Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

conjunction	-4899 Feb 21 j 12:39	25°♉50'40	-0°59'55
minimum elong	-4899 Feb 21 j 14:37	25°♉54'08	1°00'09
	-4899 Feb 27 j 10:07	0°♒	
max. Earth dist.	-4899 Mar 28 j 20:59	20°♒21'07	2.54258 AU
	-4899 Apr 12 j 04:14	0°♓	
morning rise	-4899 Apr 18 j 11:36	4°♓12'28	
	-4899 May 28 j 00:06	0°♈	
asc. node	-4899 Jun 23 j 04:41	16°♈35'35	
	-4899 Jul 14 j 19:36	0°♉	
	-4899 Sep 03 j 05:52	0°♊	
	-4899 Oct 30 j 18:29	0°♋	
retrograde	-4899 Dec 29 j 14:47	16°♋08'53	
opposition	-4898 Feb 03 j 18:31	8°♋26'14	5°19'30
greatest brilliancy	-4898 Feb 05 j 03:51	7°♋55'43	-1.8m
min. Earth dist.	-4898 Feb 11 j 09:46	5°♋39'11	0.54992 AU
	-4898 Mar 04 j 01:46	30°℞♊	
direct	-4898 Mar 15 j 12:38	29°♊06'46	
	-4898 Mar 27 j 06:05	0°♋	
	-4898 Jun 05 j 12:43	0°♌	
desc. node	-4898 Jun 22 j 15:29	10°♌49'24	
	-4898 Jul 20 j 14:40	0°♍	
	-4898 Aug 30 j 08:07	0°♎	
	-4898 Oct 08 j 16:50	0°♏	
	-4898 Nov 17 j 04:50	0°♐	
	-4898 Dec 27 j 19:40	0°♑	
	-4897 Feb 08 j 03:45	0°♒	
evening set	-4897 Feb 17 j 08:57	6°♒21'31	
	-4897 Mar 24 j 09:11	0°♓	
conjunction	-4897 Apr 10 j 23:26	11°♓36'56	-0°17'05
minimum elong	-4897 Apr 11 j 00:11	11°♓38'10	0°17'11
max. Earth dist.	-4897 Apr 27 j 02:49	22°♓08'44	2.63230 AU
	-4897 May 09 j 06:18	0°♈	
asc. node	-4897 May 11 j 01:22	1°♈09'22	
morning rise	-4897 May 30 j 01:04	13°♈19'43	
	-4897 Jun 25 j 06:45	0°♉	
	-4897 Aug 12 j 00:14	0°♊	
	-4897 Sep 29 j 14:23	0°♋	
	-4897 Nov 19 j 13:45	0°♌	
	-4896 Jan 20 j 18:01	0°♍	
retrograde	-4896 Feb 27 j 20:38	7°♍37'18	
opposition	-4896 Mar 30 j 22:04	1°♍50'10	2°38'43
greatest brilliancy	-4896 Mar 31 j 18:21	1°♍34'43	-2.6m
	-4896 Apr 05 j 22:59	30°℞♌	
min. Earth dist.	-4896 Apr 07 j 03:56	29°♌38'31	0.42274 AU
direct	-4896 May 04 j 11:34	25°♌00'19	
desc. node	-4896 May 09 j 16:55	25°♌11'44	
	-4896 Jun 01 j 10:24	0°♍	
	-4896 Jul 29 j 02:07	0°♎	
	-4896 Sep 11 j 08:15	0°♏	
	-4896 Oct 23 j 15:51	0°♐	
	-4896 Dec 05 j 06:37	0°♑	
	-4895 Jan 18 j 02:29	0°♒	
	-4895 Mar 04 j 09:07	0°♓	
asc. node	-4895 Mar 27 j 21:20	15°♓15'17	
evening set	-4895 Apr 01 j 21:13	18°♓28'30	
	-4895 Apr 19 j 20:02	0°♈	
conjunction	-4895 May 20 j 04:22	19°♈23'07	0°29'08
minimum elong	-4895 May 20 j 03:22	19°♈21'32	0°29'10
max. Earth dist.	-4895 May 20 j 15:45	19°♈41'16	2.66950 AU
	-4895 Jun 05 j 19:42	0°♉	
morning rise	-4895 Jul 05 j 01:51	18°♉42'49	
	-4895 Jul 22 j 15:04	0°♊	
	-4895 Sep 06 j 19:28	0°♋	
	-4895 Oct 22 j 07:46	0°♌	
	-4895 Dec 06 j 12:37	0°♍	
	-4894 Jan 21 j 07:29	0°♎	
	-4894 Mar 11 j 19:38	0°♏	
desc. node	-4894 Mar 27 j 19:05	8°♏15'25	
retrograde	-4894 May 16 j 17:04	22°♏11'00	
min. Earth dist.	-4894 Jun 13 j 01:17	17°♏43'16	0.38670 AU
opposition	-4894 Jun 17 j 14:08	16°♏27'02	-5°25'37
greatest brilliancy	-4894 Jun 16 j 15:50	16°♏42'41	-2.8m
direct	-4894 Jul 17 j 12:27	11°♏18'42	
	-4894 Sep 16 j 15:28	0°♐	
	-4894 Nov 08 j 07:47	0°♑	
	-4894 Dec 26 j 13:56	0°♒	
asc. node	-4893 Feb 12 j 18:41	0°♓19'04	
	-4893 Feb 12 j 06:33	0°♓	
	-4893 Apr 01 j 01:03	0°♈	
evening set	-4893 May 11 j 03:41	25°♈17'52	
	-4893 May 18 j 13:27	0°♉	
max. Earth dist.	-4893 Jun 13 j 14:57	16°♉40'20	2.65228 AU
conjunction	-4893 Jun 26 j 22:21	25°♉16'34	1°02'12
minimum elong	-4893 Jun 26 j 21:12	25°♉14'42	1°02'23
	-4893 Jul 04 j 04:34	0°♊	
morning rise	-4893 Aug 11 j 14:47	25°♊24'45	
	-4893 Aug 18 j 10:25	0°♋	
	-4893 Oct 01 j 02:46	0°♌	
	-4893 Nov 12 j 09:11	0°♍	
	-4893 Dec 23 j 14:19	0°♎	
	-4892 Feb 02 j 09:24	0°♏	
desc. node	-4892 Feb 12 j 19:04	7°♏36'45	
	-4892 Mar 14 j 22:29	0°♐	
	-4892 Apr 29 j 02:12	0°♑	
retrograde	-4892 Jul 13 j 23:35	28°♑52'39	
min. Earth dist.	-4892 Aug 12 j 15:08	22°♑52'38	0.49730 AU
greatest brilliancy	-4892 Aug 19 j 03:04	20°♑30'02	-2.2m
opposition	-4892 Aug 20 j 11:11	20°♑00'34	-5°14'47
direct	-4892 Sep 23 j 07:34	12°♑46'59	
	-4892 Nov 22 j 23:57	0°♒	
asc. node	-4892 Dec 30 j 18:25	19°♒20'05	
	-4891 Jan 18 j 20:10	0°♓	
	-4891 Mar 10 j 21:55	0°♈	
	-4891 Apr 28 j 19:48	0°♉	
	-4891 Jun 14 j 20:36	0°♊	
evening set	-4891 Jun 17 j 23:10	2°♊01'41	
max. Earth dist.	-4891 Jul 09 j 04:54	16°♊03'50	2.58324 AU
	-4891 Jul 29 j 20:00	0°♋	
conjunction	-4891 Aug 04 j 21:16	4°♋09'01	1°10'20
minimum elong	-4891 Aug 04 j 21:46	4°♋09'53	1°10'37
	-4891 Sep 10 j 17:15	0°♌	
morning rise	-4891 Sep 23 j 01:56	8°♌54'13	
	-4891 Oct 21 j 18:57	0°♍	
	-4891 Nov 30 j 12:52	0°♎	
desc. node	-4891 Dec 30 j 18:48	23°♎11'45	
	-4890 Jan 08 j 15:16	0°♏	
	-4890 Feb 16 j 22:29	0°♐	
	-4890 Mar 29 j 13:19	0°♑	
	-4890 May 12 j 07:33	0°♒	
	-4890 Jul 03 j 17:16	0°♓	
retrograde	-4890 Aug 25 j 01:45	14°♓29'43	
min. Earth dist.	-4890 Sep 28 j 22:42	6°♓30'37	0.60793 AU
opposition	-4890 Oct 03 j 19:13	4°♓34'43	-1°48'58
greatest brilliancy	-4890 Oct 03 j 12:18	4°♓41'35	-1.6m
	-4890 Oct 16 j 04:36	30°℞♒	
direct	-4890 Nov 10 j 10:06	25°♒48'19	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

asc. node	-4890 Nov 17 j 19:15	26°♒08'20	
	-4890 Dec 08 j 01:43	0°♓	
	-4889 Feb 14 j 19:33	0°♈	
	-4889 Apr 08 j 13:13	0°♉	
	-4889 May 26 j 21:24	0°♊	
	-4889 Jul 11 j 03:35	0°♋	
evening set	-4889 Jul 30 j 23:53	13°♋45'21	
max. Earth dist.	-4889 Aug 15 j 03:55	24°♋31'03	2.47093 AU
	-4889 Aug 22 j 18:42	0°♌	
conjunction	-4889 Sep 21 j 22:22	22°♌12'00	0°38'14
minimum elong	-4889 Sep 22 j 00:24	22°♌15'48	0°38'23
	-4889 Oct 02 j 07:12	0°♍	
	-4889 Nov 10 j 09:00	0°♎	
desc. node	-4889 Nov 17 j 16:16	5°♎40'57	
morning rise	-4889 Nov 19 j 16:57	7°♎15'48	
	-4889 Dec 18 j 19:08	0°♏	
	-4888 Jan 26 j 10:06	0°♐	
	-4888 Mar 06 j 03:22	0°♑	
	-4888 Apr 16 j 22:19	0°♒	
	-4888 Jun 01 j 02:36	0°♓	
	-4888 Jul 23 j 07:29	0°♈	
retrograde	-4888 Sep 28 j 18:48	20°♈45'27	
asc. node	-4888 Oct 04 j 20:31	20°♈30'44	
opposition	-4888 Nov 07 j 19:49	10°♈56'08	1°16'16
min. Earth dist.	-4888 Nov 06 j 16:03	11°♈24'03	0.66525 AU
greatest brilliancy	-4888 Nov 07 j 17:53	10°♈58'05	-1.4m
direct	-4888 Dec 17 j 20:38	1°♈18'26	
	-4887 Mar 13 j 18:16	0°♉	
	-4887 May 05 j 03:41	0°♊	
	-4887 Jun 20 j 15:05	0°♋	
	-4887 Aug 02 j 12:25	0°♌	
	-4887 Sep 11 j 21:38	0°♍	
evening set	-4887 Sep 21 j 17:14	7°♍30'14	
desc. node	-4887 Oct 04 j 12:01	17°♍22'09	
	-4887 Oct 20 j 16:53	0°♎	
conjunction	-4887 Nov 23 j 04:30	26°♎19'31	-0°34'47
minimum elong	-4887 Nov 23 j 01:40	26°♎13'55	0°34'50
	-4887 Nov 27 j 20:36	0°♏	
max. Earth dist.	-4887 Dec 09 j 04:33	8°♏54'00	2.37780 AU
	-4886 Jan 05 j 06:42	0°♐	
morning rise	-4886 Jan 29 j 22:36	18°♐51'03	
	-4886 Feb 13 j 19:32	0°♑	
	-4886 Mar 27 j 04:53	0°♒	
	-4886 May 10 j 01:38	0°♓	
	-4886 Jun 26 j 05:02	0°♈	
	-4886 Aug 18 j 06:43	0°♉	
asc. node	-4886 Aug 22 j 21:56	2°♉19'51	
retrograde	-4886 Nov 02 j 21:59	24°♉28'15	
opposition	-4886 Dec 12 j 03:08	15°♉13'18	3°41'31
greatest brilliancy	-4886 Dec 12 j 09:22	15°♉07'08	-1.4m
min. Earth dist.	-4886 Dec 14 j 18:06	14°♉11'01	0.66046 AU
direct	-4885 Jan 22 j 06:38	5°♉13'16	
	-4885 Apr 08 j 19:35	0°♊	
	-4885 May 29 j 18:56	0°♋	
	-4885 Jul 13 j 00:09	0°♌	
desc. node	-4885 Aug 22 j 09:19	29°♌40'51	
	-4885 Aug 22 j 19:27	0°♍	
	-4885 Sep 30 j 17:33	0°♎	
	-4885 Nov 07 j 22:43	0°♏	
evening set	-4885 Nov 28 j 01:21	15°♏44'10	
	-4885 Dec 16 j 11:20	0°♐	
	-4884 Jan 25 j 03:58	0°♑	
conjunction	-4884 Jan 30 j 16:51	4°♑05'13	-1°07'59
minimum elong	-4884 Jan 30 j 17:33	4°♑06'30	1°08'14
	-4884 Mar 06 j 16:09	0°♒	
max. Earth dist.	-4884 Mar 13 j 20:47	5°♒02'54	2.49510 AU
morning rise	-4884 Mar 30 j 13:19	16°♒35'50	
	-4884 Apr 19 j 08:17	0°♓	
	-4884 Jun 04 j 07:13	0°♈	
asc. node	-4884 Jul 09 j 21:32	22°♈12'19	
	-4884 Jul 22 j 18:43	0°♉	
	-4884 Sep 13 j 12:57	0°♊	
	-4884 Dec 02 j 22:39	0°♋	
retrograde	-4884 Dec 11 j 11:41	0°♋26'21	
	-4884 Dec 19 j 19:16	30°℞♊	
opposition	-4883 Jan 17 j 18:39	22°♊10'37	5°11'26
greatest brilliancy	-4883 Jan 18 j 20:27	21°♊46'10	-1.6m
min. Earth dist.	-4883 Jan 24 j 03:32	19°♊46'09	0.59261 AU
direct	-4883 Feb 27 j 09:50	12°♊26'03	
	-4883 Apr 27 j 23:46	0°♋	
	-4883 Jun 17 j 18:09	0°♌	
desc. node	-4883 Jul 09 j 08:54	14°♌46'17	
	-4883 Jul 30 j 13:03	0°♍	
	-4883 Sep 08 j 08:51	0°♎	
	-4883 Oct 17 j 04:20	0°♏	
	-4883 Nov 25 j 05:45	0°♐	
	-4882 Jan 04 j 11:08	0°♑	
evening set	-4882 Jan 28 j 06:24	17°♑10'27	
	-4882 Feb 15 j 11:03	0°♒	
conjunction	-4882 Mar 24 j 12:35	25°♒22'09	-0°35'32
minimum elong	-4882 Mar 24 j 14:09	25°♒24'47	0°35'40
	-4882 Mar 31 j 10:30	0°♓	
max. Earth dist.	-4882 Apr 16 j 18:35	10°♓49'40	2.60333 AU
morning rise	-4882 May 14 j 18:08	29°♓03'12	
	-4882 May 16 j 05:23	0°♈	
asc. node	-4882 May 27 j 17:56	7°♈23'56	
	-4882 Jul 02 j 10:09	0°♉	
	-4882 Aug 19 j 20:45	0°♊	
	-4882 Oct 09 j 09:06	0°♋	
	-4882 Dec 05 j 21:56	0°♌	
retrograde	-4881 Feb 01 j 12:34	15°♌18'31	
opposition	-4881 Mar 07 j 07:01	8°♌42'06	4°25'56
greatest brilliancy	-4881 Mar 08 j 17:47	8°♌13'05	-2.3m
min. Earth dist.	-4881 Mar 15 j 18:12	5°♌53'09	0.47210 AU
direct	-4881 Apr 13 j 12:13	0°♌37'25	
desc. node	-4881 May 27 j 09:11	11°♌52'51	
	-4881 Jun 29 j 15:07	0°♍	
	-4881 Aug 13 j 07:25	0°♎	
	-4881 Sep 23 j 12:05	0°♏	
	-4881 Nov 03 j 05:19	0°♐	
	-4881 Dec 14 j 18:34	0°♑	
	-4880 Jan 26 j 20:11	0°♒	
	-4880 Mar 11 j 14:18	0°♓	
evening set	-4880 Mar 16 j 12:19	3°♓14'04	
asc. node	-4880 Apr 13 j 14:01	21°♓30'49	
	-4880 Apr 26 j 18:02	0°♈	
conjunction	-4880 May 05 j 02:27	5°♈21'43	0°12'08
minimum elong	-4880 May 05 j 01:59	5°♈20'57	0°12'08
behind sun begin	-4880 May 04 j 13:04	5°♈00'16	
behind sun end	-4880 May 05 j 14:53	5°♈41'39	
max. Earth dist.	-4880 May 11 j 08:06	9°♈21'25	2.66153 AU
	-4880 Jun 12 j 16:21	0°♉	
morning rise	-4880 Jun 20 j 20:48	5°♉12'47	
	-4880 Jul 29 j 17:51	0°♊	
	-4880 Sep 14 j 14:32	0°♋	
	-4880 Oct 31 j 11:18	0°♌	
	-4880 Dec 18 j 07:07	0°♍	
	-4879 Feb 08 j 10:00	0°♎	
desc. node	-4879 Apr 13 j 11:07	21°♎16'45	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

retrograde	-4879 Apr 16 j 08:17	21°♎19'59		
opposition	-4879 May 16 j 19:19	16°♎16'22	-2°31'12	
greatest brilliancy	-4879 May 16 j 19:06	16°♎16'31	-3.0m	
min. Earth dist.	-4879 May 17 j 13:41	16°♎04'07	0.37799 AU	
direct	-4879 Jun 16 j 07:16	11°♎08'59		
	-4879 Aug 15 j 05:03	0°♏		
	-4879 Oct 04 j 16:26	0°♐		
	-4879 Nov 19 j 19:10	0°♑		
	-4878 Jan 04 j 14:14	0°♒		
	-4878 Feb 20 j 01:19	0°♓		
asc. node	-4878 Mar 01 j 10:48	6°♓00'26		
	-4878 Apr 08 j 04:17	0°♈		
evening set	-4878 Apr 26 j 04:40	11°♈25'36		
	-4878 May 25 j 09:57	0°♉		
max. Earth dist.	-4878 Jun 04 j 08:39	6°♉21'00	2.66557 AU	
conjunction	-4878 Jun 12 j 05:59	11°♉24'11	0°51'38	
minimum elong	-4878 Jun 12 j 04:41	11°♉22'05	0°51'46	
	-4878 Jul 11 j 01:26	0°♊		
morning rise	-4878 Jul 27 j 15:15	10°♊49'32		
	-4878 Aug 25 j 14:09	0°♋		
	-4878 Oct 08 j 19:55	0°♌		
	-4878 Nov 20 j 22:12	0°♍		
	-4877 Jan 02 j 05:42	0°♎		
	-4877 Feb 13 j 12:58	0°♏		
desc. node	-4877 Mar 01 j 13:48	11°♏09'10		
	-4877 Mar 29 j 19:07	0°♐		
	-4877 May 24 j 22:05	0°♑		
retrograde	-4877 Jun 24 j 20:49	6°♑11'36		
min. Earth dist.	-4877 Jul 22 j 11:21	1°♑03'57	0.44708 AU	
	-4877 Jul 25 j 16:14	30°℞♐		
greatest brilliancy	-4877 Jul 28 j 20:28	28°♐55'16	-2.4m	
opposition	-4877 Jul 30 j 11:31	28°♐22'09	-6°12'36	
direct	-4877 Aug 31 j 15:05	21°♐59'35		
	-4877 Oct 08 j 18:55	0°♑		
	-4877 Dec 08 j 23:49	0°♒		
asc. node	-4876 Jan 17 j 08:55	22°♒51'06		
	-4876 Jan 29 j 08:13	0°♓		
	-4876 Mar 18 j 17:03	0°♈		
	-4876 May 05 j 22:29	0°♉		
evening set	-4876 Jun 02 j 16:23	17°♉39'08		
	-4876 Jun 21 j 18:05	0°♊		
max. Earth dist.	-4876 Jun 28 j 06:46	4°♊16'22	2.61625 AU	
conjunction	-4876 Jul 19 j 18:54	18°♊31'30	1°11'01	
minimum elong	-4876 Jul 19 j 18:34	18°♊30'57	1°11'16	
	-4876 Aug 05 j 18:57	0°♋		
morning rise	-4876 Sep 05 j 00:34	20°♋53'18		
	-4876 Sep 17 j 22:23	0°♌		
	-4876 Oct 29 j 09:22	0°♍		
	-4876 Dec 08 j 14:14	0°♎		
desc. node	-4875 Jan 16 j 12:59	29°♎31'22		
	-4875 Jan 17 j 04:04	0°♏		
	-4875 Feb 26 j 00:15	0°♐		
	-4875 Apr 08 j 11:36	0°♑		
	-4875 May 24 j 13:09	0°♒		
retrograde	-4875 Aug 09 j 21:06	28°♒32'54		
min. Earth dist.	-4875 Sep 11 j 19:32	21°♒16'06	0.56953 AU	
greatest brilliancy	-4875 Sep 17 j 09:28	19°♒05'24	-1.8m	
opposition	-4875 Sep 18 j 00:54	18°♒50'20	-3°09'44	
direct	-4875 Oct 24 j 08:26	10°♒34'16		
asc. node	-4875 Dec 04 j 09:25	19°♒12'05		
	-4875 Dec 29 j 21:18	0°♓		
	-4874 Feb 24 j 16:51	0°♈		
	-4874 Apr 16 j 10:23	0°♉		
	-4874 Jun 03 j 03:02	0°♊		
evening set	-4874 Jul 13 j 10:27	26°♊44'14		
	-4874 Jul 18 j 05:15	0°♋		
max. Earth dist.	-4874 Jul 29 j 15:06	7°♋51'51	2.51862 AU	
	-4874 Aug 29 j 21:53	0°♌		
conjunction	-4874 Sep 01 j 19:25	2°♌05'33	0°56'31	
minimum elong	-4874 Sep 01 j 21:14	2°♌08'51	0°56'44	
	-4874 Oct 09 j 14:34	0°♍		
morning rise	-4874 Oct 25 j 23:45	12°♍24'32		
	-4874 Nov 17 j 21:37	0°♎		
desc. node	-4874 Dec 04 j 10:09	12°♎48'15		
	-4874 Dec 26 j 12:45	0°♏		
	-4873 Feb 03 j 08:17	0°♐		
	-4873 Mar 15 j 06:45	0°♑		
	-4873 Apr 26 j 11:55	0°♒		
	-4873 Jun 11 j 23:37	0°♓		
	-4873 Aug 10 j 16:09	0°♈		
retrograde	-4873 Sep 16 j 05:47	7°♈24'35		
	-4873 Oct 19 j 23:57	30°℞♓		
asc. node	-4873 Oct 22 j 11:41	29°♓00'57		
min. Earth dist.	-4873 Oct 23 j 16:40	28°♓31'56	0.64983 AU	
opposition	-4873 Oct 26 j 07:32	27°♓28'45	0°08'54	
greatest brilliancy	-4873 Oct 26 j 07:11	27°♓29'06	-1.5m	
direct	-4873 Dec 04 j 13:21	18°♓07'30		
	-4872 Jan 23 j 15:51	0°♈		
	-4872 Mar 24 j 01:20	0°♉		
	-4872 May 13 j 06:45	0°♊		
	-4872 Jun 28 j 03:23	0°♋		
	-4872 Aug 09 j 21:02	0°♌		
evening set	-4872 Aug 30 j 00:59	14°♌47'27		
	-4872 Sep 19 j 06:43	0°♍		
max. Earth dist.	-4872 Sep 25 j 15:20	4°♍50'38	2.39750 AU	
desc. node	-4872 Oct 21 j 06:42	24°♍38'13		
conjunction	-4872 Oct 27 j 14:19	29°♍33'50	-0°04'38	
minimum elong	-4872 Oct 27 j 13:56	29°♍33'06	0°04'36	
behind sun begin	-4872 Oct 26 j 12:20	28°♍43'07		
behind sun end	-4872 Oct 28 j 15:32	0°♎23'06		
	-4872 Oct 28 j 03:43	0°♎		
	-4872 Dec 05 j 08:53	0°♏		
morning rise	-4871 Jan 01 j 14:18	21°♏18'05		
	-4871 Jan 12 j 19:44	0°♐		
	-4871 Feb 21 j 08:51	0°♑		
	-4871 Apr 03 j 19:30	0°♒		
	-4871 May 17 j 23:06	0°♓		
	-4871 Jul 05 j 04:22	0°♈		
	-4871 Sep 01 j 16:04	0°♉		
asc. node	-4871 Sep 08 j 13:18	2°♉42'34		
retrograde	-4871 Oct 20 j 00:49	11°♉32'08		
opposition	-4871 Nov 28 j 16:51	2°♉01'12	2°50'21	
greatest brilliancy	-4871 Nov 28 j 18:06	1°♉59'57	-1.3m	
min. Earth dist.	-4871 Nov 29 j 20:21	1°♉33'46	0.66985 AU	
	-4871 Dec 03 j 19:08	30°℞♈		
direct	-4870 Jan 08 j 13:54	22°♈06'31		
	-4870 Feb 16 j 23:24	0°♉		
	-4870 Apr 20 j 00:37	0°♊		
	-4870 Jun 07 j 11:35	0°♋		
	-4870 Jul 21 j 00:03	0°♌		
	-4870 Aug 30 j 13:48	0°♍		
desc. node	-4870 Sep 08 j 03:23	6°♍31'56		
	-4870 Oct 08 j 09:49	0°♎		
evening set	-4870 Oct 31 j 22:42	18°♎29'37		
	-4870 Nov 15 j 13:25	0°♏		
	-4870 Dec 23 j 23:57	0°♐		
conjunction	-4869 Jan 05 j 05:59	9°♐24'26	-1°05'25	
minimum elong	-4869 Jan 05 j 04:13	9°♐21'03	1°05'39	
	-4869 Feb 01 j 13:49	0°♑		

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

max. Earth dist.	-4869 Feb 22 j 22:21	15°♉39'57	2.44325 AU
morning rise	-4869 Mar 10 j 06:23	26°♉40'10	
	-4869 Mar 14 j 23:12	0°♒	
	-4869 Apr 27 j 14:49	0°♓	
	-4869 Jun 12 j 19:57	0°♈	
asc. node	-4869 Jul 27 j 12:55	27°♈11'20	
	-4869 Aug 01 j 09:03	0°♉	
	-4869 Sep 27 j 15:20	0°♊	
retrograde	-4869 Nov 26 j 04:08	16°♊00'59	
opposition	-4868 Jan 03 j 08:53	7°♊18'28	4°45'30
greatest brilliancy	-4868 Jan 04 j 02:25	7°♊01'30	-1.5m
min. Earth dist.	-4868 Jan 08 j 07:40	5°♊23'35	0.62650 AU
	-4868 Jan 24 j 09:52	30°℞♉	
direct	-4868 Feb 13 j 10:47	27°♉21'26	
	-4868 Mar 05 j 15:54	0°♊	
	-4868 May 12 j 00:31	0°♋	
	-4868 Jun 27 j 18:10	0°♌	
desc. node	-4868 Jul 26 j 01:25	20°♌07'15	
	-4868 Aug 08 j 10:24	0°♍	
	-4868 Sep 16 j 18:21	0°♎	
	-4868 Oct 25 j 06:00	0°♏	
	-4868 Dec 03 j 00:37	0°♐	
evening set	-4867 Jan 05 j 21:17	25°♐30'15	
	-4867 Jan 11 j 23:25	0°♑	
	-4867 Feb 22 j 17:07	0°♒	
conjunction	-4867 Mar 05 j 08:47	7°♒25'45	-0°52'09
minimum elong	-4867 Mar 05 j 10:50	7°♒29'19	0°52'22
max. Earth dist.	-4867 Apr 05 j 05:14	28°♒28'04	2.56636 AU
	-4867 Apr 07 j 12:06	0°♓	
morning rise	-4867 Apr 28 j 10:06	13°♓51'53	
	-4867 May 23 j 06:17	0°♈	
asc. node	-4867 Jun 13 j 10:47	13°♈30'42	
	-4867 Jul 09 j 18:37	0°♉	
	-4867 Aug 28 j 07:05	0°♊	
	-4867 Oct 21 j 05:13	0°♋	
retrograde	-4866 Jan 09 j 22:36	26°♋15'51	
opposition	-4866 Feb 14 j 08:29	18°♋54'33	5°11'29
greatest brilliancy	-4866 Feb 15 j 20:35	18°♋22'23	-2.0m
min. Earth dist.	-4866 Feb 22 j 12:46	16°♋00'14	0.52342 AU
direct	-4866 Mar 25 j 10:01	9°♋55'34	
	-4866 May 26 j 19:17	0°♌	
desc. node	-4866 Jun 13 j 02:39	10°♌00'43	
	-4866 Jul 13 j 16:45	0°♍	
	-4866 Aug 24 j 07:36	0°♎	
	-4866 Oct 03 j 03:10	0°♏	
	-4866 Nov 11 j 22:39	0°♐	
	-4866 Dec 22 j 19:22	0°♑	
	-4865 Feb 03 j 08:00	0°♒	
evening set	-4865 Feb 28 j 01:14	16°♒51'43	
	-4865 Mar 19 j 16:50	0°♓	
conjunction	-4865 Apr 20 j 10:01	20°♓48'03	-0°06'13
minimum elong	-4865 Apr 20 j 10:16	20°♓48'27	0°06'16
behind sun begin	-4865 Apr 19 j 15:11	20°♓17'29	
behind sun end	-4865 Apr 21 j 05:21	21°♓19'24	
asc. node	-4865 May 01 j 06:04	27°♓48'54	
max. Earth dist.	-4865 May 02 j 21:38	28°♓52'43	2.64514 AU
	-4865 May 04 j 15:23	0°♈	
morning rise	-4865 Jun 07 j 12:10	21°♈40'48	
	-4865 Jun 20 j 14:13	0°♉	
	-4865 Aug 07 j 00:44	0°♊	
	-4865 Sep 23 j 20:42	0°♋	
	-4865 Nov 11 j 21:27	0°♌	
	-4864 Jan 04 j 09:59	0°♍	
retrograde	-4864 Mar 15 j 10:30	22°♍24'39	
opposition	-4864 Apr 15 j 16:31	17°♍02'00	1°02'40
greatest brilliancy	-4864 Apr 15 j 23:31	16°♍57'00	-2.8m
min. Earth dist.	-4864 Apr 21 j 07:38	15°♍25'57	0.40056 AU
desc. node	-4864 Apr 30 j 04:17	13°♍09'28	
direct	-4864 May 18 j 13:01	10°♍56'39	
	-4864 Jul 16 j 18:42	0°♎	
	-4864 Sep 03 j 06:39	0°♏	
	-4864 Oct 17 j 03:09	0°♐	
	-4864 Nov 29 j 14:13	0°♑	
	-4863 Jan 12 j 22:25	0°♒	
	-4863 Feb 27 j 12:57	0°♓	
asc. node	-4863 Mar 18 j 02:03	11°♓59'23	
evening set	-4863 Apr 10 j 22:15	27°♓16'52	
	-4863 Apr 15 j 04:24	0°♈	
max. Earth dist.	-4863 May 26 j 02:02	26°♈04'32	2.67048 AU
conjunction	-4863 May 28 j 16:02	27°♈43'24	0°38'08
minimum elong	-4863 May 28 j 14:51	27°♈41'31	0°38'13
	-4863 Jun 01 j 05:39	0°♉	
morning rise	-4863 Jul 13 j 06:00	26°♉56'51	
	-4863 Jul 17 j 23:22	0°♊	
	-4863 Sep 01 j 21:25	0°♋	
	-4863 Oct 16 j 21:07	0°♌	
	-4863 Nov 30 j 03:45	0°♍	
	-4862 Jan 13 j 06:40	0°♎	
	-4862 Feb 27 j 17:44	0°♏	
desc. node	-4862 Mar 18 j 05:33	11°♏22'53	
	-4862 Apr 22 j 20:50	0°♐	
retrograde	-4862 Jun 01 j 03:51	9°♐21'11	
min. Earth dist.	-4862 Jun 27 j 18:48	4°♐50'43	0.40363 AU
greatest brilliancy	-4862 Jul 02 j 21:51	3°♐19'13	-2.7m
opposition	-4862 Jul 04 j 07:01	2°♐54'20	-6°12'23
	-4862 Jul 14 j 16:50	30°℞♏	
direct	-4862 Aug 03 j 20:34	27°♏24'16	
	-4862 Aug 24 j 08:16	0°♐	
	-4862 Oct 30 j 15:22	0°♑	
	-4862 Dec 20 j 07:02	0°♒	
asc. node	-4861 Feb 03 j 00:34	27°♒33'46	
	-4861 Feb 06 j 22:54	0°♓	
	-4861 Mar 27 j 04:29	0°♈	
	-4861 May 13 j 22:05	0°♉	
evening set	-4861 May 19 j 17:09	3°♉40'45	
max. Earth dist.	-4861 Jun 19 j 07:36	23°♉18'24	2.64170 AU
	-4861 Jun 29 j 14:47	0°♊	
conjunction	-4861 Jul 05 j 11:37	3°♊50'13	1°06'40
minimum elong	-4861 Jul 05 j 10:42	3°♊48'43	1°06'52
	-4861 Aug 13 j 18:57	0°♋	
morning rise	-4861 Aug 20 j 13:00	4°♋34'56	
	-4861 Sep 26 j 06:41	0°♌	
	-4861 Nov 07 j 05:34	0°♍	
	-4861 Dec 18 j 00:49	0°♎	
	-4860 Jan 27 j 06:52	0°♏	
desc. node	-4860 Feb 03 j 06:18	5°♏11'28	
	-4860 Mar 08 j 00:09	0°♐	
	-4860 Apr 20 j 04:08	0°♑	
	-4860 Jun 11 j 22:15	0°♒	
retrograde	-4860 Jul 24 j 07:11	10°♒39'32	
min. Earth dist.	-4860 Aug 24 j 03:14	4°♒11'03	0.52445 AU
greatest brilliancy	-4860 Aug 30 j 10:42	1°♒48'23	-2.0m
opposition	-4860 Aug 31 j 12:49	1°♒23'45	-4°31'16
	-4860 Sep 04 j 07:18	30°℞♑	
direct	-4860 Oct 05 j 07:58	23°♑45'30	
	-4860 Nov 08 j 03:55	0°♒	
asc. node	-4860 Dec 21 j 00:25	18°♒30'17	
	-4859 Jan 11 j 22:09	0°♓	
	-4859 Mar 05 j 11:25	0°♈	
	-4859 Apr 23 j 22:29	0°♉	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4859 Jun 10 j 04:38	0°♊	
evening set	-4859 Jun 27 j 00:28	11°♊02'12	
max. Earth dist.	-4859 Jul 16 j 04:47	23°♊52'11	2.56196 AU
	-4859 Jul 25 j 05:13	0°♋	
conjunction	-4859 Aug 14 j 14:56	14°♋06'34	1°07'14
minimum elong	-4859 Aug 14 j 15:57	14°♋08'21	1°07'30
	-4859 Sep 06 j 01:14	0°♌	
morning rise	-4859 Oct 04 j 06:49	20°♌33'22	
	-4859 Oct 16 j 23:56	0°♍	
	-4859 Nov 25 j 14:03	0°♎	
desc. node	-4859 Dec 21 j 04:40	19°♎43'16	
	-4858 Jan 03 j 12:00	0°♏	
	-4858 Feb 11 j 13:57	0°♐	
	-4858 Mar 23 j 20:45	0°♑	
	-4858 May 05 j 19:49	0°♒	
	-4858 Jun 23 j 22:37	0°♓	
retrograde	-4858 Sep 02 j 08:22	23°♓23'55	
min. Earth dist.	-4858 Oct 08 j 04:33	15°♓04'20	0.62527 AU
opposition	-4858 Oct 12 j 06:12	13°♓26'41	-1°04'10
greatest brilliancy	-4858 Oct 12 j 02:50	13°♓30'03	-1.6m
asc. node	-4858 Nov 08 j 01:29	5°♓17'36	
direct	-4858 Nov 19 j 12:27	4°♓26'19	
	-4857 Feb 07 j 09:37	0°♈	
	-4857 Apr 03 j 00:49	0°♉	
	-4857 May 21 j 23:06	0°♊	
	-4857 Jul 06 j 10:13	0°♋	
evening set	-4857 Aug 10 j 17:31	24°♋41'26	
	-4857 Aug 18 j 02:29	0°♌	
max. Earth dist.	-4857 Aug 26 j 23:51	6°♌28'03	2.44333 AU
	-4857 Sep 27 j 14:06	0°♍	
conjunction	-4857 Oct 04 j 11:39	5°♍14'20	0°24'19
minimum elong	-4857 Oct 04 j 13:15	5°♍17'22	0°24'24
	-4857 Nov 05 j 14:17	0°♎	
desc. node	-4857 Nov 08 j 00:30	1°♎53'23	
morning rise	-4857 Dec 05 j 01:46	23°♎03'13	
	-4857 Dec 13 j 22:28	0°♏	
	-4856 Jan 21 j 11:28	0°♐	
	-4856 Mar 01 j 02:26	0°♑	
	-4856 Apr 11 j 16:37	0°♒	
	-4856 May 26 j 08:16	0°♓	
	-4856 Jul 15 j 11:30	0°♈	
asc. node	-4856 Sep 25 j 03:39	27°♈51'44	
retrograde	-4856 Oct 06 j 11:52	28°♈39'25	
opposition	-4856 Nov 15 j 10:59	18°♈55'44	1°52'38
greatest brilliancy	-4856 Nov 15 j 09:26	18°♈57'18	-1.4m
min. Earth dist.	-4856 Nov 15 j 02:54	19°♈03'50	0.66964 AU
direct	-4856 Dec 25 j 20:40	9°♈10'45	
	-4855 Mar 05 j 21:35	0°♉	
	-4855 Apr 29 j 12:12	0°♊	
	-4855 Jun 15 j 14:08	0°♋	
	-4855 Jul 28 j 16:41	0°♌	
	-4855 Sep 07 j 03:27	0°♍	
desc. node	-4855 Sep 24 j 21:52	13°♍37'24	
evening set	-4855 Oct 05 j 15:35	21°♍57'21	
	-4855 Oct 15 j 22:48	0°♎	
	-4855 Nov 23 j 01:55	0°♏	
conjunction	-4855 Dec 08 j 21:08	12°♏24'36	-0°49'19
minimum elong	-4855 Dec 08 j 17:47	12°♏18'04	0°49'26
	-4855 Dec 31 j 11:23	0°♐	
max. Earth dist.	-4854 Jan 19 j 18:03	14°♐46'45	2.39446 AU
	-4854 Feb 08 j 23:43	0°♑	
morning rise	-4854 Feb 14 j 01:47	3°♑46'25	
	-4854 Mar 22 j 07:51	0°♒	
	-4854 May 05 j 01:09	0°♓	

	-4854 Jun 20 j 17:17	0°♈	
	-4854 Aug 11 j 00:52	0°♉	
asc. node	-4854 Aug 13 j 04:11	1°♉09'22	
	-4854 Oct 21 j 07:39	0°♊	
retrograde	-4854 Nov 11 j 03:11	2°♊27'40	
	-4854 Nov 30 j 15:27	30°℞♉	
opposition	-4854 Dec 20 j 01:16	23°♉23'13	4°07'32
greatest brilliancy	-4854 Dec 20 j 11:09	23°♉13'30	-1.4m
min. Earth dist.	-4854 Dec 23 j 12:20	22°♉01'37	0.65120 AU
direct	-4853 Jan 30 j 06:23	13°♉22'28	
	-4853 Mar 30 j 22:08	0°♊	
	-4853 May 23 j 17:53	0°♋	
	-4853 Jul 07 j 16:29	0°♌	
desc. node	-4853 Aug 12 j 20:24	26°♌18'37	
	-4853 Aug 17 j 18:21	0°♍	
	-4853 Sep 25 j 19:36	0°♎	
	-4853 Nov 03 j 02:25	0°♏	
	-4853 Dec 11 j 16:09	0°♐	
evening set	-4853 Dec 12 j 23:18	0°♐59'49	
	-4852 Jan 20 j 09:49	0°♑	
conjunction	-4852 Feb 12 j 23:32	17°♑12'22	-1°04'22
minimum elong	-4852 Feb 13 j 01:08	17°♑15'16	1°04'35
	-4852 Mar 01 j 22:33	0°♒	
max. Earth dist.	-4852 Mar 22 j 21:19	14°♒34'55	2.52199 AU
morning rise	-4852 Apr 10 j 14:48	27°♒19'31	
	-4852 Apr 14 j 14:22	0°♓	
	-4852 May 30 j 09:56	0°♈	
asc. node	-4852 Jun 30 j 01:55	19°♈19'48	
	-4852 Jul 17 j 10:27	0°♉	
	-4852 Sep 06 j 15:28	0°♊	
	-4852 Nov 07 j 07:01	0°♋	
retrograde	-4852 Dec 21 j 12:49	9°♋38'21	
opposition	-4851 Jan 27 j 05:47	1°♋40'08	5°18'16
greatest brilliancy	-4851 Jan 28 j 12:06	1°♋11'56	-1.7m
	-4851 Jan 31 j 17:16	30°℞♊	
min. Earth dist.	-4851 Feb 03 j 08:39	29°♊01'36	0.57006 AU
direct	-4851 Mar 08 j 11:16	22°♊07'30	
	-4851 Apr 14 j 18:35	0°♋	
	-4851 Jun 10 j 14:10	0°♌	
desc. node	-4851 Jun 29 j 19:16	12°♌38'14	
	-4851 Jul 24 j 12:59	0°♍	
	-4851 Sep 02 j 20:25	0°♎	
	-4851 Oct 11 j 22:34	0°♏	
	-4851 Nov 20 j 04:49	0°♐	
	-4851 Dec 30 j 14:15	0°♑	
evening set	-4850 Feb 08 j 22:38	28°♑45'54	
	-4850 Feb 10 j 17:10	0°♒	
	-4850 Mar 26 j 18:39	0°♓	
conjunction	-4850 Apr 03 j 16:13	5°♓15'00	-0°24'58
minimum elong	-4850 Apr 03 j 17:20	5°♓16'50	0°25'04
max. Earth dist.	-4850 Apr 22 j 23:51	17°♓56'59	2.62029 AU
	-4850 May 11 j 13:34	0°♈	
asc. node	-4850 May 17 j 22:56	4°♈06'49	
morning rise	-4850 May 23 j 15:22	7°♈45'41	
	-4850 Jun 27 j 15:03	0°♉	
	-4850 Aug 14 j 14:54	0°♊	
	-4850 Oct 02 j 21:52	0°♋	
	-4850 Nov 24 j 22:15	0°♌	
retrograde	-4849 Feb 15 j 20:05	27°♌51'00	
opposition	-4849 Mar 20 j 15:54	21°♌41'38	3°33'55
greatest brilliancy	-4849 Mar 21 j 20:15	21°♌19'02	-2.5m
min. Earth dist.	-4849 Mar 28 j 16:29	19°♌08'57	0.44398 AU
direct	-4849 Apr 25 j 11:40	14°♌16'07	
desc. node	-4849 May 17 j 20:07	17°♌32'09	
	-4849 Jun 17 j 06:57	0°♍	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4849 Aug 05 j 07:55	0°♎	
	-4849 Sep 16 j 22:05	0°♏	
	-4849 Oct 28 j 09:14	0°♐	
	-4849 Dec 09 j 10:34	0°♑	
	-4848 Jan 21 j 20:29	0°♒	
	-4848 Mar 06 j 20:19	0°♓	
evening set	-4848 Mar 25 j 23:54	12°♓29'42	
asc. node	-4848 Apr 03 j 19:17	18°♓11'53	
	-4848 Apr 22 j 03:05	0°♈	
conjunction	-4848 May 13 j 19:31	13°♈52'55	0°22'12
minimum elong	-4848 May 13 j 18:43	13°♈51'38	0°22'14
max. Earth dist.	-4848 May 16 j 18:39	15°♈46'29	2.66694 AU
	-4848 Jun 08 j 01:46	0°♉	
morning rise	-4848 Jun 29 j 01:03	13°♉23'06	
	-4848 Jul 24 j 23:44	0°♊	
	-4848 Sep 09 j 10:59	0°♋	
	-4848 Oct 25 j 12:31	0°♌	
	-4848 Dec 10 j 16:39	0°♍	
	-4847 Jan 27 j 10:19	0°♎	
	-4847 Mar 25 j 02:13	0°♏	
desc. node	-4847 Apr 03 j 22:43	3°♏40'22	
retrograde	-4847 May 03 j 18:39	9°♏03'45	
min. Earth dist.	-4847 Jun 01 j 11:48	4°♏23'30	0.37889 AU
opposition	-4847 Jun 03 j 20:06	3°♏45'27	-4°22'14
greatest brilliancy	-4847 Jun 03 j 08:54	3°♏53'00	-2.9m
	-4847 Jun 19 j 20:17	30°℞♎	
direct	-4847 Jul 03 j 17:18	28°♎45'03	
	-4847 Jul 17 j 15:31	0°♏	
	-4847 Sep 25 j 00:49	0°♐	
	-4847 Nov 12 j 22:30	0°♑	
	-4847 Dec 29 j 21:53	0°♒	
	-4846 Feb 14 j 23:39	0°♓	
asc. node	-4846 Feb 19 j 16:16	2°♓58'34	
	-4846 Apr 03 j 10:23	0°♈	
evening set	-4846 May 04 j 19:14	19°♈49'38	
	-4846 May 20 j 19:44	0°♉	
max. Earth dist.	-4846 Jun 09 j 18:57	12°♉45'29	2.65923 AU
conjunction	-4846 Jun 20 j 15:37	19°♉44'48	0°58'09
minimum elong	-4846 Jun 20 j 14:22	19°♉42'48	0°58'19
	-4846 Jul 06 j 11:23	0°♊	
morning rise	-4846 Aug 05 j 03:23	19°♊30'01	
	-4846 Aug 20 j 20:42	0°♋	
	-4846 Oct 03 j 19:26	0°♌	
	-4846 Nov 15 j 10:29	0°♍	
	-4846 Dec 27 j 02:35	0°♎	
	-4845 Feb 06 j 11:04	0°♏	
desc. node	-4845 Feb 19 j 23:09	9°♏42'14	
	-4845 Mar 20 j 21:12	0°♐	
	-4845 May 07 j 11:36	0°♑	
retrograde	-4845 Jul 06 j 14:52	19°♑53'45	
min. Earth dist.	-4845 Aug 04 j 07:30	14°♑17'58	0.47465 AU
greatest brilliancy	-4845 Aug 10 j 20:52	11°♑58'44	-2.3m
opposition	-4845 Aug 12 j 08:59	11°♑26'37	-5°44'02
direct	-4845 Sep 14 j 10:38	4°♑35'10	
	-4845 Nov 30 j 09:14	0°♒	
asc. node	-4844 Jan 07 j 15:30	20°♒56'12	
	-4844 Jan 23 j 07:59	0°♓	
	-4844 Mar 13 j 14:08	0°♈	
	-4844 May 01 j 04:51	0°♉	
evening set	-4844 Jun 11 j 08:49	26°♉13'42	
	-4844 Jun 17 j 04:08	0°♊	
max. Earth dist.	-4844 Jul 04 j 11:03	11°♊21'30	2.59895 AU
conjunction	-4844 Jul 28 j 20:30	27°♊43'00	1°11'18
minimum elong	-4844 Jul 28 j 20:37	27°♊43'13	1°11'33
	-4844 Aug 01 j 05:03	0°♋	
	-4844 Sep 13 j 06:00	0°♌	
morning rise	-4844 Sep 15 j 01:41	1°♌17'56	
	-4844 Oct 24 j 12:17	0°♍	
	-4844 Dec 03 j 11:15	0°♎	
desc. node	-4843 Jan 06 j 22:33	26°♎18'37	
	-4843 Jan 11 j 18:18	0°♏	
	-4843 Feb 20 j 05:59	0°♐	
	-4843 Apr 02 j 03:16	0°♑	
	-4843 May 16 j 13:25	0°♒	
	-4843 Jul 11 j 23:27	0°♓	
retrograde	-4843 Aug 18 j 17:34	8°♓17'04	
min. Earth dist.	-4843 Sep 21 j 18:25	0°♓36'02	0.59185 AU
	-4843 Sep 23 j 07:06	30°℞♒	
opposition	-4843 Sep 27 j 05:51	28°♒26'16	-2°22'43
greatest brilliancy	-4843 Sep 26 j 19:39	28°♒36'21	-1.7m
direct	-4843 Nov 03 j 07:42	19°♒52'24	
asc. node	-4843 Nov 24 j 16:09	22°♒29'35	
	-4843 Dec 18 j 12:36	0°♓	
	-4842 Feb 18 j 10:13	0°♈	
	-4842 Apr 11 j 06:12	0°♉	
	-4842 May 29 j 08:32	0°♊	
	-4842 Jul 13 j 14:08	0°♋	
evening set	-4842 Jul 23 j 05:59	6°♋38'27	
max. Earth dist.	-4842 Aug 07 j 12:01	17°♋17'58	2.49280 AU
	-4842 Aug 25 j 07:11	0°♌	
conjunction	-4842 Sep 12 j 22:05	13°♌35'03	0°47'02
minimum elong	-4842 Sep 13 j 00:08	13°♌38'50	0°47'13
	-4842 Oct 04 j 22:22	0°♍	
morning rise	-4842 Nov 08 j 12:33	26°♍26'23	
	-4842 Nov 13 j 02:59	0°♎	
desc. node	-4842 Nov 24 j 20:38	9°♎06'55	
	-4842 Dec 21 j 15:14	0°♏	
	-4841 Jan 29 j 07:26	0°♐	
	-4841 Mar 10 j 01:41	0°♑	
	-4841 Apr 20 j 22:41	0°♒	
	-4841 Jun 05 j 11:40	0°♓	
	-4841 Jul 29 j 14:37	0°♈	
retrograde	-4841 Sep 24 j 01:42	15°♈35'10	
asc. node	-4841 Oct 12 j 17:31	13°♈14'00	
min. Earth dist.	-4841 Nov 01 j 08:29	6°♈25'55	0.65961 AU
opposition	-4841 Nov 03 j 03:44	5°♈42'27	0°48'54
greatest brilliancy	-4841 Nov 03 j 02:03	5°♈44'08	-1.4m
	-4841 Nov 18 j 14:47	30°℞♓	
direct	-4841 Dec 12 j 20:47	26°♓11'24	
	-4840 Jan 08 j 07:50	0°♈	
	-4840 Mar 17 j 13:28	0°♉	
	-4840 May 08 j 00:08	0°♊	
	-4840 Jun 23 j 06:17	0°♋	
	-4840 Aug 05 j 03:24	0°♌	
evening set	-4840 Sep 11 j 12:47	27°♌41'40	
	-4840 Sep 14 j 13:44	0°♍	
desc. node	-4840 Oct 11 j 16:31	20°♍50'47	
	-4840 Oct 23 j 10:22	0°♎	
max. Earth dist.	-4840 Oct 26 j 15:48	2°♎31'28	2.38000 AU
conjunction	-4840 Nov 11 j 07:25	14°♎48'39	-0°22'01
minimum elong	-4840 Nov 11 j 05:31	14°♎44'56	0°22'02
	-4840 Nov 30 j 14:46	0°♏	
	-4839 Jan 08 j 00:35	0°♐	
morning rise	-4839 Jan 17 j 17:39	7°♐28'35	
	-4839 Feb 16 j 12:31	0°♑	
	-4839 Mar 29 j 20:49	0°♒	
	-4839 May 12 j 18:16	0°♓	
	-4839 Jun 29 j 04:46	0°♈	
	-4839 Aug 22 j 19:13	0°♉	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

asc. node	-4839 Aug 29 j 18:58	3°♉16'25	
retrograde	-4839 Oct 27 j 22:32	19°♉23'27	
opposition	-4839 Dec 06 j 09:27	10°♉00'59	3°20'53
greatest brilliancy	-4839 Dec 06 j 13:16	9°♉57'12	-1.3m
min. Earth dist.	-4839 Dec 08 j 08:53	9°♉13'53	0.66595 AU
direct	-4838 Jan 16 j 11:13	0°♉02'36	
	-4838 Apr 13 j 03:03	0°♊	
	-4838 Jun 01 j 23:16	0°♋	
	-4838 Jul 15 j 22:22	0°♌	
	-4838 Aug 25 j 15:59	0°♍	
desc. node	-4838 Aug 29 j 13:26	2°♍57'18	
	-4838 Oct 03 j 13:38	0°♎	
	-4838 Nov 10 j 18:01	0°♏	
evening set	-4838 Nov 16 j 05:57	4°♏19'10	
	-4838 Dec 19 j 05:02	0°♐	
conjunction	-4837 Jan 19 j 22:39	24°♐08'05	-1°08'23
minimum elong	-4837 Jan 19 j 22:22	24°♐07'34	1°08'39
	-4837 Jan 27 j 19:29	0°♑	
max. Earth dist.	-4837 Mar 07 j 02:03	27°♑47'12	2.47219 AU
	-4837 Mar 10 j 05:04	0°♒	
morning rise	-4837 Mar 22 j 16:33	8°♒45'03	
	-4837 Apr 22 j 19:21	0°♓	
	-4837 Jun 07 j 19:02	0°♈	
asc. node	-4837 Jul 17 j 18:44	24°♈44'07	
	-4837 Jul 26 j 14:31	0°♉	
	-4837 Sep 18 j 17:53	0°♊	
retrograde	-4837 Dec 05 j 07:06	24°♊35'11	
opposition	-4836 Jan 12 j 00:49	16°♊06'50	5°01'52
greatest brilliancy	-4836 Jan 12 j 23:00	15°♊45'37	-1.6m
min. Earth dist.	-4836 Jan 17 j 19:09	13°♊54'41	0.60899 AU
direct	-4836 Feb 21 j 22:30	6°♊15'17	
	-4836 May 03 j 21:42	0°♋	
	-4836 Jun 21 j 15:53	0°♌	
desc. node	-4836 Jul 16 j 12:37	17°♌18'33	
	-4836 Aug 02 j 22:53	0°♍	
	-4836 Sep 11 j 13:31	0°♎	
	-4836 Oct 20 j 05:07	0°♏	
	-4836 Nov 28 j 02:31	0°♐	
	-4835 Jan 07 j 03:47	0°♑	
evening set	-4835 Jan 18 j 20:41	8°♑32'18	
	-4835 Feb 17 j 23:30	0°♒	
conjunction	-4835 Mar 16 j 12:14	18°♒19'08	-0°42'55
minimum elong	-4835 Mar 16 j 14:04	18°♒22'16	0°43'05
	-4835 Apr 02 j 19:36	0°♓	
max. Earth dist.	-4835 Apr 12 j 02:10	6°♓10'43	2.58774 AU
morning rise	-4835 May 07 j 22:11	23°♓07'58	
	-4835 May 18 j 12:56	0°♈	
asc. node	-4835 Jun 03 j 15:36	10°♈19'24	
	-4835 Jul 04 j 19:51	0°♉	
	-4835 Aug 22 j 15:30	0°♊	
	-4835 Oct 13 j 07:17	0°♋	
	-4835 Dec 15 j 23:47	0°♌	
retrograde	-4834 Jan 22 j 08:02	7°♌10'43	
opposition	-4834 Feb 25 j 20:26	0°♌13'21	4°50'55
	-4834 Feb 26 j 11:56	30°℞♋	
greatest brilliancy	-4834 Feb 27 j 08:55	29°♋41'52	-2.1m
min. Earth dist.	-4834 Mar 06 j 07:10	27°♋19'00	0.49530 AU
direct	-4834 Apr 04 j 23:43	21°♋41'31	
	-4834 May 12 j 07:12	0°♌	
desc. node	-4834 Jun 03 j 12:39	10°♌35'03	
	-4834 Jul 05 j 18:03	0°♍	
	-4834 Aug 17 j 19:17	0°♎	
	-4834 Sep 27 j 07:12	0°♏	
	-4834 Nov 06 j 12:58	0°♐	
	-4834 Dec 17 j 17:14	0°♑	
	-4833 Jan 29 j 11:28	0°♒	
evening set	-4833 Mar 10 j 04:14	26°♒48'05	
	-4833 Mar 15 j 00:06	0°♓	
asc. node	-4833 Apr 21 j 11:43	24°♓29'32	
conjunction	-4833 Apr 29 j 11:49	29°♓39'31	0°04'35
minimum elong	-4833 Apr 29 j 11:37	29°♓39'12	0°04'34
behind sun begin	-4833 Apr 28 j 16:09	29°♓07'50	
behind sun end	-4833 Apr 30 j 07:06	0°♈10'33	
	-4833 Apr 30 j 00:33	0°♈	
max. Earth dist.	-4833 May 08 j 12:19	5°♈27'32	2.65519 AU
morning rise	-4833 Jun 15 j 19:00	29°♈54'14	
	-4833 Jun 15 j 22:37	0°♉	
	-4833 Aug 02 j 03:38	0°♊	
	-4833 Sep 18 j 09:37	0°♋	
	-4833 Nov 05 j 01:56	0°♌	
	-4833 Dec 24 j 17:28	0°♍	
	-4832 Feb 22 j 04:14	0°♎	
retrograde	-4832 Apr 02 j 07:53	8°♎40'11	
desc. node	-4832 Apr 20 j 14:00	6°♎37'47	
opposition	-4832 May 02 j 20:39	3°♎34'23	-0°55'29
greatest brilliancy	-4832 May 02 j 22:41	3°♎33'00	-2.9m
min. Earth dist.	-4832 May 06 j 01:18	2°♎42'26	0.38448 AU
	-4832 May 17 j 01:07	30°℞♍	
direct	-4832 Jun 03 j 05:47	28°♍07'15	
	-4832 Jun 20 j 04:40	0°♎	
	-4832 Aug 24 j 06:14	0°♏	
	-4832 Oct 09 j 20:43	0°♐	
	-4832 Nov 23 j 13:35	0°♑	
	-4831 Jan 07 j 14:42	0°♒	
	-4831 Feb 22 j 15:12	0°♓	
asc. node	-4831 Mar 08 j 08:18	8°♓49'13	
	-4831 Apr 10 j 12:13	0°♈	
evening set	-4831 Apr 19 j 17:45	5°♈52'16	
	-4831 May 27 j 15:50	0°♉	
max. Earth dist.	-4831 May 31 j 11:30	2°♉26'15	2.66888 AU
conjunction	-4831 Jun 06 j 01:01	5°♉59'31	0°46'17
minimum elong	-4831 Jun 05 j 23:44	5°♉57'28	0°46'24
	-4831 Jul 13 j 08:32	0°♊	
morning rise	-4831 Jul 21 j 10:56	5°♊15'42	
	-4831 Aug 28 j 01:47	0°♋	
	-4831 Oct 11 j 15:38	0°♌	
	-4831 Nov 24 j 05:40	0°♍	
	-4830 Jan 06 j 05:49	0°♎	
	-4830 Feb 18 j 14:15	0°♏	
desc. node	-4830 Mar 08 j 17:11	12°♏07'31	
	-4830 Apr 06 j 05:22	0°♐	
retrograde	-4830 Jun 15 j 02:12	25°♐27'00	
min. Earth dist.	-4830 Jul 12 j 01:22	20°♐39'20	0.42605 AU
greatest brilliancy	-4830 Jul 18 j 01:16	18°♐44'18	-2.6m
opposition	-4830 Jul 19 j 15:51	18°♐13'07	-6°23'13
direct	-4830 Aug 20 j 01:18	12°♐14'50	
	-4830 Oct 19 j 11:04	0°♑	
	-4830 Dec 13 j 09:53	0°♒	
asc. node	-4829 Jan 24 j 05:58	25°♒02'00	
	-4829 Feb 01 j 09:57	0°♓	
	-4829 Mar 22 j 05:50	0°♈	
	-4829 May 09 j 06:10	0°♉	
evening set	-4829 May 28 j 06:47	12°♉05'11	
max. Earth dist.	-4829 Jun 25 j 02:44	0°♊02'44	2.62866 AU
	-4829 Jun 25 j 01:03	0°♊	
conjunction	-4829 Jul 14 j 03:54	12°♊33'53	1°09'43
minimum elong	-4829 Jul 14 j 03:18	12°♊32'54	1°09'57
	-4829 Aug 09 j 04:12	0°♋	
morning rise	-4829 Aug 29 j 18:42	14°♋06'42	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4829 Sep 21 j 12:11	0°♌	
	-4829 Nov 02 j 05:00	0°♍	
	-4829 Dec 12 j 16:21	0°♎	
	-4828 Jan 21 j 12:54	0°♏	
desc. node	-4828 Jan 24 j 16:56	2°♏23'12	
	-4828 Mar 01 j 16:24	0°♐	
	-4828 Apr 12 j 16:26	0°♑	
	-4828 May 30 j 10:43	0°♒	
retrograde	-4828 Aug 03 j 00:01	21°♒33'29	
min. Earth dist.	-4828 Sep 03 j 23:59	14°♒37'51	0.55002 AU
opposition	-4828 Sep 10 j 19:04	12°♒00'56	-3°44'45
greatest brilliancy	-4828 Sep 09 j 23:12	12°♒20'05	-1.9m
direct	-4828 Oct 16 j 11:17	4°♒00'43	
asc. node	-4828 Dec 11 j 05:52	18°♒41'22	
	-4827 Jan 04 j 02:06	0°♓	
	-4827 Feb 27 j 19:13	0°♈	
	-4827 Apr 18 j 23:28	0°♉	
	-4827 Jun 05 j 12:23	0°♊	
evening set	-4827 Jul 06 j 06:43	20°♊17'07	
	-4827 Jul 20 j 14:58	0°♋	
max. Earth dist.	-4827 Jul 23 j 14:10	2°♋01'50	2.53876 AU
conjunction	-4827 Aug 24 j 18:11	24°♋30'52	1°01'58
minimum elong	-4827 Aug 24 j 19:41	24°♋33'32	1°02'12
	-4827 Sep 01 j 10:12	0°♌	
	-4827 Oct 12 j 06:18	0°♍	
morning rise	-4827 Oct 16 j 05:05	2°♍57'54	
	-4827 Nov 20 j 16:51	0°♎	
desc. node	-4827 Dec 11 j 14:05	16°♎08'21	
	-4827 Dec 29 j 11:03	0°♏	
	-4826 Feb 06 j 08:45	0°♐	
	-4826 Mar 18 j 09:26	0°♑	
	-4826 Apr 29 j 19:28	0°♒	
	-4826 Jun 16 j 01:06	0°♓	
	-4826 Aug 23 j 14:49	0°♈	
retrograde	-4826 Sep 10 j 10:02	1°♈58'09	
	-4826 Sep 27 j 07:55	30°℞♓	
min. Earth dist.	-4826 Oct 17 j 04:19	23°♓19'30	0.63994 AU
opposition	-4826 Oct 20 j 10:24	22°♓01'08	-0°21'00
greatest brilliancy	-4826 Oct 20 j 09:35	22°♓01'57	-1.5m
asc. node	-4826 Oct 29 j 07:54	18°♓34'19	
direct	-4826 Nov 28 j 06:12	12°♓48'33	
	-4825 Jan 29 j 17:15	0°♈	
	-4825 Mar 28 j 06:02	0°♉	
	-4825 May 16 j 22:34	0°♊	
	-4825 Jul 01 j 16:22	0°♋	
	-4825 Aug 13 j 10:48	0°♌	
evening set	-4825 Aug 21 j 23:26	6°♌11'52	
max. Earth dist.	-4825 Sep 11 j 01:11	21°♌03'02	2.41697 AU
	-4825 Sep 22 j 22:15	0°♍	
conjunction	-4825 Oct 17 j 18:08	19°♍01'31	0°08'29
minimum elong	-4825 Oct 17 j 18:47	19°♍02'47	0°08'32
behind sun begin	-4825 Oct 16 j 20:38	18°♍19'57	
behind sun end	-4825 Oct 18 j 16:56	19°♍45'38	
desc. node	-4825 Oct 29 j 10:48	28°♍06'27	
	-4825 Oct 31 j 21:05	0°♎	
	-4825 Dec 09 j 03:35	0°♏	
morning rise	-4825 Dec 20 j 23:45	9°♏17'02	
	-4824 Jan 16 j 14:44	0°♐	
	-4824 Feb 25 j 03:29	0°♑	
	-4824 Apr 06 j 14:03	0°♒	
	-4824 May 20 j 20:04	0°♓	
	-4824 Jul 08 j 14:41	0°♈	
	-4824 Sep 09 j 10:10	0°♉	
asc. node	-4824 Sep 15 j 10:01	1°♉53'28	
retrograde	-4824 Oct 14 j 06:23	6°♉30'44	
	-4824 Nov 15 j 04:00	30°℞♈	
opposition	-4824 Nov 23 j 02:11	26°♈53'48	2°27'01
greatest brilliancy	-4824 Nov 23 j 01:54	26°♈54'05	-1.3m
min. Earth dist.	-4824 Nov 23 j 14:10	26°♈41'49	0.67098 AU
direct	-4823 Jan 02 j 18:49	17°♈02'51	
	-4823 Feb 24 j 06:36	0°♉	
	-4823 Apr 23 j 11:51	0°♊	
	-4823 Jun 10 j 09:18	0°♋	
	-4823 Jul 23 j 18:51	0°♌	
	-4823 Sep 02 j 08:17	0°♍	
desc. node	-4823 Sep 15 j 07:41	9°♍54'47	
	-4823 Oct 11 j 04:32	0°♎	
evening set	-4823 Oct 20 j 06:20	7°♎06'55	
	-4823 Nov 18 j 07:58	0°♏	
conjunction	-4823 Dec 24 j 10:38	28°♏14'05	-1°00'06
minimum elong	-4823 Dec 24 j 07:53	28°♏08'46	1°00'16
	-4823 Dec 26 j 17:24	0°♐	
	-4822 Feb 04 j 05:27	0°♑	
max. Earth dist.	-4822 Feb 10 j 23:04	4°♑59'32	2.42016 AU
morning rise	-4822 Feb 28 j 03:06	17°♑32'39	
	-4822 Mar 17 j 12:53	0°♒	
	-4822 Apr 30 j 03:22	0°♓	
	-4822 Jun 15 j 10:59	0°♈	
asc. node	-4822 Aug 03 j 09:53	29°♈21'08	
	-4822 Aug 04 j 13:18	0°♉	
	-4822 Oct 04 j 00:07	0°♊	
retrograde	-4822 Nov 19 j 15:03	10°♊36'00	
opposition	-4822 Dec 28 j 04:20	1°♊43'15	4°30'33
greatest brilliancy	-4822 Dec 28 j 18:23	1°♊29'33	-1.4m
min. Earth dist.	-4821 Jan 01 j 11:44	0°♊02'32	0.63871 AU
	-4821 Jan 01 j 14:21	30°℞♉	
direct	-4821 Feb 07 j 08:51	21°♉43'35	
	-4821 Mar 18 j 23:25	0°♊	
	-4821 May 17 j 04:15	0°♋	
	-4821 Jul 02 j 02:43	0°♌	
desc. node	-4821 Aug 03 j 05:19	23°♌03'30	
	-4821 Aug 12 j 13:14	0°♍	
	-4821 Sep 20 j 18:31	0°♎	
	-4821 Oct 29 j 03:57	0°♏	
	-4821 Dec 06 j 19:45	0°♐	
evening set	-4821 Dec 27 j 08:36	15°♐37'04	
	-4820 Jan 15 j 15:12	0°♑	
conjunction	-4820 Feb 25 j 10:04	29°♑25'51	-0°58'05
minimum elong	-4820 Feb 25 j 12:05	29°♑29'24	0°58'17
	-4820 Feb 26 j 05:27	0°♒	
max. Earth dist.	-4820 Mar 30 j 18:14	23°♒09'50	2.54736 AU
	-4820 Apr 09 j 21:30	0°♓	
morning rise	-4820 Apr 20 j 23:34	7°♓23'37	
	-4820 May 25 j 14:55	0°♈	
asc. node	-4820 Jun 20 j 08:05	16°♈20'19	
	-4820 Jul 12 j 06:53	0°♉	
	-4820 Aug 31 j 09:10	0°♊	
	-4820 Oct 26 j 13:13	0°♋	
retrograde	-4819 Jan 01 j 05:46	19°♋17'34	
opposition	-4819 Feb 06 j 06:07	11°♋38'51	5°17'28
greatest brilliancy	-4819 Feb 07 j 16:13	11°♋07'48	-1.9m
min. Earth dist.	-4819 Feb 14 j 00:31	8°♋49'32	0.54513 AU
direct	-4819 Mar 17 j 22:07	2°♋22'17	
	-4819 Jun 02 j 06:20	0°♌	
desc. node	-4819 Jun 20 j 05:53	11°♌08'02	
	-4819 Jul 18 j 02:01	0°♍	
	-4819 Aug 28 j 01:12	0°♎	
	-4819 Oct 06 j 12:02	0°♏	
	-4819 Nov 15 j 00:24	0°♐	
	-4819 Dec 25 j 14:41	0°♑	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4818 Feb 05 j 21:42	0°♒		
evening set	-4818 Feb 20 j 01:44	9°♒45'37		
	-4818 Mar 22 j 01:58	0°♓		
conjunction	-4818 Apr 13 j 09:52	14°♓43'54	-0°14'06	
minimum elong	-4818 Apr 13 j 10:28	14°♓44'54	0°14'11	
behind sun begin	-4818 Apr 13 j 01:16	14°♓29'51		
behind sun end	-4818 Apr 13 j 19:41	14°♓59'57		
max. Earth dist.	-4818 Apr 28 j 22:21	24°♓50'10	2.63517 AU	
	-4818 May 06 j 22:00	0°♈		
asc. node	-4818 May 08 j 04:04	0°♈48'30		
morning rise	-4818 Jun 01 j 06:08	16°♈15'05		
	-4818 Jun 22 j 21:16	0°♉		
	-4818 Aug 09 j 12:44	0°♊		
	-4818 Sep 26 j 22:02	0°♋		
	-4818 Nov 16 j 07:39	0°♌		
	-4817 Jan 14 j 03:59	0°♍		
retrograde	-4817 Mar 03 j 08:21	11°♍34'11		
opposition	-4817 Apr 04 j 07:21	5°♍51'44	2°18'02	
greatest brilliancy	-4817 Apr 05 j 00:44	5°♍38'40	-2.6m	
min. Earth dist.	-4817 Apr 11 j 08:06	3°♍45'45	0.41833 AU	
	-4817 Apr 27 j 13:40	30°℞♌		
direct	-4817 May 08 j 12:21	29°♌10'16		
desc. node	-4817 May 08 j 07:44	29°♌10'17		
	-4817 May 19 j 14:07	0°♍		
	-4817 Jul 26 j 14:40	0°♎		
	-4817 Sep 09 j 14:58	0°♏		
	-4817 Oct 22 j 04:37	0°♐		
	-4817 Dec 03 j 21:35	0°♑		
	-4816 Jan 16 j 17:57	0°♒		
	-4816 Mar 02 j 00:26	0°♓		
asc. node	-4816 Mar 24 j 23:51	14°♓54'44		
evening set	-4816 Apr 04 j 05:28	21°♓30'15		
	-4816 Apr 17 j 11:16	0°♈		
conjunction	-4816 May 22 j 09:16	22°♈17'49	0°31'42	
minimum elong	-4816 May 22 j 08:13	22°♈16'07	0°31'47	
max. Earth dist.	-4816 May 22 j 04:57	22°♈10'55	2.67002 AU	
	-4816 Jun 03 j 11:10	0°♉		
morning rise	-4816 Jul 07 j 04:38	21°♉34'41		
	-4816 Jul 20 j 06:46	0°♊		
	-4816 Sep 04 j 10:46	0°♋		
	-4816 Oct 19 j 21:13	0°♌		
	-4816 Dec 03 j 21:34	0°♍		
	-4815 Jan 18 j 06:25	0°♎		
	-4815 Mar 07 j 11:20	0°♏		
desc. node	-4815 Mar 25 j 09:20	9°♏48'03		
retrograde	-4815 May 20 j 09:00	26°♏47'35		
min. Earth dist.	-4815 Jun 16 j 10:31	22°♏20'37	0.38936 AU	
greatest brilliancy	-4815 Jun 20 j 09:09	21°♏13'54	-2.8m	
opposition	-4815 Jun 21 j 09:52	20°♏56'23	-5°40'18	
direct	-4815 Jul 21 j 10:29	15°♏44'51		
	-4815 Sep 11 j 12:56	0°♐		
	-4815 Nov 05 j 04:44	0°♑		
	-4815 Dec 23 j 21:42	0°♒		
asc. node	-4814 Feb 09 j 21:53	0°♓05'39		
	-4814 Feb 09 j 18:16	0°♓		
	-4814 Mar 29 j 14:42	0°♈		
evening set	-4814 May 13 j 08:58	28°♈12'38		
	-4814 May 16 j 04:39	0°♉		
max. Earth dist.	-4814 Jun 15 j 09:14	19°♉18'23	2.65064 AU	
conjunction	-4814 Jun 29 j 02:46	28°♉11'43	1°03'32	
minimum elong	-4814 Jun 29 j 01:42	28°♉09'58	1°03'44	
	-4814 Jul 01 j 21:20	0°♊		
morning rise	-4814 Aug 13 j 20:11	28°♊25'01		
	-4814 Aug 16 j 04:36	0°♋		
	-4814 Sep 28 j 21:47	0°♌		
	-4814 Nov 10 j 04:10	0°♍		
	-4814 Dec 21 j 08:10	0°♎		
	-4813 Jan 31 j 00:32	0°♏		
desc. node	-4813 Feb 10 j 10:03	7°♏38'33		
	-4813 Mar 13 j 07:28	0°♐		
	-4813 Apr 26 j 17:35	0°♑		
	-4813 Jun 28 j 09:51	0°♒		
retrograde	-4813 Jul 17 j 13:15	2°♒29'34		
	-4813 Aug 05 j 03:01	30°℞♑		
min. Earth dist.	-4813 Aug 16 j 09:29	26°♑24'58	0.50243 AU	
greatest brilliancy	-4813 Aug 22 j 22:09	24°♑01'05	-2.1m	
opposition	-4813 Aug 24 j 04:59	23°♑32'41	-5°04'43	
direct	-4813 Sep 27 j 06:31	16°♑14'15		
	-4813 Nov 19 j 07:40	0°♒		
asc. node	-4813 Dec 28 j 21:27	19°♒33'51		
	-4812 Jan 16 j 19:54	0°♓		
	-4812 Mar 08 j 06:51	0°♈		
	-4812 Apr 26 j 09:01	0°♉		
	-4812 Jun 12 j 12:48	0°♊		
evening set	-4812 Jun 20 j 06:12	5°♊02'27		
max. Earth dist.	-4812 Jul 11 j 02:56	18°♊51'37	2.57942 AU	
	-4812 Jul 27 j 14:40	0°♋		
conjunction	-4812 Aug 07 j 06:45	7°♋19'07	1°09'43	
minimum elong	-4812 Aug 07 j 07:23	7°♋20'13	1°09'57	
	-4812 Sep 08 j 13:54	0°♌		
morning rise	-4812 Sep 25 j 17:11	12°♌21'23		
	-4812 Oct 19 j 16:51	0°♍		
	-4812 Nov 28 j 11:13	0°♎		
desc. node	-4812 Dec 28 j 08:46	22°♎56'12		
	-4811 Jan 06 j 13:07	0°♏		
	-4811 Feb 14 j 18:32	0°♐		
	-4811 Mar 27 j 05:33	0°♑		
	-4811 May 09 j 14:56	0°♒		
	-4811 Jun 29 j 14:10	0°♓		
retrograde	-4811 Aug 27 j 06:01	17°♓30'38		
min. Earth dist.	-4811 Oct 01 j 07:18	9°♓27'18	0.61132 AU	
opposition	-4811 Oct 05 j 23:51	7°♓35'14	-1°36'43	
greatest brilliancy	-4811 Oct 05 j 17:56	7°♓41'08	-1.6m	
	-4811 Oct 30 j 01:15	30°℞♒		
direct	-4811 Nov 12 j 18:01	28°♒45'50		
asc. node	-4811 Nov 14 j 22:25	28°♒47'38		
	-4811 Nov 27 j 03:51	0°♓		
	-4810 Feb 11 j 13:39	0°♈		
	-4810 Apr 05 j 21:41	0°♉		
	-4810 May 24 j 11:54	0°♊		
	-4810 Jul 08 j 21:49	0°♋		
evening set	-4810 Aug 02 j 13:45	17°♋06'12		
max. Earth dist.	-4810 Aug 17 j 19:56	27°♋58'17	2.46550 AU	
	-4810 Aug 20 j 15:31	0°♌		
conjunction	-4810 Sep 24 j 20:11	25°♌56'12	0°34'59	
minimum elong	-4810 Sep 24 j 22:08	25°♌59'52	0°35'07	
	-4810 Sep 30 j 05:39	0°♍		
	-4810 Nov 08 j 08:15	0°♎		
desc. node	-4810 Nov 15 j 04:57	5°♎20'16		
morning rise	-4810 Nov 23 j 03:42	11°♎32'06		
	-4810 Dec 16 j 18:21	0°♏		
	-4809 Jan 24 j 08:23	0°♐		
	-4809 Mar 04 j 23:39	0°♑		
	-4809 Apr 15 j 15:02	0°♒		
	-4809 May 30 j 12:10	0°♓		
	-4809 Jul 20 j 18:40	0°♈		
retrograde	-4809 Oct 01 j 19:24	23°♈33'27		
asc. node	-4809 Oct 03 j 00:37	23°♈32'53		
opposition	-4809 Nov 10 j 20:13	13°♈45'22	1°26'42	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

min. Earth dist.	-4809 Nov 09 j 20:43	14°♈08'58	0.66636 AU
greatest brilliancy	-4809 Nov 10 j 18:13	13°♈47'22	-1.4m
direct	-4809 Dec 20 j 22:55	4°♈06'00	
	-4808 Mar 10 j 09:24	0°♉	
	-4808 May 02 j 13:08	0°♊	
	-4808 Jun 18 j 07:40	0°♋	
	-4808 Jul 31 j 08:59	0°♌	
	-4808 Sep 09 j 20:29	0°♍	
evening set	-4808 Sep 24 j 20:25	11°♍28'28	
desc. node	-4808 Oct 02 j 02:00	17°♍03'38	
	-4808 Oct 18 j 16:42	0°♎	
	-4808 Nov 25 j 20:18	0°♏	
conjunction	-4808 Nov 26 j 18:01	0°♏42'44	-0°38'28
minimum elong	-4808 Nov 26 j 14:57	0°♏36'42	0°38'33
max. Earth dist.	-4808 Dec 19 j 12:57	18°♏35'14	2.37942 AU
	-4807 Jan 03 j 05:24	0°♐	
morning rise	-4807 Feb 02 j 12:30	23°♐08'04	
	-4807 Feb 11 j 16:28	0°♑	
	-4807 Mar 24 j 23:22	0°♒	
	-4807 May 07 j 16:35	0°♓	
	-4807 Jun 23 j 13:45	0°♈	
	-4807 Aug 14 j 21:09	0°♉	
asc. node	-4807 Aug 20 j 01:35	2°♉40'41	
retrograde	-4807 Nov 04 j 23:57	27°♉16'44	
opposition	-4807 Dec 14 j 04:28	18°♉03'55	3°48'44
greatest brilliancy	-4807 Dec 14 j 11:29	17°♉56'58	-1.4m
min. Earth dist.	-4807 Dec 17 j 00:01	16°♉57'14	0.65910 AU
direct	-4806 Jan 24 j 08:57	8°♉03'28	
	-4806 Apr 05 j 06:48	0°♊	
	-4806 May 27 j 04:53	0°♋	
	-4806 Jul 10 j 17:57	0°♌	
desc. node	-4806 Aug 20 j 00:26	29°♌28'34	
	-4806 Aug 20 j 17:07	0°♍	
	-4806 Sep 28 j 17:03	0°♎	
	-4806 Nov 05 j 22:36	0°♏	
evening set	-4806 Dec 01 j 11:27	19°♏58'12	
	-4806 Dec 14 j 10:26	0°♐	
	-4805 Jan 23 j 01:25	0°♑	
conjunction	-4805 Feb 02 j 21:51	8°♑00'04	-1°07'19
minimum elong	-4805 Feb 02 j 22:50	8°♑01'53	1°07'34
	-4805 Mar 05 j 11:23	0°♒	
max. Earth dist.	-4805 Mar 17 j 04:54	8°♒13'50	2.50022 AU
morning rise	-4805 Apr 03 j 08:16	20°♒03'07	
	-4805 Apr 18 j 00:55	0°♓	
	-4805 Jun 02 j 20:42	0°♈	
asc. node	-4805 Jul 07 j 23:20	21°♈59'44	
	-4805 Jul 21 j 02:57	0°♉	
	-4805 Sep 11 j 06:46	0°♊	
	-4805 Nov 19 j 19:40	0°♋	
retrograde	-4805 Dec 14 j 21:42	3°♋27'31	
	-4804 Jan 07 j 06:35	30°℞♊	
opposition	-4804 Jan 21 j 02:26	25°♊15'10	5°13'07
greatest brilliancy	-4804 Jan 22 j 05:19	24°♊49'49	-1.7m
min. Earth dist.	-4804 Jan 27 j 15:30	22°♊47'15	0.58859 AU
direct	-4804 Mar 01 j 16:34	15°♊32'23	
	-4804 Apr 23 j 17:32	0°♋	
	-4804 Jun 15 j 00:46	0°♌	
desc. node	-4804 Jul 06 j 23:05	14°♌49'25	
	-4804 Jul 28 j 05:07	0°♍	
	-4804 Sep 06 j 04:48	0°♎	
	-4804 Oct 15 j 01:47	0°♏	
	-4804 Nov 23 j 03:15	0°♐	
	-4803 Jan 02 j 07:40	0°♑	
evening set	-4803 Jan 31 j 02:20	20°♑44'24	
	-4803 Feb 13 j 05:58	0°♒	
conjunction	-4803 Mar 27 j 01:51	28°♒36'47	-0°32'45
minimum elong	-4803 Mar 27 j 03:18	28°♒39'14	0°32'52
	-4803 Mar 29 j 03:34	0°♓	
max. Earth dist.	-4803 Apr 18 j 13:56	13°♓32'29	2.60666 AU
	-4803 May 13 j 20:37	0°♈	
morning rise	-4803 May 17 j 01:29	2°♈03'53	
asc. node	-4803 May 24 j 20:32	7°♈04'26	
	-4803 Jun 29 j 23:21	0°♉	
	-4803 Aug 17 j 06:24	0°♊	
	-4803 Oct 06 j 09:38	0°♋	
	-4803 Dec 01 j 07:49	0°♌	
retrograde	-4802 Feb 04 j 16:32	18°♌53'52	
opposition	-4802 Mar 10 j 06:53	12°♌22'18	4°14'24
greatest brilliancy	-4802 Mar 11 j 16:20	11°♌54'31	-2.3m
min. Earth dist.	-4802 Mar 18 j 16:17	9°♌36'01	0.46666 AU
direct	-4802 Apr 16 j 05:23	4°♌24'23	
desc. node	-4802 May 24 j 23:20	13°♌25'39	
	-4802 Jun 26 j 00:26	0°♍	
	-4802 Aug 10 j 14:18	0°♎	
	-4802 Sep 21 j 01:43	0°♏	
	-4802 Oct 31 j 21:34	0°♐	
	-4802 Dec 12 j 11:32	0°♑	
	-4801 Jan 24 j 12:54	0°♒	
	-4801 Mar 10 j 06:19	0°♓	
evening set	-4801 Mar 19 j 22:20	6°♓21'05	
asc. node	-4801 Apr 11 j 17:08	21°♓10'44	
	-4801 Apr 25 j 09:24	0°♈	
conjunction	-4801 May 08 j 08:39	8°♈19'32	0°14'58
minimum elong	-4801 May 08 j 08:04	8°♈18'37	0°14'59
behind sun begin	-4801 May 08 j 01:52	8°♈08'41	
behind sun end	-4801 May 08 j 14:16	8°♈28'32	
max. Earth dist.	-4801 May 14 j 00:16	11°♈56'34	2.66268 AU
	-4801 Jun 11 j 07:13	0°♉	
morning rise	-4801 Jun 24 j 00:16	8°♉05'58	
	-4801 Jul 28 j 08:04	0°♊	
	-4801 Sep 13 j 03:10	0°♋	
	-4801 Oct 29 j 19:50	0°♌	
	-4801 Dec 16 j 05:39	0°♍	
	-4800 Feb 04 j 23:30	0°♎	
desc. node	-4800 Apr 11 j 01:56	25°♎23'17	
retrograde	-4800 Apr 20 j 03:23	25°♎54'59	
opposition	-4800 May 20 j 17:34	20°♎50'10	-2°58'22
greatest brilliancy	-4800 May 20 j 15:49	20°♎51'21	-2.9m
min. Earth dist.	-4800 May 20 j 21:13	20°♎47'44	0.37737 AU
direct	-4800 Jun 20 j 01:12	15°♎45'33	
	-4800 Aug 09 j 23:09	0°♏	
	-4800 Oct 01 j 12:04	0°♐	
	-4800 Nov 17 j 02:27	0°♑	
	-4799 Jan 02 j 01:48	0°♒	
	-4799 Feb 17 j 14:36	0°♓	
asc. node	-4799 Feb 26 j 13:29	5°♓43'09	
	-4799 Apr 05 j 18:34	0°♈	
evening set	-4799 Apr 28 j 10:18	14°♈21'28	
	-4799 May 23 j 01:11	0°♉	
max. Earth dist.	-4799 Jun 05 j 21:08	8°♉49'44	2.66457 AU
conjunction	-4799 Jun 14 j 10:24	14°♉18'41	0°53'33
minimum elong	-4799 Jun 14 j 09:06	14°♉16'36	0°53'42
	-4799 Jul 08 j 17:35	0°♊	
morning rise	-4799 Jul 29 j 19:53	13°♊47'12	
	-4799 Aug 23 j 06:54	0°♋	
	-4799 Oct 06 j 12:29	0°♌	
	-4799 Nov 18 j 13:33	0°♍	
	-4799 Dec 30 j 18:25	0°♎	
	-4798 Feb 10 j 20:21	0°♏	
desc. node	-4798 Feb 27 j 02:54	11°♏25'11	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4798 Mar 26 j 12:41	0°♐	
	-4798 May 18 j 00:23	0°♑	
retrograde	-4798 Jun 27 j 16:22	10°♑10'49	
min. Earth dist.	-4798 Jul 25 j 12:08	4°♑58'26	0.45220 AU
greatest brilliancy	-4798 Jul 31 j 22:58	2°♑46'52	-2.4m
opposition	-4798 Aug 02 j 13:41	2°♑13'45	-6°07'39
	-4798 Aug 09 j 09:29	30°℞♐	
direct	-4798 Sep 03 j 20:17	25°♐45'46	
	-4798 Sep 30 j 19:04	0°♑	
	-4798 Dec 05 j 16:18	0°♒	
asc. node	-4797 Jan 14 j 12:14	22°♒49'30	
	-4797 Jan 26 j 14:37	0°♓	
	-4797 Mar 17 j 04:32	0°♈	
	-4797 May 04 j 12:53	0°♉	
evening set	-4797 Jun 05 j 21:12	20°♉34'06	
	-4797 Jun 20 j 10:51	0°♊	
max. Earth dist.	-4797 Jul 01 j 01:58	6°♊57'16	2.61316 AU
conjunction	-4797 Jul 23 j 00:48	21°♊32'03	1°11'15
minimum elong	-4797 Jul 23 j 00:36	21°♊31'44	1°11'29
	-4797 Aug 04 j 13:44	0°♋	
morning rise	-4797 Sep 08 j 10:35	24°♋06'45	
	-4797 Sep 16 j 18:32	0°♌	
	-4797 Oct 28 j 06:05	0°♍	
	-4797 Dec 07 j 10:37	0°♎	
desc. node	-4796 Jan 15 j 01:58	29°♎19'41	
	-4796 Jan 15 j 23:10	0°♏	
	-4796 Feb 24 j 16:37	0°♐	
	-4796 Apr 05 j 22:09	0°♑	
	-4796 May 21 j 07:16	0°♒	
	-4796 Jul 26 j 19:38	0°♓	
retrograde	-4796 Aug 12 j 04:58	1°♓46'07	
	-4796 Aug 27 j 21:56	30°℞♒	
min. Earth dist.	-4796 Sep 14 j 08:25	24°♒24'15	0.57414 AU
opposition	-4796 Sep 20 j 10:07	22°♒01'46	-2°57'17
greatest brilliancy	-4796 Sep 19 j 20:04	22°♒15'31	-1.8m
direct	-4796 Oct 26 j 21:44	13°♒41'48	
asc. node	-4796 Dec 01 j 12:46	20°♒25'09	
	-4796 Dec 25 j 16:06	0°♓	
	-4795 Feb 21 j 19:15	0°♈	
	-4795 Apr 13 j 21:25	0°♉	
	-4795 May 31 j 18:43	0°♊	
evening set	-4795 Jul 15 j 19:06	29°♊51'06	
	-4795 Jul 16 j 00:19	0°♋	
max. Earth dist.	-4795 Jul 31 j 17:25	10°♋49'47	2.51403 AU
	-4795 Aug 27 j 19:26	0°♌	
conjunction	-4795 Sep 04 j 09:05	5°♌28'09	0°54'22
minimum elong	-4795 Sep 04 j 10:57	5°♌31'34	0°54'34
	-4795 Oct 07 j 13:44	0°♍	
morning rise	-4795 Oct 28 j 23:41	16°♍14'15	
	-4795 Nov 15 j 21:22	0°♎	
desc. node	-4795 Dec 02 j 00:30	12°♎30'03	
	-4795 Dec 24 j 12:05	0°♏	
	-4794 Feb 01 j 06:07	0°♐	
	-4794 Mar 13 j 01:45	0°♑	
	-4794 Apr 24 j 01:52	0°♒	
	-4794 Jun 09 j 02:18	0°♓	
	-4794 Aug 05 j 04:39	0°♈	
retrograde	-4794 Sep 18 j 08:20	10°♈18'28	
asc. node	-4794 Oct 19 j 14:02	3°♈52'13	
min. Earth dist.	-4794 Oct 25 j 23:20	1°♈22'02	0.65207 AU
opposition	-4794 Oct 28 j 09:50	0°♈23'14	0°20'26
greatest brilliancy	-4794 Oct 28 j 08:59	0°♈24'05	-1.5m
	-4794 Oct 29 j 08:57	30°℞♓	
direct	-4794 Dec 06 j 17:39	20°♓59'41	
	-4793 Jan 18 j 10:25	0°♈	
	-4793 Mar 22 j 02:05	0°♉	
	-4793 May 11 j 18:42	0°♊	
	-4793 Jun 26 j 20:52	0°♋	
	-4793 Aug 08 j 18:02	0°♌	
evening set	-4793 Sep 02 j 20:57	18°♌26'17	
	-4793 Sep 18 j 05:59	0°♍	
max. Earth dist.	-4793 Oct 01 j 04:42	9°♍52'40	2.39368 AU
desc. node	-4793 Oct 19 j 20:53	24°♍18'33	
	-4793 Oct 27 j 04:07	0°♎	
conjunction	-4793 Oct 31 j 20:13	3°♎39'04	-0°08'43
minimum elong	-4793 Oct 31 j 19:29	3°♎37'39	0°08'43
behind sun begin	-4793 Oct 30 j 20:37	2°♎52'56	
behind sun end	-4793 Nov 01 j 18:22	4°♎22'24	
	-4793 Dec 04 j 09:26	0°♏	
morning rise	-4792 Jan 06 j 05:03	25°♏39'54	
	-4792 Jan 11 j 19:23	0°♐	
	-4792 Feb 20 j 06:32	0°♑	
	-4792 Apr 01 j 14:07	0°♒	
	-4792 May 15 j 12:54	0°♓	
	-4792 Jul 02 j 08:33	0°♈	
	-4792 Aug 28 j 02:26	0°♉	
asc. node	-4792 Sep 05 j 15:31	3°♉36'11	
retrograde	-4792 Oct 22 j 02:15	14°♉20'31	
opposition	-4792 Nov 30 j 17:39	4°♉51'15	2°59'08
greatest brilliancy	-4792 Nov 30 j 19:24	4°♉49'30	-1.3m
min. Earth dist.	-4792 Dec 02 j 01:32	4°♉19'29	0.66949 AU
	-4792 Dec 13 j 11:14	30°℞♈	
direct	-4791 Jan 10 j 15:57	24°♈55'26	
	-4791 Feb 10 j 11:22	0°♉	
	-4791 Apr 17 j 01:06	0°♊	
	-4791 Jun 05 j 01:06	0°♋	
	-4791 Jul 18 j 19:17	0°♌	
	-4791 Aug 28 j 12:03	0°♍	
desc. node	-4791 Sep 05 j 17:29	6°♍15'34	
	-4791 Oct 06 j 09:28	0°♎	
evening set	-4791 Nov 04 j 09:06	22°♎46'32	
	-4791 Nov 13 j 13:18	0°♏	
	-4791 Dec 21 j 23:07	0°♐	
conjunction	-4790 Jan 08 j 15:43	13°♐34'16	-1°06'29
minimum elong	-4790 Jan 08 j 14:17	13°♐31'33	1°06'42
	-4790 Jan 30 j 11:30	0°♑	
max. Earth dist.	-4790 Feb 25 j 23:56	19°♑25'58	2.44879 AU
	-4790 Mar 12 j 18:45	0°♒	
morning rise	-4790 Mar 13 j 06:48	0°♒21'19	
	-4790 Apr 25 j 07:31	0°♓	
	-4790 Jun 10 j 08:34	0°♈	
asc. node	-4790 Jul 24 j 15:41	27°♈07'11	
	-4790 Jul 29 j 13:30	0°♉	
	-4790 Sep 23 j 12:40	0°♊	
retrograde	-4790 Nov 28 j 10:35	18°♊56'33	
opposition	-4789 Jan 05 j 13:47	10°♊16'45	4°49'49
greatest brilliancy	-4789 Jan 06 j 08:20	9°♊58'51	-1.5m
min. Earth dist.	-4789 Jan 10 j 16:50	8°♊18'02	0.62355 AU
direct	-4789 Feb 15 j 15:39	0°♊20'20	
	-4789 May 09 j 21:18	0°♋	
	-4789 Jun 26 j 07:20	0°♌	
desc. node	-4789 Jul 24 j 16:14	20°♌01'51	
	-4789 Aug 07 j 05:43	0°♍	
	-4789 Sep 15 j 16:19	0°♎	
	-4789 Oct 24 j 04:45	0°♏	
	-4789 Dec 01 j 22:53	0°♐	
evening set	-4788 Jan 09 j 23:14	29°♐21'05	
	-4788 Jan 10 j 20:21	0°♑	
	-4788 Feb 21 j 12:13	0°♒	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

conjunction	-4788 Mar 08 j 02:43	10°♒52'26	-0°49'51
minimum elong	-4788 Mar 08 j 04:44	10°♒55'56	0°50'01
	-4788 Apr 05 j 05:12	0°♓	
max. Earth dist.	-4788 Apr 07 j 01:10	1°♓13'41	2.57060 AU
morning rise	-4788 Apr 30 j 20:26	16°♓59'14	
	-4788 May 20 j 21:15	0°♈	
asc. node	-4788 Jun 10 j 13:02	13°♈12'23	
	-4788 Jul 07 j 06:39	0°♉	
	-4788 Aug 25 j 13:02	0°♊	
	-4788 Oct 17 j 15:46	0°♋	
retrograde	-4787 Jan 12 j 20:37	29°♋36'21	
opposition	-4787 Feb 17 j 01:17	22°♋19'31	5°06'31
greatest brilliancy	-4787 Feb 18 j 13:30	21°♋47'21	-2.0m
min. Earth dist.	-4787 Feb 25 j 06:24	19°♋25'06	0.51821 AU
direct	-4787 Mar 27 j 22:50	13°♋24'57	
	-4787 May 22 j 14:24	0°♌	
desc. node	-4787 Jun 10 j 16:15	10°♌36'17	
	-4787 Jul 10 j 22:15	0°♍	
	-4787 Aug 21 j 22:14	0°♎	
	-4787 Sep 30 j 21:21	0°♏	
	-4787 Nov 09 j 17:59	0°♐	
	-4787 Dec 20 j 14:28	0°♑	
	-4786 Feb 01 j 02:06	0°♒	
evening set	-4786 Mar 02 j 14:03	20°♒06'04	
	-4786 Mar 17 j 09:41	0°♓	
conjunction	-4786 Apr 22 j 17:40	23°♓49'08	-0°03'16
minimum elong	-4786 Apr 22 j 17:50	23°♓49'23	0°03'19
behind sun begin	-4786 Apr 21 j 21:42	23°♓16'47	
behind sun end	-4786 Apr 23 j 13:57	24°♓21'58	
asc. node	-4786 Apr 28 j 09:23	27°♓28'41	
	-4786 May 02 j 07:10	0°♈	
max. Earth dist.	-4786 May 04 j 16:00	1°♈31'35	2.64724 AU
morning rise	-4786 Jun 09 j 15:52	24°♈33'46	
	-4786 Jun 18 j 05:02	0°♉	
	-4786 Aug 04 j 14:07	0°♊	
	-4786 Sep 21 j 06:38	0°♋	
	-4786 Nov 08 j 22:24	0°♌	
	-4786 Dec 31 j 04:46	0°♍	
retrograde	-4785 Mar 20 j 11:07	26°♍44'16	
opposition	-4785 Apr 20 j 11:06	21°♍26'03	0°36'05
greatest brilliancy	-4785 Apr 20 j 15:01	21°♍23'17	-2.8m
min. Earth dist.	-4785 Apr 25 j 17:05	19°♍57'29	0.39676 AU
desc. node	-4785 Apr 28 j 17:12	19°♍08'23	
direct	-4785 May 23 j 01:05	15°♍29'03	
	-4785 Jul 12 j 14:28	0°♎	
	-4785 Sep 01 j 02:27	0°♏	
	-4785 Oct 15 j 10:57	0°♐	
	-4785 Nov 28 j 02:44	0°♑	
	-4784 Jan 11 j 12:45	0°♒	
	-4784 Feb 26 j 03:48	0°♓	
asc. node	-4784 Mar 15 j 06:04	11°♓41'48	
	-4784 Apr 12 j 19:27	0°♈	
evening set	-4784 Apr 13 j 04:19	0°♈14'09	
max. Earth dist.	-4784 May 27 j 13:53	28°♈32'00	2.67047 AU
	-4784 May 29 j 21:04	0°♉	
conjunction	-4784 May 30 j 19:24	0°♉35'36	0°40'27
minimum elong	-4784 May 30 j 18:10	0°♉33'39	0°40'33
morning rise	-4784 Jul 15 j 08:06	29°♉48'19	
	-4784 Jul 15 j 15:19	0°♊	
	-4784 Aug 30 j 13:33	0°♋	
	-4784 Oct 14 j 12:21	0°♌	
	-4784 Nov 27 j 16:17	0°♍	
	-4783 Jan 10 j 13:10	0°♎	
	-4783 Feb 24 j 09:38	0°♏	
desc. node	-4783 Mar 15 j 20:35	12°♏17'01	
	-4783 Apr 16 j 13:31	0°♐	
retrograde	-4783 Jun 04 j 11:42	13°♐51'23	
min. Earth dist.	-4783 Jul 01 j 04:16	9°♐18'11	0.40728 AU
greatest brilliancy	-4783 Jul 06 j 11:23	7°♐42'03	-2.7m
opposition	-4783 Jul 07 j 22:09	7°♐15'29	-6°18'35
direct	-4783 Aug 07 j 15:22	1°♐40'32	
	-4783 Oct 26 j 21:30	0°♑	
	-4783 Dec 17 j 09:54	0°♒	
asc. node	-4782 Jan 31 j 03:20	27°♒23'52	
	-4782 Feb 04 j 08:26	0°♓	
	-4782 Mar 24 j 17:07	0°♈	
	-4782 May 11 j 12:48	0°♉	
evening set	-4782 May 21 j 21:55	6°♉35'10	
max. Earth dist.	-4782 Jun 21 j 01:23	25°♉56'26	2.63957 AU
	-4782 Jun 27 j 07:19	0°♊	
conjunction	-4782 Jul 07 j 15:58	6°♊46'30	1°07'36
minimum elong	-4782 Jul 07 j 15:08	6°♊45'08	1°07'50
	-4782 Aug 11 j 13:04	0°♋	
morning rise	-4782 Aug 22 j 19:10	7°♋38'38	
	-4782 Sep 24 j 01:55	0°♌	
	-4782 Nov 05 j 01:14	0°♍	
	-4782 Dec 15 j 20:03	0°♎	
	-4781 Jan 25 j 00:25	0°♏	
desc. node	-4781 Jan 31 j 20:54	5°♏06'51	
	-4781 Mar 06 j 13:37	0°♐	
	-4781 Apr 18 j 07:01	0°♑	
	-4781 Jun 07 j 22:39	0°♒	
retrograde	-4781 Jul 27 j 18:39	14°♒05'56	
min. Earth dist.	-4781 Aug 27 j 19:05	7°♒32'42	0.52919 AU
greatest brilliancy	-4781 Sep 03 j 01:56	5°♒10'14	-2.0m
opposition	-4781 Sep 04 j 02:30	4°♒46'56	-4°19'51
	-4781 Sep 18 j 05:05	30°℞♑	
direct	-4781 Oct 09 j 02:25	27°♑04'16	
	-4781 Oct 31 j 11:08	0°♒	
asc. node	-4781 Dec 19 j 02:48	18°♒58'40	
	-4780 Jan 09 j 14:56	0°♓	
	-4780 Mar 02 j 18:07	0°♈	
	-4780 Apr 21 j 10:54	0°♉	
	-4780 Jun 07 j 20:44	0°♊	
evening set	-4780 Jun 29 j 07:37	14°♊04'05	
max. Earth dist.	-4780 Jul 18 j 02:18	26°♊39'48	2.55778 AU
	-4780 Jul 23 j 00:07	0°♋	
conjunction	-4780 Aug 17 j 01:18	17°♋19'48	1°06'05
minimum elong	-4780 Aug 17 j 02:27	17°♋21'49	1°06'19
	-4780 Sep 03 j 22:08	0°♌	
morning rise	-4780 Oct 07 j 00:18	24°♌07'12	
	-4780 Oct 14 j 22:03	0°♍	
	-4780 Nov 23 j 12:34	0°♎	
desc. node	-4780 Dec 18 j 18:09	19°♎26'13	
	-4779 Jan 01 j 10:03	0°♏	
	-4779 Feb 09 j 10:33	0°♐	
	-4779 Mar 21 j 14:14	0°♑	
	-4779 May 03 j 06:43	0°♒	
	-4779 Jun 20 j 13:25	0°♓	
retrograde	-4779 Sep 04 j 11:52	26°♓21'08	
min. Earth dist.	-4779 Oct 10 j 12:16	17°♓57'18	0.62816 AU
opposition	-4779 Oct 14 j 09:23	16°♓24'01	-0°52'09
greatest brilliancy	-4779 Oct 14 j 06:47	16°♓26'38	-1.6m
asc. node	-4779 Nov 05 j 04:48	9°♓09'16	
direct	-4779 Nov 21 j 17:46	7°♓21'03	
	-4778 Feb 03 j 18:20	0°♈	
	-4778 Mar 31 j 06:57	0°♉	
	-4778 May 19 j 12:54	0°♊	
	-4778 Jul 04 j 04:36	0°♋	
evening set	-4778 Aug 13 j 08:08	28°♋05'04	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4778 Aug 15 j 23:57	0°♌	
max. Earth dist.	-4778 Aug 30 j 04:29	10°♌19'52	2.43834 AU
	-4778 Sep 25 j 13:30	0°♍	
conjunction	-4778 Oct 07 j 10:36	9°♍01'54	0°20'41
minimum elong	-4778 Oct 07 j 12:01	9°♍04'36	0°20'46
	-4778 Nov 03 j 14:31	0°♎	
desc. node	-4778 Nov 05 j 15:12	1°♎34'48	
morning rise	-4778 Dec 08 j 13:17	27°♎20'47	
	-4778 Dec 11 j 22:30	0°♏	
	-4777 Jan 19 j 10:23	0°♐	
	-4777 Feb 27 j 23:13	0°♑	
	-4777 Apr 10 j 10:04	0°♒	
	-4777 May 24 j 19:47	0°♓	
	-4777 Jul 13 j 07:46	0°♈	
asc. node	-4777 Sep 23 j 07:07	29°♈52'48	
	-4777 Sep 23 j 22:49	0°♉	
retrograde	-4777 Oct 09 j 13:31	1°♉27'46	
	-4777 Oct 24 j 09:58	30°℞♈	
opposition	-4777 Nov 18 j 11:45	21°♈45'31	2°02'33
greatest brilliancy	-4777 Nov 18 j 10:23	21°♈46'53	-1.4m
min. Earth dist.	-4777 Nov 18 j 08:12	21°♈49'05	0.67011 AU
direct	-4777 Dec 28 j 22:14	11°♈59'08	
	-4776 Mar 02 j 00:18	0°♉	
	-4776 Apr 26 j 18:34	0°♊	
	-4776 Jun 13 j 05:20	0°♋	
	-4776 Jul 26 j 12:37	0°♌	
	-4776 Sep 05 j 02:16	0°♍	
desc. node	-4776 Sep 22 j 12:12	13°♍19'27	
evening set	-4776 Oct 08 j 21:36	26°♍02'39	
	-4776 Oct 13 j 23:07	0°♎	
	-4776 Nov 21 j 02:33	0°♏	
conjunction	-4776 Dec 12 j 08:40	16°♏41'12	-0°52'09
minimum elong	-4776 Dec 12 j 05:22	16°♏34'46	0°52'18
	-4776 Dec 29 j 11:15	0°♐	
max. Earth dist.	-4775 Jan 25 j 01:20	20°♐20'53	2.39876 AU
	-4775 Feb 06 j 21:53	0°♑	
morning rise	-4775 Feb 17 j 08:15	7°♑44'01	
	-4775 Mar 20 j 03:33	0°♒	
	-4775 May 02 j 17:31	0°♓	
	-4775 Jun 18 j 04:21	0°♈	
	-4775 Aug 07 j 23:03	0°♉	
asc. node	-4775 Aug 10 j 07:11	1°♉17'13	
	-4775 Oct 12 j 19:10	0°♊	
retrograde	-4775 Nov 13 j 07:01	5°♊17'27	
	-4775 Dec 12 j 04:06	30°℞♉	
opposition	-4775 Dec 22 j 03:33	26°♉15'22	4°13'52
greatest brilliancy	-4775 Dec 22 j 14:22	26°♉04'45	-1.4m
min. Earth dist.	-4775 Dec 25 j 19:16	24°♉49'21	0.64901 AU
direct	-4774 Feb 01 j 08:41	16°♉14'26	
	-4774 Mar 26 j 15:27	0°♊	
	-4774 May 21 j 00:06	0°♋	
	-4774 Jul 05 j 08:16	0°♌	
desc. node	-4774 Aug 10 j 09:19	26°♌05'47	
	-4774 Aug 15 j 14:33	0°♍	
	-4774 Sep 23 j 17:59	0°♎	
	-4774 Nov 01 j 01:34	0°♏	
	-4774 Dec 09 j 15:03	0°♐	
evening set	-4774 Dec 16 j 08:31	5°♐09'42	
	-4773 Jan 18 j 07:35	0°♑	
conjunction	-4773 Feb 15 j 23:47	20°♑54'15	-1°02'58
minimum elong	-4773 Feb 16 j 01:33	20°♑57'25	1°03'12
	-4773 Feb 28 j 18:32	0°♒	
max. Earth dist.	-4773 Mar 25 j 19:33	17°♒25'38	2.52696 AU
	-4773 Apr 13 j 08:05	0°♓	
morning rise	-4773 Apr 14 j 04:45	0°♓34'43	
	-4773 May 29 j 00:55	0°♈	
asc. node	-4773 Jun 28 j 05:32	19°♈05'50	
	-4773 Jul 15 j 21:14	0°♉	
	-4773 Sep 04 j 16:16	0°♊	
	-4773 Nov 03 j 02:42	0°♋	
retrograde	-4773 Dec 25 j 01:49	12°♋42'08	
opposition	-4772 Jan 30 j 15:12	4°♋47'32	5°18'03
greatest brilliancy	-4772 Jan 31 j 22:24	4°♋18'36	-1.8m
min. Earth dist.	-4772 Feb 06 j 21:20	2°♋06'19	0.56553 AU
	-4772 Feb 12 j 22:13	30°℞♊	
direct	-4772 Mar 10 j 18:33	25°♊17'05	
	-4772 Apr 07 j 21:47	0°♋	
	-4772 Jun 07 j 15:01	0°♌	
desc. node	-4772 Jun 27 j 09:14	12°♌48'00	
	-4772 Jul 22 j 02:44	0°♍	
	-4772 Aug 31 j 14:47	0°♎	
	-4772 Oct 09 j 18:37	0°♏	
	-4772 Nov 18 j 01:04	0°♐	
	-4772 Dec 28 j 09:46	0°♑	
	-4771 Feb 08 j 11:30	0°♒	
evening set	-4771 Feb 11 j 17:23	2°♒15'28	
	-4771 Mar 24 j 11:39	0°♓	
conjunction	-4771 Apr 06 j 03:41	8°♓24'50	-0°22'02
minimum elong	-4771 Apr 06 j 04:40	8°♓26'27	0°22'08
max. Earth dist.	-4771 Apr 24 j 16:55	20°♓35'00	2.62353 AU
	-4771 May 09 j 05:15	0°♈	
asc. node	-4771 May 15 j 02:08	3°♈47'03	
morning rise	-4771 May 25 j 20:48	10°♈42'06	
	-4771 Jun 25 j 05:14	0°♉	
	-4771 Aug 12 j 02:30	0°♊	
	-4771 Sep 30 j 03:12	0°♋	
	-4771 Nov 21 j 07:36	0°♌	
	-4770 Feb 02 j 12:56	0°♍	
retrograde	-4770 Feb 19 j 03:21	1°♍37'06	
	-4770 Mar 07 j 06:56	30°℞♌	
opposition	-4770 Mar 23 j 20:37	25°♌32'33	3°17'25
greatest brilliancy	-4770 Mar 24 j 22:39	25°♌12'00	-2.5m
min. Earth dist.	-4770 Mar 31 j 18:39	23°♌03'47	0.43904 AU
direct	-4770 Apr 28 j 08:27	18°♌15'04	
desc. node	-4770 May 15 j 11:12	20°♌11'32	
	-4770 Jun 12 j 02:00	0°♍	
	-4770 Aug 02 j 07:15	0°♎	
	-4770 Sep 14 j 08:33	0°♏	
	-4770 Oct 25 j 23:42	0°♐	
	-4770 Dec 07 j 02:20	0°♑	
	-4769 Jan 19 j 12:17	0°♒	
	-4769 Mar 05 j 11:42	0°♓	
evening set	-4769 Mar 29 j 09:22	15°♓34'50	
asc. node	-4769 Apr 01 j 21:35	17°♓51'05	
	-4769 Apr 20 j 18:10	0°♈	
conjunction	-4769 May 17 j 01:13	16°♈49'34	0°24'55
minimum elong	-4769 May 17 j 00:20	16°♈48'09	0°24'58
max. Earth dist.	-4769 May 19 j 10:57	18°♈21'42	2.66784 AU
	-4769 Jun 06 j 16:49	0°♉	
morning rise	-4769 Jul 02 j 03:58	16°♉15'27	
	-4769 Jul 23 j 14:43	0°♊	
	-4769 Sep 08 j 01:07	0°♋	
	-4769 Oct 23 j 23:57	0°♌	
	-4769 Dec 08 j 21:48	0°♍	
	-4768 Jan 24 j 23:49	0°♎	
	-4768 Mar 18 j 10:46	0°♏	
desc. node	-4768 Apr 01 j 12:48	6°♏04'13	
retrograde	-4768 May 07 j 15:06	13°♏43'42	
min. Earth dist.	-4768 Jun 04 j 20:57	9°♏07'44	0.38023 AU

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

opposition	-4768 Jun 07 j 18:26	8°♏20'41	-4°43'42
greatest brilliancy	-4768 Jun 07 j 04:35	8°♏30'04	-2.9m
direct	-4768 Jul 07 j 14:16	3°♏19'31	
	-4768 Sep 21 j 03:12	0°♐	
	-4768 Nov 10 j 00:37	0°♑	
	-4768 Dec 27 j 07:10	0°♒	
	-4767 Feb 12 j 11:43	0°♓	
asc. node	-4767 Feb 16 j 18:48	2°♓43'11	
	-4767 Mar 31 j 23:55	0°♈	
evening set	-4767 May 07 j 01:04	22°♈46'03	
	-4767 May 18 j 10:32	0°♉	
max. Earth dist.	-4767 Jun 11 j 09:48	15°♉18'33	2.65797 AU
conjunction	-4767 Jun 22 j 20:19	22°♉40'33	0°59'45
minimum elong	-4767 Jun 22 j 19:06	22°♉38'36	0°59'57
	-4767 Jul 04 j 03:36	0°♊	
morning rise	-4767 Aug 07 j 08:18	22°♊29'13	
	-4767 Aug 18 j 14:05	0°♋	
	-4767 Oct 01 j 13:20	0°♌	
	-4767 Nov 13 j 03:55	0°♍	
	-4767 Dec 24 j 18:19	0°♎	
	-4766 Feb 03 j 23:07	0°♏	
desc. node	-4766 Feb 17 j 13:28	9°♏49'47	
	-4766 Mar 18 j 00:53	0°♐	
	-4766 May 03 j 10:30	0°♑	
retrograde	-4766 Jul 09 j 08:04	23°♑42'01	
min. Earth dist.	-4766 Aug 07 j 04:51	18°♑01'37	0.47988 AU
greatest brilliancy	-4766 Aug 13 j 19:49	15°♑40'11	-2.2m
opposition	-4766 Aug 15 j 06:51	15°♑08'52	-5°35'35
direct	-4766 Sep 17 j 13:57	8°♑12'04	
	-4766 Nov 26 j 10:45	0°♒	
asc. node	-4765 Jan 04 j 18:12	21°♒02'38	
	-4765 Jan 20 j 10:13	0°♓	
	-4765 Mar 11 j 23:33	0°♈	
	-4765 Apr 29 j 17:52	0°♉	
evening set	-4765 Jun 14 j 15:24	29°♉13'46	
	-4765 Jun 15 j 19:52	0°♊	
max. Earth dist.	-4765 Jul 07 j 10:51	14°♊12'14	2.59549 AU
	-4765 Jul 30 j 23:08	0°♋	
conjunction	-4765 Aug 01 j 04:46	0°♋50'24	1°11'02
minimum elong	-4765 Aug 01 j 05:02	0°♋50'51	1°11'18
	-4765 Sep 12 j 01:57	0°♌	
morning rise	-4765 Sep 18 j 14:30	4°♌39'31	
	-4765 Oct 23 j 09:24	0°♍	
	-4765 Dec 02 j 08:43	0°♎	
desc. node	-4764 Jan 05 j 12:33	26°♎05'17	
	-4764 Jan 10 j 15:06	0°♏	
	-4764 Feb 19 j 00:45	0°♐	
	-4764 Mar 30 j 17:31	0°♑	
	-4764 May 13 j 16:32	0°♒	
	-4764 Jul 06 j 15:35	0°♓	
retrograde	-4764 Aug 21 j 00:10	11°♓24'03	
min. Earth dist.	-4764 Sep 24 j 05:22	3°♓38'05	0.59564 AU
opposition	-4764 Sep 29 j 12:32	1°♓32'10	-2°10'13
greatest brilliancy	-4764 Sep 29 j 03:28	1°♓41'09	-1.7m
	-4764 Oct 03 j 10:44	30°♑℞	
direct	-4764 Nov 05 j 17:16	22°♒55'01	
asc. node	-4764 Nov 21 j 19:06	24°♒26'56	
	-4764 Dec 12 j 14:13	0°♓	
	-4763 Feb 15 j 07:32	0°♈	
	-4763 Apr 08 j 15:07	0°♉	
	-4763 May 26 j 22:52	0°♊	
	-4763 Jul 11 j 08:00	0°♋	
evening set	-4763 Jul 25 j 18:17	9°♋55'22	
max. Earth dist.	-4763 Aug 09 j 23:49	20°♋36'19	2.48755 AU
	-4763 Aug 23 j 03:35	0°♌	
conjunction	-4763 Sep 15 j 17:18	17°♌12'37	0°44'13
minimum elong	-4763 Sep 15 j 19:21	17°♌16'24	0°44'22
	-4763 Oct 02 j 20:26	0°♍	
morning rise	-4763 Nov 11 j 19:46	0°♎34'37	
	-4763 Nov 11 j 01:54	0°♎	
desc. node	-4763 Nov 22 j 09:11	8°♎46'36	
	-4763 Dec 19 j 14:09	0°♏	
	-4762 Jan 27 j 05:26	0°♐	
	-4762 Mar 07 j 21:36	0°♑	
	-4762 Apr 18 j 14:39	0°♒	
	-4762 Jun 02 j 19:16	0°♓	
	-4762 Jul 25 j 15:20	0°♈	
retrograde	-4762 Sep 26 j 03:18	18°♈24'58	
asc. node	-4762 Oct 09 j 20:59	17°♈08'36	
min. Earth dist.	-4762 Nov 03 j 13:39	9°♈12'17	0.66111 AU
opposition	-4762 Nov 05 j 04:31	8°♈33'11	0°59'46
greatest brilliancy	-4762 Nov 05 j 02:35	8°♈35'08	-1.4m
	-4762 Dec 02 j 13:43	30°♓℞	
direct	-4762 Dec 14 j 22:48	29°♓00'17	
	-4762 Dec 27 j 23:00	0°♈	
	-4761 Mar 15 j 09:08	0°♉	
	-4761 May 06 j 10:37	0°♊	
	-4761 Jun 21 j 23:09	0°♋	
	-4761 Aug 03 j 23:59	0°♌	
	-4761 Sep 13 j 12:30	0°♍	
evening set	-4761 Sep 15 j 13:47	1°♍33'32	
desc. node	-4761 Oct 10 j 05:58	20°♍31'14	
	-4761 Oct 22 j 10:05	0°♎	
max. Earth dist.	-4761 Nov 05 j 07:24	10°♎53'10	2.37786 AU
conjunction	-4761 Nov 15 j 19:51	19°♎09'31	-0°26'06
minimum elong	-4761 Nov 15 j 17:38	19°♎05'09	0°26'08
	-4761 Nov 29 j 14:24	0°♏	
	-4760 Jan 06 j 23:18	0°♐	
morning rise	-4760 Jan 22 j 10:40	11°♐54'12	
	-4760 Feb 15 j 09:31	0°♑	
	-4760 Mar 27 j 15:15	0°♒	
	-4760 May 10 j 08:55	0°♓	
	-4760 Jun 26 j 12:12	0°♈	
	-4760 Aug 19 j 02:39	0°♉	
asc. node	-4760 Aug 26 j 22:19	3°♉48'01	
retrograde	-4760 Oct 30 j 00:39	22°♉11'01	
opposition	-4760 Dec 08 j 10:23	12°♉50'30	3°28'42
greatest brilliancy	-4760 Dec 08 j 14:52	12°♉46'02	-1.3m
min. Earth dist.	-4760 Dec 10 j 14:16	11°♉59'01	0.66504 AU
direct	-4759 Jan 18 j 12:27	2°♉51'21	
	-4759 Apr 09 j 21:12	0°♊	
	-4759 May 30 j 11:11	0°♋	
	-4759 Jul 13 j 17:11	0°♌	
	-4759 Aug 23 j 14:19	0°♍	
desc. node	-4759 Aug 27 j 04:14	2°♍42'33	
	-4759 Oct 01 j 13:35	0°♎	
	-4759 Nov 08 j 18:11	0°♏	
evening set	-4759 Nov 19 j 16:59	8°♏36'06	
	-4759 Dec 17 j 04:20	0°♐	
conjunction	-4758 Jan 23 j 06:48	28°♐11'28	-1°08'25
minimum elong	-4758 Jan 23 j 06:51	28°♐11'35	1°08'39
	-4758 Jan 25 j 17:05	0°♑	
	-4758 Mar 08 j 00:26	0°♒	
max. Earth dist.	-4758 Mar 09 j 16:21	1°♒10'39	2.47754 AU
morning rise	-4758 Mar 25 j 14:41	12°♒19'43	
	-4758 Apr 20 j 12:06	0°♓	
	-4758 Jun 05 j 08:23	0°♈	
asc. node	-4758 Jul 14 j 20:31	24°♈33'35	
	-4758 Jul 23 j 21:48	0°♉	
	-4758 Sep 15 j 06:21	0°♊	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

retrograde	-4758 Dec 07 j 16:12	27°♊32'59	
opposition	-4757 Jan 14 j 07:25	19°♊07'44	5°04'41
greatest brilliancy	-4757 Jan 15 j 06:38	18°♊45'34	-1.6m
min. Earth dist.	-4757 Jan 20 j 05:34	16°♊52'09	0.60542 AU
direct	-4757 Feb 24 j 03:40	9°♊17'23	
	-4757 May 01 j 06:52	0°♋	
	-4757 Jun 20 j 01:58	0°♌	
desc. node	-4757 Jul 15 j 02:49	17°♌16'27	
	-4757 Aug 01 j 16:44	0°♍	
	-4757 Sep 10 j 10:46	0°♎	
	-4757 Oct 19 j 03:36	0°♏	
	-4757 Nov 27 j 00:52	0°♐	
	-4756 Jan 06 j 01:01	0°♑	
evening set	-4756 Jan 22 j 19:23	12°♑13'01	
	-4756 Feb 16 j 18:58	0°♒	
conjunction	-4756 Mar 19 j 03:45	21°♒38'38	-0°40'17
minimum elong	-4756 Mar 19 j 05:31	21°♒41'38	0°40'25
	-4756 Mar 31 j 13:05	0°♓	
max. Earth dist.	-4756 Apr 13 j 20:54	8°♓52'47	2.59143 AU
morning rise	-4756 May 10 j 07:02	26°♓11'19	
	-4756 May 16 j 04:24	0°♈	
asc. node	-4756 May 31 j 17:44	9°♈59'15	
	-4756 Jul 02 j 09:00	0°♉	
	-4756 Aug 20 j 00:21	0°♊	
	-4756 Oct 10 j 04:08	0°♋	
	-4756 Dec 09 j 17:43	0°♌	
retrograde	-4755 Jan 25 j 08:04	10°♌36'38	
opposition	-4755 Feb 28 j 16:09	3°♌43'50	4°42'36
greatest brilliancy	-4755 Mar 02 j 04:01	3°♌13'00	-2.2m
min. Earth dist.	-4755 Mar 09 j 02:35	0°♌50'45	0.48992 AU
	-4755 Mar 11 j 17:01	30°℞♋	
direct	-4755 Apr 07 j 13:20	25°♋17'43	
	-4755 May 04 j 23:12	0°♌	
desc. node	-4755 Jun 01 j 02:40	11°♌35'29	
	-4755 Jul 02 j 15:20	0°♍	
	-4755 Aug 15 j 06:26	0°♎	
	-4755 Sep 24 j 23:15	0°♏	
	-4755 Nov 04 j 06:50	0°♐	
	-4755 Dec 15 j 11:25	0°♑	
	-4754 Jan 27 j 05:06	0°♒	
evening set	-4754 Mar 12 j 15:50	29°♒58'19	
	-4754 Mar 12 j 16:51	0°♓	
asc. node	-4754 Apr 18 j 14:47	24°♓08'39	
	-4754 Apr 27 j 16:23	0°♈	
conjunction	-4754 May 01 j 19:12	2°♈39'05	0°07'30
minimum elong	-4754 May 01 j 18:54	2°♈38'37	0°07'29
behind sun begin	-4754 May 01 j 00:57	2°♈09'45	
behind sun end	-4754 May 02 j 12:51	3°♈07'29	
max. Earth dist.	-4754 May 10 j 06:39	8°♈05'48	2.65676 AU
	-4754 Jun 13 j 13:41	0°♉	
morning rise	-4754 Jun 17 j 22:53	2°♉47'26	
	-4754 Jul 30 j 17:42	0°♊	
	-4754 Sep 15 j 21:26	0°♋	
	-4754 Nov 02 j 08:13	0°♌	
	-4754 Dec 21 j 08:52	0°♍	
	-4753 Feb 15 j 13:22	0°♎	
retrograde	-4753 Apr 07 j 04:14	13°♎06'43	
desc. node	-4753 Apr 19 j 05:04	12°♎11'59	
opposition	-4753 May 07 j 16:56	8°♎02'23	-1°23'48
greatest brilliancy	-4753 May 07 j 19:15	8°♎00'49	-2.9m
min. Earth dist.	-4753 May 10 j 08:06	7°♎19'37	0.38238 AU
direct	-4753 Jun 07 j 21:22	2°♎40'32	
	-4753 Aug 21 j 09:36	0°♏	
	-4753 Oct 07 j 23:22	0°♐	
	-4753 Nov 21 j 23:40	0°♑	
	-4752 Jan 06 j 03:37	0°♒	
	-4752 Feb 21 j 05:11	0°♓	
asc. node	-4752 Mar 05 j 11:01	8°♓30'52	
	-4752 Apr 08 j 02:48	0°♈	
evening set	-4752 Apr 21 j 23:31	8°♈48'44	
	-4752 May 25 j 07:03	0°♉	
max. Earth dist.	-4752 Jun 01 j 22:53	4°♉53'17	2.66822 AU
conjunction	-4752 Jun 08 j 05:11	8°♉53'26	0°48'24
minimum elong	-4752 Jun 08 j 03:53	8°♉51'21	0°48'31
	-4752 Jul 11 j 00:25	0°♊	
morning rise	-4752 Jul 23 j 14:39	8°♊11'13	
	-4752 Aug 25 j 17:57	0°♋	
	-4752 Oct 09 j 07:18	0°♌	
	-4752 Nov 21 j 19:35	0°♍	
	-4751 Jan 03 j 16:10	0°♎	
	-4751 Feb 15 j 16:53	0°♏	
desc. node	-4751 Mar 06 j 06:43	12°♏35'34	
	-4751 Apr 02 j 08:50	0°♐	
retrograde	-4751 Jun 18 j 01:25	29°♐37'30	
min. Earth dist.	-4751 Jul 15 j 04:51	24°♐45'53	0.43076 AU
greatest brilliancy	-4751 Jul 21 j 07:33	22°♐47'03	-2.5m
opposition	-4751 Jul 22 j 22:40	22°♐15'08	-6°22'03
direct	-4751 Aug 23 j 10:41	16°♐11'28	
	-4751 Oct 14 j 13:04	0°♑	
	-4751 Dec 10 j 08:04	0°♒	
asc. node	-4750 Jan 21 j 09:17	24°♒56'29	
	-4750 Jan 29 j 17:56	0°♓	
	-4750 Mar 19 j 17:46	0°♈	
	-4750 May 06 j 20:35	0°♉	
evening set	-4750 May 30 j 11:08	14°♉59'20	
	-4750 Jun 22 j 17:34	0°♊	
max. Earth dist.	-4750 Jun 26 j 20:33	2°♊41'18	2.62592 AU
conjunction	-4750 Jul 16 j 09:07	15°♊32'39	1°10'16
minimum elong	-4750 Jul 16 j 08:37	15°♊31'49	1°10'31
	-4750 Aug 06 j 22:27	0°♋	
morning rise	-4750 Sep 01 j 03:10	17°♋16'22	
	-4750 Sep 19 j 07:36	0°♌	
	-4750 Oct 31 j 00:45	0°♍	
	-4750 Dec 10 j 11:39	0°♎	
	-4749 Jan 19 j 06:42	0°♏	
desc. node	-4749 Jan 22 j 05:33	2°♏13'46	
	-4749 Feb 28 j 07:06	0°♐	
	-4749 Apr 11 j 00:03	0°♑	
	-4749 May 27 j 18:57	0°♒	
retrograde	-4749 Aug 06 j 09:33	24°♒51'39	
min. Earth dist.	-4749 Sep 07 j 14:33	17°♒50'15	0.55489 AU
greatest brilliancy	-4749 Sep 13 j 11:17	15°♒34'20	-1.9m
opposition	-4749 Sep 14 j 05:38	15°♒16'33	-3°32'35
direct	-4749 Oct 20 j 01:56	7°♒12'08	
asc. node	-4749 Dec 09 j 09:49	19°♒32'34	
	-4748 Jan 01 j 08:45	0°♓	
	-4748 Feb 25 j 23:33	0°♈	
	-4748 Apr 16 j 10:58	0°♉	
	-4748 Jun 03 j 04:04	0°♊	
evening set	-4748 Jul 08 j 13:59	23°♊20'40	
	-4748 Jul 18 j 09:48	0°♋	
max. Earth dist.	-4748 Jul 25 j 15:34	4°♋57'17	2.53437 AU
conjunction	-4748 Aug 27 j 05:56	27°♋48'31	1°00'15
minimum elong	-4748 Aug 27 j 07:33	27°♋51'24	1°00'28
	-4748 Aug 30 j 07:24	0°♌	
	-4748 Oct 10 j 04:56	0°♍	
morning rise	-4748 Oct 19 j 01:54	6°♍40'12	
	-4748 Nov 18 j 15:56	0°♎	
desc. node	-4748 Dec 09 j 04:28	15°♎51'51	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4748 Dec 27 j 09:33	0°♏	
	-4747 Feb 04 j 05:36	0°♐	
	-4747 Mar 16 j 03:16	0°♑	
	-4747 Apr 27 j 07:40	0°♒	
	-4747 Jun 12 j 23:33	0°♓	
	-4747 Aug 14 j 12:09	0°♈	
retrograde	-4747 Sep 12 j 13:12	4°♈54'05	
	-4747 Oct 09 j 10:04	30°℞♓	
min. Earth dist.	-4747 Oct 19 j 11:14	26°♓11'21	0.64261 AU
opposition	-4747 Oct 22 j 13:00	24°♓57'12	-0°09'13
greatest brilliancy	-4747 Oct 22 j 12:43	24°♓57'30	-1.5m
asc. node	-4747 Oct 26 j 11:12	23°♓23'18	
direct	-4747 Nov 30 j 10:19	15°♓42'10	
	-4746 Jan 25 j 09:04	0°♈	
	-4746 Mar 25 j 09:05	0°♉	
	-4746 May 14 j 11:06	0°♊	
	-4746 Jun 29 j 09:55	0°♋	
	-4746 Aug 11 j 07:40	0°♌	
evening set	-4746 Aug 24 j 16:20	9°♌43'06	
max. Earth dist.	-4746 Sep 14 j 21:14	25°♌28'18	2.41247 AU
	-4746 Sep 20 j 21:17	0°♍	
conjunction	-4746 Oct 20 j 20:20	22°♍58'21	0°04'32
minimum elong	-4746 Oct 20 j 20:43	22°♍59'04	0°04'35
behind sun begin	-4746 Oct 19 j 19:44	22°♍10'40	
behind sun end	-4746 Oct 21 j 21:41	23°♍47'30	
desc. node	-4746 Oct 27 j 01:35	27°♍48'16	
	-4746 Oct 29 j 21:15	0°♎	
	-4746 Dec 07 j 03:50	0°♏	
morning rise	-4746 Dec 24 j 13:22	13°♏38'25	
	-4745 Jan 14 j 14:01	0°♐	
	-4745 Feb 23 j 00:46	0°♑	
	-4745 Apr 05 j 08:05	0°♒	
	-4745 May 19 j 08:51	0°♓	
	-4745 Jul 06 j 16:03	0°♈	
	-4745 Sep 04 j 15:24	0°♉	
asc. node	-4745 Sep 13 j 12:27	3°♉10'07	
retrograde	-4745 Oct 17 j 08:09	9°♉19'15	
	-4745 Nov 25 j 10:34	30°℞♈	
opposition	-4745 Nov 26 j 02:50	29°♈43'45	2°36'16
greatest brilliancy	-4745 Nov 26 j 02:55	29°♈43'39	-1.3m
min. Earth dist.	-4745 Nov 26 j 18:57	29°♈27'37	0.67106 AU
direct	-4744 Jan 05 j 20:00	19°♈51'29	
	-4744 Feb 20 j 09:06	0°♉	
	-4744 Apr 20 j 15:08	0°♊	
	-4744 Jun 07 j 23:32	0°♋	
	-4744 Jul 21 j 14:18	0°♌	
	-4744 Aug 31 j 06:35	0°♍	
desc. node	-4744 Sep 12 j 21:53	9°♍38'05	
	-4744 Oct 09 j 04:15	0°♎	
evening set	-4744 Oct 23 j 14:53	11°♎19'44	
	-4744 Nov 16 j 07:57	0°♏	
	-4744 Dec 24 j 16:42	0°♐	
conjunction	-4744 Dec 27 j 21:43	2°♐28'51	-1°01'57
minimum elong	-4744 Dec 27 j 19:14	2°♐24'01	1°02'10
	-4743 Feb 02 j 03:18	0°♑	
max. Earth dist.	-4743 Feb 14 j 19:13	9°♑22'28	2.42552 AU
morning rise	-4743 Mar 03 j 06:32	21°♑21'43	
	-4743 Mar 15 j 08:33	0°♒	
	-4743 Apr 27 j 20:01	0°♓	
	-4743 Jun 12 j 23:06	0°♈	
asc. node	-4743 Jul 31 j 12:55	29°♈21'29	
	-4743 Aug 01 j 15:45	0°♉	
	-4743 Sep 29 j 04:17	0°♊	
retrograde	-4743 Nov 21 j 20:13	13°♊28'24	
opposition	-4743 Dec 30 j 07:37	4°♊38'08	4°35'42
greatest brilliancy	-4743 Dec 30 j 22:40	4°♊23'29	-1.5m
min. Earth dist.	-4742 Jan 03 j 18:58	2°♊53'39	0.63622 AU
	-4742 Jan 11 j 13:54	30°℞♉	
direct	-4742 Feb 09 j 11:36	24°♉38'34	
	-4742 Mar 12 j 14:26	0°♊	
	-4742 May 14 j 06:14	0°♋	
	-4742 Jun 29 j 17:41	0°♌	
desc. node	-4742 Jul 31 j 19:57	22°♌54'47	
	-4742 Aug 10 j 09:29	0°♍	
	-4742 Sep 18 j 17:08	0°♎	
	-4742 Oct 27 j 03:14	0°♏	
	-4742 Dec 04 j 18:30	0°♐	
evening set	-4742 Dec 30 j 13:42	19°♐35'57	
	-4741 Jan 13 j 12:37	0°♑	
	-4741 Feb 24 j 01:02	0°♒	
conjunction	-4741 Feb 28 j 06:51	2°♒59'09	-0°56'05
minimum elong	-4741 Feb 28 j 08:55	3°♒02'47	0°56'17
max. Earth dist.	-4741 Apr 02 j 15:38	25°♒58'19	2.55190 AU
	-4741 Apr 08 j 15:00	0°♓	
morning rise	-4741 Apr 24 j 11:40	10°♓34'32	
	-4741 May 24 j 06:02	0°♈	
asc. node	-4741 Jun 18 j 10:47	16°♈03'19	
	-4741 Jul 10 j 18:35	0°♉	
	-4741 Aug 29 j 13:24	0°♊	
	-4741 Oct 23 j 13:59	0°♋	
retrograde	-4740 Jan 05 j 00:08	22°♋31'05	
opposition	-4740 Feb 09 j 19:49	14°♋56'18	5°14'43
greatest brilliancy	-4740 Feb 11 j 06:18	14°♋24'58	-1.9m
min. Earth dist.	-4740 Feb 17 j 15:30	12°♋06'13	0.54025 AU
direct	-4740 Mar 20 j 08:03	5°♋43'11	
	-4740 May 29 j 18:40	0°♌	
desc. node	-4740 Jun 17 j 20:06	11°♌30'22	
	-4740 Jul 15 j 12:12	0°♍	
	-4740 Aug 25 j 18:23	0°♎	
	-4740 Oct 04 j 07:58	0°♏	
	-4740 Nov 12 j 20:59	0°♐	
	-4740 Dec 23 j 10:43	0°♑	
	-4739 Feb 03 j 16:29	0°♒	
evening set	-4739 Feb 22 j 16:09	13°♒03'55	
	-4739 Mar 19 j 19:20	0°♓	
conjunction	-4739 Apr 15 j 18:36	17°♓47'07	-0°11'09
minimum elong	-4739 Apr 15 j 19:05	17°♓47'54	0°11'12
behind sun begin	-4739 Apr 15 j 04:13	17°♓23'37	
behind sun end	-4739 Apr 16 j 09:58	18°♓12'11	
max. Earth dist.	-4739 Apr 30 j 14:35	27°♓25'36	2.63765 AU
	-4739 May 04 j 14:05	0°♈	
asc. node	-4739 May 05 j 07:11	0°♈27'37	
morning rise	-4739 Jun 03 j 10:19	19°♈08'32	
	-4739 Jun 20 j 12:11	0°♉	
	-4739 Aug 07 j 01:44	0°♊	
	-4739 Sep 24 j 06:31	0°♋	
	-4739 Nov 13 j 03:42	0°♌	
	-4738 Jan 08 j 14:02	0°♍	
retrograde	-4738 Mar 07 j 03:58	15°♍41'05	
opposition	-4738 Apr 07 j 21:22	10°♍03'58	1°55'24
greatest brilliancy	-4738 Apr 08 j 11:41	9°♍53'22	-2.7m
min. Earth dist.	-4738 Apr 14 j 16:18	8°♍04'00	0.41369 AU
desc. node	-4738 May 05 j 20:43	3°♍46'03	
direct	-4738 May 11 j 19:12	3°♍31'37	
	-4738 Jul 22 j 18:44	0°♎	
	-4738 Sep 06 j 18:42	0°♏	
	-4738 Oct 19 j 16:09	0°♐	
	-4738 Dec 01 j 12:17	0°♑	
	-4737 Jan 14 j 09:40	0°♒	
	-4737 Feb 28 j 16:15	0°♓	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

asc. node	-4737 Mar 23 j 03:43	14°♓35'35	
evening set	-4737 Apr 07 j 12:19	24°♓28'43	
	-4737 Apr 16 j 02:58	0°♈	
conjunction	-4737 May 25 j 13:09	25°♈10'09	0°34'11
minimum elong	-4737 May 25 j 12:02	25°♈08'22	0°34'16
max. Earth dist.	-4737 May 24 j 19:39	24°♈42'15	2.67034 AU
	-4737 Jun 02 j 02:59	0°♉	
morning rise	-4737 Jul 10 j 06:41	24°♉25'01	
	-4737 Jul 18 j 22:50	0°♊	
	-4737 Sep 03 j 02:37	0°♋	
	-4737 Oct 18 j 11:31	0°♌	
	-4737 Dec 02 j 07:52	0°♍	
	-4736 Jan 16 j 07:49	0°♎	
	-4736 Mar 03 j 11:23	0°♏	
desc. node	-4736 Mar 22 j 23:34	11°♏10'26	
	-4736 May 09 j 05:21	0°♐	
retrograde	-4736 May 23 j 23:33	1°♐27'14	
	-4736 Jun 07 j 14:27	30°℞♏	
min. Earth dist.	-4736 Jun 19 j 21:56	26°♏59'54	0.39205 AU
greatest brilliancy	-4736 Jun 24 j 02:59	25°♏47'38	-2.8m
opposition	-4736 Jun 25 j 06:04	25°♏28'07	-5°53'29
direct	-4736 Jul 25 j 10:33	20°♏12'55	
	-4736 Sep 05 j 09:05	0°♐	
	-4736 Nov 01 j 21:29	0°♑	
	-4736 Dec 21 j 03:47	0°♒	
asc. node	-4735 Feb 07 j 00:32	29°♒52'36	
	-4735 Feb 07 j 05:16	0°♓	
	-4735 Mar 27 j 04:06	0°♈	
	-4735 May 13 j 19:46	0°♉	
evening set	-4735 May 15 j 14:01	1°♉07'00	
max. Earth dist.	-4735 Jun 16 j 23:39	21°♉50'16	2.64888 AU
	-4735 Jun 29 j 14:01	0°♊	
conjunction	-4735 Jul 01 j 07:10	1°♊06'55	1°04'46
minimum elong	-4735 Jul 01 j 06:08	1°♊05'15	1°04'58
	-4735 Aug 13 j 22:39	0°♋	
morning rise	-4735 Aug 16 j 01:32	1°♋25'45	
	-4735 Sep 26 j 16:43	0°♌	
	-4735 Nov 07 j 23:12	0°♍	
	-4735 Dec 19 j 02:22	0°♎	
	-4734 Jan 28 j 16:24	0°♏	
desc. node	-4734 Feb 08 j 00:33	7°♏37'49	
	-4734 Mar 10 j 17:56	0°♐	
	-4734 Apr 23 j 13:00	0°♑	
	-4734 Jun 19 j 05:40	0°♒	
retrograde	-4734 Jul 20 j 04:18	6°♒05'32	
	-4734 Aug 18 j 23:49	30°℞♑	
min. Earth dist.	-4734 Aug 19 j 04:42	29°♑55'37	0.50736 AU
opposition	-4734 Aug 26 j 22:15	27°♑04'17	-4°54'13
greatest brilliancy	-4734 Aug 25 j 16:55	27°♑31'29	-2.1m
direct	-4734 Sep 30 j 04:52	19°♑40'58	
	-4734 Nov 13 j 23:45	0°♒	
asc. node	-4734 Dec 25 j 23:38	19°♒51'02	
	-4733 Jan 13 j 17:07	0°♓	
	-4733 Mar 06 j 14:43	0°♈	
	-4733 Apr 24 j 21:43	0°♉	
	-4733 Jun 11 j 04:47	0°♊	
evening set	-4733 Jun 23 j 12:46	8°♊02'47	
max. Earth dist.	-4733 Jul 14 j 01:50	21°♊41'06	2.57554 AU
	-4733 Jul 26 j 09:10	0°♋	
conjunction	-4733 Aug 10 j 15:46	10°♋28'54	1°08'57
minimum elong	-4733 Aug 10 j 16:32	10°♋30'13	1°09'11
	-4733 Sep 07 j 10:16	0°♌	
morning rise	-4733 Sep 29 j 08:05	15°♌48'53	
	-4733 Oct 18 j 14:21	0°♍	
	-4733 Nov 27 j 09:05	0°♎	
desc. node	-4733 Dec 26 j 22:11	22°♎40'27	
	-4732 Jan 05 j 10:32	0°♏	
	-4732 Feb 13 j 14:20	0°♐	
	-4732 Mar 24 j 21:51	0°♑	
	-4732 May 06 j 23:14	0°♒	
	-4732 Jun 25 j 18:02	0°♓	
retrograde	-4732 Aug 29 j 11:03	20°♓32'40	
min. Earth dist.	-4732 Oct 03 j 16:21	12°♓24'53	0.61460 AU
opposition	-4732 Oct 08 j 04:36	10°♓36'48	-1°24'20
greatest brilliancy	-4732 Oct 07 j 23:37	10°♓41'47	-1.6m
asc. node	-4732 Nov 12 j 01:25	1°♓48'05	
direct	-4732 Nov 15 j 00:26	1°♓44'41	
	-4731 Feb 08 j 04:01	0°♈	
	-4731 Apr 03 j 04:40	0°♉	
	-4731 May 22 j 01:42	0°♊	
	-4731 Jul 06 j 15:51	0°♋	
evening set	-4731 Aug 05 j 02:39	20°♋25'34	
	-4731 Aug 18 j 12:31	0°♌	
max. Earth dist.	-4731 Aug 20 j 15:15	1°♌31'28	2.46045 AU
conjunction	-4731 Sep 27 j 16:34	29°♌37'37	0°31'42
minimum elong	-4731 Sep 27 j 18:25	29°♌41'06	0°31'48
	-4731 Sep 28 j 04:27	0°♍	
	-4731 Nov 06 j 07:48	0°♎	
desc. node	-4731 Nov 12 j 19:16	5°♎02'12	
morning rise	-4731 Nov 26 j 12:58	15°♎45'28	
	-4731 Dec 14 j 17:42	0°♏	
	-4730 Jan 22 j 06:35	0°♐	
	-4730 Mar 02 j 19:43	0°♑	
	-4730 Apr 13 j 07:31	0°♒	
	-4730 May 27 j 21:53	0°♓	
	-4730 Jul 17 j 08:48	0°♈	
asc. node	-4730 Sep 30 j 03:33	26°♈18'28	
retrograde	-4730 Oct 03 j 21:42	26°♈23'51	
opposition	-4730 Nov 12 j 21:10	16°♈36'56	1°37'08
min. Earth dist.	-4730 Nov 12 j 01:53	16°♈56'20	0.66726 AU
greatest brilliancy	-4730 Nov 12 j 19:10	16°♈38'57	-1.4m
direct	-4730 Dec 23 j 00:18	6°♈56'06	
	-4729 Mar 07 j 19:31	0°♉	
	-4729 Apr 30 j 20:32	0°♊	
	-4729 Jun 16 j 22:58	0°♋	
	-4729 Jul 30 j 04:50	0°♌	
	-4729 Sep 08 j 19:07	0°♍	
evening set	-4729 Sep 29 j 00:00	15°♍27'46	
desc. node	-4729 Sep 30 j 16:22	16°♍45'44	
	-4729 Oct 17 j 16:46	0°♎	
	-4729 Nov 24 j 20:36	0°♏	
conjunction	-4729 Dec 01 j 05:38	5°♏01'04	-0°41'56
minimum elong	-4729 Dec 01 j 02:27	4°♏54'47	0°42'01
max. Earth dist.	-4729 Dec 31 j 04:46	28°♏26'54	2.38188 AU
	-4728 Jan 02 j 04:48	0°♐	
morning rise	-4728 Feb 06 j 22:41	27°♐16'30	
	-4728 Feb 10 j 14:04	0°♑	
	-4728 Mar 22 j 18:20	0°♒	
	-4728 May 05 j 07:52	0°♓	
	-4728 Jun 20 j 22:58	0°♈	
	-4728 Aug 11 j 14:07	0°♉	
asc. node	-4728 Aug 17 j 03:52	2°♉56'49	
	-4728 Nov 02 j 19:04	0°♊	
retrograde	-4728 Nov 07 j 03:49	0°♊06'59	
	-4728 Nov 11 j 10:59	30°℞♉	
opposition	-4728 Dec 16 j 06:24	20°♉56'19	3°55'49
greatest brilliancy	-4728 Dec 16 j 14:16	20°♉48'33	-1.4m
min. Earth dist.	-4728 Dec 19 j 06:09	19°♉45'29	0.65737 AU
direct	-4727 Jan 26 j 10:23	10°♉55'24	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4727 Apr 01 j 12:11	0°♊	
	-4727 May 24 j 12:47	0°♋	
	-4727 Jul 08 j 10:15	0°♌	
desc. node	-4727 Aug 17 j 13:10	29°♌14'13	
	-4727 Aug 18 j 13:31	0°♍	
	-4727 Sep 26 j 15:33	0°♎	
	-4727 Nov 03 j 21:51	0°♏	
evening set	-4727 Dec 04 j 22:09	24°♏13'38	
	-4727 Dec 12 j 09:19	0°♐	
	-4726 Jan 20 j 23:03	0°♑	
conjunction	-4726 Feb 06 j 00:48	11°♑50'11	-1°06'28
minimum elong	-4726 Feb 06 j 02:01	11°♑52'25	1°06'41
	-4726 Mar 03 j 07:06	0°♒	
max. Earth dist.	-4726 Mar 19 j 07:50	11°♒14'44	2.50537 AU
morning rise	-4726 Apr 06 j 00:43	23°♒24'56	
	-4726 Apr 15 j 18:12	0°♓	
	-4726 May 31 j 10:58	0°♈	
asc. node	-4726 Jul 05 j 02:37	21°♈47'46	
	-4726 Jul 18 j 12:21	0°♉	
	-4726 Sep 08 j 03:28	0°♊	
	-4726 Nov 11 j 23:07	0°♋	
retrograde	-4726 Dec 17 j 09:23	6°♋28'52	
	-4725 Jan 18 j 21:56	30°℞♊	
opposition	-4725 Jan 23 j 10:32	28°♊19'46	5°14'18
greatest brilliancy	-4725 Jan 24 j 14:22	27°♊53'34	-1.7m
min. Earth dist.	-4725 Jan 30 j 02:35	25°♊49'13	0.58440 AU
direct	-4725 Mar 04 j 22:22	18°♊38'38	
	-4725 Apr 20 j 00:29	0°♋	
	-4725 Jun 13 j 05:50	0°♌	
desc. node	-4725 Jul 05 j 12:23	14°♌52'48	
	-4725 Jul 26 j 20:18	0°♍	
	-4725 Sep 04 j 23:56	0°♎	
	-4725 Oct 13 j 22:24	0°♏	
	-4725 Nov 21 j 23:56	0°♐	
	-4724 Jan 01 j 03:35	0°♑	
evening set	-4724 Feb 03 j 23:32	24°♑20'37	
	-4724 Feb 12 j 00:38	0°♒	
	-4724 Mar 26 j 20:44	0°♓	
conjunction	-4724 Mar 29 j 15:03	1°♓50'53	-0°29'54
minimum elong	-4724 Mar 29 j 16:24	1°♓53'08	0°30'01
max. Earth dist.	-4724 Apr 20 j 05:21	16°♓08'26	2.61026 AU
	-4724 May 11 j 12:18	0°♈	
morning rise	-4724 May 19 j 07:59	5°♈02'34	
asc. node	-4724 May 21 j 23:44	6°♈45'00	
	-4724 Jun 27 j 13:15	0°♉	
	-4724 Aug 14 j 17:07	0°♊	
	-4724 Oct 03 j 12:18	0°♋	
	-4724 Nov 27 j 03:42	0°♌	
retrograde	-4723 Feb 07 j 19:04	22°♌29'06	
opposition	-4723 Mar 13 j 06:44	16°♌02'11	4°01'50
greatest brilliancy	-4723 Mar 14 j 14:42	15°♌35'52	-2.3m
min. Earth dist.	-4723 Mar 21 j 15:26	13°♌18'12	0.46149 AU
direct	-4723 Apr 18 j 22:11	8°♌11'18	
desc. node	-4723 May 22 j 14:26	15°♌09'52	
	-4723 Jun 22 j 04:33	0°♍	
	-4723 Aug 07 j 20:23	0°♎	
	-4723 Sep 18 j 15:13	0°♏	
	-4723 Oct 29 j 13:46	0°♐	
	-4723 Dec 10 j 04:26	0°♑	
	-4722 Jan 22 j 05:33	0°♒	
	-4722 Mar 07 j 22:24	0°♓	
evening set	-4722 Mar 22 j 09:18	9°♓29'12	
asc. node	-4722 Apr 08 j 19:14	20°♓48'40	
	-4722 Apr 23 j 01:02	0°♈	
conjunction	-4722 May 10 j 15:22	11°♈17'31	0°17'49
minimum elong	-4722 May 10 j 14:41	11°♈16'26	0°17'50
max. Earth dist.	-4722 May 15 j 18:26	14°♈34'16	2.66401 AU
	-4722 Jun 08 j 22:36	0°♉	
morning rise	-4722 Jun 26 j 03:22	10°♉57'47	
	-4722 Jul 25 j 23:01	0°♊	
	-4722 Sep 10 j 16:43	0°♋	
	-4722 Oct 27 j 05:42	0°♌	
	-4722 Dec 13 j 06:36	0°♍	
	-4721 Jan 31 j 21:52	0°♎	
desc. node	-4721 Apr 09 j 16:07	29°♎02'32	
	-4721 Apr 15 j 22:49	0°♏	
retrograde	-4721 Apr 25 j 01:06	0°♏31'36	
	-4721 May 04 j 04:19	30°℞♎	
opposition	-4721 May 25 j 16:27	25°♎24'55	-3°24'46
min. Earth dist.	-4721 May 25 j 05:28	25°♎32'13	0.37724 AU
greatest brilliancy	-4721 May 25 j 12:47	25°♎27'22	-2.9m
direct	-4721 Jun 24 j 18:53	20°♎22'26	
	-4721 Aug 04 j 16:44	0°♏	
	-4721 Sep 29 j 04:58	0°♐	
	-4721 Nov 15 j 09:07	0°♑	
	-4721 Dec 31 j 13:17	0°♒	
	-4720 Feb 16 j 03:57	0°♓	
asc. node	-4720 Feb 24 j 16:02	5°♓25'34	
	-4720 Apr 03 j 08:55	0°♈	
evening set	-4720 Apr 30 j 16:00	17°♈17'06	
	-4720 May 20 j 16:35	0°♉	
max. Earth dist.	-4720 Jun 07 j 10:06	11°♉18'53	2.66366 AU
conjunction	-4720 Jun 16 j 14:36	17°♉12'25	0°55'23
minimum elong	-4720 Jun 16 j 13:19	17°♉10'22	0°55'32
	-4720 Jul 06 j 10:08	0°♊	
morning rise	-4720 Jul 31 j 23:39	16°♊42'51	
	-4720 Aug 21 j 00:21	0°♋	
	-4720 Oct 04 j 06:06	0°♌	
	-4720 Nov 16 j 06:13	0°♍	
	-4720 Dec 28 j 08:38	0°♎	
	-4719 Feb 08 j 05:33	0°♏	
desc. node	-4719 Feb 24 j 16:51	11°♏39'13	
	-4719 Mar 23 j 09:45	0°♐	
	-4719 May 12 j 10:55	0°♑	
retrograde	-4719 Jun 30 j 13:23	14°♑09'13	
min. Earth dist.	-4719 Jul 28 j 12:27	8°♑52'19	0.45740 AU
greatest brilliancy	-4719 Aug 04 j 01:43	6°♑37'41	-2.4m
opposition	-4719 Aug 05 j 15:52	6°♑04'50	-6°01'35
	-4719 Aug 29 j 16:48	30°℞♐	
direct	-4719 Sep 07 j 03:52	29°♐31'13	
	-4719 Sep 15 j 20:08	0°♑	
	-4719 Dec 02 j 05:14	0°♒	
asc. node	-4718 Jan 11 j 15:17	22°♒49'33	
	-4718 Jan 23 j 19:54	0°♓	
	-4718 Mar 14 j 15:23	0°♈	
	-4718 May 02 j 02:49	0°♉	
evening set	-4718 Jun 08 j 02:56	23°♉31'11	
	-4718 Jun 18 j 03:13	0°♊	
max. Earth dist.	-4718 Jul 02 j 23:49	9°♊43'08	2.61014 AU
conjunction	-4718 Jul 25 j 07:46	24°♊34'59	1°11'21
minimum elong	-4718 Jul 25 j 07:41	24°♊34'50	1°11'35
	-4718 Aug 02 j 08:15	0°♋	
morning rise	-4718 Sep 10 j 21:06	27°♋21'29	
	-4718 Sep 14 j 14:45	0°♌	
	-4718 Oct 26 j 03:18	0°♍	
	-4718 Dec 05 j 07:58	0°♎	
desc. node	-4717 Jan 12 j 16:22	29°♎08'08	
	-4717 Jan 13 j 19:37	0°♏	
	-4717 Feb 22 j 10:37	0°♐	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4717 Apr 04 j 10:47	0°♉	
	-4717 May 19 j 05:31	0°♒	
	-4717 Jul 18 j 04:12	0°♓	
retrograde	-4717 Aug 15 j 12:34	4°♓57'03	
	-4717 Sep 11 j 02:29	30°℞♒	
min. Earth dist.	-4717 Sep 17 j 20:43	27°♒29'46	0.57829 AU
opposition	-4717 Sep 23 j 18:08	25°♒10'51	-2°44'49
greatest brilliancy	-4717 Sep 23 j 05:22	25°♒23'25	-1.8m
direct	-4717 Oct 30 j 08:22	16°♒47'23	
asc. node	-4717 Nov 29 j 16:10	21°♒48'24	
	-4717 Dec 22 j 01:54	0°♓	
	-4716 Feb 19 j 20:02	0°♈	
	-4716 Apr 11 j 07:35	0°♉	
	-4716 May 29 j 09:38	0°♊	
	-4716 Jul 13 j 18:31	0°♋	
evening set	-4716 Jul 18 j 05:46	3°♋02'59	
max. Earth dist.	-4716 Aug 03 j 02:53	14°♋01'45	2.50905 AU
	-4716 Aug 25 j 16:04	0°♌	
conjunction	-4716 Sep 07 j 01:41	8°♌58'06	0°52'00
minimum elong	-4716 Sep 07 j 03:37	9°♌01'38	0°52'11
	-4716 Oct 05 j 11:59	0°♍	
morning rise	-4716 Nov 01 j 02:53	20°♍12'13	
	-4716 Nov 13 j 20:24	0°♎	
desc. node	-4716 Nov 29 j 13:39	12°♎10'40	
	-4716 Dec 22 j 11:04	0°♏	
	-4715 Jan 30 j 04:03	0°♐	
	-4715 Mar 10 j 21:22	0°♑	
	-4715 Apr 21 j 17:04	0°♒	
	-4715 Jun 06 j 07:33	0°♓	
	-4715 Jul 31 j 11:41	0°♈	
retrograde	-4715 Sep 20 j 10:10	13°♈09'27	
asc. node	-4715 Oct 16 j 17:52	8°♈28'59	
min. Earth dist.	-4715 Oct 28 j 04:23	4°♈09'35	0.65395 AU
opposition	-4715 Oct 30 j 10:48	3°♈14'45	0°31'39
greatest brilliancy	-4715 Oct 30 j 09:30	3°♈16'04	-1.4m
	-4715 Nov 07 j 17:47	30°℞♓	
direct	-4715 Dec 08 j 19:48	23°♓49'20	
	-4714 Jan 12 j 09:12	0°♈	
	-4714 Mar 19 j 01:24	0°♉	
	-4714 May 09 j 06:08	0°♊	
	-4714 Jun 24 j 13:57	0°♋	
	-4714 Aug 06 j 14:31	0°♌	
evening set	-4714 Sep 05 j 18:51	22°♌10'14	
	-4714 Sep 16 j 04:30	0°♍	
max. Earth dist.	-4714 Oct 06 j 21:47	15°♍50'33	2.38952 AU
desc. node	-4714 Oct 17 j 10:17	23°♍59'16	
	-4714 Oct 25 j 03:33	0°♎	
conjunction	-4714 Nov 04 j 05:30	7°♎53'08	-0°12'55
minimum elong	-4714 Nov 04 j 04:24	7°♎50'59	0°12'55
behind sun begin	-4714 Nov 03 j 11:41	7°♎18'16	
behind sun end	-4714 Nov 04 j 21:06	8°♎23'43	
	-4714 Dec 02 j 08:51	0°♏	
morning rise	-4713 Jan 09 j 22:54	0°♐09'39	
	-4713 Jan 09 j 17:55	0°♐	
	-4713 Feb 18 j 03:23	0°♑	
	-4713 Mar 31 j 08:23	0°♒	
	-4713 May 14 j 03:00	0°♓	
	-4713 Jun 30 j 14:14	0°♈	
	-4713 Aug 24 j 22:52	0°♉	
asc. node	-4713 Sep 03 j 19:19	4°♉23'16	
retrograde	-4713 Oct 25 j 04:17	17°♉07'38	
opposition	-4713 Dec 03 j 18:02	7°♉40'01	3°07'31
greatest brilliancy	-4713 Dec 03 j 20:19	7°♉37'44	-1.3m
min. Earth dist.	-4713 Dec 05 j 05:52	7°♉04'18	0.66903 AU
	-4713 Dec 25 j 23:18	30°℞♈	

direct	-4712 Jan 13 j 16:13	27°♈43'21	
	-4712 Feb 02 j 17:09	0°♉	
	-4712 Apr 13 j 23:36	0°♊	
	-4712 Jun 02 j 14:00	0°♋	
	-4712 Jul 16 j 14:20	0°♌	
	-4712 Aug 26 j 10:20	0°♍	
desc. node	-4712 Sep 03 j 08:15	6°♍00'26	
	-4712 Oct 04 j 09:13	0°♎	
evening set	-4712 Nov 07 j 19:40	27°♎03'49	
	-4712 Nov 11 j 13:11	0°♏	
	-4712 Dec 19 j 22:05	0°♐	
conjunction	-4711 Jan 12 j 02:26	17°♐46'02	-1°07'16
minimum elong	-4711 Jan 12 j 01:22	17°♐44'01	1°07'31
	-4711 Jan 28 j 08:45	0°♑	
max. Earth dist.	-4711 Feb 28 j 22:18	23°♑06'46	2.45426 AU
	-4711 Mar 10 j 13:46	0°♒	
morning rise	-4711 Mar 16 j 08:11	4°♒04'42	
	-4711 Apr 22 j 23:50	0°♓	
	-4711 Jun 07 j 21:12	0°♈	
asc. node	-4711 Jul 21 j 18:09	27°♈01'13	
	-4711 Jul 26 j 18:58	0°♉	
	-4711 Sep 19 j 16:41	0°♊	
retrograde	-4711 Nov 30 j 18:08	21°♊51'32	
opposition	-4710 Jan 07 j 18:30	13°♊14'32	4°53'40
greatest brilliancy	-4710 Jan 08 j 14:04	12°♊55'41	-1.5m
min. Earth dist.	-4710 Jan 13 j 01:04	11°♊12'30	0.62046 AU
direct	-4710 Feb 17 j 18:44	3°♊18'54	
	-4710 May 06 j 14:54	0°♋	
	-4710 Jun 23 j 19:25	0°♌	
desc. node	-4710 Jul 22 j 06:44	19°♌57'09	
	-4710 Aug 05 j 00:28	0°♍	
	-4710 Sep 13 j 14:05	0°♎	
	-4710 Oct 22 j 03:35	0°♏	
	-4710 Nov 29 j 21:27	0°♐	
	-4709 Jan 08 j 17:37	0°♑	
evening set	-4709 Jan 13 j 00:52	3°♑10'11	
	-4709 Feb 19 j 07:36	0°♒	
conjunction	-4709 Mar 11 j 20:41	14°♒18'31	-0°47'24
minimum elong	-4709 Mar 11 j 22:40	14°♒21'57	0°47'35
	-4709 Apr 03 j 22:23	0°♓	
max. Earth dist.	-4709 Apr 09 j 21:44	4°♓00'13	2.57456 AU
morning rise	-4709 May 04 j 06:42	20°♓06'27	
	-4709 May 19 j 12:14	0°♈	
asc. node	-4709 Jun 08 j 15:20	12°♈53'55	
	-4709 Jul 05 j 18:53	0°♉	
	-4709 Aug 23 j 19:57	0°♊	
	-4709 Oct 15 j 06:29	0°♋	
	-4709 Dec 24 j 17:20	0°♌	
retrograde	-4708 Jan 16 j 16:42	2°♌55'43	
	-4708 Feb 07 j 05:30	30°℞♋	
opposition	-4708 Feb 20 j 17:39	25°♋43'02	5°00'53
greatest brilliancy	-4708 Feb 22 j 05:44	25°♋11'07	-2.0m
min. Earth dist.	-4708 Feb 28 j 23:28	22°♋48'51	0.51299 AU
direct	-4708 Mar 30 j 09:40	16°♋53'15	
	-4708 May 17 j 23:17	0°♌	
desc. node	-4708 Jun 08 j 06:26	11°♌16'38	
	-4708 Jul 08 j 02:08	0°♍	
	-4708 Aug 19 j 12:03	0°♎	
	-4708 Sep 28 j 14:55	0°♏	
	-4708 Nov 07 j 12:52	0°♐	
	-4708 Dec 18 j 09:16	0°♑	
	-4707 Jan 29 j 20:05	0°♒	
evening set	-4707 Mar 05 j 02:44	23°♒19'56	
	-4707 Mar 15 j 02:28	0°♓	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

conjunction	-4707 Apr 25 j 01:48	26°♓50'56	-0°00'16
minimum elong	-4707 Apr 25 j 01:47	26°♓50'54	0°00'17
behind sun begin	-4707 Apr 24 j 05:34	26°♓18'13	
behind sun end	-4707 Apr 25 j 21:59	27°♓23'33	
asc. node	-4707 Apr 25 j 12:45	27°♓08'37	
	-4707 Apr 29 j 22:50	0°♈	
max. Earth dist.	-4707 May 06 j 08:39	4°♈07'54	2.64920 AU
morning rise	-4707 Jun 11 j 19:55	27°♈27'36	
	-4707 Jun 15 j 19:43	0°♉	
	-4707 Aug 02 j 03:29	0°♊	
	-4707 Sep 18 j 17:05	0°♋	
	-4707 Nov 06 j 01:19	0°♌	
	-4707 Dec 27 j 08:00	0°♍	
	-4706 Mar 11 j 08:08	0°♎	
retrograde	-4706 Mar 24 j 07:28	1°♎00'52	
	-4706 Apr 06 j 00:29	30°℞♍	
opposition	-4706 Apr 24 j 04:22	25°♍46'07	0°09'32
greatest brilliancy	-4706 Apr 24 j 05:25	25°♍45'23	-2.9m
desc. node	-4706 Apr 26 j 08:17	25°♍09'42	
min. Earth dist.	-4706 Apr 28 j 23:30	24°♍25'35	0.39341 AU
direct	-4706 May 26 j 12:53	19°♍56'18	
	-4706 Jul 06 j 14:09	0°♎	
	-4706 Aug 28 j 20:19	0°♏	
	-4706 Oct 12 j 18:12	0°♐	
	-4706 Nov 25 j 14:54	0°♑	
	-4705 Jan 09 j 02:47	0°♒	
	-4705 Feb 23 j 18:27	0°♓	
asc. node	-4705 Mar 13 j 08:42	11°♓22'15	
	-4705 Apr 11 j 10:24	0°♈	
evening set	-4705 Apr 16 j 10:48	3°♈12'04	
	-4705 May 28 j 12:23	0°♉	
max. Earth dist.	-4705 May 30 j 04:14	1°♉03'33	2.67016 AU
conjunction	-4705 Jun 02 j 23:58	3°♉29'50	0°42'45
minimum elong	-4705 Jun 02 j 22:43	3°♉27'50	0°42'52
	-4705 Jul 14 j 07:02	0°♊	
morning rise	-4705 Jul 18 j 11:37	2°♊42'43	
	-4705 Aug 29 j 05:18	0°♋	
	-4705 Oct 13 j 03:13	0°♌	
	-4705 Nov 26 j 04:44	0°♍	
	-4704 Jan 08 j 20:34	0°♎	
	-4704 Feb 22 j 05:20	0°♏	
desc. node	-4704 Mar 13 j 10:10	13°♏01'13	
	-4704 Apr 11 j 09:32	0°♐	
retrograde	-4704 Jun 07 j 15:24	18°♐12'24	
min. Earth dist.	-4704 Jul 04 j 10:05	13°♐36'38	0.41131 AU
greatest brilliancy	-4704 Jul 09 j 21:30	11°♐55'43	-2.7m
opposition	-4704 Jul 11 j 09:40	11°♐27'45	-6°22'42
direct	-4704 Aug 11 j 04:43	5°♐47'47	
	-4704 Oct 22 j 23:53	0°♑	
	-4704 Dec 14 j 12:31	0°♒	
asc. node	-4703 Jan 28 j 06:21	27°♒14'12	
	-4703 Feb 01 j 18:07	0°♓	
	-4703 Mar 22 j 05:57	0°♈	
	-4703 May 09 j 03:43	0°♉	
evening set	-4703 May 24 j 02:43	9°♉29'13	
max. Earth dist.	-4703 Jun 22 j 15:50	28°♉28'38	2.63714 AU
	-4703 Jun 25 j 00:04	0°♊	
conjunction	-4703 Jul 09 j 21:19	9°♊44'05	1°08'29
minimum elong	-4703 Jul 09 j 20:34	9°♊42'51	1°08'41
	-4703 Aug 09 j 07:19	0°♋	
morning rise	-4703 Aug 25 j 02:45	10°♋44'57	
	-4703 Sep 21 j 21:02	0°♌	
	-4703 Nov 02 j 20:29	0°♍	
	-4703 Dec 13 j 14:34	0°♎	
	-4702 Jan 22 j 17:11	0°♏	
desc. node	-4702 Jan 29 j 09:10	4°♏59'16	
	-4702 Mar 04 j 02:40	0°♐	
	-4702 Apr 15 j 11:01	0°♑	
	-4702 Jun 03 j 12:50	0°♒	
retrograde	-4702 Jul 30 j 06:33	17°♒30'27	
min. Earth dist.	-4702 Aug 30 j 12:21	10°♒50'47	0.53428 AU
opposition	-4702 Sep 06 j 15:39	8°♒07'57	-4°08'11
greatest brilliancy	-4702 Sep 05 j 16:38	8°♒29'55	-2.0m
direct	-4702 Oct 11 j 19:28	0°♒20'45	
asc. node	-4702 Dec 16 j 06:45	19°♒32'43	
	-4701 Jan 06 j 05:46	0°♓	
	-4701 Mar 01 j 00:40	0°♈	
	-4701 Apr 19 j 23:23	0°♉	
	-4701 Jun 06 j 12:55	0°♊	
evening set	-4701 Jul 02 j 14:03	17°♊04'33	
max. Earth dist.	-4701 Jul 21 j 03:37	29°♊33'31	2.55363 AU
	-4701 Jul 21 j 19:12	0°♋	
conjunction	-4701 Aug 20 j 11:29	20°♋32'28	1°04'47
minimum elong	-4701 Aug 20 j 12:45	20°♋34'41	1°05'01
	-4701 Sep 02 j 19:23	0°♌	
morning rise	-4701 Oct 10 j 18:23	27°♌41'53	
	-4701 Oct 13 j 20:35	0°♍	
	-4701 Nov 22 j 11:23	0°♎	
desc. node	-4701 Dec 17 j 08:17	19°♎10'02	
	-4701 Dec 31 j 08:12	0°♏	
	-4700 Feb 08 j 06:58	0°♐	
	-4700 Mar 19 j 07:23	0°♑	
	-4700 Apr 30 j 17:31	0°♒	
	-4700 Jun 17 j 06:38	0°♓	
retrograde	-4700 Sep 06 j 15:59	29°♓20'01	
min. Earth dist.	-4700 Oct 12 j 20:04	20°♓52'06	0.63129 AU
opposition	-4700 Oct 16 j 13:17	19°♓22'31	-0°39'59
greatest brilliancy	-4700 Oct 16 j 11:23	19°♓24'26	-1.5m
asc. node	-4700 Nov 02 j 08:05	13°♓22'53	
direct	-4700 Nov 23 j 23:24	10°♓17'03	
	-4699 Jan 30 j 22:21	0°♈	
	-4699 Mar 28 j 12:06	0°♉	
	-4699 May 17 j 02:13	0°♊	
	-4699 Jul 01 j 22:35	0°♋	
	-4699 Aug 13 j 21:06	0°♌	
evening set	-4699 Aug 15 j 22:56	1°♌29'46	
max. Earth dist.	-4699 Sep 02 j 12:02	14°♌17'56	2.43356 AU
	-4699 Sep 23 j 12:47	0°♍	
conjunction	-4699 Oct 10 j 09:56	12°♍50'44	0°16'58
minimum elong	-4699 Oct 10 j 11:07	12°♍53'01	0°17'02
	-4699 Nov 01 j 14:50	0°♎	
desc. node	-4699 Nov 03 j 05:47	1°♎15'47	
	-4699 Dec 09 j 22:50	0°♏	
morning rise	-4699 Dec 12 j 01:35	1°♏39'30	
	-4698 Jan 17 j 09:41	0°♐	
	-4698 Feb 25 j 20:23	0°♑	
	-4698 Apr 08 j 03:46	0°♒	
	-4698 May 22 j 07:37	0°♓	
	-4698 Jul 10 j 05:43	0°♈	
	-4698 Sep 13 j 23:33	0°♉	
asc. node	-4698 Sep 20 j 08:50	1°♉39'48	
retrograde	-4698 Oct 11 j 15:42	4°♉17'18	
	-4698 Nov 06 j 03:02	30°℞♈	
opposition	-4698 Nov 20 j 12:35	24°♈36'11	2°12'24
greatest brilliancy	-4698 Nov 20 j 11:25	24°♈37'22	-1.3m
min. Earth dist.	-4698 Nov 20 j 12:44	24°♈36'02	0.67062 AU
direct	-4698 Dec 30 j 23:43	14°♈48'29	
	-4697 Feb 26 j 20:25	0°♉	
	-4697 Apr 24 j 23:56	0°♊	
	-4697 Jun 11 j 20:10	0°♋	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4697 Jul 25 j 08:16	0°♌	
	-4697 Sep 04 j 00:43	0°♍	
desc. node	-4697 Sep 21 j 01:57	13°♍01'14	
	-4697 Oct 12 j 22:57	0°♎	
evening set	-4697 Oct 13 j 04:25	0°♎10'40	
	-4697 Nov 20 j 02:40	0°♏	
conjunction	-4697 Dec 16 j 20:57	20°♏59'59	-0°54'48
minimum elong	-4697 Dec 16 j 17:46	20°♏53'47	0°54'57
	-4697 Dec 28 j 10:42	0°♐	
max. Earth dist.	-4696 Jan 31 j 18:35	26°♐13'02	2.40344 AU
	-4696 Feb 05 j 19:45	0°♑	
morning rise	-4696 Feb 21 j 15:14	11°♑42'32	
	-4696 Mar 17 j 23:02	0°♒	
	-4696 Apr 30 j 09:41	0°♓	
	-4696 Jun 15 j 15:20	0°♈	
	-4696 Aug 04 j 22:14	0°♉	
asc. node	-4696 Aug 07 j 09:31	1°♉22'51	
	-4696 Oct 06 j 08:45	0°♊	
retrograde	-4696 Nov 15 j 11:49	8°♊09'08	
	-4696 Dec 22 j 02:05	30°℞♉	
opposition	-4696 Dec 24 j 06:08	29°♉09'14	4°19'55
greatest brilliancy	-4696 Dec 24 j 17:51	28°♉57'44	-1.4m
min. Earth dist.	-4696 Dec 28 j 01:26	27°♉39'40	0.64695 AU
direct	-4695 Feb 03 j 10:30	19°♉08'10	
	-4695 Mar 21 j 21:35	0°♊	
	-4695 May 18 j 05:09	0°♋	
	-4695 Jul 03 j 00:05	0°♌	
desc. node	-4695 Aug 07 j 23:25	25°♌54'42	
	-4695 Aug 13 j 11:03	0°♍	
	-4695 Sep 21 j 16:34	0°♎	
	-4695 Oct 30 j 00:41	0°♏	
	-4695 Dec 07 j 13:36	0°♐	
evening set	-4695 Dec 19 j 16:08	9°♐16'43	
	-4694 Jan 16 j 04:45	0°♑	
conjunction	-4694 Feb 18 j 23:25	24°♑35'51	-1°01'23
minimum elong	-4694 Feb 19 j 01:18	24°♑39'13	1°01'35
	-4694 Feb 26 j 13:49	0°♒	
max. Earth dist.	-4694 Mar 27 j 21:54	20°♒24'28	2.53184 AU
	-4694 Apr 11 j 01:09	0°♓	
morning rise	-4694 Apr 16 j 19:09	3°♓51'39	
	-4694 May 26 j 15:21	0°♈	
asc. node	-4694 Jun 25 j 08:13	18°♈51'00	
	-4694 Jul 13 j 07:37	0°♉	
	-4694 Sep 01 j 17:21	0°♊	
	-4694 Oct 29 j 09:33	0°♋	
retrograde	-4694 Dec 27 j 17:23	15°♋51'53	
opposition	-4693 Feb 02 j 02:45	8°♋00'45	5°17'05
greatest brilliancy	-4693 Feb 03 j 10:33	7°♋31'18	-1.8m
min. Earth dist.	-4693 Feb 09 j 10:24	5°♋18'26	0.56104 AU
	-4693 Feb 27 j 12:50	30°℞♊	
direct	-4693 Mar 14 j 02:29	28°♊33'04	
	-4693 Mar 29 j 05:05	0°♋	
	-4693 Jun 05 j 11:59	0°♌	
desc. node	-4693 Jun 25 j 23:33	13°♌01'50	
	-4693 Jul 20 j 15:23	0°♍	
	-4693 Aug 30 j 09:04	0°♎	
	-4693 Oct 08 j 15:02	0°♏	
	-4693 Nov 16 j 21:50	0°♐	
	-4693 Dec 27 j 05:44	0°♑	
	-4692 Feb 07 j 06:02	0°♒	
evening set	-4692 Feb 15 j 10:06	5°♒40'41	
	-4692 Mar 22 j 04:35	0°♓	
conjunction	-4692 Apr 08 j 14:13	11°♓33'04	-0°19'05
minimum elong	-4692 Apr 08 j 15:05	11°♓34'29	0°19'10
max. Earth dist.	-4692 Apr 26 j 07:45	23°♓09'41	2.62641 AU
	-4692 May 06 j 20:45	0°♈	
asc. node	-4692 May 12 j 04:35	3°♈26'17	
morning rise	-4692 May 28 j 02:11	13°♈38'49	
	-4692 Jun 22 j 19:16	0°♉	
	-4692 Aug 09 j 14:07	0°♊	
	-4692 Sep 27 j 08:57	0°♋	
	-4692 Nov 17 j 19:38	0°♌	
	-4691 Jan 21 j 16:26	0°♍	
retrograde	-4691 Feb 22 j 16:36	5°♍32'19	
	-4691 Mar 25 j 18:42	30°℞♌	
opposition	-4691 Mar 27 j 05:11	29°♌33'22	2°59'11
greatest brilliancy	-4691 Mar 28 j 04:48	29°♌15'00	-2.5m
min. Earth dist.	-4691 Apr 04 j 00:08	27°♌08'57	0.43390 AU
direct	-4691 May 01 j 10:25	22°♌24'39	
desc. node	-4691 May 13 j 00:05	23°♌18'38	
	-4691 Jun 05 j 12:28	0°♍	
	-4691 Jul 30 j 01:22	0°♎	
	-4691 Sep 11 j 16:55	0°♏	
	-4691 Oct 23 j 13:24	0°♐	
	-4691 Dec 04 j 18:07	0°♑	
	-4690 Jan 17 j 04:30	0°♒	
	-4690 Mar 03 j 03:36	0°♓	
asc. node	-4690 Mar 30 j 01:10	17°♓31'32	
evening set	-4690 Mar 31 j 17:20	18°♓36'30	
	-4690 Apr 18 j 09:43	0°♈	
conjunction	-4690 May 19 j 05:50	19°♈43'46	0°27'33
minimum elong	-4690 May 19 j 04:53	19°♈42'14	0°27'37
max. Earth dist.	-4690 May 21 j 03:54	20°♈57'13	2.66853 AU
	-4690 Jun 04 j 08:14	0°♉	
morning rise	-4690 Jul 04 j 06:02	19°♉06'04	
	-4690 Jul 21 j 06:06	0°♊	
	-4690 Sep 05 j 15:49	0°♋	
	-4690 Oct 21 j 12:17	0°♌	
	-4690 Dec 06 j 04:26	0°♍	
	-4689 Jan 21 j 16:44	0°♎	
	-4689 Mar 13 j 21:29	0°♏	
desc. node	-4689 Mar 31 j 02:16	8°♏12'37	
retrograde	-4689 May 12 j 12:18	18°♏30'04	
min. Earth dist.	-4689 Jun 09 j 09:29	13°♏57'04	0.38168 AU
opposition	-4689 Jun 12 j 18:53	13°♏01'30	-5°03'59
greatest brilliancy	-4689 Jun 12 j 02:20	13°♏12'49	-2.9m
direct	-4689 Jul 12 j 16:21	7°♏59'02	
	-4689 Sep 17 j 19:19	0°♐	
	-4689 Nov 07 j 23:56	0°♑	
	-4689 Dec 25 j 15:31	0°♒	
	-4688 Feb 10 j 23:40	0°♓	
asc. node	-4688 Feb 14 j 22:03	2°♓29'08	
	-4688 Mar 29 j 13:40	0°♈	
evening set	-4688 May 09 j 05:39	25°♈39'51	
	-4688 May 16 j 01:40	0°♉	
max. Earth dist.	-4688 Jun 12 j 21:45	17°♉46'26	2.65658 AU
conjunction	-4688 Jun 24 j 23:53	25°♉33'58	1°01'14
minimum elong	-4688 Jun 24 j 22:44	25°♉32'06	1°01'25
	-4688 Jul 01 j 20:06	0°♊	
morning rise	-4688 Aug 09 j 12:13	25°♊26'33	
	-4688 Aug 16 j 07:48	0°♋	
	-4688 Sep 29 j 07:43	0°♌	
	-4688 Nov 10 j 22:08	0°♍	
	-4688 Dec 22 j 11:09	0°♎	
	-4687 Feb 01 j 12:45	0°♏	
desc. node	-4687 Feb 15 j 04:05	9°♏54'42	
	-4687 Mar 15 j 07:08	0°♐	
	-4687 Apr 29 j 17:19	0°♑	
retrograde	-4687 Jul 12 j 02:47	27°♑28'30	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

min. Earth dist.	-4687 Aug 10 j 03:22	21°♍42'24	0.48499 AU
greatest brilliancy	-4687 Aug 16 j 18:21	19°♍19'57	-2.2m
opposition	-4687 Aug 18 j 04:06	18°♍49'30	-5°26'25
direct	-4687 Sep 20 j 16:32	11°♍47'20	
	-4687 Nov 22 j 04:59	0°♒	
asc. node	-4686 Jan 01 j 20:46	21°♒11'31	
	-4686 Jan 17 j 11:10	0°♓	
	-4686 Mar 09 j 08:51	0°♈	
	-4686 Apr 27 j 07:17	0°♉	
	-4686 Jun 13 j 12:13	0°♊	
evening set	-4686 Jun 16 j 21:03	2°♊11'17	
max. Earth dist.	-4686 Jul 09 j 07:49	16°♊57'12	2.59200 AU
	-4686 Jul 28 j 17:50	0°♋	
conjunction	-4686 Aug 03 j 12:18	3°♋55'40	1°10'40
minimum elong	-4686 Aug 03 j 12:42	3°♋56'19	1°10'53
	-4686 Sep 09 j 22:23	0°♌	
morning rise	-4686 Sep 21 j 02:54	7°♌59'54	
	-4686 Oct 21 j 06:55	0°♍	
	-4686 Nov 30 j 06:34	0°♎	
desc. node	-4685 Jan 03 j 02:25	25°♎50'50	
	-4685 Jan 08 j 12:23	0°♏	
	-4685 Feb 16 j 20:14	0°♐	
	-4685 Mar 29 j 08:57	0°♑	
	-4685 May 11 j 22:11	0°♒	
	-4685 Jul 03 j 01:07	0°♓	
retrograde	-4685 Aug 24 j 05:29	14°♓28'56	
min. Earth dist.	-4685 Sep 27 j 14:56	6°♓38'28	0.59927 AU
opposition	-4685 Oct 02 j 18:16	4°♓35'56	-1°57'47
greatest brilliancy	-4685 Oct 02 j 10:16	4°♓43'53	-1.7m
	-4685 Oct 15 j 06:46	30°℞♒	
direct	-4685 Nov 09 j 00:45	25°♒55'57	
asc. node	-4685 Nov 19 j 22:11	26°♒39'03	
	-4685 Dec 06 j 05:27	0°♓	
	-4684 Feb 13 j 03:13	0°♈	
	-4684 Apr 05 j 23:57	0°♉	
	-4684 May 24 j 13:42	0°♊	
	-4684 Jul 09 j 02:45	0°♋	
evening set	-4684 Jul 28 j 05:25	13°♋08'49	
max. Earth dist.	-4684 Aug 12 j 13:10	23°♋55'46	2.48257 AU
	-4684 Aug 21 j 01:03	0°♌	
conjunction	-4684 Sep 18 j 11:00	20°♌45'50	0°41'21
minimum elong	-4684 Sep 18 j 13:01	20°♌49'35	0°41'30
	-4684 Sep 30 j 19:33	0°♍	
	-4684 Nov 09 j 01:41	0°♎	
morning rise	-4684 Nov 15 j 01:31	4°♎38'52	
desc. node	-4684 Nov 19 j 23:31	8°♎28'12	
	-4684 Dec 17 j 13:39	0°♏	
	-4683 Jan 25 j 03:47	0°♐	
	-4683 Mar 05 j 17:45	0°♑	
	-4683 Apr 16 j 06:57	0°♒	
	-4683 May 31 j 03:55	0°♓	
	-4683 Jul 21 j 22:12	0°♈	
retrograde	-4683 Sep 28 j 05:26	21°♈15'06	
asc. node	-4683 Oct 07 j 00:20	20°♈43'57	
min. Earth dist.	-4683 Nov 05 j 18:11	11°♈59'38	0.66245 AU
opposition	-4683 Nov 07 j 05:25	11°♈24'08	1°10'32
greatest brilliancy	-4683 Nov 07 j 03:17	11°♈26'16	-1.4m
direct	-4683 Dec 17 j 00:35	1°♈49'47	
	-4682 Mar 12 j 01:55	0°♉	
	-4682 May 03 j 20:09	0°♊	
	-4682 Jun 19 j 15:40	0°♋	
	-4682 Aug 01 j 20:39	0°♌	
	-4682 Sep 11 j 11:47	0°♍	
evening set	-4682 Sep 18 j 13:40	5°♍22'31	
desc. node	-4682 Oct 07 j 20:42	20°♍12'41	
	-4682 Oct 20 j 10:41	0°♎	
max. Earth dist.	-4682 Nov 15 j 17:53	20°♎38'32	2.37662 AU
conjunction	-4682 Nov 19 j 05:13	23°♎22'32	-0°29'56
minimum elong	-4682 Nov 19 j 02:42	23°♎17'36	0°29'59
	-4682 Nov 27 j 15:07	0°♏	
	-4681 Jan 04 j 23:04	0°♐	
morning rise	-4681 Jan 25 j 23:10	16°♐08'55	
	-4681 Feb 13 j 07:27	0°♑	
	-4681 Mar 26 j 10:29	0°♒	
	-4681 May 09 j 00:17	0°♓	
	-4681 Jun 24 j 20:40	0°♈	
	-4681 Aug 16 j 14:22	0°♉	
asc. node	-4681 Aug 25 j 00:55	4°♉14'01	
retrograde	-4681 Nov 02 j 04:08	24°♉59'39	
opposition	-4681 Dec 11 j 11:43	15°♉40'57	3°36'25
greatest brilliancy	-4681 Dec 11 j 16:53	15°♉35'49	-1.3m
min. Earth dist.	-4681 Dec 13 j 19:06	14°♉45'57	0.66380 AU
direct	-4680 Jan 21 j 13:17	5°♉41'19	
	-4680 Apr 06 j 11:08	0°♊	
	-4680 May 27 j 21:14	0°♋	
	-4680 Jul 11 j 10:35	0°♌	
	-4680 Aug 21 j 11:34	0°♍	
desc. node	-4680 Aug 24 j 17:27	2°♍26'54	
	-4680 Sep 29 j 12:51	0°♎	
	-4680 Nov 06 j 18:07	0°♏	
evening set	-4680 Nov 23 j 03:52	12°♏52'34	
	-4680 Dec 15 j 03:51	0°♐	
	-4679 Jan 23 j 15:17	0°♑	
conjunction	-4679 Jan 26 j 12:07	2°♑08'02	-1°08'12
minimum elong	-4679 Jan 26 j 12:31	2°♑08'46	1°08'27
	-4679 Mar 05 j 20:34	0°♒	
max. Earth dist.	-4679 Mar 12 j 02:15	4°♒24'40	2.48281 AU
morning rise	-4679 Mar 28 j 09:39	15°♒47'13	
	-4679 Apr 18 j 05:41	0°♓	
	-4679 Jun 02 j 22:40	0°♈	
asc. node	-4679 Jul 12 j 00:02	24°♈23'43	
	-4679 Jul 21 j 06:23	0°♉	
	-4679 Sep 11 j 22:38	0°♊	
	-4679 Nov 30 j 19:30	0°♋	
retrograde	-4679 Dec 10 j 01:46	0°♋30'22	
	-4679 Dec 19 j 00:15	30°℞♊	
opposition	-4678 Jan 16 j 13:30	22°♊08'03	5°07'11
greatest brilliancy	-4678 Jan 17 j 13:41	21°♊44'58	-1.6m
min. Earth dist.	-4678 Jan 22 j 14:28	19°♊49'51	0.60161 AU
direct	-4678 Feb 26 j 07:29	12°♊19'00	
	-4678 Apr 27 j 10:03	0°♋	
	-4678 Jun 17 j 10:19	0°♌	
desc. node	-4678 Jul 12 j 15:56	17°♌14'56	
	-4678 Jul 30 j 09:18	0°♍	
	-4678 Sep 08 j 06:47	0°♎	
	-4678 Oct 17 j 00:56	0°♏	
	-4678 Nov 24 j 22:15	0°♐	
	-4677 Jan 03 j 21:34	0°♑	
evening set	-4677 Jan 25 j 19:01	15°♑55'42	
	-4677 Feb 14 j 14:08	0°♒	
conjunction	-4677 Mar 22 j 18:39	24°♒56'51	-0°37'35
minimum elong	-4677 Mar 22 j 20:19	24°♒59'41	0°37'43
	-4677 Mar 30 j 06:35	0°♓	
max. Earth dist.	-4677 Apr 16 j 13:32	11°♓31'11	2.59526 AU
morning rise	-4677 May 13 j 14:18	29°♓11'48	
	-4677 May 14 j 20:05	0°♈	
asc. node	-4677 May 29 j 21:37	9°♈41'23	
	-4677 Jun 30 j 22:30	0°♉	
	-4677 Aug 18 j 09:55	0°♊	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4677 Oct 08 j 03:09	0°♋	
	-4677 Dec 05 j 11:00	0°♌	
retrograde	-4676 Jan 29 j 06:11	14°♌02'59	
opposition	-4676 Mar 03 j 11:47	7°♌14'32	4°33'25
greatest brilliancy	-4676 Mar 04 j 22:50	6°♌44'36	-2.2m
min. Earth dist.	-4676 Mar 11 j 23:14	4°♌22'08	0.48467 AU
	-4676 Mar 28 j 15:01	30°℞♋	
direct	-4676 Apr 10 j 03:14	28°♋54'26	
	-4676 Apr 22 j 23:25	0°♌	
desc. node	-4676 May 29 j 17:54	12°♌44'39	
	-4676 Jun 29 j 09:34	0°♍	
	-4676 Aug 12 j 16:37	0°♎	
	-4676 Sep 22 j 14:38	0°♏	
	-4676 Nov 02 j 00:02	0°♐	
	-4676 Dec 13 j 04:51	0°♑	
	-4675 Jan 24 j 21:58	0°♒	
	-4675 Mar 10 j 08:55	0°♓	
evening set	-4675 Mar 15 j 03:39	3°♓09'42	
asc. node	-4675 Apr 15 j 17:09	23°♓47'21	
	-4675 Apr 25 j 07:47	0°♈	
conjunction	-4675 May 04 j 02:21	5°♈38'48	0°10'24
minimum elong	-4675 May 04 j 01:56	5°♈38'08	0°10'25
behind sun begin	-4675 May 03 j 10:38	5°♈13'35	
behind sun end	-4675 May 04 j 17:13	6°♈02'40	
max. Earth dist.	-4675 May 11 j 22:25	10°♈40'31	2.65853 AU
	-4675 Jun 11 j 04:36	0°♉	
morning rise	-4675 Jun 20 j 01:57	5°♉39'41	
	-4675 Jul 28 j 07:53	0°♊	
	-4675 Sep 13 j 09:38	0°♋	
	-4675 Oct 30 j 15:23	0°♌	
	-4675 Dec 18 j 03:01	0°♍	
	-4674 Feb 10 j 00:38	0°♎	
retrograde	-4674 Apr 11 j 00:43	17°♎36'47	
desc. node	-4674 Apr 16 j 19:34	17°♎24'10	
opposition	-4674 May 11 j 14:19	12°♎33'10	-1°52'02
greatest brilliancy	-4674 May 11 j 16:21	12°♎31'48	-2.9m
min. Earth dist.	-4674 May 13 j 15:22	12°♎00'11	0.38080 AU
direct	-4674 Jun 11 j 11:30	7°♎16'10	
	-4674 Aug 17 j 04:53	0°♏	
	-4674 Oct 05 j 00:02	0°♐	
	-4674 Nov 19 j 08:54	0°♑	
	-4673 Jan 03 j 16:01	0°♒	
	-4673 Feb 18 j 18:47	0°♓	
asc. node	-4673 Mar 03 j 13:25	8°♓12'38	
	-4673 Apr 06 j 17:01	0°♈	
evening set	-4673 Apr 25 j 05:44	11°♈46'13	
	-4673 May 23 j 22:02	0°♉	
max. Earth dist.	-4673 Jun 04 j 13:56	7°♉26'21	2.66766 AU
conjunction	-4673 Jun 11 j 09:33	11°♉47'51	0°50'26
minimum elong	-4673 Jun 11 j 08:15	11°♉45'46	0°50'35
	-4673 Jul 09 j 16:20	0°♊	
morning rise	-4673 Jul 26 j 18:02	11°♊06'11	
	-4673 Aug 24 j 10:31	0°♋	
	-4673 Oct 07 j 23:40	0°♌	
	-4673 Nov 20 j 10:26	0°♍	
	-4672 Jan 02 j 03:38	0°♎	
	-4672 Feb 13 j 21:19	0°♏	
desc. node	-4672 Mar 03 j 20:11	13°♏00'05	
	-4672 Mar 29 j 17:54	0°♐	
	-4672 May 28 j 07:57	0°♑	
retrograde	-4672 Jun 21 j 02:29	3°♑47'35	
	-4672 Jul 14 j 15:37	30°℞♐	
min. Earth dist.	-4672 Jul 18 j 07:25	28°♐52'20	0.43564 AU
greatest brilliancy	-4672 Jul 24 j 14:00	26°♐49'15	-2.5m
opposition	-4672 Jul 26 j 05:12	26°♐17'00	-6°19'35
direct	-4672 Aug 26 j 21:41	20°♐07'40	
	-4672 Oct 08 j 19:42	0°♑	
	-4672 Dec 07 j 03:32	0°♒	
asc. node	-4671 Jan 18 j 12:23	24°♒52'35	
	-4671 Jan 27 j 00:48	0°♓	
	-4671 Mar 17 j 05:01	0°♈	
	-4671 May 04 j 10:28	0°♉	
evening set	-4671 Jun 01 j 16:56	17°♉56'26	
	-4671 Jun 20 j 09:41	0°♊	
max. Earth dist.	-4671 Jun 28 j 14:34	5°♊20'47	2.62326 AU
conjunction	-4671 Jul 18 j 15:35	18°♊34'03	1°10'43
minimum elong	-4671 Jul 18 j 15:12	18°♊33'25	1°10'57
	-4671 Aug 04 j 16:34	0°♋	
morning rise	-4671 Sep 03 j 12:02	20°♋27'03	
	-4671 Sep 17 j 03:14	0°♌	
	-4671 Oct 28 j 21:10	0°♍	
	-4671 Dec 08 j 07:57	0°♎	
	-4670 Jan 17 j 01:47	0°♏	
desc. node	-4670 Jan 19 j 20:07	2°♏05'29	
	-4670 Feb 25 j 23:16	0°♐	
	-4670 Apr 08 j 09:38	0°♑	
	-4670 May 24 j 08:33	0°♒	
retrograde	-4670 Aug 08 j 18:31	28°♒09'35	
min. Earth dist.	-4670 Sep 10 j 04:52	21°♒02'31	0.55937 AU
opposition	-4670 Sep 16 j 16:05	18°♒31'46	-3°20'15
greatest brilliancy	-4670 Sep 15 j 23:04	18°♒48'19	-1.9m
direct	-4670 Oct 22 j 14:46	10°♒23'32	
asc. node	-4670 Dec 06 j 13:03	20°♒31'18	
	-4670 Dec 28 j 09:40	0°♓	
	-4669 Feb 23 j 02:25	0°♈	
	-4669 Apr 14 j 21:33	0°♉	
	-4669 Jun 01 j 18:56	0°♊	
evening set	-4669 Jul 11 j 23:28	26°♊29'28	
	-4669 Jul 17 j 03:46	0°♋	
max. Earth dist.	-4669 Jul 28 j 23:08	8°♋04'51	2.52972 AU
	-4669 Aug 29 j 03:45	0°♌	
conjunction	-4669 Aug 30 j 20:13	1°♌12'30	0°58'21
minimum elong	-4669 Aug 30 j 21:55	1°♌15'32	0°58'32
	-4669 Oct 09 j 02:55	0°♍	
morning rise	-4669 Oct 23 j 01:23	10°♍29'03	
	-4669 Nov 17 j 14:45	0°♎	
desc. node	-4669 Dec 07 j 17:59	15°♎33'42	
	-4669 Dec 26 j 08:16	0°♏	
	-4668 Feb 03 j 03:11	0°♐	
	-4668 Mar 13 j 22:19	0°♑	
	-4668 Apr 24 j 21:40	0°♒	
	-4668 Jun 10 j 01:24	0°♓	
	-4668 Aug 08 j 01:22	0°♈	
retrograde	-4668 Sep 14 j 15:32	7°♈48'13	
	-4668 Oct 19 j 06:51	30°℞♓	
min. Earth dist.	-4668 Oct 21 j 16:52	29°♓02'09	0.64492 AU
asc. node	-4668 Oct 23 j 14:25	28°♓16'17	
opposition	-4668 Oct 24 j 15:06	27°♓51'23	0°02'25
greatest brilliancy	-4668 Oct 24 j 15:04	27°♓51'26	-1.5m
direct	-4668 Dec 02 j 14:12	18°♓34'25	
	-4667 Jan 20 j 15:27	0°♈	
	-4667 Mar 22 j 10:53	0°♉	
	-4667 May 11 j 23:08	0°♊	
	-4667 Jun 27 j 03:07	0°♋	
	-4667 Aug 09 j 04:08	0°♌	
evening set	-4667 Aug 27 j 12:13	13°♌20'54	
	-4667 Sep 18 j 19:44	0°♍	
max. Earth dist.	-4667 Sep 18 j 17:32	29°♌55'51	2.40755 AU
conjunction	-4667 Oct 24 j 02:58	27°♍05'28	0°00'21

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

minimum elong	-4667 Oct 24 j 02:57	27°♍05'26	0°00'22
behind sun begin	-4667 Oct 23 j 01:06	26°♍15'13	
behind sun end	-4667 Oct 25 j 04:48	27°♍55'40	
desc. node	-4667 Oct 24 j 14:18	27°♍27'28	
	-4667 Oct 27 j 20:42	0°♎	
	-4667 Dec 05 j 03:21	0°♏	
morning rise	-4667 Dec 28 j 07:29	18°♏09'42	
	-4666 Jan 12 j 12:46	0°♐	
	-4666 Feb 20 j 21:53	0°♑	
	-4666 Apr 03 j 02:29	0°♒	
	-4666 May 16 j 22:39	0°♓	
	-4666 Jul 03 j 19:49	0°♈	
	-4666 Aug 30 j 17:02	0°♉	
asc. node	-4666 Sep 10 j 15:42	4°♉16'26	
retrograde	-4666 Oct 19 j 10:08	12°♉06'23	
opposition	-4666 Nov 28 j 03:06	2°♉32'13	2°45'14
greatest brilliancy	-4666 Nov 28 j 03:32	2°♉31'46	-1.3m
min. Earth dist.	-4666 Nov 28 j 22:37	2°♉12'39	0.67099 AU
	-4666 Dec 04 j 12:48	30°℞♈	
direct	-4665 Jan 07 j 20:32	22°♈39'05	
	-4665 Feb 14 j 19:33	0°♉	
	-4665 Apr 18 j 17:11	0°♊	
	-4665 Jun 06 j 13:35	0°♋	
	-4665 Jul 20 j 09:55	0°♌	
	-4665 Aug 30 j 05:12	0°♍	
desc. node	-4665 Sep 11 j 11:49	9°♍20'18	
	-4665 Oct 08 j 04:15	0°♎	
evening set	-4665 Oct 28 j 01:13	15°♎35'48	
	-4665 Nov 15 j 08:02	0°♏	
	-4665 Dec 23 j 15:52	0°♐	
conjunction	-4664 Jan 01 j 11:15	6°♐48'10	-1°03'37
minimum elong	-4664 Jan 01 j 09:04	6°♐43'58	1°03'48
	-4664 Feb 01 j 00:47	0°♑	
max. Earth dist.	-4664 Feb 19 j 07:51	13°♑31'46	2.43091 AU
morning rise	-4664 Mar 06 j 11:39	25°♑14'06	
	-4664 Mar 13 j 03:45	0°♒	
	-4664 Apr 25 j 12:24	0°♓	
	-4664 Jun 10 j 11:23	0°♈	
asc. node	-4664 Jul 28 j 15:18	29°♈19'03	
	-4664 Jul 29 j 19:31	0°♉	
	-4664 Sep 24 j 19:37	0°♊	
retrograde	-4664 Nov 24 j 02:57	16°♊21'14	
opposition	-4663 Jan 01 j 11:23	7°♊33'24	4°40'32
greatest brilliancy	-4663 Jan 02 j 03:20	7°♊17'53	-1.5m
min. Earth dist.	-4663 Jan 06 j 01:50	5°♊45'53	0.63357 AU
	-4663 Jan 23 j 10:00	30°℞♉	
direct	-4663 Feb 11 j 13:52	27°♉34'22	
	-4663 Mar 03 j 22:48	0°♊	
	-4663 May 11 j 05:49	0°♋	
	-4663 Jun 27 j 07:48	0°♌	
desc. node	-4663 Jul 29 j 10:23	22°♌46'37	
	-4663 Aug 08 j 05:22	0°♍	
	-4663 Sep 16 j 15:41	0°♎	
	-4663 Oct 25 j 02:39	0°♏	
	-4663 Dec 02 j 17:28	0°♐	
evening set	-4662 Jan 02 j 18:09	23°♐32'47	
	-4662 Jan 11 j 10:13	0°♑	
	-4662 Feb 21 j 20:37	0°♒	
conjunction	-4662 Mar 03 j 03:38	6°♒32'05	-0°53'56
minimum elong	-4662 Mar 03 j 05:44	6°♒35'44	0°54'07
max. Earth dist.	-4662 Apr 04 j 17:37	28°♒54'42	2.55625 AU
	-4662 Apr 06 j 08:22	0°♓	
morning rise	-4662 Apr 27 j 00:06	13°♓46'12	
	-4662 May 21 j 21:01	0°♈	
asc. node	-4662 Jun 15 j 12:41	15°♈44'58	
	-4662 Jul 08 j 06:25	0°♉	
	-4662 Aug 26 j 18:41	0°♊	
	-4662 Oct 19 j 20:38	0°♋	
retrograde	-4661 Jan 07 j 17:29	25°♋45'10	
opposition	-4661 Feb 12 j 09:54	18°♋14'07	5°11'18
greatest brilliancy	-4661 Feb 13 j 20:36	17°♋42'42	-1.9m
min. Earth dist.	-4661 Feb 20 j 07:14	15°♋23'21	0.53527 AU
direct	-4661 Mar 23 j 17:30	9°♋05'06	
	-4661 May 27 j 01:17	0°♌	
desc. node	-4661 Jun 16 j 09:54	11°♌56'02	
	-4661 Jul 13 j 20:33	0°♍	
	-4661 Aug 24 j 10:21	0°♎	
	-4661 Oct 03 j 02:56	0°♏	
	-4661 Nov 11 j 16:52	0°♐	
	-4661 Dec 22 j 06:17	0°♑	
	-4660 Feb 02 j 10:57	0°♒	
evening set	-4660 Feb 26 j 06:43	16°♒22'32	
	-4660 Mar 17 j 12:24	0°♓	
conjunction	-4660 Apr 18 j 04:07	20°♓51'56	-0°08'09
minimum elong	-4660 Apr 18 j 04:28	20°♓52'30	0°08'12
behind sun begin	-4660 Apr 17 j 10:29	20°♓23'12	
behind sun end	-4660 Apr 18 j 22:27	21°♓21'47	
max. Earth dist.	-4660 May 02 j 05:35	29°♓59'36	2.64001 AU
asc. node	-4660 May 02 j 09:46	0°♈06'22	
	-4660 May 02 j 05:50	0°♈	
morning rise	-4660 Jun 05 j 15:18	22°♈03'56	
	-4660 Jun 18 j 02:44	0°♉	
	-4660 Aug 04 j 14:36	0°♊	
	-4660 Sep 21 j 15:31	0°♋	
	-4660 Nov 10 j 02:19	0°♌	
	-4659 Jan 03 j 18:27	0°♍	
retrograde	-4659 Mar 10 j 22:23	19°♍45'43	
opposition	-4659 Apr 11 j 10:02	14°♍13'27	1°32'19
greatest brilliancy	-4659 Apr 11 j 21:22	14°♍05'10	-2.7m
min. Earth dist.	-4659 Apr 17 j 21:13	12°♍20'03	0.40932 AU
desc. node	-4659 May 03 j 11:12	8°♍43'35	
direct	-4659 May 15 j 02:11	7°♍49'14	
	-4659 Jul 18 j 16:06	0°♎	
	-4659 Sep 03 j 20:33	0°♏	
	-4659 Oct 17 j 02:30	0°♐	
	-4659 Nov 29 j 01:58	0°♑	
	-4658 Jan 12 j 00:32	0°♒	
	-4658 Feb 26 j 07:20	0°♓	
asc. node	-4658 Mar 20 j 06:12	14°♓15'16	
evening set	-4658 Apr 09 j 19:51	27°♓29'10	
	-4658 Apr 13 j 18:00	0°♈	
conjunction	-4658 May 27 j 18:15	28°♈05'27	0°36'40
minimum elong	-4658 May 27 j 17:05	28°♈03'36	0°36'45
max. Earth dist.	-4658 May 26 j 12:57	27°♈18'45	2.67043 AU
	-4658 May 30 j 18:06	0°♉	
morning rise	-4658 Jul 12 j 09:57	27°♉18'47	
	-4658 Jul 16 j 14:04	0°♊	
	-4658 Aug 31 j 17:33	0°♋	
	-4658 Oct 16 j 01:04	0°♌	
	-4658 Nov 29 j 17:59	0°♍	
	-4657 Jan 13 j 10:35	0°♎	
	-4657 Feb 28 j 18:30	0°♏	
desc. node	-4657 Mar 21 j 13:21	12°♏20'37	
	-4657 Apr 27 j 12:29	0°♐	
retrograde	-4657 May 28 j 08:08	5°♐59'07	
min. Earth dist.	-4657 Jun 24 j 06:01	1°♐31'24	0.39509 AU
opposition	-4657 Jun 29 j 22:43	29°♏51'57	-6°04'02
greatest brilliancy	-4657 Jun 28 j 17:21	0°♐13'25	-2.8m
	-4657 Jun 29 j 11:42	30°℞♏	
direct	-4657 Jul 30 j 04:38	24°♏32'52	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4657 Aug 29 j 13:59	0°♐	
	-4657 Oct 30 j 11:45	0°♑	
	-4657 Dec 19 j 09:05	0°♒	
asc. node	-4656 Feb 05 j 03:39	29°♒41'13	
	-4656 Feb 05 j 15:42	0°♓	
	-4656 Mar 24 j 16:56	0°♈	
	-4656 May 11 j 10:21	0°♉	
evening set	-4656 May 17 j 18:29	4°♉01'10	
max. Earth dist.	-4656 Jun 18 j 11:40	24°♉19'07	2.64682 AU
	-4656 Jun 27 j 06:12	0°♊	
conjunction	-4656 Jul 03 j 11:46	4°♊03'22	1°05'54
minimum elong	-4656 Jul 03 j 10:49	4°♊01'49	1°06'07
	-4656 Aug 11 j 16:06	0°♋	
morning rise	-4656 Aug 18 j 07:44	4°♋29'13	
	-4656 Sep 24 j 10:53	0°♌	
	-4656 Nov 05 j 17:16	0°♍	
	-4656 Dec 16 j 19:28	0°♎	
	-4655 Jan 26 j 07:19	0°♏	
desc. node	-4655 Feb 05 j 12:57	7°♏34'46	
	-4655 Mar 08 j 04:09	0°♐	
	-4655 Apr 20 j 10:44	0°♑	
	-4655 Jun 12 j 18:20	0°♒	
retrograde	-4655 Jul 22 j 18:03	9°♒38'36	
min. Earth dist.	-4655 Aug 22 j 00:21	3°♒21'52	0.51266 AU
greatest brilliancy	-4655 Aug 28 j 10:23	0°♒58'36	-2.1m
opposition	-4655 Aug 29 j 14:12	0°♒32'36	-4°43'13
	-4655 Aug 31 j 01:19	30°℞♑	
direct	-4655 Oct 03 j 00:35	23°♑04'21	
	-4655 Nov 07 j 18:04	0°♒	
asc. node	-4655 Dec 23 j 03:42	20°♒13'26	
	-4654 Jan 10 j 12:55	0°♓	
	-4654 Mar 03 j 22:19	0°♈	
	-4654 Apr 22 j 10:21	0°♉	
	-4654 Jun 08 j 20:47	0°♊	
evening set	-4654 Jun 25 j 18:14	11°♊01'14	
max. Earth dist.	-4654 Jul 16 j 00:02	24°♊29'11	2.57169 AU
	-4654 Jul 24 j 03:50	0°♋	
conjunction	-4654 Aug 13 j 00:23	13°♋37'48	1°08'03
minimum elong	-4654 Aug 13 j 01:17	13°♋39'22	1°08'17
	-4654 Sep 05 j 06:57	0°♌	
morning rise	-4654 Oct 01 j 23:38	19°♌17'25	
	-4654 Oct 16 j 12:09	0°♍	
	-4654 Nov 25 j 07:05	0°♎	
desc. node	-4654 Dec 24 j 12:11	22°♎25'58	
	-4653 Jan 03 j 07:46	0°♏	
	-4653 Feb 11 j 09:42	0°♐	
	-4653 Mar 23 j 13:40	0°♑	
	-4653 May 05 j 07:38	0°♒	
	-4653 Jun 23 j 02:44	0°♓	
retrograde	-4653 Sep 01 j 14:51	23°♓34'30	
min. Earth dist.	-4653 Oct 07 j 00:23	15°♓22'40	0.61814 AU
opposition	-4653 Oct 11 j 09:09	13°♓37'47	-1°12'02
greatest brilliancy	-4653 Oct 11 j 05:00	13°♓41'55	-1.6m
asc. node	-4653 Nov 10 j 04:56	5°♓08'56	
direct	-4653 Nov 18 j 07:25	4°♓43'05	
	-4652 Feb 05 j 15:44	0°♈	
	-4652 Mar 31 j 11:17	0°♉	
	-4652 May 19 j 15:28	0°♊	
	-4652 Jul 04 j 09:58	0°♋	
evening set	-4652 Aug 07 j 15:14	23°♋44'14	
	-4652 Aug 16 j 09:43	0°♌	
max. Earth dist.	-4652 Aug 23 j 11:14	5°♌05'44	2.45560 AU
	-4652 Sep 26 j 03:40	0°♍	
conjunction	-4652 Sep 30 j 12:42	3°♍18'13	0°28'20
minimum elong	-4652 Sep 30 j 14:26	3°♍21'28	0°28'27
	-4652 Nov 04 j 07:59	0°♎	
desc. node	-4652 Nov 10 j 10:04	4°♎43'49	
morning rise	-4652 Nov 29 j 22:01	19°♎57'29	
	-4652 Dec 12 j 17:47	0°♏	
	-4651 Jan 20 j 05:28	0°♐	
	-4651 Feb 28 j 16:19	0°♑	
	-4651 Apr 11 j 00:25	0°♒	
	-4651 May 25 j 08:16	0°♓	
	-4651 Jul 14 j 02:00	0°♈	
asc. node	-4651 Sep 27 j 05:39	28°♈45'27	
retrograde	-4651 Oct 05 j 23:21	29°♈13'53	
opposition	-4651 Nov 14 j 21:58	19°♈27'45	1°47'20
min. Earth dist.	-4651 Nov 14 j 05:57	19°♈43'53	0.66824 AU
greatest brilliancy	-4651 Nov 14 j 19:59	19°♈29'45	-1.4m
direct	-4651 Dec 25 j 02:28	9°♈45'36	
	-4650 Mar 04 j 02:21	0°♉	
	-4650 Apr 28 j 03:52	0°♊	
	-4650 Jun 14 j 14:30	0°♋	
	-4650 Jul 28 j 00:50	0°♌	
	-4650 Sep 06 j 17:47	0°♍	
desc. node	-4650 Sep 28 j 06:20	16°♍27'09	
evening set	-4650 Oct 02 j 03:13	19°♍26'40	
	-4650 Oct 15 j 16:51	0°♎	
	-4650 Nov 22 j 21:02	0°♏	
conjunction	-4650 Dec 04 j 16:47	9°♏18'09	-0°45'12
minimum elong	-4650 Dec 04 j 13:29	9°♏11'41	0°45'18
	-4650 Dec 31 j 04:34	0°♐	
max. Earth dist.	-4649 Jan 07 j 09:26	5°♐34'24	2.38507 AU
	-4649 Feb 08 j 12:15	0°♑	
morning rise	-4649 Feb 10 j 08:18	1°♑22'20	
	-4649 Mar 21 j 14:01	0°♒	
	-4649 May 03 j 23:59	0°♓	
	-4649 Jun 19 j 09:17	0°♈	
	-4649 Aug 09 j 10:02	0°♉	
asc. node	-4649 Aug 15 j 06:23	3°♉09'23	
	-4649 Oct 18 j 08:48	0°♊	
retrograde	-4649 Nov 10 j 07:40	2°♊56'33	
	-4649 Dec 01 j 13:55	30°℞♉	
opposition	-4649 Dec 19 j 08:02	23°♉47'38	4°02'30
greatest brilliancy	-4649 Dec 19 j 16:38	23°♉39'09	-1.4m
min. Earth dist.	-4649 Dec 22 j 10:53	22°♉33'42	0.65580 AU
direct	-4648 Jan 29 j 11:29	13°♉46'29	
	-4648 Mar 28 j 12:43	0°♊	
	-4648 May 21 j 20:46	0°♋	
	-4648 Jul 06 j 03:18	0°♌	
desc. node	-4648 Aug 15 j 03:25	29°♌01'20	
	-4648 Aug 16 j 10:44	0°♍	
	-4648 Sep 24 j 14:42	0°♎	
	-4648 Nov 01 j 21:31	0°♏	
evening set	-4648 Dec 08 j 07:16	28°♏25'04	
	-4648 Dec 10 j 08:25	0°♐	
	-4647 Jan 18 j 20:51	0°♑	
conjunction	-4647 Feb 09 j 03:00	15°♑38'12	-1°05'24
minimum elong	-4647 Feb 09 j 04:27	15°♑40'50	1°05'38
	-4647 Mar 01 j 03:02	0°♒	
max. Earth dist.	-4647 Mar 21 j 16:42	14°♒25'11	2.51053 AU
morning rise	-4647 Apr 08 j 17:17	26°♒46'15	
	-4647 Apr 13 j 11:52	0°♓	
	-4647 May 29 j 01:46	0°♈	
asc. node	-4647 Jul 02 j 05:53	21°♈34'38	
	-4647 Jul 15 j 22:31	0°♉	
	-4647 Sep 05 j 02:07	0°♊	
	-4647 Nov 05 j 19:37	0°♋	
retrograde	-4647 Dec 19 j 21:28	9°♋32'13	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

opposition	-4646 Jan 25 j 19:12	1°♋26'06	5°14'56
greatest brilliancy	-4646 Jan 26 j 23:43	0°♋59'17	-1.7m
	-4646 Jan 29 j 14:33	30°℞♊	
min. Earth dist.	-4646 Feb 01 j 13:19	28°♊53'53	0.58034 AU
direct	-4646 Mar 07 j 03:55	21°♊47'11	
	-4646 Apr 14 j 13:45	0°♋	
	-4646 Jun 10 j 09:25	0°♌	
desc. node	-4646 Jul 03 j 03:14	14°♌59'25	
	-4646 Jul 24 j 11:43	0°♍	
	-4646 Sep 02 j 19:56	0°♎	
	-4646 Oct 11 j 20:09	0°♏	
	-4646 Nov 19 j 21:47	0°♐	
	-4646 Dec 30 j 00:29	0°♑	
evening set	-4645 Feb 06 j 18:36	27°♑51'09	
	-4645 Feb 09 j 19:59	0°♒	
	-4645 Mar 25 j 14:22	0°♓	
conjunction	-4645 Apr 02 j 03:12	5°♓02'09	-0°27'01
minimum elong	-4645 Apr 02 j 04:25	5°♓04'11	0°27'08
max. Earth dist.	-4645 Apr 22 j 21:28	18°♓44'55	2.61343 AU
	-4645 May 10 j 04:17	0°♈	
asc. node	-4645 May 20 j 02:26	6°♈24'14	
morning rise	-4645 May 22 j 14:05	8°♈00'06	
	-4645 Jun 26 j 03:29	0°♉	
	-4645 Aug 13 j 04:17	0°♊	
	-4645 Oct 01 j 15:57	0°♋	
	-4645 Nov 24 j 05:12	0°♌	
retrograde	-4644 Feb 12 j 01:58	26°♌11'39	
opposition	-4644 Mar 16 j 09:57	19°♌50'06	3°47'45
greatest brilliancy	-4644 Mar 17 j 16:14	19°♌25'29	-2.4m
min. Earth dist.	-4644 Mar 24 j 18:11	17°♌08'31	0.45611 AU
direct	-4644 Apr 21 j 20:02	12°♌07'09	
desc. node	-4644 May 20 j 03:51	17°♌11'39	
	-4644 Jun 17 j 21:24	0°♍	
	-4644 Aug 04 j 23:32	0°♎	
	-4644 Sep 16 j 03:44	0°♏	
	-4644 Oct 27 j 05:57	0°♐	
	-4644 Dec 07 j 21:49	0°♑	
	-4643 Jan 19 j 22:51	0°♒	
	-4643 Mar 05 j 15:03	0°♓	
evening set	-4643 Mar 24 j 17:46	12°♓32'06	
asc. node	-4643 Apr 05 j 22:50	20°♓28'16	
	-4643 Apr 20 j 17:03	0°♈	
conjunction	-4643 May 12 j 20:16	14°♈11'54	0°20'33
minimum elong	-4643 May 12 j 19:31	14°♈10'41	0°20'35
max. Earth dist.	-4643 May 17 j 09:45	17°♈06'51	2.66510 AU
	-4643 Jun 06 j 14:18	0°♉	
morning rise	-4643 Jun 28 j 05:27	13°♉47'36	
	-4643 Jul 23 j 14:22	0°♊	
	-4643 Sep 08 j 06:53	0°♋	
	-4643 Oct 24 j 16:28	0°♌	
	-4643 Dec 10 j 09:12	0°♍	
	-4642 Jan 28 j 01:57	0°♎	
	-4642 Mar 30 j 06:07	0°♏	
desc. node	-4642 Apr 07 j 05:13	2°♏20'49	
retrograde	-4642 Apr 29 j 03:47	5°♏17'23	
opposition	-4642 May 29 j 18:43	0°♏08'15	-3°50'48
min. Earth dist.	-4642 May 28 j 18:09	0°♏24'35	0.37728 AU
greatest brilliancy	-4642 May 29 j 12:53	0°♏12'08	-2.9m
	-4642 May 30 j 07:07	30°℞♎	
direct	-4642 Jun 28 j 18:49	25°♎07'30	
	-4642 Jul 27 j 01:20	0°♏	
	-4642 Sep 25 j 15:46	0°♐	
	-4642 Nov 12 j 13:31	0°♑	
	-4642 Dec 28 j 23:53	0°♒	
	-4641 Feb 13 j 17:03	0°♓	
asc. node	-4641 Feb 21 j 19:42	5°♓10'06	
	-4641 Apr 01 j 23:16	0°♈	
evening set	-4641 May 03 j 20:43	20°♈11'00	
	-4641 May 19 j 07:57	0°♉	
max. Earth dist.	-4641 Jun 09 j 23:44	13°♉49'05	2.66262 AU
conjunction	-4641 Jun 19 j 18:00	20°♉04'55	0°57'05
minimum elong	-4641 Jun 19 j 16:45	20°♉02'54	0°57'15
	-4641 Jul 05 j 02:36	0°♊	
morning rise	-4641 Aug 04 j 02:57	19°♊37'58	
	-4641 Aug 19 j 17:50	0°♋	
	-4641 Oct 02 j 23:59	0°♌	
	-4641 Nov 14 j 23:28	0°♍	
	-4641 Dec 26 j 23:50	0°♎	
	-4640 Feb 06 j 16:18	0°♏	
desc. node	-4640 Feb 23 j 07:27	11°♏51'20	
	-4640 Mar 20 j 09:49	0°♐	
	-4640 May 07 j 15:55	0°♑	
retrograde	-4640 Jul 03 j 11:43	18°♑07'02	
min. Earth dist.	-4640 Jul 31 j 13:36	12°♑44'51	0.46243 AU
greatest brilliancy	-4640 Aug 07 j 04:08	10°♑28'02	-2.3m
opposition	-4640 Aug 08 j 17:19	9°♑55'38	-5°54'41
direct	-4640 Sep 10 j 10:49	3°♑16'21	
	-4640 Nov 28 j 12:48	0°♒	
asc. node	-4639 Jan 08 j 18:01	22°♒52'20	
	-4639 Jan 20 j 23:25	0°♓	
	-4639 Mar 12 j 01:28	0°♈	
	-4639 Apr 29 j 16:25	0°♉	
evening set	-4639 Jun 10 j 08:33	26°♉28'19	
	-4639 Jun 15 j 19:23	0°♊	
max. Earth dist.	-4639 Jul 04 j 16:57	12°♊21'33	2.60698 AU
conjunction	-4639 Jul 27 j 14:35	27°♊38'10	1°11'19
minimum elong	-4639 Jul 27 j 14:38	27°♊38'14	1°11'33
	-4639 Jul 31 j 02:33	0°♋	
	-4639 Sep 12 j 10:38	0°♌	
morning rise	-4639 Sep 13 j 07:33	0°♌37'01	
	-4639 Oct 24 j 00:08	0°♍	
	-4639 Dec 03 j 05:00	0°♎	
desc. node	-4638 Jan 10 j 06:33	28°♎56'18	
	-4638 Jan 11 j 15:58	0°♏	
	-4638 Feb 20 j 04:52	0°♐	
	-4638 Apr 02 j 00:12	0°♑	
	-4638 May 16 j 06:17	0°♒	
	-4638 Jul 11 j 12:39	0°♓	
retrograde	-4638 Aug 17 j 18:49	8°♓07'54	
min. Earth dist.	-4638 Sep 20 j 07:37	0°♓36'14	0.58222 AU
	-4638 Sep 21 j 20:36	30°℞♒	
opposition	-4638 Sep 26 j 01:50	28°♒19'58	-2°32'16
greatest brilliancy	-4638 Sep 25 j 14:14	28°♒31'25	-1.8m
direct	-4638 Nov 01 j 18:16	19°♒53'30	
asc. node	-4638 Nov 26 j 18:46	23°♒23'59	
	-4638 Dec 16 j 21:48	0°♓	
	-4637 Feb 16 j 18:35	0°♈	
	-4637 Apr 09 j 16:48	0°♉	
	-4637 May 28 j 00:09	0°♊	
	-4637 Jul 12 j 12:39	0°♋	
evening set	-4637 Jul 21 j 15:39	6°♋13'45	
max. Earth dist.	-4637 Aug 06 j 11:20	17°♋12'04	2.50422 AU
	-4637 Aug 24 j 12:46	0°♌	
conjunction	-4637 Sep 10 j 17:05	12°♌26'09	0°49'33
minimum elong	-4637 Sep 10 j 19:02	12°♌29'45	0°49'43
	-4637 Oct 04 j 10:17	0°♍	
morning rise	-4637 Nov 05 j 05:18	24°♍09'17	
	-4637 Nov 12 j 19:22	0°♎	
desc. node	-4637 Nov 28 j 03:34	11°♎53'02	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4637 Dec 21 j 09:50	0°♏	
	-4636 Jan 29 j 01:40	0°♐	
	-4636 Mar 08 j 16:40	0°♑	
	-4636 Apr 19 j 08:10	0°♒	
	-4636 Jun 03 j 13:32	0°♓	
	-4636 Jul 27 j 04:37	0°♈	
retrograde	-4636 Sep 22 j 12:15	16°♈02'34	
asc. node	-4636 Oct 13 j 20:47	12°♈55'34	
min. Earth dist.	-4636 Oct 30 j 09:00	7°♈00'07	0.65574 AU
opposition	-4636 Nov 01 j 12:23	6°♈08'19	0°42'50
greatest brilliancy	-4636 Nov 01 j 10:41	6°♈10'01	-1.4m
	-4636 Nov 18 j 11:33	30°℞♓	
direct	-4636 Dec 10 j 23:03	26°♓41'20	
	-4635 Jan 04 j 13:31	0°♈	
	-4635 Mar 15 j 21:33	0°♉	
	-4635 May 06 j 16:05	0°♊	
	-4635 Jun 22 j 06:18	0°♋	
	-4635 Aug 04 j 10:51	0°♌	
evening set	-4635 Sep 08 j 16:19	25°♌53'18	
	-4635 Sep 14 j 03:19	0°♍	
max. Earth dist.	-4635 Oct 13 j 09:29	22°♍24'46	2.38615 AU
desc. node	-4635 Oct 15 j 00:24	23°♍40'14	
	-4635 Oct 23 j 03:36	0°♎	
conjunction	-4635 Nov 07 j 13:02	12°♎02'41	-0°16'58
minimum elong	-4635 Nov 07 j 11:35	11°♎59'51	0°16'59
	-4635 Nov 30 j 09:01	0°♏	
	-4634 Jan 07 j 17:09	0°♐	
morning rise	-4634 Jan 13 j 13:52	4°♐32'16	
	-4634 Feb 16 j 00:46	0°♑	
	-4634 Mar 29 j 02:58	0°♒	
	-4634 May 11 j 17:21	0°♓	
	-4634 Jun 27 j 20:34	0°♈	
	-4634 Aug 21 j 01:10	0°♉	
asc. node	-4634 Aug 31 j 21:36	5°♉03'35	
retrograde	-4634 Oct 27 j 07:17	19°♉57'13	
opposition	-4634 Dec 05 j 19:10	10°♉31'07	3°15'49
greatest brilliancy	-4634 Dec 05 j 21:58	10°♉28'20	-1.3m
min. Earth dist.	-4634 Dec 07 j 10:04	9°♉52'19	0.66822 AU
direct	-4633 Jan 15 j 17:29	0°♉33'58	
	-4633 Apr 11 j 18:16	0°♊	
	-4633 Jun 01 j 00:54	0°♋	
	-4633 Jul 15 j 07:58	0°♌	
	-4633 Aug 25 j 07:40	0°♍	
desc. node	-4633 Sep 01 j 21:23	5°♍43'54	
	-4633 Oct 03 j 08:31	0°♎	
	-4633 Nov 10 j 13:09	0°♏	
evening set	-4633 Nov 12 j 07:00	1°♏22'19	
	-4633 Dec 18 j 21:34	0°♐	
conjunction	-4632 Jan 16 j 10:45	21°♐51'29	-1°07'50
minimum elong	-4632 Jan 16 j 10:03	21°♐50'10	1°08'03
	-4632 Jan 27 j 06:46	0°♑	
max. Earth dist.	-4632 Mar 03 j 18:13	26°♑41'16	2.45955 AU
	-4632 Mar 08 j 09:37	0°♒	
morning rise	-4632 Mar 19 j 06:12	7°♒40'25	
	-4632 Apr 20 j 16:54	0°♓	
	-4632 Jun 05 j 10:36	0°♈	
asc. node	-4632 Jul 18 j 21:02	26°♈54'04	
	-4632 Jul 24 j 01:40	0°♉	
	-4632 Sep 16 j 01:40	0°♊	
retrograde	-4632 Dec 03 j 02:18	24°♊47'34	
opposition	-4631 Jan 09 j 23:37	16°♊13'09	4°57'17
greatest brilliancy	-4631 Jan 10 j 20:05	15°♊53'25	-1.5m
min. Earth dist.	-4631 Jan 15 j 08:57	14°♊08'31	0.61700 AU
direct	-4631 Feb 19 j 21:55	6°♊18'34	
	-4631 May 03 j 04:16	0°♋	
	-4631 Jun 21 j 05:48	0°♌	
desc. node	-4631 Jul 19 j 19:21	19°♌51'44	
	-4631 Aug 02 j 17:51	0°♍	
	-4631 Sep 11 j 10:33	0°♎	
	-4631 Oct 20 j 01:18	0°♏	
	-4631 Nov 27 j 19:11	0°♐	
	-4630 Jan 06 j 14:29	0°♑	
evening set	-4630 Jan 16 j 03:03	7°♑00'14	
	-4630 Feb 17 j 03:03	0°♒	
conjunction	-4630 Mar 14 j 13:47	17°♒42'14	-0°44'55
minimum elong	-4630 Mar 14 j 15:43	17°♒45'34	0°45'04
	-4630 Apr 01 j 16:02	0°♓	
max. Earth dist.	-4630 Apr 11 j 18:52	6°♓46'46	2.57873 AU
morning rise	-4630 May 06 j 15:34	23°♓10'19	
	-4630 May 17 j 03:54	0°♈	
asc. node	-4630 Jun 05 j 19:03	12°♈36'25	
	-4630 Jul 03 j 08:00	0°♉	
	-4630 Aug 21 j 04:14	0°♊	
	-4630 Oct 12 j 00:47	0°♋	
	-4630 Dec 15 j 21:50	0°♌	
retrograde	-4629 Jan 19 j 11:55	6°♌15'19	
	-4629 Feb 20 j 20:57	30°℞♋	
opposition	-4629 Feb 23 j 10:21	29°♋06'40	4°54'30
greatest brilliancy	-4629 Feb 24 j 22:11	28°♋35'09	-2.1m
min. Earth dist.	-4629 Mar 03 j 18:33	26°♋11'48	0.50778 AU
direct	-4629 Apr 02 j 22:05	20°♋21'59	
	-4629 May 13 j 16:28	0°♌	
desc. node	-4629 Jun 06 j 20:50	12°♌01'50	
	-4629 Jul 06 j 04:13	0°♍	
	-4629 Aug 18 j 01:05	0°♎	
	-4629 Sep 27 j 07:52	0°♏	
	-4629 Nov 06 j 07:07	0°♐	
	-4629 Dec 17 j 03:28	0°♑	
	-4628 Jan 28 j 13:36	0°♒	
evening set	-4628 Mar 07 j 16:15	26°♒35'16	
	-4628 Mar 12 j 19:04	0°♓	
asc. node	-4628 Apr 22 j 14:37	26°♓45'58	
conjunction	-4628 Apr 27 j 10:06	29°♓52'39	0°02'47
minimum elong	-4628 Apr 27 j 09:57	29°♓52'26	0°02'45
behind sun begin	-4628 Apr 26 j 13:53	29°♓20'01	
behind sun end	-4628 Apr 28 j 06:02	0°♈24'50	
	-4628 Apr 27 j 14:40	0°♈	
max. Earth dist.	-4628 May 07 j 21:51	6°♈38'20	2.65142 AU
morning rise	-4628 Jun 13 j 23:43	0°♉20'27	
	-4628 Jun 13 j 10:51	0°♉	
	-4628 Jul 30 j 17:33	0°♊	
	-4628 Sep 16 j 04:31	0°♋	
	-4628 Nov 03 j 06:00	0°♌	
	-4628 Dec 23 j 16:51	0°♍	
	-4627 Feb 25 j 06:51	0°♎	
retrograde	-4627 Mar 28 j 01:53	5°♎19'28	
desc. node	-4627 Apr 23 j 22:38	1°♎13'03	
opposition	-4627 Apr 27 j 22:09	0°♎07'31	-0°17'42
greatest brilliancy	-4627 Apr 27 j 23:12	0°♎06'48	-2.9m
	-4627 Apr 28 j 08:57	30°℞♍	
min. Earth dist.	-4627 May 02 j 05:04	28°♍56'04	0.39046 AU
direct	-4627 May 29 j 22:47	24°♍24'31	
	-4627 Jun 28 j 19:11	0°♎	
	-4627 Aug 25 j 10:36	0°♏	
	-4627 Oct 10 j 00:24	0°♐	
	-4627 Nov 23 j 02:41	0°♑	
	-4626 Jan 06 j 16:40	0°♒	
	-4626 Feb 21 j 08:59	0°♓	
asc. node	-4626 Mar 10 j 10:40	11°♓01'48	
	-4626 Apr 09 j 01:18	0°♈	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

evening set	-4626 Apr 18 j 18:00	6°♈10'57		
	-4626 May 26 j 03:49	0°♉		
max. Earth dist.	-4626 May 31 j 21:47	3°♉39'52	2.66999 AU	
conjunction	-4626 Jun 05 j 04:39	6°♉23'59	0°45'00	
minimum elong	-4626 Jun 05 j 03:23	6°♉21'56	0°45'06	
	-4626 Jul 11 j 23:07	0°♊		
morning rise	-4626 Jul 20 j 14:33	5°♊35'43		
	-4626 Aug 26 j 21:42	0°♋		
	-4626 Oct 10 j 18:55	0°♌		
	-4626 Nov 23 j 18:13	0°♍		
	-4625 Jan 06 j 05:19	0°♎		
	-4625 Feb 19 j 03:41	0°♏		
desc. node	-4625 Mar 11 j 23:29	13°♏40'04		
	-4625 Apr 07 j 19:43	0°♐		
retrograde	-4625 Jun 11 j 20:58	22°♐33'47		
min. Earth dist.	-4625 Jul 08 j 15:03	17°♐55'54	0.41559 AU	
greatest brilliancy	-4625 Jul 14 j 08:08	16°♐09'36	-2.6m	
opposition	-4625 Jul 15 j 21:25	15°♐40'31	-6°25'02	
direct	-4625 Aug 15 j 19:35	9°♐55'21		
	-4625 Oct 19 j 18:08	0°♑		
	-4625 Dec 12 j 13:12	0°♒		
asc. node	-4624 Jan 26 j 09:33	27°♒06'24		
	-4624 Jan 31 j 02:52	0°♓		
	-4624 Mar 19 j 18:07	0°♈		
	-4624 May 06 j 18:06	0°♉		
evening set	-4624 May 26 j 07:53	12°♉24'33		
	-4624 Jun 22 j 16:26	0°♊		
max. Earth dist.	-4624 Jun 24 j 06:29	1°♊01'48	2.63489 AU	
conjunction	-4624 Jul 12 j 02:38	12°♊42'11	1°09'13	
minimum elong	-4624 Jul 12 j 01:58	12°♊41'06	1°09'27	
	-4624 Aug 07 j 01:32	0°♋		
morning rise	-4624 Aug 27 j 09:49	13°♋50'31		
	-4624 Sep 19 j 16:33	0°♌		
	-4624 Oct 31 j 16:33	0°♍		
	-4624 Dec 11 j 10:11	0°♎		
	-4623 Jan 20 j 11:12	0°♏		
desc. node	-4623 Jan 26 j 23:46	4°♏53'38		
	-4623 Mar 01 j 17:06	0°♐		
	-4623 Apr 12 j 17:03	0°♑		
	-4623 May 30 j 12:18	0°♒		
retrograde	-4623 Aug 01 j 16:41	20°♒55'13		
min. Earth dist.	-4623 Sep 02 j 04:34	14°♒09'40	0.53913 AU	
greatest brilliancy	-4623 Sep 08 j 06:54	11°♒49'42	-1.9m	
opposition	-4623 Sep 09 j 04:32	11°♒28'56	-3°56'03	
direct	-4623 Oct 14 j 10:52	3°♒37'33		
asc. node	-4623 Dec 13 j 09:52	20°♒12'34		
	-4622 Jan 02 j 16:22	0°♓		
	-4622 Feb 26 j 05:36	0°♈		
	-4622 Apr 17 j 10:44	0°♉		
	-4622 Jun 04 j 04:04	0°♊		
evening set	-4622 Jul 04 j 22:16	20°♊09'45		
	-4622 Jul 19 j 13:16	0°♋		
max. Earth dist.	-4622 Jul 23 j 06:46	2°♋32'07	2.54937 AU	
conjunction	-4622 Aug 22 j 23:31	23°♋50'18	1°03'19	
minimum elong	-4622 Aug 23 j 00:54	23°♋52'44	1°03'32	
	-4622 Aug 31 j 15:45	0°♌		
	-4622 Oct 11 j 18:33	0°♍		
morning rise	-4622 Oct 13 j 14:22	1°♍21'38		
	-4622 Nov 20 j 10:06	0°♎		
desc. node	-4622 Dec 14 j 22:16	18°♎53'06		
	-4622 Dec 29 j 06:45	0°♏		
	-4621 Feb 06 j 04:13	0°♐		
	-4621 Mar 18 j 01:44	0°♑		
	-4621 Apr 29 j 06:01	0°♒		
	-4621 Jun 15 j 03:44	0°♓		
	-4621 Aug 21 j 12:51	0°♈		
retrograde	-4621 Sep 09 j 18:00	2°♈16'47		
	-4621 Sep 27 j 19:32	30°℞♓		
min. Earth dist.	-4621 Oct 16 j 01:46	23°♓45'45	0.63401 AU	
opposition	-4621 Oct 19 j 16:03	22°♓18'59	-0°28'02	
greatest brilliancy	-4621 Oct 19 j 14:47	22°♓20'16	-1.5m	
asc. node	-4621 Oct 31 j 10:57	17°♓52'13		
direct	-4621 Nov 27 j 04:41	13°♓11'29		
	-4620 Jan 27 j 20:26	0°♈		
	-4620 Mar 25 j 15:51	0°♉		
	-4620 May 14 j 14:41	0°♊		
	-4620 Jun 29 j 15:47	0°♋		
	-4620 Aug 11 j 17:23	0°♌		
evening set	-4620 Aug 18 j 16:28	5°♌01'15		
max. Earth dist.	-4620 Sep 05 j 16:38	18°♌12'59	2.42834 AU	
	-4620 Sep 21 j 11:01	0°♍		
conjunction	-4620 Oct 13 j 13:00	16°♍49'12	0°13'03	
minimum elong	-4620 Oct 13 j 13:56	16°♍51'01	0°13'06	
behind sun begin	-4620 Oct 12 j 22:41	16°♍21'42		
behind sun end	-4620 Oct 14 j 05:12	17°♍20'21		
	-4620 Oct 30 j 14:03	0°♎		
desc. node	-4620 Oct 31 j 18:16	0°♎54'53		
	-4620 Dec 07 j 22:08	0°♏		
morning rise	-4620 Dec 15 j 17:12	6°♏06'46		
	-4619 Jan 15 j 08:14	0°♐		
	-4619 Feb 23 j 17:12	0°♑		
	-4619 Apr 05 j 21:39	0°♒		
	-4619 May 19 j 20:21	0°♓		
	-4619 Jul 07 j 06:22	0°♈		
	-4619 Sep 07 j 04:54	0°♉		
asc. node	-4619 Sep 17 j 12:28	3°♉13'24		
retrograde	-4619 Oct 13 j 16:50	7°♉04'49		
	-4619 Nov 15 j 23:41	30°℞♈		
opposition	-4619 Nov 22 j 12:34	27°♈24'45	2°21'47	
greatest brilliancy	-4619 Nov 22 j 11:35	27°♈25'44	-1.3m	
min. Earth dist.	-4619 Nov 22 j 15:41	27°♈21'37	0.67097 AU	
direct	-4618 Jan 02 j 00:44	17°♈36'09		
	-4618 Feb 22 j 08:36	0°♉		
	-4618 Apr 22 j 04:16	0°♊		
	-4618 Jun 09 j 10:41	0°♋		
	-4618 Jul 23 j 03:47	0°♌		
	-4618 Sep 01 j 23:01	0°♍		
desc. node	-4618 Sep 18 j 15:44	12°♍43'31		
	-4618 Oct 10 j 22:31	0°♎		
evening set	-4618 Oct 16 j 12:13	4°♎21'31		
	-4618 Nov 18 j 02:20	0°♏		
conjunction	-4618 Dec 20 j 11:16	25°♏23'36	-0°57'16	
minimum elong	-4618 Dec 20 j 08:13	25°♏17'40	0°57'26	
	-4618 Dec 26 j 09:31	0°♐		
	-4617 Feb 03 j 16:56	0°♑		
max. Earth dist.	-4617 Feb 05 j 14:27	1°♑25'07	2.40845 AU	
morning rise	-4617 Feb 24 j 23:40	15°♑44'24		
	-4617 Mar 16 j 17:59	0°♒		
	-4617 Apr 29 j 01:38	0°♓		
	-4617 Jun 14 j 02:44	0°♈		
	-4617 Aug 02 j 23:23	0°♉		
asc. node	-4617 Aug 05 j 12:45	1°♉26'58		
	-4617 Oct 02 j 00:18	0°♊		
retrograde	-4617 Nov 18 j 16:45	11°♊00'05		
opposition	-4617 Dec 27 j 08:32	2°♊02'11	4°25'26	
greatest brilliancy	-4617 Dec 27 j 21:01	1°♊49'56	-1.4m	
min. Earth dist.	-4617 Dec 31 j 06:37	0°♊29'55	0.64485 AU	
	-4616 Jan 01 j 13:23	30°℞♉		
direct	-4616 Feb 06 j 12:01	22°♉01'27		

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4616 Mar 16 j 12:06	0°♊	
	-4616 May 15 j 08:34	0°♋	
	-4616 Jun 30 j 15:20	0°♌	
desc. node	-4616 Aug 05 j 14:27	25°♌45'44	
	-4616 Aug 11 j 07:26	0°♍	
	-4616 Sep 19 j 15:20	0°♎	
	-4616 Oct 28 j 00:09	0°♏	
	-4616 Dec 05 j 12:32	0°♐	
evening set	-4616 Dec 22 j 22:48	13°♐20'52	
	-4615 Jan 14 j 02:13	0°♑	
conjunction	-4615 Feb 21 j 22:59	28°♑16'31	-0°59'37
minimum elong	-4615 Feb 22 j 00:59	28°♑20'04	0°59'49
	-4615 Feb 24 j 09:16	0°♒	
max. Earth dist.	-4615 Mar 30 j 05:49	23°♒32'27	2.53657 AU
	-4615 Apr 08 j 18:20	0°♓	
morning rise	-4615 Apr 19 j 09:44	7°♓08'35	
	-4615 May 24 j 06:01	0°♈	
asc. node	-4615 Jun 22 j 10:25	18°♈34'37	
	-4615 Jul 10 j 18:40	0°♉	
	-4615 Aug 29 j 20:20	0°♊	
	-4615 Oct 25 j 03:28	0°♋	
retrograde	-4615 Dec 30 j 07:10	19°♋00'01	
opposition	-4614 Feb 04 j 13:44	11°♋12'15	5°15'36
greatest brilliancy	-4614 Feb 05 j 21:58	10°♋42'29	-1.8m
min. Earth dist.	-4614 Feb 11 j 23:58	8°♋28'18	0.55642 AU
direct	-4614 Mar 16 j 10:03	1°♋47'56	
	-4614 Jun 02 j 05:56	0°♌	
desc. node	-4614 Jun 23 j 13:43	13°♌17'47	
	-4614 Jul 18 j 03:00	0°♍	
	-4614 Aug 28 j 02:47	0°♎	
	-4614 Oct 06 j 11:13	0°♏	
	-4614 Nov 14 j 18:38	0°♐	
	-4614 Dec 25 j 01:58	0°♑	
	-4613 Feb 05 j 00:57	0°♒	
evening set	-4613 Feb 18 j 02:28	9°♒04'09	
	-4613 Mar 20 j 21:54	0°♓	
conjunction	-4613 Apr 12 j 00:49	14°♓40'37	-0°16'07
minimum elong	-4613 Apr 12 j 01:32	14°♓41'48	0°16'11
max. Earth dist.	-4613 Apr 28 j 23:54	25°♓46'00	2.62906 AU
	-4613 May 05 j 12:31	0°♈	
asc. node	-4613 May 10 j 07:24	3°♈05'39	
morning rise	-4613 May 31 j 07:33	16°♈35'05	
	-4613 Jun 21 j 09:35	0°♉	
	-4613 Aug 08 j 02:19	0°♊	
	-4613 Sep 25 j 16:14	0°♋	
	-4613 Nov 15 j 12:26	0°♌	
	-4612 Jan 15 j 05:26	0°♍	
retrograde	-4612 Feb 27 j 06:11	9°♍23'58	
opposition	-4612 Mar 30 j 12:33	3°♍30'28	2°40'22
greatest brilliancy	-4612 Mar 31 j 09:45	3°♍14'12	-2.6m
min. Earth dist.	-4612 Apr 07 j 03:16	1°♍10'36	0.42885 AU
	-4612 Apr 11 j 05:11	30°℞♌	
direct	-4612 May 04 j 12:27	26°♌29'53	
desc. node	-4612 May 10 j 14:30	26°♌45'07	
	-4612 May 27 j 15:31	0°♍	
	-4612 Jul 26 j 16:48	0°♎	
	-4612 Sep 09 j 00:23	0°♏	
	-4612 Oct 21 j 02:32	0°♐	
	-4612 Dec 02 j 09:27	0°♑	
	-4611 Jan 14 j 20:25	0°♒	
	-4611 Feb 28 j 19:23	0°♓	
asc. node	-4611 Mar 27 j 04:03	17°♓10'57	
evening set	-4611 Apr 03 j 01:12	21°♓37'51	
	-4611 Apr 16 j 01:13	0°♈	
conjunction	-4611 May 21 j 11:01	22°♈38'53	0°30'09
minimum elong	-4611 May 21 j 09:59	22°♈37'15	0°30'13
max. Earth dist.	-4611 May 22 j 20:05	23°♈31'36	2.66906 AU
	-4611 Jun 01 j 23:35	0°♉	
morning rise	-4611 Jul 06 j 09:05	21°♉58'31	
	-4611 Jul 18 j 21:22	0°♊	
	-4611 Sep 03 j 06:29	0°♋	
	-4611 Oct 19 j 00:55	0°♌	
	-4611 Dec 03 j 12:22	0°♍	
	-4610 Jan 18 j 13:38	0°♎	
	-4610 Mar 09 j 04:12	0°♏	
desc. node	-4610 Mar 28 j 16:41	10°♏01'20	
retrograde	-4610 May 16 j 02:12	23°♏06'56	
min. Earth dist.	-4610 Jun 12 j 19:04	18°♏35'54	0.38349 AU
opposition	-4610 Jun 16 j 15:10	17°♏32'05	-5°21'34
greatest brilliancy	-4610 Jun 15 j 19:59	17°♏45'26	-2.9m
direct	-4610 Jul 16 j 14:06	12°♏27'28	
	-4610 Sep 13 j 03:13	0°♐	
	-4610 Nov 04 j 22:23	0°♑	
	-4610 Dec 22 j 23:44	0°♒	
	-4609 Feb 08 j 11:34	0°♓	
asc. node	-4609 Feb 12 j 01:11	2°♓15'00	
	-4609 Mar 28 j 03:24	0°♈	
evening set	-4609 May 12 j 10:20	28°♈33'42	
	-4609 May 14 j 16:46	0°♉	
max. Earth dist.	-4609 Jun 15 j 11:22	20°♉16'58	2.65485 AU
conjunction	-4609 Jun 28 j 04:20	28°♉28'57	1°02'39
minimum elong	-4609 Jun 28 j 03:14	28°♉27'09	1°02'49
	-4609 Jun 30 j 12:32	0°♊	
morning rise	-4609 Aug 12 j 17:46	28°♊27'06	
	-4609 Aug 15 j 01:18	0°♋	
	-4609 Sep 28 j 01:41	0°♌	
	-4609 Nov 09 j 15:47	0°♍	
	-4609 Dec 21 j 03:30	0°♎	
	-4608 Jan 31 j 02:20	0°♏	
desc. node	-4608 Feb 13 j 16:44	9°♏55'42	
	-4608 Mar 12 j 14:34	0°♐	
	-4608 Apr 26 j 06:14	0°♑	
	-4608 Jul 01 j 21:48	0°♒	
retrograde	-4608 Jul 14 j 18:18	1°♒08'58	
	-4608 Jul 27 j 04:55	30°℞♑	
min. Earth dist.	-4608 Aug 13 j 01:03	25°♑16'11	0.49026 AU
opposition	-4608 Aug 20 j 22:58	22°♑24'10	-5°16'47
greatest brilliancy	-4608 Aug 19 j 14:35	22°♑53'40	-2.2m
direct	-4608 Sep 23 j 15:11	15°♑16'46	
	-4608 Nov 17 j 15:43	0°♒	
asc. node	-4608 Dec 30 j 00:45	21°♒23'41	
	-4607 Jan 14 j 11:32	0°♓	
	-4607 Mar 06 j 18:10	0°♈	
	-4607 Apr 24 j 20:48	0°♉	
	-4607 Jun 11 j 04:41	0°♊	
evening set	-4607 Jun 19 j 02:30	5°♊08'15	
max. Earth dist.	-4607 Jul 11 j 01:46	19°♊36'55	2.58834 AU
	-4607 Jul 26 j 12:40	0°♋	
conjunction	-4607 Aug 05 j 20:07	7°♋01'19	1°10'09
minimum elong	-4607 Aug 05 j 20:38	7°♋02'13	1°10'23
	-4607 Sep 07 j 18:56	0°♌	
morning rise	-4607 Sep 23 j 16:23	11°♌22'28	
	-4607 Oct 19 j 04:24	0°♍	
	-4607 Nov 28 j 04:05	0°♎	
desc. node	-4607 Dec 31 j 15:50	25°♎36'34	
	-4606 Jan 06 j 09:03	0°♏	
	-4606 Feb 14 j 14:58	0°♐	
	-4606 Mar 26 j 23:48	0°♑	
	-4606 May 09 j 04:16	0°♒	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4606 Jun 28 j 20:32	0°♓	
retrograde	-4606 Aug 26 j 09:40	17°♓33'52	
min. Earth dist.	-4606 Sep 29 j 23:53	9°♓39'26	0.60316 AU
opposition	-4606 Oct 05 j 00:11	7°♓39'40	-1°45'13
greatest brilliancy	-4606 Oct 04 j 17:12	7°♓46'38	-1.7m
	-4606 Oct 29 j 20:10	30°℞♒	
direct	-4606 Nov 11 j 09:56	28°♒56'58	
asc. node	-4606 Nov 17 j 01:40	29°♒08'49	
	-4606 Nov 24 j 17:22	0°♓	
	-4605 Feb 09 j 20:43	0°♈	
	-4605 Apr 04 j 08:02	0°♉	
	-4605 May 23 j 03:58	0°♊	
	-4605 Jul 07 j 21:02	0°♋	
evening set	-4605 Jul 31 j 16:18	16°♋22'34	
max. Earth dist.	-4605 Aug 16 j 00:25	27°♋12'19	2.47775 AU
	-4605 Aug 19 j 22:13	0°♌	
conjunction	-4605 Sep 22 j 04:32	24°♌19'25	0°38'23
minimum elong	-4605 Sep 22 j 06:30	24°♌23'05	0°38'30
	-4605 Sep 29 j 18:39	0°♍	
	-4605 Nov 08 j 01:39	0°♎	
desc. node	-4605 Nov 18 j 13:58	8°♎09'36	
morning rise	-4605 Nov 19 j 07:36	8°♎43'55	
	-4605 Dec 16 j 13:25	0°♏	
	-4604 Jan 24 j 02:18	0°♐	
	-4604 Mar 03 j 13:52	0°♑	
	-4604 Apr 13 j 23:07	0°♒	
	-4604 May 28 j 12:41	0°♓	
	-4604 Jul 18 j 08:44	0°♈	
retrograde	-4604 Sep 30 j 06:41	24°♈06'45	
asc. node	-4604 Oct 04 j 02:26	24°♈00'55	
min. Earth dist.	-4604 Nov 07 j 22:25	14°♈48'48	0.66394 AU
opposition	-4604 Nov 09 j 06:42	14°♈16'17	1°21'13
greatest brilliancy	-4604 Nov 09 j 04:24	14°♈18'35	-1.4m
direct	-4604 Dec 19 j 04:05	4°♈40'29	
	-4603 Mar 08 j 15:23	0°♉	
	-4603 May 01 j 04:37	0°♊	
	-4603 Jun 17 j 07:26	0°♋	
	-4603 Jul 30 j 16:36	0°♌	
	-4603 Sep 09 j 10:20	0°♍	
evening set	-4603 Sep 21 j 14:24	9°♍14'52	
desc. node	-4603 Oct 05 j 10:13	19°♍53'06	
	-4603 Oct 18 j 10:39	0°♎	
conjunction	-4603 Nov 22 j 15:32	27°♎38'25	-0°33'42
minimum elong	-4603 Nov 22 j 12:47	27°♎33'01	0°33'45
	-4603 Nov 25 j 15:26	0°♏	
max. Earth dist.	-4603 Nov 26 j 11:38	0°♏39'46	2.37649 AU
	-4602 Jan 02 j 22:45	0°♐	
morning rise	-4602 Jan 29 j 12:04	20°♐24'04	
	-4602 Feb 11 j 05:27	0°♑	
	-4602 Mar 24 j 05:49	0°♒	
	-4602 May 06 j 15:42	0°♓	
	-4602 Jun 22 j 05:25	0°♈	
	-4602 Aug 13 j 04:49	0°♉	
asc. node	-4602 Aug 22 j 03:03	4°♉36'10	
retrograde	-4602 Nov 04 j 07:11	27°♉49'31	
opposition	-4602 Dec 13 j 12:58	18°♉32'18	3°43'49
greatest brilliancy	-4602 Dec 13 j 18:45	18°♉26'34	-1.4m
min. Earth dist.	-4602 Dec 15 j 23:20	17°♉34'22	0.66264 AU
direct	-4601 Jan 23 j 14:42	8°♉32'24	
	-4601 Apr 03 j 21:02	0°♊	
	-4601 May 26 j 06:30	0°♋	
	-4601 Jul 10 j 03:45	0°♌	
	-4601 Aug 20 j 08:36	0°♍	
desc. node	-4601 Aug 23 j 07:12	2°♍12'46	
	-4601 Sep 28 j 11:44	0°♎	
	-4601 Nov 05 j 17:28	0°♏	
evening set	-4601 Nov 27 j 15:02	17°♏10'34	
	-4601 Dec 14 j 02:40	0°♐	
	-4600 Jan 22 j 12:46	0°♑	
conjunction	-4600 Jan 30 j 17:34	6°♑05'41	-1°07'47
minimum elong	-4600 Jan 30 j 18:16	6°♑06'58	1°08'00
	-4600 Mar 03 j 16:06	0°♒	
max. Earth dist.	-4600 Mar 14 j 18:27	7°♒50'35	2.48817 AU
morning rise	-4600 Mar 31 j 04:47	19°♒15'47	
	-4600 Apr 15 j 22:45	0°♓	
	-4600 May 31 j 12:28	0°♈	
asc. node	-4600 Jul 09 j 03:03	24°♈13'29	
	-4600 Jul 18 j 14:44	0°♉	
	-4600 Sep 08 j 16:20	0°♊	
	-4600 Nov 17 j 01:27	0°♋	
retrograde	-4600 Dec 12 j 11:28	3°♋31'21	
	-4599 Jan 04 j 23:01	30°℞♊	
opposition	-4599 Jan 18 j 20:30	25°♊11'41	5°09'06
greatest brilliancy	-4599 Jan 19 j 21:26	24°♊47'56	-1.6m
min. Earth dist.	-4599 Jan 25 j 00:12	22°♊51'15	0.59792 AU
direct	-4599 Feb 28 j 12:19	15°♊24'26	
	-4599 Apr 23 j 04:21	0°♋	
	-4599 Jun 14 j 17:14	0°♌	
desc. node	-4599 Jul 10 j 06:33	17°♌17'00	
	-4599 Jul 28 j 01:42	0°♍	
	-4599 Sep 06 j 03:02	0°♎	
	-4599 Oct 14 j 22:34	0°♏	
	-4599 Nov 22 j 19:48	0°♐	
	-4598 Jan 01 j 18:03	0°♑	
evening set	-4598 Jan 28 j 16:53	19°♑34'58	
	-4598 Feb 12 j 08:59	0°♒	
conjunction	-4598 Mar 25 j 09:07	28°♒14'42	-0°34'48
minimum elong	-4598 Mar 25 j 10:42	28°♒17'21	0°34'55
	-4598 Mar 27 j 23:40	0°♓	
max. Earth dist.	-4598 Apr 18 j 09:55	14°♓16'26	2.59887 AU
	-4598 May 12 j 11:23	0°♈	
morning rise	-4598 May 15 j 22:03	2°♈13'43	
asc. node	-4598 May 26 j 23:56	9°♈21'35	
	-4598 Jun 28 j 11:41	0°♉	
	-4598 Aug 15 j 19:19	0°♊	
	-4598 Oct 05 j 02:48	0°♋	
	-4598 Nov 30 j 16:03	0°♌	
retrograde	-4597 Feb 01 j 08:35	17°♌37'20	
opposition	-4597 Mar 07 j 10:53	10°♌53'51	4°22'53
greatest brilliancy	-4597 Mar 08 j 21:02	10°♌25'02	-2.2m
min. Earth dist.	-4597 Mar 15 j 23:32	8°♌02'16	0.47927 AU
direct	-4597 Apr 13 j 22:05	2°♌40'31	
desc. node	-4597 May 28 j 07:05	14°♌05'07	
	-4597 Jun 26 j 21:23	0°♍	
	-4597 Aug 11 j 00:37	0°♎	
	-4597 Sep 21 j 05:17	0°♏	
	-4597 Oct 31 j 17:14	0°♐	
	-4597 Dec 11 j 22:40	0°♑	
	-4596 Jan 23 j 15:16	0°♒	
	-4596 Mar 08 j 01:21	0°♓	
evening set	-4596 Mar 17 j 13:37	6°♓17'09	
asc. node	-4596 Apr 12 j 19:57	23°♓26'20	
	-4596 Apr 22 j 23:26	0°♈	
conjunction	-4596 May 06 j 08:25	8°♈36'18	0°13'15
minimum elong	-4596 May 06 j 07:54	8°♈35'28	0°13'16
behind sun begin	-4596 May 05 j 20:58	8°♈17'55	
behind sun end	-4596 May 06 j 18:51	8°♈53'01	
max. Earth dist.	-4596 May 13 j 11:25	13°♈10'26	2.66004 AU
	-4596 Jun 08 j 19:45	0°♉	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

morning rise	-4596 Jun 22 j 04:54	8°♉31'24	
	-4596 Jul 25 j 22:26	0°♊	
	-4596 Sep 10 j 22:24	0°♋	
	-4596 Oct 27 j 23:29	0°♌	
	-4596 Dec 14 j 23:22	0°♍	
	-4595 Feb 05 j 02:43	0°♎	
desc. node	-4595 Apr 14 j 07:57	22°♎16'40	
retrograde	-4595 Apr 15 j 04:35	22°♎16'57	
opposition	-4595 May 15 j 15:43	17°♎14'04	-2°21'10
greatest brilliancy	-4595 May 15 j 17:01	17°♎13'13	-2.9m
min. Earth dist.	-4595 May 17 j 03:03	16°♎50'32	0.37930 AU
direct	-4595 Jun 15 j 06:13	12°♎02'07	
	-4595 Aug 12 j 09:17	0°♏	
	-4595 Oct 01 j 20:47	0°♐	
	-4595 Nov 16 j 16:44	0°♑	
	-4594 Jan 01 j 04:07	0°♒	
	-4594 Feb 16 j 08:37	0°♓	
asc. node	-4594 Feb 28 j 17:01	7°♓55'48	
	-4594 Apr 04 j 07:39	0°♈	
evening set	-4594 Apr 27 j 11:05	14°♈41'29	
	-4594 May 21 j 13:25	0°♉	
max. Earth dist.	-4594 Jun 06 j 06:32	10°♉01'11	2.66698 AU
conjunction	-4594 Jun 13 j 12:56	14°♉40'06	0°52'22
minimum elong	-4594 Jun 13 j 11:39	14°♉38'01	0°52'30
	-4594 Jul 07 j 08:38	0°♊	
morning rise	-4594 Jul 28 j 20:42	13°♊59'30	
	-4594 Aug 22 j 03:33	0°♋	
	-4594 Oct 05 j 16:47	0°♌	
	-4594 Nov 18 j 02:23	0°♍	
	-4594 Dec 30 j 16:38	0°♎	
	-4593 Feb 11 j 03:59	0°♏	
desc. node	-4593 Mar 02 j 10:36	13°♏21'56	
	-4593 Mar 27 j 08:05	0°♐	
	-4593 May 20 j 15:35	0°♑	
retrograde	-4593 Jun 25 j 05:17	7°♑58'35	
min. Earth dist.	-4593 Jul 22 j 11:57	2°♑58'43	0.44043 AU
greatest brilliancy	-4593 Jul 28 j 21:10	0°♑52'18	-2.5m
opposition	-4593 Jul 30 j 12:07	0°♑19'51	-6°15'52
	-4593 Jul 31 j 12:05	30°℞♐	
direct	-4593 Aug 31 j 10:35	24°♐04'45	
	-4593 Oct 02 j 14:44	0°♑	
	-4593 Dec 04 j 19:37	0°♒	
asc. node	-4592 Jan 16 j 15:15	24°♒50'10	
	-4592 Jan 25 j 06:43	0°♓	
	-4592 Mar 14 j 16:08	0°♈	
	-4592 May 02 j 00:33	0°♉	
evening set	-4592 Jun 03 j 21:50	20°♉51'35	
	-4592 Jun 18 j 02:05	0°♊	
max. Earth dist.	-4592 Jun 30 j 04:27	7°♊53'01	2.62051 AU
conjunction	-4592 Jul 20 j 21:06	21°♊33'32	1°11'01
minimum elong	-4592 Jul 20 j 20:49	21°♊33'04	1°11'14
	-4592 Aug 02 j 10:56	0°♋	
morning rise	-4592 Sep 05 j 20:31	23°♋36'53	
	-4592 Sep 14 j 23:06	0°♌	
	-4592 Oct 26 j 17:54	0°♍	
	-4592 Dec 06 j 04:46	0°♎	
	-4591 Jan 14 j 21:40	0°♏	
desc. node	-4591 Jan 17 j 10:28	1°♏55'13	
	-4591 Feb 23 j 16:39	0°♐	
	-4591 Apr 05 j 21:08	0°♑	
	-4591 May 21 j 02:58	0°♒	
	-4591 Jul 27 j 11:52	0°♓	
retrograde	-4591 Aug 11 j 01:51	1°♓25'33	
	-4591 Aug 25 j 01:31	30°℞♒	
min. Earth dist.	-4591 Sep 12 j 17:17	24°♒13'56	0.56367 AU
greatest brilliancy	-4591 Sep 18 j 10:00	22°♒00'37	-1.8m
opposition	-4591 Sep 19 j 01:45	21°♒45'16	-3°07'39
direct	-4591 Oct 25 j 03:26	13°♒33'41	
asc. node	-4591 Dec 03 j 15:14	21°♒37'40	
	-4591 Dec 24 j 03:50	0°♓	
	-4590 Feb 20 j 04:16	0°♈	
	-4590 Apr 12 j 08:09	0°♉	
	-4590 May 30 j 10:14	0°♊	
evening set	-4590 Jul 14 j 08:05	29°♊35'49	
	-4590 Jul 14 j 22:22	0°♋	
max. Earth dist.	-4590 Jul 31 j 01:55	11°♋03'10	2.52514 AU
	-4590 Aug 27 j 00:45	0°♌	
conjunction	-4590 Sep 02 j 09:25	4°♌33'46	0°56'20
minimum elong	-4590 Sep 02 j 11:12	4°♌36'57	0°56'31
	-4590 Oct 07 j 01:25	0°♍	
morning rise	-4590 Oct 26 j 00:27	14°♍16'44	
	-4590 Nov 15 j 13:56	0°♎	
desc. node	-4590 Dec 05 j 07:37	15°♎15'13	
	-4590 Dec 24 j 07:14	0°♏	
	-4589 Feb 01 j 01:00	0°♐	
	-4589 Mar 12 j 17:43	0°♑	
	-4589 Apr 23 j 12:21	0°♒	
	-4589 Jun 08 j 05:12	0°♓	
	-4589 Aug 03 j 17:41	0°♈	
retrograde	-4589 Sep 17 j 16:57	10°♈41'56	
asc. node	-4589 Oct 21 j 17:09	3°♈09'20	
min. Earth dist.	-4589 Oct 24 j 21:23	1°♈53'26	0.64715 AU
opposition	-4589 Oct 27 j 16:59	0°♈45'21	0°14'00
greatest brilliancy	-4589 Oct 27 j 16:20	0°♈46'00	-1.5m
	-4589 Oct 29 j 14:12	30°℞♓	
direct	-4589 Dec 05 j 18:43	21°♓26'38	
	-4588 Jan 16 j 07:03	0°♈	
	-4588 Mar 19 j 10:59	0°♉	
	-4588 May 09 j 10:43	0°♊	
	-4588 Jun 24 j 20:28	0°♋	
	-4588 Aug 07 j 01:09	0°♌	
evening set	-4588 Aug 30 j 06:59	16°♌55'39	
	-4588 Sep 16 j 19:02	0°♍	
max. Earth dist.	-4588 Sep 22 j 20:32	4°♍35'13	2.40306 AU
desc. node	-4588 Oct 22 j 04:18	27°♍07'26	
	-4588 Oct 25 j 21:04	0°♎	
conjunction	-4588 Oct 27 j 07:22	1°♎06'47	-0°03'45
minimum elong	-4588 Oct 27 j 07:02	1°♎06'08	0°03'44
behind sun begin	-4588 Oct 26 j 05:18	0°♎16'03	
behind sun end	-4588 Oct 28 j 08:46	1°♎56'14	
	-4588 Dec 03 j 03:41	0°♏	
morning rise	-4588 Dec 31 j 22:15	22°♏33'02	
	-4587 Jan 10 j 12:06	0°♐	
	-4587 Feb 18 j 19:22	0°♑	
	-4587 Mar 31 j 21:03	0°♒	
	-4587 May 14 j 12:43	0°♓	
	-4587 Jul 01 j 00:37	0°♈	
	-4587 Aug 26 j 06:11	0°♉	
asc. node	-4587 Sep 07 j 18:42	5°♉14'44	
retrograde	-4587 Oct 21 j 11:56	14°♉54'57	
opposition	-4587 Nov 30 j 03:52	5°♉22'07	2°54'03
greatest brilliancy	-4587 Nov 30 j 04:40	5°♉21'18	-1.3m
min. Earth dist.	-4587 Dec 01 j 02:17	4°♉59'40	0.67067 AU
	-4587 Dec 14 j 10:26	30°℞♈	
direct	-4586 Jan 09 j 22:24	25°♈28'28	
	-4586 Feb 07 j 23:24	0°♉	
	-4586 Apr 15 j 16:19	0°♊	
	-4586 Jun 04 j 02:02	0°♋	
	-4586 Jul 18 j 04:25	0°♌	
	-4586 Aug 28 j 03:09	0°♍	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

desc. node	-4586 Sep 09 j 01:40	9°♍03'25	
	-4586 Oct 06 j 04:04	0°♎	
evening set	-4586 Oct 31 j 10:32	19°♎49'48	
	-4586 Nov 13 j 08:24	0°♏	
	-4586 Dec 21 j 15:39	0°♐	
conjunction	-4585 Jan 04 j 21:16	10°♐59'00	-1°04'57
minimum elong	-4585 Jan 04 j 19:24	10°♐55'26	1°05'10
	-4585 Jan 29 j 23:04	0°♑	
max. Earth dist.	-4585 Feb 22 j 15:02	17°♑29'06	2.43607 AU
morning rise	-4585 Mar 10 j 12:42	28°♑57'27	
	-4585 Mar 11 j 23:45	0°♒	
	-4585 Apr 24 j 05:28	0°♓	
	-4585 Jun 09 j 00:22	0°♈	
asc. node	-4585 Jul 26 j 18:19	29°♈15'36	
	-4585 Jul 28 j 00:36	0°♉	
	-4585 Sep 21 j 18:46	0°♊	
retrograde	-4585 Nov 27 j 08:55	19°♊14'44	
opposition	-4584 Jan 04 j 15:05	10°♊29'06	4°45'01
greatest brilliancy	-4584 Jan 05 j 07:54	10°♊12'45	-1.5m
min. Earth dist.	-4584 Jan 09 j 08:33	8°♊38'50	0.63063 AU
direct	-4584 Feb 14 j 16:28	0°♊30'55	
	-4584 May 08 j 01:55	0°♋	
	-4584 Jun 24 j 19:59	0°♌	
desc. node	-4584 Jul 26 j 23:22	22°♌38'58	
	-4584 Aug 05 j 23:37	0°♍	
	-4584 Sep 14 j 12:48	0°♎	
	-4584 Oct 23 j 00:52	0°♏	
	-4584 Nov 30 j 15:39	0°♐	
evening set	-4583 Jan 05 j 22:24	27°♐29'18	
	-4583 Jan 09 j 07:30	0°♑	
	-4583 Feb 19 j 16:21	0°♒	
conjunction	-4583 Mar 05 j 22:52	10°♒01'29	-0°51'43
minimum elong	-4583 Mar 06 j 00:58	10°♒05'07	0°51'54
	-4583 Apr 04 j 02:09	0°♓	
max. Earth dist.	-4583 Apr 06 j 19:08	1°♓49'28	2.56073 AU
morning rise	-4583 Apr 29 j 10:32	16°♓53'41	
	-4583 May 19 j 12:34	0°♈	
asc. node	-4583 Jun 12 j 16:39	15°♈28'50	
	-4583 Jul 05 j 18:59	0°♉	
	-4583 Aug 24 j 01:19	0°♊	
	-4583 Oct 16 j 08:12	0°♋	
retrograde	-4582 Jan 10 j 08:54	28°♋57'54	
opposition	-4582 Feb 14 j 23:08	21°♋30'40	5°07'17
greatest brilliancy	-4582 Feb 16 j 10:01	20°♋59'15	-1.9m
min. Earth dist.	-4582 Feb 22 j 23:44	18°♋38'12	0.53024 AU
direct	-4582 Mar 26 j 03:40	12°♋25'52	
	-4582 May 23 j 01:25	0°♌	
desc. node	-4582 Jun 14 j 00:01	12°♌25'34	
	-4582 Jul 11 j 03:25	0°♍	
	-4582 Aug 22 j 01:20	0°♎	
	-4582 Sep 30 j 20:56	0°♏	
	-4582 Nov 09 j 11:45	0°♐	
	-4582 Dec 20 j 00:55	0°♑	
	-4581 Jan 31 j 04:41	0°♒	
evening set	-4581 Feb 28 j 21:38	19°♒42'21	
	-4581 Mar 16 j 05:03	0°♓	
conjunction	-4581 Apr 21 j 13:02	23°♓55'58	-0°05'10
minimum elong	-4581 Apr 21 j 13:14	23°♓56'19	0°05'12
behind sun begin	-4581 Apr 20 j 17:32	23°♓24'17	
behind sun end	-4581 Apr 22 j 08:57	24°♓28'20	
asc. node	-4581 Apr 30 j 12:38	29°♓45'46	
	-4581 Apr 30 j 21:25	0°♈	
max. Earth dist.	-4581 May 04 j 18:56	2°♈31'09	2.64252 AU
morning rise	-4581 Jun 08 j 19:08	24°♈57'31	
	-4581 Jun 16 j 17:21	0°♉	
	-4581 Aug 03 j 03:43	0°♊	
	-4581 Sep 20 j 01:11	0°♋	
	-4581 Nov 08 j 02:54	0°♌	
	-4581 Dec 31 j 10:06	0°♍	
retrograde	-4580 Mar 14 j 13:25	23°♍51'23	
opposition	-4580 Apr 14 j 22:41	18°♍23'16	1°08'29
greatest brilliancy	-4580 Apr 15 j 06:52	18°♍17'19	-2.8m
min. Earth dist.	-4580 Apr 21 j 00:49	16°♍37'17	0.40532 AU
desc. node	-4580 May 01 j 02:02	14°♍03'42	
direct	-4580 May 18 j 07:20	12°♍06'45	
	-4580 Jul 14 j 03:49	0°♎	
	-4580 Aug 31 j 20:33	0°♏	
	-4580 Oct 14 j 12:05	0°♐	
	-4580 Nov 26 j 15:08	0°♑	
	-4579 Jan 09 j 14:54	0°♒	
	-4579 Feb 23 j 21:57	0°♓	
asc. node	-4579 Mar 17 j 08:25	13°♓55'13	
	-4579 Apr 11 j 08:43	0°♈	
evening set	-4579 Apr 12 j 03:21	0°♈29'51	
max. Earth dist.	-4579 May 28 j 05:12	29°♈53'42	2.67072 AU
	-4579 May 28 j 09:09	0°♉	
conjunction	-4579 May 29 j 22:56	1°♉00'14	0°39'04
minimum elong	-4579 May 29 j 21:44	0°♉58'19	0°39'10
morning rise	-4579 Jul 14 j 12:37	0°♊11'23	
	-4579 Jul 14 j 05:33	0°♊	
	-4579 Aug 29 j 08:59	0°♋	
	-4579 Oct 13 j 15:20	0°♌	
	-4579 Nov 27 j 05:07	0°♍	
	-4578 Jan 10 j 15:06	0°♎	
	-4578 Feb 25 j 06:30	0°♏	
desc. node	-4578 Mar 19 j 03:06	13°♏22'34	
	-4578 Apr 19 j 19:45	0°♐	
retrograde	-4578 May 31 j 17:38	10°♐29'32	
min. Earth dist.	-4578 Jun 27 j 12:27	6°♐01'32	0.39851 AU
greatest brilliancy	-4578 Jul 02 j 07:04	4°♐37'22	-2.8m
opposition	-4578 Jul 03 j 14:33	4°♐14'07	-6°12'36
	-4578 Jul 20 j 17:08	30°℞♏	
direct	-4578 Aug 02 j 21:25	28°♏50'43	
	-4578 Aug 16 j 09:35	0°♐	
	-4578 Oct 26 j 22:04	0°♑	
	-4578 Dec 16 j 13:17	0°♒	
asc. node	-4577 Feb 02 j 06:53	29°♒30'51	
	-4577 Feb 03 j 01:39	0°♓	
	-4577 Mar 23 j 05:27	0°♈	
	-4577 May 10 j 00:43	0°♉	
evening set	-4577 May 20 j 23:34	6°♉56'27	
max. Earth dist.	-4577 Jun 21 j 02:43	26°♉52'49	2.64489 AU
	-4577 Jun 25 j 22:22	0°♊	
conjunction	-4577 Jul 06 j 16:35	7°♊00'10	1°06'57
minimum elong	-4577 Jul 06 j 15:43	6°♊58'44	1°07'08
	-4577 Aug 10 j 09:55	0°♋	
morning rise	-4577 Aug 21 j 13:50	7°♋32'05	
	-4577 Sep 23 j 05:49	0°♌	
	-4577 Nov 04 j 12:27	0°♍	
	-4577 Dec 15 j 13:54	0°♎	
	-4576 Jan 24 j 23:41	0°♏	
desc. node	-4576 Feb 04 j 03:17	7°♏32'31	
	-4576 Mar 05 j 16:04	0°♐	
	-4576 Apr 17 j 11:29	0°♑	
	-4576 Jun 07 j 11:01	0°♒	
retrograde	-4576 Jul 25 j 05:35	13°♒10'34	
min. Earth dist.	-4576 Aug 24 j 18:22	6°♒47'54	0.51769 AU
greatest brilliancy	-4576 Aug 31 j 03:05	4°♒24'44	-2.1m
opposition	-4576 Sep 01 j 05:36	3°♒59'48	-4°31'51

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4576 Sep 12 j 20:01	30°℞♋	
direct	-4576 Oct 05 j 18:52	26°♋27'00	
	-4576 Oct 30 j 14:27	0°♒	
asc. node	-4576 Dec 20 j 06:55	20°♒39'15	
	-4575 Jan 07 j 06:06	0°♓	
	-4575 Mar 01 j 04:58	0°♈	
	-4575 Apr 19 j 22:22	0°♉	
	-4575 Jun 06 j 12:11	0°♊	
evening set	-4575 Jun 28 j 01:55	14°♊04'14	
max. Earth dist.	-4575 Jul 17 j 22:16	27°♊18'19	2.56770 AU
	-4575 Jul 21 j 21:56	0°♋	
conjunction	-4575 Aug 15 j 10:47	16°♋50'58	1°07'00
minimum elong	-4575 Aug 15 j 11:47	16°♋52'43	1°07'13
	-4575 Sep 03 j 03:14	0°♌	
morning rise	-4575 Oct 04 j 16:30	22°♌49'10	
	-4575 Oct 14 j 09:54	0°♍	
	-4575 Nov 23 j 05:31	0°♎	
desc. node	-4575 Dec 22 j 02:13	22°♎10'00	
	-4574 Jan 01 j 05:56	0°♏	
	-4574 Feb 09 j 06:24	0°♐	
	-4574 Mar 21 j 07:13	0°♑	
	-4574 May 02 j 18:25	0°♒	
	-4574 Jun 19 j 17:20	0°♓	
retrograde	-4574 Sep 03 j 17:20	26°♓34'21	
min. Earth dist.	-4574 Oct 09 j 07:02	18°♓19'26	0.62125 AU
opposition	-4574 Oct 13 j 13:17	16°♓37'04	-0°59'43
greatest brilliancy	-4574 Oct 13 j 09:57	16°♓40'24	-1.6m
asc. node	-4574 Nov 07 j 07:38	8°♓49'55	
direct	-4574 Nov 20 j 14:48	7°♓40'01	
	-4573 Feb 01 j 23:42	0°♈	
	-4573 Mar 29 j 16:54	0°♉	
	-4573 May 18 j 04:33	0°♊	
	-4573 Jul 03 j 03:20	0°♋	
evening set	-4573 Aug 11 j 06:44	27°♋09'46	
	-4573 Aug 15 j 06:01	0°♌	
max. Earth dist.	-4573 Aug 27 j 06:37	8°♌41'00	2.45031 AU
	-4573 Sep 25 j 01:53	0°♍	
conjunction	-4573 Oct 04 j 12:40	7°♍08'16	0°24'44
minimum elong	-4573 Oct 04 j 14:14	7°♍11'15	0°24'48
	-4573 Nov 03 j 07:16	0°♎	
desc. node	-4573 Nov 08 j 22:21	4°♎22'15	
morning rise	-4573 Dec 04 j 10:52	24°♎18'32	
	-4573 Dec 11 j 17:14	0°♏	
	-4572 Jan 19 j 04:12	0°♐	
	-4572 Feb 27 j 13:18	0°♑	
	-4572 Apr 08 j 18:18	0°♒	
	-4572 May 22 j 20:23	0°♓	
	-4572 Jul 10 j 23:16	0°♈	
	-4572 Sep 19 j 11:35	0°♉	
asc. node	-4572 Sep 24 j 09:13	0°♉54'09	
retrograde	-4572 Oct 07 j 23:44	2°♉01'39	
	-4572 Oct 25 j 08:16	30°℞♈	
opposition	-4572 Nov 16 j 22:06	22°♈16'22	1°57'17
min. Earth dist.	-4572 Nov 16 j 08:56	22°♈29'36	0.66904 AU
greatest brilliancy	-4572 Nov 16 j 20:09	22°♈18'19	-1.4m
direct	-4572 Dec 27 j 04:35	12°♈33'04	
	-4571 Feb 28 j 04:32	0°♉	
	-4571 Apr 25 j 10:27	0°♊	
	-4571 Jun 12 j 05:48	0°♋	
	-4571 Jul 25 j 20:42	0°♌	
	-4571 Sep 04 j 16:12	0°♍	
desc. node	-4571 Sep 25 j 19:15	16°♍07'14	
evening set	-4571 Oct 05 j 09:20	23°♍32'18	
	-4571 Oct 13 j 16:31	0°♎	
	-4571 Nov 20 j 20:50	0°♏	
conjunction	-4571 Dec 08 j 08:04	13°♏44'36	-0°48'25
minimum elong	-4571 Dec 08 j 04:45	13°♏38'05	0°48'32
	-4571 Dec 29 j 03:36	0°♐	
max. Earth dist.	-4570 Jan 15 j 22:57	13°♐44'12	2.38885 AU
	-4570 Feb 06 j 09:46	0°♑	
morning rise	-4570 Feb 13 j 20:57	5°♑34'27	
	-4570 Mar 19 j 09:18	0°♒	
	-4570 May 01 j 16:08	0°♓	
	-4570 Jun 16 j 20:17	0°♈	
	-4570 Aug 06 j 08:30	0°♉	
asc. node	-4570 Aug 12 j 09:54	3°♉19'43	
	-4570 Oct 10 j 09:57	0°♊	
retrograde	-4570 Nov 12 j 10:58	5°♊45'52	
	-4570 Dec 12 j 14:12	30°℞♉	
opposition	-4570 Dec 21 j 09:43	26°♉38'42	4°08'51
greatest brilliancy	-4570 Dec 21 j 19:00	26°♉29'32	-1.4m
min. Earth dist.	-4570 Dec 24 j 15:26	25°♉22'03	0.65413 AU
direct	-4569 Jan 31 j 13:23	16°♉37'44	
	-4569 Mar 25 j 05:12	0°♊	
	-4569 May 20 j 03:22	0°♋	
	-4569 Jul 04 j 19:51	0°♌	
desc. node	-4569 Aug 13 j 18:10	28°♌49'42	
	-4569 Aug 15 j 07:50	0°♍	
	-4569 Sep 23 j 13:56	0°♎	
	-4569 Oct 31 j 21:17	0°♏	
	-4569 Dec 09 j 07:31	0°♐	
evening set	-4569 Dec 12 j 17:04	2°♐37'29	
	-4568 Jan 17 j 18:25	0°♑	
conjunction	-4568 Feb 13 j 06:03	19°♑27'52	-1°04'08
minimum elong	-4568 Feb 13 j 07:41	19°♑30'50	1°04'20
	-4568 Feb 27 j 22:32	0°♒	
max. Earth dist.	-4568 Mar 24 j 06:01	17°♒43'59	2.51562 AU
morning rise	-4568 Apr 11 j 10:21	0°♓09'04	
	-4568 Apr 11 j 04:59	0°♓	
	-4568 May 26 j 16:09	0°♈	
asc. node	-4568 Jun 29 j 07:46	21°♈19'23	
	-4568 Jul 13 j 08:44	0°♉	
	-4568 Sep 02 j 02:20	0°♊	
	-4568 Oct 31 j 14:12	0°♋	
retrograde	-4568 Dec 22 j 08:43	12°♋36'25	
opposition	-4567 Jan 28 j 04:25	4°♋33'28	5°14'59
greatest brilliancy	-4567 Jan 29 j 09:34	4°♋06'08	-1.7m
min. Earth dist.	-4567 Feb 04 j 01:50	1°♋58'55	0.57607 AU
	-4567 Feb 09 j 16:28	30°℞♊	
direct	-4567 Mar 09 j 11:10	24°♊57'21	
	-4567 Apr 07 j 20:21	0°♋	
	-4567 Jun 07 j 10:08	0°♌	
desc. node	-4567 Jun 30 j 17:16	15°♌07'46	
	-4567 Jul 22 j 01:39	0°♍	
	-4567 Aug 31 j 14:53	0°♎	
	-4567 Oct 09 j 17:07	0°♏	
	-4567 Nov 17 j 19:03	0°♐	
	-4567 Dec 27 j 20:58	0°♑	
	-4566 Feb 07 j 14:59	0°♒	
evening set	-4566 Feb 09 j 13:29	1°♒21'34	
	-4566 Mar 23 j 07:37	0°♓	
conjunction	-4566 Apr 04 j 15:51	8°♓14'42	-0°24'05
minimum elong	-4566 Apr 04 j 16:57	8°♓16'31	0°24'09
max. Earth dist.	-4566 Apr 24 j 18:08	21°♓29'29	2.61649 AU
	-4566 May 07 j 19:50	0°♈	
asc. node	-4566 May 17 j 04:35	6°♈03'12	
morning rise	-4566 May 24 j 20:53	10°♈59'28	
	-4566 Jun 23 j 17:19	0°♉	
	-4566 Aug 10 j 15:25	0°♊	
	-4566 Sep 28 j 20:40	0°♋	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4566 Nov 20 j 12:43	0°♌				-4560 Mar 09 j 11:11	0°♈		
retrograde	-4565 Feb 15 j 11:15	29°♌53'45				-4560 Apr 27 j 05:42	0°♉		
opposition	-4565 Mar 20 j 13:03	23°♌37'44	3°32'54		evening set	-4560 Jun 12 j 13:27	29°♉24'36		
greatest brilliancy	-4565 Mar 21 j 17:43	23°♌14'41	-2.4m			-4560 Jun 13 j 11:21	0°♊		
min. Earth dist.	-4565 Mar 28 j 19:20	20°♌59'02	0.45072 AU		max. Earth dist.	-4560 Jul 06 j 07:31	14°♊56'00	2.60363 AU	
direct	-4565 Apr 25 j 18:13	16°♌02'11				-4560 Jul 28 j 20:42	0°♋		
desc. node	-4565 May 18 j 17:25	19°♌28'35							
	-4565 Jun 14 j 02:08	0°♍			conjunction	-4560 Jul 29 j 21:16	0°♋41'33	1°11'10	
	-4565 Aug 03 j 00:00	0°♎			minimum elong	-4560 Jul 29 j 21:26	0°♋41'49	1°11'23	
	-4565 Sep 14 j 14:34	0°♏				-4560 Sep 10 j 06:22	0°♌		
	-4565 Oct 25 j 20:42	0°♐			morning rise	-4560 Sep 15 j 19:06	3°♌55'10		
	-4565 Dec 06 j 13:57	0°♑				-4560 Oct 21 j 20:39	0°♍		
	-4564 Jan 18 j 15:06	0°♒				-4560 Dec 01 j 01:27	0°♎		
	-4564 Mar 03 j 06:49	0°♓			desc. node	-4559 Jan 07 j 19:15	28°♎43'08		
evening set	-4564 Mar 27 j 03:01	15°♓37'22				-4559 Jan 09 j 11:31	0°♏		
asc. node	-4564 Apr 03 j 01:18	20°♓07'20				-4559 Feb 17 j 22:18	0°♐		
	-4564 Apr 18 j 08:17	0°♈				-4559 Mar 30 j 13:16	0°♑		
						-4559 May 13 j 08:26	0°♒		
conjunction	-4564 May 15 j 02:25	17°♈09'30	0°23'18			-4559 Jul 06 j 02:50	0°♓		
minimum elong	-4564 May 15 j 01:34	17°♈08'09	0°23'21		retrograde	-4559 Aug 19 j 23:28	11°♓17'06		
max. Earth dist.	-4564 May 18 j 23:27	19°♈38'09	2.66608 AU		min. Earth dist.	-4559 Sep 22 j 17:35	3°♓41'22	0.58651 AU	
	-4564 Jun 04 j 05:12	0°♉			opposition	-4559 Sep 28 j 09:04	1°♓27'36	-2°19'36	
morning rise	-4564 Jun 30 j 09:06	16°♉41'18			greatest brilliancy	-4559 Sep 27 j 22:38	1°♓37'54	-1.7m	
	-4564 Jul 21 j 04:55	0°♊				-4559 Oct 02 j 03:08	30°♑℞♒		
	-4564 Sep 05 j 20:27	0°♋			direct	-4559 Nov 04 j 05:27	22°♒58'02		
	-4564 Oct 22 j 03:12	0°♌			asc. node	-4559 Nov 23 j 22:06	25°♒12'18		
	-4564 Dec 07 j 13:14	0°♍				-4559 Dec 10 j 22:42	0°♓		
	-4563 Jan 24 j 12:17	0°♎				-4558 Feb 13 j 15:59	0°♈		
	-4563 Mar 21 j 21:03	0°♏				-4558 Apr 07 j 01:53	0°♉		
desc. node	-4563 Apr 04 j 19:36	5°♏10'25				-4558 May 25 j 14:44	0°♊		
retrograde	-4563 May 02 j 23:25	9°♏56'36				-4558 Jul 10 j 06:58	0°♋		
min. Earth dist.	-4563 Jun 01 j 04:33	5°♏09'02	0.37759 AU		evening set	-4558 Jul 24 j 00:56	9°♋23'07		
opposition	-4563 Jun 02 j 17:33	4°♏44'14	-4°14'41		max. Earth dist.	-4558 Aug 08 j 15:15	20°♋14'05	2.49954 AU	
greatest brilliancy	-4563 Jun 02 j 09:28	4°♏49'39	-2.9m			-4558 Aug 22 j 09:51	0°♌		
	-4563 Jun 26 j 08:59	30°℞♎							
direct	-4563 Jul 02 j 17:44	29°♎44'12			conjunction	-4558 Sep 13 j 08:11	15°♌53'13	0°47'00	
	-4563 Jul 09 j 01:37	0°♏			minimum elong	-4558 Sep 13 j 10:11	15°♌56'51	0°47'09	
	-4563 Sep 21 j 22:19	0°♐				-4558 Oct 02 j 09:10	0°♍		
	-4563 Nov 09 j 16:29	0°♑			morning rise	-4558 Nov 08 j 08:11	28°♍06'32		
	-4563 Dec 26 j 09:30	0°♒				-4558 Nov 10 j 19:01	0°♎		
	-4562 Feb 11 j 05:18	0°♓			desc. node	-4558 Nov 25 j 17:46	11°♎34'40		
asc. node	-4562 Feb 18 j 22:21	4°♓54'24				-4558 Dec 19 j 09:12	0°♏		
	-4562 Mar 30 j 12:49	0°♈				-4557 Jan 26 j 23:41	0°♐		
evening set	-4562 May 06 j 02:08	23°♈07'02				-4557 Mar 07 j 12:10	0°♑		
	-4562 May 16 j 22:34	0°♉				-4557 Apr 17 j 23:26	0°♒		
max. Earth dist.	-4562 Jun 11 j 16:31	16°♉25'25	2.66125 AU			-4557 Jun 01 j 20:18	0°♓		
						-4557 Jul 24 j 05:09	0°♈		
conjunction	-4562 Jun 21 j 22:24	23°♉00'19	0°58'44		retrograde	-4557 Sep 25 j 12:42	18°♈55'10		
minimum elong	-4562 Jun 21 j 21:12	22°♉58'22	0°58'54		asc. node	-4557 Oct 11 j 23:11	17°♈04'29		
	-4562 Jul 02 j 18:17	0°♊			min. Earth dist.	-4557 Nov 02 j 13:30	9°♈50'02	0.65773 AU	
morning rise	-4562 Aug 06 j 07:46	22°♊37'16			opposition	-4557 Nov 04 j 13:55	9°♈01'16	0°53'58	
	-4562 Aug 17 j 10:21	0°♋			greatest brilliancy	-4557 Nov 04 j 11:52	9°♈03'20	-1.4m	
	-4562 Sep 30 j 16:45	0°♌				-4557 Dec 05 j 16:35	30°℞♓		
	-4562 Nov 12 j 15:38	0°♍			direct	-4557 Dec 14 j 03:39	29°♓32'34		
	-4562 Dec 24 j 14:16	0°♎				-4557 Dec 22 j 22:14	0°♈		
	-4561 Feb 04 j 03:04	0°♏				-4556 Mar 12 j 16:16	0°♉		
desc. node	-4561 Feb 20 j 20:26	11°♏59'40				-4556 May 04 j 02:04	0°♊		
	-4561 Mar 18 j 11:57	0°♐				-4556 Jun 19 j 22:50	0°♋		
	-4561 May 04 j 10:07	0°♑				-4556 Aug 02 j 07:20	0°♌		
retrograde	-4561 Jul 07 j 06:19	21°♑59'08			evening set	-4556 Sep 11 j 13:55	29°♌36'40		
min. Earth dist.	-4561 Aug 04 j 14:34	16°♑30'18	0.46759 AU			-4556 Sep 12 j 02:18	0°♍		
greatest brilliancy	-4561 Aug 11 j 04:12	14°♑12'35	-2.3m		desc. node	-4556 Oct 12 j 14:23	23°♍20'35		
opposition	-4561 Aug 12 j 16:26	13°♑40'41	-5°46'54		max. Earth dist.	-4556 Oct 19 j 08:46	28°♍35'57	2.38321 AU	
direct	-4561 Sep 14 j 13:59	6°♑55'55				-4556 Oct 21 j 03:55	0°♎		
	-4561 Nov 25 j 16:15	0°♒							
asc. node	-4560 Jan 06 j 21:34	22°♒57'43			conjunction	-4556 Nov 10 j 20:31	16°♎11'51	-0°20'58	
	-4560 Jan 19 j 02:09	0°♓			minimum elong	-4556 Nov 10 j 18:45	16°♎08'21	0°20'58	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4556 Nov 28 j 09:37	0°♏	
	-4555 Jan 05 j 17:00	0°♐	
morning rise	-4555 Jan 17 j 03:51	8°♐51'34	
	-4555 Feb 13 j 22:50	0°♑	
	-4555 Mar 26 j 22:15	0°♒	
	-4555 May 09 j 08:28	0°♓	
	-4555 Jun 25 j 04:11	0°♈	
	-4555 Aug 17 j 09:12	0°♉	
asc. node	-4555 Aug 29 j 00:02	5°♉37'40	
retrograde	-4555 Oct 29 j 08:55	22°♉45'48	
opposition	-4555 Dec 07 j 20:03	13°♉21'00	3°23'50
greatest brilliancy	-4555 Dec 07 j 23:21	13°♉17'43	-1.3m
min. Earth dist.	-4555 Dec 09 j 14:02	12°♉39'11	0.66754 AU
direct	-4554 Jan 17 j 19:36	3°♉23'23	
	-4554 Apr 08 j 11:26	0°♊	
	-4554 May 29 j 12:10	0°♋	
	-4554 Jul 13 j 02:09	0°♌	
	-4554 Aug 23 j 05:23	0°♍	
desc. node	-4554 Aug 30 j 11:25	5°♍28'29	
	-4554 Oct 01 j 07:58	0°♎	
	-4554 Nov 08 j 13:07	0°♏	
evening set	-4554 Nov 15 j 17:46	5°♏39'32	
	-4554 Dec 16 j 21:02	0°♐	
conjunction	-4553 Jan 19 j 18:34	25°♐55'22	-1°08'07
minimum elong	-4553 Jan 19 j 18:14	25°♐54'45	1°08'21
	-4553 Jan 25 j 04:55	0°♑	
	-4553 Mar 07 j 05:48	0°♒	
max. Earth dist.	-4553 Mar 07 j 18:13	0°♒22'09	2.46499 AU
morning rise	-4553 Mar 23 j 03:55	11°♒14'44	
	-4553 Apr 19 j 10:26	0°♓	
	-4553 Jun 04 j 00:36	0°♈	
asc. node	-4553 Jul 17 j 00:11	26°♈45'49	
	-4553 Jul 22 j 09:22	0°♉	
	-4553 Sep 13 j 14:38	0°♊	
retrograde	-4553 Dec 06 j 09:06	27°♊43'44	
opposition	-4552 Jan 13 j 04:36	19°♊11'37	5°00'17
greatest brilliancy	-4552 Jan 14 j 01:51	18°♊51'09	-1.5m
min. Earth dist.	-4552 Jan 18 j 17:16	17°♊04'10	0.61385 AU
direct	-4552 Feb 23 j 02:09	9°♊18'18	
	-4552 Apr 29 j 13:56	0°♋	
	-4552 Jun 18 j 16:16	0°♌	
desc. node	-4552 Jul 17 j 10:13	19°♌49'09	
	-4552 Jul 31 j 12:03	0°♍	
	-4552 Sep 09 j 08:00	0°♎	
	-4552 Oct 17 j 23:52	0°♏	
	-4552 Nov 25 j 17:31	0°♐	
	-4551 Jan 04 j 11:43	0°♑	
evening set	-4551 Jan 19 j 03:26	10°♑45'49	
	-4551 Feb 14 j 22:40	0°♒	
conjunction	-4551 Mar 17 j 06:29	21°♒04'40	-0°42'19
minimum elong	-4551 Mar 17 j 08:21	21°♒07'52	0°42'27
	-4551 Mar 30 j 09:49	0°♓	
max. Earth dist.	-4551 Apr 13 j 19:04	9°♓38'05	2.58276 AU
morning rise	-4551 May 09 j 00:52	26°♓14'32	
	-4551 May 14 j 19:45	0°♈	
asc. node	-4551 Jun 02 j 21:36	12°♈16'38	
	-4551 Jun 30 j 21:22	0°♉	
	-4551 Aug 18 j 12:57	0°♊	
	-4551 Oct 08 j 20:49	0°♋	
	-4551 Dec 09 j 06:41	0°♌	
retrograde	-4550 Jan 22 j 09:19	9°♌39'26	
opposition	-4550 Feb 26 j 05:00	2°♌35'23	4°46'59
greatest brilliancy	-4550 Feb 27 j 16:33	2°♌04'26	-2.1m
	-4550 Mar 05 j 15:56	30°℞♋	
min. Earth dist.	-4550 Mar 06 j 15:24	29°♋40'07	0.50253 AU
direct	-4550 Apr 05 j 13:35	23°♋56'13	
	-4550 May 07 j 02:24	0°♌	
desc. node	-4550 Jun 04 j 10:33	12°♌54'10	
	-4550 Jul 03 j 03:09	0°♍	
	-4550 Aug 15 j 13:27	0°♎	
	-4550 Sep 25 j 01:06	0°♏	
	-4550 Nov 04 j 02:03	0°♐	
	-4550 Dec 14 j 22:29	0°♑	
	-4549 Jan 26 j 07:47	0°♒	
evening set	-4549 Mar 11 j 03:24	29°♒45'33	
	-4549 Mar 11 j 12:05	0°♓	
asc. node	-4549 Apr 20 j 17:39	26°♓24'46	
	-4549 Apr 26 j 06:39	0°♈	
conjunction	-4549 Apr 30 j 16:40	2°♈51'10	0°05'41
minimum elong	-4549 Apr 30 j 16:26	2°♈50'48	0°05'41
behind sun begin	-4549 Apr 29 j 21:20	2°♈20'00	
behind sun end	-4549 May 01 j 11:32	3°♈21'36	
max. Earth dist.	-4549 May 10 j 10:53	9°♈08'14	2.65321 AU
	-4549 Jun 12 j 02:06	0°♉	
morning rise	-4549 Jun 17 j 02:46	3°♉12'00	
	-4549 Jul 29 j 07:45	0°♊	
	-4549 Sep 14 j 16:16	0°♋	
	-4549 Nov 01 j 11:28	0°♌	
	-4549 Dec 21 j 04:52	0°♍	
	-4548 Feb 18 j 00:28	0°♎	
retrograde	-4548 Apr 01 j 02:07	9°♎47'44	
desc. node	-4548 Apr 21 j 11:13	7°♎19'26	
opposition	-4548 May 01 j 19:51	4°♎38'56	-0°46'12
greatest brilliancy	-4548 May 01 j 22:01	4°♎37'26	-2.9m
min. Earth dist.	-4548 May 05 j 14:59	3°♎36'34	0.38763 AU
	-4548 May 21 j 14:54	30°℞♍	
direct	-4548 Jun 02 j 11:35	29°♍03'30	
	-4548 Jun 14 j 09:36	0°♎	
	-4548 Aug 21 j 17:41	0°♏	
	-4548 Oct 07 j 04:05	0°♐	
	-4548 Nov 20 j 13:29	0°♑	
	-4547 Jan 04 j 06:17	0°♒	
	-4547 Feb 18 j 23:35	0°♓	
asc. node	-4547 Mar 07 j 14:46	10°♓44'38	
	-4547 Apr 06 j 16:17	0°♈	
evening set	-4547 Apr 20 j 23:23	9°♈06'34	
	-4547 May 23 j 19:17	0°♉	
max. Earth dist.	-4547 Jun 02 j 13:50	6°♉13'44	2.66972 AU
conjunction	-4547 Jun 07 j 07:49	9°♉15'39	0°47'06
minimum elong	-4547 Jun 07 j 06:32	9°♉13'36	0°47'14
	-4547 Jul 09 j 15:14	0°♊	
morning rise	-4547 Jul 22 j 16:48	8°♊27'37	
	-4547 Aug 24 j 14:16	0°♋	
	-4547 Oct 08 j 11:04	0°♌	
	-4547 Nov 21 j 08:29	0°♍	
	-4546 Jan 03 j 15:20	0°♎	
	-4546 Feb 16 j 04:24	0°♏	
desc. node	-4546 Mar 09 j 13:52	14°♏16'05	
	-4546 Apr 03 j 15:40	0°♐	
retrograde	-4546 Jun 15 j 04:21	26°♐56'41	
min. Earth dist.	-4546 Jul 11 j 21:50	22°♐15'26	0.41995 AU
greatest brilliancy	-4546 Jul 17 j 19:16	20°♐24'41	-2.6m
opposition	-4546 Jul 19 j 09:11	19°♐54'42	-6°25'57
direct	-4546 Aug 19 j 12:49	14°♐04'02	
	-4546 Oct 14 j 23:56	0°♑	
	-4546 Dec 09 j 11:05	0°♒	
asc. node	-4545 Jan 23 j 12:46	27°♒00'30	
	-4545 Jan 28 j 10:32	0°♓	
	-4545 Mar 18 j 05:48	0°♈	
	-4545 May 05 j 08:13	0°♉	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

evening set	-4545 May 29 j 12:28	15°♉19'11	
	-4545 Jun 21 j 08:34	0°♊	
max. Earth dist.	-4545 Jun 26 j 20:47	3°♊34'41	2.63246 AU
conjunction	-4545 Jul 15 j 07:24	15°♊39'54	1°09'50
minimum elong	-4545 Jul 15 j 06:51	15°♊39'00	1°10'03
	-4545 Aug 05 j 19:28	0°♋	
morning rise	-4545 Aug 30 j 17:02	16°♋57'03	
	-4545 Sep 18 j 11:50	0°♌	
	-4545 Oct 30 j 12:32	0°♍	
	-4545 Dec 10 j 06:00	0°♎	
	-4544 Jan 19 j 05:46	0°♏	
desc. node	-4544 Jan 25 j 14:12	4°♏46'33	
	-4544 Feb 28 j 08:31	0°♐	
	-4544 Apr 10 j 00:59	0°♑	
	-4544 May 26 j 19:10	0°♒	
retrograde	-4544 Aug 04 j 01:20	24°♒18'05	
min. Earth dist.	-4544 Sep 04 j 18:33	17°♒28'03	0.54371 AU
opposition	-4544 Sep 11 j 16:28	14°♒48'39	-3°43'47
greatest brilliancy	-4544 Sep 10 j 20:07	15°♒08'13	-1.9m
direct	-4544 Oct 17 j 02:30	6°♒53'33	
asc. node	-4544 Dec 10 j 12:10	20°♒58'34	
	-4544 Dec 29 j 22:13	0°♓	
	-4543 Feb 23 j 09:18	0°♈	
	-4543 Apr 14 j 21:42	0°♉	
	-4543 Jun 01 j 19:10	0°♊	
evening set	-4543 Jul 07 j 06:12	23°♊14'24	
	-4543 Jul 17 j 07:22	0°♋	
max. Earth dist.	-4543 Jul 25 j 04:21	5°♋21'17	2.54495 AU
conjunction	-4543 Aug 25 j 10:54	27°♋07'25	1°01'44
minimum elong	-4543 Aug 25 j 12:22	27°♋10'01	1°01'55
	-4543 Aug 29 j 12:02	0°♌	
	-4543 Oct 09 j 16:16	0°♍	
morning rise	-4543 Oct 16 j 10:06	5°♍01'54	
	-4543 Nov 18 j 08:27	0°♎	
desc. node	-4543 Dec 12 j 11:37	18°♎35'43	
	-4543 Dec 27 j 04:55	0°♏	
	-4542 Feb 04 j 01:13	0°♐	
	-4542 Mar 15 j 20:09	0°♑	
	-4542 Apr 26 j 19:11	0°♒	
	-4542 Jun 12 j 03:20	0°♓	
	-4542 Aug 12 j 21:01	0°♈	
retrograde	-4542 Sep 11 j 19:30	5°♈13'31	
	-4542 Oct 09 j 14:00	30°℞♓	
min. Earth dist.	-4542 Oct 18 j 07:18	26°♓39'48	0.63664 AU
opposition	-4542 Oct 21 j 18:53	25°♓15'52	-0°16'06
greatest brilliancy	-4542 Oct 21 j 18:14	25°♓16'32	-1.5m
asc. node	-4542 Oct 28 j 13:44	22°♓36'26	
direct	-4542 Nov 29 j 10:53	16°♓06'18	
	-4541 Jan 23 j 10:08	0°♈	
	-4541 Mar 23 j 17:57	0°♉	
	-4541 May 13 j 02:33	0°♊	
	-4541 Jun 28 j 08:55	0°♋	
	-4541 Aug 10 j 13:57	0°♌	
evening set	-4541 Aug 22 j 08:51	8°♌30'17	
max. Earth dist.	-4541 Sep 09 j 19:03	22°♌03'36	2.42339 AU
	-4541 Sep 20 j 09:45	0°♍	
conjunction	-4541 Oct 17 j 14:37	20°♍44'14	0°09'10
minimum elong	-4541 Oct 17 j 15:18	20°♍45'32	0°09'12
behind sun begin	-4541 Oct 16 j 18:00	20°♍04'32	
behind sun end	-4541 Oct 18 j 12:35	21°♍26'34	
	-4541 Oct 29 j 13:47	0°♎	
desc. node	-4541 Oct 30 j 08:15	0°♎35'54	
	-4541 Dec 06 j 21:50	0°♏	
morning rise	-4541 Dec 20 j 07:15	10°♏30'21	
	-4540 Jan 14 j 06:58	0°♐	
	-4540 Feb 22 j 14:04	0°♑	
	-4540 Apr 03 j 15:34	0°♒	
	-4540 May 17 j 09:21	0°♓	
	-4540 Jul 04 j 08:24	0°♈	
	-4540 Sep 01 j 15:06	0°♉	
asc. node	-4540 Sep 14 j 15:46	4°♉36'34	
retrograde	-4540 Oct 15 j 17:26	9°♉54'00	
opposition	-4540 Nov 24 j 13:13	0°♉15'08	2°31'09
greatest brilliancy	-4540 Nov 24 j 12:28	0°♉15'53	-1.3m
min. Earth dist.	-4540 Nov 24 j 19:31	0°♉08'49	0.67116 AU
	-4540 Nov 25 j 04:19	30°℞♈	
direct	-4539 Jan 04 j 03:30	20°♈25'43	
	-4539 Feb 17 j 07:09	0°♉	
	-4539 Apr 19 j 06:09	0°♊	
	-4539 Jun 06 j 23:55	0°♋	
	-4539 Jul 20 j 22:35	0°♌	
	-4539 Aug 30 j 21:07	0°♍	
desc. node	-4539 Sep 16 j 05:35	12°♍25'58	
	-4539 Oct 08 j 22:23	0°♎	
evening set	-4539 Oct 19 j 20:02	8°♎31'51	
	-4539 Nov 16 j 02:43	0°♏	
conjunction	-4539 Dec 23 j 23:28	29°♏40'56	-0°59'27
minimum elong	-4539 Dec 23 j 20:39	29°♏35'28	0°59'36
	-4539 Dec 24 j 09:17	0°♐	
	-4538 Feb 01 j 15:07	0°♑	
max. Earth dist.	-4538 Feb 09 j 13:46	5°♑56'06	2.41331 AU
morning rise	-4538 Feb 28 j 04:59	19°♑38'27	
	-4538 Mar 14 j 13:48	0°♒	
	-4538 Apr 26 j 18:21	0°♓	
	-4538 Jun 11 j 14:56	0°♈	
	-4538 Jul 31 j 02:06	0°♉	
asc. node	-4538 Aug 02 j 15:26	1°♉28'01	
	-4538 Sep 27 j 06:34	0°♊	
retrograde	-4538 Nov 20 j 21:04	13°♊52'29	
opposition	-4538 Dec 29 j 11:36	4°♊56'35	4°30'51
greatest brilliancy	-4538 Dec 30 j 00:54	4°♊43'33	-1.4m
min. Earth dist.	-4537 Jan 02 j 13:09	3°♊21'09	0.64234 AU
	-4537 Jan 11 j 14:55	30°℞♉	
direct	-4537 Feb 08 j 15:07	24°♉56'26	
	-4537 Mar 10 j 22:36	0°♊	
	-4537 May 13 j 09:10	0°♋	
	-4537 Jun 29 j 04:58	0°♌	
desc. node	-4537 Aug 04 j 03:15	25°♌35'11	
	-4537 Aug 10 j 02:33	0°♍	
	-4537 Sep 18 j 13:06	0°♎	
	-4537 Oct 26 j 22:59	0°♏	
	-4537 Dec 04 j 11:16	0°♐	
evening set	-4537 Dec 27 j 05:54	17°♐25'11	
	-4536 Jan 12 j 23:55	0°♑	
	-4536 Feb 23 j 05:17	0°♒	
conjunction	-4536 Feb 25 j 20:52	1°♒52'46	-0°57'46
minimum elong	-4536 Feb 25 j 22:56	1°♒56'25	0°57'56
max. Earth dist.	-4536 Apr 01 j 10:21	26°♒33'21	2.54133 AU
	-4536 Apr 06 j 12:13	0°♓	
morning rise	-4536 Apr 21 j 22:03	10°♓20'22	
	-4536 May 21 j 21:27	0°♈	
asc. node	-4536 Jun 19 j 13:46	18°♈18'35	
	-4536 Jul 08 j 06:40	0°♉	
	-4536 Aug 27 j 01:05	0°♊	
	-4536 Oct 21 j 05:10	0°♋	
retrograde	-4535 Jan 01 j 20:20	22°♋08'10	
opposition	-4535 Feb 07 j 01:07	14°♋24'01	5°13'31
greatest brilliancy	-4535 Feb 08 j 09:56	13°♋53'53	-1.8m
min. Earth dist.	-4535 Feb 14 j 15:18	11°♋37'32	0.55155 AU

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

direct	-4535 Mar 18 j 19:35	5°♋03'08	
	-4535 May 29 j 20:04	0°♌	
desc. node	-4535 Jun 21 j 03:00	13°♌35'05	
	-4535 Jul 15 j 13:18	0°♍	
	-4535 Aug 25 j 19:25	0°♎	
	-4535 Oct 04 j 06:18	0°♏	
	-4535 Nov 12 j 14:24	0°♐	
	-4535 Dec 22 j 21:21	0°♑	
	-4534 Feb 02 j 19:23	0°♒	
evening set	-4534 Feb 20 j 19:33	12°♒29'09	
	-4534 Mar 18 j 15:06	0°♓	
conjunction	-4534 Apr 14 j 11:19	17°♓47'43	-0°13'07
minimum elong	-4534 Apr 14 j 11:53	17°♓48'40	0°13'10
behind sun begin	-4534 Apr 14 j 00:12	17°♓29'30	
behind sun end	-4534 Apr 14 j 23:35	18°♓07'51	
max. Earth dist.	-4534 Apr 30 j 16:46	28°♓23'07	2.63195 AU
	-4534 May 03 j 04:32	0°♈	
asc. node	-4534 May 07 j 10:13	2°♈44'31	
morning rise	-4534 Jun 02 j 12:26	19°♈30'05	
	-4534 Jun 19 j 00:20	0°♉	
	-4534 Aug 05 j 15:07	0°♊	
	-4534 Sep 23 j 00:36	0°♋	
	-4534 Nov 12 j 08:16	0°♌	
	-4533 Jan 09 j 07:03	0°♍	
retrograde	-4533 Mar 02 j 18:24	13°♍17'26	
opposition	-4533 Apr 03 j 20:30	7°♍28'39	2°20'29
greatest brilliancy	-4533 Apr 04 j 14:56	7°♍14'35	-2.6m
min. Earth dist.	-4533 Apr 11 j 04:50	5°♍14'34	0.42414 AU
direct	-4533 May 08 j 13:27	0°♍35'39	
desc. node	-4533 May 09 j 04:57	0°♍35'49	
	-4533 Jul 24 j 04:06	0°♎	
	-4533 Sep 07 j 06:39	0°♏	
	-4533 Oct 19 j 14:59	0°♐	
	-4533 Dec 01 j 00:11	0°♑	
	-4532 Jan 13 j 11:45	0°♒	
	-4532 Feb 27 j 10:39	0°♓	
asc. node	-4532 Mar 24 j 05:46	16°♓49'07	
evening set	-4532 Apr 05 j 10:05	24°♓41'09	
	-4532 Apr 13 j 16:25	0°♈	
conjunction	-4532 May 23 j 16:35	25°♈34'43	0°32'44
minimum elong	-4532 May 23 j 15:30	25°♈33'00	0°32'49
max. Earth dist.	-4532 May 24 j 09:20	26°♈01'26	2.66981 AU
	-4532 May 30 j 14:56	0°♉	
morning rise	-4532 Jul 08 j 12:16	24°♉50'59	
	-4532 Jul 16 j 12:53	0°♊	
	-4532 Aug 31 j 21:34	0°♋	
	-4532 Oct 16 j 14:10	0°♌	
	-4532 Nov 30 j 21:15	0°♍	
	-4531 Jan 15 j 12:44	0°♎	
	-4531 Mar 04 j 21:24	0°♏	
desc. node	-4531 Mar 26 j 06:23	11°♏36'53	
retrograde	-4531 May 19 j 15:51	27°♏44'09	
min. Earth dist.	-4531 Jun 16 j 02:42	23°♏15'45	0.38571 AU
opposition	-4531 Jun 20 j 11:14	22°♏02'38	-5°37'12
greatest brilliancy	-4531 Jun 19 j 13:14	22°♏18'03	-2.9m
direct	-4531 Jul 20 j 09:18	16°♏55'26	
	-4531 Sep 07 j 18:51	0°♐	
	-4531 Nov 01 j 18:08	0°♑	
	-4531 Dec 20 j 06:52	0°♒	
	-4530 Feb 05 j 22:47	0°♓	
asc. node	-4530 Feb 09 j 03:45	2°♓01'06	
	-4530 Mar 25 j 16:33	0°♈	
	-4530 May 12 j 07:24	0°♉	
evening set	-4530 May 14 j 15:53	1°♉29'30	
max. Earth dist.	-4530 Jun 17 j 05:07	22°♉54'34	2.65327 AU
	-4530 Jun 28 j 04:41	0°♊	
conjunction	-4530 Jun 30 j 08:49	1°♊24'29	1°03'57
minimum elong	-4530 Jun 30 j 07:46	1°♊22'47	1°04'08
	-4530 Aug 12 j 18:51	0°♋	
morning rise	-4530 Aug 14 j 22:54	1°♋27'07	
	-4530 Sep 25 j 20:03	0°♌	
	-4530 Nov 07 j 10:04	0°♍	
	-4530 Dec 18 j 20:36	0°♎	
	-4529 Jan 28 j 16:47	0°♏	
desc. node	-4529 Feb 11 j 06:39	9°♏57'22	
	-4529 Mar 10 j 23:12	0°♐	
	-4529 Apr 23 j 22:45	0°♑	
	-4529 Jun 21 j 02:35	0°♒	
retrograde	-4529 Jul 18 j 08:34	4°♒50'37	
	-4529 Aug 13 j 15:26	30°℞♑	
min. Earth dist.	-4529 Aug 16 j 22:06	28°♑51'45	0.49545 AU
greatest brilliancy	-4529 Aug 23 j 10:50	26°♑28'36	-2.2m
opposition	-4529 Aug 24 j 18:06	25°♑59'56	-5°06'23
direct	-4529 Sep 27 j 13:17	18°♑47'38	
	-4529 Nov 13 j 11:40	0°♒	
asc. node	-4529 Dec 28 j 03:40	21°♒38'58	
	-4528 Jan 12 j 09:08	0°♓	
	-4528 Mar 04 j 01:57	0°♈	
	-4528 Apr 22 j 09:04	0°♉	
	-4528 Jun 08 j 20:02	0°♊	
evening set	-4528 Jun 21 j 09:16	8°♊09'02	
max. Earth dist.	-4528 Jul 12 j 19:54	22°♊18'38	2.58475 AU
	-4528 Jul 24 j 06:36	0°♋	
conjunction	-4528 Aug 08 j 04:50	10°♋10'14	1°09'30
minimum elong	-4528 Aug 08 j 05:29	10°♋11'21	1°09'42
	-4528 Sep 05 j 14:55	0°♌	
morning rise	-4528 Sep 26 j 06:28	14°♌47'18	
	-4528 Oct 17 j 01:45	0°♍	
	-4528 Nov 26 j 01:57	0°♎	
desc. node	-4528 Dec 29 j 05:46	25°♎21'58	
	-4527 Jan 04 j 06:28	0°♏	
	-4527 Feb 12 j 10:44	0°♐	
	-4527 Mar 24 j 15:55	0°♑	
	-4527 May 06 j 12:16	0°♒	
	-4527 Jun 24 j 23:57	0°♓	
retrograde	-4527 Aug 28 j 12:56	20°♓37'59	
min. Earth dist.	-4527 Oct 02 j 07:49	12°♓40'17	0.60675 AU
opposition	-4527 Oct 07 j 05:39	10°♓43'02	-1°32'40
greatest brilliancy	-4527 Oct 06 j 23:39	10°♓49'00	-1.6m
direct	-4527 Nov 13 j 19:16	1°♓57'30	
asc. node	-4527 Nov 14 j 04:10	1°♓57'33	
	-4526 Feb 06 j 10:46	0°♈	
	-4526 Apr 01 j 14:40	0°♉	
	-4526 May 20 j 17:07	0°♊	
	-4526 Jul 05 j 14:12	0°♋	
evening set	-4526 Aug 03 j 05:53	19°♋43'11	
	-4526 Aug 17 j 18:13	0°♌	
max. Earth dist.	-4526 Aug 18 j 12:16	0°♌32'17	2.47258 AU
conjunction	-4526 Sep 25 j 01:26	28°♌01'48	0°35'10
minimum elong	-4526 Sep 25 j 03:21	28°♌05'21	0°35'17
	-4526 Sep 27 j 16:36	0°♍	
	-4526 Nov 06 j 00:40	0°♎	
desc. node	-4526 Nov 16 j 02:32	7°♎49'03	
morning rise	-4526 Nov 22 j 16:53	12°♎57'13	
	-4526 Dec 14 j 12:35	0°♏	
	-4525 Jan 22 j 00:42	0°♐	
	-4525 Mar 02 j 10:20	0°♑	
	-4525 Apr 12 j 16:07	0°♒	
	-4525 May 26 j 23:02	0°♓	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4525 Jul 16 j 00:06	0°♈	
asc. node	-4525 Oct 02 j 05:50	26°♈55'39	
retrograde	-4525 Oct 03 j 06:19	26°♈56'04	
min. Earth dist.	-4525 Nov 11 j 01:50	17°♈35'46	0.66519 AU
opposition	-4525 Nov 12 j 07:02	17°♈06'24	1°31'37
greatest brilliancy	-4525 Nov 12 j 04:37	17°♈08'50	-1.4m
direct	-4525 Dec 22 j 07:12	7°♈29'08	
	-4524 Mar 05 j 01:35	0°♉	
	-4524 Apr 28 j 12:22	0°♊	
	-4524 Jun 14 j 22:54	0°♋	
	-4524 Jul 28 j 12:15	0°♌	
	-4524 Sep 07 j 08:26	0°♍	
evening set	-4524 Sep 24 j 17:43	13°♍13'39	
desc. node	-4524 Oct 02 j 23:07	19°♍33'39	
	-4524 Oct 16 j 09:54	0°♎	
	-4524 Nov 23 j 14:48	0°♏	
conjunction	-4524 Nov 26 j 05:12	2°♏02'52	-0°37'27
minimum elong	-4524 Nov 26 j 02:13	1°♏57'00	0°37'31
max. Earth dist.	-4524 Dec 10 j 02:23	12°♏57'58	2.37699 AU
	-4524 Dec 31 j 21:24	0°♐	
morning rise	-4523 Feb 02 j 03:03	24°♐44'20	
	-4523 Feb 09 j 02:37	0°♑	
	-4523 Mar 22 j 00:41	0°♒	
	-4523 May 04 j 07:15	0°♓	
	-4523 Jun 19 j 15:09	0°♈	
	-4523 Aug 09 j 22:56	0°♉	
asc. node	-4523 Aug 19 j 07:03	4°♉55'48	
	-4523 Oct 27 j 02:30	0°♊	
retrograde	-4523 Nov 06 j 08:39	0°♊38'04	
	-4523 Nov 16 j 05:37	30°℞♉	
opposition	-4523 Dec 15 j 14:03	21°♉22'28	3°50'48
greatest brilliancy	-4523 Dec 15 j 20:27	21°♉16'08	-1.4m
min. Earth dist.	-4523 Dec 18 j 03:38	20°♉21'29	0.66145 AU
direct	-4522 Jan 25 j 17:13	11°♉22'27	
	-4522 Mar 31 j 02:31	0°♊	
	-4522 May 23 j 15:08	0°♋	
	-4522 Jul 07 j 20:56	0°♌	
	-4522 Aug 18 j 05:55	0°♍	
desc. node	-4522 Aug 20 j 22:02	2°♍00'11	
	-4522 Sep 26 j 10:59	0°♎	
	-4522 Nov 03 j 17:09	0°♏	
evening set	-4522 Dec 01 j 02:07	21°♏27'43	
	-4522 Dec 12 j 01:39	0°♐	
	-4521 Jan 20 j 10:11	0°♑	
conjunction	-4521 Feb 02 j 23:42	10°♑04'15	-1°07'07
minimum elong	-4521 Feb 03 j 00:41	10°♑06'04	1°07'20
	-4521 Mar 02 j 11:26	0°♒	
max. Earth dist.	-4521 Mar 18 j 12:20	11°♒19'29	2.49354 AU
morning rise	-4521 Apr 04 j 00:27	22°♒45'19	
	-4521 Apr 14 j 15:40	0°♓	
	-4521 May 30 j 02:27	0°♈	
asc. node	-4521 Jul 07 j 05:08	24°♈00'38	
	-4521 Jul 16 j 23:56	0°♉	
	-4521 Sep 06 j 13:03	0°♊	
	-4521 Nov 10 j 07:17	0°♋	
retrograde	-4521 Dec 15 j 19:46	6°♋31'11	
	-4520 Jan 17 j 10:04	30°℞♊	
opposition	-4520 Jan 22 j 03:29	28°♊14'22	5°10'29
greatest brilliancy	-4520 Jan 23 j 05:12	27°♊49'57	-1.6m
min. Earth dist.	-4520 Jan 28 j 10:58	25°♊50'59	0.59417 AU
direct	-4520 Mar 02 j 18:44	18°♊29'10	
	-4520 Apr 18 j 12:14	0°♋	
	-4520 Jun 11 j 22:46	0°♌	
desc. node	-4520 Jul 07 j 20:58	17°♌19'54	
	-4520 Jul 25 j 17:40	0°♍	
	-4520 Sep 03 j 23:16	0°♎	
	-4520 Oct 12 j 20:26	0°♏	
	-4520 Nov 20 j 17:48	0°♐	
	-4520 Dec 30 j 15:07	0°♑	
evening set	-4519 Jan 31 j 14:09	23°♑11'37	
	-4519 Feb 10 j 04:26	0°♒	
	-4519 Mar 25 j 17:16	0°♓	
conjunction	-4519 Mar 27 j 23:46	1°♓31'42	-0°31'57
minimum elong	-4519 Mar 28 j 01:13	1°♓34'08	0°32'03
max. Earth dist.	-4519 Apr 20 j 10:11	17°♓07'10	2.60233 AU
	-4519 May 10 j 03:08	0°♈	
morning rise	-4519 May 18 j 06:11	5°♈15'26	
asc. node	-4519 May 24 j 01:57	9°♈00'25	
	-4519 Jun 26 j 01:26	0°♉	
	-4519 Aug 13 j 05:46	0°♊	
	-4519 Oct 02 j 04:58	0°♋	
	-4519 Nov 26 j 09:28	0°♌	
retrograde	-4518 Feb 04 j 12:27	21°♌09'04	
opposition	-4518 Mar 10 j 09:29	14°♌30'54	4°11'35
greatest brilliancy	-4518 Mar 11 j 18:44	14°♌03'06	-2.3m
min. Earth dist.	-4518 Mar 18 j 21:51	11°♌40'45	0.47377 AU
direct	-4518 Apr 16 j 16:39	6°♌23'58	
desc. node	-4518 May 25 j 20:40	15°♌34'29	
	-4518 Jun 23 j 04:39	0°♍	
	-4518 Aug 08 j 07:32	0°♎	
	-4518 Sep 18 j 19:24	0°♏	
	-4518 Oct 29 j 10:09	0°♐	
	-4518 Dec 09 j 16:23	0°♑	
	-4517 Jan 21 j 08:42	0°♒	
	-4517 Mar 06 j 17:59	0°♓	
evening set	-4517 Mar 20 j 23:41	9°♓24'03	
asc. node	-4517 Apr 10 j 23:07	23°♓05'32	
	-4517 Apr 21 j 15:15	0°♈	
conjunction	-4517 May 09 j 14:41	11°♈33'48	0°16'05
minimum elong	-4517 May 09 j 14:04	11°♈32'48	0°16'07
max. Earth dist.	-4517 May 16 j 00:39	15°♈40'28	2.66133 AU
	-4517 Jun 07 j 11:00	0°♉	
morning rise	-4517 Jun 25 j 08:17	11°♉23'46	
	-4517 Jul 24 j 13:04	0°♊	
	-4517 Sep 09 j 11:35	0°♋	
	-4517 Oct 26 j 08:51	0°♌	
	-4517 Dec 12 j 23:12	0°♍	
	-4516 Feb 01 j 19:18	0°♎	
desc. node	-4516 Apr 11 j 22:44	26°♎30'30	
retrograde	-4516 Apr 19 j 04:43	26°♎50'20	
opposition	-4516 May 19 j 14:21	21°♎47'30	-2°48'39
greatest brilliancy	-4516 May 19 j 14:40	21°♎47'17	-2.9m
min. Earth dist.	-4516 May 20 j 13:32	21°♎32'05	0.37811 AU
direct	-4516 Jun 19 j 02:14	16°♎39'26	
	-4516 Aug 06 j 23:37	0°♏	
	-4516 Sep 28 j 15:54	0°♐	
	-4516 Nov 14 j 00:02	0°♑	
	-4516 Dec 29 j 15:54	0°♒	
	-4515 Feb 13 j 22:13	0°♓	
asc. node	-4515 Feb 25 j 20:06	7°♓38'32	
	-4515 Apr 01 j 22:10	0°♈	
evening set	-4515 Apr 29 j 16:34	17°♈36'53	
	-4515 May 19 j 04:41	0°♉	
max. Earth dist.	-4515 Jun 07 j 23:24	12°♉36'36	2.66604 AU
conjunction	-4515 Jun 15 j 17:04	17°♉33'47	0°54'14
minimum elong	-4515 Jun 15 j 15:47	17°♉31'44	0°54'23
	-4515 Jul 05 j 00:43	0°♊	
morning rise	-4515 Jul 31 j 00:53	16°♊55'56	
	-4515 Aug 19 j 20:12	0°♋	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4515 Oct 03 j 09:23	0°♌	
	-4515 Nov 15 j 17:58	0°♍	
	-4515 Dec 28 j 05:47	0°♎	
	-4514 Feb 08 j 12:04	0°♏	
desc. node	-4514 Feb 28 j 00:12	13°♏38'35	
	-4514 Mar 24 j 03:13	0°♐	
	-4514 May 14 j 10:21	0°♑	
retrograde	-4514 Jun 28 j 03:11	11°♑59'55	
min. Earth dist.	-4514 Jul 25 j 15:13	6°♑53'57	0.44535 AU
greatest brilliancy	-4514 Aug 01 j 00:37	4°♑45'37	-2.4m
opposition	-4514 Aug 02 j 15:05	4°♑13'07	-6°11'03
	-4514 Aug 16 j 21:07	30°℞♐	
direct	-4514 Sep 03 j 17:41	27°♐52'21	
	-4514 Sep 22 j 06:53	0°♑	
	-4514 Dec 01 j 10:04	0°♒	
asc. node	-4513 Jan 13 j 18:43	24°♒48'59	
	-4513 Jan 22 j 12:29	0°♓	
	-4513 Mar 13 j 03:14	0°♈	
	-4513 Apr 30 j 14:35	0°♉	
evening set	-4513 Jun 07 j 02:31	23°♉46'15	
	-4513 Jun 16 j 18:29	0°♊	
max. Earth dist.	-4513 Jul 02 j 19:02	10°♊26'20	2.61742 AU
conjunction	-4513 Jul 24 j 03:09	24°♊34'08	1°11'13
minimum elong	-4513 Jul 24 j 02:59	24°♊33'52	1°11'26
	-4513 Aug 01 j 05:15	0°♋	
morning rise	-4513 Sep 09 j 06:44	26°♋50'25	
	-4513 Sep 13 j 18:45	0°♌	
	-4513 Oct 25 j 14:06	0°♍	
	-4513 Dec 05 j 00:47	0°♎	
	-4512 Jan 13 j 16:35	0°♏	
desc. node	-4512 Jan 15 j 22:44	1°♏42'47	
	-4512 Feb 22 j 09:13	0°♐	
	-4512 Apr 03 j 08:34	0°♑	
	-4512 May 18 j 00:09	0°♒	
	-4512 Jul 17 j 02:49	0°♓	
retrograde	-4512 Aug 13 j 07:25	4°♓38'26	
	-4512 Sep 08 j 00:44	30°℞♒	
min. Earth dist.	-4512 Sep 15 j 04:23	27°♒22'45	0.56827 AU
opposition	-4512 Sep 21 j 10:30	24°♒56'12	-2°55'05
greatest brilliancy	-4512 Sep 20 j 20:05	25°♒10'17	-1.8m
direct	-4512 Oct 27 j 16:39	16°♒41'06	
asc. node	-4512 Nov 30 j 19:05	22°♒53'55	
	-4512 Dec 19 j 14:02	0°♓	
	-4511 Feb 17 j 05:16	0°♈	
	-4511 Apr 09 j 18:30	0°♉	
	-4511 May 28 j 01:22	0°♊	
	-4511 Jul 12 j 16:52	0°♋	
evening set	-4511 Jul 16 j 16:15	2°♋41'33	
max. Earth dist.	-4511 Aug 02 j 00:26	13°♋54'23	2.52051 AU
	-4511 Aug 24 j 21:44	0°♌	
conjunction	-4511 Sep 04 j 22:22	7°♌54'55	0°54'12
minimum elong	-4511 Sep 05 j 00:11	7°♌58'13	0°54'22
	-4511 Oct 04 j 24:00	0°♍	
morning rise	-4511 Oct 28 j 23:54	18°♍05'42	
	-4511 Nov 13 j 13:06	0°♎	
desc. node	-4511 Dec 02 j 21:31	14°♎57'23	
	-4511 Dec 22 j 06:00	0°♏	
	-4510 Jan 29 j 22:23	0°♐	
	-4510 Mar 10 j 12:31	0°♑	
	-4510 Apr 21 j 02:34	0°♒	
	-4510 Jun 05 j 09:28	0°♓	
	-4510 Jul 30 j 00:42	0°♈	
retrograde	-4510 Sep 19 j 17:35	13°♈36'18	
asc. node	-4510 Oct 18 j 20:14	7°♈57'04	
min. Earth dist.	-4510 Oct 27 j 02:59	4°♈44'45	0.64959 AU
opposition	-4510 Oct 29 j 19:17	3°♈40'06	0°25'27
greatest brilliancy	-4510 Oct 29 j 18:06	3°♈41'17	-1.5m
	-4510 Nov 08 j 06:55	30°℞♓	
direct	-4510 Dec 08 j 00:28	24°♓19'19	
	-4509 Jan 09 j 23:00	0°♈	
	-4509 Mar 17 j 09:12	0°♉	
	-4509 May 07 j 21:27	0°♊	
	-4509 Jun 23 j 13:05	0°♋	
	-4509 Aug 05 j 21:30	0°♌	
evening set	-4509 Sep 03 j 01:35	20°♌31'29	
	-4509 Sep 15 j 17:49	0°♍	
max. Earth dist.	-4509 Sep 28 j 18:38	9°♍52'34	2.39891 AU
desc. node	-4509 Oct 20 j 18:39	26°♍48'41	
	-4509 Oct 24 j 21:09	0°♎	
conjunction	-4509 Oct 31 j 12:02	5°♎09'32	-0°07'46
minimum elong	-4509 Oct 31 j 11:24	5°♎08'16	0°07'47
behind sun begin	-4509 Oct 30 j 11:49	4°♎22'17	
behind sun end	-4509 Nov 01 j 10:58	5°♎54'16	
	-4509 Dec 02 j 03:58	0°♏	
morning rise	-4508 Jan 05 j 12:55	26°♏56'03	
	-4508 Jan 09 j 11:32	0°♐	
	-4508 Feb 17 j 16:55	0°♑	
	-4508 Mar 29 j 15:39	0°♒	
	-4508 May 12 j 02:49	0°♓	
	-4508 Jun 28 j 06:02	0°♈	
	-4508 Aug 22 j 03:12	0°♉	
asc. node	-4508 Sep 04 j 21:05	6°♉05'35	
retrograde	-4508 Oct 23 j 12:28	17°♉44'01	
opposition	-4508 Dec 02 j 04:32	8°♉12'28	3°02'37
greatest brilliancy	-4508 Dec 02 j 05:46	8°♉11'15	-1.3m
min. Earth dist.	-4508 Dec 03 j 06:32	7°♉46'31	0.67049 AU
	-4508 Dec 26 j 20:00	30°℞♈	
direct	-4507 Jan 12 j 01:15	28°♈17'59	
	-4507 Jan 29 j 06:29	0°♉	
	-4507 Apr 12 j 13:33	0°♊	
	-4507 Jun 01 j 13:59	0°♋	
	-4507 Jul 15 j 22:35	0°♌	
	-4507 Aug 26 j 00:40	0°♍	
desc. node	-4507 Sep 06 j 15:24	8°♍47'18	
	-4507 Oct 04 j 03:20	0°♎	
evening set	-4507 Nov 03 j 20:55	24°♎06'57	
	-4507 Nov 11 j 08:11	0°♏	
	-4507 Dec 19 j 14:58	0°♐	
conjunction	-4506 Jan 08 j 08:04	15°♐11'43	-1°06'04
minimum elong	-4506 Jan 08 j 06:34	15°♐08'52	1°06'16
	-4506 Jan 27 j 21:02	0°♑	
max. Earth dist.	-4506 Feb 26 j 03:04	21°♑35'03	2.44146 AU
	-4506 Mar 09 j 19:34	0°♒	
morning rise	-4506 Mar 13 j 14:07	2°♒41'29	
	-4506 Apr 21 j 22:26	0°♓	
	-4506 Jun 06 j 13:17	0°♈	
asc. node	-4506 Jul 23 j 21:04	29°♈11'10	
	-4506 Jul 25 j 06:04	0°♉	
	-4506 Sep 17 j 22:59	0°♊	
retrograde	-4506 Nov 29 j 13:47	22°♊09'35	
opposition	-4505 Jan 06 j 19:03	13°♊26'08	4°49'03
greatest brilliancy	-4505 Jan 07 j 12:41	13°♊09'02	-1.5m
min. Earth dist.	-4505 Jan 11 j 16:22	11°♊32'31	0.62790 AU
direct	-4505 Feb 16 j 21:01	3°♊28'45	
	-4505 May 05 j 19:20	0°♋	
	-4505 Jun 23 j 08:02	0°♌	
desc. node	-4505 Jul 25 j 13:42	22°♌33'13	
	-4505 Aug 04 j 18:16	0°♍	
	-4505 Sep 13 j 10:21	0°♎	
	-4505 Oct 21 j 23:21	0°♏	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4505 Nov 29 j 13:47	0°♐	
	-4504 Jan 08 j 04:27	0°♑	
evening set	-4504 Jan 10 j 02:00	1°♑24'31	
	-4504 Feb 18 j 11:35	0°♒	
conjunction	-4504 Mar 08 j 18:06	13°♒31'20	-0°49'22
minimum elong	-4504 Mar 08 j 20:10	13°♒34'55	0°49'30
	-4504 Apr 01 j 19:26	0°♓	
max. Earth dist.	-4504 Apr 08 j 20:24	4°♓44'34	2.56513 AU
morning rise	-4504 May 01 j 21:33	20°♓02'45	
	-4504 May 17 j 03:41	0°♈	
asc. node	-4504 Jun 09 j 18:57	15°♈10'34	
	-4504 Jul 03 j 07:13	0°♉	
	-4504 Aug 21 j 07:54	0°♊	
	-4504 Oct 12 j 21:51	0°♋	
	-4504 Dec 24 j 02:59	0°♌	
retrograde	-4503 Jan 13 j 03:27	2°♌16'31	
	-4503 Feb 01 j 03:58	30°℞♋	
opposition	-4503 Feb 17 j 15:03	24°♋53'32	5°02'17
greatest brilliancy	-4503 Feb 19 j 02:09	24°♋22'10	-2.0m
min. Earth dist.	-4503 Feb 25 j 18:43	21°♋59'33	0.52518 AU
direct	-4503 Mar 28 j 17:30	15°♋53'09	
	-4503 May 18 j 13:58	0°♌	
desc. node	-4503 Jun 11 j 13:50	13°♌00'24	
	-4503 Jul 08 j 08:15	0°♍	
	-4503 Aug 19 j 16:00	0°♎	
	-4503 Sep 28 j 15:19	0°♏	
	-4503 Nov 07 j 07:16	0°♐	
	-4503 Dec 17 j 20:11	0°♑	
	-4502 Jan 28 j 22:53	0°♒	
evening set	-4502 Mar 03 j 10:58	22°♒58'34	
	-4502 Mar 13 j 21:56	0°♓	
conjunction	-4502 Apr 23 j 21:13	26°♓58'32	-0°02'11
minimum elong	-4502 Apr 23 j 21:21	26°♓58'43	0°02'12
behind sun begin	-4502 Apr 23 j 00:59	26°♓25'40	
behind sun end	-4502 Apr 24 j 17:43	27°♓31'46	
asc. node	-4502 Apr 27 j 15:06	29°♓24'19	
	-4502 Apr 28 j 13:07	0°♈	
max. Earth dist.	-4502 May 06 j 11:49	5°♈08'12	2.64469 AU
morning rise	-4502 Jun 10 j 23:20	27°♈51'35	
	-4502 Jun 14 j 08:03	0°♉	
	-4502 Jul 31 j 17:01	0°♊	
	-4502 Sep 17 j 11:12	0°♋	
	-4502 Nov 05 j 04:26	0°♌	
	-4502 Dec 27 j 07:50	0°♍	
retrograde	-4501 Mar 19 j 08:48	28°♍07'53	
opposition	-4501 Apr 19 j 15:51	22°♍44'04	0°42'40
greatest brilliancy	-4501 Apr 19 j 20:46	22°♍40'32	-2.8m
min. Earth dist.	-4501 Apr 25 j 08:29	21°♍06'22	0.40145 AU
desc. node	-4501 Apr 29 j 14:17	19°♍57'18	
direct	-4501 May 22 j 14:45	16°♍36'14	
	-4501 Jul 09 j 20:05	0°♎	
	-4501 Aug 29 j 16:26	0°♏	
	-4501 Oct 12 j 20:18	0°♐	
	-4501 Nov 25 j 04:06	0°♑	
	-4500 Jan 08 j 05:36	0°♒	
	-4500 Feb 22 j 13:06	0°♓	
asc. node	-4500 Mar 14 j 12:03	13°♓36'31	
	-4500 Apr 08 j 23:58	0°♈	
evening set	-4500 Apr 14 j 09:54	3°♈27'49	
	-4500 May 26 j 00:43	0°♉	
max. Earth dist.	-4500 May 29 j 18:30	2°♉23'06	2.67084 AU
conjunction	-4500 Jun 01 j 02:52	3°♉52'58	0°41'23
minimum elong	-4500 Jun 01 j 01:38	3°♉51'00	0°41'29
	-4500 Jul 11 j 21:35	0°♊	
morning rise	-4500 Jul 16 j 15:18	3°♊03'13	
	-4500 Aug 27 j 01:07	0°♋	
	-4500 Oct 11 j 06:30	0°♌	
	-4500 Nov 24 j 17:25	0°♍	
	-4499 Jan 07 j 21:15	0°♎	
	-4499 Feb 21 j 22:08	0°♏	
desc. node	-4499 Mar 16 j 16:42	14°♏18'16	
	-4499 Apr 13 j 17:42	0°♐	
retrograde	-4499 Jun 04 j 06:53	15°♐04'56	
min. Earth dist.	-4499 Jun 30 j 21:22	10°♐35'58	0.40213 AU
greatest brilliancy	-4499 Jul 05 j 23:07	9°♐05'48	-2.7m
opposition	-4499 Jul 07 j 08:21	8°♐41'01	-6°19'31
direct	-4499 Aug 06 j 19:16	3°♐12'56	
	-4499 Oct 23 j 01:45	0°♑	
	-4499 Dec 13 j 15:46	0°♒	
asc. node	-4498 Jan 30 j 09:50	29°♒20'41	
	-4498 Jan 31 j 11:14	0°♓	
	-4498 Mar 20 j 18:09	0°♈	
	-4498 May 07 j 15:23	0°♉	
evening set	-4498 May 23 j 04:19	9°♉50'33	
max. Earth dist.	-4498 Jun 22 j 19:53	29°♉29'24	2.64284 AU
	-4498 Jun 23 j 14:47	0°♊	
conjunction	-4498 Jul 08 j 20:44	9°♊55'34	1°07'51
minimum elong	-4498 Jul 08 j 19:57	9°♊54'16	1°08'03
	-4498 Aug 08 j 03:56	0°♋	
morning rise	-4498 Aug 23 j 19:45	10°♋34'27	
	-4498 Sep 21 j 01:02	0°♌	
	-4498 Nov 02 j 08:08	0°♍	
	-4498 Dec 13 j 09:10	0°♎	
	-4497 Jan 22 j 17:13	0°♏	
desc. node	-4497 Feb 01 j 17:40	7°♏28'01	
	-4497 Mar 04 j 05:34	0°♐	
	-4497 Apr 15 j 15:01	0°♑	
	-4497 Jun 03 j 20:21	0°♒	
retrograde	-4497 Jul 28 j 16:56	16°♒41'54	
min. Earth dist.	-4497 Aug 28 j 11:09	10°♒14'43	0.52257 AU
opposition	-4497 Sep 04 j 21:07	7°♒27'02	-4°19'55
greatest brilliancy	-4497 Sep 03 j 19:55	7°♒50'49	-2.0m
	-4497 Oct 04 j 14:34	30°℞♑	
direct	-4497 Oct 09 j 14:20	29°♑50'05	
	-4497 Oct 14 j 16:46	0°♒	
asc. node	-4497 Dec 18 j 08:57	21°♒09'03	
	-4496 Jan 04 j 20:01	0°♓	
	-4496 Feb 27 j 10:48	0°♈	
	-4496 Apr 17 j 10:17	0°♉	
	-4496 Jun 04 j 03:49	0°♊	
evening set	-4496 Jun 30 j 08:58	17°♊05'40	
	-4496 Jul 19 j 16:20	0°♋	
max. Earth dist.	-4496 Jul 19 j 16:25	0°♋00'08	2.56362 AU
conjunction	-4496 Aug 17 j 20:30	20°♋02'46	1°05'49
minimum elong	-4496 Aug 17 j 21:38	20°♋04'45	1°06'01
	-4496 Aug 31 j 23:43	0°♌	
morning rise	-4496 Oct 07 j 09:16	26°♌21'04	
	-4496 Oct 12 j 07:43	0°♍	
	-4496 Nov 21 j 03:57	0°♎	
desc. node	-4496 Dec 19 j 15:20	21°♎52'11	
	-4496 Dec 30 j 04:08	0°♏	
	-4495 Feb 07 j 03:22	0°♐	
	-4495 Mar 19 j 01:21	0°♑	
	-4495 Apr 30 j 06:24	0°♒	
	-4495 Jun 16 j 11:50	0°♓	
retrograde	-4495 Sep 05 j 19:38	29°♓33'25	
min. Earth dist.	-4495 Oct 11 j 13:57	21°♓15'22	0.62432 AU
opposition	-4495 Oct 15 j 17:08	19°♓36'10	-0°47'27
greatest brilliancy	-4495 Oct 15 j 14:36	19°♓38'42	-1.6m

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

asc. node	-4495 Nov 04 j 10:06	12°♓52'00	
direct	-4495 Nov 22 j 22:31	10°♓36'37	
	-4494 Jan 29 j 02:32	0°♈	
	-4494 Mar 26 j 21:26	0°♉	
	-4494 May 15 j 17:27	0°♊	
	-4494 Jun 30 j 21:01	0°♋	
evening set	-4494 Aug 13 j 21:05	0°♌32'27	
	-4494 Aug 13 j 02:56	0°♌	
max. Earth dist.	-4494 Aug 29 j 21:31	12°♌07'18	2.44519 AU
	-4494 Sep 23 j 00:48	0°♍	
conjunction	-4494 Oct 07 j 11:28	10°♍55'16	0°21'07
minimum elong	-4494 Oct 07 j 12:52	10°♍57'55	0°21'11
	-4494 Nov 01 j 07:06	0°♎	
desc. node	-4494 Nov 06 j 12:15	4°♎02'51	
morning rise	-4494 Dec 07 j 22:53	28°♎37'28	
	-4494 Dec 09 j 17:00	0°♏	
	-4493 Jan 17 j 02:57	0°♐	
	-4493 Feb 25 j 10:10	0°♑	
	-4493 Apr 07 j 12:00	0°♒	
	-4493 May 21 j 08:37	0°♓	
	-4493 Jul 08 j 22:10	0°♈	
	-4493 Sep 11 j 12:26	0°♉	
asc. node	-4493 Sep 22 j 12:28	2°♉49'14	
retrograde	-4493 Oct 10 j 23:41	4°♉50'56	
	-4493 Nov 07 j 03:32	30°℞♈	
opposition	-4493 Nov 19 j 22:45	25°♈06'53	2°07'06
greatest brilliancy	-4493 Nov 19 j 20:55	25°♈08'43	-1.4m
min. Earth dist.	-4493 Nov 19 j 13:14	25°♈16'26	0.66973 AU
direct	-4493 Dec 30 j 07:57	15°♈22'21	
	-4492 Feb 24 j 22:29	0°♉	
	-4492 Apr 22 j 14:58	0°♊	
	-4492 Jun 09 j 20:06	0°♋	
	-4492 Jul 23 j 16:09	0°♌	
	-4492 Sep 02 j 14:42	0°♍	
desc. node	-4492 Sep 23 j 09:35	15°♍49'32	
evening set	-4492 Oct 08 j 14:12	27°♍35'05	
	-4492 Oct 11 j 16:37	0°♎	
	-4492 Nov 18 j 21:17	0°♏	
conjunction	-4492 Dec 11 j 19:55	18°♏02'47	-0°51'19
minimum elong	-4492 Dec 11 j 16:36	17°♏56'17	0°51'26
	-4492 Dec 27 j 03:17	0°♐	
max. Earth dist.	-4491 Jan 22 j 10:52	20°♐15'42	2.39278 AU
	-4491 Feb 04 j 07:47	0°♑	
morning rise	-4491 Feb 17 j 05:26	9°♑37'32	
	-4491 Mar 17 j 04:53	0°♒	
	-4491 Apr 29 j 08:26	0°♓	
	-4491 Jun 14 j 07:33	0°♈	
	-4491 Aug 03 j 08:21	0°♉	
asc. node	-4491 Aug 09 j 12:34	3°♉26'55	
	-4491 Oct 04 j 05:34	0°♊	
retrograde	-4491 Nov 14 j 14:02	8°♊37'16	
	-4491 Dec 22 j 07:50	30°℞♉	
opposition	-4491 Dec 23 j 12:15	29°♉32'05	4°14'58
greatest brilliancy	-4491 Dec 23 j 22:20	29°♉22'11	-1.4m
min. Earth dist.	-4491 Dec 26 j 21:59	28°♉11'44	0.65212 AU
direct	-4490 Feb 02 j 16:58	19°♉31'21	
	-4490 Mar 20 j 08:47	0°♊	
	-4490 May 17 j 07:04	0°♋	
	-4490 Jul 02 j 10:30	0°♌	
desc. node	-4490 Aug 11 j 07:12	28°♌37'42	
	-4490 Aug 13 j 03:27	0°♍	
	-4490 Sep 21 j 12:06	0°♎	
	-4490 Oct 29 j 20:27	0°♏	
	-4490 Dec 07 j 06:29	0°♐	
evening set	-4490 Dec 16 j 01:45	6°♐47'23	
	-4489 Jan 15 j 16:15	0°♑	
conjunction	-4489 Feb 16 j 06:26	23°♑11'24	-1°02'43
minimum elong	-4489 Feb 16 j 08:14	23°♑14'39	1°02'55
	-4489 Feb 25 j 18:30	0°♒	
max. Earth dist.	-4489 Mar 27 j 11:42	20°♒48'35	2.52059 AU
	-4489 Apr 09 j 22:38	0°♓	
morning rise	-4489 Apr 15 j 00:43	3°♓26'13	
	-4489 May 25 j 07:05	0°♈	
asc. node	-4489 Jun 27 j 10:50	21°♈04'50	
	-4489 Jul 11 j 19:44	0°♉	
	-4489 Aug 31 j 04:21	0°♊	
	-4489 Oct 27 j 22:55	0°♋	
retrograde	-4489 Dec 25 j 19:29	15°♋40'26	
opposition	-4488 Jan 31 j 13:27	7°♋40'53	5°14'35
greatest brilliancy	-4488 Feb 01 j 19:25	7°♋12'56	-1.7m
min. Earth dist.	-4488 Feb 07 j 15:21	5°♋03'01	0.57156 AU
	-4488 Feb 24 j 02:19	30°℞♊	
direct	-4488 Mar 11 j 19:17	28°♊07'20	
	-4488 Mar 29 j 04:18	0°♋	
	-4488 Jun 04 j 07:51	0°♌	
desc. node	-4488 Jun 28 j 06:08	15°♌17'12	
	-4488 Jul 19 j 14:02	0°♍	
	-4488 Aug 29 j 08:29	0°♎	
	-4488 Oct 07 j 12:49	0°♏	
	-4488 Nov 15 j 15:15	0°♐	
	-4488 Dec 25 j 16:43	0°♑	
	-4487 Feb 05 j 09:40	0°♒	
evening set	-4487 Feb 12 j 08:31	4°♒52'19	
	-4487 Mar 21 j 00:55	0°♓	
conjunction	-4487 Apr 07 j 03:41	11°♓25'30	-0°21'08
minimum elong	-4487 Apr 07 j 04:38	11°♓27'05	0°21'12
max. Earth dist.	-4487 Apr 26 j 13:43	24°♓11'47	2.61973 AU
	-4487 May 05 j 11:41	0°♈	
asc. node	-4487 May 14 j 08:00	5°♈43'36	
morning rise	-4487 May 27 j 02:33	13°♈56'26	
	-4487 Jun 21 j 07:36	0°♉	
	-4487 Aug 08 j 03:12	0°♊	
	-4487 Sep 26 j 02:43	0°♋	
	-4487 Nov 17 j 00:56	0°♌	
	-4486 Jan 24 j 07:01	0°♍	
retrograde	-4486 Feb 18 j 19:03	3°♍36'12	
	-4486 Mar 15 j 02:28	30°℞♌	
opposition	-4486 Mar 23 j 16:01	27°♌25'06	3°17'04
greatest brilliancy	-4486 Mar 24 j 18:40	27°♌03'49	-2.5m
min. Earth dist.	-4486 Mar 31 j 18:30	24°♌50'24	0.44555 AU
direct	-4486 Apr 28 j 15:11	19°♌56'35	
desc. node	-4486 May 16 j 08:02	22°♌02'37	
	-4486 Jun 08 j 13:16	0°♍	
	-4486 Jul 30 j 22:26	0°♎	
	-4486 Sep 12 j 00:40	0°♏	
	-4486 Oct 23 j 10:58	0°♐	
	-4486 Dec 04 j 05:39	0°♑	
	-4485 Jan 16 j 06:56	0°♒	
	-4485 Mar 01 j 22:17	0°♓	
evening set	-4485 Mar 30 j 12:29	18°♓42'56	
asc. node	-4485 Apr 01 j 03:52	19°♓46'48	
	-4485 Apr 16 j 23:26	0°♈	
conjunction	-4485 May 18 j 07:50	20°♈05'48	0°26'00
minimum elong	-4485 May 18 j 06:55	20°♈04'20	0°26'02
max. Earth dist.	-4485 May 21 j 11:04	22°♈05'56	2.66715 AU
	-4485 Jun 02 j 20:17	0°♉	
morning rise	-4485 Jul 03 j 11:45	19°♉33'02	
	-4485 Jul 19 j 19:51	0°♊	
	-4485 Sep 04 j 10:33	0°♋	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4485 Oct 20 j 14:46	0°♌	
	-4485 Dec 05 j 18:45	0°♍	
	-4484 Jan 22 j 02:46	0°♎	
	-4484 Mar 15 j 12:12	0°♏	
desc. node	-4484 Apr 02 j 09:51	7°♏39'17	
retrograde	-4484 May 06 j 16:23	14°♏35'42	
min. Earth dist.	-4484 Jun 04 j 12:53	9°♏53'34	0.37840 AU
opposition	-4484 Jun 06 j 15:56	9°♏19'03	-4°36'54
greatest brilliancy	-4484 Jun 06 j 05:10	9°♏26'20	-2.9m
direct	-4484 Jul 06 j 14:11	4°♏18'54	
	-4484 Sep 17 j 23:04	0°♐	
	-4484 Nov 06 j 18:16	0°♑	
	-4484 Dec 23 j 18:47	0°♒	
	-4483 Feb 08 j 17:28	0°♓	
asc. node	-4483 Feb 16 j 01:09	4°♓39'04	
	-4483 Mar 28 j 02:26	0°♈	
evening set	-4483 May 08 j 07:36	26°♈02'36	
	-4483 May 14 j 13:25	0°♉	
max. Earth dist.	-4483 Jun 13 j 10:09	19°♉02'29	2.66009 AU
conjunction	-4483 Jun 24 j 02:24	25°♉54'27	1°00'18
minimum elong	-4483 Jun 24 j 01:13	25°♉52'33	1°00'27
	-4483 Jun 30 j 10:27	0°♊	
morning rise	-4483 Aug 08 j 11:59	25°♊34'38	
	-4483 Aug 15 j 03:39	0°♋	
	-4483 Sep 28 j 10:34	0°♌	
	-4483 Nov 10 j 08:58	0°♍	
	-4483 Dec 22 j 05:56	0°♎	
	-4482 Feb 01 j 15:12	0°♏	
desc. node	-4482 Feb 18 j 10:11	12°♏06'45	
	-4482 Mar 15 j 16:15	0°♐	
	-4482 Apr 30 j 12:44	0°♑	
retrograde	-4482 Jul 09 j 22:48	25°♑49'21	
min. Earth dist.	-4482 Aug 07 j 13:37	20°♑14'42	0.47281 AU
greatest brilliancy	-4482 Aug 14 j 03:25	17°♑55'18	-2.3m
opposition	-4482 Aug 15 j 14:47	17°♑23'53	-5°38'19
direct	-4482 Sep 17 j 15:11	10°♑33'48	
	-4482 Nov 21 j 13:28	0°♒	
asc. node	-4481 Jan 04 j 00:44	23°♒04'40	
	-4481 Jan 16 j 03:45	0°♓	
	-4481 Mar 07 j 20:29	0°♈	
	-4481 Apr 25 j 18:47	0°♉	
	-4481 Jun 12 j 03:13	0°♊	
evening set	-4481 Jun 15 j 19:30	2°♊22'41	
max. Earth dist.	-4481 Jul 09 j 01:00	17°♊35'10	2.60038 AU
	-4481 Jul 27 j 14:59	0°♋	
conjunction	-4481 Aug 02 j 04:43	3°♋46'10	1°10'53
minimum elong	-4481 Aug 02 j 05:00	3°♋46'39	1°11'07
	-4481 Sep 09 j 02:35	0°♌	
morning rise	-4481 Sep 19 j 07:00	7°♌13'24	
	-4481 Oct 20 j 18:02	0°♍	
	-4481 Nov 29 j 23:09	0°♎	
desc. node	-4480 Jan 06 j 09:20	28°♎29'46	
	-4480 Jan 08 j 08:32	0°♏	
	-4480 Feb 16 j 17:20	0°♐	
	-4480 Mar 28 j 04:07	0°♑	
	-4480 May 10 j 13:19	0°♒	
	-4480 Jul 01 j 10:45	0°♓	
retrograde	-4480 Aug 22 j 04:09	14°♓24'38	
min. Earth dist.	-4480 Sep 25 j 03:10	6°♓45'06	0.59051 AU
opposition	-4480 Sep 30 j 16:01	4°♓33'57	-2°06'54
greatest brilliancy	-4480 Sep 30 j 06:46	4°♓43'05	-1.7m
	-4480 Oct 13 j 04:23	30°♓℞♒	
direct	-4480 Nov 06 j 16:48	26°♒01'02	
asc. node	-4480 Nov 21 j 01:19	27°♒14'46	
	-4480 Dec 03 j 11:41	0°♓	

	-4479 Feb 10 j 11:31	0°♈	
	-4479 Apr 04 j 10:19	0°♉	
	-4479 May 23 j 04:48	0°♊	
	-4479 Jul 08 j 00:40	0°♋	
evening set	-4479 Jul 26 j 12:43	12°♋37'59	
max. Earth dist.	-4479 Aug 10 j 21:31	23°♋21'36	2.49451 AU
	-4479 Aug 20 j 06:14	0°♌	
conjunction	-4479 Sep 16 j 01:58	19°♌26'44	0°44'14
minimum elong	-4479 Sep 16 j 03:57	19°♌30'23	0°44'21
	-4479 Sep 30 j 07:26	0°♍	
	-4479 Nov 08 j 18:18	0°♎	
morning rise	-4479 Nov 11 j 13:10	2°♎09'02	
desc. node	-4479 Nov 23 j 06:50	11°♎14'28	
	-4479 Dec 17 j 08:39	0°♏	
	-4478 Jan 24 j 22:17	0°♐	
	-4478 Mar 05 j 08:45	0°♑	
	-4478 Apr 15 j 16:15	0°♒	
	-4478 May 30 j 05:28	0°♓	
	-4478 Jul 20 j 13:12	0°♈	
retrograde	-4478 Sep 27 j 12:50	21°♈45'15	
asc. node	-4478 Oct 09 j 02:41	20°♈50'58	
min. Earth dist.	-4478 Nov 04 j 18:02	12°♈37'19	0.65939 AU
opposition	-4478 Nov 06 j 14:57	11°♈52'09	1°04'48
greatest brilliancy	-4478 Nov 06 j 12:38	11°♈54'29	-1.4m
direct	-4478 Dec 16 j 07:43	2°♈21'37	
	-4477 Mar 10 j 08:45	0°♉	
	-4477 May 02 j 11:24	0°♊	
	-4477 Jun 18 j 14:55	0°♋	
	-4477 Aug 01 j 03:18	0°♌	
	-4477 Sep 11 j 00:35	0°♍	
evening set	-4477 Sep 15 j 14:15	3°♍26'55	
desc. node	-4477 Oct 11 j 03:13	23°♍00'22	
	-4477 Oct 20 j 03:23	0°♎	
max. Earth dist.	-4477 Oct 28 j 11:52	6°♎31'07	2.38029 AU
conjunction	-4477 Nov 15 j 07:59	20°♎30'51	-0°25'02
minimum elong	-4477 Nov 15 j 05:53	20°♎26'43	0°25'05
	-4477 Nov 27 j 09:18	0°♏	
	-4476 Jan 04 j 16:00	0°♐	
morning rise	-4476 Jan 21 j 20:42	13°♐17'22	
	-4476 Feb 12 j 20:23	0°♑	
	-4476 Mar 24 j 17:30	0°♒	
	-4476 May 07 j 00:07	0°♓	
	-4476 Jun 22 j 13:13	0°♈	
	-4476 Aug 13 j 22:17	0°♉	
asc. node	-4476 Aug 26 j 04:02	6°♉07'19	
retrograde	-4476 Oct 31 j 09:15	25°♉32'51	
opposition	-4476 Dec 09 j 20:34	16°♉09'43	3°31'25
greatest brilliancy	-4476 Dec 10 j 00:27	16°♉05'52	-1.3m
min. Earth dist.	-4476 Dec 11 j 18:23	15°♉24'12	0.66680 AU
direct	-4475 Jan 19 j 22:17	6°♉11'32	
	-4475 Apr 05 j 01:30	0°♊	
	-4475 May 26 j 22:46	0°♋	
	-4475 Jul 10 j 20:10	0°♌	
	-4475 Aug 21 j 03:07	0°♍	
desc. node	-4475 Aug 28 j 01:35	5°♍13'20	
	-4475 Sep 29 j 07:29	0°♎	
	-4475 Nov 06 j 13:01	0°♏	
evening set	-4475 Nov 19 j 06:11	10°♏00'12	
	-4475 Dec 14 j 20:11	0°♐	
conjunction	-4474 Jan 23 j 04:30	0°♑03'41	-1°08'11
minimum elong	-4474 Jan 23 j 04:32	0°♑03'45	1°08'23
	-4474 Jan 23 j 02:32	0°♑	
	-4474 Mar 05 j 01:20	0°♒	
max. Earth dist.	-4474 Mar 10 j 18:25	4°♒04'07	2.47057 AU

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

morning rise	-4474 Mar 26 j 03:06	14°♒52'20	
	-4474 Apr 17 j 03:25	0°♓	
	-4474 Jun 01 j 14:20	0°♈	
asc. node	-4474 Jul 14 j 02:25	26°♈35'35	
	-4474 Jul 19 j 17:30	0°♉	
	-4474 Sep 10 j 06:42	0°♊	
	-4474 Nov 27 j 23:30	0°♋	
retrograde	-4474 Dec 08 j 15:41	0°♋40'45	
	-4474 Dec 18 j 23:23	30°℞♊	
opposition	-4473 Jan 15 j 10:17	22°♊11'21	5°02'49
greatest brilliancy	-4473 Jan 16 j 08:26	21°♊50'07	-1.6m
min. Earth dist.	-4473 Jan 21 j 03:11	20°♊00'25	0.61052 AU
direct	-4473 Feb 25 j 08:09	12°♊19'27	
	-4473 Apr 26 j 17:05	0°♋	
	-4473 Jun 17 j 01:03	0°♌	
desc. node	-4473 Jul 16 j 00:31	19°♌47'27	
	-4473 Jul 30 j 05:26	0°♍	
	-4473 Sep 08 j 05:03	0°♎	
	-4473 Oct 16 j 22:18	0°♏	
	-4473 Nov 24 j 15:49	0°♐	
	-4472 Jan 03 j 08:51	0°♑	
evening set	-4472 Jan 23 j 03:37	14°♑30'44	
	-4472 Feb 13 j 18:01	0°♒	
conjunction	-4472 Mar 19 j 23:19	24°♒27'45	-0°39'37
minimum elong	-4472 Mar 20 j 01:06	24°♒30'47	0°39'43
	-4472 Mar 28 j 03:08	0°♓	
max. Earth dist.	-4472 Apr 15 j 19:49	12°♓31'09	2.58662 AU
morning rise	-4472 May 11 j 10:31	29°♓20'10	
	-4472 May 12 j 11:03	0°♈	
asc. node	-4472 May 30 j 23:13	11°♈56'08	
	-4472 Jun 28 j 10:22	0°♉	
	-4472 Aug 15 j 21:53	0°♊	
	-4472 Oct 05 j 18:54	0°♋	
	-4472 Dec 03 j 18:28	0°♌	
retrograde	-4471 Jan 25 j 10:00	13°♌04'59	
opposition	-4471 Mar 01 j 00:41	6°♌05'56	4°38'43
greatest brilliancy	-4471 Mar 02 j 11:56	5°♌35'28	-2.1m
min. Earth dist.	-4471 Mar 09 j 12:08	3°♌10'49	0.49705 AU
	-4471 Mar 20 j 03:33	30°℞♋	
direct	-4471 Apr 08 j 05:48	27°♋32'14	
	-4471 Apr 27 j 16:55	0°♌	
desc. node	-4471 Jun 01 j 23:58	13°♌54'00	
	-4471 Jun 29 j 22:12	0°♍	
	-4471 Aug 12 j 23:55	0°♎	
	-4471 Sep 22 j 16:56	0°♏	
	-4471 Nov 01 j 19:56	0°♐	
	-4471 Dec 12 j 16:42	0°♑	
	-4470 Jan 24 j 01:23	0°♒	
	-4470 Mar 09 j 04:35	0°♓	
evening set	-4470 Mar 13 j 15:18	2°♓57'33	
asc. node	-4470 Apr 17 j 20:35	26°♓04'15	
	-4470 Apr 23 j 22:07	0°♈	
conjunction	-4470 May 03 j 00:11	5°♈52'03	0°08'37
minimum elong	-4470 May 02 j 23:50	5°♈51'30	0°08'37
behind sun begin	-4470 May 02 j 06:42	5°♈23'54	
behind sun end	-4470 May 03 j 16:58	6°♈19'05	
max. Earth dist.	-4470 May 12 j 03:41	11°♈45'03	2.65486 AU
	-4470 Jun 09 j 16:43	0°♉	
morning rise	-4470 Jun 19 j 06:53	6°♉06'19	
	-4470 Jul 26 j 21:27	0°♊	
	-4470 Sep 12 j 03:56	0°♋	
	-4470 Oct 29 j 17:56	0°♌	
	-4470 Dec 17 j 21:09	0°♍	
	-4469 Feb 11 j 18:20	0°♎	
retrograde	-4469 Apr 06 j 02:54	14°♎13'21	
desc. node	-4469 Apr 20 j 01:31	13°♎01'01	
opposition	-4469 May 06 j 16:11	9°♎07'17	-1°14'24
greatest brilliancy	-4469 May 06 j 19:04	9°♎05'19	-2.9m
min. Earth dist.	-4469 May 10 j 00:43	8°♎12'41	0.38505 AU
direct	-4469 Jun 07 j 01:53	3°♎38'28	
	-4469 Aug 18 j 18:50	0°♏	
	-4469 Oct 05 j 05:45	0°♐	
	-4469 Nov 18 j 22:58	0°♑	
	-4468 Jan 02 j 18:50	0°♒	
	-4468 Feb 17 j 13:17	0°♓	
asc. node	-4468 Mar 04 j 17:24	10°♓26'28	
	-4468 Apr 04 j 06:33	0°♈	
evening set	-4468 Apr 23 j 06:02	12°♈05'02	
	-4468 May 21 j 10:05	0°♉	
max. Earth dist.	-4468 Jun 04 j 04:15	8°♉46'03	2.66921 AU
conjunction	-4468 Jun 09 j 12:38	12°♉11'05	0°49'12
minimum elong	-4468 Jun 09 j 11:20	12°♉09'01	0°49'19
	-4468 Jul 07 j 06:37	0°♊	
morning rise	-4468 Jul 24 j 21:07	11°♊24'19	
	-4468 Aug 22 j 06:00	0°♋	
	-4468 Oct 06 j 02:24	0°♌	
	-4468 Nov 18 j 22:15	0°♍	
	-4467 Jan 01 j 01:38	0°♎	
	-4467 Feb 13 j 07:16	0°♏	
desc. node	-4467 Mar 07 j 03:29	14°♏45'32	
	-4467 Mar 30 j 20:36	0°♐	
	-4467 Jun 05 j 04:18	0°♑	
retrograde	-4467 Jun 18 j 07:01	1°♑11'46	
	-4467 Jul 01 j 03:46	30°℞♐	
min. Earth dist.	-4467 Jul 15 j 04:09	26°♐25'37	0.42442 AU
greatest brilliancy	-4467 Jul 21 j 03:32	24°♐31'40	-2.6m
opposition	-4467 Jul 22 j 17:41	24°♐00'59	-6°25'11
direct	-4467 Aug 23 j 02:07	18°♐04'39	
	-4467 Oct 09 j 16:22	0°♑	
	-4467 Dec 06 j 07:31	0°♒	
asc. node	-4466 Jan 20 j 15:28	26°♒54'44	
	-4466 Jan 25 j 17:41	0°♓	
	-4466 Mar 15 j 17:07	0°♈	
	-4466 May 02 j 22:00	0°♉	
evening set	-4466 May 31 j 17:26	18°♉14'43	
	-4466 Jun 19 j 00:23	0°♊	
max. Earth dist.	-4466 Jun 28 j 14:14	6°♊13'03	2.62970 AU
conjunction	-4466 Jul 17 j 12:57	18°♊39'36	1°10'21
minimum elong	-4466 Jul 17 j 12:30	18°♊38'51	1°10'34
	-4466 Aug 03 j 13:02	0°♋	
morning rise	-4466 Sep 02 j 01:52	20°♋07'29	
	-4466 Sep 16 j 06:35	0°♌	
	-4466 Oct 28 j 07:45	0°♍	
	-4466 Dec 08 j 00:53	0°♎	
	-4465 Jan 16 j 23:27	0°♏	
desc. node	-4465 Jan 23 j 02:10	4°♏36'22	
	-4465 Feb 25 j 23:26	0°♐	
	-4465 Apr 08 j 09:31	0°♑	
	-4465 May 24 j 07:26	0°♒	
retrograde	-4465 Aug 07 j 09:24	27°♒38'04	
min. Earth dist.	-4465 Sep 08 j 08:03	20°♒43'42	0.54860 AU
greatest brilliancy	-4465 Sep 14 j 09:04	18°♒24'12	-1.9m
opposition	-4465 Sep 15 j 03:57	18°♒06'02	-3°31'16
direct	-4465 Oct 20 j 18:45	10°♒06'55	
asc. node	-4465 Dec 08 j 15:45	21°♒51'55	
	-4465 Dec 26 j 23:43	0°♓	
	-4464 Feb 21 j 12:27	0°♈	
	-4464 Apr 12 j 08:35	0°♉	
	-4464 May 30 j 10:21	0°♊	
evening set	-4464 Jul 09 j 13:28	26°♊17'32	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4464 Jul 15 j 01:45	0°♋	
max. Earth dist.	-4464 Jul 26 j 23:46	8°♋06'15	2.54053 AU
conjunction	-4464 Aug 27 j 22:16	0°♌24'02	1°00'01
minimum elong	-4464 Aug 27 j 23:51	0°♌26'50	1°00'12
	-4464 Aug 27 j 08:45	0°♌	
	-4464 Oct 07 j 14:27	0°♍	
morning rise	-4464 Oct 19 j 06:40	8°♍43'31	
	-4464 Nov 16 j 07:07	0°♎	
desc. node	-4464 Dec 10 j 00:53	18°♎17'51	
	-4464 Dec 25 j 03:09	0°♏	
	-4463 Feb 01 j 22:02	0°♐	
	-4463 Mar 13 j 14:15	0°♑	
	-4463 Apr 24 j 08:16	0°♒	
	-4463 Jun 09 j 04:23	0°♓	
	-4463 Aug 06 j 12:46	0°♈	
retrograde	-4463 Sep 13 j 21:14	8°♈09'51	
	-4463 Oct 19 j 10:37	30°℞♓	
min. Earth dist.	-4463 Oct 20 j 14:10	29°♓32'32	0.63955 AU
opposition	-4463 Oct 23 j 21:57	28°♓12'30	-0°04'13
greatest brilliancy	-4463 Oct 23 j 21:51	28°♓12'36	-1.5m
asc. node	-4463 Oct 25 j 16:55	27°♓29'32	
direct	-4463 Dec 01 j 17:28	19°♓00'26	
	-4462 Jan 18 j 14:00	0°♈	
	-4462 Mar 20 j 19:15	0°♉	
	-4462 May 10 j 14:20	0°♊	
	-4462 Jun 26 j 02:07	0°♋	
	-4462 Aug 08 j 10:44	0°♌	
evening set	-4462 Aug 25 j 01:03	11°♌58'47	
max. Earth dist.	-4462 Sep 13 j 10:54	26°♌19'03	2.41868 AU
	-4462 Sep 18 j 08:55	0°♍	
conjunction	-4462 Oct 20 j 16:26	24°♍38'58	0°05'15
minimum elong	-4462 Oct 20 j 16:51	24°♍39'45	0°05'18
behind sun begin	-4462 Oct 19 j 16:25	23°♍52'34	
behind sun end	-4462 Oct 21 j 17:17	25°♍26'59	
desc. node	-4462 Oct 27 j 22:45	0°♎16'40	
	-4462 Oct 27 j 14:10	0°♎	
	-4462 Dec 04 j 22:21	0°♏	
morning rise	-4462 Dec 23 j 21:23	14°♏52'40	
	-4461 Jan 12 j 06:31	0°♐	
	-4461 Feb 20 j 11:35	0°♑	
	-4461 Apr 02 j 09:59	0°♒	
	-4461 May 15 j 22:50	0°♓	
	-4461 Jul 02 j 11:46	0°♈	
	-4461 Aug 28 j 18:29	0°♉	
asc. node	-4461 Sep 12 j 17:46	5°♉48'23	
retrograde	-4461 Oct 18 j 17:44	12°♉42'44	
opposition	-4461 Nov 27 j 13:57	3°♉05'09	2°40'17
greatest brilliancy	-4461 Nov 27 j 13:32	3°♉05'34	-1.3m
min. Earth dist.	-4461 Nov 28 j 00:16	2°♉54'50	0.67148 AU
	-4461 Dec 05 j 10:34	30°℞♈	
direct	-4460 Jan 07 j 06:41	23°♈14'27	
	-4460 Feb 12 j 12:04	0°♉	
	-4460 Apr 16 j 07:18	0°♊	
	-4460 Jun 04 j 13:19	0°♋	
	-4460 Jul 18 j 17:37	0°♌	
	-4460 Aug 28 j 19:18	0°♍	
desc. node	-4460 Sep 13 j 19:23	12°♍08'19	
	-4460 Oct 06 j 22:14	0°♎	
evening set	-4460 Oct 23 j 04:10	12°♎42'57	
	-4460 Nov 14 j 03:04	0°♏	
	-4460 Dec 22 j 09:09	0°♐	
conjunction	-4460 Dec 27 j 11:08	3°♐56'44	-1°01'22
minimum elong	-4460 Dec 27 j 08:34	3°♐51'45	1°01'32
	-4459 Jan 30 j 13:34	0°♑	
max. Earth dist.	-4459 Feb 13 j 19:57	10°♑38'24	2.41835 AU
morning rise	-4459 Mar 03 j 09:26	23°♑29'54	
	-4459 Mar 12 j 10:03	0°♒	
	-4459 Apr 24 j 11:33	0°♓	
	-4459 Jun 09 j 03:44	0°♈	
	-4459 Jul 28 j 06:10	0°♉	
asc. node	-4459 Jul 30 j 17:51	1°♉26'38	
	-4459 Sep 22 j 23:08	0°♊	
retrograde	-4459 Nov 23 j 00:45	16°♊44'41	
opposition	-4459 Dec 31 j 14:48	7°♊50'55	4°35'45
greatest brilliancy	-4458 Jan 01 j 04:59	7°♊37'05	-1.4m
min. Earth dist.	-4458 Jan 04 j 20:36	6°♊11'41	0.64004 AU
	-4458 Jan 23 j 16:39	30°℞♉	
direct	-4458 Feb 10 j 19:39	27°♉51'04	
	-4458 Mar 01 j 22:48	0°♊	
	-4458 May 10 j 08:35	0°♋	
	-4458 Jun 26 j 18:56	0°♌	
desc. node	-4458 Aug 01 j 17:11	25°♌25'42	
	-4458 Aug 07 j 22:14	0°♍	
	-4458 Sep 16 j 11:22	0°♎	
	-4458 Oct 24 j 22:06	0°♏	
	-4458 Dec 02 j 10:02	0°♐	
evening set	-4458 Dec 30 j 11:59	21°♐27'01	
	-4457 Jan 10 j 21:30	0°♑	
	-4457 Feb 21 j 01:08	0°♒	
conjunction	-4457 Feb 28 j 18:32	5°♒28'22	-0°55'44
minimum elong	-4457 Feb 28 j 20:38	5°♒32'06	0°55'54
max. Earth dist.	-4457 Apr 04 j 10:29	29°♒26'54	2.54607 AU
	-4457 Apr 05 j 06:01	0°♓	
morning rise	-4457 Apr 25 j 10:49	13°♓32'49	
	-4457 May 20 j 12:53	0°♈	
asc. node	-4457 Jun 17 j 16:17	18°♈01'02	
	-4457 Jul 06 j 18:47	0°♉	
	-4457 Aug 25 j 06:24	0°♊	
	-4457 Oct 18 j 11:20	0°♋	
retrograde	-4456 Jan 05 j 11:35	25°♋19'23	
opposition	-4456 Feb 10 j 13:40	17°♋39'08	5°10'36
greatest brilliancy	-4456 Feb 11 j 23:01	17°♋08'43	-1.9m
min. Earth dist.	-4456 Feb 18 j 07:28	14°♋50'16	0.54685 AU
direct	-4456 Mar 21 j 06:46	8°♋21'32	
	-4456 May 26 j 04:47	0°♌	
desc. node	-4456 Jun 18 j 17:08	13°♌56'45	
	-4456 Jul 12 j 22:47	0°♍	
	-4456 Aug 23 j 12:21	0°♎	
	-4456 Oct 02 j 02:06	0°♏	
	-4456 Nov 10 j 10:57	0°♐	
	-4456 Dec 20 j 17:22	0°♑	
	-4455 Jan 31 j 14:12	0°♒	
evening set	-4455 Feb 23 j 10:57	15°♒50'14	
	-4455 Mar 16 j 08:28	0°♓	
conjunction	-4455 Apr 16 j 20:57	20°♓53'10	-0°10'07
minimum elong	-4455 Apr 16 j 21:23	20°♓53'54	0°10'09
behind sun begin	-4455 Apr 16 j 05:09	20°♓27'20	
behind sun end	-4455 Apr 17 j 13:38	21°♓20'28	
	-4455 Apr 30 j 20:34	0°♈	
max. Earth dist.	-4455 May 02 j 12:45	1°♈05'08	2.63453 AU
asc. node	-4455 May 04 j 12:53	2°♈23'05	
morning rise	-4455 Jun 04 j 17:22	22°♈25'14	
	-4455 Jun 16 j 15:03	0°♉	
	-4455 Aug 03 j 03:56	0°♊	
	-4455 Sep 20 j 09:07	0°♋	
	-4455 Nov 09 j 05:14	0°♌	
	-4454 Jan 04 j 01:52	0°♍	
retrograde	-4454 Mar 06 j 08:22	17°♍20'32	
opposition	-4454 Apr 07 j 08:09	11°♍36'35	1°58'45

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

greatest brilliancy	-4454 Apr 07 j 23:25	11°♍25'03	-2.6m
min. Earth dist.	-4454 Apr 14 j 09:52	9°♍29'10	0.41952 AU
desc. node	-4454 May 06 j 17:44	5°♍02'34	
direct	-4454 May 11 j 15:53	4°♍52'22	
	-4454 Jul 20 j 07:01	0°♎	
	-4454 Sep 04 j 10:25	0°♏	
	-4454 Oct 17 j 02:42	0°♐	
	-4454 Nov 28 j 14:58	0°♑	
	-4453 Jan 11 j 03:28	0°♒	
	-4453 Feb 25 j 02:17	0°♓	
asc. node	-4453 Mar 22 j 09:53	16°♓30'43	
evening set	-4453 Apr 08 j 16:53	27°♓40'20	
	-4453 Apr 12 j 07:50	0°♈	
conjunction	-4453 May 26 j 20:14	28°♈27'20	0°35'12
minimum elong	-4453 May 26 j 19:06	28°♈25'31	0°35'16
max. Earth dist.	-4453 May 26 j 20:52	28°♈28'20	2.67024 AU
	-4453 May 29 j 06:22	0°♉	
morning rise	-4453 Jul 11 j 14:19	27°♉41'40	
	-4453 Jul 15 j 04:29	0°♊	
	-4453 Aug 30 j 12:55	0°♋	
	-4453 Oct 15 j 03:52	0°♌	
	-4453 Nov 29 j 06:53	0°♍	
	-4452 Jan 13 j 13:21	0°♎	
	-4452 Feb 29 j 21:03	0°♏	
desc. node	-4452 Mar 23 j 19:40	13°♏03'49	
	-4452 May 03 j 22:11	0°♐	
retrograde	-4452 May 23 j 10:24	2°♐28'47	
	-4452 Jun 12 j 00:39	30°℞♏	
min. Earth dist.	-4452 Jun 19 j 12:52	28°♏02'24	0.38827 AU
greatest brilliancy	-4452 Jun 23 j 09:06	26°♏57'32	-2.8m
opposition	-4452 Jun 24 j 09:52	26°♏40'02	-5°51'21
direct	-4452 Jul 24 j 08:27	21°♏29'56	
	-4452 Sep 01 j 03:09	0°♐	
	-4452 Oct 29 j 09:24	0°♑	
	-4452 Dec 17 j 12:29	0°♒	
	-4451 Feb 03 j 09:31	0°♓	
asc. node	-4451 Feb 06 j 07:21	1°♓49'35	
	-4451 Mar 23 j 05:39	0°♈	
	-4451 May 09 j 22:04	0°♉	
evening set	-4451 May 16 j 20:15	4°♉23'06	
max. Earth dist.	-4451 Jun 18 j 22:43	25°♉31'50	2.65164 AU
	-4451 Jun 25 j 20:52	0°♊	
conjunction	-4451 Jul 02 j 12:10	4°♊18'13	1°05'08
minimum elong	-4451 Jul 02 j 11:11	4°♊16'37	1°05'18
	-4451 Aug 10 j 12:28	0°♋	
morning rise	-4451 Aug 17 j 03:29	4°♋26'22	
	-4451 Sep 23 j 14:37	0°♌	
	-4451 Nov 05 j 04:50	0°♍	
	-4451 Dec 16 j 14:30	0°♎	
	-4450 Jan 26 j 08:19	0°♏	
desc. node	-4450 Feb 08 j 21:12	9°♏57'57	
	-4450 Mar 08 j 09:26	0°♐	
	-4450 Apr 20 j 18:55	0°♑	
	-4450 Jun 13 j 20:18	0°♒	
retrograde	-4450 Jul 20 j 22:13	8°♒31'05	
min. Earth dist.	-4450 Aug 19 j 16:54	2°♒27'49	0.50052 AU
greatest brilliancy	-4450 Aug 26 j 06:39	0°♒02'58	-2.1m
	-4450 Aug 26 j 09:52	30°℞♑	
opposition	-4450 Aug 27 j 12:42	29°♑35'18	-4°55'28
direct	-4450 Sep 30 j 12:14	22°♑18'19	
	-4450 Nov 07 j 09:12	0°♒	
asc. node	-4450 Dec 25 j 06:08	21°♒57'55	
	-4449 Jan 09 j 04:18	0°♓	
	-4449 Mar 02 j 09:02	0°♈	
	-4449 Apr 20 j 21:15	0°♉	
	-4449 Jun 07 j 11:32	0°♊	
evening set	-4449 Jun 24 j 15:28	11°♊08'29	
max. Earth dist.	-4449 Jul 15 j 13:44	24°♊59'30	2.58099 AU
	-4449 Jul 23 j 00:42	0°♋	
conjunction	-4449 Aug 11 j 13:06	13°♋18'18	1°08'42
minimum elong	-4449 Aug 11 j 13:52	13°♋19'37	1°08'55
	-4449 Sep 04 j 10:59	0°♌	
morning rise	-4449 Sep 29 j 20:35	18°♌12'34	
	-4449 Oct 15 j 23:07	0°♍	
	-4449 Nov 24 j 23:51	0°♎	
desc. node	-4449 Dec 27 j 19:19	25°♎06'19	
	-4448 Jan 03 j 04:02	0°♏	
	-4448 Feb 11 j 06:52	0°♐	
	-4448 Mar 22 j 08:46	0°♑	
	-4448 May 03 j 21:47	0°♒	
	-4448 Jun 21 j 09:34	0°♓	
retrograde	-4448 Aug 30 j 16:43	23°♓40'45	
min. Earth dist.	-4448 Oct 04 j 16:22	15°♓39'11	0.61019 AU
opposition	-4448 Oct 09 j 10:38	13°♓45'28	-1°20'07
greatest brilliancy	-4448 Oct 09 j 05:38	13°♓50'27	-1.6m
asc. node	-4448 Nov 11 j 07:06	5°♓06'10	
direct	-4448 Nov 16 j 04:10	4°♓56'59	
	-4447 Feb 02 j 21:36	0°♈	
	-4447 Mar 29 j 20:44	0°♉	
	-4447 May 18 j 06:25	0°♊	
	-4447 Jul 03 j 07:51	0°♋	
evening set	-4447 Aug 05 j 18:11	23°♋00'40	
	-4447 Aug 15 j 14:50	0°♌	
max. Earth dist.	-4447 Aug 20 j 20:47	3°♌45'24	2.46742 AU
	-4447 Sep 25 j 15:07	0°♍	
conjunction	-4447 Sep 27 j 21:02	1°♍40'59	0°31'56
minimum elong	-4447 Sep 27 j 22:50	1°♍44'22	0°32'00
	-4447 Nov 04 j 00:04	0°♎	
desc. node	-4447 Nov 13 j 16:30	7°♎30'34	
morning rise	-4447 Nov 26 j 01:20	17°♎08'37	
	-4447 Dec 12 j 11:57	0°♏	
	-4446 Jan 19 j 23:09	0°♐	
	-4446 Feb 28 j 06:53	0°♑	
	-4446 Apr 10 j 09:22	0°♒	
	-4446 May 24 j 10:08	0°♓	
	-4446 Jul 12 j 18:33	0°♈	
asc. node	-4446 Sep 29 j 09:13	29°♈32'48	
retrograde	-4446 Oct 05 j 06:50	29°♈46'07	
min. Earth dist.	-4446 Nov 13 j 06:55	20°♈22'51	0.66631 AU
opposition	-4446 Nov 14 j 08:01	19°♈57'39	1°41'57
greatest brilliancy	-4446 Nov 14 j 05:35	20°♈00'05	-1.4m
direct	-4446 Dec 24 j 10:39	10°♈18'48	
	-4445 Mar 02 j 06:40	0°♉	
	-4445 Apr 26 j 18:47	0°♊	
	-4445 Jun 13 j 13:55	0°♋	
	-4445 Jul 27 j 08:02	0°♌	
	-4445 Sep 06 j 07:09	0°♍	
evening set	-4445 Sep 28 j 19:25	17°♍08'09	
desc. node	-4445 Oct 01 j 13:41	19°♍15'46	
	-4445 Oct 15 j 10:06	0°♎	
	-4445 Nov 22 j 15:17	0°♏	
conjunction	-4445 Nov 30 j 15:59	6°♏19'27	-0°40'55
minimum elong	-4445 Nov 30 j 12:51	6°♏13'17	0°41'00
max. Earth dist.	-4445 Dec 21 j 07:16	22°♏31'41	2.37839 AU
	-4445 Dec 30 j 21:06	0°♐	
morning rise	-4444 Feb 06 j 14:43	28°♐56'09	
	-4444 Feb 08 j 00:38	0°♑	
	-4444 Mar 19 j 20:16	0°♒	
	-4444 May 01 j 23:25	0°♓	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4444 Jun 17 j 01:44	0°♈	
	-4444 Aug 06 j 19:32	0°♉	
asc. node	-4444 Aug 16 j 09:38	5°♉10'05	
	-4444 Oct 14 j 12:14	0°♊	
retrograde	-4444 Nov 08 j 10:54	3°♊27'50	
	-4444 Dec 01 j 14:21	30°℞♉	
opposition	-4444 Dec 17 j 15:53	24°♉14'16	3°57'38
greatest brilliancy	-4444 Dec 17 j 23:03	24°♉07'11	-1.4m
min. Earth dist.	-4444 Dec 20 j 09:58	23°♉09'00	0.65991 AU
direct	-4443 Jan 27 j 20:22	14°♉13'59	
	-4443 Mar 27 j 00:38	0°♊	
	-4443 May 20 j 21:41	0°♋	
	-4443 Jul 05 j 12:50	0°♌	
	-4443 Aug 16 j 02:26	0°♍	
desc. node	-4443 Aug 18 j 11:00	1°♍45'40	
	-4443 Sep 24 j 09:55	0°♎	
	-4443 Nov 01 j 17:03	0°♏	
evening set	-4443 Dec 04 j 12:30	25°♏42'03	
	-4443 Dec 10 j 01:20	0°♐	
	-4442 Jan 18 j 08:39	0°♑	
conjunction	-4442 Feb 06 j 03:20	13°♑55'40	-1°06'16
minimum elong	-4442 Feb 06 j 04:35	13°♑57'57	1°06'28
	-4442 Feb 28 j 07:54	0°♒	
max. Earth dist.	-4442 Mar 20 j 19:36	14°♒27'44	2.49865 AU
morning rise	-4442 Apr 06 j 17:33	26°♒08'16	
	-4442 Apr 12 j 09:40	0°♓	
	-4442 May 27 j 17:26	0°♈	
asc. node	-4442 Jul 04 j 07:56	23°♈47'04	
	-4442 Jul 14 j 10:20	0°♉	
	-4442 Sep 03 j 12:14	0°♊	
	-4442 Nov 04 j 05:50	0°♋	
retrograde	-4442 Dec 18 j 05:14	9°♋31'36	
opposition	-4441 Jan 24 j 11:06	1°♋18'01	5°11'28
greatest brilliancy	-4441 Jan 25 j 13:48	0°♋52'48	-1.6m
	-4441 Jan 27 j 21:37	30°℞♊	
min. Earth dist.	-4441 Jan 30 j 23:22	28°♊50'48	0.58999 AU
direct	-4441 Mar 06 j 01:53	21°♊34'37	
	-4441 Apr 14 j 03:32	0°♋	
	-4441 Jun 10 j 01:55	0°♌	
desc. node	-4441 Jul 06 j 09:24	17°♌22'11	
	-4441 Jul 24 j 08:11	0°♍	
	-4441 Sep 02 j 18:15	0°♎	
	-4441 Oct 11 j 17:15	0°♏	
	-4441 Nov 19 j 15:00	0°♐	
	-4441 Dec 29 j 11:44	0°♑	
evening set	-4440 Feb 04 j 11:19	26°♑47'49	
	-4440 Feb 08 j 23:51	0°♒	
	-4440 Mar 23 j 11:08	0°♓	
conjunction	-4440 Mar 30 j 13:00	4°♓45'41	-0°29'06
minimum elong	-4440 Mar 30 j 14:20	4°♓47'55	0°29'11
max. Earth dist.	-4440 Apr 22 j 05:27	19°♓49'03	2.60593 AU
	-4440 May 07 j 19:20	0°♈	
morning rise	-4440 May 20 j 12:48	8°♈13'58	
asc. node	-4440 May 21 j 05:36	8°♈41'02	
	-4440 Jun 23 j 15:46	0°♉	
	-4440 Aug 10 j 17:04	0°♊	
	-4440 Sep 29 j 08:54	0°♋	
	-4440 Nov 22 j 10:41	0°♌	
retrograde	-4439 Feb 07 j 17:20	24°♌42'31	
opposition	-4439 Mar 13 j 08:56	18°♌09'12	3°59'26
greatest brilliancy	-4439 Mar 14 j 16:55	17°♌42'35	-2.3m
min. Earth dist.	-4439 Mar 21 j 19:30	15°♌21'27	0.46833 AU
direct	-4439 Apr 19 j 10:19	10°♌08'33	
desc. node	-4439 May 23 j 11:04	17°♌16'12	
	-4439 Jun 19 j 05:01	0°♍	
	-4439 Aug 05 j 12:40	0°♎	
	-4439 Sep 16 j 08:26	0°♏	
	-4439 Oct 27 j 02:07	0°♐	
	-4439 Dec 07 j 09:14	0°♑	
	-4438 Jan 19 j 01:22	0°♒	
	-4438 Mar 04 j 10:06	0°♓	
evening set	-4438 Mar 23 j 10:45	12°♓32'57	
asc. node	-4438 Apr 08 j 01:38	22°♓44'10	
	-4438 Apr 19 j 06:50	0°♈	
conjunction	-4438 May 11 j 21:05	14°♈31'41	0°18'54
minimum elong	-4438 May 11 j 20:22	14°♈30'33	0°18'57
max. Earth dist.	-4438 May 17 j 15:02	18°♈12'29	2.66277 AU
	-4438 Jun 05 j 02:13	0°♉	
morning rise	-4438 Jun 27 j 11:23	14°♉15'45	
	-4438 Jul 22 j 03:52	0°♊	
	-4438 Sep 07 j 01:04	0°♋	
	-4438 Oct 23 j 18:50	0°♌	
	-4438 Dec 10 j 00:42	0°♍	
	-4437 Jan 28 j 19:32	0°♎	
	-4437 Apr 08 j 22:18	0°♏	
desc. node	-4437 Apr 10 j 12:54	0°♏16'50	
retrograde	-4437 Apr 24 j 00:28	1°♏25'43	
	-4437 May 09 j 03:09	30°℞♎	
opposition	-4437 May 24 j 12:55	26°♎21'38	-3°15'27
greatest brilliancy	-4437 May 24 j 11:44	26°♎22'25	-2.9m
min. Earth dist.	-4437 May 24 j 21:51	26°♎15'40	0.37738 AU
direct	-4437 Jun 23 j 21:56	21°♎16'17	
	-4437 Aug 01 j 10:04	0°♏	
	-4437 Sep 26 j 07:30	0°♐	
	-4437 Nov 12 j 05:55	0°♑	
	-4437 Dec 28 j 02:48	0°♒	
	-4436 Feb 12 j 11:07	0°♓	
asc. node	-4436 Feb 23 j 22:08	7°♓20'42	
	-4436 Mar 30 j 12:05	0°♈	
evening set	-4436 May 01 j 23:06	20°♈34'24	
	-4436 May 16 j 19:35	0°♉	
max. Earth dist.	-4436 Jun 09 j 14:03	15°♉08'53	2.66528 AU
conjunction	-4436 Jun 17 j 21:38	20°♉28'36	0°56'02
minimum elong	-4436 Jun 17 j 20:23	20°♉26'35	0°56'11
	-4436 Jul 02 j 16:42	0°♊	
morning rise	-4436 Aug 02 j 05:01	19°♊52'27	
	-4436 Aug 17 j 13:01	0°♋	
	-4436 Oct 01 j 02:19	0°♌	
	-4436 Nov 13 j 09:56	0°♍	
	-4436 Dec 25 j 19:22	0°♎	
	-4435 Feb 05 j 20:49	0°♏	
desc. node	-4435 Feb 25 j 13:22	13°♏53'01	
	-4435 Mar 21 j 00:30	0°♐	
	-4435 May 09 j 04:37	0°♑	
retrograde	-4435 Jun 30 j 23:12	16°♑02'18	
min. Earth dist.	-4435 Jul 28 j 17:34	10°♑50'53	0.45041 AU
greatest brilliancy	-4435 Aug 04 j 04:04	8°♑39'55	-2.4m
opposition	-4435 Aug 05 j 18:11	8°♑07'22	-6°05'00
direct	-4435 Sep 06 j 23:49	1°♑40'58	
	-4435 Nov 27 j 19:44	0°♒	
asc. node	-4434 Jan 10 j 21:19	24°♒49'32	
	-4434 Jan 19 j 16:27	0°♓	
	-4434 Mar 10 j 13:07	0°♈	
	-4434 Apr 28 j 03:37	0°♉	
evening set	-4434 Jun 09 j 08:21	26°♉44'02	
	-4434 Jun 14 j 10:01	0°♊	
max. Earth dist.	-4434 Jul 04 j 14:41	13°♊09'05	2.61453 AU
conjunction	-4434 Jul 26 j 09:38	27°♊36'38	1°11'17
minimum elong	-4434 Jul 26 j 09:35	27°♊36'32	1°11'29

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4434 Jul 29 j 23:02	0°♋	
morning rise	-4434 Sep 11 j 16:40	0°♌04'10	
	-4434 Sep 11 j 14:18	0°♌	
	-4434 Oct 23 j 10:40	0°♍	
	-4434 Dec 02 j 21:28	0°♎	
	-4433 Jan 11 j 12:21	0°♏	
desc. node	-4433 Jan 13 j 12:41	1°♏31'56	
	-4433 Feb 20 j 02:39	0°♐	
	-4433 Apr 01 j 20:57	0°♑	
	-4433 May 15 j 23:34	0°♒	
	-4433 Jul 11 j 04:43	0°♓	
retrograde	-4433 Aug 16 j 14:53	7°♓53'01	
min. Earth dist.	-4433 Sep 18 j 16:45	0°♓32'52	0.57269 AU
	-4433 Sep 20 j 02:37	30°℞♒	
opposition	-4433 Sep 24 j 19:57	28°♒09'00	-2°42'13
greatest brilliancy	-4433 Sep 24 j 06:54	28°♒21'45	-1.8m
direct	-4433 Oct 31 j 06:39	19°♒50'04	
asc. node	-4433 Nov 28 j 22:04	24°♒22'24	
	-4433 Dec 15 j 09:39	0°♓	
	-4432 Feb 15 j 03:32	0°♈	
	-4432 Apr 07 j 03:11	0°♉	
	-4432 May 25 j 15:06	0°♊	
	-4432 Jul 10 j 10:05	0°♋	
evening set	-4432 Jul 19 j 02:46	5°♋53'29	
max. Earth dist.	-4432 Aug 04 j 03:13	16°♋55'08	2.51575 AU
	-4432 Aug 22 j 17:36	0°♌	
conjunction	-4432 Sep 07 j 13:52	11°♌22'51	0°51'52
minimum elong	-4432 Sep 07 j 15:45	11°♌26'16	0°52'01
	-4432 Oct 02 j 21:44	0°♍	
morning rise	-4432 Nov 01 j 01:13	21°♍59'51	
	-4432 Nov 11 j 11:54	0°♎	
desc. node	-4432 Nov 30 j 10:38	14°♎38'18	
	-4432 Dec 20 j 04:54	0°♏	
	-4431 Jan 27 j 20:21	0°♐	
	-4431 Mar 08 j 08:16	0°♑	
	-4431 Apr 18 j 18:04	0°♒	
	-4431 Jun 02 j 15:52	0°♓	
	-4431 Jul 25 j 19:05	0°♈	
retrograde	-4431 Sep 21 j 19:06	16°♈29'29	
asc. node	-4431 Oct 15 j 23:09	12°♈32'13	
min. Earth dist.	-4431 Oct 29 j 08:51	7°♈34'30	0.65166 AU
opposition	-4431 Oct 31 j 21:05	6°♈33'59	0°36'51
greatest brilliancy	-4431 Oct 31 j 19:26	6°♈35'38	-1.5m
	-4431 Nov 19 j 09:52	30°℞♓	
direct	-4431 Dec 10 j 04:59	27°♓11'00	
	-4430 Jan 01 j 16:00	0°♈	
	-4430 Mar 14 j 05:08	0°♉	
	-4430 May 05 j 07:08	0°♊	
	-4430 Jun 21 j 04:54	0°♋	
	-4430 Aug 03 j 17:01	0°♌	
evening set	-4430 Sep 05 j 23:35	24°♌15'42	
	-4430 Sep 13 j 15:39	0°♍	
max. Earth dist.	-4430 Oct 03 j 19:34	15°♍18'24	2.39464 AU
desc. node	-4430 Oct 18 j 07:08	26°♍28'19	
	-4430 Oct 22 j 20:15	0°♎	
conjunction	-4430 Nov 03 j 20:58	9°♎22'55	-0°11'58
minimum elong	-4430 Nov 03 j 19:58	9°♎20'59	0°11'59
behind sun begin	-4430 Nov 03 j 01:35	8°♎45'02	
behind sun end	-4430 Nov 04 j 14:22	9°♎56'57	
	-4430 Nov 30 j 03:20	0°♏	
	-4429 Jan 07 j 10:17	0°♐	
morning rise	-4429 Jan 09 j 06:29	1°♐25'53	
	-4429 Feb 15 j 14:10	0°♑	
	-4429 Mar 28 j 10:24	0°♒	
	-4429 May 10 j 17:37	0°♓	
	-4429 Jun 26 j 13:06	0°♈	
	-4429 Aug 19 j 07:38	0°♉	
asc. node	-4429 Sep 03 j 00:30	6°♉49'30	
retrograde	-4429 Oct 26 j 12:41	20°♉31'19	
opposition	-4429 Dec 05 j 04:50	11°♉01'25	3°10'52
greatest brilliancy	-4429 Dec 05 j 06:35	10°♉59'40	-1.3m
min. Earth dist.	-4429 Dec 06 j 11:11	10°♉31'10	0.67016 AU
direct	-4428 Jan 15 j 03:29	1°♉05'53	
	-4428 Apr 09 j 08:51	0°♊	
	-4428 May 30 j 01:39	0°♋	
	-4428 Jul 13 j 16:49	0°♌	
	-4428 Aug 23 j 22:19	0°♍	
desc. node	-4428 Sep 04 j 04:59	8°♍30'45	
	-4428 Oct 02 j 02:36	0°♎	
evening set	-4428 Nov 07 j 08:56	28°♎27'42	
	-4428 Nov 09 j 07:47	0°♏	
	-4428 Dec 17 j 13:52	0°♐	
conjunction	-4427 Jan 11 j 20:24	19°♐27'55	-1°06'56
minimum elong	-4427 Jan 11 j 19:16	19°♐25'46	1°07'09
	-4427 Jan 25 j 18:28	0°♑	
max. Earth dist.	-4427 Mar 01 j 14:44	25°♑40'41	2.44715 AU
	-4427 Mar 07 j 14:56	0°♒	
morning rise	-4427 Mar 16 j 16:28	6°♒27'28	
	-4427 Apr 19 j 15:15	0°♓	
	-4427 Jun 04 j 02:36	0°♈	
asc. node	-4427 Jul 20 j 23:40	29°♈04'30	
	-4427 Jul 22 j 12:52	0°♉	
	-4427 Sep 14 j 08:39	0°♊	
retrograde	-4427 Dec 01 j 19:20	25°♊03'59	
opposition	-4426 Jan 08 j 23:37	16°♊23'07	4°52'37
greatest brilliancy	-4426 Jan 09 j 18:14	16°♊05'08	-1.5m
min. Earth dist.	-4426 Jan 14 j 01:25	14°♊25'34	0.62502 AU
direct	-4426 Feb 19 j 01:58	6°♊26'30	
	-4426 May 02 j 09:13	0°♋	
	-4426 Jun 20 j 19:19	0°♌	
desc. node	-4426 Jul 23 j 03:58	22°♌27'51	
	-4426 Aug 02 j 12:48	0°♍	
	-4426 Sep 11 j 08:09	0°♎	
	-4426 Oct 19 j 22:17	0°♏	
	-4426 Nov 27 j 12:29	0°♐	
	-4425 Jan 06 j 01:56	0°♑	
evening set	-4425 Jan 13 j 05:03	5°♑17'15	
	-4425 Feb 16 j 07:11	0°♒	
conjunction	-4425 Mar 12 j 13:18	17°♒00'14	-0°46'52
minimum elong	-4425 Mar 12 j 15:19	17°♒03'44	0°47'01
	-4425 Mar 31 j 12:59	0°♓	
max. Earth dist.	-4425 Apr 11 j 20:03	7°♓36'29	2.56942 AU
morning rise	-4425 May 05 j 08:48	23°♓11'42	
	-4425 May 15 j 19:06	0°♈	
asc. node	-4425 Jun 07 j 20:38	14°♈50'32	
	-4425 Jul 01 j 20:05	0°♉	
	-4425 Aug 19 j 15:55	0°♊	
	-4425 Oct 10 j 15:37	0°♋	
	-4425 Dec 15 j 12:28	0°♌	
retrograde	-4424 Jan 16 j 23:59	5°♌33'54	
	-4424 Feb 16 j 06:11	30°℞♋	
opposition	-4424 Feb 21 j 07:00	28°♋15'31	4°56'35
greatest brilliancy	-4424 Feb 22 j 18:16	27°♋44'12	-2.0m
min. Earth dist.	-4424 Feb 29 j 12:22	25°♋20'47	0.51993 AU
direct	-4424 Mar 31 j 06:19	19°♋19'27	
	-4424 May 13 j 12:50	0°♌	
desc. node	-4424 Jun 09 j 03:25	13°♌39'15	
	-4424 Jul 05 j 11:06	0°♍	
	-4424 Aug 17 j 05:47	0°♎	
	-4424 Sep 26 j 09:15	0°♏	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4424 Nov 05 j 02:43	0°♐	
	-4424 Dec 15 j 15:40	0°♑	
	-4423 Jan 26 j 17:31	0°♒	
evening set	-4423 Mar 06 j 00:39	26°♒14'05	
	-4423 Mar 11 j 15:19	0°♓	
asc. node	-4423 Apr 24 j 18:08	29°♓03'03	
conjunction	-4423 Apr 26 j 05:53	0°♈01'01	0°00'52
minimum elong	-4423 Apr 26 j 05:48	0°♈00'53	0°00'52
behind sun begin	-4423 Apr 25 j 09:28	29°♓27'56	
behind sun end	-4423 Apr 27 j 02:08	0°♈33'49	
	-4423 Apr 26 j 05:15	0°♈	
max. Earth dist.	-4423 May 08 j 07:32	7°♈49'03	2.64674 AU
	-4423 Jun 11 j 23:08	0°♉	
morning rise	-4423 Jun 13 j 03:44	0°♉45'30	
	-4423 Jul 29 j 06:51	0°♊	
	-4423 Sep 14 j 22:17	0°♋	
	-4423 Nov 02 j 08:30	0°♌	
	-4423 Dec 23 j 13:56	0°♍	
	-4422 Mar 03 j 05:11	0°♎	
retrograde	-4422 Mar 23 j 05:52	2°♎20'36	
	-4422 Apr 11 j 23:08	30°℞♍	
opposition	-4422 Apr 23 j 07:53	27°♍01'18	0°16'44
greatest brilliancy	-4422 Apr 23 j 09:47	26°♍59'57	-2.8m
desc. node	-4422 Apr 27 j 04:35	25°♍55'46	
min. Earth dist.	-4422 Apr 28 j 16:53	25°♍30'24	0.39769 AU
direct	-4422 May 25 j 23:11	21°♍01'53	
	-4422 Jul 03 j 12:26	0°♎	
	-4422 Aug 26 j 09:33	0°♏	
	-4422 Oct 10 j 03:22	0°♐	
	-4422 Nov 22 j 16:23	0°♑	
	-4421 Jan 05 j 19:53	0°♒	
	-4421 Feb 20 j 04:02	0°♓	
asc. node	-4421 Mar 12 j 15:14	13°♓17'24	
	-4421 Apr 07 j 15:05	0°♈	
evening set	-4421 Apr 17 j 16:37	6°♈26'00	
	-4421 May 24 j 16:04	0°♉	
max. Earth dist.	-4421 Jun 01 j 06:36	4°♉50'55	2.67071 AU
conjunction	-4421 Jun 04 j 07:13	6°♉46'44	0°43'39
minimum elong	-4421 Jun 04 j 05:58	6°♉44'43	0°43'46
	-4421 Jul 10 j 13:18	0°♊	
morning rise	-4421 Jul 19 j 18:37	5°♊56'51	
	-4421 Aug 25 j 16:55	0°♋	
	-4421 Oct 09 j 21:33	0°♌	
	-4421 Nov 23 j 06:10	0°♍	
	-4420 Jan 06 j 05:02	0°♎	
	-4420 Feb 19 j 18:25	0°♏	
desc. node	-4420 Mar 14 j 06:48	15°♏05'02	
	-4420 Apr 08 j 17:23	0°♐	
retrograde	-4420 Jun 07 j 15:01	19°♐30'46	
min. Earth dist.	-4420 Jul 04 j 06:03	14°♐58'39	0.40587 AU
greatest brilliancy	-4420 Jul 09 j 11:42	13°♐24'13	-2.7m
opposition	-4420 Jul 10 j 22:09	12°♐58'04	-6°24'22
direct	-4420 Aug 10 j 13:52	7°♐25'00	
	-4420 Oct 19 j 00:23	0°♑	
	-4420 Dec 10 j 17:20	0°♒	
asc. node	-4419 Jan 27 j 12:45	29°♒11'12	
	-4419 Jan 28 j 20:24	0°♓	
	-4419 Mar 18 j 06:32	0°♈	
	-4419 May 05 j 05:49	0°♉	
evening set	-4419 May 25 j 09:01	12°♉44'41	
	-4419 Jun 21 j 06:58	0°♊	
max. Earth dist.	-4419 Jun 24 j 14:17	2°♊08'19	2.64048 AU
conjunction	-4419 Jul 11 j 01:34	12°♊52'36	1°08'40
minimum elong	-4419 Jul 11 j 00:51	12°♊51'27	1°08'51
	-4419 Aug 05 j 21:35	0°♋	
morning rise	-4419 Aug 26 j 03:05	13°♋40'20	
	-4419 Sep 18 j 19:40	0°♌	
	-4419 Oct 31 j 03:03	0°♍	
	-4419 Dec 11 j 03:35	0°♎	
	-4418 Jan 20 j 10:06	0°♏	
desc. node	-4418 Jan 30 j 06:00	7°♏20'38	
	-4418 Mar 01 j 19:06	0°♐	
	-4418 Apr 12 j 20:18	0°♑	
	-4418 May 30 j 17:45	0°♒	
retrograde	-4418 Jul 31 j 03:14	20°♒07'32	
min. Earth dist.	-4418 Aug 31 j 02:29	13°♒35'42	0.52763 AU
greatest brilliancy	-4418 Sep 06 j 10:58	11°♒11'45	-2.0m
opposition	-4418 Sep 07 j 10:38	10°♒49'22	-4°07'58
direct	-4418 Oct 12 j 09:07	3°♒07'58	
asc. node	-4418 Dec 15 j 12:47	21°♒44'49	
	-4417 Jan 01 j 07:28	0°♓	
	-4417 Feb 24 j 16:09	0°♈	
	-4417 Apr 15 j 21:59	0°♉	
	-4417 Jun 02 j 19:20	0°♊	
evening set	-4417 Jul 03 j 15:22	20°♊06'02	
	-4417 Jul 18 j 10:45	0°♋	
max. Earth dist.	-4417 Jul 22 j 11:19	2°♋43'07	2.55941 AU
conjunction	-4417 Aug 21 j 06:26	23°♋15'02	1°04'31
minimum elong	-4417 Aug 21 j 07:41	23°♋17'12	1°04'42
	-4417 Aug 30 j 20:17	0°♌	
morning rise	-4417 Oct 11 j 03:03	29°♌55'23	
	-4417 Oct 11 j 05:32	0°♍	
	-4417 Nov 20 j 02:07	0°♎	
desc. node	-4417 Dec 18 j 04:33	21°♎35'29	
	-4417 Dec 29 j 01:45	0°♏	
	-4416 Feb 05 j 23:28	0°♐	
	-4416 Mar 16 j 18:35	0°♑	
	-4416 Apr 27 j 17:56	0°♒	
	-4416 Jun 13 j 08:18	0°♓	
	-4416 Aug 18 j 17:57	0°♈	
retrograde	-4416 Sep 07 j 22:44	2°♈31'58	
	-4416 Sep 27 j 00:59	30°℞♓	
min. Earth dist.	-4416 Oct 13 j 21:56	24°♓09'43	0.62760 AU
opposition	-4416 Oct 17 j 20:51	22°♓34'46	-0°35'18
greatest brilliancy	-4416 Oct 17 j 19:04	22°♓36'33	-1.6m
asc. node	-4416 Nov 01 j 14:06	17°♓12'11	
direct	-4416 Nov 25 j 05:15	13°♓32'26	
	-4415 Jan 24 j 23:34	0°♈	
	-4415 Mar 24 j 00:57	0°♉	
	-4415 May 13 j 05:49	0°♊	
	-4415 Jun 28 j 14:16	0°♋	
	-4415 Aug 10 j 23:33	0°♌	
evening set	-4415 Aug 16 j 10:37	3°♌54'23	
max. Earth dist.	-4415 Sep 01 j 21:11	15°♌50'13	2.44027 AU
	-4415 Sep 20 j 23:39	0°♍	
conjunction	-4415 Oct 10 j 09:44	14°♍41'39	0°17'29
minimum elong	-4415 Oct 10 j 10:56	14°♍43'55	0°17'31
	-4415 Oct 30 j 07:07	0°♎	
desc. node	-4415 Nov 04 j 02:59	3°♎44'41	
	-4415 Dec 07 j 17:03	0°♏	
morning rise	-4415 Dec 11 j 10:40	2°♏55'45	
	-4414 Jan 15 j 01:58	0°♐	
	-4414 Feb 23 j 07:06	0°♑	
	-4414 Apr 05 j 05:39	0°♒	
	-4414 May 18 j 20:51	0°♓	
	-4414 Jul 05 j 22:16	0°♈	
	-4414 Sep 04 j 23:44	0°♉	
asc. node	-4414 Sep 19 j 14:40	4°♉30'50	
retrograde	-4414 Oct 13 j 00:39	7°♉40'39	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4414 Nov 16 j 20:48	30°℞♈	
opposition	-4414 Nov 21 j 23:40	27°♈57'51	2°16'46
greatest brilliancy	-4414 Nov 21 j 22:03	27°♈59'28	-1.3m
min. Earth dist.	-4414 Nov 21 j 18:30	28°♈03'02	0.67049 AU
direct	-4413 Jan 01 j 10:40	18°♈11'46	
	-4413 Feb 20 j 07:16	0°♉	
	-4413 Apr 20 j 18:14	0°♊	
	-4413 Jun 08 j 09:48	0°♋	
	-4413 Jul 22 j 11:04	0°♌	
	-4413 Sep 01 j 12:40	0°♍	
desc. node	-4413 Sep 21 j 23:32	15°♍32'09	
	-4413 Oct 10 j 16:16	0°♎	
evening set	-4413 Oct 12 j 19:23	1°♎39'34	
	-4413 Nov 17 j 21:28	0°♏	
conjunction	-4413 Dec 16 j 07:42	22°♏20'52	-0°53'59
minimum elong	-4413 Dec 16 j 04:29	22°♏14'35	0°54'07
	-4413 Dec 26 j 02:57	0°♐	
max. Earth dist.	-4412 Jan 28 j 13:52	25°♐43'01	2.39707 AU
	-4412 Feb 03 j 06:00	0°♑	
morning rise	-4412 Feb 21 j 13:12	13°♑38'31	
	-4412 Mar 15 j 00:45	0°♒	
	-4412 Apr 27 j 01:03	0°♓	
	-4412 Jun 11 j 19:16	0°♈	
	-4412 Jul 31 j 09:37	0°♉	
asc. node	-4412 Aug 06 j 14:43	3°♉31'10	
	-4412 Sep 28 j 23:36	0°♊	
retrograde	-4412 Nov 16 j 16:52	11°♊28'12	
opposition	-4412 Dec 25 j 14:27	2°♊25'10	4°20'44
greatest brilliancy	-4412 Dec 26 j 01:25	2°♊14'25	-1.4m
min. Earth dist.	-4412 Dec 29 j 04:45	1°♊00'33	0.65022 AU
	-4412 Dec 31 j 19:14	30°℞♉	
direct	-4411 Feb 04 j 20:17	22°♉24'12	
	-4411 Mar 14 j 20:22	0°♊	
	-4411 May 14 j 09:54	0°♋	
	-4411 Jun 30 j 01:16	0°♌	
desc. node	-4411 Aug 08 j 20:43	28°♌26'18	
	-4411 Aug 10 j 23:18	0°♍	
	-4411 Sep 19 j 10:23	0°♎	
	-4411 Oct 27 j 19:33	0°♏	
	-4411 Dec 05 j 05:15	0°♐	
evening set	-4411 Dec 19 j 10:29	10°♐57'12	
	-4410 Jan 13 j 13:52	0°♑	
conjunction	-4410 Feb 19 j 07:06	26°♑55'14	-1°01'08
minimum elong	-4410 Feb 19 j 09:02	26°♑58'43	1°01'18
	-4410 Feb 23 j 14:20	0°♒	
max. Earth dist.	-4410 Mar 29 j 11:36	23°♒43'20	2.52555 AU
	-4410 Apr 07 j 16:15	0°♓	
morning rise	-4410 Apr 17 j 15:35	6°♓44'07	
	-4410 May 22 j 22:01	0°♈	
asc. node	-4410 Jun 24 j 13:46	20°♈49'54	
	-4410 Jul 09 j 06:48	0°♉	
	-4410 Aug 28 j 07:05	0°♊	
	-4410 Oct 23 j 16:06	0°♋	
retrograde	-4410 Dec 28 j 08:17	18°♋47'00	
opposition	-4409 Feb 02 j 23:35	10°♋51'02	5°13'25
greatest brilliancy	-4409 Feb 04 j 06:21	10°♋22'29	-1.8m
min. Earth dist.	-4409 Feb 10 j 05:07	8°♋10'21	0.56722 AU
direct	-4409 Mar 15 j 04:14	1°♋19'46	
	-4409 Jun 02 j 02:49	0°♌	
desc. node	-4409 Jun 26 j 20:28	15°♌30'13	
	-4409 Jul 18 j 02:22	0°♍	
	-4409 Aug 28 j 02:46	0°♎	
	-4409 Oct 06 j 09:23	0°♏	
	-4409 Nov 14 j 12:13	0°♐	
	-4409 Dec 24 j 12:58	0°♑	
	-4408 Feb 04 j 04:33	0°♒	
evening set	-4408 Feb 16 j 02:01	8°♒19'33	
	-4408 Mar 18 j 18:15	0°♓	
conjunction	-4408 Apr 09 j 14:46	14°♓34'53	-0°18'09
minimum elong	-4408 Apr 09 j 15:35	14°♓36'15	0°18'12
max. Earth dist.	-4408 Apr 28 j 09:12	26°♓53'57	2.62274 AU
	-4408 May 03 j 03:31	0°♈	
asc. node	-4408 May 11 j 10:41	5°♈22'48	
morning rise	-4408 May 29 j 08:24	16°♈53'49	
	-4408 Jun 18 j 21:55	0°♉	
	-4408 Aug 05 j 15:08	0°♊	
	-4408 Sep 23 j 09:10	0°♋	
	-4408 Nov 13 j 15:22	0°♌	
	-4407 Jan 15 j 09:05	0°♍	
retrograde	-4407 Feb 22 j 05:10	7°♍28'00	
opposition	-4407 Mar 26 j 23:02	1°♍21'47	2°59'33
greatest brilliancy	-4407 Mar 27 j 23:07	1°♍02'41	-2.5m
	-4407 Mar 31 j 06:01	30°℞♌	
min. Earth dist.	-4407 Apr 03 j 21:16	28°♌52'04	0.44048 AU
direct	-4407 May 01 j 13:26	24°♌01'27	
desc. node	-4407 May 13 j 21:13	25°♌03'16	
	-4407 Jun 01 j 09:27	0°♍	
	-4407 Jul 27 j 16:31	0°♎	
	-4407 Sep 09 j 09:36	0°♏	
	-4407 Oct 21 j 01:15	0°♐	
	-4407 Dec 01 j 21:56	0°♑	
	-4406 Jan 13 j 23:32	0°♒	
	-4406 Feb 27 j 14:29	0°♓	
asc. node	-4406 Mar 29 j 07:19	19°♓26'42	
evening set	-4406 Apr 01 j 20:38	21°♓44'58	
	-4406 Apr 14 j 15:08	0°♈	
conjunction	-4406 May 20 j 12:25	22°♈59'56	0°28'36
minimum elong	-4406 May 20 j 11:26	22°♈58'21	0°28'41
max. Earth dist.	-4406 May 23 j 01:23	24°♈37'13	2.66791 AU
	-4406 May 31 j 11:48	0°♉	
morning rise	-4406 Jul 05 j 14:16	22°♉24'00	
	-4406 Jul 17 j 11:17	0°♊	
	-4406 Sep 02 j 01:18	0°♋	
	-4406 Oct 18 j 03:09	0°♌	
	-4406 Dec 03 j 01:25	0°♍	
	-4405 Jan 18 j 19:51	0°♎	
	-4405 Mar 11 j 01:34	0°♏	
desc. node	-4405 Mar 31 j 22:18	9°♏52'54	
retrograde	-4405 May 11 j 14:48	19°♏23'23	
min. Earth dist.	-4405 Jun 08 j 23:07	14°♏47'00	0.37960 AU
opposition	-4405 Jun 11 j 17:32	14°♏02'03	-4°58'10
greatest brilliancy	-4405 Jun 11 j 03:46	14°♏11'22	-2.9m
direct	-4405 Jul 11 j 12:52	9°♏01'31	
	-4405 Sep 14 j 12:43	0°♐	
	-4405 Nov 04 j 17:19	0°♑	
	-4405 Dec 22 j 03:20	0°♒	
	-4404 Feb 07 j 05:42	0°♓	
asc. node	-4404 Feb 14 j 04:26	4°♓24'22	
	-4404 Mar 25 j 16:23	0°♈	
evening set	-4404 May 10 j 12:42	28°♈56'44	
	-4404 May 12 j 04:38	0°♉	
max. Earth dist.	-4404 Jun 15 j 01:23	21°♉35'06	2.65882 AU
conjunction	-4404 Jun 26 j 06:05	28°♉47'34	1°01'44
minimum elong	-4404 Jun 26 j 04:58	28°♉45'45	1°01'54
	-4404 Jun 28 j 02:57	0°♊	
morning rise	-4404 Aug 10 j 16:08	28°♊31'31	
	-4404 Aug 12 j 21:19	0°♋	
	-4404 Sep 26 j 04:54	0°♌	
	-4404 Nov 08 j 03:05	0°♍	

Attention, astronomical year style is used: The year -4899 in astronomical counting style is the year 4900 BCE in historical counting style.

	-4404 Dec 19 j 22:38	0°♎	
	-4403 Jan 30 j 04:38	0°♏	
desc. node	-4403 Feb 16 j 00:12	12°♏11'47	
	-4403 Mar 12 j 22:26	0°♐	
	-4403 Apr 26 j 21:19	0°♑	
retrograde	-4403 Jul 12 j 16:27	29°♑40'50	
min. Earth dist.	-4403 Aug 10 j 11:58	24°♑01'43	0.47797 AU
greatest brilliancy	-4403 Aug 17 j 03:29	21°♑39'50	-2.3m
opposition	-4403 Aug 18 j 13:55	21°♑09'05	-5°28'47
direct	-4403 Sep 20 j 18:57	14°♑13'53	
	-4403 Nov 17 j 00:23	0°♒	
asc. node	-4402 Jan 01 j 02:59	23°♒13'56	
	-4402 Jan 13 j 03:18	0°♓	
	-4402 Mar 05 j 05:08	0°♈	
	-4402 Apr 23 j 07:41	0°♉	
	-4402 Jun 09 j 19:00	0°♊	
evening set	-4402 Jun 18 j 01:18	5°♊20'26	
max. Earth dist.	-4402 Jul 10 j 21:03	20°♊18'40	2.59697 AU
	-4402 Jul 25 j 09:08	0°♋	
conjunction	-4402 Aug 04 j 11:54	6°♋50'42	1°10'28
minimum elong	-4402 Aug 04 j 12:18	6°♋51'23	1°10'40
	-4402 Sep 06 j 22:36	0°♌	
morning rise	-4402 Sep 21 j 18:52	10°♌32'22	
	-4402 Oct 18 j 15:16	0°♍	
	-4402 Nov 27 j 20:51	0°♎	
desc. node	-4401 Jan 03 j 22:59	28°♎15'05	
	-4401 Jan 06 j 05:49	0°♏	
	-4401 Feb 14 j 12:55	0°♐	
	-4401 Mar 26 j 19:52	0°♑	
	-4401 May 08 j 19:58	0°♒	
	-4401 Jun 28 j 05:41	0°♓	
retrograde	-4401 Aug 25 j 10:28	17°♓32'30	
min. Earth dist.	-4401 Sep 28 j 14:06	9°♓48'28	0.59436 AU
opposition	-4401 Oct 03 j 23:05	7°♓40'55	-1°54'04
greatest brilliancy	-4401 Oct 03 j 15:01	7°♓48'54	-1.7m
	-4401 Oct 29 j 07:49	30°℞♒	
direct	-4401 Nov 10 j 03:25	29°♒04'41	
asc. node	-4401 Nov 19 j 03:43	29°♒34'45	
	-4401 Nov 22 j 11:24	0°♓	
	-4400 Feb 08 j 03:58	0°♈	
	-4400 Apr 01 j 17:43	0°♉	
	-4400 May 20 j 18:31	0°♊	
	-4400 Jul 05 j 18:22	0°♋	
evening set	-4400 Jul 28 j 23:50	15°♋51'42	
max. Earth dist.	-4400 Aug 13 j 03:16	26°♋28'08	2.48945 AU
	-4400 Aug 18 j 02:44	0°♌	
conjunction	-4400 Sep 18 j 19:24	22°♌59'48	0°41'22
minimum elong	-4400 Sep 18 j 21:22	23°♌03'25	0°41'29
	-4400 Sep 28 j 05:43	0°♍	
	-4400 Nov 06 j 17:29	0°♎	
morning rise	-4400 Nov 14 j 18:33	6°♎12'55	
desc. node	-4400 Nov 20 j 20:08	10°♎55'06	
	-4400 Dec 15 j 07:51	0°♏	
	-4399 Jan 22 j 20:36	0°♐	
	-4399 Mar 03 j 05:06	0°♑	
	-4399 Apr 13 j 09:03	0°♒	
	-4399 May 27 j 15:09	0°♓	
	-4399 Jul 17 j 01:12	0°♈	
retrograde	-4399 Sep 29 j 14:29	24°♈36'50	
asc. node	-4399 Oct 06 j 05:29	24°♈19'22	
min. Earth dist.	-4399 Nov 06 j 23:52	15°♈25'29	0.66091 AU
opposition	-4399 Nov 08 j 16:18	14°♈44'50	1°15'38
greatest brilliancy	-4399 Nov 08 j 13:48	14°♈47'22	-1.4m
direct	-4399 Dec 18 j 10:48	5°♈12'28	