist.	-11491 Mar 21 j 21:08	10°♑28'05	2.65381 AU
conjunction	-11491 Apr 01 j 13:47	17°♑21'45	-0°16'33
minimum elong	-11491 Apr 01 j 14:28	17°♑22'50	0°17'10
	-11491 Apr 21 j 00:32	0°♒	
asc. node	-11491 Apr 29 j 04:57	5°♒21'34	
morning rise	-11491 May 18 j 12:33	18°♒07'36	
	-11491 Jun 05 j 06:10	0°♓	
	-11491 Jul 19 j 00:52	0°♈	
	-11491 Aug 30 j 12:09	0°♉	
	-11491 Oct 11 j 02:03	0°♊	
	-11491 Nov 21 j 13:13	0°♋	
	-11490 Jan 03 j 11:01	0°♌	
	-11490 Feb 21 j 19:49	0°♍	
desc. node	-11490 Mar 19 j 21:36	11°♍18'28	
retrograde	-11490 Apr 16 j 20:22	16°♍19'19	
min. Earth dist.	-11490 May 15 j 13:52	10°♍47'07	0.47401 AU
greatest brilliancy	-11490 May 22 j 11:37	8°♍22'54	-2.3m
opposition	-11490 May 23 j 15:40	7°♍58'19	-3°52'07
direct	-11490 Jun 25 j 22:17	1°♍09'06	
	-11490 Sep 17 j 04:43	0°♎	
	-11490 Nov 09 j 00:37	0°♏	
	-11490 Dec 28 j 16:33	0°♐	
	-11489 Feb 14 j 21:35	0°♑	
asc. node	-11489 Mar 17 j 01:34	19°♑15'06	
evening set	-11489 Mar 24 j 04:50	23°♑52'19	
	-11489 Apr 02 j 14:25	0°♒	
max. Earth dist.	-11489 Apr 17 j 18:04	9°♒59'10	2.59468 AU
conjunction	-11489 May 12 j 05:13	26°♒25'15	0°33'35
minimum elong	-11489 May 12 j 03:51	26°♒22'55	0°33'10
	-11489 May 17 j 11:10	0°♓	
	-11489 Jun 29 j 08:49	0°♈	
morning rise	-11489 Jun 30 j 13:56	0°♈52'02	
	-11489 Aug 09 j 12:38	0°♉	
	-11489 Sep 18 j 10:20	0°♊	
	-11489 Oct 27 j 18:58	0°♋	
	-11489 Dec 06 j 12:23	0°♌	
	-11488 Jan 16 j 20:54	0°♍	
desc. node	-11488 Feb 04 j 18:36	12°♍58'56	
	-11488 Mar 02 j 05:09	0°♎	
	-11488 May 01 j 22:28	0°♏	
retrograde	-11488 May 30 j 13:40	4°♏57'12	
	-11488 Jun 26 j 07:36	30°℞♎	
min. Earth dist.	-11488 Jul 03 j 10:35	27°♎21'27	0.58915 AU
greatest brilliancy	-11488 Jul 07 j 23:48	25°♎34'02	-1.7m
opposition	-11488 Jul 09 j 00:02	25°♎10'08	-5°26'47
direct	-11488 Aug 14 j 18:48	16°♎41'46	
	-11488 Oct 06 j 15:10	0°♏	
	-11488 Dec 04 j 22:54	0°♐	
	-11487 Jan 25 j 00:41	0°♑	
asc. node	-11487 Feb 01 j 03:51	4°♑22'20	
	-11487 Mar 13 j 17:37	0°♒	
	-11487 Apr 27 j 18:16	0°♓	
evening set	-11487 May 05 j 14:40	5°♓24'33	
max. Earth dist.	-11487 May 22 j 00:23	16°♓53'12	2.49060 AU
	-11487 Jun 09 j 08:29	0°♈	
conjunction	-11487 Jun 27 j 14:18	13°♈19'43	1°10'43
minimum elong	-11487 Jun 27 j 13:04	13°♈17'27	1°10'49
	-11487 Jul 19 j 22:13	0°♉	
morning rise	-11487 Aug 23 j 01:04	26°♉04'59	
	-11487 Aug 28 j 02:35	0°♊	
	-11487 Oct 05 j 16:39	0°♋	
	-11487 Nov 13 j 13:23	0°♌	
desc. node	-11487 Dec 22 j 11:33	29°♌09'47	
	-11487 Dec 23 j 14:58	0°♍	
	-11486 Feb 03 j 22:43	0°♎	
	-11486 Mar 22 j 03:28	0°♏	
	-11486 May 17 j 01:18	0°♐	
retrograde	-11486 Jul 06 j 12:07	12°♐49'45	
min. Earth dist.	-11486 Aug 13 j 13:56	3°♐42'01	0.65497 AU
opposition	-11486 Aug 15 j 09:52	2°♐57'41	-4°19'12
greatest brilliancy	-11486 Aug 15 j 04:05	3°♐03'31	-1.4m
	-11486 Aug 22 j 22:22	30°℞♏	
direct	-11486 Sep 23 j 15:51	23°♏31'37	
	-11486 Oct 28 j 22:03	0°♐	
asc. node	-11486 Dec 20 j 08:25	23°♐20'40	
	-11485 Jan 01 j 16:19	0°♑	
	-11485 Feb 21 j 09:32	0°♒	
	-11485 Apr 08 j 08:52	0°♓	
	-11485 May 21 j 03:26	0°♈	
evening set	-11485 Jun 27 j 10:34	27°♈37'39	
	-11485 Jun 30 j 13:43	0°♉	
	-11485 Aug 08 j 11:38	0°♊	
max. Earth dist.	-11485 Aug 13 j 10:08	3°♊51'20	2.38477 AU
conjunction	-11485 Aug 26 j 14:06	14°♊09'43	0°51'53
minimum elong	-11485 Aug 26 j 17:25	14°♊16'14	0°52'27
	-11485 Sep 15 j 18:51	0°♋	
	-11485 Oct 24 j 09:01	0°♌	
morning rise	-11485 Oct 30 j 06:00	4°♌30'21	
desc. node	-11485 Nov 09 j 06:07	12°♌07'43	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11485 Dec 03 j 02:34	0°♍		
	-11484 Jan 13 j 17:43	0°♎		
	-11484 Feb 26 j 22:55	0°♏		
	-11484 Apr 14 j 19:29	0°♐		
	-11484 Jun 09 j 09:32	0°♑		
retrograde	-11484 Aug 09 j 19:33	17°♑12'42		
opposition	-11484 Sep 18 j 00:19	7°♑49'39	-1°57'40	
greatest brilliancy	-11484 Sep 18 j 04:06	7°♑45'52	-1.4m	
min. Earth dist.	-11484 Sep 19 j 22:22	7°♑03'34	0.65950 AU	
	-11484 Oct 10 j 20:04	30°℞♐		
direct	-11484 Oct 28 j 14:48	27°♐54'10		
asc. node	-11484 Nov 06 j 13:36	28°♐23'26		
	-11484 Nov 16 j 16:19	0°♑		
	-11483 Jan 26 j 19:16	0°♒		
	-11483 Mar 17 j 01:32	0°♓		
	-11483 Apr 29 j 20:58	0°♈		
	-11483 Jun 09 j 15:23	0°♉		
	-11483 Jul 18 j 15:57	0°♊		
	-11483 Aug 26 j 00:39	0°♋		
evening set	-11483 Aug 29 j 16:25	2°♋51'28		
desc. node	-11483 Sep 26 j 02:03	24°♋08'49		
	-11483 Oct 03 j 16:43	0°♌		
conjunction	-11483 Oct 30 j 18:06	20°♌30'55	-0°25'31	
minimum elong	-11483 Oct 30 j 16:07	20°♌27'12	0°25'03	
	-11483 Nov 12 j 12:10	0°♍		
max. Earth dist.	-11483 Dec 13 j 00:49	22°♍09'33	2.47017 AU	
	-11483 Dec 24 j 02:33	0°♎		
morning rise	-11483 Dec 30 j 00:08	4°♎08'10		
	-11482 Feb 05 j 21:00	0°♏		
	-11482 Mar 24 j 00:34	0°♐		
	-11482 May 12 j 00:15	0°♑		
	-11482 Jul 05 j 13:23	0°♒		
retrograde	-11482 Sep 17 j 10:32	22°♒54'47		
asc. node	-11482 Sep 24 j 16:16	22°♒34'30		
opposition	-11482 Oct 24 j 20:59	14°♒25'58	1°19'15	
greatest brilliancy	-11482 Oct 25 j 02:33	14°♒20'36	-1.6m	
min. Earth dist.	-11482 Oct 30 j 08:40	12°♒18'54	0.60323 AU	
direct	-11482 Dec 04 j 09:47	4°♒35'20		
	-11481 Feb 17 j 07:15	0°♓		
	-11481 Apr 06 j 14:22	0°♈		
	-11481 May 18 j 21:48	0°♉		
	-11481 Jun 27 j 16:41	0°♊		
	-11481 Aug 05 j 14:15	0°♋		
desc. node	-11481 Aug 14 j 01:53	6°♋32'38		
	-11481 Sep 13 j 17:44	0°♌		
	-11481 Oct 23 j 23:49	0°♍		
evening set	-11481 Oct 30 j 10:02	4°♍40'56		
	-11481 Dec 04 j 22:50	0°♎		
conjunction	-11481 Dec 25 j 01:04	13°♎53'48	-1°11'25	
minimum elong	-11481 Dec 24 j 23:46	13°♎51'35	1°11'32	
	-11480 Jan 17 j 20:32	0°♏		
max. Earth dist.	-11480 Jan 20 j 23:44	2°♏05'32	2.58200 AU	
morning rise	-11480 Feb 15 j 18:31	19°♏05'27		
	-11480 Mar 03 j 14:28	0°♐		
	-11480 Apr 19 j 21:22	0°♑		
	-11480 Jun 07 j 16:42	0°♒		
	-11480 Jul 29 j 08:42	0°♓		
asc. node	-11480 Aug 11 j 14:01	7°♓07'32		
	-11480 Oct 02 j 05:16	0°♈		
retrograde	-11480 Nov 04 j 06:25	5°♈51'10		
	-11480 Dec 05 j 09:58	30°℞♓		
opposition	-11480 Dec 08 j 16:28	28°♓52'51	5°17'06	
greatest brilliancy	-11480 Dec 10 j 01:10	28°♓24'26	-2.1m	
min. Earth dist.	-11480 Dec 16 j 16:43	26°♓06'48	0.49582 AU	
direct	-11479 Jan 15 j 15:22	20°♓21'04		
	-11479 Feb 25 j 07:35	0°♈		
	-11479 Apr 19 j 20:31	0°♉		
	-11479 Jun 02 j 01:34	0°♊		
desc. node	-11479 Jul 01 j 05:50	21°♊23'24		
	-11479 Jul 12 j 20:33	0°♋		
	-11479 Aug 22 j 09:17	0°♌		
	-11479 Oct 02 j 18:02	0°♍		
	-11479 Nov 14 j 13:59	0°♎		
evening set	-11479 Dec 18 j 05:26	22°♎46'57		
	-11479 Dec 29 j 01:50	0°♏		
conjunction	-11478 Feb 06 j 16:54	25°♏55'27	-1°08'01	
minimum elong	-11478 Feb 06 j 18:10	25°♏57'30	1°08'30	
	-11478 Feb 13 j 00:16	0°♐		
max. Earth dist.	-11478 Feb 16 j 19:13	2°♐26'39	2.64884 AU	
morning rise	-11478 Mar 27 j 02:25	26°♐59'13		
	-11478 Mar 31 j 19:47	0°♑		
	-11478 May 17 j 22:06	0°♒		
asc. node	-11478 Jun 29 j 07:30	27°♒00'13		
	-11478 Jul 04 j 00:32	0°♓		
	-11478 Aug 20 j 12:12	0°♈		
	-11478 Oct 09 j 01:33	0°♉		
	-11478 Dec 08 j 20:25	0°♊		
retrograde	-11477 Jan 13 j 06:03	6°♊58'27		
opposition	-11477 Feb 13 j 03:07	1°♊47'30	6°19'04	
greatest brilliancy	-11477 Feb 14 j 00:30	1°♊32'49	-2.8m	
min. Earth dist.	-11477 Feb 16 j 10:37	0°♊53'04	0.39187 AU	
	-11477 Feb 19 j 18:07	30°℞♉		
direct	-11477 Mar 16 j 19:30	26°♉14'36		
	-11477 Apr 10 j 06:55	0°♊		
desc. node	-11477 May 19 j 11:14	17°♊08'29		
	-11477 Jun 10 j 15:35	0°♋		
	-11477 Jul 27 j 06:43	0°♌		
	-11477 Sep 10 j 00:43	0°♍		
	-11477 Oct 24 j 23:47	0°♎		
	-11477 Dec 09 j 19:44	0°♏		
	-11476 Jan 25 j 11:34	0°♐		
evening set	-11476 Jan 29 j 05:02	2°♐23'00		
max. Earth dist.	-11476 Mar 12 j 09:47	29°♐59'04	2.66297 AU	
	-11476 Mar 12 j 10:23	0°♑		
conjunction	-11476 Mar 17 j 10:05	3°♑11'40	-0°34'22	
minimum elong	-11476 Mar 17 j 11:20	3°♑13'40	0°35'00	
	-11476 Apr 27 j 23:10	0°♒		
morning rise	-11476 May 03 j 06:35	3°♒27'31		
asc. node	-11476 May 15 j 23:46	11°♒46'45		
	-11476 Jun 12 j 12:34	0°♓		
	-11476 Jul 26 j 21:48	0°♈		
	-11476 Sep 08 j 07:21	0°♉		
	-11476 Oct 21 j 05:14	0°♊		
	-11476 Dec 03 j 18:38	0°♋		
	-11475 Jan 20 j 11:22	0°♌		
retrograde	-11475 Mar 26 j 02:17	22°♌06'49		
desc. node	-11475 Apr 05 j 13:59	21°♌20'44		
min. Earth dist.	-11475 Apr 22 j 13:06	17°♌15'44	0.42747 AU	
opposition	-11475 Apr 29 j 21:57	14°♌55'45	-1°42'49	
greatest brilliancy	-11475 Apr 29 j 09:15	15°♌05'50	-2.6m	
direct	-11475 May 31 j 13:01	8°♌56'54		
	-11475 Aug 06 j 20:34	0°♍		
	-11475 Sep 29 j 11:45	0°♎		
	-11475 Nov 17 j 21:47	0°♏		
	-11474 Jan 05 j 07:08	0°♐		
	-11474 Feb 21 j 23:29	0°♑		
evening set	-11474 Mar 08 j 14:59	9°♑20'36		
asc. node	-11474 Apr 02 j 18:34	25°♑34'57		
max. Earth dist.	-11474 Apr 06 j 19:48	28°♑13'33	2.62409 AU	
	-11474 Apr 09 j 12:54	0°♒		

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11474 Apr 25 j 22:03	10°♒47'36	0°14'06
minimum elong	-11474 Apr 25 j 21:28	10°♒46'39	0°13'35
behind sun begin	-11474 Apr 25 j 10:46	10°♒28'55	
behind sun end	-11474 Apr 26 j 08:11	11°♒04'24	
	-11474 May 24 j 12:11	0°♓	
morning rise	-11474 Jun 12 j 20:57	13°♓18'08	
	-11474 Jul 06 j 16:38	0°♈	
	-11474 Aug 17 j 06:18	0°♉	
	-11474 Sep 26 j 15:47	0°♊	
	-11474 Nov 05 j 13:32	0°♋	
	-11474 Dec 15 j 23:37	0°♌	
	-11473 Jan 27 j 14:25	0°♍	
desc. node	-11473 Feb 21 j 14:07	16°♍04'25	
	-11473 Mar 18 j 01:21	0°♎	
retrograde	-11473 May 15 j 14:17	18°♎04'25	
min. Earth dist.	-11473 Jun 16 j 11:44	11°♎14'20	0.54821 AU
greatest brilliancy	-11473 Jun 22 j 02:27	9°♎05'41	-1.9m
opposition	-11473 Jun 23 j 08:35	8°♎36'47	-5°19'01
direct	-11473 Jul 28 j 20:57	0°♎41'14	
	-11473 Oct 22 j 13:47	0°♏	
	-11473 Dec 15 j 02:39	0°♐	
	-11472 Feb 02 j 17:08	0°♑	
asc. node	-11472 Feb 18 j 18:05	10°♑01'56	
	-11472 Mar 20 j 22:08	0°♒	
evening set	-11472 Apr 17 j 23:15	18°♒33'00	
	-11472 May 04 j 20:15	0°♓	
max. Earth dist.	-11472 May 06 j 13:14	1°♓10'17	2.53587 AU
conjunction	-11472 Jun 07 j 22:49	23°♓51'03	1°00'03
minimum elong	-11472 Jun 07 j 20:55	23°♓47'39	0°59'56
	-11472 Jun 16 j 12:40	0°♈	
	-11472 Jul 27 j 07:05	0°♉	
morning rise	-11472 Jul 30 j 22:10	2°♉43'35	
	-11472 Sep 04 j 17:08	0°♊	
	-11472 Oct 13 j 12:48	0°♋	
	-11472 Nov 21 j 15:07	0°♌	
	-11472 Dec 31 j 23:56	0°♍	
desc. node	-11471 Jan 08 j 09:28	5°♍19'55	
	-11471 Feb 12 j 22:49	0°♎	
	-11471 Apr 02 j 03:58	0°♏	
retrograde	-11471 Jun 22 j 15:02	28°♏59'41	
min. Earth dist.	-11471 Jul 29 j 04:44	20°♏24'06	0.63616 AU
opposition	-11471 Aug 01 j 12:27	19°♏04'00	-4°56'38
greatest brilliancy	-11471 Jul 31 j 23:46	19°♏16'44	-1.5m
direct	-11471 Sep 08 j 22:28	9°♏56'47	
	-11471 Nov 16 j 04:55	0°♐	
asc. node	-11470 Jan 05 j 22:00	26°♐57'11	
	-11470 Jan 11 j 04:24	0°♑	
	-11470 Mar 01 j 07:51	0°♒	
	-11470 Apr 15 j 19:40	0°♓	
	-11470 May 28 j 11:23	0°♈	
evening set	-11470 Jun 05 j 10:17	5°♈47'12	
max. Earth dist.	-11470 Jun 26 j 19:45	21°♈37'55	2.41790 AU
	-11470 Jul 07 j 22:14	0°♉	
conjunction	-11470 Aug 01 j 14:15	18°♉53'26	1°08'55
minimum elong	-11470 Aug 01 j 16:04	18°♉56'57	1°09'21
	-11470 Aug 15 j 21:56	0°♊	
	-11470 Sep 23 j 06:55	0°♋	
morning rise	-11470 Oct 02 j 23:03	7°♋33'12	
	-11470 Oct 31 j 22:36	0°♌	
desc. node	-11470 Nov 26 j 01:56	19°♌05'26	
	-11470 Dec 10 j 17:43	0°♍	
	-11469 Jan 21 j 12:13	0°♎	
	-11469 Mar 07 j 04:11	0°♏	
	-11469 Apr 25 j 13:53	0°♐	
	-11469 Jun 30 j 22:04	0°♑	
retrograde	-11469 Jul 27 j 23:52	4°♑06'45	
	-11469 Aug 21 j 20:22	30°℞♐	
opposition	-11469 Sep 05 j 14:10	24°♐29'21	-2°59'24
greatest brilliancy	-11469 Sep 05 j 15:56	24°♐27'34	-1.4m
min. Earth dist.	-11469 Sep 06 j 00:57	24°♐18'29	0.66502 AU
direct	-11469 Oct 15 j 19:10	14°♐42'18	
asc. node	-11469 Nov 24 j 03:30	22°♐36'53	
	-11469 Dec 12 j 10:13	0°♑	
	-11468 Feb 07 j 00:18	0°♒	
	-11468 Mar 25 j 11:48	0°♓	
	-11468 May 07 j 18:14	0°♈	
	-11468 Jun 17 j 07:59	0°♉	
	-11468 Jul 26 j 06:26	0°♊	
evening set	-11468 Aug 03 j 20:26	6°♊42'32	
	-11468 Sep 02 j 13:23	0°♋	
conjunction	-11468 Oct 05 j 14:55	25°♋44'41	0°05'33
minimum elong	-11468 Oct 05 j 15:29	25°♋45'46	0°06'08
behind sun begin	-11468 Oct 04 j 14:12	24°♋56'59	
behind sun end	-11468 Oct 06 j 16:46	26°♋34'31	
	-11468 Oct 11 j 03:33	0°♌	
desc. node	-11468 Oct 12 j 20:33	1°♌18'43	
max. Earth dist.	-11468 Nov 18 j 01:45	28°♌39'51	2.42171 AU
	-11468 Nov 19 j 21:01	0°♍	
morning rise	-11468 Dec 07 j 20:29	13°♍10'00	
	-11468 Dec 31 j 10:05	0°♎	
	-11467 Feb 13 j 06:14	0°♏	
	-11467 Mar 31 j 19:32	0°♐	
	-11467 May 21 j 05:31	0°♑	
	-11467 Jul 22 j 02:33	0°♒	
retrograde	-11467 Sep 01 j 16:35	8°♒44'09	
opposition	-11467 Oct 09 j 22:45	29°♑50'46	-0°03'29
	-11467 Oct 09 j 13:21	30°℞♑	
greatest brilliancy	-11467 Oct 09 j 23:06	29°♑50'25	-1.5m
asc. node	-11467 Oct 11 j 07:43	29°♑18'19	
min. Earth dist.	-11467 Oct 14 j 01:45	28°♑13'25	0.63219 AU
direct	-11467 Nov 19 j 16:59	19°♑52'51	
	-11466 Jan 02 j 22:49	0°♒	
	-11466 Mar 01 j 09:03	0°♓	
	-11466 Apr 16 j 01:23	0°♈	
	-11466 May 27 j 12:46	0°♉	
	-11466 Jul 05 j 21:56	0°♊	
	-11466 Aug 13 j 12:33	0°♋	
desc. node	-11466 Aug 30 j 19:14	13°♋23'52	
	-11466 Sep 21 j 09:50	0°♌	
evening set	-11466 Oct 07 j 18:10	12°♌23'26	
	-11466 Oct 31 j 10:07	0°♍	
conjunction	-11466 Dec 05 j 02:54	25°♍02'02	-1°00'18
minimum elong	-11466 Dec 05 j 00:28	24°♍57'44	1°00'10
	-11466 Dec 12 j 04:02	0°♎	
max. Earth dist.	-11465 Jan 08 j 04:47	18°♎41'25	2.54252 AU
	-11465 Jan 24 j 22:46	0°♏	
morning rise	-11465 Jan 29 j 10:44	3°♏00'20	
	-11465 Mar 11 j 17:57	0°♐	
	-11465 Apr 28 j 11:15	0°♑	
	-11465 Jun 17 j 15:04	0°♒	
	-11465 Aug 13 j 02:51	0°♓	
asc. node	-11465 Aug 29 j 07:58	7°♓01'55	
retrograde	-11465 Oct 15 j 09:53	17°♓53'42	
opposition	-11465 Nov 20 j 03:58	10°♓14'29	3°43'26
greatest brilliancy	-11465 Nov 21 j 00:59	9°♓55'10	-1.9m
min. Earth dist.	-11465 Nov 27 j 11:19	7°♓33'52	0.54229 AU
direct	-11465 Dec 29 j 12:59	0°♓58'30	
	-11464 Mar 17 j 08:45	0°♈	
	-11464 May 02 j 01:25	0°♉	
	-11464 Jun 12 j 05:42	0°♊	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

desc. node	-11464 Jul 17 j 21:10	26°♊53'30	
	-11464 Jul 21 j 23:34	0°♋	
	-11464 Aug 30 j 18:47	0°♌	
	-11464 Oct 10 j 13:56	0°♍	
	-11464 Nov 21 j 23:13	0°♎	
evening set	-11464 Nov 30 j 02:34	5°♎37'04	
	-11463 Jan 05 j 03:41	0°♏	
conjunction	-11463 Jan 21 j 05:25	10°♏38'12	-1°13'56
minimum elong	-11463 Jan 21 j 05:58	10°♏39'07	1°14'18
max. Earth dist.	-11463 Feb 06 j 14:30	21°♏21'13	2.62881 AU
	-11463 Feb 19 j 22:35	0°♐	
morning rise	-11463 Mar 11 j 22:30	12°♐51'27	
	-11463 Apr 07 j 20:17	0°♑	
	-11463 May 25 j 09:58	0°♒	
	-11463 Jul 12 j 16:23	0°♓	
asc. node	-11463 Jul 16 j 02:42	2°♓06'08	
	-11463 Aug 31 j 22:56	0°♈	
	-11463 Oct 30 j 08:08	0°♉	
retrograde	-11463 Dec 14 j 04:32	10°♉15'01	
opposition	-11462 Jan 15 j 00:48	4°♉31'01	6°56'27
greatest brilliancy	-11462 Jan 16 j 15:58	4°♉01'28	-2.5m
min. Earth dist.	-11462 Jan 21 j 21:06	2°♉27'34	0.42366 AU
	-11462 Jan 31 j 02:28	30°℞♈	
direct	-11462 Feb 18 j 10:50	27°♈47'34	
	-11462 Mar 08 j 16:25	0°♉	
	-11462 May 11 j 05:03	0°♊	
desc. node	-11462 Jun 05 j 02:23	16°♊08'14	
	-11462 Jun 25 j 10:24	0°♋	
	-11462 Aug 07 j 06:31	0°♌	
	-11462 Sep 19 j 03:25	0°♍	
	-11462 Nov 01 j 23:54	0°♎	
	-11462 Dec 17 j 03:53	0°♏	
evening set	-11461 Jan 13 j 11:41	17°♏46'39	
	-11461 Feb 01 j 10:50	0°♐	
conjunction	-11461 Mar 03 j 06:41	19°♐07'01	-0°49'56
minimum elong	-11461 Mar 03 j 08:14	19°♐09'29	0°50'31
max. Earth dist.	-11461 Mar 04 j 02:35	19°♐38'50	2.66386 AU
	-11461 Mar 20 j 06:50	0°♑	
morning rise	-11461 Apr 19 j 10:16	19°♑20'14	
	-11461 May 05 j 23:04	0°♒	
asc. node	-11461 Jun 02 j 18:30	18°♒04'12	
	-11461 Jun 20 j 23:18	0°♓	
	-11461 Aug 05 j 05:18	0°♈	
	-11461 Sep 19 j 01:20	0°♉	
	-11461 Nov 03 j 09:36	0°♊	
	-11461 Dec 22 j 05:48	0°♋	
retrograde	-11460 Feb 29 j 11:21	23°♋59'32	
min. Earth dist.	-11460 Mar 28 j 12:59	19°♋19'36	0.39322 AU
opposition	-11460 Apr 01 j 20:46	18°♋05'49	1°34'58
greatest brilliancy	-11460 Apr 01 j 16:31	18°♋08'51	-2.9m
desc. node	-11460 Apr 22 j 08:09	13°♋29'00	
direct	-11460 May 02 j 08:42	12°♋49'42	
	-11460 Jun 29 j 19:59	0°♌	
	-11460 Aug 22 j 06:52	0°♍	
	-11460 Oct 09 j 14:06	0°♎	
	-11460 Nov 26 j 02:17	0°♏	
	-11459 Jan 12 j 14:51	0°♐	
evening set	-11459 Feb 21 j 08:47	25°♐10'46	
	-11459 Feb 28 j 22:19	0°♑	
max. Earth dist.	-11459 Mar 27 j 14:49	17°♑07'42	2.64548 AU
conjunction	-11459 Apr 10 j 08:43	26°♑02'31	-0°05'33
minimum elong	-11459 Apr 10 j 08:57	26°♑02'54	0°06'09
behind sun begin	-11459 Apr 09 j 14:28	25°♑32'50	
behind sun end	-11459 Apr 11 j 03:26	26°♑32'59	
	-11459 Apr 16 j 10:18	0°♒	
asc. node	-11459 Apr 19 j 11:21	1°♒59'34	
morning rise	-11459 May 27 j 12:27	27°♒16'04	
	-11459 May 31 j 13:34	0°♓	
	-11459 Jul 14 j 02:55	0°♈	
	-11459 Aug 25 j 05:32	0°♉	
	-11459 Oct 05 j 07:35	0°♊	
	-11459 Nov 15 j 01:51	0°♋	
	-11459 Dec 26 j 18:09	0°♌	
	-11458 Feb 10 j 05:18	0°♍	
desc. node	-11458 Mar 10 j 08:55	15°♍26'39	
retrograde	-11458 Apr 27 j 21:44	28°♍52'40	
min. Earth dist.	-11458 May 27 j 17:37	22°♍52'18	0.50114 AU
greatest brilliancy	-11458 Jun 03 j 05:56	20°♍30'30	-2.1m
opposition	-11458 Jun 04 j 13:10	20°♍01'58	-4°37'23
direct	-11458 Jul 08 j 15:35	12°♍46'52	
	-11458 Sep 07 j 05:26	0°♎	
	-11458 Nov 02 j 17:48	0°♏	
	-11458 Dec 23 j 10:57	0°♐	
	-11457 Feb 10 j 02:13	0°♑	
asc. node	-11457 Mar 07 j 09:05	16°♑02'02	
	-11457 Mar 28 j 23:19	0°♒	
evening set	-11457 Apr 02 j 09:09	2°♒53'14	
max. Earth dist.	-11457 Apr 24 j 13:48	17°♒36'25	2.57570 AU
	-11457 May 12 j 20:53	0°♓	
conjunction	-11457 May 21 j 22:46	6°♓14'24	0°44'08
minimum elong	-11457 May 21 j 21:03	6°♓11'26	0°43'48
	-11457 Jun 24 j 17:04	0°♈	
morning rise	-11457 Jul 11 j 08:26	12°♈01'36	
	-11457 Aug 04 j 17:33	0°♉	
	-11457 Sep 13 j 10:47	0°♊	
	-11457 Oct 22 j 13:53	0°♋	
	-11457 Dec 01 j 00:19	0°♌	
	-11456 Jan 10 j 21:15	0°♍	
desc. node	-11456 Jan 26 j 04:40	10°♍45'36	
	-11456 Feb 23 j 23:55	0°♎	
	-11456 Apr 16 j 21:27	0°♏	
retrograde	-11456 Jun 08 j 05:21	14°♏19'04	
min. Earth dist.	-11456 Jul 13 j 02:37	6°♏20'33	0.60835 AU
opposition	-11456 Jul 17 j 21:33	4°♏26'18	-5°20'51
greatest brilliancy	-11456 Jul 17 j 01:18	4°♏46'26	-1.6m
	-11456 Jul 29 j 21:40	30°℞♎	
direct	-11456 Aug 24 j 07:27	25°♎42'36	
	-11456 Sep 21 j 05:25	0°♏	
	-11456 Nov 28 j 07:43	0°♐	
	-11455 Jan 19 j 17:10	0°♑	
asc. node	-11455 Jan 22 j 11:41	1°♑40'13	
	-11455 Mar 08 j 21:06	0°♒	
	-11455 Apr 23 j 01:47	0°♓	
evening set	-11455 May 16 j 08:17	16°♓10'08	
max. Earth dist.	-11455 Jun 01 j 19:32	27°♓54'34	2.46453 AU
	-11455 Jun 04 j 17:03	0°♈	
conjunction	-11455 Jul 09 j 15:42	25°♈46'45	1°13'12
minimum elong	-11455 Jul 09 j 15:22	25°♈46'07	1°13'26
	-11455 Jul 15 j 06:09	0°♉	
	-11455 Aug 23 j 09:05	0°♊	
morning rise	-11455 Sep 06 j 05:32	10°♊46'28	
	-11455 Sep 30 j 21:06	0°♋	
	-11455 Nov 08 j 15:20	0°♌	
desc. node	-11455 Dec 12 j 22:27	25°♌51'06	
	-11455 Dec 18 j 13:24	0°♍	
	-11454 Jan 29 j 13:58	0°♎	
	-11454 Mar 16 j 00:10	0°♏	
	-11454 May 07 j 08:57	0°♐	
retrograde	-11454 Jul 14 j 08:54	20°♐57'10	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

min. Earth dist.	-11454 Aug 22 j 04:35	11°♐34'00	0.66114 AU
opposition	-11454 Aug 23 j 05:17	11°♐09'04	-3°52'36
greatest brilliancy	-11454 Aug 23 j 02:42	11°♐11'41	-1.4m
direct	-11454 Oct 01 j 20:54	1°♐34'27	
asc. node	-11454 Dec 10 j 17:06	22°♐25'18	
	-11454 Dec 25 j 17:29	0°♑	
	-11453 Feb 15 j 23:11	0°♒	
	-11453 Apr 03 j 09:44	0°♓	
	-11453 May 16 j 08:26	0°♈	
	-11453 Jun 25 j 20:01	0°♉	
evening set	-11453 Jul 10 j 21:47	11°♉30'48	
	-11453 Aug 03 j 18:14	0°♊	
conjunction	-11453 Sep 10 j 09:49	29°♊29'54	0°36'56
minimum elong	-11453 Sep 10 j 12:49	29°♊35'48	0°37'32
	-11453 Sep 11 j 01:10	0°♋	
max. Earth dist.	-11453 Sep 29 j 23:31	14°♋47'34	2.38555 AU
	-11453 Oct 19 j 14:54	0°♌	
desc. node	-11453 Oct 30 j 15:38	8°♌26'45	
morning rise	-11453 Nov 14 j 04:43	19°♌27'38	
	-11453 Nov 28 j 07:44	0°♍	
	-11452 Jan 08 j 20:52	0°♎	
	-11452 Feb 21 j 20:55	0°♏	
	-11452 Apr 09 j 01:54	0°♐	
	-11452 May 31 j 23:59	0°♑	
retrograde	-11452 Aug 17 j 22:46	25°♑12'40	
opposition	-11452 Sep 25 j 20:46	15°♑58'55	-1°18'07
greatest brilliancy	-11452 Sep 26 j 00:17	15°♑55'25	-1.4m
min. Earth dist.	-11452 Sep 28 j 13:34	14°♑54'23	0.65245 AU
asc. node	-11452 Oct 27 j 22:34	6°♑30'31	
direct	-11452 Nov 05 j 14:16	6°♑00'58	
	-11451 Jan 19 j 05:12	0°♒	
	-11451 Mar 11 j 08:04	0°♓	
	-11451 Apr 24 j 16:40	0°♈	
	-11451 Jun 04 j 16:15	0°♉	
	-11451 Jul 13 j 19:22	0°♊	
	-11451 Aug 21 j 05:24	0°♋	
evening set	-11451 Sep 13 j 05:36	17°♋54'10	
desc. node	-11451 Sep 16 j 12:02	20°♋25'50	
	-11451 Sep 28 j 22:26	0°♌	
	-11451 Nov 07 j 18:42	0°♍	
conjunction	-11451 Nov 13 j 05:26	4°♍00'35	-0°40'35
minimum elong	-11451 Nov 13 j 02:48	3°♍55'44	0°40'15
	-11451 Dec 19 j 09:14	0°♎	
max. Earth dist.	-11451 Dec 23 j 21:05	3°♎09'14	2.49725 AU
morning rise	-11450 Jan 10 j 15:26	15°♎27'35	
	-11450 Feb 01 j 02:40	0°♏	
	-11450 Mar 19 j 01:31	0°♐	
	-11450 May 06 j 10:53	0°♑	
	-11450 Jun 27 j 20:01	0°♒	
	-11450 Sep 08 j 23:52	0°♓	
asc. node	-11450 Sep 15 j 00:10	1°♓00'51	
retrograde	-11450 Sep 27 j 01:35	1°♓52'44	
	-11450 Oct 14 j 00:48	30°℞♒	
opposition	-11450 Nov 02 j 23:21	23°♒39'37	2°10'12
greatest brilliancy	-11450 Nov 03 j 09:41	23°♒29'47	-1.7m
min. Earth dist.	-11450 Nov 09 j 03:35	21°♒18'39	0.58382 AU
direct	-11450 Dec 13 j 05:13	13°♒57'32	
	-11449 Feb 07 j 12:36	0°♓	
	-11449 Mar 31 j 01:07	0°♈	
	-11449 May 13 j 04:52	0°♉	
	-11449 Jun 22 j 09:03	0°♊	
	-11449 Jul 31 j 12:05	0°♋	
desc. node	-11449 Aug 04 j 14:18	3°♋08'37	
	-11449 Sep 08 j 19:31	0°♌	
	-11449 Oct 19 j 04:43	0°♍	
evening set	-11449 Nov 11 j 10:42	16°♍45'07	
	-11449 Nov 30 j 05:49	0°♎	
conjunction	-11448 Jan 04 j 17:10	24°♎18'38	-1°14'14
minimum elong	-11448 Jan 04 j 16:36	24°♎17'42	1°14'28
	-11448 Jan 13 j 04:42	0°♏	
max. Earth dist.	-11448 Jan 27 j 19:40	9°♏42'52	2.60076 AU
morning rise	-11448 Feb 25 j 05:25	28°♏16'02	
	-11448 Feb 27 j 21:48	0°♐	
	-11448 Apr 15 j 00:11	0°♑	
	-11448 Jun 02 j 06:15	0°♒	
	-11448 Jul 22 j 07:49	0°♓	
asc. node	-11448 Aug 01 j 20:36	6°♓02'40	
	-11448 Sep 16 j 10:00	0°♈	
retrograde	-11448 Nov 17 j 13:55	17°♈37'07	
opposition	-11448 Dec 21 j 03:14	11°♈04'49	6°04'23
greatest brilliancy	-11448 Dec 22 j 17:19	10°♈33'11	-2.3m
min. Earth dist.	-11448 Dec 29 j 04:48	8°♈24'58	0.46915 AU
direct	-11447 Jan 27 j 00:49	3°♈06'59	
	-11447 Apr 10 j 07:29	0°♉	
	-11447 May 25 j 22:41	0°♊	
desc. node	-11447 Jun 21 j 18:46	19°♊08'28	
	-11447 Jul 06 j 17:33	0°♋	
	-11447 Aug 16 j 20:15	0°♌	
	-11447 Sep 27 j 14:39	0°♍	
	-11447 Nov 09 j 17:00	0°♎	
	-11447 Dec 24 j 09:01	0°♏	
evening set	-11447 Dec 28 j 01:24	2°♏25'48	
	-11446 Feb 08 j 09:17	0°♐	
conjunction	-11446 Feb 15 j 20:08	4°♐47'57	-1°02'26
minimum elong	-11446 Feb 15 j 21:37	4°♐50'21	1°02'59
max. Earth dist.	-11446 Feb 22 j 13:44	9°♐07'37	2.65639 AU
	-11446 Mar 27 j 04:15	0°♑	
morning rise	-11446 Apr 04 j 16:23	5°♑26'04	
	-11446 May 13 j 02:12	0°♒	
asc. node	-11446 Jun 19 j 12:51	24°♒04'02	
	-11446 Jun 28 j 17:37	0°♓	
	-11446 Aug 14 j 05:42	0°♈	
	-11446 Sep 30 j 11:29	0°♉	
	-11446 Nov 20 j 10:43	0°♊	
retrograde	-11445 Jan 31 j 00:11	23°♊55'03	
opposition	-11445 Mar 02 j 18:43	18°♊45'18	5°01'03
greatest brilliancy	-11445 Mar 03 j 02:17	18°♊40'15	-2.9m
min. Earth dist.	-11445 Mar 03 j 09:13	18°♊35'37	0.38420 AU
direct	-11445 Apr 02 j 10:54	13°♊34'44	
desc. node	-11445 May 09 j 23:25	21°♊44'04	
	-11445 May 28 j 07:24	0°♋	
	-11445 Jul 19 j 05:14	0°♌	
	-11445 Sep 03 j 17:41	0°♍	
	-11445 Oct 19 j 13:27	0°♎	
	-11445 Dec 04 j 20:45	0°♏	
	-11444 Jan 20 j 18:26	0°♐	
evening set	-11444 Feb 07 j 02:03	11°♐01'48	
	-11444 Mar 07 j 19:40	0°♑	
max. Earth dist.	-11444 Mar 18 j 00:06	6°♑31'28	2.65892 AU
conjunction	-11444 Mar 26 j 03:18	11°♑44'56	-0°24'16
minimum elong	-11444 Mar 26 j 04:14	11°♑46'27	0°24'52
	-11444 Apr 23 j 07:54	0°♒	
asc. node	-11444 May 06 j 05:27	8°♒26'19	
morning rise	-11444 May 11 j 23:39	12°♒13'36	
	-11444 Jun 07 j 17:25	0°♓	
	-11444 Jul 21 j 19:01	0°♈	
	-11444 Sep 02 j 15:52	0°♉	
	-11444 Oct 14 j 18:40	0°♊	
	-11444 Nov 25 j 23:31	0°♋	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11443 Jan 09 j 07:06	0°♌	
	-11443 Mar 06 j 07:02	0°♍	
desc. node	-11443 Mar 27 j 02:30	5°♍43'57	
retrograde	-11443 Apr 07 j 21:31	6°♍41'10	
min. Earth dist.	-11443 May 05 j 21:02	1°♍29'27	0.45228 AU
	-11443 May 10 j 08:37	30°℞♌	
opposition	-11443 May 13 j 20:24	28°♌49'14	-3°05'09
greatest brilliancy	-11443 May 12 j 21:24	29°♌08'37	-2.4m
direct	-11443 Jun 15 j 09:46	22°♌22'19	
	-11443 Jul 22 j 15:37	0°♍	
	-11443 Sep 22 j 02:52	0°♎	
	-11443 Nov 12 j 05:23	0°♏	
	-11443 Dec 31 j 06:44	0°♐	
	-11442 Feb 17 j 06:12	0°♑	
evening set	-11442 Mar 17 j 12:34	18°♑03'05	
asc. node	-11442 Mar 24 j 01:22	22°♑16'28	
	-11442 Apr 04 j 22:13	0°♒	
max. Earth dist.	-11442 Apr 13 j 00:35	5°♒19'02	2.60873 AU
conjunction	-11442 May 05 j 03:59	20°♒02'47	0°25'26
minimum elong	-11442 May 05 j 02:57	20°♒01'02	0°24'58
	-11442 May 19 j 20:51	0°♓	
morning rise	-11442 Jun 22 j 19:34	23°♓32'25	
	-11442 Jul 01 j 22:26	0°♈	
	-11442 Aug 12 j 07:08	0°♉	
	-11442 Sep 21 j 10:21	0°♊	
	-11442 Oct 31 j 00:24	0°♋	
	-11442 Dec 09 j 23:43	0°♌	
	-11441 Jan 20 j 17:54	0°♍	
desc. node	-11441 Feb 12 j 00:41	14°♍58'54	
	-11441 Mar 08 j 05:42	0°♎	
retrograde	-11441 May 24 j 21:39	28°♎21'09	
min. Earth dist.	-11441 Jun 26 j 21:47	21°♎05'25	0.57168 AU
greatest brilliancy	-11441 Jul 01 j 22:54	19°♎07'37	-1.8m
opposition	-11441 Jul 03 j 02:13	18°♎40'59	-5°26'58
direct	-11441 Aug 08 j 07:41	10°♎26'36	
	-11441 Oct 13 j 21:04	0°♏	
	-11441 Dec 09 j 05:54	0°♐	
	-11440 Jan 28 j 15:59	0°♑	
asc. node	-11440 Feb 09 j 02:39	7°♑04'34	
	-11440 Mar 16 j 04:38	0°♒	
evening set	-11440 Apr 27 j 21:18	28°♒24'25	
	-11440 Apr 30 j 05:14	0°♓	
max. Earth dist.	-11440 May 14 j 22:58	10°♓10'58	2.51137 AU
	-11440 Jun 11 j 21:34	0°♈	
conjunction	-11440 Jun 18 j 21:37	5°♈04'15	1°06'58
minimum elong	-11440 Jun 18 j 19:58	5°♈01'14	1°06'59
	-11440 Jul 22 j 14:02	0°♉	
morning rise	-11440 Aug 12 j 16:53	16°♉01'24	
	-11440 Aug 30 j 21:17	0°♊	
	-11440 Oct 08 j 13:41	0°♋	
	-11440 Nov 16 j 12:06	0°♌	
	-11440 Dec 26 j 15:35	0°♍	
desc. node	-11440 Dec 29 j 17:45	2°♍15'04	
	-11439 Feb 07 j 03:13	0°♎	
	-11439 Mar 25 j 22:10	0°♏	
	-11439 May 24 j 20:51	0°♐	
retrograde	-11439 Jun 30 j 15:49	7°♐26'46	
	-11439 Aug 03 j 10:41	30°℞♏	
min. Earth dist.	-11439 Aug 07 j 01:57	28°♏33'07	0.64779 AU
opposition	-11439 Aug 09 j 14:18	27°♏32'19	-4°36'23
greatest brilliancy	-11439 Aug 09 j 05:35	27°♏41'06	-1.4m
direct	-11439 Sep 17 j 12:09	18°♏14'13	
	-11439 Nov 06 j 01:54	0°♐	
asc. node	-11439 Dec 27 j 07:04	25°♐03'24	
	-11438 Jan 05 j 03:39	0°♑	
	-11438 Feb 24 j 04:51	0°♒	
	-11438 Apr 11 j 00:19	0°♓	
	-11438 May 23 j 18:59	0°♈	
evening set	-11438 Jun 17 j 15:04	18°♈14'28	
	-11438 Jul 03 j 06:21	0°♉	
max. Earth dist.	-11438 Jul 19 j 01:08	12°♉02'48	2.39633 AU
	-11438 Aug 11 j 05:33	0°♊	
conjunction	-11438 Aug 15 j 11:25	3°♊18'35	1°00'51
minimum elong	-11438 Aug 15 j 14:19	3°♊24'15	1°01'23
	-11438 Sep 18 j 13:26	0°♋	
morning rise	-11438 Oct 18 j 10:08	23°♋16'09	
	-11438 Oct 27 j 03:32	0°♌	
desc. node	-11438 Nov 16 j 12:13	15°♌31'35	
	-11438 Dec 05 j 20:39	0°♍	
	-11437 Jan 16 j 11:31	0°♎	
	-11437 Mar 01 j 18:58	0°♏	
	-11437 Apr 19 j 02:19	0°♐	
	-11437 Jun 16 j 07:00	0°♑	
retrograde	-11437 Aug 04 j 22:05	12°♑04'14	
opposition	-11437 Sep 13 j 07:48	2°♑34'09	-2°24'29
greatest brilliancy	-11437 Sep 13 j 10:57	2°♑30'59	-1.4m
min. Earth dist.	-11437 Sep 14 j 13:39	2°♑04'11	0.66325 AU
	-11437 Sep 19 j 19:10	30°℞♐	
direct	-11437 Oct 23 j 18:51	22°♐41'59	
asc. node	-11437 Nov 14 j 12:21	25°♐22'24	
	-11437 Nov 30 j 06:59	0°♑	
	-11436 Jan 31 j 16:07	0°♒	
	-11436 Mar 20 j 03:48	0°♓	
	-11436 May 02 j 18:48	0°♈	
	-11436 Jun 12 j 12:00	0°♉	
	-11436 Jul 21 j 12:10	0°♊	
evening set	-11436 Aug 18 j 09:23	21°♊49'02	
	-11436 Aug 28 j 20:02	0°♋	
desc. node	-11436 Oct 03 j 07:54	27°♋36'23	
	-11436 Oct 06 j 10:34	0°♌	
conjunction	-11436 Oct 20 j 00:39	10°♌22'57	-0°12'37
minimum elong	-11436 Oct 19 j 23:36	10°♌20'57	0°12'04
behind sun begin	-11436 Oct 19 j 05:42	9°♌46'58	
behind sun end	-11436 Oct 20 j 17:30	10°♌54'55	
	-11436 Nov 15 j 04:08	0°♍	
max. Earth dist.	-11436 Dec 03 j 10:15	13°♍22'30	2.44801 AU
morning rise	-11436 Dec 20 j 17:31	25°♍47'14	
	-11436 Dec 26 j 16:26	0°♎	
	-11435 Feb 08 j 09:57	0°♏	
	-11435 Mar 26 j 15:34	0°♐	
	-11435 May 15 j 02:11	0°♑	
	-11435 Jul 10 j 16:59	0°♒	
retrograde	-11435 Sep 10 j 13:14	17°♒10'47	
asc. node	-11435 Oct 01 j 15:44	14°♒16'06	
opposition	-11435 Oct 18 j 09:21	8°♒30'12	0°43'17
greatest brilliancy	-11435 Oct 18 j 12:03	8°♒27'35	-1.6m
min. Earth dist.	-11435 Oct 23 j 06:18	6°♒36'17	0.61738 AU
	-11435 Nov 13 j 14:19	30°℞♑	
direct	-11435 Nov 28 j 01:40	28°♑35'17	
	-11435 Dec 13 j 07:32	0°♒	
	-11434 Feb 22 j 04:59	0°♓	
	-11434 Apr 10 j 06:26	0°♈	
	-11434 May 22 j 05:06	0°♉	
	-11434 Jun 30 j 19:51	0°♊	
	-11434 Aug 08 j 14:02	0°♋	
desc. node	-11434 Aug 21 j 06:38	9°♋49'15	
	-11434 Sep 16 j 13:57	0°♌	
evening set	-11434 Oct 20 j 20:46	25°♌43'02	
	-11434 Oct 26 j 16:26	0°♍	
	-11434 Dec 07 j 11:51	0°♎	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

conjunction	-11434 Dec 16 j 16:53	6°♎25'34	-1°07'39
minimum elong	-11434 Dec 16 j 15:03	6°♎22'23	1°07'39
max. Earth dist.	-11433 Jan 15 j 21:17	27°♎02'51	2.56510 AU
	-11433 Jan 20 j 06:52	0°♏	
morning rise	-11433 Feb 08 j 12:41	12°♏46'31	
	-11433 Mar 06 j 23:55	0°♐	
	-11433 Apr 23 j 09:58	0°♑	
	-11433 Jun 11 j 16:36	0°♒	
	-11433 Aug 03 j 21:33	0°♓	
asc. node	-11433 Aug 19 j 14:14	7°♓54'10	
retrograde	-11433 Oct 26 j 20:34	28°♓14'09	
opposition	-11433 Nov 30 j 22:14	20°♓56'28	4°37'09
greatest brilliancy	-11433 Dec 02 j 01:57	20°♓31'43	-2.0m
min. Earth dist.	-11433 Dec 08 j 17:24	18°♓10'11	0.51726 AU
direct	-11432 Jan 08 j 15:01	12°♓02'19	
	-11432 Mar 07 j 01:00	0°♈	
	-11432 Apr 24 j 23:56	0°♉	
	-11432 Jun 06 j 03:57	0°♊	
desc. node	-11432 Jul 08 j 09:57	23°♊59'30	
	-11432 Jul 16 j 10:15	0°♋	
	-11432 Aug 25 j 13:35	0°♌	
	-11432 Oct 05 j 14:50	0°♍	
	-11432 Nov 17 j 04:30	0°♎	
evening set	-11432 Dec 10 j 15:02	16°♎00'51	
	-11432 Dec 31 j 11:49	0°♏	
conjunction	-11431 Jan 30 j 18:59	19°♏55'36	-1°11'05
minimum elong	-11431 Jan 30 j 20:00	19°♏57'15	1°11'33
max. Earth dist.	-11431 Feb 12 j 13:46	28°♏13'29	2.64088 AU
	-11431 Feb 15 j 07:39	0°♐	
morning rise	-11431 Mar 20 j 17:18	21°♐26'28	
	-11431 Apr 03 j 03:34	0°♑	
	-11431 May 20 j 10:10	0°♒	
asc. node	-11431 Jul 06 j 08:10	29°♒36'06	
	-11431 Jul 06 j 23:24	0°♓	
	-11431 Aug 24 j 11:13	0°♈	
	-11431 Oct 15 j 18:03	0°♉	
retrograde	-11431 Dec 30 j 18:21	25°♉14'54	
opposition	-11430 Jan 30 j 23:30	19°♉52'35	6°49'43
greatest brilliancy	-11430 Feb 01 j 06:54	19°♉30'08	-2.7m
min. Earth dist.	-11430 Feb 05 j 03:21	18°♉24'30	0.40372 AU
direct	-11430 Mar 04 j 19:32	13°♉51'03	
	-11430 Apr 27 j 23:09	0°♊	
desc. node	-11430 May 26 j 15:42	16°♊18'35	
	-11430 Jun 17 j 04:31	0°♋	
	-11430 Jul 31 j 17:36	0°♌	
	-11430 Sep 13 j 11:49	0°♍	
	-11430 Oct 27 j 20:55	0°♎	
	-11430 Dec 12 j 08:23	0°♏	
evening set	-11429 Jan 22 j 13:47	26°♏38'34	
	-11429 Jan 27 j 19:22	0°♐	
max. Earth dist.	-11429 Mar 09 j 15:32	26°♐07'41	2.66440 AU
conjunction	-11429 Mar 12 j 00:06	27°♐38'09	-0°41'13
minimum elong	-11429 Mar 12 j 01:31	27°♐40'25	0°41'50
	-11429 Mar 15 j 16:45	0°♑	
morning rise	-11429 Apr 27 j 22:34	27°♑49'25	
	-11429 May 01 j 07:09	0°♒	
asc. node	-11429 May 24 j 00:21	14°♒48'35	
	-11429 Jun 16 j 01:31	0°♓	
	-11429 Jul 30 j 19:42	0°♈	
	-11429 Sep 12 j 18:54	0°♉	
	-11429 Oct 26 j 14:03	0°♊	
	-11429 Dec 10 j 17:29	0°♋	
	-11428 Feb 01 j 23:15	0°♌	
retrograde	-11428 Mar 15 j 11:54	10°♌42'35	
min. Earth dist.	-11428 Apr 11 j 21:10	6°♌02'06	0.40982 AU
desc. node	-11428 Apr 12 j 18:56	5°♌45'57	
opposition	-11428 Apr 18 j 05:44	4°♌07'17	-0°24'19
greatest brilliancy	-11428 Apr 18 j 03:02	4°♌09'19	-2.8m
	-11428 May 04 j 01:43	30°℞♋	
direct	-11428 May 19 j 05:12	28°♋30'01	
	-11428 Jun 03 j 19:21	0°♌	
	-11428 Aug 13 j 13:46	0°♍	
	-11428 Oct 03 j 08:02	0°♎	
	-11428 Nov 20 j 19:13	0°♏	
	-11427 Jan 07 j 18:28	0°♐	
	-11427 Feb 24 j 06:58	0°♑	
evening set	-11427 Mar 02 j 02:45	3°♑42'45	
max. Earth dist.	-11427 Apr 02 j 11:26	23°♑53'42	2.63472 AU
asc. node	-11427 Apr 09 j 18:43	28°♑39'04	
	-11427 Apr 11 j 20:17	0°♒	
conjunction	-11427 Apr 19 j 05:24	4°♒50'15	0°05'47
minimum elong	-11427 Apr 19 j 05:09	4°♒49'51	0°05'15
behind sun begin	-11427 Apr 18 j 10:08	4°♒18'38	
behind sun end	-11427 Apr 20 j 00:10	5°♒21'05	
	-11427 May 26 j 22:08	0°♓	
morning rise	-11427 Jun 05 j 17:54	6°♓41'29	
	-11427 Jul 09 j 07:19	0°♈	
	-11427 Aug 20 j 03:05	0°♉	
	-11427 Sep 29 j 19:40	0°♊	
	-11427 Nov 09 j 01:25	0°♋	
	-11427 Dec 19 j 21:36	0°♌	
	-11426 Feb 01 j 08:52	0°♍	
desc. node	-11426 Feb 28 j 19:15	16°♍49'44	
	-11426 Mar 26 j 15:46	0°♎	
retrograde	-11426 May 08 j 06:19	10°♎34'22	
min. Earth dist.	-11426 Jun 08 j 05:53	4°♎06'11	0.52770 AU
greatest brilliancy	-11426 Jun 14 j 06:54	1°♎50'18	-2.0m
opposition	-11426 Jun 15 j 14:33	1°♎20'30	-5°06'35
	-11426 Jun 19 j 05:38	30°℞♍	
direct	-11426 Jul 20 j 11:39	23°♍42'08	
	-11426 Aug 23 j 11:21	0°♎	
	-11426 Oct 26 j 20:08	0°♏	
	-11426 Dec 18 j 00:33	0°♐	
	-11425 Feb 05 j 04:58	0°♑	
asc. node	-11425 Feb 25 j 17:07	12°♑54'02	
	-11425 Mar 24 j 07:16	0°♒	
evening set	-11425 Apr 11 j 18:28	12°♒08'53	
max. Earth dist.	-11425 May 01 j 19:13	25°♒35'57	2.55457 AU
	-11425 May 08 j 06:10	0°♓	
conjunction	-11425 Jun 01 j 00:48	16°♓29'07	0°53'43
minimum elong	-11425 May 31 j 22:55	16°♓25'47	0°53'30
	-11425 Jun 20 j 01:25	0°♈	
morning rise	-11425 Jul 22 j 17:43	23°♈51'58	
	-11425 Jul 30 j 23:20	0°♉	
	-11425 Sep 08 j 13:00	0°♊	
	-11425 Oct 17 j 11:57	0°♋	
	-11425 Nov 25 j 16:57	0°♌	
	-11424 Jan 05 j 05:13	0°♍	
desc. node	-11424 Jan 16 j 15:39	8°♍10'21	
	-11424 Feb 17 j 11:56	0°♎	
	-11424 Apr 06 j 23:54	0°♏	
retrograde	-11424 Jun 16 j 14:10	23°♏18'24	
min. Earth dist.	-11424 Jul 22 j 10:27	14°♏59'08	0.62479 AU
opposition	-11424 Jul 26 j 10:34	13°♏22'58	-5°08'47
greatest brilliancy	-11424 Jul 25 j 18:30	13°♏39'02	-1.5m
direct	-11424 Sep 02 j 10:33	4°♏25'43	
	-11424 Nov 20 j 21:30	0°♐	
asc. node	-11423 Jan 12 j 20:11	29°♐12'18	
	-11423 Jan 14 j 04:32	0°♑	
	-11423 Mar 03 j 22:32	0°♒	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11423 Apr 18 j 08:26	0°♓	
evening set	-11423 May 27 j 12:59	27°♓28'11	
	-11423 May 31 j 01:13	0°♈	
max. Earth dist.	-11423 Jun 14 j 11:07	10°♈30'40	2.43824 AU
	-11423 Jul 10 j 13:54	0°♉	
conjunction	-11423 Jul 22 j 08:40	8°♉57'27	1°12'15
minimum elong	-11423 Jul 22 j 09:31	8°♉59'04	1°12'36
	-11423 Aug 18 j 15:29	0°♊	
morning rise	-11423 Sep 21 j 02:57	26°♊07'42	
	-11423 Sep 26 j 01:53	0°♋	
	-11423 Nov 03 j 18:08	0°♌	
desc. node	-11423 Dec 03 j 08:12	22°♌24'54	
	-11423 Dec 13 j 13:26	0°♍	
	-11422 Jan 24 j 08:51	0°♎	
	-11422 Mar 10 j 05:22	0°♏	
	-11422 Apr 29 j 11:37	0°♐	
retrograde	-11422 Jul 22 j 05:15	28°♐59'21	
opposition	-11422 Aug 30 j 23:02	19°♐16'36	-3°22'42
greatest brilliancy	-11422 Aug 30 j 23:05	19°♐16'33	-1.4m
min. Earth dist.	-11422 Aug 30 j 17:35	19°♐22'05	0.66446 AU
direct	-11422 Oct 09 j 22:54	9°♐34'43	
asc. node	-11422 Dec 01 j 01:36	22°♐26'07	
	-11422 Dec 17 j 18:04	0°♑	
	-11421 Feb 10 j 06:24	0°♒	
	-11421 Mar 29 j 08:05	0°♓	
	-11421 May 11 j 12:32	0°♈	
	-11421 Jun 21 j 02:15	0°♉	
evening set	-11421 Jul 24 j 19:38	25°♉55'49	
	-11421 Jul 30 j 01:01	0°♊	
	-11421 Sep 06 j 07:53	0°♋	
conjunction	-11421 Sep 25 j 06:16	14°♋48'08	0°19'35
minimum elong	-11421 Sep 25 j 08:05	14°♋51'41	0°20'10
	-11421 Oct 14 j 21:09	0°♌	
desc. node	-11421 Oct 21 j 02:13	4°♌46'08	
max. Earth dist.	-11421 Nov 02 j 10:54	14°♌11'06	2.40224 AU
	-11421 Nov 23 j 13:15	0°♍	
morning rise	-11421 Nov 28 j 11:13	3°♍37'56	
	-11420 Jan 04 j 00:56	0°♎	
	-11420 Feb 16 j 20:52	0°♏	
	-11420 Apr 03 j 14:19	0°♐	
	-11420 May 24 j 18:55	0°♑	
	-11420 Aug 01 j 19:07	0°♒	
retrograde	-11420 Aug 26 j 07:53	3°♒21'33	
	-11420 Sep 17 j 22:47	30°℞♑	
opposition	-11420 Oct 03 j 21:45	24°♑18'28	-0°35'47
greatest brilliancy	-11420 Oct 03 j 23:54	24°♑16'21	-1.5m
min. Earth dist.	-11420 Oct 07 j 09:14	22°♑55'52	0.64241 AU
asc. node	-11420 Oct 18 j 06:19	18°♑54'55	
direct	-11420 Nov 13 j 16:34	14°♑19'52	
	-11419 Jan 10 j 00:10	0°♒	
	-11419 Mar 05 j 04:34	0°♓	
	-11419 Apr 19 j 07:31	0°♈	
	-11419 May 30 j 14:30	0°♉	
	-11419 Jul 08 j 21:21	0°♊	
	-11419 Aug 16 j 09:51	0°♋	
desc. node	-11419 Sep 07 j 00:09	16°♋46'43	
	-11419 Sep 24 j 04:30	0°♌	
evening set	-11419 Sep 27 j 07:12	2°♌22'45	
	-11419 Nov 03 j 01:51	0°♍	
conjunction	-11419 Nov 25 j 21:56	16°♍38'01	-0°52'52
minimum elong	-11419 Nov 25 j 19:14	16°♍33'10	0°52'39
	-11419 Dec 14 j 16:56	0°♎	
max. Earth dist.	-11418 Jan 02 j 04:54	12°♎52'52	2.52279 AU
morning rise	-11418 Jan 21 j 14:07	26°♎05'41	
	-11418 Jan 27 j 09:31	0°♏	
	-11418 Mar 14 j 04:50	0°♐	
	-11418 May 01 j 03:09	0°♑	
	-11418 Jun 21 j 00:42	0°♒	
	-11418 Aug 20 j 03:43	0°♓	
asc. node	-11418 Sep 05 j 07:28	5°♓48'24	
retrograde	-11418 Oct 07 j 06:29	11°♓15'46	
opposition	-11418 Nov 12 j 13:59	3°♓20'28	3°03'04
greatest brilliancy	-11418 Nov 13 j 06:03	3°♓05'28	-1.8m
min. Earth dist.	-11418 Nov 19 j 10:21	0°♓47'15	0.56168 AU
	-11418 Nov 21 j 14:35	30°℞♒	
direct	-11418 Dec 22 j 10:06	23°♒51'06	
	-11417 Jan 23 j 21:39	0°♓	
	-11417 Mar 23 j 15:43	0°♈	
	-11417 May 07 j 02:23	0°♉	
	-11417 Jun 16 j 19:12	0°♊	
desc. node	-11417 Jul 26 j 01:35	29°♊51'39	
	-11417 Jul 26 j 05:58	0°♋	
	-11417 Sep 03 j 18:59	0°♌	
	-11417 Oct 14 j 08:30	0°♍	
evening set	-11417 Nov 22 j 20:45	28°♍08'15	
	-11417 Nov 25 j 12:52	0°♎	
	-11416 Jan 08 j 13:28	0°♏	
conjunction	-11416 Jan 14 j 21:17	4°♏12'44	-1°14'47
minimum elong	-11416 Jan 14 j 21:24	4°♏12'55	1°15'06
max. Earth dist.	-11416 Feb 03 j 05:13	16°♏57'31	2.61721 AU
	-11416 Feb 23 j 06:31	0°♐	
morning rise	-11416 Mar 05 j 08:10	7°♐07'58	
	-11416 Apr 10 j 05:27	0°♑	
	-11416 May 28 j 01:12	0°♒	
	-11416 Jul 15 j 23:35	0°♓	
asc. node	-11416 Jul 23 j 03:00	4°♓16'39	
	-11416 Sep 06 j 02:39	0°♈	
	-11416 Nov 24 j 11:10	0°♉	
retrograde	-11416 Dec 02 j 03:05	0°♉21'19	
	-11416 Dec 09 j 15:06	30°℞♈	
opposition	-11415 Jan 03 j 16:47	24°♈16'09	6°40'38
greatest brilliancy	-11415 Jan 05 j 09:33	23°♈43'58	-2.4m
min. Earth dist.	-11415 Jan 11 j 08:08	21°♈52'01	0.44303 AU
direct	-11415 Feb 08 j 07:48	16°♈57'47	
	-11415 Mar 27 j 20:36	0°♉	
	-11415 May 17 j 17:41	0°♊	
desc. node	-11415 Jun 12 j 06:13	17°♊26'11	
	-11415 Jun 30 j 01:39	0°♋	
	-11415 Aug 11 j 00:04	0°♌	
	-11415 Sep 22 j 06:59	0°♍	
	-11415 Nov 04 j 17:54	0°♎	
	-11415 Dec 19 j 15:19	0°♏	
evening set	-11414 Jan 06 j 14:29	11°♏45'42	
	-11414 Feb 03 j 18:33	0°♐	
conjunction	-11414 Feb 24 j 18:47	13°♐29'35	-0°55'35
minimum elong	-11414 Feb 24 j 20:21	13°♐32'06	0°56'10
max. Earth dist.	-11414 Feb 28 j 04:49	15°♐40'59	2.66163 AU
	-11414 Mar 22 j 13:45	0°♑	
morning rise	-11414 Apr 13 j 04:19	13°♑49'59	
	-11414 May 08 j 08:20	0°♒	
asc. node	-11414 Jun 09 j 19:01	20°♒59'20	
	-11414 Jun 23 j 15:11	0°♓	
	-11414 Aug 08 j 09:24	0°♈	
	-11414 Sep 23 j 03:00	0°♉	
	-11414 Nov 09 j 05:58	0°♊	
	-11413 Jan 03 j 01:44	0°♋	
retrograde	-11413 Feb 17 j 00:36	11°♋16'58	
min. Earth dist.	-11413 Mar 18 j 05:59	6°♋26'22	0.38546 AU
opposition	-11413 Mar 20 j 11:38	5°♋49'39	3°10'21

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

greatest brilliancy	-11413 Mar 20 j 09:17	5°♋51'17	-2.9m
direct	-11413 Apr 19 j 21:05	0°♋42'35	
desc. node	-11413 Apr 30 j 12:31	1°♋26'35	
	-11413 Jul 09 j 10:00	0°♌	
	-11413 Aug 27 j 21:12	0°♍	
	-11413 Oct 13 j 21:43	0°♎	
	-11413 Nov 29 j 19:15	0°♏	
	-11412 Jan 16 j 00:29	0°♐	
evening set	-11412 Feb 15 j 21:32	19°♐36'04	
	-11412 Mar 03 j 05:13	0°♑	
max. Earth dist.	-11412 Mar 23 j 15:30	13°♑05'46	2.65257 AU
conjunction	-11412 Apr 03 j 20:49	20°♑20'13	-0°13'35
minimum elong	-11412 Apr 03 j 21:23	20°♑21'08	0°14'11
behind sun begin	-11412 Apr 03 j 12:28	20°♑06'43	
behind sun end	-11412 Apr 04 j 06:18	20°♑35'33	
	-11412 Apr 18 j 17:39	0°♒	
asc. node	-11412 Apr 26 j 11:47	5°♒04'21	
morning rise	-11412 May 20 j 19:36	21°♒09'23	
	-11412 Jun 03 j 00:22	0°♓	
	-11412 Jul 16 j 19:32	0°♈	
	-11412 Aug 28 j 06:19	0°♉	
	-11412 Oct 08 j 18:27	0°♊	
	-11412 Nov 19 j 01:43	0°♋	
	-11412 Dec 31 j 14:13	0°♌	
	-11411 Feb 17 j 11:19	0°♍	
desc. node	-11411 Mar 17 j 14:12	13°♍16'45	
retrograde	-11411 Apr 19 j 15:00	20°♍05'54	
min. Earth dist.	-11411 May 18 j 14:02	14°♍27'43	0.47907 AU
greatest brilliancy	-11411 May 25 j 08:59	12°♍04'24	-2.3m
opposition	-11411 May 26 j 14:11	11°♍38'31	-4°05'23
direct	-11411 Jun 28 j 23:49	4°♍44'11	
	-11411 Sep 13 j 12:58	0°♎	
	-11411 Nov 06 j 05:14	0°♏	
	-11411 Dec 26 j 03:31	0°♐	
	-11410 Feb 12 j 11:57	0°♑	
asc. node	-11410 Mar 14 j 08:36	19°♑00'27	
evening set	-11410 Mar 26 j 13:24	26°♑54'10	
	-11410 Mar 31 j 07:28	0°♒	
max. Earth dist.	-11410 Apr 19 j 12:48	12°♒39'53	2.59149 AU
conjunction	-11410 May 14 j 15:22	29°♒34'03	0°36'23
minimum elong	-11410 May 14 j 13:55	29°♒31'34	0°36'01
	-11410 May 15 j 06:35	0°♓	
	-11410 Jun 27 j 06:05	0°♈	
morning rise	-11410 Jul 03 j 03:42	4°♈13'24	
	-11410 Aug 07 j 10:56	0°♉	
	-11410 Sep 16 j 08:44	0°♊	
	-11410 Oct 25 j 16:24	0°♋	
	-11410 Dec 04 j 07:20	0°♌	
	-11409 Jan 14 j 10:44	0°♍	
desc. node	-11409 Feb 02 j 10:36	13°♍09'19	
	-11409 Feb 28 j 06:08	0°♎	
	-11409 Apr 26 j 07:05	0°♏	
retrograde	-11409 Jun 02 j 19:32	8°♏06'05	
min. Earth dist.	-11409 Jul 06 j 21:24	0°♏26'19	0.59296 AU
	-11409 Jul 08 j 00:15	30°℞♎	
greatest brilliancy	-11409 Jul 11 j 08:30	28°♎40'46	-1.7m
opposition	-11409 Jul 12 j 08:07	28°♎17'29	-5°26'14
direct	-11409 Aug 18 j 06:05	19°♎46'13	
	-11409 Oct 02 j 13:52	0°♏	
	-11409 Dec 02 j 22:57	0°♐	
	-11408 Jan 23 j 10:59	0°♑	
asc. node	-11408 Jan 30 j 10:18	4°♑15'04	
	-11408 Mar 11 j 08:59	0°♒	
	-11408 Apr 25 j 13:10	0°♓	
evening set	-11408 May 08 j 05:58	8°♓45'09	
max. Earth dist.	-11408 May 24 j 11:36	20°♓08'54	2.48593 AU
	-11408 Jun 07 j 06:08	0°♈	
conjunction	-11408 Jun 30 j 10:27	16°♈56'51	1°11'36
minimum elong	-11408 Jun 30 j 09:23	16°♈54'53	1°11'44
	-11408 Jul 17 j 21:45	0°♉	
morning rise	-11408 Aug 26 j 05:42	0°♊05'13	
	-11408 Aug 26 j 03:01	0°♊	
	-11408 Oct 03 j 16:58	0°♋	
	-11408 Nov 11 j 12:26	0°♌	
desc. node	-11408 Dec 20 j 04:44	29°♌03'35	
	-11408 Dec 21 j 11:27	0°♍	
	-11407 Feb 01 j 14:37	0°♎	
	-11407 Mar 19 j 09:52	0°♏	
	-11407 May 12 j 17:28	0°♐	
retrograde	-11407 Jul 08 j 13:44	15°♐42'29	
min. Earth dist.	-11407 Aug 15 j 19:16	6°♐32'08	0.65632 AU
opposition	-11407 Aug 17 j 12:12	5°♐50'51	-4°12'14
greatest brilliancy	-11407 Aug 17 j 07:03	5°♐56'02	-1.4m
	-11407 Sep 02 j 10:43	30°℞♏	
direct	-11407 Sep 25 j 21:00	26°♏23'09	
	-11407 Oct 21 j 11:16	0°♐	
asc. node	-11407 Dec 17 j 15:30	23°♐39'44	
	-11407 Dec 29 j 14:37	0°♑	
	-11406 Feb 18 j 21:02	0°♒	
	-11406 Apr 06 j 02:14	0°♓	
	-11406 May 19 j 00:21	0°♈	
	-11406 Jun 28 j 12:51	0°♉	
evening set	-11406 Jun 30 j 13:53	1°♉32'59	
	-11406 Aug 06 j 11:59	0°♊	
max. Earth dist.	-11406 Aug 23 j 10:14	13°♊14'00	2.38353 AU
conjunction	-11406 Aug 29 j 23:54	18°♊23'05	0°48'38
minimum elong	-11406 Aug 30 j 03:13	18°♊29'34	0°49'13
	-11406 Sep 13 j 19:25	0°♋	
	-11406 Oct 22 j 08:52	0°♌	
morning rise	-11406 Nov 02 j 17:37	8°♌42'36	
desc. node	-11406 Nov 06 j 22:08	11°♌53'53	
	-11406 Dec 01 j 00:45	0°♍	
	-11405 Jan 11 j 13:13	0°♎	
	-11405 Feb 24 j 14:13	0°♏	
	-11405 Apr 13 j 02:50	0°♐	
	-11405 Jun 06 j 13:13	0°♑	
retrograde	-11405 Aug 12 j 22:04	20°♑01'53	
opposition	-11405 Sep 21 j 02:12	10°♑40'12	-1°46'56
greatest brilliancy	-11405 Sep 21 j 05:51	10°♑36'32	-1.4m
min. Earth dist.	-11405 Sep 23 j 03:11	9°♑51'14	0.65850 AU
direct	-11405 Oct 31 j 17:49	0°♑44'17	
asc. node	-11405 Nov 04 j 21:30	0°♑50'40	
	-11404 Jan 24 j 16:20	0°♒	
	-11404 Mar 14 j 14:33	0°♓	
	-11404 Apr 27 j 16:18	0°♈	
	-11404 Jun 07 j 13:54	0°♉	
	-11404 Jul 16 j 15:57	0°♊	
	-11404 Aug 24 j 00:54	0°♋	
evening set	-11404 Sep 02 j 02:23	7°♋04'50	
desc. node	-11404 Sep 23 j 17:23	23°♋52'38	
	-11404 Oct 01 j 16:13	0°♌	
conjunction	-11404 Nov 03 j 00:30	24°♌29'54	-0°29'24
minimum elong	-11404 Nov 02 j 22:17	24°♌25'47	0°28'58
	-11404 Nov 10 j 10:13	0°♍	
max. Earth dist.	-11404 Dec 16 j 01:06	25°♍49'47	2.47553 AU
	-11404 Dec 21 j 22:34	0°♎	
morning rise	-11403 Jan 01 j 22:11	7°♎41'41	
	-11403 Feb 03 j 14:30	0°♏	
	-11403 Mar 21 j 14:40	0°♐	

Attention, astronomical year style is used: The year -11899 in astronomical counting style is the year 11900 BCE in historical counting style.

	-11403 May 09 j 07:59	0°♉	
	-11403 Jul 02 j 00:42	0°♒	
retrograde	-11403 Sep 19 j 18:55	25°♒52'56	
asc. node	-11403 Sep 21 j 23:46	25°♒51'05	
opposition	-11403 Oct 27 j 03:43	17°♒26'40	1°32'19
greatest brilliancy	-11403 Oct 27 j 10:19	17°♒20'19	-1.7m
min. Earth dist.	-11403 Nov 01 j 18:21	15°♒17'11	0.60002 AU
direct	-11403 Dec 06 j 15:42	7°♒37'33	
	-11402 Feb 13 j 20:21	0°♓	
	-11402 Apr 04 j 02:07	0°♈	
	-11402 May 16 j 16:53	0°♉	
	-11402 Jun 25 j 14:54	0°♊	
	-11402 Aug 03 j 13:34	0°♋	
desc. node	-11402 Aug 11 j 18:41	6°♋20'00	
	-11402 Sep 11 j 16:46	0°♌	
	-11402 Oct 21 j 21:39	0°♍	
evening set	-11402 Nov 02 j 09:43	8°♍22'19	
	-11402 Dec 02 j 18:54	0°♎	
conjunction	-11402 Dec 27 j 18:54	17°♎16'39	-1°12'20
minimum elong	-11402 Dec 27 j 17:48	17°♎14'46	1°12'28
	-11401 Jan 15 j 14:38	0°♏	
max. Earth dist.	-11401 Jan 23 j 02:18	4°♏59'50	2.58572 AU
morning rise	-11401 Feb 18 j 06:09	22°♏12'36	
	-11401 Mar 02 j 06:37	0°♐	
	-11401 Apr 18 j 11:09	0°♑	
	-11401 Jun 06 j 02:04	0°♒	
	-11401 Jul 27 j 05:31	0°♓	
asc. node	-11401 Aug 09 j 20:59	7°♓29'58	
	-11401 Sep 26 j 10:47	0°♈	
retrograde	-11401 Nov 08 j 07:06	9°♈18'06	
opposition	-11401 Dec 12 j 13:26	2°♈24'43	5°28'26
greatest brilliancy	-11401 Dec 13 j 23:38	1°♈55'17	-2.2m
	-11401 Dec 19 j 14:00	30°♓℞	
min. Earth dist.	-11401 Dec 20 j 15:33	29°♓38'33	0.49091 AU
direct	-11400 Jan 19 j 09:15	23°♓58'51	
	-11400 Feb 19 j 16:32	0°♈	
	-11400 Apr 16 j 19:32	0°♉	
	-11400 May 30 j 14:05	0°♊	
desc. node	-11400 Jun 28 j 23:11	21°♊25'00	
	-11400 Jul 10 j 14:02	0°♋	
	-11400 Aug 20 j 04:38	0°♌	
	-11400 Sep 30 j 13:36	0°♍	
	-11400 Nov 12 j 08:48	0°♎	
evening set	-11400 Dec 20 j 18:00	25°♎58'10	
	-11400 Dec 26 j 19:31	0°♏	
conjunction	-11399 Feb 09 j 02:32	28°♏57'58	-1°06'35
minimum elong	-11399 Feb 09 j 03:52	29°♏00'07	1°07'06
	-11399 Feb 10 j 16:56	0°♐	
max. Earth dist.	-11399 Feb 18 j 11:03	5°♐00'06	2.65045 AU
morning rise	-11399 Mar 29 j 09:08	29°♐55'51	
	-11399 Mar 29 j 11:44	0°♑	
	-11399 May 15 j 13:10	0°♒	
asc. node	-11399 Jun 26 j 13:40	26°♒48'49	
	-11399 Jul 01 j 13:32	0°♓	
	-11399 Aug 17 j 19:37	0°♈	
	-11399 Oct 05 j 17:12	0°♉	
	-11399 Dec 01 j 15:21	0°♊	