Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

conjunction	-12898 Jan 30 j 18:26	9°♏44'55	-1°10'48
minimum elong	-12898 Jan 30 j 19:32	9°♏46'40	1°11'20
max. Earth dist.	-12898 Feb 05 j 14:37	13°♏30'10	2.65680 AU
	-12898 Mar 03 j 08:33	0°♐	
morning rise	-12898 Mar 19 j 16:20	10°♐26'27	
	-12898 Apr 19 j 05:15	0°♑	
	-12898 Jun 04 j 18:21	0°♒	
asc. node	-12898 Jun 29 j 06:52	15°♒53'58	
	-12898 Jul 21 j 00:12	0°♓	
	-12898 Sep 05 j 14:37	0°♈	
	-12898 Oct 24 j 15:36	0°♉	
	-12897 Jan 01 j 02:33	0°♊	
retrograde	-12897 Jan 17 j 15:25	1°♊43'16	
	-12897 Feb 03 j 07:08	30°℞♉	
opposition	-12897 Feb 17 j 15:45	26°♉29'27	5°55'01
min. Earth dist.	-12897 Feb 17 j 11:13	26°♉32'31	0.38533 AU
greatest brilliancy	-12897 Feb 17 j 19:43	26°♉26'47	-2.8m
direct	-12897 Mar 20 j 07:22	21°♉20'23	
	-12897 Apr 28 j 04:01	0°♊	
desc. node	-12897 May 13 j 05:04	6°♊42'34	
	-12897 Jun 24 j 00:42	0°♋	
	-12897 Aug 10 j 12:58	0°♌	
	-12897 Sep 25 j 16:14	0°♍	
	-12897 Nov 11 j 01:00	0°♎	
	-12897 Dec 27 j 22:20	0°♏	
evening set	-12896 Jan 22 j 02:44	16°♏02'40	
	-12896 Feb 12 j 23:36	0°♐	
max. Earth dist.	-12896 Mar 01 j 13:25	11°♐15'47	2.65614 AU
conjunction	-12896 Mar 10 j 06:24	16°♐52'08	-0°39'03
minimum elong	-12896 Mar 10 j 07:48	16°♐54'23	0°39'52
	-12896 Mar 30 j 13:00	0°♑	
morning rise	-12896 Apr 26 j 11:04	17°♑39'29	
asc. node	-12896 May 15 j 20:45	0°♒34'30	
	-12896 May 15 j 00:09	0°♒	
	-12896 Jun 28 j 02:40	0°♓	
	-12896 Aug 09 j 22:41	0°♈	
	-12896 Sep 20 j 21:59	0°♉	
	-12896 Nov 01 j 18:47	0°♊	
	-12896 Dec 15 j 05:19	0°♋	
	-12895 Feb 04 j 04:31	0°♌	
retrograde	-12895 Mar 23 j 21:56	13°♌12'47	
desc. node	-12895 Mar 30 j 09:36	12°♌54'30	
min. Earth dist.	-12895 Apr 21 j 09:17	7°♌51'35	0.45970 AU
opposition	-12895 Apr 29 j 06:15	5°♌10'47	-1°56'14
greatest brilliancy	-12895 Apr 28 j 15:17	5°♌23'34	-2.4m
	-12895 May 17 j 15:38	30°℞♋	
direct	-12895 Jun 01 j 00:55	28°♋36'28	
	-12895 Jun 16 j 01:39	0°♌	
	-12895 Aug 27 j 19:35	0°♍	
	-12895 Oct 18 j 21:00	0°♎	
	-12895 Dec 07 j 04:40	0°♏	
	-12894 Jan 24 j 07:20	0°♐	
evening set	-12894 Mar 01 j 18:37	23°♐17'09	
	-12894 Mar 12 j 02:51	0°♑	
max. Earth dist.	-12894 Mar 27 j 18:55	10°♑16'57	2.60311 AU
asc. node	-12894 Apr 02 j 14:58	14°♑08'47	
conjunction	-12894 Apr 19 j 19:53	25°♑39'51	0°10'54
minimum elong	-12894 Apr 19 j 19:25	25°♑39'05	0°10'07
behind sun begin	-12894 Apr 19 j 03:15	25°♑11'50	
behind sun end	-12894 Apr 20 j 11:35	26°♑06'21	
	-12894 Apr 26 j 05:35	0°♒	
morning rise	-12894 Jun 08 j 01:58	29°♒44'10	
	-12894 Jun 08 j 10:54	0°♓	
	-12894 Jul 19 j 22:05	0°♈	
	-12894 Aug 29 j 01:57	0°♉	
	-12894 Oct 07 j 14:31	0°♊	
	-12894 Nov 16 j 09:41	0°♋	
	-12894 Dec 27 j 18:26	0°♌	
	-12893 Feb 11 j 03:54	0°♍	
desc. node	-12893 Feb 15 j 06:22	2°♍28'45	
	-12893 Apr 14 j 14:29	0°♎	
retrograde	-12893 May 09 j 04:11	3°♎45'58	
	-12893 Jun 01 j 10:04	30°℞♍	
min. Earth dist.	-12893 Jun 11 j 11:55	26°♍25'36	0.57714 AU
greatest brilliancy	-12893 Jun 16 j 11:49	24°♍29'06	-1.7m
opposition	-12893 Jun 17 j 13:20	24°♍04'17	-5°07'00
direct	-12893 Jul 24 j 01:02	15°♍45'48	
	-12893 Sep 16 j 20:13	0°♎	
	-12893 Nov 14 j 11:31	0°♏	
	-12892 Jan 04 j 10:21	0°♐	
asc. node	-12892 Feb 18 j 15:31	28°♐19'13	
	-12892 Feb 21 j 06:08	0°♑	
	-12892 Apr 06 j 13:02	0°♒	
evening set	-12892 Apr 12 j 18:49	4°♒15'50	
max. Earth dist.	-12892 Apr 29 j 14:43	15°♒55'52	2.50384 AU
	-12892 May 19 j 11:01	0°♓	
conjunction	-12892 Jun 04 j 11:56	11°♓36'51	1°00'33
minimum elong	-12892 Jun 04 j 09:47	11°♓32'55	1°00'16
	-12892 Jun 29 j 07:52	0°♈	
morning rise	-12892 Jul 29 j 23:48	23°♈16'43	
	-12892 Aug 07 j 17:31	0°♉	
	-12892 Sep 15 j 10:04	0°♊	
	-12892 Oct 24 j 06:27	0°♋	
	-12892 Dec 03 j 05:26	0°♌	
desc. node	-12891 Jan 01 j 22:17	21°♌21'26	
	-12891 Jan 14 j 08:50	0°♍	
	-12891 Mar 01 j 09:27	0°♎	
	-12891 Apr 26 j 07:03	0°♏	
retrograde	-12891 Jun 14 j 18:25	12°♏29'51	
min. Earth dist.	-12891 Jul 22 j 10:17	3°♏32'57	0.64968 AU
opposition	-12891 Jul 24 j 18:19	2°♏36'39	-5°02'05
greatest brilliancy	-12891 Jul 24 j 09:19	2°♏45'41	-1.4m
	-12891 Jul 31 j 09:16	30°℞♎	
direct	-12891 Sep 01 j 19:08	23°♎16'40	
	-12891 Oct 07 j 16:02	0°♏	
	-12891 Dec 11 j 02:37	0°♐	
asc. node	-12890 Jan 05 j 21:28	14°♐46'02	
	-12890 Jan 30 j 23:01	0°♑	
	-12890 Mar 18 j 04:51	0°♒	
	-12890 Apr 30 j 07:07	0°♓	
evening set	-12890 Jun 03 j 16:16	25°♓14'34	
	-12890 Jun 10 j 00:08	0°♈	
max. Earth dist.	-12890 Jul 09 j 18:54	22°♈46'08	2.39219 AU
	-12890 Jul 19 j 02:45	0°♉	
conjunction	-12890 Aug 02 j 02:15	10°♉54'05	1°07'10
minimum elong	-12890 Aug 02 j 04:37	10°♉58'43	1°07'43
	-12890 Aug 26 j 11:39	0°♊	
morning rise	-12890 Oct 04 j 19:42	0°♋36'50	
	-12890 Oct 04 j 00:35	0°♋	
	-12890 Nov 12 j 14:29	0°♌	
desc. node	-12890 Nov 19 j 13:56	5°♌09'56	
	-12890 Dec 24 j 00:10	0°♍	
	-12889 Feb 05 j 23:41	0°♎	
	-12889 Mar 25 j 15:11	0°♏	
	-12889 May 20 j 02:04	0°♐	
retrograde	-12889 Jul 20 j 03:14	17°♐08'03	

Command: swevents -p4 -doall -mpdf -eswe -b1.1.-12900 -n183366 -roundmin

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

opposition	-12889 Aug 28 j 12:17	7°♐40'19	-3°20'16
greatest brilliancy	-12889 Aug 28 j 16:58	7°♐35'38	-1.4m
min. Earth dist.	-12889 Aug 29 j 23:32	7°♐05'02	0.66120 AU
	-12889 Sep 19 j 16:59	30°℞♏	
direct	-12889 Oct 08 j 00:05	27°♏48'02	
	-12889 Oct 27 j 11:07	0°♐	
asc. node	-12889 Nov 24 j 05:49	8°♐50'46	
	-12888 Jan 06 j 11:24	0°♑	
	-12888 Feb 25 j 00:08	0°♒	
	-12888 Apr 09 j 03:09	0°♓	
	-12888 May 20 j 03:52	0°♈	
	-12888 Jun 28 j 08:28	0°♉	
evening set	-12888 Aug 05 j 02:33	29°♉29'33	
	-12888 Aug 05 j 18:06	0°♊	
	-12888 Sep 13 j 08:05	0°♋	
conjunction	-12888 Oct 06 j 00:38	17°♋18'48	0°00'15
minimum elong	-12888 Oct 06 j 00:43	17°♋18'56	0°01'03
behind sun begin	-12888 Oct 04 j 22:49	16°♋30'00	
behind sun end	-12888 Oct 07 j 02:37	18°♋07'50	
desc. node	-12888 Oct 06 j 08:30	17°♋33'36	
	-12888 Oct 22 j 23:01	0°♌	
max. Earth dist.	-12888 Nov 18 j 16:16	19°♌33'21	2.45610 AU
	-12888 Dec 03 j 07:06	0°♍	
morning rise	-12888 Dec 05 j 16:38	1°♍41'42	
	-12887 Jan 15 j 19:10	0°♎	
	-12887 Mar 02 j 17:24	0°♏	
	-12887 Apr 20 j 14:16	0°♐	
	-12887 Jun 14 j 04:09	0°♑	
retrograde	-12887 Aug 26 j 03:58	22°♑33'43	
opposition	-12887 Oct 02 j 21:32	13°♑56'38	-0°22'58
greatest brilliancy	-12887 Oct 02 j 23:35	13°♑54'39	-1.6m
min. Earth dist.	-12887 Oct 08 j 00:18	11°♑57'37	0.61165 AU
asc. node	-12887 Oct 11 j 11:20	10°♑39'02	
direct	-12887 Nov 12 j 12:30	4°♑03'45	
	-12886 Jan 27 j 15:27	0°♒	
	-12886 Mar 17 j 03:05	0°♓	
	-12886 Apr 28 j 15:15	0°♈	
	-12886 Jun 07 j 12:53	0°♉	
	-12886 Jul 16 j 10:06	0°♊	
desc. node	-12886 Aug 24 j 07:24	29°♊54'34	
	-12886 Aug 24 j 10:15	0°♋	
	-12886 Oct 03 j 10:42	0°♌	
evening set	-12886 Oct 06 j 07:33	2°♌06'30	
	-12886 Nov 14 j 02:27	0°♍	
conjunction	-12886 Dec 01 j 08:14	12°♍01'25	-1°01'01
minimum elong	-12886 Dec 01 j 05:58	11°♍57'31	1°00'45
	-12886 Dec 27 j 17:07	0°♎	
max. Earth dist.	-12886 Dec 30 j 13:08	1°♎54'14	2.57049 AU
morning rise	-12885 Jan 23 j 15:43	17°♎53'54	
	-12885 Feb 11 j 05:32	0°♏	
	-12885 Mar 30 j 10:01	0°♐	
	-12885 May 18 j 06:26	0°♑	
	-12885 Jul 09 j 04:49	0°♒	
asc. node	-12885 Aug 29 j 09:58	24°♒37'10	
	-12885 Sep 14 j 07:16	0°♓	
retrograde	-12885 Oct 12 j 11:16	4°♓21'28	
	-12885 Nov 07 j 19:19	30°℞♒	
opposition	-12885 Nov 16 j 05:34	27°♒10'16	3°52'30
greatest brilliancy	-12885 Nov 17 j 05:07	26°♒49'26	-2.1m
min. Earth dist.	-12885 Nov 24 j 01:19	24°♒24'30	0.50915 AU
direct	-12885 Dec 24 j 17:35	18°♒22'54	
	-12884 Feb 07 j 23:11	0°♓	
	-12884 Mar 31 j 07:36	0°♈	
	-12884 May 13 j 07:50	0°♉	
	-12884 Jun 22 j 22:38	0°♊	
desc. node	-12884 Jul 11 j 13:34	13°♊53'51	
	-12884 Aug 02 j 05:21	0°♋	
	-12884 Sep 12 j 06:36	0°♌	
	-12884 Oct 24 j 17:51	0°♍	
evening set	-12884 Nov 24 j 23:51	21°♍20'54	
	-12884 Dec 07 j 21:38	0°♎	
conjunction	-12883 Jan 14 j 19:43	24°♎57'38	-1°15'35
minimum elong	-12883 Jan 14 j 20:03	24°♎58'11	1°15'56
	-12883 Jan 22 j 14:00	0°♏	
max. Earth dist.	-12883 Jan 26 j 21:17	2°♏47'06	2.64245 AU
morning rise	-12883 Mar 04 j 16:27	26°♏24'57	
	-12883 Mar 10 j 07:12	0°♐	
	-12883 Apr 26 j 11:08	0°♑	
	-12883 Jun 12 j 19:01	0°♒	
asc. node	-12883 Jul 16 j 02:40	20°♒56'30	
	-12883 Jul 30 j 17:09	0°♓	
	-12883 Sep 19 j 05:27	0°♈	
	-12883 Nov 26 j 02:53	0°♉	
retrograde	-12883 Dec 17 j 15:31	2°♉42'52	
	-12882 Jan 07 j 21:04	30°℞♈	
opposition	-12882 Jan 17 j 15:31	27°♈24'53	7°14'53
greatest brilliancy	-12882 Jan 18 j 19:35	27°♈05'13	-2.7m
min. Earth dist.	-12882 Jan 22 j 05:15	26°♈08'13	0.40045 AU
direct	-12882 Feb 19 j 02:11	21°♈33'21	
	-12882 Mar 28 j 18:30	0°♉	
	-12882 May 22 j 23:48	0°♊	
desc. node	-12882 May 29 j 21:01	4°♊22'29	
	-12882 Jul 07 j 13:51	0°♋	
	-12882 Aug 20 j 17:15	0°♌	
	-12882 Oct 04 j 04:42	0°♍	
	-12882 Nov 18 j 15:17	0°♎	
	-12881 Jan 04 j 00:32	0°♏	
evening set	-12881 Jan 06 j 14:19	1°♏39'08	
	-12881 Feb 19 j 20:58	0°♐	
max. Earth dist.	-12881 Feb 20 j 21:57	0°♐40'01	2.66273 AU
conjunction	-12881 Feb 24 j 00:55	2°♐40'06	-0°54'11
minimum elong	-12881 Feb 24 j 02:29	2°♐42'37	0°54'55
	-12881 Apr 07 j 11:38	0°♑	
morning rise	-12881 Apr 12 j 05:26	3°♑04'36	
	-12881 May 23 j 06:26	0°♒	
asc. node	-12881 Jun 02 j 16:26	6°♒55'25	
	-12881 Jul 06 j 23:49	0°♓	
	-12881 Aug 19 j 19:20	0°♈	
	-12881 Oct 02 j 05:55	0°♉	
	-12881 Nov 15 j 12:43	0°♊	
	-12880 Jan 03 j 23:16	0°♋	
retrograde	-12880 Mar 01 j 06:43	17°♋56'01	
min. Earth dist.	-12880 Mar 28 j 19:09	13°♋09'00	0.41656 AU
opposition	-12880 Apr 04 j 08:24	11°♋08'39	0°51'09
greatest brilliancy	-12880 Apr 04 j 04:10	11°♋11'54	-2.7m
desc. node	-12880 Apr 16 j 01:55	7°♋50'28	
direct	-12880 May 05 j 17:05	5°♋23'39	
	-12880 Jul 18 j 14:09	0°♌	
	-12880 Sep 08 j 21:21	0°♍	
	-12880 Oct 27 j 17:45	0°♎	
	-12880 Dec 14 j 19:30	0°♏	
	-12879 Jan 31 j 09:26	0°♐	
evening set	-12879 Feb 14 j 05:13	8°♐48'41	
max. Earth dist.	-12879 Mar 17 j 06:44	28°♐51'00	2.62988 AU
	-12879 Mar 19 j 01:05	0°♑	
conjunction	-12879 Apr 03 j 15:22	10°♑13'44	-0°09'50
minimum elong	-12879 Apr 03 j 15:49	10°♑14'29	0°10'40
behind sun begin	-12879 Apr 03 j 00:40	9°♑49'30	
behind sun end	-12879 Apr 04 j 06:59	10°♑39'29	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

asc. node	-12879 Apr 19 j 08:55	20°♋40'16	
	-12879 May 03 j 05:58	0°♒	
morning rise	-12879 May 21 j 16:56	12°♒34'58	
	-12879 Jun 15 j 18:00	0°♓	
	-12879 Jul 27 j 15:21	0°♈	
	-12879 Sep 06 j 07:48	0°♉	
	-12879 Oct 16 j 10:59	0°♊	
	-12879 Nov 26 j 00:46	0°♋	
	-12878 Jan 07 j 19:31	0°♌	
	-12878 Feb 26 j 21:32	0°♍	
desc. node	-12878 Mar 04 j 01:44	2°♍32'45	
retrograde	-12878 Apr 22 j 16:50	16°♍17'07	
min. Earth dist.	-12878 May 24 j 01:10	9°♍43'12	0.53431 AU
greatest brilliancy	-12878 May 30 j 03:55	7°♍25'29	-2.0m
opposition	-12878 May 31 j 07:40	6°♍59'21	-4°26'04
	-12878 Jun 24 j 23:16	30°℞♌	
direct	-12878 Jul 05 j 11:41	29°♌15'49	
	-12878 Jul 16 j 09:31	0°♍	
	-12878 Oct 01 j 13:31	0°♎	
	-12878 Nov 23 j 15:17	0°♏	
	-12877 Jan 12 j 03:05	0°♐	
	-12877 Feb 28 j 10:39	0°♑	
asc. node	-12877 Mar 07 j 07:01	4°♑27'25	
evening set	-12877 Mar 27 j 08:10	17°♑41'15	
	-12877 Apr 14 j 14:40	0°♒	
max. Earth dist.	-12877 Apr 15 j 21:23	0°♒52'19	2.54722 AU
conjunction	-12877 May 17 j 05:37	22°♒37'37	0°43'13
minimum elong	-12877 May 17 j 03:43	22°♒34'17	0°42'41
	-12877 May 27 j 14:37	0°♓	
	-12877 Jul 07 j 15:58	0°♈	
morning rise	-12877 Jul 08 j 16:22	0°♈45'29	
	-12877 Aug 16 j 07:21	0°♉	
	-12877 Sep 24 j 05:57	0°♊	
	-12877 Nov 02 j 08:29	0°♋	
	-12877 Dec 12 j 15:30	0°♌	
desc. node	-12876 Jan 19 j 19:41	26°♌51'58	
	-12876 Jan 24 j 11:14	0°♍	
	-12876 Mar 12 j 14:44	0°♎	
retrograde	-12876 May 31 j 17:16	28°♎24'48	
min. Earth dist.	-12876 Jul 06 j 19:46	20°♎01'46	0.62826 AU
opposition	-12876 Jul 10 j 15:36	18°♎30'08	-5°18'29
greatest brilliancy	-12876 Jul 09 j 23:35	18°♎46'08	-1.5m
direct	-12876 Aug 17 j 19:41	9°♎30'13	
	-12876 Oct 25 j 19:05	0°♏	
	-12876 Dec 20 j 14:40	0°♐	
asc. node	-12875 Jan 22 j 11:42	19°♐44'33	
	-12875 Feb 07 j 21:07	0°♑	
	-12875 Mar 25 j 15:18	0°♒	
	-12875 May 07 j 14:47	0°♓	
evening set	-12875 May 13 j 00:01	3°♓52'57	
max. Earth dist.	-12875 Jun 01 j 11:36	18°♓08'46	2.43087 AU
	-12875 Jun 17 j 08:24	0°♈	
conjunction	-12875 Jul 08 j 15:08	16°♈11'02	1°13'40
minimum elong	-12875 Jul 08 j 15:00	16°♈10'45	1°13'53
	-12875 Jul 26 j 12:46	0°♉	
	-12875 Sep 02 j 23:33	0°♊	
morning rise	-12875 Sep 07 j 19:04	3°♊45'42	
	-12875 Oct 11 j 14:01	0°♋	
	-12875 Nov 20 j 05:35	0°♌	
desc. node	-12875 Dec 06 j 09:55	11°♌52'51	
	-12875 Dec 31 j 19:00	0°♍	
	-12874 Feb 14 j 05:30	0°♎	
	-12874 Apr 04 j 10:33	0°♏	
	-12874 Jun 09 j 18:55	0°♐	
retrograde	-12874 Jul 06 j 08:47	4°♐00'36	
	-12874 Jul 30 j 22:27	30°℞♏	
opposition	-12874 Aug 15 j 02:35	24°♏19'52	-4°08'50
greatest brilliancy	-12874 Aug 15 j 03:08	24°♏19'19	-1.4m
min. Earth dist.	-12874 Aug 15 j 02:28	24°♏20'00	0.66422 AU
direct	-12874 Sep 24 j 03:51	14°♏37'05	
	-12874 Nov 20 j 21:35	0°♐	
asc. node	-12874 Dec 10 j 19:16	9°♐34'26	
	-12873 Jan 16 j 14:55	0°♑	
	-12873 Mar 05 j 09:12	0°♒	
	-12873 Apr 17 j 23:34	0°♓	
	-12873 May 28 j 19:58	0°♈	
	-12873 Jul 06 j 22:48	0°♉	
evening set	-12873 Jul 11 j 08:31	3°♉25'46	
	-12873 Aug 14 j 07:06	0°♊	
conjunction	-12873 Sep 11 j 15:48	22°♊08'41	0°31'26
minimum elong	-12873 Sep 11 j 18:28	22°♊13'53	0°32'14
	-12873 Sep 21 j 19:22	0°♋	
max. Earth dist.	-12873 Oct 20 j 16:50	22°♋01'52	2.40932 AU
desc. node	-12873 Oct 24 j 03:53	24°♋37'50	
	-12873 Oct 31 j 08:24	0°♌	
morning rise	-12873 Nov 13 j 23:57	10°♌04'48	
	-12873 Dec 11 j 15:19	0°♍	
	-12872 Jan 24 j 04:55	0°♎	
	-12872 Mar 10 j 12:47	0°♏	
	-12872 Apr 29 j 19:33	0°♐	
	-12872 Jun 30 j 17:03	0°♑	
retrograde	-12872 Aug 10 j 18:19	8°♑35'36	
	-12872 Sep 17 j 05:33	30°℞♐	
opposition	-12872 Sep 18 j 06:27	29°♐35'30	-1°40'43
greatest brilliancy	-12872 Sep 18 j 12:24	29°♐29'37	-1.5m
min. Earth dist.	-12872 Sep 21 j 23:52	28°♐07'21	0.63812 AU
asc. node	-12872 Oct 28 j 01:37	19°♐38'16	
direct	-12872 Oct 29 j 00:48	19°♐37'54	
	-12872 Dec 12 j 22:01	0°♑	
	-12871 Feb 08 j 11:09	0°♒	
	-12871 Mar 26 j 10:33	0°♓	
	-12871 May 07 j 03:48	0°♈	
	-12871 Jun 15 j 16:30	0°♉	
	-12871 Jul 24 j 07:37	0°♊	
	-12871 Sep 01 j 02:13	0°♋	
desc. node	-12871 Sep 10 j 01:42	6°♋51'24	
evening set	-12871 Sep 13 j 05:59	9°♋16'21	
	-12871 Oct 10 j 21:19	0°♌	
conjunction	-12871 Nov 10 j 22:14	22°♌35'14	-0°42'34
minimum elong	-12871 Nov 10 j 19:46	22°♌30'50	0°42'00
	-12871 Nov 21 j 08:25	0°♍	
max. Earth dist.	-12871 Dec 16 j 23:24	17°♍51'05	2.52911 AU
	-12870 Jan 03 j 20:06	0°♎	
morning rise	-12870 Jan 05 j 21:37	1°♎23'17	
	-12870 Feb 18 j 09:42	0°♏	
	-12870 Apr 07 j 00:12	0°♐	
	-12870 May 27 j 04:33	0°♑	
	-12870 Jul 23 j 00:52	0°♒	
asc. node	-12870 Sep 15 j 03:01	16°♒42'05	
retrograde	-12870 Sep 22 j 08:42	17°♒01'11	
opposition	-12870 Oct 28 j 11:32	9°♒11'11	2°04'46
greatest brilliancy	-12870 Oct 28 j 22:57	9°♒00'35	-1.9m
min. Earth dist.	-12870 Nov 04 j 12:27	6°♒34'37	0.55410 AU
	-12870 Dec 01 j 08:38	30°℞♑	
direct	-12870 Dec 07 j 04:47	29°♑46'05	
	-12870 Dec 13 j 02:30	0°♒	
	-12869 Feb 26 j 09:45	0°♓	
	-12869 Apr 13 j 01:56	0°♈	
	-12869 May 24 j 06:27	0°♉	
	-12869 Jul 02 j 22:36	0°♊	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

desc. node	-12869 Jul 29 j 04:21	19°♊55'01	
	-12869 Aug 11 j 13:19	0°♋	
	-12869 Sep 21 j 01:54	0°♌	
	-12869 Nov 02 j 03:18	0°♍	
evening set	-12869 Nov 07 j 12:09	3°♍44'25	
	-12869 Dec 16 j 00:02	0°♎	
conjunction	-12869 Dec 30 j 00:46	9°♎21'00	-1°14'59
minimum elong	-12869 Dec 30 j 00:05	9°♎19'52	1°15'07
max. Earth dist.	-12868 Jan 17 j 15:22	21°♎35'45	2.62010 AU
	-12868 Jan 30 j 13:06	0°♏	
morning rise	-12868 Feb 18 j 06:48	12°♏05'19	
	-12868 Mar 17 j 08:18	0°♐	
	-12868 May 03 j 23:04	0°♑	
	-12868 Jun 21 j 10:46	0°♒	
asc. node	-12868 Aug 01 j 21:51	24°♒40'34	
	-12868 Aug 11 j 06:20	0°♓	
	-12868 Oct 12 j 11:37	0°♈	
retrograde	-12868 Nov 18 j 10:01	7°♈17'39	
opposition	-12868 Dec 20 j 19:39	1°♈17'36	6°34'04
greatest brilliancy	-12868 Dec 22 j 08:29	0°♈48'47	-2.5m
	-12868 Dec 24 j 22:50	30°℞♓	
min. Earth dist.	-12868 Dec 28 j 00:55	29°♓03'03	0.43672 AU
direct	-12867 Jan 24 j 22:59	24°♓10'04	
	-12867 Feb 24 j 12:24	0°♈	
	-12867 Apr 22 j 12:51	0°♉	
	-12867 Jun 05 j 23:08	0°♊	
desc. node	-12867 Jun 15 j 11:11	6°♊40'49	
	-12867 Jul 18 j 07:38	0°♋	
	-12867 Aug 29 j 18:07	0°♌	
	-12867 Oct 12 j 04:42	0°♍	
	-12867 Nov 25 j 23:50	0°♎	
evening set	-12867 Dec 21 j 15:23	16°♎47'55	
	-12866 Jan 11 j 00:30	0°♏	
conjunction	-12866 Feb 08 j 17:07	18°♏26'37	-1°05'52
minimum elong	-12866 Feb 08 j 18:30	18°♏28'50	1°06'29
max. Earth dist.	-12866 Feb 11 j 06:14	20°♏04'34	2.66115 AU
	-12866 Feb 26 j 18:09	0°♐	
morning rise	-12866 Mar 28 j 06:33	18°♐55'05	
	-12866 Apr 14 j 12:00	0°♑	
	-12866 May 30 j 17:30	0°♒	
asc. node	-12866 Jun 19 j 12:37	12°♒58'51	
	-12866 Jul 15 j 07:43	0°♓	
	-12866 Aug 29 j 15:31	0°♈	
	-12866 Oct 14 j 19:13	0°♉	
	-12866 Dec 04 j 15:00	0°♊	
retrograde	-12865 Feb 03 j 11:09	19°♊05'47	
min. Earth dist.	-12865 Mar 04 j 06:46	14°♊19'16	0.38953 AU
opposition	-12865 Mar 07 j 06:38	13°♊29'43	4°15'40
greatest brilliancy	-12865 Mar 07 j 00:23	13°♊34'01	-2.8m
direct	-12865 Apr 06 j 15:30	8°♊19'35	
desc. node	-12865 May 03 j 18:19	12°♊41'28	
	-12865 Jun 12 j 19:30	0°♋	
	-12865 Aug 03 j 07:48	0°♌	
	-12865 Sep 19 j 21:29	0°♍	
	-12865 Nov 05 j 22:24	0°♎	
	-12865 Dec 23 j 03:56	0°♏	
evening set	-12864 Jan 30 j 21:41	24°♏35'55	
	-12864 Feb 08 j 09:04	0°♐	
max. Earth dist.	-12864 Mar 07 j 06:28	17°♐53'10	2.64904 AU
conjunction	-12864 Mar 19 j 01:09	25°♐30'25	-0°29'00
minimum elong	-12864 Mar 19 j 02:18	25°♐32'16	0°29'50
	-12864 Mar 25 j 23:03	0°♑	
morning rise	-12864 May 05 j 10:15	26°♑42'35	
asc. node	-12864 May 06 j 03:40	27°♑11'45	
	-12864 May 10 j 07:56	0°♒	
	-12864 Jun 23 j 04:49	0°♓	
	-12864 Aug 04 j 15:38	0°♈	
	-12864 Sep 15 j 01:35	0°♉	
	-12864 Oct 26 j 03:14	0°♊	
	-12864 Dec 07 j 02:44	0°♋	
	-12863 Jan 22 j 04:08	0°♌	
desc. node	-12863 Mar 20 j 19:21	24°♌54'04	
retrograde	-12863 Apr 04 j 09:52	26°♌21'54	
min. Earth dist.	-12863 May 03 j 19:47	20°♌36'01	0.48668 AU
opposition	-12863 May 11 j 18:38	17°♌46'31	-3°05'38
greatest brilliancy	-12863 May 10 j 19:50	18°♌06'48	-2.2m
direct	-12863 Jun 14 j 10:27	10°♌45'32	
	-12863 Aug 18 j 03:50	0°♍	
	-12863 Oct 12 j 15:08	0°♎	
	-12863 Dec 01 j 23:28	0°♏	
	-12862 Jan 19 j 12:19	0°♐	
	-12862 Mar 07 j 11:51	0°♑	
evening set	-12862 Mar 10 j 21:09	2°♑12'24	
asc. node	-12862 Mar 23 j 23:36	10°♑48'25	
max. Earth dist.	-12862 Apr 03 j 10:50	17°♑45'16	2.58533 AU
	-12862 Apr 21 j 15:25	0°♒	
conjunction	-12862 Apr 29 j 10:32	5°♒19'10	0°22'55
minimum elong	-12862 Apr 29 j 09:31	5°♒17'25	0°22'13
	-12862 Jun 03 j 19:11	0°♓	
morning rise	-12862 Jun 18 j 14:33	10°♓36'36	
	-12862 Jul 15 j 03:04	0°♈	
	-12862 Aug 24 j 02:05	0°♉	
	-12862 Oct 02 j 08:50	0°♊	
	-12862 Nov 10 j 20:12	0°♋	
	-12862 Dec 21 j 16:04	0°♌	
	-12861 Feb 03 j 17:18	0°♍	
desc. node	-12861 Feb 05 j 15:48	1°♍14'19	
	-12861 Mar 28 j 21:35	0°♎	
retrograde	-12861 May 18 j 01:57	13°♎25'02	
min. Earth dist.	-12861 Jun 21 j 10:35	5°♎40'42	0.59778 AU
opposition	-12861 Jun 26 j 17:23	3°♎35'54	-5°17'42
greatest brilliancy	-12861 Jun 25 j 18:46	3°♎58'12	-1.6m
	-12861 Jul 06 j 07:29	30°℞♍	
direct	-12861 Aug 02 j 20:52	25°♍00'52	
	-12861 Sep 02 j 00:40	0°♎	
	-12861 Nov 07 j 20:28	0°♏	
	-12861 Dec 30 j 02:59	0°♐	
asc. node	-12860 Feb 09 j 01:00	25°♐18'12	
	-12860 Feb 16 j 09:42	0°♑	
	-12860 Apr 01 j 20:43	0°♒	
evening set	-12860 Apr 23 j 07:25	14°♒46'20	
max. Earth dist.	-12860 May 09 j 16:10	26°♒19'18	2.47817 AU
	-12860 May 14 j 19:38	0°♓	
conjunction	-12860 Jun 16 j 06:04	23°♓43'01	1°07'52
minimum elong	-12860 Jun 16 j 04:14	23°♓39'38	1°07'46
	-12860 Jun 24 j 15:46	0°♈	
	-12860 Aug 02 j 23:41	0°♉	
morning rise	-12860 Aug 12 j 17:07	7°♉31'49	
	-12860 Sep 10 j 14:08	0°♊	
	-12860 Oct 19 j 07:50	0°♋	
	-12860 Nov 28 j 02:50	0°♌	
desc. node	-12860 Dec 23 j 08:38	18°♌19'34	
	-12859 Jan 08 j 22:52	0°♍	
	-12859 Feb 23 j 03:52	0°♎	
	-12859 Apr 16 j 08:59	0°♏	
retrograde	-12859 Jun 22 j 17:17	20°♏44'53	
min. Earth dist.	-12859 Jul 31 j 04:09	11°♏31'02	0.65744 AU
opposition	-12859 Aug 01 j 16:01	10°♏54'56	-4°46'07
greatest brilliancy	-12859 Aug 01 j 10:45	11°♏00'14	-1.4m

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

direct	-12859 Sep 10 j 02:33	1°♏25'37	
	-12859 Dec 04 j 03:22	0°♐	
asc. node	-12859 Dec 27 j 07:46	12°♐42'19	
	-12858 Jan 25 j 12:32	0°♑	
	-12858 Mar 13 j 06:01	0°♒	
	-12858 Apr 25 j 12:36	0°♓	
	-12858 Jun 05 j 06:59	0°♈	
evening set	-12858 Jun 16 j 19:39	8°♈44'32	
	-12858 Jul 14 j 09:36	0°♉	
conjunction	-12858 Aug 16 j 14:22	25°♉57'33	0°57'24
minimum elong	-12858 Aug 16 j 17:40	26°♉04'01	0°58'05
max. Earth dist.	-12858 Aug 19 j 03:37	27°♉57'35	2.38378 AU
	-12858 Aug 21 j 18:06	0°♊	
	-12858 Sep 29 j 06:19	0°♋	
morning rise	-12858 Oct 19 j 20:29	15°♋45'37	
	-12858 Nov 07 j 19:04	0°♌	
desc. node	-12858 Nov 09 j 23:40	1°♌37'45	
	-12858 Dec 19 j 02:38	0°♍	
	-12857 Jan 31 j 20:30	0°♎	
	-12857 Mar 19 j 20:19	0°♏	
	-12857 May 11 j 14:44	0°♐	
retrograde	-12857 Jul 28 j 05:53	25°♐10'12	
opposition	-12857 Sep 05 j 08:30	15°♐51'20	-2°46'51
greatest brilliancy	-12857 Sep 05 j 14:27	15°♐45'23	-1.4m
min. Earth dist.	-12857 Sep 07 j 15:27	14°♐56'34	0.65556 AU
direct	-12857 Oct 16 j 00:01	5°♐55'38	
asc. node	-12857 Nov 14 j 15:29	10°♐46'13	
	-12857 Dec 29 j 20:56	0°♑	
	-12856 Feb 19 j 06:43	0°♒	
	-12856 Apr 03 j 23:09	0°♓	
	-12856 May 15 j 05:22	0°♈	
	-12856 Jun 23 j 12:30	0°♉	
	-12856 Jul 31 j 23:36	0°♊	
evening set	-12856 Aug 19 j 12:59	14°♊28'40	
	-12856 Sep 08 j 14:24	0°♋	
desc. node	-12856 Sep 26 j 19:01	13°♋53'57	
	-12856 Oct 18 j 05:44	0°♌	
conjunction	-12856 Oct 19 j 14:02	0°♌59'55	-0°16'51
minimum elong	-12856 Oct 19 j 12:46	0°♌57'33	0°16'08
	-12856 Nov 28 j 13:49	0°♍	
max. Earth dist.	-12856 Nov 30 j 11:44	1°♍21'15	2.48288 AU
morning rise	-12856 Dec 17 j 13:48	13°♍18'41	
	-12855 Jan 11 j 00:23	0°♎	
	-12855 Feb 25 j 17:52	0°♏	
	-12855 Apr 15 j 00:12	0°♐	
	-12855 Jun 06 j 09:33	0°♑	
	-12855 Aug 20 j 01:44	0°♒	
retrograde	-12855 Sep 04 j 14:41	1°♒25'14	
	-12855 Sep 19 j 10:20	30°℞♑	
asc. node	-12855 Oct 01 j 19:12	26°♑41'43	
opposition	-12855 Oct 11 j 19:49	23°♑03'22	0°27'40
greatest brilliancy	-12855 Oct 11 j 21:57	23°♑01'20	-1.7m
min. Earth dist.	-12855 Oct 17 j 16:21	20°♑48'51	0.59321 AU
direct	-12855 Nov 21 j 05:39	13°♑17'01	
	-12854 Jan 18 j 02:12	0°♒	
	-12854 Mar 10 j 15:06	0°♓	
	-12854 Apr 22 j 23:13	0°♈	
	-12854 Jun 02 j 05:45	0°♉	
	-12854 Jul 11 j 08:34	0°♊	
desc. node	-12854 Aug 14 j 20:19	26°♊26'21	
	-12854 Aug 19 j 12:44	0°♋	
	-12854 Sep 28 j 16:07	0°♌	
evening set	-12854 Oct 18 j 11:20	14°♌23'34	
	-12854 Nov 09 j 10:01	0°♍	
conjunction	-12854 Dec 12 j 03:37	22°♍37'20	-1°08'05
minimum elong	-12854 Dec 12 j 01:51	22°♍34'20	1°07'58
	-12854 Dec 23 j 01:29	0°♎	
max. Earth dist.	-12853 Jan 06 j 13:17	9°♎40'54	2.59014 AU
morning rise	-12853 Feb 02 j 05:54	27°♎12'38	
	-12853 Feb 06 j 13:03	0°♏	
	-12853 Mar 25 j 12:50	0°♐	
	-12853 May 12 j 19:55	0°♑	
	-12853 Jul 02 j 03:20	0°♒	
asc. node	-12853 Aug 19 j 17:09	26°♒03'17	
	-12853 Aug 28 j 03:54	0°♓	
retrograde	-12853 Oct 25 j 06:04	15°♓41'56	
opposition	-12853 Nov 28 j 03:40	8°♓55'26	4°55'33
greatest brilliancy	-12853 Nov 29 j 09:59	8°♓29'31	-2.2m
min. Earth dist.	-12853 Dec 06 j 01:53	6°♓13'27	0.48261 AU
direct	-12852 Jan 04 j 15:22	0°♓38'01	
	-12852 Mar 22 j 06:37	0°♈	
	-12852 May 06 j 09:20	0°♉	
	-12852 Jun 16 j 21:27	0°♊	
desc. node	-12852 Jul 02 j 01:39	11°♊09'21	
	-12852 Jul 27 j 17:18	0°♋	
	-12852 Sep 07 j 03:36	0°♌	
	-12852 Oct 19 j 21:21	0°♍	
	-12852 Dec 03 j 05:06	0°♎	
evening set	-12852 Dec 04 j 23:28	1°♎10'24	
	-12851 Jan 17 j 23:27	0°♏	
conjunction	-12851 Jan 24 j 01:15	3°♏55'45	-1°13'23
minimum elong	-12851 Jan 24 j 02:04	3°♏57'04	1°13'52
max. Earth dist.	-12851 Feb 01 j 16:17	9°♏29'30	2.65138 AU
	-12851 Mar 05 j 15:59	0°♐	
morning rise	-12851 Mar 13 j 08:03	4°♐53'58	
	-12851 Apr 21 j 15:33	0°♑	
	-12851 Jun 07 j 12:31	0°♒	
asc. node	-12851 Jul 06 j 09:25	18°♒29'47	
	-12851 Jul 24 j 09:56	0°♓	
	-12851 Sep 10 j 08:40	0°♈	
	-12851 Nov 02 j 06:33	0°♉	
retrograde	-12850 Jan 04 j 03:25	19°♉06'56	
opposition	-12850 Feb 03 j 21:17	13°♉58'04	6°46'56
greatest brilliancy	-12850 Feb 04 j 12:46	13°♉47'34	-2.8m
min. Earth dist.	-12850 Feb 05 j 23:51	13°♉23'48	0.38858 AU
direct	-12850 Mar 07 j 04:07	8°♉36'38	
	-12850 May 11 j 02:38	0°♊	
desc. node	-12850 May 20 j 08:47	5°♊10'01	
	-12850 Jun 29 j 19:30	0°♋	
	-12850 Aug 14 j 12:16	0°♌	
	-12850 Sep 28 j 19:13	0°♍	
	-12850 Nov 13 j 16:34	0°♎	
	-12850 Dec 30 j 07:51	0°♏	
evening set	-12849 Jan 15 j 13:33	10°♏22'34	
	-12849 Feb 15 j 06:47	0°♐	
max. Earth dist.	-12849 Feb 26 j 12:22	7°♐11'40	2.66020 AU
conjunction	-12849 Mar 04 j 18:58	11°♐13'21	-0°45'49
minimum elong	-12849 Mar 04 j 20:29	11°♐15'48	0°46'35
	-12849 Apr 02 j 20:55	0°♑	
morning rise	-12849 Apr 20 j 22:07	11°♑46'34	
	-12849 May 18 j 11:58	0°♒	
asc. node	-12849 May 23 j 23:18	3°♒39'13	
	-12849 Jul 01 j 21:16	0°♓	
	-12849 Aug 14 j 03:28	0°♈	
	-12849 Sep 25 j 16:35	0°♉	
	-12849 Nov 07 j 09:54	0°♊	
	-12849 Dec 22 j 12:44	0°♋	
	-12848 Feb 22 j 00:01	0°♌	
retrograde	-12848 Mar 14 j 12:32	3°♌04'47	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12848 Apr 04 j 18:34	30°℞♋	
desc. node	-12848 Apr 06 j 14:19	29°♋29'28	
min. Earth dist.	-12848 Apr 11 j 10:13	28°♋01'32	0.43899 AU
opposition	-12848 Apr 18 j 22:36	25°♋34'30	-0°51'01
greatest brilliancy	-12848 Apr 18 j 16:03	25°♋39'51	-2.6m
direct	-12848 May 21 j 00:39	19°♋22'41	
	-12848 Jul 04 j 23:20	0°♌	
	-12848 Sep 01 j 15:47	0°♍	
	-12848 Oct 22 j 02:07	0°♎	
	-12848 Dec 09 j 19:34	0°♏	
	-12847 Jan 26 j 16:38	0°♐	
evening set	-12847 Feb 23 j 02:53	17°♐29'16	
	-12847 Mar 14 j 10:56	0°♑	
max. Earth dist.	-12847 Mar 23 j 09:18	5°♑50'19	2.61613 AU
asc. node	-12847 Apr 09 j 16:24	17°♑16'06	
conjunction	-12847 Apr 12 j 19:48	19°♑21'45	0°02'00
minimum elong	-12847 Apr 12 j 19:47	19°♑21'43	0°01'12
behind sun begin	-12847 Apr 11 j 23:36	18°♑48'04	
behind sun end	-12847 Apr 13 j 15:58	19°♑55'24	
	-12847 Apr 28 j 15:34	0°♒	
morning rise	-12847 May 31 j 11:04	22°♒34'35	
	-12847 Jun 11 j 00:37	0°♓	
	-12847 Jul 22 j 16:58	0°♈	
	-12847 Sep 01 j 02:28	0°♉	
	-12847 Oct 10 j 21:05	0°♊	
	-12847 Nov 19 j 22:55	0°♋	
	-12847 Dec 31 j 18:19	0°♌	
	-12846 Feb 16 j 10:54	0°♍	
desc. node	-12846 Feb 22 j 12:18	3°♍27'13	
retrograde	-12846 May 02 j 08:27	26°♍54'49	
min. Earth dist.	-12846 Jun 03 j 18:52	19°♍54'41	0.55874 AU
greatest brilliancy	-12846 Jun 09 j 06:48	17°♍48'14	-1.8m
opposition	-12846 Jun 10 j 09:57	17°♍22'09	-4°53'47
direct	-12846 Jul 16 j 08:20	9°♍18'21	
	-12846 Sep 22 j 23:44	0°♎	
	-12846 Nov 17 j 18:49	0°♏	
	-12845 Jan 07 j 01:55	0°♐	
	-12845 Feb 23 j 17:03	0°♑	
asc. node	-12845 Feb 25 j 15:49	1°♑15'34	
evening set	-12845 Apr 06 j 04:09	27°♑24'19	
	-12845 Apr 09 j 23:57	0°♒	
max. Earth dist.	-12845 Apr 24 j 00:33	9°♒37'05	2.52398 AU
	-12845 May 22 j 23:52	0°♓	
conjunction	-12845 May 27 j 23:36	3°♓34'46	0°53'39
minimum elong	-12845 May 27 j 21:28	3°♓30'55	0°53'15
	-12845 Jul 02 j 23:40	0°♈	
morning rise	-12845 Jul 20 j 23:48	13°♈33'42	
	-12845 Aug 11 j 12:11	0°♉	
	-12845 Sep 19 j 07:20	0°♊	
	-12845 Oct 28 j 05:48	0°♋	
	-12845 Dec 07 j 06:45	0°♌	
desc. node	-12844 Jan 10 j 04:58	24°♌13'23	
	-12844 Jan 18 j 14:36	0°♍	
	-12844 Mar 05 j 05:43	0°♎	
	-12844 May 04 j 09:39	0°♏	
retrograde	-12844 Jun 08 j 21:43	7°♏01'26	
	-12844 Jul 11 j 14:41	30°℞♎	
min. Earth dist.	-12844 Jul 15 j 21:25	28°♎18'47	0.64122 AU
opposition	-12844 Jul 18 j 21:02	27°♎06'57	-5°10'57
greatest brilliancy	-12844 Jul 18 j 08:59	27°♎19'02	-1.4m
direct	-12844 Aug 26 j 12:44	17°♎55'18	
	-12844 Oct 15 j 16:52	0°♏	
	-12844 Dec 14 j 13:23	0°♐	
asc. node	-12843 Jan 12 j 21:02	17°♐09'44	
	-12843 Feb 02 j 17:26	0°♑	
	-12843 Mar 20 j 19:31	0°♒	
	-12843 May 02 j 21:49	0°♓	
evening set	-12843 May 25 j 01:12	16°♓06'45	
	-12843 Jun 12 j 16:15	0°♈	
max. Earth dist.	-12843 Jun 19 j 14:25	5°♈14'01	2.40758 AU
	-12843 Jul 21 j 20:11	0°♉	
conjunction	-12843 Jul 22 j 05:04	0°♉17'14	1°11'40
minimum elong	-12843 Jul 22 j 06:21	0°♉19'44	1°12'05
	-12843 Aug 29 j 06:01	0°♊	
morning rise	-12843 Sep 23 j 00:06	19°♊19'19	
	-12843 Oct 06 j 19:09	0°♋	
	-12843 Nov 15 j 08:37	0°♌	
desc. node	-12843 Nov 26 j 20:44	8°♌29'46	
	-12843 Dec 26 j 18:17	0°♍	
	-12842 Feb 08 j 19:57	0°♎	
	-12842 Mar 28 j 22:28	0°♏	
	-12842 May 26 j 00:06	0°♐	
retrograde	-12842 Jul 14 j 06:56	12°♐00'01	
opposition	-12842 Aug 22 j 20:19	2°♐26'05	-3°41'56
greatest brilliancy	-12842 Aug 22 j 23:25	2°♐22'58	-1.4m
min. Earth dist.	-12842 Aug 23 j 16:09	2°♐06'11	0.66372 AU
	-12842 Aug 28 j 23:21	30°℞♏	
direct	-12842 Oct 02 j 03:48	22°♏37'22	
	-12842 Nov 08 j 19:22	0°♐	
asc. node	-12842 Dec 01 j 05:08	9°♐08'19	
	-12841 Jan 10 j 06:30	0°♑	
	-12841 Feb 28 j 01:03	0°♒	
	-12841 Apr 12 j 23:36	0°♓	
	-12841 May 23 j 23:28	0°♈	
	-12841 Jul 02 j 03:46	0°♉	
evening set	-12841 Jul 25 j 20:45	18°♉30'18	
	-12841 Aug 09 j 12:54	0°♊	
	-12841 Sep 17 j 01:43	0°♋	
conjunction	-12841 Sep 26 j 04:27	7°♋00'19	0°13'52
minimum elong	-12841 Sep 26 j 05:44	7°♋02'46	0°14'42
behind sun begin	-12841 Sep 25 j 18:26	6°♋41'09	
behind sun end	-12841 Sep 26 j 17:01	7°♋24'22	
desc. node	-12841 Oct 14 j 13:58	20°♋59'02	
	-12841 Oct 26 j 14:50	0°♌	
max. Earth dist.	-12841 Nov 08 j 16:16	9°♌39'02	2.43440 AU
morning rise	-12841 Nov 27 j 04:13	23°♌04'37	
	-12841 Dec 06 j 21:07	0°♍	
	-12840 Jan 19 j 08:09	0°♎	
	-12840 Mar 05 j 08:29	0°♏	
	-12840 Apr 23 j 15:49	0°♐	
	-12840 Jun 19 j 06:49	0°♑	
retrograde	-12840 Aug 19 j 11:06	16°♑56'40	
opposition	-12840 Sep 26 j 13:35	8°♑08'47	-0°57'14
greatest brilliancy	-12840 Sep 26 j 17:50	8°♑04'38	-1.6m
min. Earth dist.	-12840 Oct 01 j 01:57	6°♑22'49	0.62463 AU
asc. node	-12840 Oct 18 j 11:16	0°♑34'13	
	-12840 Oct 20 j 21:45	30°℞♐	
direct	-12840 Nov 06 j 07:03	28°♐12'36	
	-12840 Nov 23 j 11:17	0°♑	
	-12839 Feb 01 j 09:17	0°♒	
	-12839 Mar 20 j 16:33	0°♓	
	-12839 May 01 j 20:53	0°♈	
	-12839 Jun 10 j 14:40	0°♉	
	-12839 Jul 19 j 08:55	0°♊	
	-12839 Aug 27 j 05:58	0°♋	
desc. node	-12839 Aug 31 j 11:59	3°♋14'43	
evening set	-12839 Sep 26 j 14:30	22°♋56'08	
	-12839 Oct 06 j 02:54	0°♌	
	-12839 Nov 16 j 15:22	0°♍	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

conjunction	-12839 Nov 22 j 19:24	4°♍20'26	-0°54'03
minimum elong	-12839 Nov 22 j 16:56	4°♍16'07	0°53'39
max. Earth dist.	-12839 Dec 25 j 01:18	26°♍33'52	2.55286 AU
	-12839 Dec 30 j 03:18	0°♎	
morning rise	-12838 Jan 16 j 05:49	11°♎25'46	
	-12838 Feb 13 j 14:59	0°♏	
	-12838 Apr 01 j 22:18	0°♐	
	-12838 May 21 j 05:49	0°♑	
	-12838 Jul 13 j 17:39	0°♒	
asc. node	-12838 Sep 05 j 10:57	22°♒45'14	
retrograde	-12838 Oct 03 j 11:26	27°♒03'29	
opposition	-12838 Nov 07 j 20:34	19°♒33'56	3°05'08
greatest brilliancy	-12838 Nov 08 j 14:42	19°♒17'29	-2.0m
min. Earth dist.	-12838 Nov 15 j 09:00	16°♒50'29	0.52997 AU
direct	-12838 Dec 16 j 23:19	10°♒27'00	
	-12837 Feb 16 j 15:19	0°♓	
	-12837 Apr 06 j 04:56	0°♈	
	-12837 May 18 j 07:16	0°♉	
	-12837 Jun 27 j 10:36	0°♊	
desc. node	-12837 Jul 19 j 17:19	16°♊46'39	
	-12837 Aug 06 j 08:57	0°♋	
	-12837 Sep 16 j 03:00	0°♌	
	-12837 Oct 28 j 08:27	0°♍	
evening set	-12837 Nov 18 j 06:20	14°♍25'06	
	-12837 Dec 11 j 07:42	0°♎	
conjunction	-12836 Jan 08 j 19:07	18°♎51'00	-1°16'00
minimum elong	-12836 Jan 08 j 19:02	18°♎50'52	1°16'17
max. Earth dist.	-12836 Jan 23 j 19:55	28°♎39'18	2.63349 AU
	-12836 Jan 25 j 21:39	0°♏	
morning rise	-12836 Feb 27 j 05:20	20°♏48'28	
	-12836 Mar 12 j 14:58	0°♐	
	-12836 Apr 28 j 23:06	0°♑	
	-12836 Jun 15 j 17:47	0°♒	
asc. node	-12836 Jul 23 j 04:44	23°♒04'43	
	-12836 Aug 03 j 16:36	0°♓	
	-12836 Sep 26 j 06:31	0°♈	
retrograde	-12836 Dec 04 j 10:43	21°♈32'20	
opposition	-12835 Jan 05 j 00:15	15°♈58'22	7°08'02
greatest brilliancy	-12835 Jan 06 j 10:48	15°♈33'01	-2.6m
min. Earth dist.	-12835 Jan 11 j 02:14	14°♈11'49	0.41481 AU
direct	-12835 Feb 07 j 15:32	9°♈34'17	
	-12835 Apr 10 j 17:56	0°♉	
	-12835 May 29 j 02:00	0°♊	
desc. node	-12835 Jun 06 j 00:50	5°♊20'38	
	-12835 Jul 11 j 21:53	0°♋	
	-12835 Aug 24 j 03:44	0°♌	
	-12835 Oct 07 j 02:05	0°♍	
	-12835 Nov 21 j 04:17	0°♎	
evening set	-12835 Dec 30 j 21:25	25°♎49'35	
	-12834 Jan 06 j 08:52	0°♏	
conjunction	-12834 Feb 17 j 13:42	27°♏04'00	-0°59'32
minimum elong	-12834 Feb 17 j 15:14	27°♏06'28	1°00'14
max. Earth dist.	-12834 Feb 16 j 22:18	26°♏39'21	2.66307 AU
	-12834 Feb 22 j 03:39	0°♐	
morning rise	-12834 Apr 05 j 20:59	27°♐26'43	
	-12834 Apr 09 j 19:52	0°♑	
	-12834 May 25 j 19:39	0°♒	
asc. node	-12834 Jun 09 j 18:45	9°♒53'23	
	-12834 Jul 09 j 21:57	0°♓	
	-12834 Aug 23 j 08:05	0°♈	
	-12834 Oct 06 j 17:54	0°♉	
	-12834 Nov 21 j 22:29	0°♊	
	-12833 Jan 18 j 17:43	0°♋	
retrograde	-12833 Feb 19 j 04:48	6°♋05'56	
min. Earth dist.	-12833 Mar 18 j 22:08	1°♋24'43	0.40161 AU
	-12833 Mar 23 j 18:43	30°℞♊	
opposition	-12833 Mar 24 j 03:37	29°♊53'31	2°19'18
greatest brilliancy	-12833 Mar 23 j 19:30	29°♊59'26	-2.8m
direct	-12833 Apr 23 j 23:16	24°♊27'46	
desc. node	-12833 Apr 24 j 06:14	24°♊27'48	
	-12833 May 24 j 20:33	0°♋	
	-12833 Jul 25 j 22:55	0°♌	
	-12833 Sep 13 j 17:06	0°♍	
	-12833 Oct 31 j 15:44	0°♎	
	-12833 Dec 18 j 07:41	0°♏	
	-12832 Feb 03 j 17:29	0°♐	
evening set	-12832 Feb 08 j 17:25	3°♐10'59	
max. Earth dist.	-12832 Mar 13 j 03:41	24°♐39'43	2.63946 AU
	-12832 Mar 21 j 08:48	0°♑	
conjunction	-12832 Mar 27 j 23:21	4°♑18'48	-0°18'09
minimum elong	-12832 Mar 28 j 00:08	4°♑20'04	0°18'58
asc. node	-12832 Apr 26 j 10:13	23°♑47'28	
	-12832 May 05 j 16:13	0°♒	
morning rise	-12832 May 14 j 15:45	6°♒04'29	
	-12832 Jun 18 j 08:51	0°♓	
	-12832 Jul 30 j 12:42	0°♈	
	-12832 Sep 09 j 12:46	0°♉	
	-12832 Oct 20 j 00:47	0°♊	
	-12832 Nov 30 j 02:21	0°♋	
	-12831 Jan 12 j 20:17	0°♌	
	-12831 Mar 08 j 17:01	0°♍	
desc. node	-12831 Mar 11 j 06:49	1°♍01'07	
retrograde	-12831 Apr 15 j 03:33	8°♍26'36	
min. Earth dist.	-12831 May 15 j 13:53	2°♍14'36	0.51325 AU
	-12831 May 21 j 16:42	30°℞♌	
greatest brilliancy	-12831 May 22 j 03:21	29°♌50'11	-2.1m
opposition	-12831 May 23 j 06:11	29°♌25'28	-3°57'33
direct	-12831 Jun 26 j 19:03	22°♌00'03	
	-12831 Aug 04 j 12:57	0°♍	
	-12831 Oct 05 j 19:44	0°♎	
	-12831 Nov 26 j 13:51	0°♏	
	-12830 Jan 14 j 15:20	0°♐	
	-12830 Mar 02 j 19:59	0°♑	
asc. node	-12830 Mar 14 j 07:18	7°♑29'04	
evening set	-12830 Mar 20 j 05:34	11°♑23'03	
max. Earth dist.	-12830 Apr 10 j 12:35	25°♑35'35	2.56502 AU
	-12830 Apr 17 j 00:49	0°♒	
conjunction	-12830 May 09 j 11:10	15°♒25'58	0°34'47
minimum elong	-12830 May 09 j 09:37	15°♒23'17	0°34'10
	-12830 May 30 j 03:22	0°♓	
morning rise	-12830 Jun 29 j 18:50	22°♓11'30	
	-12830 Jul 10 j 08:28	0°♈	
	-12830 Aug 19 j 03:40	0°♉	
	-12830 Sep 27 j 05:47	0°♊	
	-12830 Nov 05 j 11:37	0°♋	
	-12830 Dec 15 j 22:28	0°♌	
desc. node	-12829 Jan 27 j 02:02	29°♌18'52	
	-12829 Jan 28 j 02:53	0°♍	
	-12829 Mar 18 j 15:13	0°♎	
retrograde	-12829 May 26 j 15:17	22°♎34'08	
min. Earth dist.	-12829 Jun 30 j 23:26	14°♎27'28	0.61569 AU
opposition	-12829 Jul 05 j 10:38	12°♎40'59	-5°20'40
greatest brilliancy	-12829 Jul 04 j 15:34	12°♎59'56	-1.6m
direct	-12829 Aug 12 j 03:43	3°♎51'26	
	-12829 Oct 31 j 11:52	0°♏	
	-12829 Dec 24 j 15:00	0°♐	
asc. node	-12828 Jan 30 j 10:58	22°♐24'28	
	-12828 Feb 11 j 11:42	0°♑	
	-12828 Mar 28 j 03:58	0°♒	
evening set	-12828 May 04 j 07:19	25°♒48'10	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12828 May 10 j 04:15	0°♓	
max. Earth dist.	-12828 May 21 j 13:06	8°♓12'42	2.45173 AU
	-12828 Jun 19 j 23:54	0°♈	
conjunction	-12828 Jun 28 j 16:30	6°♈33'33	1°12'27
minimum elong	-12828 Jun 28 j 15:28	6°♈31'36	1°12'33
	-12828 Jul 29 j 06:17	0°♉	
morning rise	-12828 Aug 27 j 06:09	22°♉34'00	
	-12828 Sep 05 j 18:36	0°♊	
	-12828 Oct 14 j 10:02	0°♋	
	-12828 Nov 23 j 02:02	0°♌	
desc. node	-12828 Dec 13 j 16:38	15°♌04'38	
	-12827 Jan 03 j 16:30	0°♍	
	-12827 Feb 17 j 07:51	0°♎	
	-12827 Apr 08 j 09:58	0°♏	
retrograde	-12827 Jun 30 j 14:54	28°♏50'23	
opposition	-12827 Aug 09 j 11:02	19°♏05'10	-4°25'53
greatest brilliancy	-12827 Aug 09 j 09:12	19°♏07'01	-1.4m
min. Earth dist.	-12827 Aug 08 j 19:17	19°♏21'02	0.66241 AU
direct	-12827 Sep 18 j 05:49	9°♏27'50	
	-12827 Nov 26 j 04:48	0°♐	
asc. node	-12827 Dec 17 j 18:28	11°♐04'15	
	-12826 Jan 19 j 20:26	0°♑	
	-12826 Mar 08 j 05:01	0°♒	
	-12826 Apr 20 j 17:10	0°♓	
	-12826 May 31 j 13:46	0°♈	
evening set	-12826 Jun 30 j 11:38	22°♈50'50	
	-12826 Jul 09 j 16:59	0°♉	
	-12826 Aug 17 j 01:14	0°♊	
conjunction	-12826 Aug 31 j 07:47	11°♊10'32	0°43'48
minimum elong	-12826 Aug 31 j 11:07	11°♊17'02	0°44'33
	-12826 Sep 24 j 12:53	0°♋	
max. Earth dist.	-12826 Sep 30 j 02:03	4°♋16'33	2.39278 AU
desc. node	-12826 Oct 31 j 09:39	28°♋02'26	
morning rise	-12826 Nov 03 j 09:09	0°♌15'50	
	-12826 Nov 03 j 00:39	0°♌	
	-12826 Dec 14 j 06:17	0°♍	
	-12825 Jan 26 j 19:54	0°♎	
	-12825 Mar 14 j 07:52	0°♏	
	-12825 May 04 j 08:51	0°♐	
	-12825 Jul 12 j 10:42	0°♑	
retrograde	-12825 Aug 05 j 12:36	3°♑16'17	
	-12825 Aug 27 j 20:58	30°℞♐	
opposition	-12825 Sep 13 j 07:40	24°♐07'27	-2°09'50
greatest brilliancy	-12825 Sep 13 j 13:59	24°♐01'11	-1.4m
min. Earth dist.	-12825 Sep 16 j 10:02	22°♐53'42	0.64713 AU
direct	-12825 Oct 24 j 01:24	14°♐09'52	
asc. node	-12825 Nov 05 j 01:14	15°♐02'46	
	-12825 Dec 20 j 18:59	0°♑	
	-12824 Feb 13 j 04:42	0°♒	
	-12824 Mar 29 j 15:00	0°♓	
	-12824 May 10 j 04:18	0°♈	
	-12824 Jun 18 j 15:01	0°♉	
	-12824 Jul 27 j 04:13	0°♊	
evening set	-12824 Sep 02 j 16:19	29°♊05'39	
	-12824 Sep 03 j 20:36	0°♋	
desc. node	-12824 Sep 17 j 06:48	10°♋15'51	
	-12824 Oct 13 j 12:57	0°♌	
conjunction	-12824 Nov 01 j 12:32	13°♌56'44	-0°32'17
minimum elong	-12824 Nov 01 j 10:22	13°♌52'49	0°31'40
	-12824 Nov 23 j 21:14	0°♍	
max. Earth dist.	-12824 Dec 10 j 08:48	11°♍34'05	2.50881 AU
morning rise	-12824 Dec 28 j 20:05	24°♍16'27	
	-12823 Jan 06 j 06:53	0°♎	
	-12823 Feb 20 j 20:29	0°♏	
	-12823 Apr 09 j 15:42	0°♐	
	-12823 May 30 j 13:43	0°♑	
	-12823 Jul 30 j 03:23	0°♒	
retrograde	-12823 Sep 14 j 12:45	10°♒35'33	
asc. node	-12823 Sep 22 j 03:36	10°♒13'21	
opposition	-12823 Oct 21 j 03:37	2°♒30'31	1°21'53
greatest brilliancy	-12823 Oct 21 j 10:36	2°♒23'56	-1.8m
	-12823 Oct 27 j 19:18	30°℞♑	
min. Earth dist.	-12823 Oct 27 j 16:23	0°♒02'43	0.57258 AU
direct	-12823 Nov 30 j 05:38	22°♑53'57	
	-12822 Jan 04 j 10:47	0°♒	
	-12822 Mar 03 j 10:52	0°♓	
	-12822 Apr 16 j 23:35	0°♈	
	-12822 May 27 j 17:56	0°♉	
	-12822 Jul 06 j 03:29	0°♊	
desc. node	-12822 Aug 05 j 08:33	23°♊03'14	
	-12822 Aug 14 j 12:42	0°♋	
	-12822 Sep 23 j 20:00	0°♌	
evening set	-12822 Oct 30 j 02:11	26°♌03'29	
	-12822 Nov 04 j 16:41	0°♍	
	-12822 Dec 18 j 09:46	0°♎	
conjunction	-12822 Dec 22 j 12:59	2°♎46'25	-1°12'51
minimum elong	-12822 Dec 22 j 11:49	2°♎44'28	1°12'52
max. Earth dist.	-12821 Jan 13 j 04:03	17°♎07'34	2.60763 AU
	-12821 Feb 01 j 20:58	0°♏	
morning rise	-12821 Feb 11 j 13:40	6°♏16'21	
	-12821 Mar 20 j 17:08	0°♐	
	-12821 May 07 j 13:56	0°♑	
	-12821 Jun 25 j 17:30	0°♒	
asc. node	-12821 Aug 09 j 23:37	25°♒59'15	
	-12821 Aug 17 j 11:30	0°♓	
retrograde	-12821 Nov 07 j 23:02	27°♓54'05	
opposition	-12821 Dec 11 j 01:19	21°♓33'22	5°54'28
greatest brilliancy	-12821 Dec 12 j 12:36	21°♓04'31	-2.4m
min. Earth dist.	-12821 Dec 18 j 18:52	19°♓02'43	0.45682 AU
direct	-12820 Jan 16 j 07:27	13°♓52'16	
	-12820 Mar 10 j 06:22	0°♈	
	-12820 Apr 28 j 13:47	0°♉	
	-12820 Jun 10 j 10:08	0°♊	
desc. node	-12820 Jun 22 j 14:53	8°♊46'52	
	-12820 Jul 21 j 23:22	0°♋	
	-12820 Sep 01 j 21:05	0°♌	
	-12820 Oct 14 j 22:27	0°♍	
	-12820 Nov 28 j 11:14	0°♎	
evening set	-12820 Dec 14 j 15:38	10°♎40'16	
	-12819 Jan 13 j 08:10	0°♏	
conjunction	-12819 Feb 02 j 02:51	12°♏44'54	-1°09'34
minimum elong	-12819 Feb 02 j 04:02	12°♏46'48	1°10'08
max. Earth dist.	-12819 Feb 07 j 09:09	16°♏07'38	2.65776 AU
	-12819 Mar 01 j 00:45	0°♐	
morning rise	-12819 Mar 21 j 22:52	13°♐23'11	
	-12819 Apr 16 j 20:59	0°♑	
	-12819 Jun 02 j 08:56	0°♒	
asc. node	-12819 Jun 26 j 15:13	15°♒45'56	
	-12819 Jul 18 j 11:40	0°♓	
	-12819 Sep 02 j 18:40	0°♈	
	-12819 Oct 20 j 23:11	0°♉	
	-12819 Dec 19 j 15:58	0°♊	
retrograde	-12818 Jan 21 j 11:15	6°♊18'30	
opposition	-12818 Feb 21 j 14:51	1°♊01'45	5°34'54
min. Earth dist.	-12818 Feb 20 j 20:24	1°♊14'11	0.38555 AU
greatest brilliancy	-12818 Feb 21 j 16:21	1°♊00'44	-2.8m
	-12818 Feb 25 j 11:23	30°℞♉	
direct	-12818 Mar 24 j 02:27	25°♉53'46	
	-12818 Apr 19 j 04:03	0°♊	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

desc. node	-12818 May 10 j 22:19	8°♊18'34	
	-12818 Jun 20 j 13:48	0°♋	
	-12818 Aug 07 j 19:31	0°♌	
	-12818 Sep 23 j 04:39	0°♍	
	-12818 Nov 08 j 15:37	0°♎	
	-12818 Dec 25 j 13:58	0°♏	
evening set	-12817 Jan 24 j 09:39	18°♏59'05	
	-12817 Feb 10 j 16:05	0°♐	
max. Earth dist.	-12817 Mar 04 j 04:10	13°♐46'35	2.65507 AU
conjunction	-12817 Mar 13 j 12:55	19°♐48'34	-0°36'25
minimum elong	-12817 Mar 13 j 14:16	19°♐50'44	0°37'14
	-12817 Mar 29 j 06:32	0°♑	
morning rise	-12817 Apr 29 j 18:01	20°♑39'33	
	-12817 May 13 j 18:37	0°♒	
asc. node	-12817 May 14 j 05:49	0°♒18'45	
	-12817 Jun 26 j 21:24	0°♓	
	-12817 Aug 08 j 16:38	0°♈	
	-12817 Sep 19 j 13:38	0°♉	
	-12817 Oct 31 j 05:40	0°♊	
	-12817 Dec 13 j 05:08	0°♋	
	-12816 Jan 31 j 06:12	0°♌	
retrograde	-12816 Mar 26 j 18:30	17°♌08'12	
desc. node	-12816 Mar 28 j 00:40	17°♌07'31	
min. Earth dist.	-12816 Apr 24 j 09:37	11°♌43'07	0.46492 AU
opposition	-12816 May 02 j 08:47	8°♌59'11	-2°15'14
greatest brilliancy	-12816 May 01 j 15:27	9°♌14'05	-2.4m
direct	-12816 Jun 04 j 07:34	2°♌19'39	
	-12816 Aug 24 j 06:54	0°♍	
	-12816 Oct 16 j 03:04	0°♎	
	-12816 Dec 04 j 16:46	0°♏	
	-12815 Jan 21 j 22:31	0°♐	
evening set	-12815 Mar 04 j 02:15	26°♐15'45	
	-12815 Mar 09 j 20:27	0°♑	
max. Earth dist.	-12815 Mar 29 j 18:55	13°♑04'40	2.60016 AU
asc. node	-12815 Mar 31 j 00:42	13°♑53'58	
conjunction	-12815 Apr 22 j 05:00	28°♑44'49	0°13'59
minimum elong	-12815 Apr 22 j 04:24	28°♑43'48	0°13'15
behind sun begin	-12815 Apr 21 j 16:40	28°♑23'58	
behind sun end	-12815 Apr 22 j 16:07	29°♑03'37	
	-12815 Apr 24 j 01:25	0°♒	
	-12815 Jun 06 j 08:32	0°♓	
morning rise	-12815 Jun 10 j 14:20	3°♓00'40	
	-12815 Jul 17 j 20:50	0°♈	
	-12815 Aug 27 j 00:48	0°♉	
	-12815 Oct 05 j 12:17	0°♊	
	-12815 Nov 14 j 04:46	0°♋	
	-12815 Dec 25 j 07:56	0°♌	
	-12814 Feb 08 j 03:29	0°♍	
desc. node	-12814 Feb 12 j 21:32	2°♍55'48	
	-12814 Apr 07 j 02:09	0°♎	
retrograde	-12814 May 11 j 13:47	6°♎59'11	
	-12814 Jun 12 j 22:32	30°℞♍	
min. Earth dist.	-12814 Jun 14 j 02:09	29°♍33'34	0.58134 AU
opposition	-12814 Jun 19 j 23:29	27°♍15'45	-5°11'05
greatest brilliancy	-12814 Jun 18 j 22:28	27°♍40'13	-1.7m
direct	-12814 Jul 26 j 14:15	18°♍53'39	
	-12814 Sep 11 j 22:30	0°♎	
	-12814 Nov 11 j 12:29	0°♏	
	-12813 Jan 01 j 21:26	0°♐	
asc. node	-12813 Feb 16 j 01:14	28°♐09'29	
	-12813 Feb 18 j 22:09	0°♑	
	-12813 Apr 05 j 08:27	0°♒	
evening set	-12813 Apr 16 j 08:26	7°♒31'04	
max. Earth dist.	-12813 May 03 j 02:56	19°♒10'53	2.49922 AU
	-12813 May 18 j 09:01	0°♓	
conjunction	-12813 Jun 08 j 06:01	15°♓07'34	1°02'32
minimum elong	-12813 Jun 08 j 03:54	15°♓03'42	1°02'18
	-12813 Jun 28 j 07:41	0°♈	
morning rise	-12813 Aug 03 j 01:46	27°♈09'37	
	-12813 Aug 06 j 18:17	0°♉	
	-12813 Sep 14 j 10:48	0°♊	
	-12813 Oct 23 j 06:02	0°♋	
	-12813 Dec 02 j 02:26	0°♌	
desc. node	-12813 Dec 31 j 15:30	21°♌20'09	
	-12812 Jan 13 j 01:06	0°♍	
	-12812 Feb 27 j 15:50	0°♎	
	-12812 Apr 21 j 21:34	0°♏	
retrograde	-12812 Jun 16 j 22:39	15°♏24'42	
min. Earth dist.	-12812 Jul 24 j 18:12	6°♏23'58	0.65132 AU
opposition	-12812 Jul 26 j 21:44	5°♏32'06	-4°58'15
greatest brilliancy	-12812 Jul 26 j 13:34	5°♏40'21	-1.4m
	-12812 Aug 10 j 20:52	30°℞♎	
direct	-12812 Sep 03 j 23:52	26°♎10'06	
	-12812 Sep 30 j 08:07	0°♏	
	-12812 Dec 08 j 00:58	0°♐	
asc. node	-12811 Jan 03 j 07:16	14°♐50'46	
	-12811 Jan 28 j 10:41	0°♑	
	-12811 Mar 15 j 22:33	0°♒	
	-12811 Apr 28 j 04:28	0°♓	
evening set	-12811 Jun 06 j 16:34	29°♓01'14	
	-12811 Jun 07 j 23:49	0°♈	
max. Earth dist.	-12811 Jul 17 j 05:10	0°♉03'00	2.38949 AU
	-12811 Jul 17 j 03:37	0°♉	
conjunction	-12811 Aug 05 j 08:45	14°♉59'17	1°05'16
minimum elong	-12811 Aug 05 j 11:23	15°♉04'25	1°05'50
	-12811 Aug 24 j 12:43	0°♊	
	-12811 Oct 02 j 00:53	0°♋	
morning rise	-12811 Oct 08 j 06:38	4°♋48'17	
	-12811 Nov 10 j 13:03	0°♌	
desc. node	-12811 Nov 17 j 06:33	4°♌59'40	
	-12811 Dec 21 j 19:57	0°♍	
	-12810 Feb 03 j 15:06	0°♎	
	-12810 Mar 22 j 22:19	0°♏	
	-12810 May 16 j 04:49	0°♐	
retrograde	-12810 Jul 22 j 07:15	19°♐59'15	
opposition	-12810 Aug 30 j 14:52	10°♐33'17	-3°11'13
greatest brilliancy	-12810 Aug 30 j 19:50	10°♐28'19	-1.4m
min. Earth dist.	-12810 Sep 01 j 06:22	9°♐53'45	0.66041 AU
direct	-12810 Oct 10 j 03:03	0°♐40'00	
asc. node	-12810 Nov 21 j 14:58	9°♐51'22	
	-12809 Jan 03 j 07:32	0°♑	
	-12809 Feb 22 j 12:36	0°♒	
	-12809 Apr 07 j 22:19	0°♓	
	-12809 May 19 j 02:37	0°♈	
	-12809 Jun 27 j 09:01	0°♉	
	-12809 Aug 04 j 19:04	0°♊	
evening set	-12809 Aug 09 j 09:21	3°♊35'46	
	-12809 Sep 12 j 08:23	0°♋	
desc. node	-12809 Oct 05 j 00:29	17°♋19'27	
conjunction	-12809 Oct 10 j 05:22	21°♋15'09	-0°03'57
minimum elong	-12809 Oct 10 j 05:03	21°♋14'35	0°03'10
behind sun begin	-12809 Oct 09 j 03:26	20°♋26'21	
behind sun end	-12809 Oct 11 j 06:40	22°♋02'45	
	-12809 Oct 21 j 21:46	0°♌	
max. Earth dist.	-12809 Nov 22 j 18:11	23°♌17'32	2.46109 AU
	-12809 Dec 02 j 03:39	0°♍	
morning rise	-12809 Dec 09 j 15:13	5°♍17'13	
	-12808 Jan 14 j 12:56	0°♎	
	-12808 Feb 29 j 07:25	0°♏	
	-12808 Apr 17 j 21:30	0°♐	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12808 Jun 10 j 14:08	0°♉	
retrograde	-12808 Aug 28 j 13:56	25°♉33'35	
opposition	-12808 Oct 05 j 04:46	16°♉59'34	-0°09'43
greatest brilliancy	-12808 Oct 05 j 05:45	16°♉58'37	-1.6m
asc. node	-12808 Oct 08 j 19:16	15°♉35'41	
min. Earth dist.	-12808 Oct 10 j 11:10	14°♉57'12	0.60833 AU
direct	-12808 Nov 14 j 18:49	7°♉07'32	
	-12807 Jan 24 j 03:27	0°♒	
	-12807 Mar 14 j 13:38	0°♓	
	-12807 Apr 26 j 09:28	0°♈	
	-12807 Jun 05 j 10:41	0°♉	
	-12807 Jul 14 j 09:23	0°♊	
desc. node	-12807 Aug 22 j 00:47	29°♊43'09	
	-12807 Aug 22 j 09:37	0°♋	
	-12807 Oct 01 j 09:02	0°♌	
evening set	-12807 Oct 09 j 05:55	5°♌46'48	
	-12807 Nov 11 j 23:00	0°♍	
conjunction	-12807 Dec 04 j 00:45	15°♍23'09	-1°02'58
minimum elong	-12807 Dec 03 j 22:37	15°♍19'28	1°02'44
	-12807 Dec 25 j 11:33	0°♎	
max. Earth dist.	-12806 Jan 01 j 11:02	4°♎41'20	2.57423 AU
morning rise	-12806 Jan 26 j 03:00	21°♎01'14	
	-12806 Feb 08 j 21:45	0°♏	
	-12806 Mar 27 j 23:36	0°♐	
	-12806 May 15 j 15:18	0°♑	
	-12806 Jul 06 j 00:22	0°♒	
asc. node	-12806 Aug 26 j 18:16	25°♒46'44	
	-12806 Sep 06 j 16:20	0°♓	
retrograde	-12806 Oct 15 j 11:11	7°♓46'59	
opposition	-12806 Nov 19 j 01:11	0°♓40'21	4°07'48
greatest brilliancy	-12806 Nov 20 j 02:24	0°♓18'09	-2.1m
	-12806 Nov 20 j 22:55	30°♓♒	
min. Earth dist.	-12806 Nov 26 j 20:53	27°♒55'25	0.50403 AU
direct	-12806 Dec 27 j 07:35	21°♒58'11	
	-12805 Feb 02 j 02:25	0°♓	
	-12805 Mar 29 j 07:10	0°♈	
	-12805 May 11 j 19:55	0°♉	
	-12805 Jun 21 j 15:34	0°♊	
desc. node	-12805 Jul 10 j 05:51	13°♊50'25	
	-12805 Aug 01 j 00:19	0°♋	
	-12805 Sep 11 j 02:03	0°♌	
	-12805 Oct 23 j 12:46	0°♍	
evening set	-12805 Nov 28 j 13:06	24°♍34'33	
	-12805 Dec 06 j 15:29	0°♎	
conjunction	-12804 Jan 18 j 05:09	28°♎00'35	-1°15'07
minimum elong	-12804 Jan 18 j 05:37	28°♎01'21	1°15'30
	-12804 Jan 21 j 06:45	0°♏	
max. Earth dist.	-12804 Jan 29 j 17:56	5°♏28'41	2.64437 AU
morning rise	-12804 Mar 06 j 22:57	29°♏21'33	
	-12804 Mar 07 j 23:02	0°♐	
	-12804 Apr 24 j 01:57	0°♑	
	-12804 Jun 10 j 07:31	0°♒	
asc. node	-12804 Jul 13 j 11:34	20°♒56'26	
	-12804 Jul 27 j 23:35	0°♓	
	-12804 Sep 15 j 17:43	0°♈	
	-12804 Nov 15 j 17:49	0°♉	
retrograde	-12804 Dec 21 j 13:53	7°♉02'55	
opposition	-12803 Jan 21 j 10:58	1°♉47'53	7°11'45
greatest brilliancy	-12803 Jan 22 j 13:14	1°♉29'35	-2.7m
min. Earth dist.	-12803 Jan 25 j 14:55	0°♉38'23	0.39738 AU
	-12803 Jan 27 j 23:13	30°♓♈	
direct	-12803 Feb 22 j 17:05	26°♈03'01	
	-12803 Mar 19 j 16:26	0°♉	
	-12803 May 19 j 11:33	0°♊	
desc. node	-12803 May 27 j 12:22	4°♊59'24	
	-12803 Jul 04 j 19:14	0°♋	
	-12803 Aug 18 j 05:03	0°♌	
	-12803 Oct 01 j 19:06	0°♍	
	-12803 Nov 16 j 06:40	0°♎	
	-12802 Jan 01 j 16:18	0°♏	
evening set	-12802 Jan 08 j 23:08	4°♏40'15	
	-12802 Feb 17 j 13:08	0°♐	
max. Earth dist.	-12802 Feb 22 j 12:03	3°♐10'24	2.66256 AU
conjunction	-12802 Feb 26 j 08:11	5°♐37'58	-0°51'59
minimum elong	-12802 Feb 26 j 09:46	5°♐40'29	0°52'44
	-12802 Apr 05 j 04:22	0°♑	
morning rise	-12802 Apr 14 j 11:51	6°♑02'46	
	-12802 May 20 j 23:34	0°♒	
asc. node	-12802 May 31 j 01:29	6°♒41'54	
	-12802 Jul 04 j 16:38	0°♓	
	-12802 Aug 17 j 10:24	0°♈	
	-12802 Sep 29 j 16:45	0°♉	
	-12802 Nov 12 j 13:31	0°♊	
	-12802 Dec 30 j 11:59	0°♋	
retrograde	-12801 Mar 05 j 10:21	22°♋10'41	
min. Earth dist.	-12801 Apr 02 j 00:47	17°♋21'17	0.42014 AU
opposition	-12801 Apr 08 j 19:07	15°♋15'13	0°25'55
greatest brilliancy	-12801 Apr 08 j 16:49	15°♋17'00	-2.7m
desc. node	-12801 Apr 14 j 18:30	13°♋27'08	
direct	-12801 May 10 j 05:32	9°♋25'37	
	-12801 Jul 15 j 10:34	0°♌	
	-12801 Sep 06 j 23:13	0°♍	
	-12801 Oct 26 j 03:39	0°♎	
	-12801 Dec 13 j 08:48	0°♏	
	-12800 Jan 30 j 00:53	0°♐	
evening set	-12800 Feb 17 j 13:41	11°♐48'19	
	-12800 Mar 16 j 18:27	0°♑	
max. Earth dist.	-12800 Mar 19 j 02:33	1°♑31'24	2.62760 AU
conjunction	-12800 Apr 06 j 00:14	13°♑16'42	-0°06'44
minimum elong	-12800 Apr 06 j 00:34	13°♑17'14	0°07'32
behind sun begin	-12800 Apr 05 j 06:34	12°♑47'32	
behind sun end	-12800 Apr 06 j 18:33	13°♑46'58	
asc. node	-12800 Apr 16 j 17:29	20°♑23'38	
	-12800 May 01 j 01:00	0°♒	
morning rise	-12800 May 24 j 03:08	15°♒45'15	
	-12800 Jun 13 j 14:17	0°♓	
	-12800 Jul 25 j 12:10	0°♈	
	-12800 Sep 04 j 04:18	0°♉	
	-12800 Oct 14 j 05:57	0°♊	
	-12800 Nov 23 j 16:13	0°♋	
	-12799 Jan 05 j 02:18	0°♌	
	-12799 Feb 22 j 19:08	0°♍	
desc. node	-12799 Mar 01 j 17:59	3°♍36'30	
retrograde	-12799 Apr 25 j 06:01	19°♍40'16	
min. Earth dist.	-12799 May 26 j 18:30	13°♍01'11	0.53895 AU
opposition	-12799 Jun 02 j 21:50	10°♍19'39	-4°34'42
greatest brilliancy	-12799 Jun 01 j 17:59	10°♍46'01	-1.9m
direct	-12799 Jul 08 j 05:50	2°♍32'01	
	-12799 Sep 28 j 02:45	0°♎	
	-12799 Nov 20 j 21:46	0°♏	
	-12798 Jan 09 j 15:44	0°♐	
	-12798 Feb 26 j 03:06	0°♑	
asc. node	-12798 Mar 04 j 15:53	4°♑14'16	
evening set	-12798 Mar 29 j 19:31	20°♑49'43	
	-12798 Apr 12 j 10:09	0°♒	
max. Earth dist.	-12798 Apr 18 j 02:38	3°♒52'24	2.54317 AU
conjunction	-12798 May 19 j 20:08	25°♒57'38	0°45'57
minimum elong	-12798 May 19 j 18:11	25°♒54'11	0°45'28
	-12798 May 25 j 12:27	0°♓	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12798 Jul 05 j 15:22	0°♈	
morning rise	-12798 Jul 11 j 12:31	4°♈23'27	
	-12798 Aug 14 j 07:20	0°♉	
	-12798 Sep 22 j 05:29	0°♊	
	-12798 Oct 31 j 06:25	0°♋	
	-12798 Dec 10 j 10:17	0°♌	
desc. node	-12797 Jan 17 j 11:22	26°♌55'44	
	-12797 Jan 21 j 23:49	0°♍	
	-12797 Mar 10 j 10:57	0°♎	
	-12797 May 19 j 23:24	0°♏	
retrograde	-12797 Jun 03 j 23:19	1°♏24'28	
	-12797 Jun 18 j 05:32	30°℞♎	
min. Earth dist.	-12797 Jul 10 j 05:44	22°♎56'53	0.63091 AU
opposition	-12797 Jul 13 j 20:54	21°♎29'40	-5°17'10
greatest brilliancy	-12797 Jul 13 j 05:43	21°♎44'52	-1.5m
direct	-12797 Aug 21 j 02:24	12°♎27'15	
	-12797 Oct 22 j 19:38	0°♏	
	-12797 Dec 18 j 19:28	0°♐	
asc. node	-12796 Jan 20 j 20:21	19°♐40'54	
	-12796 Feb 06 j 10:23	0°♑	
	-12796 Mar 23 j 09:21	0°♒	
	-12796 May 05 j 12:11	0°♓	
evening set	-12796 May 15 j 20:43	7°♓28'13	
max. Earth dist.	-12796 Jun 05 j 04:21	22°♓24'11	2.42655 AU
	-12796 Jun 15 j 08:09	0°♈	
conjunction	-12796 Jul 11 j 17:43	20°♈05'09	1°13'33
minimum elong	-12796 Jul 11 j 17:54	20°♈05'31	1°13'50
	-12796 Jul 24 j 13:51	0°♉	
	-12796 Sep 01 j 00:53	0°♊	
morning rise	-12796 Sep 11 j 05:20	7°♊57'40	
	-12796 Oct 09 j 14:27	0°♋	
	-12796 Nov 18 j 04:00	0°♌	
desc. node	-12796 Dec 04 j 03:09	11°♌45'32	
	-12796 Dec 29 j 14:00	0°♍	
	-12795 Feb 11 j 18:51	0°♎	
	-12795 Apr 01 j 11:08	0°♏	
	-12795 Jun 02 j 18:22	0°♐	
retrograde	-12795 Jul 08 j 12:31	6°♐51'37	
	-12795 Aug 10 j 03:18	30°℞♏	
opposition	-12795 Aug 17 j 05:01	27°♏12'12	-4°01'40
greatest brilliancy	-12795 Aug 17 j 06:09	27°♏11'04	-1.4m
min. Earth dist.	-12795 Aug 17 j 09:12	27°♏08'00	0.66427 AU
direct	-12795 Sep 26 j 06:55	17°♏27'57	
	-12795 Nov 16 j 10:29	0°♐	
asc. node	-12795 Dec 08 j 04:03	10°♐01'42	
	-12794 Jan 13 j 19:33	0°♑	
	-12794 Mar 02 j 23:49	0°♒	
	-12794 Apr 15 j 19:09	0°♓	
	-12794 May 26 j 18:30	0°♈	
	-12794 Jul 04 j 22:59	0°♉	
evening set	-12794 Jul 14 j 17:30	7°♉36'34	
	-12794 Aug 12 j 07:50	0°♊	
conjunction	-12794 Sep 15 j 01:21	26°♊19'01	0°27'23
minimum elong	-12794 Sep 15 j 03:45	26°♊23'39	0°28'11
	-12794 Sep 19 j 19:39	0°♋	
desc. node	-12794 Oct 21 j 19:56	24°♋24'25	
max. Earth dist.	-12794 Oct 25 j 10:11	27°♋06'07	2.41386 AU
	-12794 Oct 29 j 07:17	0°♌	
morning rise	-12794 Nov 17 j 03:54	13°♌55'01	
	-12794 Dec 09 j 11:54	0°♍	
	-12793 Jan 21 j 22:20	0°♎	
	-12793 Mar 09 j 01:20	0°♏	
	-12793 Apr 27 j 21:45	0°♐	
	-12793 Jun 26 j 12:02	0°♑	
retrograde	-12793 Aug 14 j 00:19	11°♑28'17	
opposition	-12793 Sep 21 j 10:26	2°♑30'34	-1°29'12
greatest brilliancy	-12793 Sep 21 j 16:00	2°♑25'06	-1.5m
min. Earth dist.	-12793 Sep 25 j 07:51	0°♑58'32	0.63579 AU
	-12793 Sep 27 j 19:59	30°℞♐	
asc. node	-12793 Oct 26 j 10:55	22°♐45'45	
direct	-12793 Nov 01 j 04:30	22°♐32'45	
	-12793 Dec 08 j 09:58	0°♑	
	-12792 Feb 06 j 14:56	0°♒	
	-12792 Mar 24 j 02:02	0°♓	
	-12792 May 05 j 00:09	0°♈	
	-12792 Jun 13 j 15:08	0°♉	
	-12792 Jul 22 j 07:00	0°♊	
	-12792 Aug 30 j 01:16	0°♋	
desc. node	-12792 Sep 07 j 16:43	6°♋36'26	
evening set	-12792 Sep 16 j 11:52	13°♋17'18	
	-12792 Oct 08 j 19:15	0°♌	
conjunction	-12792 Nov 13 j 21:39	26°♌14'28	-0°45'39
minimum elong	-12792 Nov 13 j 19:08	26°♌09'59	0°45'09
	-12792 Nov 19 j 04:38	0°♍	
max. Earth dist.	-12792 Dec 19 j 01:55	20°♍48'47	2.53396 AU
	-12791 Jan 01 j 14:13	0°♎	
morning rise	-12791 Jan 08 j 13:32	4°♎41'18	
	-12791 Feb 16 j 01:19	0°♏	
	-12791 Apr 04 j 12:12	0°♐	
	-12791 May 24 j 08:49	0°♑	
	-12791 Jul 18 j 22:41	0°♒	
asc. node	-12791 Sep 12 j 11:52	19°♒14'59	
retrograde	-12791 Sep 25 j 01:06	20°♒10'50	
opposition	-12791 Oct 30 j 23:53	12°♒24'24	2°19'33
greatest brilliancy	-12791 Oct 31 j 12:51	12°♒12'24	-1.9m
min. Earth dist.	-12791 Nov 07 j 02:19	9°♒46'42	0.54993 AU
direct	-12791 Dec 09 j 14:10	3°♒01'52	
	-12790 Feb 23 j 03:19	0°♓	
	-12790 Apr 10 j 14:07	0°♈	
	-12790 May 22 j 00:48	0°♉	
	-12790 Jun 30 j 19:19	0°♊	
desc. node	-12790 Jul 26 j 21:03	19°♊46'29	
	-12790 Aug 09 j 10:33	0°♋	
	-12790 Sep 18 j 22:29	0°♌	
	-12790 Oct 30 j 22:34	0°♍	
evening set	-12790 Nov 10 j 06:04	7°♍10'38	
	-12790 Dec 13 j 17:48	0°♎	
conjunction	-12789 Jan 01 j 14:07	12°♎33'12	-1°15'24
minimum elong	-12789 Jan 01 j 13:36	12°♎32'20	1°15'34
max. Earth dist.	-12789 Jan 19 j 12:58	24°♎20'37	2.62302 AU
	-12789 Jan 28 j 05:28	0°♏	
morning rise	-12789 Feb 20 j 16:02	15°♏07'23	
	-12789 Mar 15 j 23:21	0°♐	
	-12789 May 02 j 12:09	0°♑	
	-12789 Jun 19 j 19:14	0°♒	
asc. node	-12789 Jul 31 j 06:45	24°♒55'22	
	-12789 Aug 09 j 01:20	0°♓	
	-12789 Oct 06 j 21:04	0°♈	
retrograde	-12789 Nov 22 j 22:42	11°♈10'42	
opposition	-12789 Dec 25 j 04:31	5°♈16'42	6°43'02
greatest brilliancy	-12789 Dec 26 j 17:34	4°♈48'08	-2.5m
min. Earth dist.	-12788 Jan 01 j 07:04	3°♈06'05	0.43244 AU
	-12788 Jan 13 j 04:11	30°℞♓	
direct	-12788 Jan 29 j 01:16	28°♓17'30	
	-12788 Feb 14 j 03:44	0°♈	
	-12788 Apr 19 j 02:55	0°♉	
	-12788 Jun 03 j 07:02	0°♊	
desc. node	-12788 Jun 13 j 04:38	6°♊54'12	
	-12788 Jul 15 j 21:45	0°♋	
	-12788 Aug 27 j 10:39	0°♌	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12788 Oct 09 j 21:45	0°♍	
	-12788 Nov 23 j 16:32	0°♎	
evening set	-12788 Dec 24 j 01:57	19°♎53'27	
	-12787 Jan 08 j 16:41	0°♏	
conjunction	-12787 Feb 11 j 01:27	21°♏26'36	-1°04'14
minimum elong	-12787 Feb 11 j 02:53	21°♏28'53	1°04'53
max. Earth dist.	-12787 Feb 13 j 01:37	22°♏43'44	2.66172 AU
	-12787 Feb 24 j 10:08	0°♐	
morning rise	-12787 Mar 30 j 13:01	21°♐52'27	
	-12787 Apr 12 j 04:03	0°♑	
	-12787 May 28 j 09:17	0°♒	
asc. node	-12787 Jun 16 j 21:24	12°♒48'05	
	-12787 Jul 12 j 21:53	0°♓	
	-12787 Aug 27 j 01:15	0°♈	
	-12787 Oct 11 j 18:09	0°♉	
	-12787 Nov 30 j 00:53	0°♊	
retrograde	-12786 Feb 07 j 05:22	23°♊40'11	
min. Earth dist.	-12786 Mar 07 j 17:20	18°♊55'43	0.39103 AU
opposition	-12786 Mar 11 j 03:49	17°♊58'29	3°49'50
greatest brilliancy	-12786 Mar 10 j 20:49	18°♊03'21	-2.8m
direct	-12786 Apr 10 j 14:52	12°♊46'33	
desc. node	-12786 May 01 j 10:33	15°♊25'45	
	-12786 Jun 08 j 02:47	0°♋	
	-12786 Jul 31 j 06:53	0°♌	
	-12786 Sep 17 j 06:39	0°♍	
	-12786 Nov 03 j 11:17	0°♎	
	-12786 Dec 20 j 18:25	0°♏	
evening set	-12785 Feb 02 j 05:31	27°♏34'45	
	-12785 Feb 06 j 00:43	0°♐	
max. Earth dist.	-12785 Mar 09 j 23:22	20°♐28'50	2.64750 AU
conjunction	-12785 Mar 22 j 09:09	28°♐30'56	-0°26'07
minimum elong	-12785 Mar 22 j 10:12	28°♐32'38	0°26'57
	-12785 Mar 24 j 15:57	0°♑	
asc. node	-12785 May 04 j 12:10	26°♑55'45	
morning rise	-12785 May 08 j 18:46	29°♑47'40	
	-12785 May 09 j 02:07	0°♒	
	-12785 Jun 21 j 23:58	0°♓	
	-12785 Aug 03 j 10:56	0°♈	
	-12785 Sep 13 j 19:55	0°♉	
	-12785 Oct 24 j 18:46	0°♊	
	-12785 Dec 05 j 11:38	0°♋	
	-12784 Jan 19 j 16:46	0°♌	
desc. node	-12784 Mar 18 j 12:06	27°♌28'02	
	-12784 Apr 04 j 21:05	0°♍	
retrograde	-12784 Apr 07 j 03:45	0°♍02'11	
	-12784 Apr 09 j 10:10	30°℞♌	
min. Earth dist.	-12784 May 06 j 16:34	24°♌12'05	0.49157 AU
opposition	-12784 May 14 j 15:18	21°♌21'51	-3°20'23
greatest brilliancy	-12784 May 13 j 15:08	21°♌43'30	-2.2m
direct	-12784 Jun 17 j 11:57	14°♌16'06	
	-12784 Aug 13 j 17:58	0°♍	
	-12784 Oct 09 j 16:37	0°♎	
	-12784 Nov 29 j 09:33	0°♏	
	-12783 Jan 17 j 02:20	0°♐	
	-12783 Mar 05 j 04:34	0°♑	
evening set	-12783 Mar 13 j 06:42	5°♑16'07	
asc. node	-12783 Mar 21 j 08:06	10°♑33'29	
max. Earth dist.	-12783 Apr 05 j 12:47	20°♑38'27	2.58160 AU
	-12783 Apr 19 j 10:23	0°♒	
conjunction	-12783 May 01 j 22:57	8°♒32'53	0°26'02
minimum elong	-12783 May 01 j 21:47	8°♒30'53	0°25'23
	-12783 Jun 01 j 16:00	0°♓	
morning rise	-12783 Jun 21 j 07:26	14°♓05'26	
	-12783 Jul 13 j 01:05	0°♈	
	-12783 Aug 22 j 00:36	0°♉	
	-12783 Sep 30 j 06:53	0°♊	
	-12783 Nov 08 j 16:32	0°♋	
	-12783 Dec 19 j 08:29	0°♌	
	-12782 Feb 01 j 00:26	0°♍	
desc. node	-12782 Feb 03 j 08:31	1°♍30'49	
	-12782 Mar 24 j 14:43	0°♎	
retrograde	-12782 May 20 j 09:02	16°♎29'33	
min. Earth dist.	-12782 Jun 23 j 21:52	8°♎40'19	0.60129 AU
greatest brilliancy	-12782 Jun 28 j 02:18	7°♎01'10	-1.6m
opposition	-12782 Jun 29 j 00:15	6°♎39'28	-5°19'29
	-12782 Jul 19 j 01:22	30°℞♍	
direct	-12782 Aug 05 j 05:22	28°♍01'29	
	-12782 Aug 23 j 13:42	0°♎	
	-12782 Nov 04 j 16:09	0°♏	
	-12782 Dec 27 j 12:31	0°♐	
asc. node	-12781 Feb 06 j 10:50	25°♐10'31	
	-12781 Feb 14 j 01:07	0°♑	
	-12781 Mar 31 j 15:53	0°♒	
evening set	-12781 Apr 26 j 23:11	18°♒07'33	
	-12781 May 13 j 17:28	0°♓	
max. Earth dist.	-12781 May 13 j 12:15	29°♒50'41	2.47303 AU
conjunction	-12781 Jun 20 j 04:06	27°♓24'22	1°09'15
minimum elong	-12781 Jun 20 j 02:25	27°♓21'15	1°09'11
	-12781 Jun 23 j 15:16	0°♈	
	-12781 Aug 01 j 23:57	0°♉	
morning rise	-12781 Aug 17 j 01:05	11°♉39'40	
	-12781 Sep 09 j 14:12	0°♊	
	-12781 Oct 18 j 06:48	0°♋	
	-12781 Nov 26 j 23:38	0°♌	
desc. node	-12781 Dec 21 j 23:46	18°♌13'06	
	-12780 Jan 07 j 15:54	0°♍	
	-12780 Feb 21 j 13:34	0°♎	
	-12780 Apr 12 j 19:54	0°♏	
retrograde	-12780 Jun 24 j 21:08	23°♏36'29	
min. Earth dist.	-12780 Aug 02 j 10:52	14°♏19'21	0.65863 AU
opposition	-12780 Aug 03 j 18:33	13°♏47'26	-4°40'57
greatest brilliancy	-12780 Aug 03 j 14:01	13°♏52'00	-1.4m
direct	-12780 Sep 12 j 05:50	4°♏16'29	
	-12780 Nov 30 j 19:04	0°♐	
asc. node	-12780 Dec 24 j 17:59	12°♐53'21	
	-12779 Jan 22 j 22:38	0°♑	
	-12779 Mar 10 j 23:17	0°♒	
	-12779 Apr 23 j 10:04	0°♓	
	-12779 Jun 03 j 07:03	0°♈	
evening set	-12779 Jun 19 j 21:38	12°♈36'00	
	-12779 Jul 12 j 11:00	0°♉	
conjunction	-12779 Aug 19 j 22:37	0°♊05'53	0°54'33
minimum elong	-12779 Aug 20 j 02:00	0°♊12'30	0°55'14
	-12779 Aug 19 j 19:37	0°♊	
max. Earth dist.	-12779 Aug 28 j 04:57	6°♊34'28	2.38389 AU
	-12779 Sep 27 j 06:52	0°♋	
morning rise	-12779 Oct 23 j 06:45	19°♋53'16	
	-12779 Nov 05 j 17:43	0°♌	
desc. node	-12779 Nov 07 j 15:46	1°♌25'48	
	-12779 Dec 16 j 22:29	0°♍	
	-12778 Jan 29 j 12:28	0°♎	
	-12778 Mar 17 j 05:46	0°♏	
	-12778 May 08 j 06:16	0°♐	
retrograde	-12778 Jul 30 j 10:38	28°♐01'01	
opposition	-12778 Sep 07 j 11:28	18°♐44'05	-2°36'52
greatest brilliancy	-12778 Sep 07 j 17:30	18°♐38'04	-1.4m
min. Earth dist.	-12778 Sep 09 j 22:19	17°♐45'24	0.65430 AU
direct	-12778 Oct 18 j 03:00	8°♐47'40	
asc. node	-12778 Nov 12 j 00:45	12°♐18'19	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12778 Dec 26 j 07:44	0°♉	
	-12777 Feb 16 j 16:58	0°♒	
	-12777 Apr 02 j 17:22	0°♓	
	-12777 May 14 j 03:37	0°♈	
	-12777 Jun 22 j 12:54	0°♉	
	-12777 Jul 31 j 00:45	0°♊	
evening set	-12777 Aug 23 j 18:45	18°♊30'52	
	-12777 Sep 07 j 15:10	0°♋	
desc. node	-12777 Sep 25 j 12:03	13°♋40'15	
	-12777 Oct 17 j 05:07	0°♌	
conjunction	-12777 Oct 23 j 16:26	4°♌47'52	-0°20'43
minimum elong	-12777 Oct 23 j 14:54	4°♌45'02	0°19'59
	-12777 Nov 27 j 11:02	0°♍	
max. Earth dist.	-12777 Dec 03 j 23:01	4°♍35'57	2.48763 AU
morning rise	-12777 Dec 21 j 09:55	16°♍46'26	
	-12776 Jan 09 j 18:51	0°♎	
	-12776 Feb 24 j 08:55	0°♏	
	-12776 Apr 12 j 09:53	0°♐	
	-12776 Jun 03 j 05:25	0°♑	
	-12776 Aug 09 j 13:45	0°♒	
retrograde	-12776 Sep 07 j 02:11	4°♒26'03	
asc. node	-12776 Sep 29 j 03:59	1°♒16'12	
	-12776 Oct 03 j 08:34	30°℞♑	
opposition	-12776 Oct 14 j 03:59	26°♑07'18	0°41'26
greatest brilliancy	-12776 Oct 14 j 07:14	26°♑04'12	-1.7m
min. Earth dist.	-12776 Oct 20 j 03:16	23°♑50'16	0.58962 AU
direct	-12776 Nov 23 j 12:09	16°♑22'10	
	-12775 Jan 13 j 18:56	0°♒	
	-12775 Mar 07 j 22:26	0°♓	
	-12775 Apr 20 j 16:06	0°♈	
	-12775 May 31 j 02:37	0°♉	
	-12775 Jul 09 j 07:04	0°♊	
desc. node	-12775 Aug 12 j 13:06	26°♊14'59	
	-12775 Aug 17 j 11:28	0°♋	
	-12775 Sep 26 j 14:07	0°♌	
evening set	-12775 Oct 21 j 07:43	17°♌57'28	
	-12775 Nov 07 j 06:32	0°♍	
conjunction	-12775 Dec 14 j 18:45	25°♍54'22	-1°09'29
minimum elong	-12775 Dec 14 j 17:08	25°♍51'38	1°09'24
	-12775 Dec 20 j 20:09	0°♎	
max. Earth dist.	-12774 Jan 08 j 08:59	12°♎23'05	2.59353 AU
morning rise	-12774 Feb 04 j 16:25	0°♏17'24	
	-12774 Feb 04 j 05:41	0°♏	
	-12774 Mar 23 j 03:13	0°♐	
	-12774 May 10 j 06:42	0°♑	
	-12774 Jun 29 j 05:20	0°♒	
asc. node	-12774 Aug 17 j 01:09	26°♒44'14	
	-12774 Aug 23 j 17:17	0°♓	
retrograde	-12774 Oct 28 j 06:52	19°♓13'18	
opposition	-12774 Dec 01 j 02:05	12°♓31'12	5°09'31
greatest brilliancy	-12774 Dec 02 j 09:42	12°♓04'22	-2.2m
min. Earth dist.	-12774 Dec 09 j 00:18	9°♓50'41	0.47794 AU
direct	-12773 Jan 07 j 07:48	4°♓20'03	
	-12773 Mar 19 j 18:15	0°♈	
	-12773 May 04 j 18:08	0°♉	
	-12773 Jun 15 j 12:56	0°♊	
desc. node	-12773 Jun 30 j 18:52	11°♊10'15	
	-12773 Jul 26 j 11:19	0°♋	
	-12773 Sep 05 j 22:16	0°♌	
	-12773 Oct 18 j 15:37	0°♍	
	-12773 Dec 01 j 22:32	0°♎	
evening set	-12773 Dec 08 j 11:25	4°♎20'25	
	-12772 Jan 16 j 16:01	0°♏	
conjunction	-12772 Jan 27 j 10:26	6°♏57'43	-1°12'28
minimum elong	-12772 Jan 27 j 11:22	6°♏59'12	1°12'57
max. Earth dist.	-12772 Feb 04 j 12:53	12°♏10'49	2.65276 AU
	-12772 Mar 03 j 07:52	0°♐	
morning rise	-12772 Mar 15 j 15:02	7°♐51'39	
	-12772 Apr 19 j 06:37	0°♑	
	-12772 Jun 05 j 01:52	0°♒	
asc. node	-12772 Jul 03 j 17:19	18°♒24'30	
	-12772 Jul 21 j 19:05	0°♓	
	-12772 Sep 07 j 07:15	0°♈	
	-12772 Oct 28 j 16:03	0°♉	
retrograde	-12771 Jan 07 j 23:12	23°♉37'40	
opposition	-12771 Feb 07 j 19:34	18°♉28'19	6°33'42
greatest brilliancy	-12771 Feb 08 j 08:10	18°♉19'48	-2.8m
min. Earth dist.	-12771 Feb 09 j 08:49	18°♉03'10	0.38752 AU
direct	-12771 Mar 10 j 20:56	13°♉10'29	
	-12771 May 06 j 07:36	0°♊	
desc. node	-12771 May 18 j 02:01	6°♊13'56	
	-12771 Jun 26 j 18:17	0°♋	
	-12771 Aug 11 j 21:50	0°♌	
	-12771 Sep 26 j 08:43	0°♍	
	-12771 Nov 11 j 07:29	0°♎	
	-12771 Dec 27 j 23:18	0°♏	
evening set	-12770 Jan 17 j 21:01	13°♏21'00	
	-12770 Feb 12 j 22:50	0°♐	
max. Earth dist.	-12770 Feb 28 j 02:52	9°♐42'51	2.65943 AU
conjunction	-12770 Mar 07 j 02:00	14°♐11'07	-0°43'19
minimum elong	-12770 Mar 07 j 03:29	14°♐13'30	0°44'07
	-12770 Mar 31 j 13:45	0°♑	
morning rise	-12770 Apr 23 j 05:13	14°♑46'56	
	-12770 May 16 j 05:27	0°♒	
asc. node	-12770 May 21 j 07:37	3°♒23'48	
	-12770 Jun 29 j 14:41	0°♓	
	-12770 Aug 11 j 19:35	0°♈	
	-12770 Sep 23 j 05:36	0°♉	
	-12770 Nov 04 j 16:27	0°♊	
	-12770 Dec 19 j 02:34	0°♋	
	-12769 Feb 12 j 15:53	0°♌	
retrograde	-12769 Mar 18 j 12:38	7°♌10'53	
desc. node	-12769 Apr 05 j 05:35	5°♌00'37	
min. Earth dist.	-12769 Apr 15 j 12:38	2°♌04'37	0.44387 AU
	-12769 Apr 21 j 20:17	30°℞♋	
opposition	-12769 Apr 23 j 05:14	29°♋32'48	-1°13'12
greatest brilliancy	-12769 Apr 22 j 19:46	29°♋40'36	-2.5m
direct	-12769 May 25 j 10:37	23°♋15'42	
	-12769 Jun 29 j 06:26	0°♌	
	-12769 Aug 30 j 10:36	0°♍	
	-12769 Oct 20 j 09:53	0°♎	
	-12769 Dec 08 j 08:00	0°♏	
	-12768 Jan 25 j 07:39	0°♐	
evening set	-12768 Feb 26 j 10:36	20°♐28'17	
	-12768 Mar 12 j 04:05	0°♑	
max. Earth dist.	-12768 Mar 25 j 06:49	8°♑34'13	2.61343 AU
asc. node	-12768 Apr 07 j 01:25	17°♑00'39	
conjunction	-12768 Apr 15 j 04:44	22°♑26'08	0°05'10
minimum elong	-12768 Apr 15 j 04:30	22°♑25'45	0°04'23
behind sun begin	-12768 Apr 14 j 08:45	21°♑52'45	
behind sun end	-12768 Apr 16 j 00:16	22°♑58'47	
	-12768 Apr 26 j 10:42	0°♒	
morning rise	-12768 Jun 02 j 22:18	25°♒48'31	
	-12768 Jun 08 j 21:21	0°♓	
	-12768 Jul 20 j 14:33	0°♈	
	-12768 Aug 29 j 23:55	0°♉	
	-12768 Oct 08 j 17:12	0°♊	
	-12768 Nov 17 j 15:56	0°♋	
	-12768 Dec 29 j 04:42	0°♌	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12767 Feb 13 j 02:29	0°♍	
desc. node	-12767 Feb 20 j 03:06	4°♍07'17	
	-12767 Apr 28 j 19:17	0°♎	
retrograde	-12767 May 04 j 20:06	0°♎14'50	
	-12767 May 10 j 18:06	30°℞♍	
min. Earth dist.	-12767 Jun 06 j 11:22	23°♍09'01	0.56331 AU
opposition	-12767 Jun 12 j 22:29	20°♍39'35	-4°59'44
greatest brilliancy	-12767 Jun 11 j 19:36	21°♍05'34	-1.8m
direct	-12767 Jul 18 j 23:31	12°♍31'52	
	-12767 Sep 18 j 20:59	0°♎	
	-12767 Nov 14 j 21:55	0°♏	
	-12766 Jan 04 j 13:18	0°♐	
	-12766 Feb 21 j 08:48	0°♑	
asc. node	-12766 Feb 23 j 01:15	1°♑05'09	
	-12766 Apr 07 j 18:52	0°♒	
evening set	-12766 Apr 08 j 16:28	0°♒36'39	
max. Earth dist.	-12766 Apr 26 j 10:48	12°♒47'59	2.51959 AU
	-12766 May 20 j 21:20	0°♓	
conjunction	-12766 May 30 j 15:52	7°♓00'57	0°55'59
minimum elong	-12766 May 30 j 13:44	6°♓57'05	0°55'39
	-12766 Jun 30 j 22:56	0°♈	
morning rise	-12766 Jul 23 j 23:17	17°♈20'46	
	-12766 Aug 09 j 12:24	0°♉	
	-12766 Sep 17 j 07:28	0°♊	
	-12766 Oct 26 j 04:38	0°♋	
	-12766 Dec 05 j 02:47	0°♌	
desc. node	-12765 Jan 07 j 21:46	24°♌14'40	
	-12765 Jan 16 j 05:21	0°♍	
	-12765 Mar 03 j 08:32	0°♎	
	-12765 Apr 29 j 17:53	0°♏	
retrograde	-12765 Jun 12 j 02:54	9°♏59'30	
min. Earth dist.	-12765 Jul 19 j 06:01	1°♏12'52	0.64335 AU
opposition	-12765 Jul 22 j 01:25	0°♏05'05	-5°08'01
greatest brilliancy	-12765 Jul 21 j 14:10	0°♏16'24	-1.4m
	-12765 Jul 22 j 06:28	30°℞♎	
direct	-12765 Aug 29 j 18:19	20°♎51'16	
	-12765 Oct 11 j 12:11	0°♏	
	-12765 Dec 12 j 14:34	0°♐	
asc. node	-12764 Jan 11 j 06:26	17°♐10'45	
	-12764 Feb 01 j 05:43	0°♑	
	-12764 Mar 18 j 13:15	0°♒	
	-12764 Apr 30 j 19:02	0°♓	
evening set	-12764 May 28 j 00:01	19°♓48'43	
	-12764 Jun 10 j 15:43	0°♈	
max. Earth dist.	-12764 Jun 24 j 05:31	10°♈16'33	2.40359 AU
	-12764 Jul 19 j 20:54	0°♉	
conjunction	-12764 Jul 25 j 10:29	4°♉19'27	1°10'32
minimum elong	-12764 Jul 25 j 12:08	4°♉22'38	1°11'00
	-12764 Aug 27 j 07:00	0°♊	
morning rise	-12764 Sep 26 j 12:20	23°♊34'49	
	-12764 Oct 04 j 19:25	0°♋	
	-12764 Nov 13 j 07:08	0°♌	
desc. node	-12764 Nov 24 j 13:03	8°♌19'36	
	-12764 Dec 24 j 13:52	0°♍	
	-12763 Feb 06 j 10:42	0°♎	
	-12763 Mar 26 j 03:28	0°♏	
	-12763 May 21 j 12:19	0°♐	
retrograde	-12763 Jul 16 j 11:15	14°♐51'19	
opposition	-12763 Aug 24 j 22:46	5°♐18'51	-3°33'34
greatest brilliancy	-12763 Aug 25 j 02:15	5°♐15'21	-1.4m
min. Earth dist.	-12763 Aug 25 j 22:25	4°♐55'05	0.66333 AU
	-12763 Sep 07 j 23:38	30°℞♏	
direct	-12763 Oct 04 j 06:25	25°♏29'02	
	-12763 Nov 01 j 23:59	0°♐	
asc. node	-12763 Nov 28 j 13:56	9°♐51'53	
	-12762 Jan 07 j 06:52	0°♑	
	-12762 Feb 25 j 14:51	0°♒	
	-12762 Apr 10 j 19:24	0°♓	
	-12762 May 21 j 22:34	0°♈	
	-12762 Jun 30 j 04:31	0°♉	
evening set	-12762 Jul 29 j 04:28	22°♉38'17	
	-12762 Aug 07 j 14:00	0°♊	
	-12762 Sep 15 j 02:07	0°♋	
conjunction	-12762 Sep 29 j 11:29	11°♋03'13	0°09'40
minimum elong	-12762 Sep 29 j 12:24	11°♋04'58	0°10'28
behind sun begin	-12762 Sep 28 j 15:53	10°♋25'48	
behind sun end	-12762 Sep 30 j 08:55	11°♋44'06	
desc. node	-12762 Oct 12 j 05:59	20°♋45'07	
	-12762 Oct 24 j 13:40	0°♌	
max. Earth dist.	-12762 Nov 12 j 09:43	13°♌54'10	2.43930 AU
morning rise	-12762 Nov 30 j 05:30	26°♌47'08	
	-12762 Dec 04 j 17:44	0°♍	
	-12761 Jan 17 j 01:51	0°♎	
	-12761 Mar 03 j 22:04	0°♏	
	-12761 Apr 21 j 21:27	0°♐	
	-12761 Jun 16 j 07:15	0°♑	
retrograde	-12761 Aug 22 j 20:19	19°♑53'58	
opposition	-12761 Sep 29 j 19:45	11°♑08'48	-0°44'37
greatest brilliancy	-12761 Sep 29 j 23:13	11°♑05'25	-1.6m
min. Earth dist.	-12761 Oct 04 j 11:17	9°♑19'46	0.62172 AU
asc. node	-12761 Oct 16 j 19:08	4°♑56'56	
direct	-12761 Nov 09 j 12:02	1°♑13'06	
	-12760 Jan 30 j 05:18	0°♒	
	-12760 Mar 18 j 05:39	0°♓	
	-12760 Apr 29 j 16:31	0°♈	
	-12760 Jun 08 j 13:26	0°♉	
	-12760 Jul 17 j 08:57	0°♊	
	-12760 Aug 25 j 05:52	0°♋	
desc. node	-12760 Aug 29 j 05:17	3°♋02'16	
evening set	-12760 Sep 29 j 15:05	26°♋42'25	
	-12760 Oct 04 j 01:39	0°♌	
	-12760 Nov 14 j 12:17	0°♍	
conjunction	-12760 Nov 25 j 14:10	7°♍47'31	-0°56'28
minimum elong	-12760 Nov 25 j 11:44	7°♍43'16	0°56'08
max. Earth dist.	-12760 Dec 27 j 00:12	29°♍23'07	2.55693 AU
	-12760 Dec 27 j 22:02	0°♎	
morning rise	-12759 Jan 18 j 18:51	14°♎36'36	
	-12759 Feb 11 j 07:21	0°♏	
	-12759 Mar 30 j 11:38	0°♐	
	-12759 May 18 j 13:23	0°♑	
	-12759 Jul 10 j 07:09	0°♒	
asc. node	-12759 Sep 02 j 19:19	24°♒23'46	
	-12759 Sep 28 j 12:12	0°♓	
retrograde	-12759 Oct 06 j 08:00	0°♓22'22	
	-12759 Oct 13 j 22:19	30°℞♒	
opposition	-12759 Nov 10 j 13:16	22°♒56'53	3°20'27
greatest brilliancy	-12759 Nov 11 j 09:00	22°♒39'03	-2.0m
min. Earth dist.	-12759 Nov 18 j 02:33	20°♒13'21	0.52510 AU
direct	-12759 Dec 19 j 11:08	13°♒54'15	
	-12758 Feb 12 j 10:05	0°♓	
	-12758 Apr 03 j 10:40	0°♈	
	-12758 May 15 j 22:15	0°♉	
	-12758 Jun 25 j 05:26	0°♊	
desc. node	-12758 Jul 17 j 09:57	16°♊40'32	
	-12758 Aug 04 j 05:19	0°♋	
	-12758 Sep 13 j 23:28	0°♌	
	-12758 Oct 26 j 04:08	0°♍	
evening set	-12758 Nov 20 j 21:00	17°♍42'06	
	-12758 Dec 09 j 02:07	0°♎	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

conjunction	-12757 Jan 11 j 05:41	21°♎55'59	-1°15'54
minimum elong	-12757 Jan 11 j 05:46	21°♎56'07	1°16'11
	-12757 Jan 23 j 14:49	0°♏	
max. Earth dist.	-12757 Jan 25 j 14:54	1°♏18'01	2.63584 AU
morning rise	-12757 Mar 01 j 12:32	23°♏45'44	
	-12757 Mar 11 j 07:02	0°♐	
	-12757 Apr 27 j 13:45	0°♑	
	-12757 Jun 14 j 05:21	0°♒	
asc. node	-12757 Jul 21 j 13:36	23°♒09'12	
	-12757 Aug 01 j 19:46	0°♓	
	-12757 Sep 23 j 03:51	0°♈	
retrograde	-12757 Dec 09 j 07:32	25°♈40'57	
opposition	-12756 Jan 09 j 15:34	20°♈11'36	7°11'24
greatest brilliancy	-12756 Jan 11 j 01:23	19°♈47'02	-2.6m
min. Earth dist.	-12756 Jan 15 j 10:30	18°♈31'01	0.41080 AU
direct	-12756 Feb 12 j 01:37	13°♈55'33	
	-12756 Apr 05 j 22:30	0°♉	
	-12756 May 26 j 00:26	0°♊	
desc. node	-12756 Jun 03 j 16:08	5°♊43'57	
	-12756 Jul 09 j 07:21	0°♋	
	-12756 Aug 21 j 17:40	0°♌	
	-12756 Oct 04 j 17:49	0°♍	
	-12756 Nov 18 j 20:30	0°♎	
evening set	-12755 Jan 02 j 06:45	28°♎51'45	
	-12755 Jan 04 j 01:08	0°♏	
conjunction	-12755 Feb 19 j 20:58	0°♐01'30	-0°57'35
minimum elong	-12755 Feb 19 j 22:31	0°♐03'59	0°58'17
max. Earth dist.	-12755 Feb 18 j 15:19	29°♏14'03	2.66325 AU
	-12755 Feb 19 j 20:02	0°♐	
	-12755 Apr 07 j 12:31	0°♑	
morning rise	-12755 Apr 08 j 02:43	0°♑22'56	
	-12755 May 23 j 12:27	0°♒	
asc. node	-12755 Jun 07 j 03:58	9°♒41'03	
	-12755 Jul 07 j 13:59	0°♓	
	-12755 Aug 20 j 21:32	0°♈	
	-12755 Oct 04 j 01:14	0°♉	
	-12755 Nov 18 j 13:51	0°♊	
	-12754 Jan 11 j 06:47	0°♋	
retrograde	-12754 Feb 22 j 12:55	10°♋30'02	
min. Earth dist.	-12754 Mar 22 j 05:51	5°♋48'15	0.40425 AU
opposition	-12754 Mar 27 j 19:00	4°♋10'02	1°52'30
greatest brilliancy	-12754 Mar 27 j 11:44	4°♋15'25	-2.8m
	-12754 Apr 13 j 08:40	30°℞♊	
desc. node	-12754 Apr 21 j 22:38	28°♊53'38	
direct	-12754 Apr 27 j 16:31	28°♊40'37	
	-12754 May 12 j 04:17	0°♋	
	-12754 Jul 22 j 10:15	0°♌	
	-12754 Sep 10 j 22:19	0°♍	
	-12754 Oct 29 j 02:48	0°♎	
	-12754 Dec 15 j 21:25	0°♏	
	-12753 Feb 01 j 09:02	0°♐	
evening set	-12753 Feb 11 j 01:05	6°♐09'21	
max. Earth dist.	-12753 Mar 15 j 19:19	27°♐13'13	2.63759 AU
	-12753 Mar 20 j 01:59	0°♑	
conjunction	-12753 Mar 31 j 07:13	7°♑19'27	-0°15'08
minimum elong	-12753 Mar 31 j 07:52	7°♑20'32	0°15'57
asc. node	-12753 Apr 24 j 19:15	23°♑31'50	
	-12753 May 04 j 10:55	0°♒	
morning rise	-12753 May 18 j 00:26	9°♒10'58	
	-12753 Jun 17 j 04:36	0°♓	
	-12753 Jul 29 j 08:48	0°♈	
	-12753 Sep 08 j 08:18	0°♉	
	-12753 Oct 18 j 18:26	0°♊	
	-12753 Nov 28 j 15:34	0°♋	
	-12752 Jan 10 j 21:55	0°♌	
	-12752 Mar 03 j 03:38	0°♍	
desc. node	-12752 Mar 08 j 23:51	2°♍34'12	
retrograde	-12752 Apr 17 j 18:41	11°♍56'18	
min. Earth dist.	-12752 May 18 j 09:01	5°♍38'53	0.51805 AU
opposition	-12752 May 25 j 22:31	2°♍51'20	-4°08'37
greatest brilliancy	-12752 May 24 j 19:09	3°♍16'43	-2.1m
	-12752 Jun 03 j 00:06	30°℞♌	
direct	-12752 Jun 29 j 15:07	25°♌21'27	
	-12752 Jul 28 j 05:59	0°♍	
	-12752 Oct 02 j 14:53	0°♎	
	-12752 Nov 23 j 21:47	0°♏	
	-12751 Jan 12 j 04:27	0°♐	
	-12751 Feb 28 j 12:29	0°♑	
asc. node	-12751 Mar 11 j 16:27	7°♑15'49	
evening set	-12751 Mar 22 j 15:33	14°♑28'24	
max. Earth dist.	-12751 Apr 12 j 15:54	28°♑31'36	2.56129 AU
	-12751 Apr 14 j 20:08	0°♒	
conjunction	-12751 May 11 j 23:56	18°♒41'27	0°37'41
minimum elong	-12751 May 11 j 22:17	18°♒38'33	0°37'07
	-12751 May 28 j 00:53	0°♓	
morning rise	-12751 Jul 02 j 12:31	25°♓43'12	
	-12751 Jul 08 j 07:24	0°♈	
	-12751 Aug 17 j 03:04	0°♉	
	-12751 Sep 25 j 04:39	0°♊	
	-12751 Nov 03 j 08:47	0°♋	
	-12751 Dec 13 j 16:10	0°♌	
desc. node	-12750 Jan 24 j 18:04	29°♌27'41	
	-12750 Jan 25 j 13:25	0°♍	
	-12750 Mar 15 j 04:04	0°♎	
retrograde	-12750 May 28 j 21:27	25°♎36'15	
min. Earth dist.	-12750 Jul 03 j 09:33	17°♎25'00	0.61870 AU
opposition	-12750 Jul 07 j 16:23	15°♎42'28	-5°20'35
greatest brilliancy	-12750 Jul 06 j 22:05	16°♎00'45	-1.5m
direct	-12750 Aug 14 j 10:57	6°♎50'25	
	-12750 Oct 27 j 21:36	0°♏	
	-12750 Dec 21 j 21:28	0°♐	
asc. node	-12749 Jan 27 j 20:12	22°♐19'34	
	-12749 Feb 09 j 01:31	0°♑	
	-12749 Mar 26 j 22:14	0°♒	
evening set	-12749 May 08 j 01:38	29°♒16'55	
	-12749 May 09 j 01:44	0°♓	
max. Earth dist.	-12749 May 25 j 18:35	12°♓04'23	2.44717 AU
	-12749 Jun 18 j 23:37	0°♈	
conjunction	-12749 Jul 02 j 16:03	10°♈20'06	1°13'03
minimum elong	-12749 Jul 02 j 15:17	10°♈18'38	1°13'10
	-12749 Jul 28 j 07:11	0°♉	
morning rise	-12749 Aug 31 j 13:54	26°♉41'22	
	-12749 Sep 04 j 19:37	0°♊	
	-12749 Oct 13 j 10:03	0°♋	
	-12749 Nov 21 j 23:52	0°♌	
desc. node	-12749 Dec 12 j 09:49	14°♌59'05	
	-12748 Jan 02 j 10:45	0°♍	
	-12748 Feb 15 j 19:48	0°♎	
	-12748 Apr 05 j 06:14	0°♏	
	-12748 Jun 15 j 21:32	0°♐	
retrograde	-12748 Jul 02 j 18:48	1°♐42'13	
	-12748 Jul 18 j 16:09	30°℞♏	
opposition	-12748 Aug 11 j 13:30	21°♏57'56	-4°19'30
min. Earth dist.	-12748 Aug 11 j 01:37	22°♏09'55	0.66289 AU
greatest brilliancy	-12748 Aug 11 j 12:17	21°♏59'09	-1.4m
direct	-12748 Sep 20 j 08:54	12°♏19'11	
	-12748 Nov 22 j 07:21	0°♐	
asc. node	-12748 Dec 15 j 03:18	11°♐23'21	
	-12747 Jan 17 j 02:58	0°♑	
	-12747 Mar 05 j 20:10	0°♒	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12747 Apr 18 j 12:57	0°♓	
	-12747 May 29 j 12:26	0°♈	
evening set	-12747 Jul 03 j 18:15	26°♈55'38	
	-12747 Jul 07 j 17:18	0°♉	
	-12747 Aug 15 j 02:08	0°♊	
conjunction	-12747 Sep 03 j 17:01	15°♊21'19	0°40'10
minimum elong	-12747 Sep 03 j 20:11	15°♊27'29	0°40'56
	-12747 Sep 22 j 13:20	0°♋	
max. Earth dist.	-12747 Oct 05 j 17:34	10°♋08'20	2.39628 AU
desc. node	-12747 Oct 29 j 02:16	27°♋50'16	
	-12747 Oct 31 j 23:38	0°♌	
morning rise	-12747 Nov 06 j 14:59	4°♌11'58	
	-12747 Dec 12 j 02:53	0°♍	
	-12746 Jan 24 j 13:03	0°♎	
	-12746 Mar 11 j 19:37	0°♏	
	-12746 May 01 j 07:58	0°♐	
	-12746 Jul 04 j 19:03	0°♑	
retrograde	-12746 Aug 07 j 18:08	6°♑07'29	
	-12746 Sep 07 j 16:27	30°℞♐	
opposition	-12746 Sep 15 j 10:45	27°♐00'39	-1°58'58
greatest brilliancy	-12746 Sep 15 j 16:52	26°♐54'35	-1.5m
min. Earth dist.	-12746 Sep 18 j 16:39	25°♐43'22	0.64522 AU
direct	-12746 Oct 26 j 03:51	17°♐02'37	
asc. node	-12746 Nov 02 j 10:25	17°♐22'31	
	-12746 Dec 16 j 10:50	0°♑	
	-12745 Feb 10 j 11:29	0°♒	
	-12745 Mar 28 j 07:29	0°♓	
	-12745 May 09 j 01:12	0°♈	
	-12745 Jun 17 j 14:02	0°♉	
	-12745 Jul 26 j 04:00	0°♊	
	-12745 Sep 02 j 20:06	0°♋	
evening set	-12745 Sep 06 j 23:40	3°♋11'04	
desc. node	-12745 Sep 15 j 21:59	10°♋00'36	
	-12745 Oct 12 j 11:22	0°♌	
conjunction	-12745 Nov 05 j 13:58	17°♌41'22	-0°35'47
minimum elong	-12745 Nov 05 j 11:40	17°♌37'13	0°35'11
	-12745 Nov 22 j 17:58	0°♍	
max. Earth dist.	-12745 Dec 13 j 13:24	14°♍35'58	2.51387 AU
morning rise	-12744 Jan 01 j 13:44	27°♍38'16	
	-12744 Jan 05 j 01:25	0°♎	
	-12744 Feb 19 j 12:16	0°♏	
	-12744 Apr 07 j 03:16	0°♐	
	-12744 May 27 j 15:39	0°♑	
	-12744 Jul 25 j 05:08	0°♒	
retrograde	-12744 Sep 17 j 02:12	13°♒39'52	
asc. node	-12744 Sep 19 j 12:38	13°♒37'37	
opposition	-12744 Oct 23 j 13:28	5°♒37'59	1°36'11
greatest brilliancy	-12744 Oct 23 j 21:49	5°♒30'08	-1.8m
min. Earth dist.	-12744 Oct 30 j 04:01	3°♒08'41	0.56870 AU
	-12744 Nov 08 j 06:44	30°℞♑	
direct	-12744 Dec 02 j 12:30	26°♑03'23	
	-12744 Dec 28 j 03:03	0°♒	
	-12743 Feb 28 j 12:15	0°♓	
	-12743 Apr 14 j 14:33	0°♈	
	-12743 May 25 j 13:52	0°♉	
	-12743 Jul 04 j 01:19	0°♊	
desc. node	-12743 Aug 03 j 01:10	22°♊52'45	
	-12743 Aug 12 j 10:48	0°♋	
	-12743 Sep 21 j 17:17	0°♌	
evening set	-12743 Nov 01 j 22:02	29°♌34'28	
	-12743 Nov 02 j 12:34	0°♍	
	-12743 Dec 16 j 04:01	0°♎	
conjunction	-12743 Dec 25 j 03:30	6°♎01'14	-1°13'40
minimum elong	-12743 Dec 25 j 02:30	5°♎59'34	1°13'45

max. Earth dist.	-12742 Jan 14 j 23:19	19°♎48'39	2.61087 AU
	-12742 Jan 30 j 13:40	0°♏	
morning rise	-12742 Feb 13 j 23:19	9°♏19'04	
	-12742 Mar 18 j 08:13	0°♐	
	-12742 May 05 j 02:31	0°♑	
	-12742 Jun 23 j 00:07	0°♒	
asc. node	-12742 Aug 07 j 08:31	26°♒23'04	
	-12742 Aug 13 j 22:46	0°♓	
	-12742 Oct 25 j 18:06	0°♈	
retrograde	-12742 Nov 11 j 06:01	1°♈36'53	
	-12742 Nov 27 j 07:22	30°℞♓	
opposition	-12742 Dec 14 j 05:28	25°♓21'12	6°06'19
greatest brilliancy	-12742 Dec 15 j 17:39	24°♓52'00	-2.4m
min. Earth dist.	-12742 Dec 21 j 22:30	22°♓52'56	0.45223 AU
direct	-12741 Jan 19 j 06:03	17°♓47'52	
	-12741 Mar 06 j 05:02	0°♈	
	-12741 Apr 26 j 14:50	0°♉	
	-12741 Jun 08 j 22:27	0°♊	
desc. node	-12741 Jun 21 j 08:35	8°♊53'30	
	-12741 Jul 20 j 15:58	0°♋	
	-12741 Aug 31 j 15:08	0°♌	
	-12741 Oct 13 j 16:31	0°♍	
	-12741 Nov 27 j 04:37	0°♎	
evening set	-12741 Dec 18 j 02:52	13°♎47'17	
	-12740 Jan 12 j 00:51	0°♏	
conjunction	-12740 Feb 05 j 11:48	15°♏45'30	-1°08'13
minimum elong	-12740 Feb 05 j 13:04	15°♏47'32	1°08'47
max. Earth dist.	-12740 Feb 10 j 06:23	18°♏49'19	2.65875 AU
	-12740 Feb 27 j 17:03	0°♐	
morning rise	-12740 Mar 24 j 05:34	16°♐20'03	
	-12740 Apr 14 j 13:05	0°♑	
	-12740 May 31 j 00:17	0°♒	
asc. node	-12740 Jun 23 j 23:35	15°♒36'10	
	-12740 Jul 16 j 00:32	0°♓	
	-12740 Aug 31 j 01:12	0°♈	
	-12740 Oct 17 j 12:45	0°♉	
	-12740 Dec 11 j 23:57	0°♊	
retrograde	-12739 Jan 25 j 09:44	10°♊53'45	
min. Earth dist.	-12739 Feb 24 j 07:39	5°♊54'19	0.38587 AU
opposition	-12739 Feb 25 j 14:02	5°♊33'50	5°13'04
greatest brilliancy	-12739 Feb 25 j 13:34	5°♊34'09	-2.9m
direct	-12739 Mar 28 j 00:17	0°♊26'32	
desc. node	-12739 May 08 j 14:38	10°♊06'42	
	-12739 Jun 16 j 21:21	0°♋	
	-12739 Aug 05 j 00:16	0°♌	
	-12739 Sep 20 j 16:13	0°♍	
	-12739 Nov 06 j 05:42	0°♎	
	-12739 Dec 23 j 05:08	0°♏	
evening set	-12738 Jan 26 j 17:39	21°♏57'54	
	-12738 Feb 08 j 08:05	0°♐	
max. Earth dist.	-12738 Mar 05 j 20:07	16°♐20'07	2.65389 AU
conjunction	-12738 Mar 15 j 20:58	22°♐48'16	-0°33'40
minimum elong	-12738 Mar 15 j 22:14	22°♐50'19	0°34'28
	-12738 Mar 26 j 23:34	0°♑	
morning rise	-12738 May 02 j 02:11	23°♑42'33	
asc. node	-12738 May 11 j 13:48	0°♒01'45	
	-12738 May 11 j 12:45	0°♒	
	-12738 Jun 24 j 16:12	0°♓	
	-12738 Aug 06 j 11:13	0°♈	
	-12738 Sep 17 j 06:35	0°♉	
	-12738 Oct 28 j 18:47	0°♊	
	-12738 Dec 10 j 08:55	0°♋	
	-12737 Jan 26 j 23:17	0°♌	
desc. node	-12737 Mar 26 j 17:00	20°♌51'43	
retrograde	-12737 Mar 30 j 15:43	20°♌58'15	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

min. Earth dist.	-12737 Apr 28 j 08:47	15°♌29'24	0.46975 AU
opposition	-12737 May 06 j 09:23	12°♌43'17	-2°33'05
greatest brilliancy	-12737 May 05 j 14:02	13°♌00'02	-2.3m
direct	-12737 Jun 08 j 13:14	5°♌58'41	
	-12737 Aug 21 j 13:11	0°♍	
	-12737 Oct 14 j 07:33	0°♎	
	-12737 Dec 03 j 03:54	0°♏	
	-12736 Jan 20 j 12:52	0°♐	
evening set	-12736 Mar 06 j 11:42	29°♐18'45	
	-12736 Mar 07 j 13:07	0°♑	
asc. node	-12736 Mar 28 j 08:40	13°♑38'00	
max. Earth dist.	-12736 Mar 31 j 18:17	15°♑53'03	2.59673 AU
	-12736 Apr 21 j 20:06	0°♒	
conjunction	-12736 Apr 24 j 16:42	1°♒56'11	0°17'11
minimum elong	-12736 Apr 24 j 15:57	1°♒54'54	0°16'28
	-12736 Jun 04 j 04:53	0°♓	
morning rise	-12736 Jun 13 j 05:27	6°♓24'45	
	-12736 Jul 15 j 18:19	0°♈	
	-12736 Aug 24 j 22:40	0°♉	
	-12736 Oct 03 j 09:35	0°♊	
	-12736 Nov 12 j 00:07	0°♋	
	-12736 Dec 22 j 22:40	0°♌	
	-12735 Feb 05 j 06:28	0°♍	
desc. node	-12735 Feb 10 j 14:32	3°♍20'51	
	-12735 Apr 01 j 08:12	0°♎	
retrograde	-12735 May 13 j 22:20	10°♎08'56	
min. Earth dist.	-12735 Jun 16 j 15:01	2°♎38'18	0.58516 AU
greatest brilliancy	-12735 Jun 21 j 07:40	0°♎48'01	-1.7m
opposition	-12735 Jun 22 j 08:14	0°♎23'53	-5°14'29
	-12735 Jun 23 j 08:40	30°℞♍	
direct	-12735 Jul 29 j 00:38	21°♍58'47	
	-12735 Sep 06 j 08:15	0°♎	
	-12735 Nov 08 j 11:32	0°♏	
	-12735 Dec 30 j 07:30	0°♐	
asc. node	-12734 Feb 13 j 10:25	28°♐00'16	
	-12734 Feb 16 j 13:21	0°♑	
	-12734 Apr 03 j 03:06	0°♒	
evening set	-12734 Apr 18 j 22:58	10°♒49'23	
max. Earth dist.	-12734 May 05 j 17:54	22°♒32'20	2.49417 AU
	-12734 May 16 j 06:08	0°♓	
conjunction	-12734 Jun 11 j 02:17	18°♓44'32	1°04'24
minimum elong	-12734 Jun 11 j 00:16	18°♓40'50	1°04'14
	-12734 Jun 26 j 06:27	0°♈	
	-12734 Aug 04 j 17:47	0°♉	
morning rise	-12734 Aug 06 j 07:29	1°♉12'38	
	-12734 Sep 12 j 10:09	0°♊	
	-12734 Oct 21 j 04:19	0°♋	
	-12734 Nov 29 j 22:28	0°♌	
desc. node	-12734 Dec 29 j 06:25	21°♌15'45	
	-12733 Jan 10 j 17:04	0°♍	
	-12733 Feb 24 j 23:12	0°♎	
	-12733 Apr 18 j 21:07	0°♏	
retrograde	-12733 Jun 20 j 02:50	18°♏18'42	
min. Earth dist.	-12733 Jul 28 j 00:54	9°♏14'47	0.65297 AU
opposition	-12733 Jul 30 j 00:42	8°♏26'35	-4°53'55
greatest brilliancy	-12733 Jul 29 j 17:16	8°♏34'05	-1.4m
	-12733 Aug 26 j 04:01	30°℞♎	
direct	-12733 Sep 07 j 03:54	29°♎02'52	
	-12733 Sep 19 j 19:27	0°♏	
	-12733 Dec 05 j 20:55	0°♐	
asc. node	-12732 Jan 01 j 17:02	14°♐57'16	
	-12732 Jan 26 j 21:26	0°♑	
	-12732 Mar 13 j 15:44	0°♒	
	-12732 Apr 26 j 01:34	0°♓	
	-12732 Jun 05 j 23:22	0°♈	
evening set	-12732 Jun 09 j 17:20	2°♈49'18	
	-12732 Jul 15 j 04:24	0°♉	
max. Earth dist.	-12732 Jul 23 j 14:44	6°♉33'35	2.38697 AU
conjunction	-12732 Aug 08 j 17:06	19°♉08'32	1°03'07
minimum elong	-12732 Aug 08 j 19:59	19°♉14'12	1°03'42
	-12732 Aug 22 j 13:33	0°♊	
	-12732 Sep 30 j 00:45	0°♋	
morning rise	-12732 Oct 11 j 19:53	9°♋04'56	
	-12732 Nov 08 j 10:59	0°♌	
desc. node	-12732 Nov 14 j 21:34	4°♌47'37	
	-12732 Dec 19 j 15:00	0°♍	
	-12731 Feb 01 j 05:58	0°♎	
	-12731 Mar 20 j 05:43	0°♏	
	-12731 May 12 j 12:33	0°♐	
retrograde	-12731 Jul 24 j 12:00	22°♐50'46	
opposition	-12731 Sep 01 j 17:34	13°♐26'25	-3°01'52
greatest brilliancy	-12731 Sep 01 j 22:44	13°♐21'15	-1.4m
min. Earth dist.	-12731 Sep 03 j 12:28	12°♐43'27	0.65958 AU
direct	-12731 Oct 12 j 05:45	3°♐32'24	
asc. node	-12731 Nov 18 j 23:47	10°♐59'15	
	-12731 Dec 31 j 00:36	0°♑	
	-12730 Feb 20 j 00:00	0°♒	
	-12730 Apr 05 j 16:49	0°♓	
	-12730 May 17 j 00:58	0°♈	
	-12730 Jun 25 j 09:22	0°♉	
	-12730 Aug 02 j 20:03	0°♊	
evening set	-12730 Aug 12 j 16:24	7°♊42'08	
	-12730 Sep 10 j 08:51	0°♋	
desc. node	-12730 Oct 02 j 17:19	17°♋06'28	
conjunction	-12730 Oct 13 j 10:12	25°♋11'00	-0°08'03
minimum elong	-12730 Oct 13 j 09:34	25°♋09'50	0°07'18
behind sun begin	-12730 Oct 12 j 10:09	24°♋25'53	
behind sun end	-12730 Oct 14 j 08:59	25°♋53'44	
	-12730 Oct 19 j 20:41	0°♌	
max. Earth dist.	-12730 Nov 25 j 12:41	26°♌48'05	2.46586 AU
	-12730 Nov 30 j 00:14	0°♍	
morning rise	-12730 Dec 12 j 13:51	8°♍52'30	
	-12729 Jan 12 j 06:37	0°♎	
	-12729 Feb 26 j 21:23	0°♏	
	-12729 Apr 16 j 05:16	0°♐	
	-12729 Jun 08 j 03:58	0°♑	
retrograde	-12729 Sep 01 j 00:10	28°♑32'47	
asc. node	-12729 Oct 07 j 04:09	20°♑32'02	
opposition	-12729 Oct 08 j 11:51	20°♑01'30	0°03'34
greatest brilliancy	-12728 Mar 20 j 03:48	5°♓26'48	0.6m
min. Earth dist.	-12729 Oct 13 j 20:48	17°♑56'43	0.60507 AU
direct	-12729 Nov 18 j 00:06	10°♑10'23	
	-12728 Jan 21 j 11:24	0°♒	
	-12728 Mar 11 j 23:34	0°♓	
	-12728 Apr 24 j 03:20	0°♈	
	-12728 Jun 03 j 08:04	0°♉	
	-12728 Jul 12 j 08:13	0°♊	
desc. node	-12728 Aug 19 j 17:42	29°♊31'34	
	-12728 Aug 20 j 08:37	0°♋	
	-12728 Sep 29 j 07:10	0°♌	
evening set	-12728 Oct 12 j 04:24	9°♌27'03	
	-12728 Nov 09 j 19:35	0°♍	
conjunction	-12728 Dec 06 j 17:51	18°♍45'26	-1°04'48
minimum elong	-12728 Dec 06 j 15:48	18°♍41'55	1°04'37
	-12728 Dec 23 j 06:07	0°♎	
max. Earth dist.	-12727 Jan 03 j 07:55	7°♎26'31	2.57792 AU
morning rise	-12727 Jan 28 j 14:53	24°♎09'22	
	-12727 Feb 06 j 14:07	0°♏	
	-12727 Mar 25 j 13:23	0°♐	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12727 May 13 j 00:47	0°♉	
	-12727 Jul 02 j 22:26	0°♒	
asc. node	-12727 Aug 24 j 02:35	26°♒46'53	
	-12727 Aug 31 j 17:35	0°♓	
retrograde	-12727 Oct 18 j 08:33	11°♓10'42	
opposition	-12727 Nov 21 j 20:01	4°♓08'07	4°22'21
greatest brilliancy	-12727 Nov 22 j 22:40	3°♓44'46	-2.1m
min. Earth dist.	-12727 Nov 29 j 17:04	1°♓23'18	0.49942 AU
	-12727 Dec 03 j 22:29	30°♑℞♒	
direct	-12727 Dec 29 j 21:47	25°♒31'12	
	-12726 Jan 25 j 17:32	0°♓	
	-12726 Mar 26 j 05:44	0°♈	
	-12726 May 09 j 08:23	0°♉	
	-12726 Jun 19 j 08:54	0°♊	
desc. node	-12726 Jul 07 j 22:44	13°♊47'32	
	-12726 Jul 29 j 19:29	0°♋	
	-12726 Sep 08 j 21:29	0°♌	
	-12726 Oct 21 j 07:36	0°♍	
evening set	-12726 Dec 01 j 02:25	27°♍47'58	
	-12726 Dec 04 j 09:20	0°♎	
	-12725 Jan 18 j 23:38	0°♏	
conjunction	-12725 Jan 20 j 15:30	1°♏04'40	-1°14'31
minimum elong	-12725 Jan 20 j 16:07	1°♏05'40	1°14'56
max. Earth dist.	-12725 Jan 31 j 12:40	8°♏07'00	2.64621 AU
	-12725 Mar 06 j 15:01	0°♐	
morning rise	-12725 Mar 10 j 06:35	2°♐19'53	
	-12725 Apr 22 j 16:50	0°♑	
	-12725 Jun 08 j 20:08	0°♒	
asc. node	-12725 Jul 11 j 19:19	20°♒54'02	
	-12725 Jul 26 j 06:35	0°♓	
	-12725 Sep 13 j 09:16	0°♈	
	-12725 Nov 09 j 14:43	0°♉	
retrograde	-12725 Dec 26 j 08:22	11°♉23'33	
opposition	-12724 Jan 26 j 06:13	6°♉10'16	7°06'18
greatest brilliancy	-12724 Jan 27 j 06:01	5°♉53'45	-2.7m
min. Earth dist.	-12724 Jan 29 j 22:24	5°♉09'15	0.39509 AU
direct	-12724 Feb 27 j 05:57	0°♉31'07	
	-12724 May 15 j 19:56	0°♊	
desc. node	-12724 May 25 j 05:42	5°♊41'09	
	-12724 Jul 02 j 00:44	0°♋	
	-12724 Aug 15 j 17:34	0°♌	
	-12724 Sep 29 j 10:13	0°♍	
	-12724 Nov 13 j 22:33	0°♎	
	-12724 Dec 30 j 08:25	0°♏	
evening set	-12723 Jan 11 j 07:07	7°♏39'19	
	-12723 Feb 15 j 05:35	0°♐	
max. Earth dist.	-12723 Feb 24 j 05:23	5°♐45'23	2.66214 AU
conjunction	-12723 Feb 28 j 15:15	8°♐34'58	-0°49'43
minimum elong	-12723 Feb 28 j 16:49	8°♐37'28	0°50'27
	-12723 Apr 02 j 21:23	0°♑	
morning rise	-12723 Apr 16 j 18:19	9°♑00'46	
	-12723 May 18 j 16:56	0°♒	
asc. node	-12723 May 28 j 09:46	6°♒26'46	
	-12723 Jul 02 j 09:32	0°♓	
	-12723 Aug 15 j 01:24	0°♈	
	-12723 Sep 27 j 03:33	0°♉	
	-12723 Nov 09 j 15:14	0°♊	
	-12723 Dec 26 j 09:08	0°♋	
retrograde	-12722 Mar 08 j 14:02	26°♋25'55	
min. Earth dist.	-12722 Apr 05 j 05:11	21°♋34'44	0.42442 AU
opposition	-12722 Apr 12 j 06:09	19°♋22'11	0°00'47
greatest brilliancy	-12723 Apr 25 j 07:28	14°♑35'41	1.7m
desc. node	-12722 Apr 12 j 10:29	19°♋18'47	
direct	-12722 May 13 j 19:02	13°♋27'36	
	-12722 Jul 10 j 21:48	0°♌	

	-12722 Sep 04 j 00:08	0°♍	
	-12722 Oct 23 j 13:42	0°♎	
	-12722 Dec 10 j 22:25	0°♏	
	-12721 Jan 27 j 16:37	0°♐	
evening set	-12721 Feb 19 j 20:25	14°♐44'38	
	-12721 Mar 15 j 12:05	0°♑	
max. Earth dist.	-12721 Mar 21 j 19:26	4°♑06'31	2.62528 AU
conjunction	-12721 Apr 09 j 08:00	16°♑17'21	-0°03'40
minimum elong	-12721 Apr 09 j 08:10	16°♑17'37	0°04'27
behind sun begin	-12721 Apr 08 j 12:38	15°♑45'18	
behind sun end	-12721 Apr 10 j 03:42	16°♑49'58	
asc. node	-12721 Apr 15 j 02:47	20°♑07'42	
	-12721 Apr 29 j 20:26	0°♒	
morning rise	-12721 May 27 j 12:47	18°♒54'05	
	-12721 Jun 12 j 11:04	0°♓	
	-12721 Jul 24 j 09:33	0°♈	
	-12721 Sep 03 j 01:15	0°♉	
	-12721 Oct 13 j 01:12	0°♊	
	-12721 Nov 22 j 07:51	0°♋	
	-12720 Jan 03 j 09:44	0°♌	
	-12720 Feb 19 j 23:11	0°♍	
desc. node	-12720 Feb 28 j 08:59	4°♍33'42	
retrograde	-12720 Apr 27 j 18:48	23°♍04'54	
min. Earth dist.	-12720 May 29 j 12:31	16°♍19'48	0.54386 AU
greatest brilliancy	-12720 Jun 04 j 08:09	14°♍07'25	-1.9m
opposition	-12720 Jun 05 j 12:07	13°♍40'46	-4°42'44
direct	-12720 Jul 10 j 22:38	5°♍48'56	
	-12720 Sep 24 j 12:06	0°♎	
	-12720 Nov 18 j 03:39	0°♏	
	-12719 Jan 07 j 04:21	0°♐	
	-12719 Feb 23 j 19:34	0°♑	
asc. node	-12719 Mar 02 j 01:42	4°♑02'47	
evening set	-12719 Apr 01 j 06:08	23°♑57'02	
	-12719 Apr 10 j 05:35	0°♒	
max. Earth dist.	-12719 Apr 20 j 08:58	6°♒54'27	2.53913 AU
conjunction	-12719 May 22 j 10:10	29°♒17'03	0°48'33
minimum elong	-12719 May 22 j 08:09	29°♒13'28	0°48'07
	-12719 May 23 j 10:18	0°♓	
	-12719 Jul 03 j 14:55	0°♈	
morning rise	-12719 Jul 14 j 08:58	8°♈01'59	
	-12719 Aug 12 j 07:42	0°♉	
	-12719 Sep 20 j 05:35	0°♊	
	-12719 Oct 29 j 05:03	0°♋	
	-12719 Dec 08 j 05:48	0°♌	
desc. node	-12718 Jan 15 j 04:06	26°♌59'54	
	-12718 Jan 19 j 13:18	0°♍	
	-12718 Mar 07 j 09:41	0°♎	
	-12718 May 09 j 18:31	0°♏	
retrograde	-12718 Jun 06 j 04:26	4°♏24'11	
	-12718 Jul 01 j 12:59	30°♏℞♎	
min. Earth dist.	-12718 Jul 12 j 14:10	25°♎52'50	0.63348 AU
greatest brilliancy	-12718 Jul 15 j 11:16	24°♎43'30	-1.5m
opposition	-12718 Jul 16 j 01:44	24°♎28'59	-5°15'24
direct	-12718 Aug 23 j 08:49	15°♎24'23	
	-12718 Oct 18 j 12:57	0°♏	
	-12718 Dec 15 j 23:27	0°♐	
asc. node	-12717 Jan 18 j 06:05	19°♐39'07	
	-12717 Feb 03 j 23:42	0°♑	
	-12717 Mar 22 j 03:34	0°♒	
	-12717 May 04 j 09:38	0°♓	
evening set	-12717 May 19 j 17:05	11°♓03'03	
max. Earth dist.	-12717 Jun 09 j 16:46	26°♓32'17	2.42201 AU
	-12717 Jun 14 j 07:45	0°♈	
conjunction	-12717 Jul 15 j 20:09	23°♈59'46	1°13'13

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

minimum elong	-12717 Jul 15 j 20:39	24°♈00'45	1°13'32
	-12717 Jul 23 j 14:39	0°♉	
	-12717 Aug 31 j 01:53	0°♊	
morning rise	-12717 Sep 15 j 15:51	12°♊10'35	
	-12717 Oct 08 j 14:43	0°♋	
	-12717 Nov 17 j 02:26	0°♌	
desc. node	-12717 Dec 02 j 19:49	11°♌36'56	
	-12717 Dec 28 j 09:16	0°♍	
	-12716 Feb 10 j 08:47	0°♎	
	-12716 Mar 29 j 13:30	0°♏	
	-12716 May 28 j 02:27	0°♐	
retrograde	-12716 Jul 10 j 16:37	9°♐43'00	
opposition	-12716 Aug 19 j 07:15	0°♐04'40	-3°54'06
greatest brilliancy	-12716 Aug 19 j 08:49	0°♐03'05	-1.4m
	-12716 Aug 19 j 11:52	30°℞♏	
min. Earth dist.	-12716 Aug 19 j 14:37	29°♏57'14	0.66432 AU
direct	-12716 Sep 28 j 09:33	20°♏19'22	
	-12716 Nov 11 j 10:58	0°♐	
asc. node	-12716 Dec 05 j 13:15	10°♐33'21	
	-12715 Jan 10 j 22:59	0°♑	
	-12715 Feb 28 j 14:27	0°♒	
	-12715 Apr 13 j 15:10	0°♓	
	-12715 May 24 j 17:35	0°♈	
	-12715 Jul 02 j 23:37	0°♉	
evening set	-12715 Jul 17 j 23:52	11°♉41'41	
	-12715 Aug 10 j 08:47	0°♊	
	-12715 Sep 17 j 19:54	0°♋	
conjunction	-12715 Sep 18 j 09:08	0°♋25'34	0°23'19
minimum elong	-12715 Sep 18 j 11:13	0°♋29'36	0°24'07
desc. node	-12715 Oct 19 j 12:07	24°♋11'28	
	-12715 Oct 27 j 06:01	0°♌	
max. Earth dist.	-12715 Oct 30 j 07:10	2°♌16'24	2.41834 AU
morning rise	-12715 Nov 20 j 07:20	17°♌44'10	
	-12715 Dec 07 j 08:20	0°♍	
	-12714 Jan 19 j 15:41	0°♎	
	-12714 Mar 06 j 14:05	0°♏	
	-12714 Apr 25 j 00:58	0°♐	
	-12714 Jun 21 j 20:05	0°♑	
retrograde	-12714 Aug 16 j 08:03	14°♑23'34	
opposition	-12714 Sep 23 j 15:06	5°♑28'07	-1°17'16
greatest brilliancy	-12714 Sep 23 j 20:08	5°♑23'09	-1.5m
min. Earth dist.	-12714 Sep 27 j 15:12	3°♑53'24	0.63341 AU
	-12714 Oct 08 j 05:29	30°℞♐	
asc. node	-12714 Oct 23 j 19:01	26°♐15'10	
direct	-12714 Nov 03 j 08:05	25°♐30'30	
	-12714 Dec 01 j 12:53	0°♑	
	-12713 Feb 03 j 15:53	0°♒	
	-12713 Mar 22 j 16:39	0°♓	
	-12713 May 03 j 20:31	0°♈	
	-12713 Jun 12 j 14:19	0°♉	
	-12713 Jul 21 j 07:13	0°♊	
	-12713 Aug 29 j 01:15	0°♋	
desc. node	-12713 Sep 06 j 10:16	6°♋24'34	
evening set	-12713 Sep 20 j 14:05	17°♋09'17	
	-12713 Oct 07 j 17:59	0°♌	
conjunction	-12713 Nov 17 j 18:27	29°♌47'38	-0°48'30
minimum elong	-12713 Nov 17 j 15:56	29°♌43'09	0°48'03
	-12713 Nov 18 j 01:25	0°♍	
max. Earth dist.	-12713 Dec 22 j 04:54	23°♍46'26	2.53827 AU
	-12713 Dec 31 j 08:43	0°♎	
morning rise	-12712 Jan 12 j 04:14	7°♎56'37	
	-12712 Feb 14 j 17:12	0°♏	
	-12712 Apr 02 j 00:34	0°♐	
	-12712 May 21 j 14:02	0°♑	
	-12712 Jul 15 j 02:16	0°♒	
asc. node	-12712 Sep 09 j 20:15	21°♒33'22	
retrograde	-12712 Sep 27 j 18:21	23°♒24'39	
opposition	-12712 Nov 02 j 13:45	15°♒41'54	2°34'38
greatest brilliancy	-12712 Nov 03 j 04:13	15°♒28'32	-1.9m
min. Earth dist.	-12712 Nov 09 j 17:43	13°♒03'23	0.54534 AU
direct	-12712 Dec 12 j 00:05	6°♒22'57	
	-12711 Feb 19 j 14:18	0°♓	
	-12711 Apr 07 j 23:40	0°♈	
	-12711 May 19 j 17:44	0°♉	
	-12711 Jun 28 j 15:24	0°♊	
desc. node	-12711 Jul 24 j 14:18	19°♊39'22	
	-12711 Aug 07 j 07:45	0°♋	
	-12711 Sep 16 j 19:31	0°♌	
	-12711 Oct 28 j 18:30	0°♍	
evening set	-12711 Nov 12 j 21:50	10°♍31'29	
	-12711 Dec 11 j 12:14	0°♎	
conjunction	-12710 Jan 04 j 01:18	15°♎40'32	-1°15'39
minimum elong	-12710 Jan 04 j 00:56	15°♎39'56	1°15'53
max. Earth dist.	-12710 Jan 21 j 05:44	26°♎56'37	2.62561 AU
	-12710 Jan 25 j 22:23	0°♏	
morning rise	-12710 Feb 22 j 23:24	18°♏05'41	
	-12710 Mar 13 j 14:53	0°♐	
	-12710 Apr 30 j 01:49	0°♑	
	-12710 Jun 17 j 04:46	0°♒	
asc. node	-12710 Jul 28 j 15:28	25°♒06'54	
	-12710 Aug 05 j 23:11	0°♓	
	-12710 Oct 01 j 09:39	0°♈	
retrograde	-12710 Nov 26 j 15:34	15°♈09'05	
opposition	-12710 Dec 28 j 15:33	9°♈20'31	6°51'14
greatest brilliancy	-12710 Dec 30 j 04:54	8°♈52'06	-2.5m
min. Earth dist.	-12709 Jan 04 j 14:07	7°♈14'20	0.42777 AU
direct	-12709 Feb 01 j 07:07	2°♈29'49	
	-12709 Apr 16 j 09:56	0°♉	
	-12709 Jun 01 j 11:55	0°♊	
desc. node	-12709 Jun 11 j 20:09	7°♊08'35	
	-12709 Jul 14 j 10:05	0°♋	
	-12709 Aug 26 j 02:11	0°♌	
	-12709 Oct 08 j 14:23	0°♍	
	-12709 Nov 22 j 09:17	0°♎	
evening set	-12709 Dec 27 j 11:28	22°♎56'40	
	-12708 Jan 07 j 09:11	0°♏	
conjunction	-12708 Feb 14 j 08:55	24°♏24'27	-1°02'32
minimum elong	-12708 Feb 14 j 10:24	24°♏26'50	1°03'10
max. Earth dist.	-12708 Feb 15 j 21:01	25°♏22'14	2.66229 AU
	-12708 Feb 23 j 02:31	0°♐	
morning rise	-12708 Apr 01 j 18:40	24°♐48'02	
	-12708 Apr 09 j 20:30	0°♑	
	-12708 May 26 j 01:30	0°♒	
asc. node	-12708 Jun 14 j 06:05	12°♒36'16	
	-12708 Jul 10 j 12:47	0°♓	
	-12708 Aug 24 j 12:23	0°♈	
	-12708 Oct 08 j 20:10	0°♉	
	-12708 Nov 25 j 22:24	0°♊	
retrograde	-12707 Feb 10 j 19:11	28°♊11'28	
min. Earth dist.	-12707 Mar 11 j 03:15	23°♊28'16	0.39261 AU
opposition	-12707 Mar 14 j 23:16	22°♊23'31	3°23'35
greatest brilliancy	-12707 Mar 14 j 15:46	22°♊28'49	-2.8m
direct	-12707 Apr 14 j 12:15	17°♊09'18	
desc. node	-12707 Apr 29 j 02:29	18°♊30'08	
	-12707 Jun 02 j 18:07	0°♋	
	-12707 Jul 28 j 03:15	0°♌	
	-12707 Sep 14 j 14:44	0°♍	
	-12707 Oct 31 j 23:42	0°♎	
	-12707 Dec 18 j 08:52	0°♏	
	-12706 Feb 03 j 16:37	0°♐	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

evening set	-12706 Feb 04 j 13:08	0°♐32'40	
max. Earth dist.	-12706 Mar 11 j 13:36	22°♐59'29	2.64594 AU
	-12706 Mar 22 j 09:16	0°♑	
conjunction	-12706 Mar 24 j 16:53	1°♑30'22	-0°23'13
minimum elong	-12706 Mar 24 j 17:50	1°♑31'55	0°24'01
asc. node	-12706 May 01 j 20:53	26°♑39'26	
	-12706 May 06 j 20:43	0°♒	
morning rise	-12706 May 11 j 03:00	2°♒51'48	
	-12706 Jun 19 j 19:25	0°♓	
	-12706 Aug 01 j 06:29	0°♈	
	-12706 Sep 11 j 14:34	0°♉	
	-12706 Oct 22 j 10:56	0°♊	
	-12706 Dec 02 j 22:03	0°♋	
	-12705 Jan 16 j 10:26	0°♌	
desc. node	-12705 Mar 17 j 05:09	29°♌43'43	
	-12705 Mar 18 j 03:10	0°♍	
retrograde	-12705 Apr 10 j 21:11	3°♍39'29	
	-12705 May 03 j 16:32	30°℞♌	
min. Earth dist.	-12705 May 10 j 14:01	27°♌43'54	0.49642 AU
greatest brilliancy	-12705 May 17 j 09:26	25°♌17'04	-2.2m
opposition	-12705 May 18 j 10:41	24°♌54'13	-3°34'09
direct	-12705 Jun 21 j 11:20	17°♌43'41	
	-12705 Aug 09 j 20:50	0°♍	
	-12705 Oct 07 j 16:36	0°♎	
	-12705 Nov 27 j 19:13	0°♏	
	-12704 Jan 15 j 16:19	0°♐	
	-12704 Mar 02 j 21:33	0°♑	
evening set	-12704 Mar 15 j 16:12	8°♑19'17	
asc. node	-12704 Mar 18 j 16:56	10°♑18'36	
max. Earth dist.	-12704 Apr 07 j 12:22	23°♑26'56	2.57807 AU
	-12704 Apr 17 j 05:51	0°♒	
conjunction	-12704 May 04 j 10:35	11°♒44'33	0°29'05
minimum elong	-12704 May 04 j 09:18	11°♒42'20	0°28'26
	-12704 May 30 j 13:26	0°♓	
morning rise	-12704 Jun 23 j 23:10	17°♓31'25	
	-12704 Jul 10 j 23:44	0°♈	
	-12704 Aug 19 j 23:37	0°♉	
	-12704 Sep 28 j 05:17	0°♊	
	-12704 Nov 06 j 13:07	0°♋	
	-12704 Dec 17 j 01:19	0°♌	
	-12703 Jan 29 j 08:46	0°♍	
desc. node	-12703 Feb 01 j 00:25	1°♍44'17	
	-12703 Mar 20 j 16:09	0°♎	
retrograde	-12703 May 22 j 15:51	19°♎34'51	
min. Earth dist.	-12703 Jun 26 j 08:55	11°♎41'08	0.60469 AU
greatest brilliancy	-12703 Jun 30 j 10:05	10°♎04'50	-1.6m
opposition	-12703 Jul 01 j 07:27	9°♎43'38	-5°20'48
direct	-12703 Aug 07 j 14:24	1°♎03'07	
	-12703 Nov 01 j 08:33	0°♏	
	-12703 Dec 24 j 20:42	0°♐	
asc. node	-12702 Feb 03 j 19:44	25°♐02'54	
	-12702 Feb 11 j 15:41	0°♑	
	-12702 Mar 29 j 10:32	0°♒	
evening set	-12702 Apr 29 j 15:30	21°♒30'22	
	-12702 May 11 j 15:11	0°♓	
max. Earth dist.	-12702 May 16 j 07:12	3°♓20'34	2.46843 AU
	-12702 Jun 21 j 15:05	0°♈	
conjunction	-12702 Jun 23 j 01:23	1°♈04'13	1°10'26
minimum elong	-12702 Jun 22 j 23:54	1°♈01'27	1°10'26
	-12702 Jul 31 j 00:52	0°♉	
morning rise	-12702 Aug 20 j 06:52	15°♉42'16	
	-12702 Sep 07 j 15:07	0°♊	
	-12702 Oct 16 j 06:35	0°♋	
	-12702 Nov 24 j 21:10	0°♌	
desc. node	-12702 Dec 19 j 15:59	18°♌07'18	
	-12701 Jan 05 j 09:35	0°♍	
	-12701 Feb 19 j 00:12	0°♎	
	-12701 Apr 10 j 10:33	0°♏	
retrograde	-12701 Jun 28 j 00:58	26°♏29'28	
opposition	-12701 Aug 06 j 21:19	16°♏41'00	-4°35'25
min. Earth dist.	-12701 Aug 05 j 17:09	17°♏09'27	0.65961 AU
greatest brilliancy	-12701 Aug 06 j 17:27	16°♏44'54	-1.4m
direct	-12701 Sep 15 j 09:40	7°♏08'37	
	-12701 Nov 28 j 06:12	0°♐	
asc. node	-12701 Dec 23 j 02:12	13°♐05'02	
	-12700 Jan 21 j 06:51	0°♑	
	-12700 Mar 08 j 15:03	0°♒	
	-12700 Apr 21 j 06:11	0°♓	
	-12700 Jun 01 j 05:59	0°♈	
evening set	-12700 Jun 23 j 02:42	16°♈35'39	
	-12700 Jul 10 j 11:36	0°♉	
	-12700 Aug 17 j 20:46	0°♊	
conjunction	-12700 Aug 23 j 08:07	4°♊17'24	0°51'28
minimum elong	-12700 Aug 23 j 11:32	4°♊24'06	0°52'10
max. Earth dist.	-12700 Sep 05 j 21:42	14°♊54'25	2.38509 AU
	-12700 Sep 25 j 07:29	0°♋	
morning rise	-12700 Oct 26 j 15:25	23°♋57'03	
	-12700 Nov 03 j 16:46	0°♌	
desc. node	-12700 Nov 05 j 08:17	1°♌13'48	
	-12700 Dec 14 j 18:57	0°♍	
	-12699 Jan 27 j 05:09	0°♎	
	-12699 Mar 14 j 16:14	0°♏	
	-12699 May 05 j 00:53	0°♐	
	-12699 Jul 20 j 14:03	0°♑	
retrograde	-12699 Aug 01 j 15:55	0°♑52'17	
	-12699 Aug 13 j 03:48	30°℞♐	
opposition	-12699 Sep 09 j 14:16	21°♐37'02	-2°26'38
greatest brilliancy	-12699 Sep 09 j 20:15	21°♐31'04	-1.4m
min. Earth dist.	-12699 Sep 12 j 04:11	20°♐35'16	0.65279 AU
direct	-12699 Oct 20 j 05:18	11°♐40'10	
asc. node	-12699 Nov 09 j 09:29	14°♐01'33	
	-12699 Dec 22 j 13:03	0°♑	
	-12698 Feb 14 j 01:37	0°♒	
	-12698 Mar 31 j 10:24	0°♓	
	-12698 May 12 j 00:41	0°♈	
	-12698 Jun 20 j 12:01	0°♉	
	-12698 Jul 29 j 00:35	0°♊	
evening set	-12698 Aug 27 j 03:51	22°♊41'43	
	-12698 Sep 05 j 14:40	0°♋	
desc. node	-12698 Sep 23 j 03:29	13°♋25'42	
	-12698 Oct 15 j 03:30	0°♌	
conjunction	-12698 Oct 26 j 20:00	8°♌39'21	-0°24'34
minimum elong	-12698 Oct 26 j 18:13	8°♌36'05	0°23'54
	-12698 Nov 25 j 07:34	0°♍	
max. Earth dist.	-12698 Dec 06 j 09:06	7°♍49'30	2.49280 AU
morning rise	-12698 Dec 24 j 05:19	20°♍13'40	
	-12697 Jan 07 j 12:59	0°♎	
	-12697 Feb 21 j 23:57	0°♏	
	-12697 Apr 10 j 20:03	0°♐	
	-12697 Jun 01 j 03:28	0°♑	
	-12697 Aug 03 j 12:16	0°♒	
retrograde	-12697 Sep 10 j 13:39	7°♒27'50	
asc. node	-12697 Sep 27 j 13:10	5°♒34'30	
	-12697 Oct 15 j 09:34	30°℞♑	
opposition	-12697 Oct 17 j 12:20	29°♑11'52	0°55'20
greatest brilliancy	-12697 Oct 17 j 16:45	29°♑07'39	-1.7m
min. Earth dist.	-12697 Oct 23 j 13:47	26°♑52'58	0.58602 AU
direct	-12697 Nov 26 j 18:01	19°♑28'22	
	-12696 Jan 09 j 23:11	0°♒	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12696 Mar 05 j 04:05	0°♓	
	-12696 Apr 18 j 08:18	0°♈	
	-12696 May 28 j 22:59	0°♉	
	-12696 Jul 07 j 04:59	0°♊	
desc. node	-12696 Aug 10 j 05:13	26°♊03'42	
	-12696 Aug 15 j 09:27	0°♋	
	-12696 Sep 24 j 11:13	0°♌	
evening set	-12696 Oct 24 j 05:55	21°♌35'42	
	-12696 Nov 05 j 02:10	0°♍	
conjunction	-12696 Dec 17 j 11:10	29°♍14'36	-1°10'45
minimum elong	-12696 Dec 17 j 09:41	29°♍12'06	1°10'43
	-12696 Dec 18 j 14:04	0°♎	
max. Earth dist.	-12695 Jan 10 j 05:10	15°♎07'06	2.59715 AU
	-12695 Feb 01 j 21:52	0°♏	
morning rise	-12695 Feb 07 j 03:12	3°♏23'23	
	-12695 Mar 20 j 17:30	0°♐	
	-12695 May 07 j 17:51	0°♑	
	-12695 Jun 26 j 08:45	0°♒	
asc. node	-12695 Aug 14 j 10:04	27°♒21'17	
	-12695 Aug 19 j 15:05	0°♓	
retrograde	-12695 Oct 31 j 09:12	22°♓47'19	
opposition	-12695 Dec 04 j 01:48	16°♓09'56	5°22'54
greatest brilliancy	-12695 Dec 05 j 10:41	15°♓42'20	-2.3m
min. Earth dist.	-12695 Dec 12 j 01:02	13°♓30'23	0.47330 AU
direct	-12694 Jan 10 j 02:57	8°♓05'31	
	-12694 Mar 15 j 23:06	0°♈	
	-12694 May 02 j 01:10	0°♉	
	-12694 Jun 13 j 03:43	0°♊	
desc. node	-12694 Jun 28 j 12:13	11°♊12'19	
	-12694 Jul 24 j 05:02	0°♋	
	-12694 Sep 03 j 16:46	0°♌	
	-12694 Oct 16 j 09:43	0°♍	
	-12694 Nov 29 j 15:45	0°♎	
evening set	-12694 Dec 10 j 23:58	7°♎31'33	
	-12693 Jan 14 j 08:23	0°♏	
conjunction	-12693 Jan 29 j 20:28	10°♏01'09	-1°11'24
minimum elong	-12693 Jan 29 j 21:30	10°♏02'49	1°11'56
max. Earth dist.	-12693 Feb 06 j 08:16	14°♏50'27	2.65424 AU
	-12693 Mar 01 j 23:44	0°♐	
morning rise	-12693 Mar 18 j 22:17	10°♐49'50	
	-12693 Apr 17 j 22:01	0°♑	
	-12693 Jun 03 j 16:00	0°♒	
asc. node	-12693 Jul 02 j 01:38	18°♒17'55	
	-12693 Jul 20 j 05:43	0°♓	
	-12693 Sep 05 j 08:47	0°♈	
	-12693 Oct 25 j 12:23	0°♉	
retrograde	-12692 Jan 12 j 22:33	28°♉09'37	
opposition	-12692 Feb 12 j 18:31	22°♉59'50	6°18'31
greatest brilliancy	-12692 Feb 13 j 04:28	22°♉53'10	-2.8m
min. Earth dist.	-12692 Feb 13 j 19:25	22°♉43'09	0.38652 AU
direct	-12692 Mar 14 j 14:22	17°♉45'35	
	-12692 Apr 30 j 17:13	0°♊	
desc. node	-12692 May 15 j 18:41	7°♊26'04	
	-12692 Jun 23 j 13:45	0°♋	
	-12692 Aug 09 j 06:12	0°♌	
	-12692 Sep 23 j 21:44	0°♍	
	-12692 Nov 08 j 22:09	0°♎	
	-12692 Dec 25 j 14:36	0°♏	
evening set	-12691 Jan 20 j 05:10	16°♏20'36	
	-12691 Feb 10 j 14:43	0°♐	
max. Earth dist.	-12691 Mar 01 j 21:02	12°♐20'01	2.65863 AU
conjunction	-12691 Mar 09 j 09:38	17°♐10'04	-0°40'46
minimum elong	-12691 Mar 09 j 11:04	17°♐12'22	0°41'32
	-12691 Mar 29 j 06:31	0°♑	
morning rise	-12691 Apr 25 j 12:22	17°♑47'31	
	-12691 May 13 j 23:08	0°♒	
asc. node	-12691 May 18 j 15:47	3°♒07'48	
	-12691 Jun 27 j 08:47	0°♓	
	-12691 Aug 09 j 12:59	0°♈	
	-12691 Sep 20 j 20:39	0°♉	
	-12691 Nov 02 j 02:07	0°♊	
	-12691 Dec 15 j 22:19	0°♋	
	-12690 Feb 06 j 03:31	0°♌	
retrograde	-12690 Mar 21 j 13:46	11°♌11'57	
desc. node	-12690 Apr 02 j 21:55	10°♌07'22	
min. Earth dist.	-12690 Apr 18 j 14:24	6°♌02'32	0.44844 AU
opposition	-12690 Apr 26 j 10:22	3°♌26'51	-1°34'27
greatest brilliancy	-12690 Apr 25 j 22:11	3°♌36'59	-2.5m
	-12690 May 07 j 16:20	30°℞♋	
direct	-12690 May 28 j 21:03	27°♋04'36	
	-12690 Jun 19 j 23:45	0°♌	
	-12690 Aug 27 j 02:24	0°♍	
	-12690 Oct 17 j 16:42	0°♎	
	-12690 Dec 05 j 19:59	0°♏	
	-12689 Jan 22 j 22:21	0°♐	
evening set	-12689 Feb 28 j 19:01	23°♐28'54	
	-12689 Mar 10 j 20:53	0°♑	
max. Earth dist.	-12689 Mar 28 j 01:45	11°♑14'31	2.61048 AU
asc. node	-12689 Apr 05 j 09:53	16°♑45'00	
conjunction	-12689 Apr 18 j 14:57	25°♑33'27	0°08'20
minimum elong	-12689 Apr 18 j 14:37	25°♑32'53	0°07'36
behind sun begin	-12689 Apr 17 j 20:24	25°♑02'22	
behind sun end	-12689 Apr 19 j 08:49	26°♑03'24	
	-12689 Apr 25 j 05:24	0°♒	
morning rise	-12689 Jun 06 j 11:14	29°♒06'26	
	-12689 Jun 07 j 17:41	0°♓	
	-12689 Jul 19 j 11:56	0°♈	
	-12689 Aug 28 j 21:36	0°♉	
	-12689 Oct 07 j 14:09	0°♊	
	-12689 Nov 16 j 10:32	0°♋	
	-12689 Dec 27 j 17:47	0°♌	
	-12688 Feb 10 j 23:58	0°♍	
desc. node	-12688 Feb 18 j 20:30	4°♍43'10	
	-12688 Apr 13 j 16:07	0°♎	
retrograde	-12688 May 07 j 05:11	3°♎28'31	
	-12688 May 29 j 09:19	30°℞♍	
min. Earth dist.	-12688 Jun 09 j 01:12	26°♍17'38	0.56743 AU
greatest brilliancy	-12688 Jun 14 j 05:54	24°♍16'54	-1.8m
opposition	-12688 Jun 15 j 08:38	23°♍50'57	-5°04'53
direct	-12688 Jul 21 j 11:40	15°♍40'02	
	-12688 Sep 14 j 11:33	0°♎	
	-12688 Nov 12 j 00:25	0°♏	
	-12687 Jan 02 j 00:40	0°♐	
	-12687 Feb 19 j 00:41	0°♑	
asc. node	-12687 Feb 20 j 10:23	0°♑54'05	
	-12687 Apr 05 j 13:54	0°♒	
evening set	-12687 Apr 11 j 05:26	3°♒50'00	
max. Earth dist.	-12687 Apr 28 j 19:37	15°♒56'26	2.51481 AU
	-12687 May 18 j 18:45	0°♓	
conjunction	-12687 Jun 02 j 09:54	10°♓30'55	0°58'16
minimum elong	-12687 Jun 02 j 07:45	10°♓27'02	0°57'58
	-12687 Jun 28 j 21:55	0°♈	
morning rise	-12687 Jul 27 j 01:47	21°♈14'53	
	-12687 Aug 07 j 12:07	0°♉	
	-12687 Sep 15 j 07:03	0°♊	
	-12687 Oct 24 j 03:07	0°♋	
	-12687 Dec 02 j 22:55	0°♌	
desc. node	-12686 Jan 05 j 13:15	24°♌12'27	
	-12686 Jan 13 j 20:58	0°♍	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12686 Feb 28 j 13:58	0°♎	
	-12686 Apr 24 j 23:04	0°♏	
retrograde	-12686 Jun 14 j 06:19	12°♏53'40	
min. Earth dist.	-12686 Jul 21 j 12:15	4°♏03'59	0.64541 AU
opposition	-12686 Jul 24 j 04:26	2°♏59'20	-5°04'45
greatest brilliancy	-12686 Jul 23 j 17:53	3°♏09'58	-1.4m
	-12686 Jul 31 j 19:37	30°℞♎	
direct	-12686 Aug 31 j 23:04	23°♎43'45	
	-12686 Oct 05 j 12:42	0°♏	
	-12686 Dec 09 j 15:01	0°♐	
asc. node	-12685 Jan 08 j 16:26	17°♐12'42	
	-12685 Jan 29 j 18:12	0°♑	
	-12685 Mar 17 j 07:24	0°♒	
	-12685 Apr 29 j 16:47	0°♓	
evening set	-12685 May 31 j 22:29	23°♓29'22	
	-12685 Jun 09 j 15:41	0°♈	
max. Earth dist.	-12685 Jun 30 j 16:14	15°♈56'33	2.39954 AU
	-12685 Jul 18 j 21:56	0°♉	
conjunction	-12685 Jul 29 j 16:34	8°♉22'37	1°09'11
minimum elong	-12685 Jul 29 j 18:31	8°♉26'25	1°09'39
	-12685 Aug 26 j 08:02	0°♊	
morning rise	-12685 Oct 01 j 01:42	27°♊52'46	
	-12685 Oct 03 j 19:27	0°♋	
	-12685 Nov 12 j 05:16	0°♌	
desc. node	-12685 Nov 23 j 03:55	8°♌07'31	
	-12685 Dec 23 j 09:08	0°♍	
	-12684 Feb 05 j 01:33	0°♎	
	-12684 Mar 23 j 09:46	0°♏	
	-12684 May 17 j 10:13	0°♐	
retrograde	-12684 Jul 18 j 15:08	17°♐41'25	
opposition	-12684 Aug 27 j 01:02	8°♐10'15	-3°25'02
greatest brilliancy	-12684 Aug 27 j 04:49	8°♐06'27	-1.4m
min. Earth dist.	-12684 Aug 28 j 03:39	7°♐43'30	0.66295 AU
	-12684 Sep 20 j 12:12	30°℞♏	
direct	-12684 Oct 06 j 09:05	28°♏19'44	
	-12684 Oct 23 j 07:42	0°♐	
asc. node	-12684 Nov 25 j 23:16	10°♐40'51	
	-12683 Jan 04 j 05:26	0°♑	
	-12683 Feb 23 j 04:04	0°♒	
	-12683 Apr 08 j 14:58	0°♓	
	-12683 May 19 j 21:40	0°♈	
	-12683 Jun 28 j 05:30	0°♉	
evening set	-12683 Aug 01 j 10:47	26°♉42'40	
	-12683 Aug 05 j 15:33	0°♊	
	-12683 Sep 13 j 03:02	0°♋	
conjunction	-12683 Oct 02 j 17:38	15°♋03'06	0°05'30
minimum elong	-12683 Oct 02 j 18:11	15°♋04'09	0°06'17
behind sun begin	-12683 Oct 01 j 17:32	14°♋17'13	
behind sun end	-12683 Oct 03 j 18:50	15°♋51'03	
desc. node	-12683 Oct 09 j 23:10	20°♋32'26	
	-12683 Oct 22 j 12:57	0°♌	
max. Earth dist.	-12683 Nov 15 j 13:16	17°♌42'53	2.44393 AU
	-12683 Dec 02 j 14:36	0°♍	
morning rise	-12683 Dec 03 j 06:15	0°♍27'51	
	-12682 Jan 14 j 19:40	0°♎	
	-12682 Mar 01 j 11:53	0°♏	
	-12682 Apr 19 j 04:05	0°♐	
	-12682 Jun 12 j 13:53	0°♑	
retrograde	-12682 Aug 25 j 04:25	22°♑49'53	
opposition	-12682 Oct 02 j 01:11	14°♑07'04	-0°32'02
greatest brilliancy	-12682 Oct 02 j 03:48	14°♑04'30	-1.6m
min. Earth dist.	-12682 Oct 06 j 19:14	12°♑15'38	0.61892 AU
asc. node	-12682 Oct 14 j 04:19	9°♑31'08	
direct	-12682 Nov 11 j 15:58	4°♑12'04	
	-12681 Jan 26 j 22:40	0°♒	
	-12681 Mar 16 j 18:01	0°♓	
	-12681 Apr 28 j 11:39	0°♈	
	-12681 Jun 07 j 11:44	0°♉	
	-12681 Jul 16 j 08:35	0°♊	
	-12681 Aug 24 j 05:34	0°♋	
desc. node	-12681 Aug 27 j 22:41	2°♋50'22	
evening set	-12681 Oct 03 j 15:07	0°♌27'12	
	-12681 Oct 03 j 00:26	0°♌	
	-12681 Nov 13 j 09:22	0°♍	
conjunction	-12681 Nov 29 j 08:53	11°♍13'56	-0°58'45
minimum elong	-12681 Nov 29 j 06:31	11°♍09'49	0°58'27
	-12681 Dec 26 j 16:55	0°♎	
max. Earth dist.	-12681 Dec 30 j 01:06	2°♎15'26	2.56083 AU
morning rise	-12680 Jan 22 j 07:53	17°♎47'15	
	-12680 Feb 09 j 23:47	0°♏	
	-12680 Mar 28 j 01:05	0°♐	
	-12680 May 15 j 21:30	0°♑	
	-12680 Jul 06 j 23:59	0°♒	
asc. node	-12680 Aug 31 j 03:54	25°♒49'48	
	-12680 Sep 13 j 11:06	0°♓	
retrograde	-12680 Oct 09 j 01:51	3°♓39'21	
	-12680 Nov 02 j 01:39	30°℞♒	
opposition	-12680 Nov 13 j 04:53	26°♒17'43	3°35'16
greatest brilliancy	-12680 Nov 14 j 02:10	25°♒58'34	-2.0m
min. Earth dist.	-12680 Nov 20 j 20:19	23°♒33'25	0.52058 AU
direct	-12680 Dec 21 j 23:12	17°♒19'32	
	-12679 Feb 07 j 19:13	0°♓	
	-12679 Mar 31 j 15:40	0°♈	
	-12679 May 13 j 13:14	0°♉	
	-12679 Jun 23 j 00:13	0°♊	
desc. node	-12679 Jul 15 j 02:51	16°♊35'16	
	-12679 Aug 02 j 01:25	0°♋	
	-12679 Sep 11 j 19:33	0°♌	
	-12679 Oct 23 j 23:22	0°♍	
evening set	-12679 Nov 23 j 11:07	20°♍58'32	
	-12679 Dec 06 j 20:08	0°♎	
conjunction	-12678 Jan 13 j 16:22	25°♎01'37	-1°15'39
minimum elong	-12678 Jan 13 j 16:35	25°♎02'00	1°15'59
	-12678 Jan 21 j 07:34	0°♏	
max. Earth dist.	-12678 Jan 27 j 06:50	3°♏52'29	2.63796 AU
morning rise	-12678 Mar 03 j 20:04	26°♏44'23	
	-12678 Mar 08 j 22:36	0°♐	
	-12678 Apr 25 j 03:48	0°♑	
	-12678 Jun 11 j 16:25	0°♒	
asc. node	-12678 Jul 18 j 21:16	23°♒11'46	
	-12678 Jul 29 j 23:21	0°♓	
	-12678 Sep 19 j 07:14	0°♈	
retrograde	-12678 Dec 13 j 00:25	29°♈51'11	
opposition	-12677 Jan 13 j 06:53	24°♈25'14	7°12'42
greatest brilliancy	-12677 Jan 14 j 15:19	24°♈01'50	-2.7m
min. Earth dist.	-12677 Jan 18 j 16:51	22°♈51'46	0.40752 AU
direct	-12677 Feb 15 j 10:40	18°♈16'17	
	-12677 Apr 01 j 10:20	0°♉	
	-12677 May 23 j 21:21	0°♊	
desc. node	-12677 Jun 02 j 09:34	6°♊11'49	
	-12677 Jul 07 j 16:49	0°♋	
	-12677 Aug 20 j 07:46	0°♌	
	-12677 Oct 03 j 09:33	0°♍	
	-12677 Nov 17 j 12:31	0°♎	
	-12676 Jan 02 j 17:07	0°♏	
evening set	-12676 Jan 05 j 15:01	1°♏52'29	
	-12676 Feb 18 j 12:07	0°♐	
max. Earth dist.	-12676 Feb 21 j 10:46	1°♐53'03	2.66321 AU
conjunction	-12676 Feb 23 j 04:15	2°♐59'26	-0°55'32

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

minimum elong	-12676 Feb 23 j 05:50	3°♐01'57	0°56'14
	-12676 Apr 05 j 04:53	0°♑	
morning rise	-12676 Apr 10 j 09:06	3°♑20'52	
	-12676 May 21 j 04:49	0°♒	
asc. node	-12676 Jun 04 j 11:44	9°♒27'04	
	-12676 Jul 05 j 05:24	0°♓	
	-12676 Aug 18 j 10:15	0°♈	
	-12676 Oct 01 j 08:09	0°♉	
	-12676 Nov 15 j 06:57	0°♊	
	-12675 Jan 05 j 08:08	0°♋	
retrograde	-12675 Feb 25 j 20:31	14°♋54'46	
min. Earth dist.	-12675 Mar 25 j 12:06	10°♋12'31	0.40774 AU
opposition	-12675 Mar 31 j 10:04	8°♋26'33	1°25'33
greatest brilliancy	-12675 Mar 31 j 03:57	8°♋31'07	-2.8m
desc. node	-12675 Apr 19 j 15:06	3°♋47'11	
direct	-12675 May 01 j 08:35	2°♋52'45	
	-12675 Jul 18 j 17:18	0°♌	
	-12675 Sep 08 j 02:56	0°♍	
	-12675 Oct 26 j 13:56	0°♎	
	-12675 Dec 13 j 11:14	0°♏	
	-12674 Jan 30 j 00:35	0°♐	
evening set	-12674 Feb 13 j 07:38	9°♐05'47	
max. Earth dist.	-12674 Mar 17 j 10:19	29°♐45'35	2.63554 AU
	-12674 Mar 17 j 19:12	0°♑	
conjunction	-12674 Apr 02 j 14:43	10°♑19'29	-0°12'08
minimum elong	-12674 Apr 02 j 15:16	10°♑20'23	0°12'55
behind sun begin	-12674 Apr 02 j 03:24	10°♑00'56	
behind sun end	-12674 Apr 03 j 03:07	10°♑39'50	
asc. node	-12674 Apr 22 j 04:10	23°♑15'52	
	-12674 May 02 j 05:43	0°♒	
morning rise	-12674 May 20 j 09:33	12°♒18'11	
	-12674 Jun 15 j 00:32	0°♓	
	-12674 Jul 27 j 05:02	0°♈	
	-12674 Sep 06 j 03:43	0°♉	
	-12674 Oct 16 j 11:44	0°♊	
	-12674 Nov 26 j 04:23	0°♋	
	-12673 Jan 08 j 00:08	0°♌	
	-12673 Feb 27 j 07:05	0°♍	
desc. node	-12673 Mar 07 j 14:35	3°♍57'37	
retrograde	-12673 Apr 21 j 09:00	15°♍28'22	
min. Earth dist.	-12673 May 22 j 05:08	9°♍04'39	0.52321 AU
greatest brilliancy	-12673 May 28 j 11:24	6°♍44'55	-2.0m
opposition	-12673 May 29 j 15:20	6°♍18'48	-4°18'59
	-12673 Jun 19 j 19:07	30°℞♌	
direct	-12673 Jul 03 j 10:42	28°♌44'22	
	-12673 Jul 17 j 18:36	0°♍	
	-12673 Sep 30 j 07:30	0°♎	
	-12673 Nov 22 j 05:17	0°♏	
	-12672 Jan 10 j 17:30	0°♐	
	-12672 Feb 27 j 04:55	0°♑	
asc. node	-12672 Mar 09 j 02:05	7°♑03'33	
evening set	-12672 Mar 25 j 01:10	17°♑33'18	
	-12672 Apr 12 j 15:19	0°♒	
max. Earth dist.	-12672 Apr 14 j 17:16	1°♒24'33	2.55748 AU
conjunction	-12672 May 14 j 12:15	21°♒56'34	0°40'30
minimum elong	-12672 May 14 j 10:31	21°♒53'30	0°39'58
	-12672 May 25 j 22:22	0°♓	
morning rise	-12672 Jul 05 j 06:24	29°♓15'26	
	-12672 Jul 06 j 06:29	0°♈	
	-12672 Aug 15 j 02:49	0°♉	
	-12672 Sep 23 j 04:02	0°♊	
	-12672 Nov 01 j 06:29	0°♋	
	-12672 Dec 11 j 10:25	0°♌	
desc. node	-12671 Jan 22 j 10:02	29°♌35'10	
	-12671 Jan 23 j 00:45	0°♍	
	-12671 Mar 11 j 20:19	0°♎	
retrograde	-12671 May 31 j 02:57	28°♎39'44	
min. Earth dist.	-12671 Jul 05 j 18:47	20°♎24'50	0.62176 AU
opposition	-12671 Jul 09 j 22:39	18°♎45'04	-5°20'00
greatest brilliancy	-12671 Jul 09 j 04:57	19°♎02'45	-1.5m
direct	-12671 Aug 16 j 19:24	9°♎50'39	
	-12671 Oct 24 j 02:46	0°♏	
	-12671 Dec 19 j 03:18	0°♐	
asc. node	-12670 Jan 25 j 05:26	22°♐14'56	
	-12670 Feb 06 j 15:18	0°♑	
	-12670 Mar 24 j 16:31	0°♒	
	-12670 May 06 j 23:08	0°♓	
evening set	-12670 May 10 j 19:51	2°♓45'48	
max. Earth dist.	-12670 May 28 j 17:46	15°♓45'10	2.44245 AU
	-12670 Jun 16 j 23:10	0°♈	
conjunction	-12670 Jul 05 j 16:07	14°♈08'13	1°13'24
minimum elong	-12670 Jul 05 j 15:38	14°♈07'17	1°13'36
	-12670 Jul 26 j 07:56	0°♉	
	-12670 Sep 02 j 20:38	0°♊	
morning rise	-12670 Sep 03 j 22:53	0°♊51'16	
	-12670 Oct 11 j 10:16	0°♋	
	-12670 Nov 19 j 22:09	0°♌	
desc. node	-12670 Dec 10 j 02:13	14°♌51'02	
	-12670 Dec 31 j 05:40	0°♍	
	-12669 Feb 13 j 08:46	0°♎	
	-12669 Apr 03 j 05:08	0°♏	
	-12669 Jun 07 j 09:00	0°♐	
retrograde	-12669 Jul 05 j 22:14	4°♐34'13	
	-12669 Aug 01 j 02:23	30°℞♏	
opposition	-12669 Aug 14 j 15:49	24°♏50'42	-4°12'44
min. Earth dist.	-12669 Aug 14 j 06:48	24°♏59'48	0.66341 AU
greatest brilliancy	-12669 Aug 14 j 15:06	24°♏51'25	-1.4m
direct	-12669 Sep 23 j 12:22	15°♏10'46	
	-12669 Nov 19 j 03:19	0°♐	
asc. node	-12669 Dec 13 j 12:11	11°♐44'55	
	-12668 Jan 15 j 08:58	0°♑	
	-12668 Mar 03 j 11:44	0°♒	
	-12668 Apr 16 j 09:25	0°♓	
	-12668 May 27 j 11:48	0°♈	
	-12668 Jul 05 j 18:09	0°♉	
evening set	-12668 Jul 06 j 23:57	0°♉57'49	
	-12668 Aug 13 j 03:21	0°♊	
conjunction	-12668 Sep 07 j 02:09	19°♊31'18	0°36'24
minimum elong	-12668 Sep 07 j 05:09	19°♊37'08	0°37'09
	-12668 Sep 20 j 13:55	0°♋	
max. Earth dist.	-12668 Oct 11 j 21:04	16°♋21'29	2.39979 AU
desc. node	-12668 Oct 26 j 18:14	27°♋36'44	
	-12668 Oct 29 j 22:41	0°♌	
morning rise	-12668 Nov 09 j 21:34	8°♌08'55	
	-12667 Jan 22 j 06:24	0°♍	
	-12667 Mar 09 j 07:48	0°♎	
	-12667 Apr 28 j 08:37	0°♏	
	-12667 Jun 28 j 18:26	0°♐	
retrograde	-12667 Aug 10 j 00:21	9°♐01'09	
opposition	-12667 Sep 17 j 14:40	29°♐56'11	-1°47'43
	-12667 Sep 17 j 10:49	30°℞♐	
greatest brilliancy	-12667 Sep 17 j 20:27	29°♐50'27	-1.5m
min. Earth dist.	-12667 Sep 20 j 23:02	28°♐36'28	0.64330 AU
direct	-12667 Oct 28 j 07:18	19°♐58'13	
asc. node	-12667 Oct 30 j 18:30	20°♐00'32	
	-12667 Dec 11 j 13:28	0°♑	
	-12666 Feb 07 j 16:32	0°♒	
	-12666 Mar 25 j 23:48	0°♓	
	-12666 May 06 j 22:38	0°♈	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12666 Jun 15 j 13:57	0°♉		
	-12666 Jul 24 j 04:46	0°♊		
	-12666 Aug 31 j 20:28	0°♋		
evening set	-12666 Sep 10 j 03:59	7°♋08'45		
desc. node	-12666 Sep 13 j 15:25	9°♋48'06		
	-12666 Oct 10 j 10:20	0°♌		
conjunction	-12666 Nov 08 j 13:02	21°♌20'40	-0°39'04	
minimum elong	-12666 Nov 08 j 10:37	21°♌16'19	0°38'33	
	-12666 Nov 20 j 14:57	0°♍		
max. Earth dist.	-12666 Dec 15 j 23:26	17°♍46'53	2.51842 AU	
	-12665 Jan 02 j 19:59	0°♎		
morning rise	-12665 Jan 04 j 06:16	0°♎58'03		
	-12665 Feb 17 j 04:03	0°♏		
	-12665 Apr 05 j 15:01	0°♐		
	-12665 May 25 j 18:36	0°♑		
	-12665 Jul 21 j 17:31	0°♒		
asc. node	-12665 Sep 17 j 20:48	16°♒46'18		
retrograde	-12665 Sep 20 j 16:57	16°♒49'20		
opposition	-12665 Oct 27 j 01:31	8°♒50'48	1°50'59	
greatest brilliancy	-12665 Oct 27 j 11:13	8°♒41'41	-1.8m	
min. Earth dist.	-12665 Nov 02 j 18:10	6°♒20'08	0.56443 AU	
	-12665 Nov 25 j 23:22	30°℞♑		
direct	-12665 Dec 05 j 21:47	29°♑19'14		
	-12665 Dec 16 j 04:10	0°♒		
	-12664 Feb 26 j 08:44	0°♓		
	-12664 Apr 12 j 03:15	0°♈		
	-12664 May 23 j 08:34	0°♉		
	-12664 Jul 01 j 22:40	0°♊		
desc. node	-12664 Jul 31 j 18:26	22°♊43'36		
	-12664 Aug 10 j 08:56	0°♋		
	-12664 Sep 19 j 14:58	0°♌		
	-12664 Oct 31 j 08:59	0°♍		
evening set	-12664 Nov 04 j 15:37	3°♍00'06		
	-12664 Dec 13 j 22:43	0°♎		
conjunction	-12664 Dec 27 j 16:14	9°♎12'05	-1°14'20	
minimum elong	-12664 Dec 27 j 15:24	9°♎10'42	1°14'27	
max. Earth dist.	-12663 Jan 16 j 17:20	22°♎27'05	2.61375 AU	
	-12663 Jan 28 j 06:41	0°♏		
morning rise	-12663 Feb 16 j 07:44	12°♏19'22		
	-12663 Mar 15 j 23:34	0°♐		
	-12663 May 02 j 15:29	0°♑		
	-12663 Jun 20 j 07:43	0°♒		
asc. node	-12663 Aug 04 j 16:57	26°♒42'58		
	-12663 Aug 10 j 13:43	0°♓		
	-12663 Oct 14 j 06:32	0°♈		
retrograde	-12663 Nov 14 j 18:22	5°♈24'46		
	-12663 Dec 15 j 02:23	30°℞♓		
opposition	-12663 Dec 17 j 11:52	29°♓14'45	6°17'38	
greatest brilliancy	-12663 Dec 19 j 01:02	28°♓45'07	-2.4m	
min. Earth dist.	-12663 Dec 25 j 03:09	26°♓49'23	0.44723 AU	
direct	-12662 Jan 22 j 07:26	21°♓49'26		
	-12662 Feb 27 j 23:50	0°♈		
	-12662 Apr 23 j 10:41	0°♉		
	-12662 Jun 06 j 07:51	0°♊		
desc. node	-12662 Jun 19 j 00:02	9°♊00'37		
	-12662 Jul 18 j 06:38	0°♋		
	-12662 Aug 29 j 07:59	0°♌		
	-12662 Oct 11 j 09:57	0°♍		
	-12662 Nov 24 j 21:48	0°♎		
evening set	-12662 Dec 20 j 13:21	16°♎52'59		
	-12661 Jan 09 j 17:33	0°♏		
conjunction	-12661 Feb 07 j 20:00	18°♏44'45	-1°06'46	
minimum elong	-12661 Feb 07 j 21:20	18°♏46'54	1°07'22	
max. Earth dist.	-12661 Feb 12 j 00:31	21°♏25'56	2.65975 AU	
	-12661 Feb 25 j 09:25	0°♐		
morning rise	-12661 Mar 27 j 11:32	19°♐15'46		
	-12661 Apr 13 j 05:16	0°♑		
	-12661 May 29 j 15:52	0°♒		
asc. node	-12661 Jun 22 j 08:01	15°♒25'50		
	-12661 Jul 14 j 14:00	0°♓		
	-12661 Aug 29 j 09:14	0°♈		
	-12661 Oct 15 j 06:37	0°♉		
	-12661 Dec 07 j 00:47	0°♊		
retrograde	-12660 Jan 30 j 05:28	15°♊29'06		
min. Earth dist.	-12660 Feb 28 j 18:59	10°♊33'42	0.38614 AU	
opposition	-12660 Mar 01 j 12:37	10°♊05'26	4°50'07	
greatest brilliancy	-12660 Mar 01 j 10:27	10°♊06'54	-2.9m	
direct	-12660 Mar 31 j 23:39	4°♊58'16		
desc. node	-12660 May 06 j 06:20	12°♊10'00		
	-12660 Jun 12 j 21:05	0°♋		
	-12660 Aug 02 j 02:13	0°♌		
	-12660 Sep 18 j 02:12	0°♍		
	-12660 Nov 03 j 18:51	0°♎		
	-12660 Dec 20 j 19:46	0°♏		
evening set	-12659 Jan 29 j 01:14	24°♏56'21		
	-12659 Feb 05 j 23:50	0°♐		
max. Earth dist.	-12659 Mar 07 j 12:34	18°♐54'37	2.65269 AU	
conjunction	-12659 Mar 18 j 04:07	25°♐46'45	-0°30'55	
minimum elong	-12659 Mar 18 j 05:19	25°♐48'41	0°31'42	
	-12659 Mar 24 j 16:28	0°♑		
morning rise	-12659 May 04 j 09:19	26°♑44'14		
asc. node	-12659 May 08 j 22:46	29°♑46'40		
	-12659 May 09 j 06:45	0°♒		
	-12659 Jun 22 j 10:51	0°♓		
	-12659 Aug 04 j 05:44	0°♈		
	-12659 Sep 14 j 23:45	0°♉		
	-12659 Oct 26 j 08:38	0°♊		
	-12659 Dec 07 j 14:46	0°♋		
	-12658 Jan 23 j 01:53	0°♌		
desc. node	-12658 Mar 24 j 10:14	24°♌11'32		
retrograde	-12658 Apr 02 j 12:22	24°♌45'47		
min. Earth dist.	-12658 May 01 j 08:58	19°♌11'38	0.47452 AU	
greatest brilliancy	-12658 May 08 j 11:28	16°♌43'16	-2.3m	
opposition	-12658 May 09 j 08:38	16°♌24'43	-2°50'01	
direct	-12658 Jun 11 j 16:38	9°♌35'09		
	-12658 Aug 17 j 13:07	0°♍		
	-12658 Oct 11 j 10:20	0°♎		
	-12658 Nov 30 j 14:11	0°♏		
	-12657 Jan 18 j 02:51	0°♐		
	-12657 Mar 06 j 05:48	0°♑		
evening set	-12657 Mar 09 j 20:12	2°♑20'08		
asc. node	-12657 Mar 26 j 17:54	13°♑23'52		
max. Earth dist.	-12657 Apr 03 j 12:48	18°♑33'04	2.59357 AU	
	-12657 Apr 20 j 15:08	0°♒		
conjunction	-12657 Apr 28 j 02:54	5°♒04'36	0°20'16	
minimum elong	-12657 Apr 28 j 02:01	5°♒03'05	0°19'36	
	-12657 Jun 03 j 01:44	0°♓		
morning rise	-12657 Jun 16 j 19:01	9°♓45'29		
	-12657 Jul 14 j 16:17	0°♈		
	-12657 Aug 23 j 20:54	0°♉		
	-12657 Oct 02 j 07:07	0°♊		
	-12657 Nov 10 j 19:41	0°♋		
	-12657 Dec 21 j 13:54	0°♌		
	-12656 Feb 03 j 11:13	0°♍		
desc. node	-12656 Feb 09 j 06:46	3°♍42'17		
	-12656 Mar 27 j 10:42	0°♎		
retrograde	-12656 May 16 j 05:05	13°♎17'58		
min. Earth dist.	-12656 Jun 19 j 02:23	5°♎43'04	0.58893 AU	
opposition	-12656 Jun 24 j 16:25	3°♎31'21	-5°17'15	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

greatest brilliancy	-12656 Jun 23 j 16:16	3°♎55'07	-1.7m
	-12656 Jul 04 j 03:04	30°℞♍	
direct	-12656 Jul 31 j 11:10	25°♍03'30	
	-12656 Aug 30 j 12:17	0°♎	
	-12656 Nov 05 j 08:18	0°♏	
	-12656 Dec 27 j 16:41	0°♐	
asc. node	-12655 Feb 10 j 19:28	27°♐51'35	
	-12655 Feb 14 j 04:10	0°♑	
	-12655 Mar 31 j 21:48	0°♒	
evening set	-12655 Apr 21 j 13:16	14°♒07'01	
max. Earth dist.	-12655 May 08 j 03:48	25°♒44'24	2.48970 AU
	-12655 May 14 j 03:46	0°♓	
conjunction	-12655 Jun 13 j 21:04	22°♓17'44	1°06'06
minimum elong	-12655 Jun 13 j 19:09	22°♓14'11	1°05'57
	-12655 Jun 24 j 06:07	0°♈	
	-12655 Aug 02 j 18:26	0°♉	
morning rise	-12655 Aug 09 j 10:21	5°♉08'28	
	-12655 Sep 10 j 10:40	0°♊	
	-12655 Oct 19 j 03:38	0°♋	
	-12655 Nov 27 j 19:22	0°♌	
desc. node	-12655 Dec 26 j 22:32	21°♌12'03	
	-12654 Jan 08 j 09:48	0°♍	
	-12654 Feb 22 j 07:47	0°♎	
	-12654 Apr 15 j 03:03	0°♏	
retrograde	-12654 Jun 22 j 05:38	21°♏12'43	
min. Earth dist.	-12654 Jul 30 j 06:50	12°♏05'57	0.65442 AU
opposition	-12654 Aug 01 j 03:31	11°♏20'52	-4°49'18
greatest brilliancy	-12654 Jul 31 j 20:45	11°♏27'42	-1.4m
direct	-12654 Sep 09 j 08:28	1°♏55'35	
	-12654 Dec 02 j 13:59	0°♐	
asc. node	-12654 Dec 30 j 01:28	15°♐04'06	
	-12653 Jan 24 j 07:02	0°♑	
	-12653 Mar 12 j 08:06	0°♒	
	-12653 Apr 24 j 22:02	0°♓	
	-12653 Jun 04 j 22:35	0°♈	
evening set	-12653 Jun 13 j 19:30	6°♈40'59	
	-12653 Jul 14 j 05:13	0°♉	
max. Earth dist.	-12653 Aug 01 j 16:46	14°♉23'46	2.38539 AU
conjunction	-12653 Aug 13 j 00:23	23°♉15'18	1°00'46
minimum elong	-12653 Aug 13 j 03:26	23°♉21'17	1°01'22
	-12653 Aug 21 j 14:53	0°♊	
	-12653 Sep 29 j 01:30	0°♋	
morning rise	-12653 Oct 16 j 05:09	13°♋11'54	
	-12653 Nov 07 j 10:03	0°♌	
desc. node	-12653 Nov 13 j 14:48	4°♌37'26	
	-12653 Dec 18 j 11:23	0°♍	
	-12652 Jan 30 j 22:19	0°♎	
	-12652 Mar 17 j 15:03	0°♏	
	-12652 May 09 j 01:36	0°♐	
retrograde	-12652 Jul 26 j 16:02	25°♐41'16	
opposition	-12652 Sep 03 j 19:58	16°♐18'15	-2°52'23
greatest brilliancy	-12652 Sep 04 j 01:13	16°♐12'59	-1.4m
min. Earth dist.	-12652 Sep 05 j 17:42	15°♐32'26	0.65849 AU
direct	-12652 Oct 14 j 08:20	6°♐23'43	
asc. node	-12652 Nov 16 j 08:53	12°♐14'46	
	-12652 Dec 27 j 14:35	0°♑	
	-12651 Feb 17 j 10:30	0°♒	
	-12651 Apr 03 j 10:37	0°♓	
	-12651 May 14 j 22:33	0°♈	
	-12651 Jun 23 j 08:57	0°♉	
	-12651 Jul 31 j 20:25	0°♊	
evening set	-12651 Aug 16 j 01:34	11°♊53'32	
	-12651 Sep 08 j 08:58	0°♋	
desc. node	-12651 Sep 30 j 09:34	16°♋52'34	

conjunction	-12651 Oct 16 j 15:02	29°♋06'31	-0°12'08
minimum elong	-12651 Oct 16 j 14:06	29°♋04'46	0°11'24
behind sun begin	-12651 Oct 15 j 19:38	28°♋30'14	
behind sun end	-12651 Oct 17 j 08:34	29°♋39'17	
	-12651 Oct 17 j 19:40	0°♌	
	-12651 Nov 27 j 21:19	0°♍	
max. Earth dist.	-12651 Nov 28 j 05:35	0°♍14'44	2.47105 AU
morning rise	-12651 Dec 15 j 10:39	12°♍23'24	
	-12650 Jan 10 j 01:10	0°♎	
	-12650 Feb 24 j 12:35	0°♏	
	-12650 Apr 13 j 14:50	0°♐	
	-12650 Jun 04 j 22:09	0°♑	
	-12650 Aug 18 j 07:27	0°♒	
retrograde	-12650 Sep 03 j 08:47	1°♒30'05	
	-12650 Sep 18 j 11:41	30°℞♑	
asc. node	-12650 Oct 04 j 13:34	25°♑21'05	
opposition	-12650 Oct 10 j 18:05	23°♑01'15	0°16'47
greatest brilliancy	-12650 Oct 10 j 19:19	23°♑00'04	-1.7m
min. Earth dist.	-12650 Oct 16 j 05:39	20°♑54'12	0.60185 AU
direct	-12650 Nov 20 j 04:53	13°♑11'20	
	-12649 Jan 17 j 14:08	0°♒	
	-12649 Mar 10 j 08:56	0°♓	
	-12649 Apr 22 j 21:11	0°♈	
	-12649 Jun 02 j 05:27	0°♉	
	-12649 Jul 11 j 06:57	0°♊	
desc. node	-12649 Aug 18 j 09:38	29°♊18'31	
	-12649 Aug 19 j 07:23	0°♋	
	-12649 Sep 28 j 05:04	0°♌	
evening set	-12649 Oct 16 j 04:30	13°♌10'06	
	-12649 Nov 08 j 16:02	0°♍	
conjunction	-12649 Dec 10 j 11:45	22°♍08'45	-1°06'31
minimum elong	-12649 Dec 10 j 09:51	22°♍05'29	1°06'24
	-12649 Dec 22 j 00:48	0°♎	
max. Earth dist.	-12648 Jan 06 j 07:20	10°♎15'32	2.58186 AU
morning rise	-12648 Feb 01 j 02:26	27°♎16'19	
	-12648 Feb 05 j 06:55	0°♏	
	-12648 Mar 23 j 03:55	0°♐	
	-12648 May 10 j 11:26	0°♑	
	-12648 Jun 29 j 23:02	0°♒	
asc. node	-12648 Aug 21 j 11:29	27°♒39'49	
	-12648 Aug 26 j 15:54	0°♓	
retrograde	-12648 Oct 21 j 06:20	14°♓35'15	
opposition	-12648 Nov 24 j 15:39	7°♓37'07	4°36'40
greatest brilliancy	-12648 Nov 25 j 19:52	7°♓12'37	-2.1m
min. Earth dist.	-12648 Dec 02 j 14:39	4°♓52'10	0.49478 AU
	-12648 Dec 21 j 04:07	30°℞♒	
direct	-12647 Jan 01 j 13:59	29°♒05'49	
	-12647 Jan 13 j 06:20	0°♓	
	-12647 Mar 23 j 01:09	0°♈	
	-12647 May 06 j 20:11	0°♉	
	-12647 Jun 17 j 02:16	0°♊	
desc. node	-12647 Jul 05 j 15:58	13°♊44'58	
	-12647 Jul 27 j 14:56	0°♋	
	-12647 Sep 06 j 17:12	0°♌	
	-12647 Oct 19 j 02:37	0°♍	
	-12647 Dec 02 j 03:14	0°♎	
evening set	-12647 Dec 03 j 15:40	1°♎00'55	
	-12646 Jan 16 j 16:30	0°♏	
conjunction	-12646 Jan 23 j 01:39	4°♏08'16	-1°13'47
minimum elong	-12646 Jan 23 j 02:23	4°♏09'27	1°14'14
max. Earth dist.	-12646 Feb 02 j 05:02	10°♏41'27	2.64803 AU
	-12646 Mar 04 j 07:08	0°♐	
morning rise	-12646 Mar 12 j 13:34	5°♐16'58	
	-12646 Apr 20 j 08:11	0°♑	
	-12646 Jun 06 j 09:38	0°♒	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

asc. node	-12646 Jul 09 j 03:44	20°♒50'29	
	-12646 Jul 23 j 15:15	0°♓	
	-12646 Sep 10 j 04:40	0°♈	
	-12646 Nov 03 j 20:41	0°♉	
retrograde	-12646 Dec 30 j 05:59	15°♉47'18	
opposition	-12645 Jan 30 j 03:02	10°♉35'55	6°58'38
greatest brilliancy	-12645 Jan 31 j 00:19	10°♉21'19	-2.8m
min. Earth dist.	-12645 Feb 02 j 08:12	9°♉43'09	0.39290 AU
direct	-12645 Mar 02 j 19:13	5°♉02'53	
	-12645 May 12 j 20:38	0°♊	
desc. node	-12645 May 23 j 22:53	6°♊29'04	
	-12645 Jun 30 j 04:00	0°♋	
	-12645 Aug 14 j 05:08	0°♌	
	-12645 Sep 28 j 00:53	0°♍	
	-12645 Nov 12 j 14:12	0°♎	
	-12645 Dec 29 j 00:20	0°♏	
evening set	-12644 Jan 14 j 15:20	10°♏38'56	
	-12644 Feb 13 j 21:49	0°♐	
max. Earth dist.	-12644 Feb 27 j 01:42	8°♐25'25	2.66173 AU
conjunction	-12644 Mar 02 j 22:43	11°♐32'55	-0°47'21
minimum elong	-12644 Mar 03 j 00:15	11°♐35'23	0°48'06
	-12644 Mar 31 j 14:17	0°♑	
morning rise	-12644 Apr 19 j 00:59	11°♑59'20	
	-12644 May 16 j 10:28	0°♒	
asc. node	-12644 May 25 j 17:47	6°♒10'48	
	-12644 Jun 30 j 03:03	0°♓	
	-12644 Aug 12 j 17:37	0°♈	
	-12644 Sep 24 j 16:18	0°♉	
	-12644 Nov 06 j 20:11	0°♊	
	-12644 Dec 22 j 15:09	0°♋	
	-12643 Mar 02 j 06:03	0°♌	
retrograde	-12643 Mar 11 j 19:16	0°♌37'30	
	-12643 Mar 21 j 06:08	30°℞♋	
min. Earth dist.	-12643 Apr 08 j 09:03	25°♋44'08	0.42857 AU
desc. node	-12643 Apr 10 j 02:43	25°♋11'40	
opposition	-12643 Apr 15 j 15:40	23°♋26'05	-0°23'30
greatest brilliancy	-12643 Apr 15 j 12:47	23°♋28'22	-2.6m
direct	-12643 May 17 j 09:08	17°♋26'32	
	-12643 Jul 05 j 18:32	0°♌	
	-12643 Aug 31 j 22:26	0°♍	
	-12643 Oct 20 j 22:28	0°♎	
	-12643 Dec 08 j 11:09	0°♏	
	-12642 Jan 25 j 07:32	0°♐	
evening set	-12642 Feb 22 j 04:31	17°♐44'21	
	-12642 Mar 13 j 04:51	0°♑	
max. Earth dist.	-12642 Mar 23 j 12:17	6°♑42'59	2.62269 AU
conjunction	-12642 Apr 11 j 17:31	19°♑22'27	-0°00'29
minimum elong	-12642 Apr 11 j 17:35	19°♑22'34	0°01'14
behind sun begin	-12642 Apr 10 j 21:32	18°♑49'19	
behind sun end	-12642 Apr 12 j 13:39	19°♑55'51	
asc. node	-12642 Apr 12 j 11:26	19°♑52'11	
	-12642 Apr 27 j 14:59	0°♒	
morning rise	-12642 May 30 j 00:28	22°♒08'08	
	-12642 Jun 10 j 07:06	0°♓	
	-12642 Jul 22 j 06:28	0°♈	
	-12642 Aug 31 j 22:14	0°♉	
	-12642 Oct 10 j 21:05	0°♊	
	-12642 Nov 20 j 00:48	0°♋	
	-12642 Dec 31 j 19:41	0°♌	
	-12641 Feb 16 j 10:48	0°♍	
desc. node	-12641 Feb 26 j 02:03	5°♍25'11	
retrograde	-12641 May 01 j 04:58	26°♍25'08	
min. Earth dist.	-12641 Jun 02 j 03:56	19°♍35'01	0.54826 AU
greatest brilliancy	-12641 Jun 07 j 20:25	17°♍24'50	-1.9m
opposition	-12641 Jun 09 j 00:33	16°♍57'54	-4°49'54
direct	-12641 Jul 14 j 13:24	9°♍02'37	
	-12641 Sep 21 j 16:37	0°♎	
	-12641 Nov 16 j 08:11	0°♏	
	-12640 Jan 05 j 16:06	0°♐	
	-12640 Feb 22 j 11:14	0°♑	
asc. node	-12640 Feb 28 j 10:21	3°♑50'43	
evening set	-12640 Apr 03 j 18:05	27°♑08'05	
	-12640 Apr 08 j 00:07	0°♒	
max. Earth dist.	-12640 Apr 22 j 12:24	9°♒53'14	2.53455 AU
	-12640 May 21 j 07:03	0°♓	
conjunction	-12640 May 25 j 02:16	2°♓42'27	0°51'08
minimum elong	-12640 May 25 j 00:13	2°♓38'48	0°50'45
	-12640 Jul 01 j 13:13	0°♈	
morning rise	-12640 Jul 17 j 08:27	11°♈49'10	
	-12640 Aug 10 j 06:46	0°♉	
	-12640 Sep 18 j 04:32	0°♊	
	-12640 Oct 27 j 02:53	0°♋	
	-12640 Dec 06 j 01:05	0°♌	
desc. node	-12639 Jan 12 j 19:52	27°♌01'31	
	-12639 Jan 17 j 03:26	0°♍	
	-12639 Mar 04 j 11:10	0°♎	
	-12639 May 02 j 23:40	0°♏	
retrograde	-12639 Jun 08 j 07:43	7°♏21'36	
	-12639 Jul 11 j 19:38	30°℞♎	
min. Earth dist.	-12639 Jul 14 j 21:05	28°♎47'14	0.63596 AU
opposition	-12639 Jul 18 j 05:47	27°♎26'13	-5°13'08
greatest brilliancy	-12639 Jul 17 j 16:00	27°♎40'04	-1.5m
direct	-12639 Aug 25 j 15:23	18°♎19'41	
	-12639 Oct 13 j 20:54	0°♏	
	-12639 Dec 13 j 02:00	0°♐	
asc. node	-12638 Jan 15 j 15:28	19°♐38'08	
	-12638 Feb 01 j 12:18	0°♑	
	-12638 Mar 19 j 21:20	0°♒	
	-12638 May 02 j 06:46	0°♓	
evening set	-12638 May 22 j 13:44	14°♓39'12	
	-12638 Jun 12 j 07:02	0°♈	
max. Earth dist.	-12638 Jun 13 j 11:01	0°♈52'27	2.41722 AU
conjunction	-12638 Jul 19 j 00:31	27°♈59'13	1°12'38
minimum elong	-12638 Jul 19 j 01:23	28°♈00'54	1°13'00
	-12638 Jul 21 j 14:58	0°♉	
	-12638 Aug 29 j 02:12	0°♊	
morning rise	-12638 Sep 19 j 05:20	16°♊30'50	
	-12638 Oct 06 j 14:05	0°♋	
	-12638 Nov 14 j 23:55	0°♌	
desc. node	-12638 Nov 30 j 10:17	11°♌25'54	
	-12638 Dec 26 j 03:48	0°♍	
	-12637 Feb 07 j 22:33	0°♎	
	-12637 Mar 27 j 17:07	0°♏	
	-12637 May 24 j 05:02	0°♐	
retrograde	-12637 Jul 13 j 19:17	12°♐33'58	
opposition	-12637 Aug 22 j 09:20	2°♐56'43	-3°46'16
greatest brilliancy	-12637 Aug 22 j 11:17	2°♐54'45	-1.4m
min. Earth dist.	-12637 Aug 22 j 19:39	2°♐46'19	0.66440 AU
	-12637 Aug 29 j 20:05	30°℞♏	
direct	-12637 Oct 01 j 12:58	23°♏10'35	
	-12637 Nov 06 j 16:50	0°♐	
asc. node	-12637 Dec 03 j 22:24	11°♐09'06	
	-12636 Jan 09 j 00:39	0°♑	
	-12636 Feb 27 j 04:21	0°♒	
	-12636 Apr 11 j 10:50	0°♓	
	-12636 May 22 j 16:37	0°♈	
	-12636 Jul 01 j 00:28	0°♉	
evening set	-12636 Jul 21 j 06:15	15°♉46'19	
	-12636 Aug 08 j 10:06	0°♊	
	-12636 Sep 15 j 20:33	0°♋	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

conjunction	-12636 Sep 21 j 17:34	4°♋32'22	0°19'11
minimum elong	-12636 Sep 21 j 19:20	4°♋35'45	0°19'57
desc. node	-12636 Oct 17 j 04:52	23°♋59'03	
	-12636 Oct 25 j 04:57	0°♌	
max. Earth dist.	-12636 Nov 03 j 07:42	6°♌47'36	2.42266 AU
morning rise	-12636 Nov 23 j 11:29	21°♌34'10	
	-12636 Dec 05 j 04:44	0°♍	
	-12635 Jan 17 j 08:52	0°♎	
	-12635 Mar 04 j 02:49	0°♏	
	-12635 Apr 22 j 05:10	0°♐	
	-12635 Jun 17 j 14:10	0°♑	
retrograde	-12635 Aug 18 j 14:25	17°♑18'36	
opposition	-12635 Sep 25 j 19:46	8°♑25'09	-1°05'16
greatest brilliancy	-12635 Sep 26 j 00:12	8°♑20'48	-1.5m
min. Earth dist.	-12635 Sep 29 j 22:41	6°♑47'48	0.63103 AU
asc. node	-12635 Oct 21 j 03:58	0°♑02'57	
	-12635 Oct 21 j 09:43	30°℞♐	
direct	-12635 Nov 05 j 12:10	28°♐28'01	
	-12635 Nov 21 j 11:50	0°♑	
	-12634 Jan 31 j 14:50	0°♒	
	-12634 Mar 20 j 06:33	0°♓	
	-12634 May 01 j 16:24	0°♈	
	-12634 Jun 10 j 13:09	0°♉	
	-12634 Jul 19 j 07:14	0°♊	
	-12634 Aug 27 j 01:14	0°♋	
desc. node	-12634 Sep 04 j 03:43	6°♋12'22	
evening set	-12634 Sep 23 j 16:05	21°♋00'09	
	-12634 Oct 05 j 16:54	0°♌	
	-12634 Nov 15 j 22:28	0°♍	
conjunction	-12634 Nov 20 j 15:08	3°♍19'48	-0°51'14
minimum elong	-12634 Nov 20 j 12:35	3°♍15'17	0°50'50
max. Earth dist.	-12634 Dec 24 j 11:50	26°♍50'23	2.54243 AU
	-12634 Dec 29 j 03:26	0°♎	
morning rise	-12633 Jan 14 j 18:50	11°♎11'25	
	-12633 Feb 12 j 09:15	0°♏	
	-12633 Mar 31 j 13:16	0°♐	
	-12633 May 19 j 20:20	0°♑	
	-12633 Jul 12 j 11:29	0°♒	
asc. node	-12633 Sep 08 j 04:43	23°♒34'36	
retrograde	-12633 Oct 01 j 09:44	26°♒36'58	
opposition	-12633 Nov 06 j 03:22	18°♒57'47	2°49'26
greatest brilliancy	-12633 Nov 06 j 19:21	18°♒43'06	-1.9m
min. Earth dist.	-12633 Nov 13 j 10:09	16°♒17'45	0.54097 AU
direct	-12633 Dec 15 j 11:15	9°♒42'31	
	-12632 Feb 16 j 21:12	0°♓	
	-12632 Apr 05 j 08:53	0°♈	
	-12632 May 17 j 10:38	0°♉	
	-12632 Jun 26 j 11:22	0°♊	
desc. node	-12632 Jul 22 j 06:49	19°♊31'18	
	-12632 Aug 05 j 04:44	0°♋	
	-12632 Sep 14 j 16:19	0°♌	
	-12632 Oct 26 j 14:19	0°♍	
evening set	-12632 Nov 15 j 13:40	13°♍52'12	
	-12632 Dec 09 j 06:41	0°♎	
conjunction	-12631 Jan 06 j 13:21	18°♎49'01	-1°15'48
minimum elong	-12631 Jan 06 j 13:09	18°♎48'43	1°16'02
max. Earth dist.	-12631 Jan 22 j 22:46	29°♎33'00	2.62805 AU
	-12631 Jan 23 j 15:21	0°♏	
morning rise	-12631 Feb 25 j 07:49	21°♏05'42	
	-12631 Mar 11 j 06:25	0°♐	
	-12631 Apr 27 j 15:32	0°♑	
	-12631 Jun 14 j 14:42	0°♒	
asc. node	-12631 Jul 25 j 22:51	25°♒14'26	
	-12631 Aug 02 j 23:02	0°♓	
	-12631 Sep 26 j 15:13	0°♈	
retrograde	-12631 Nov 30 j 05:51	19°♈06'48	
opposition	-12630 Jan 01 j 01:57	13°♈22'36	6°57'41
greatest brilliancy	-12630 Jan 02 j 14:59	12°♈54'35	-2.5m
min. Earth dist.	-12630 Jan 07 j 18:12	11°♈21'57	0.42379 AU
direct	-12630 Feb 04 j 11:28	6°♈39'15	
	-12630 Apr 12 j 12:22	0°♉	
	-12630 May 29 j 16:40	0°♊	
desc. node	-12630 Jun 09 j 13:11	7°♊25'08	
	-12630 Jul 11 j 22:50	0°♋	
	-12630 Aug 23 j 18:02	0°♌	
	-12630 Oct 06 j 07:11	0°♍	
	-12630 Nov 20 j 02:04	0°♎	
evening set	-12630 Dec 29 j 20:57	25°♎59'30	
	-12629 Jan 05 j 01:44	0°♏	
conjunction	-12629 Feb 16 j 17:04	27°♏23'13	-1°00'42
minimum elong	-12629 Feb 16 j 18:35	27°♏25'39	1°01'22
max. Earth dist.	-12629 Feb 17 j 15:04	27°♏58'26	2.66269 AU
	-12629 Feb 20 j 19:00	0°♐	
morning rise	-12629 Apr 05 j 01:29	27°♐45'30	
	-12629 Apr 08 j 13:00	0°♑	
	-12629 May 24 j 17:38	0°♒	
asc. node	-12629 Jun 12 j 13:34	12°♒22'44	
	-12629 Jul 09 j 03:24	0°♓	
	-12629 Aug 22 j 23:18	0°♈	
	-12629 Oct 06 j 22:50	0°♉	
	-12629 Nov 23 j 01:57	0°♊	
	-12628 Jan 25 j 19:12	0°♋	
retrograde	-12628 Feb 15 j 06:38	2°♋42'55	
	-12628 Mar 07 j 00:30	30°℞♊	
min. Earth dist.	-12628 Mar 14 j 11:05	28°♊01'20	0.39497 AU
opposition	-12628 Mar 18 j 18:22	26°♊47'48	2°56'30
greatest brilliancy	-12628 Mar 18 j 10:36	26°♊53'21	-2.8m
direct	-12628 Apr 18 j 07:32	21°♊30'30	
desc. node	-12628 Apr 26 j 19:31	21°♊58'27	
	-12628 May 27 j 08:05	0°♋	
	-12628 Jul 24 j 21:42	0°♌	
	-12628 Sep 11 j 22:46	0°♍	
	-12628 Oct 29 j 12:22	0°♎	
	-12628 Dec 15 j 23:30	0°♏	
	-12627 Feb 01 j 08:36	0°♐	
evening set	-12627 Feb 06 j 19:41	3°♐28'38	
max. Earth dist.	-12627 Mar 13 j 06:22	25°♐34'01	2.64421 AU
	-12627 Mar 20 j 02:40	0°♑	
conjunction	-12627 Mar 26 j 23:53	4°♑28'34	-0°20'18
minimum elong	-12627 Mar 27 j 00:44	4°♑29'57	0°21'05
asc. node	-12627 Apr 29 j 05:43	26°♑23'08	
	-12627 May 04 j 15:27	0°♒	
morning rise	-12627 May 13 j 11:10	5°♒55'49	
	-12627 Jun 17 j 15:02	0°♓	
	-12627 Jul 30 j 02:05	0°♈	
	-12627 Sep 09 j 09:02	0°♉	
	-12627 Oct 20 j 02:42	0°♊	
	-12627 Nov 30 j 08:12	0°♋	
	-12626 Jan 13 j 05:49	0°♌	
	-12626 Mar 10 j 00:28	0°♍	
desc. node	-12626 Mar 14 j 20:08	1°♍45'52	
retrograde	-12626 Apr 13 j 13:38	7°♍19'18	
min. Earth dist.	-12626 May 13 j 12:26	1°♍17'32	0.50173 AU
	-12626 May 17 j 02:32	30°℞♌	
greatest brilliancy	-12626 May 20 j 04:20	28°♌52'27	-2.1m
opposition	-12626 May 21 j 06:44	28°♌28'21	-3°47'18
direct	-12626 Jun 24 j 10:01	21°♌12'59	
	-12626 Aug 04 j 04:54	0°♍	
	-12626 Oct 04 j 14:39	0°♎	
	-12626 Nov 25 j 04:19	0°♏	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12625 Jan 13 j 06:02	0°♐	
	-12625 Mar 01 j 14:19	0°♑	
asc. node	-12625 Mar 17 j 02:45	10°♑05'43	
evening set	-12625 Mar 19 j 00:42	11°♑21'03	
max. Earth dist.	-12625 Apr 10 j 08:30	26°♑09'55	2.57461 AU
	-12625 Apr 16 j 01:11	0°♒	
conjunction	-12625 May 07 j 21:19	14°♒55'00	0°32'01
minimum elong	-12625 May 07 j 19:54	14°♒52'34	0°31'26
	-12625 May 29 j 10:57	0°♓	
morning rise	-12625 Jun 27 j 14:37	20°♓56'56	
	-12625 Jul 09 j 22:41	0°♈	
	-12625 Aug 18 j 23:06	0°♉	
	-12625 Sep 27 j 04:11	0°♊	
	-12625 Nov 05 j 10:07	0°♋	
	-12625 Dec 15 j 18:27	0°♌	
	-12624 Jan 27 j 17:43	0°♍	
desc. node	-12624 Jan 30 j 15:57	1°♍56'22	
	-12624 Mar 16 j 22:56	0°♎	
retrograde	-12624 May 24 j 21:26	22°♎41'22	
min. Earth dist.	-12624 Jun 28 j 18:45	14°♎44'04	0.60822 AU
opposition	-12624 Jul 03 j 14:44	12°♎48'59	-5°21'31
greatest brilliancy	-12624 Jul 02 j 17:55	13°♎09'38	-1.6m
direct	-12624 Aug 10 j 00:44	4°♎05'47	
	-12624 Oct 28 j 21:36	0°♏	
	-12624 Dec 22 j 04:07	0°♐	
asc. node	-12623 Feb 01 j 04:56	24°♐56'22	
	-12623 Feb 09 j 05:55	0°♑	
	-12623 Mar 27 j 04:54	0°♒	
evening set	-12623 May 02 j 07:41	24°♒53'38	
	-12623 May 09 j 12:34	0°♓	
max. Earth dist.	-12623 May 18 j 22:10	6°♓44'09	2.46374 AU
	-12623 Jun 19 j 14:36	0°♈	
conjunction	-12623 Jun 25 j 22:53	4°♈45'20	1°11'26
minimum elong	-12623 Jun 25 j 21:35	4°♈42'55	1°11'29
	-12623 Jul 29 j 01:36	0°♉	
morning rise	-12623 Aug 23 j 13:13	19°♉46'21	
	-12623 Sep 05 j 16:02	0°♊	
	-12623 Oct 14 j 06:36	0°♋	
	-12623 Nov 22 j 19:05	0°♌	
desc. node	-12623 Dec 17 j 08:54	18°♌01'55	
	-12622 Jan 03 j 03:45	0°♍	
	-12622 Feb 16 j 11:36	0°♎	
	-12622 Apr 07 j 04:19	0°♏	
retrograde	-12622 Jun 30 j 03:14	29°♏22'22	
opposition	-12622 Aug 08 j 23:37	19°♏34'29	-4°29'28
min. Earth dist.	-12622 Aug 07 j 22:13	20°♏00'07	0.66060 AU
greatest brilliancy	-12622 Aug 08 j 20:20	19°♏37'48	-1.4m
direct	-12622 Sep 17 j 14:12	10°♏00'40	
	-12622 Nov 24 j 13:05	0°♐	
asc. node	-12622 Dec 20 j 11:29	13°♐20'05	
	-12621 Jan 18 j 14:33	0°♑	
	-12621 Mar 07 j 07:00	0°♒	
	-12621 Apr 20 j 02:38	0°♓	
	-12621 May 31 j 05:07	0°♈	
evening set	-12621 Jun 27 j 06:15	20°♈32'33	
	-12621 Jul 09 j 12:11	0°♉	
	-12621 Aug 16 j 21:43	0°♊	
conjunction	-12621 Aug 27 j 16:17	8°♊26'45	0°48'15
minimum elong	-12621 Aug 27 j 19:40	8°♊33'23	0°48'56
max. Earth dist.	-12621 Sep 16 j 10:56	23°♊53'22	2.38679 AU
	-12621 Sep 24 j 07:50	0°♋	
morning rise	-12621 Oct 30 j 23:29	27°♋59'44	
	-12621 Nov 02 j 15:37	0°♌	
desc. node	-12621 Nov 04 j 00:49	1°♌02'09	
	-12621 Dec 13 j 15:21	0°♍	
	-12620 Jan 25 j 22:02	0°♎	
	-12620 Mar 12 j 03:15	0°♏	
	-12620 May 01 j 21:41	0°♐	
	-12620 Jul 08 j 21:26	0°♑	
retrograde	-12620 Aug 03 j 20:09	3°♑44'54	
	-12620 Aug 27 j 16:51	30°℞♐	
opposition	-12620 Sep 11 j 17:22	24°♐31'14	-2°16'05
greatest brilliancy	-12620 Sep 11 j 23:11	24°♐25'25	-1.4m
min. Earth dist.	-12620 Sep 14 j 09:53	23°♐26'56	0.65133 AU
direct	-12620 Oct 22 j 09:03	14°♐34'16	
asc. node	-12620 Nov 06 j 18:19	15°♐58'26	
	-12620 Dec 18 j 11:11	0°♑	
	-12619 Feb 11 j 09:07	0°♒	
	-12619 Mar 29 j 03:28	0°♓	
	-12619 May 09 j 22:19	0°♈	
	-12619 Jun 18 j 11:57	0°♉	
	-12619 Jul 27 j 01:15	0°♊	
evening set	-12619 Aug 30 j 09:18	26°♊43'49	
	-12619 Sep 03 j 14:53	0°♋	
desc. node	-12619 Sep 20 j 20:54	13°♋13'45	
	-12619 Oct 13 j 02:19	0°♌	
conjunction	-12619 Oct 29 j 20:52	12°♌24'48	-0°28'13
minimum elong	-12619 Oct 29 j 18:53	12°♌21'10	0°27'36
	-12619 Nov 23 j 04:20	0°♍	
max. Earth dist.	-12619 Dec 09 j 02:36	11°♍15'26	2.49758 AU
morning rise	-12619 Dec 26 j 23:27	23°♍38'17	
	-12618 Jan 05 j 07:18	0°♎	
	-12618 Feb 19 j 15:16	0°♏	
	-12618 Apr 08 j 06:47	0°♐	
	-12618 May 29 j 03:14	0°♑	
	-12618 Jul 28 j 18:03	0°♒	
retrograde	-12618 Sep 13 j 01:00	10°♒32'42	
asc. node	-12618 Sep 24 j 21:17	9°♒37'46	
opposition	-12618 Oct 19 j 21:47	2°♒19'46	1°09'30
greatest brilliancy	-12618 Oct 20 j 03:23	2°♒14'26	-1.7m
min. Earth dist.	-12618 Oct 26 j 01:56	29°♑58'53	0.58217 AU
	-12618 Oct 26 j 00:45	30°℞♑	
direct	-12618 Nov 29 j 02:03	22°♑38'36	
	-12617 Jan 04 j 05:20	0°♒	
	-12617 Mar 03 j 06:32	0°♓	
	-12617 Apr 16 j 23:10	0°♈	
	-12617 May 27 j 18:56	0°♉	
	-12617 Jul 06 j 03:11	0°♊	
desc. node	-12617 Aug 08 j 22:45	25°♊53'44	
	-12617 Aug 14 j 08:13	0°♋	
	-12617 Sep 23 j 09:23	0°♌	
evening set	-12617 Oct 28 j 01:09	25°♌06'13	
	-12617 Nov 03 j 22:52	0°♍	
	-12617 Dec 17 j 08:57	0°♎	
conjunction	-12617 Dec 21 j 01:12	2°♎28'52	-1°11'49
minimum elong	-12617 Dec 20 j 23:53	2°♎26'40	1°11'51
max. Earth dist.	-12616 Jan 13 j 02:55	17°♎52'14	2.60029 AU
	-12616 Jan 31 j 14:52	0°♏	
morning rise	-12616 Feb 10 j 12:20	6°♏25'25	
	-12616 Mar 18 j 08:31	0°♐	
	-12616 May 05 j 05:54	0°♑	
	-12616 Jun 23 j 13:48	0°♒	
asc. node	-12616 Aug 11 j 18:25	27°♒52'47	
	-12616 Aug 15 j 19:30	0°♓	
retrograde	-12616 Nov 03 j 16:14	26°♓25'29	
opposition	-12616 Dec 07 j 03:42	19°♓53'38	5°36'16
greatest brilliancy	-12616 Dec 08 j 14:06	19°♓25'05	-2.3m
min. Earth dist.	-12616 Dec 15 j 02:49	17°♓15'37	0.46812 AU
direct	-12615 Jan 13 j 00:52	11°♓56'17	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12615 Mar 11 j 17:19	0°♈	
	-12615 Apr 29 j 04:45	0°♉	
	-12615 Jun 10 j 16:37	0°♊	
desc. node	-12615 Jun 26 j 04:08	11°♊14'31	
	-12615 Jul 21 j 21:47	0°♋	
	-12615 Sep 01 j 11:02	0°♌	
	-12615 Oct 14 j 04:07	0°♍	
	-12615 Nov 27 j 09:34	0°♎	
evening set	-12615 Dec 13 j 10:38	10°♎38'15	
	-12614 Jan 12 j 01:26	0°♏	
conjunction	-12614 Feb 01 j 04:22	13°♏00'00	-1°10'16
minimum elong	-12614 Feb 01 j 05:29	13°♏01'49	1°10'47
max. Earth dist.	-12614 Feb 07 j 23:15	17°♏21'54	2.65556 AU
	-12614 Feb 27 j 16:14	0°♐	
morning rise	-12614 Mar 21 j 03:46	13°♐44'12	
	-12614 Apr 15 j 14:05	0°♑	
	-12614 Jun 01 j 07:04	0°♒	
asc. node	-12614 Jun 29 j 10:15	18°♒09'52	
	-12614 Jul 17 j 17:48	0°♓	
	-12614 Sep 02 j 13:02	0°♈	
	-12614 Oct 21 j 17:05	0°♉	
	-12614 Dec 26 j 17:53	0°♊	
retrograde	-12613 Jan 16 j 23:28	2°♊43'18	
	-12613 Feb 07 j 04:16	30°℞♉	
opposition	-12613 Feb 16 j 18:17	27°♉32'45	6°01'25
greatest brilliancy	-12613 Feb 17 j 01:53	27°♉27'39	-2.8m
min. Earth dist.	-12613 Feb 17 j 07:54	27°♉23'38	0.38544 AU
direct	-12613 Mar 19 j 12:19	22°♉21'36	
	-12613 Apr 24 j 17:09	0°♊	
desc. node	-12613 May 14 j 10:22	8°♊47'47	
	-12613 Jun 21 j 04:43	0°♋	
	-12613 Aug 07 j 12:41	0°♌	
	-12613 Sep 22 j 09:52	0°♍	
	-12613 Nov 07 j 12:37	0°♎	
	-12613 Dec 24 j 06:08	0°♏	
evening set	-12612 Jan 23 j 12:43	19°♏18'25	
	-12612 Feb 09 j 07:05	0°♐	
max. Earth dist.	-12612 Mar 03 j 16:07	14°♐57'46	2.65782 AU
conjunction	-12612 Mar 11 j 16:24	20°♐06'46	-0°38'11
minimum elong	-12612 Mar 11 j 17:46	20°♐08'58	0°38'57
	-12612 Mar 26 j 23:47	0°♑	
morning rise	-12612 Apr 27 j 18:51	20°♑46'24	
	-12612 May 11 j 17:15	0°♒	
asc. node	-12612 May 16 j 00:47	2°♒52'27	
	-12612 Jun 25 j 03:20	0°♓	
	-12612 Aug 07 j 07:01	0°♈	
	-12612 Sep 18 j 12:43	0°♉	
	-12612 Oct 30 j 13:33	0°♊	
	-12612 Dec 12 j 22:09	0°♋	
	-12611 Jan 31 j 21:21	0°♌	
retrograde	-12611 Mar 24 j 13:37	15°♌08'30	
desc. node	-12611 Mar 31 j 15:01	14°♌46'56	
min. Earth dist.	-12611 Apr 21 j 16:44	9°♌54'22	0.45296 AU
opposition	-12611 Apr 29 j 13:25	7°♌16'21	-1°54'32
greatest brilliancy	-12611 Apr 28 j 22:45	7°♌28'43	-2.4m
direct	-12611 Jun 01 j 04:18	0°♌48'57	
	-12611 Aug 23 j 14:45	0°♍	
	-12611 Oct 14 j 22:36	0°♎	
	-12611 Dec 03 j 07:43	0°♏	
	-12610 Jan 20 j 13:11	0°♐	
evening set	-12610 Mar 03 j 03:11	26°♐28'21	
	-12610 Mar 08 j 14:09	0°♑	
max. Earth dist.	-12610 Mar 29 j 18:06	13°♑49'36	2.60761 AU
asc. node	-12610 Apr 02 j 19:03	16°♑29'37	
conjunction	-12610 Apr 21 j 00:26	28°♑38'42	0°11'27
minimum elong	-12610 Apr 20 j 23:57	28°♑37'53	0°10'44
behind sun begin	-12610 Apr 20 j 08:35	28°♑12'03	
behind sun end	-12610 Apr 21 j 15:20	29°♑03'44	
	-12610 Apr 23 j 00:45	0°♒	
	-12610 Jun 05 j 14:40	0°♓	
morning rise	-12610 Jun 08 j 23:28	2°♓22'19	
	-12610 Jul 17 j 09:50	0°♈	
	-12610 Aug 26 j 19:37	0°♉	
	-12610 Oct 05 j 11:18	0°♊	
	-12610 Nov 14 j 05:25	0°♋	
	-12610 Dec 25 j 07:36	0°♌	
	-12609 Feb 08 j 00:12	0°♍	
desc. node	-12609 Feb 16 j 12:48	5°♍13'49	
	-12609 Apr 07 j 00:06	0°♎	
retrograde	-12609 May 10 j 12:38	6°♎41'24	
	-12609 Jun 11 j 02:18	30°℞♍	
min. Earth dist.	-12609 Jun 12 j 13:37	29°♍26'25	0.57151 AU
opposition	-12609 Jun 18 j 18:32	27°♍01'47	-5°09'24
greatest brilliancy	-12609 Jun 17 j 16:02	27°♍27'33	-1.8m
direct	-12609 Jul 25 j 00:24	18°♍47'50	
	-12609 Sep 10 j 14:30	0°♎	
	-12609 Nov 10 j 01:10	0°♏	
	-12609 Dec 31 j 11:19	0°♐	
	-12608 Feb 17 j 16:13	0°♑	
asc. node	-12608 Feb 18 j 19:14	0°♑43'12	
	-12608 Apr 03 j 08:56	0°♒	
evening set	-12608 Apr 13 j 18:15	7°♒03'03	
max. Earth dist.	-12608 Apr 30 j 23:36	18°♒56'21	2.51043 AU
	-12608 May 16 j 16:31	0°♓	
conjunction	-12608 Jun 05 j 02:29	13°♓57'49	1°00'22
minimum elong	-12608 Jun 05 j 00:23	13°♓54'00	1°00'07
	-12608 Jun 26 j 21:31	0°♈	
morning rise	-12608 Jul 30 j 01:51	25°♈03'29	
	-12608 Aug 05 j 12:36	0°♉	
	-12608 Sep 13 j 07:22	0°♊	
	-12608 Oct 22 j 02:10	0°♋	
	-12608 Nov 30 j 19:28	0°♌	
desc. node	-12607 Jan 03 j 05:07	24°♌10'12	
	-12607 Jan 11 j 12:59	0°♍	
	-12607 Feb 25 j 20:26	0°♎	
	-12607 Apr 20 j 15:02	0°♏	
retrograde	-12607 Jun 16 j 09:05	15°♏49'26	
min. Earth dist.	-12607 Jul 23 j 18:58	6°♏56'50	0.64732 AU
opposition	-12607 Jul 26 j 08:08	5°♏55'17	-5°01'01
greatest brilliancy	-12607 Jul 25 j 22:18	6°♏05'10	-1.4m
	-12607 Aug 11 j 15:59	30°℞♎	
direct	-12607 Sep 03 j 05:20	26°♎37'55	
	-12607 Sep 27 j 19:34	0°♏	
	-12607 Dec 06 j 12:18	0°♐	
asc. node	-12606 Jan 06 j 00:33	17°♐15'00	
	-12606 Jan 27 j 04:50	0°♑	
	-12606 Mar 15 j 00:08	0°♒	
	-12606 Apr 27 j 13:26	0°♓	
evening set	-12606 Jun 03 j 22:13	27°♓14'05	
	-12606 Jun 07 j 15:00	0°♈	
max. Earth dist.	-12606 Jul 06 j 03:09	21°♈38'54	2.39640 AU
	-12606 Jul 16 j 22:49	0°♉	
conjunction	-12606 Aug 01 j 22:05	12°♉25'04	1°07'36
minimum elong	-12606 Aug 02 j 00:21	12°♉29'28	1°08'07
	-12606 Aug 24 j 09:23	0°♊	
	-12606 Oct 01 j 20:06	0°♋	
morning rise	-12606 Oct 04 j 11:57	2°♋03'30	
	-12606 Nov 10 j 04:11	0°♌	
desc. node	-12606 Nov 20 j 21:09	7°♌58'11	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12606 Dec 21 j 05:12	0°♍	
	-12605 Feb 02 j 17:14	0°♎	
	-12605 Mar 21 j 17:17	0°♏	
	-12605 May 14 j 14:26	0°♐	
retrograde	-12605 Jul 21 j 18:02	20°♐32'21	
opposition	-12605 Aug 30 j 03:16	11°♐02'26	-3°16'10
greatest brilliancy	-12605 Aug 30 j 07:17	10°♐58'24	-1.4m
min. Earth dist.	-12605 Aug 31 j 08:57	10°♐32'38	0.66231 AU
direct	-12605 Oct 09 j 12:44	1°♐11'13	
asc. node	-12605 Nov 24 j 07:55	11°♐36'10	
	-12604 Jan 02 j 00:40	0°♑	
	-12604 Feb 21 j 15:32	0°♒	
	-12604 Apr 06 j 08:58	0°♓	
	-12604 May 17 j 19:15	0°♈	
	-12604 Jun 26 j 05:06	0°♉	
	-12604 Aug 03 j 15:58	0°♊	
evening set	-12604 Aug 04 j 20:38	0°♊56'08	
	-12604 Sep 11 j 03:11	0°♋	
conjunction	-12604 Oct 06 j 00:50	19°♋05'40	0°01'15
minimum elong	-12604 Oct 06 j 01:00	19°♋05'58	0°02'00
behind sun begin	-12604 Oct 04 j 22:55	18°♋16'28	
behind sun end	-12604 Oct 07 j 03:05	19°♋55'26	
desc. node	-12604 Oct 07 j 15:24	20°♋18'47	
	-12604 Oct 20 j 11:55	0°♌	
max. Earth dist.	-12604 Nov 18 j 15:44	21°♌29'26	2.44902 AU
	-12604 Nov 30 j 11:31	0°♍	
morning rise	-12604 Dec 06 j 05:41	4°♍06'02	
	-12603 Jan 12 j 13:46	0°♎	
	-12603 Feb 27 j 02:11	0°♏	
	-12603 Apr 16 j 11:43	0°♐	
	-12603 Jun 09 j 01:05	0°♑	
retrograde	-12603 Aug 27 j 11:11	25°♑46'01	
opposition	-12603 Oct 04 j 06:27	17°♑05'26	-0°19'18
greatest brilliancy	-12603 Oct 04 j 08:07	17°♑03'48	-1.6m
min. Earth dist.	-12603 Oct 09 j 03:38	15°♑11'16	0.61603 AU
asc. node	-12603 Oct 11 j 13:23	14°♑16'04	
direct	-12603 Nov 13 j 21:10	7°♑11'16	
	-12602 Jan 23 j 12:04	0°♒	
	-12602 Mar 14 j 05:14	0°♓	
	-12602 Apr 26 j 05:59	0°♈	
	-12602 Jun 05 j 09:11	0°♉	
	-12602 Jul 14 j 07:13	0°♊	
	-12602 Aug 22 j 04:08	0°♋	
desc. node	-12602 Aug 25 j 14:09	2°♋36'54	
	-12602 Sep 30 j 22:04	0°♌	
evening set	-12602 Oct 06 j 17:28	4°♌17'47	
	-12602 Nov 11 j 05:29	0°♍	
conjunction	-12602 Dec 02 j 04:36	14°♍43'11	-1°00'56
minimum elong	-12602 Dec 02 j 02:19	14°♍39'13	1°00'42
	-12602 Dec 24 j 11:10	0°♎	
max. Earth dist.	-12601 Jan 01 j 05:30	5°♎14'37	2.56513 AU
morning rise	-12601 Jan 24 j 20:45	20°♎58'17	
	-12601 Feb 07 j 15:56	0°♏	
	-12601 Mar 26 j 14:36	0°♐	
	-12601 May 14 j 06:16	0°♑	
	-12601 Jul 04 j 19:24	0°♒	
asc. node	-12601 Aug 29 j 12:22	27°♒06'16	
	-12601 Sep 06 j 10:18	0°♓	
retrograde	-12601 Oct 12 j 20:49	6°♓58'30	
opposition	-12601 Nov 16 j 21:46	29°♒41'00	3°49'55
	-12601 Nov 16 j 00:22	30°℞♒	
greatest brilliancy	-12601 Nov 17 j 20:41	29°♒20'33	-2.0m
min. Earth dist.	-12601 Nov 24 j 16:01	26°♒55'31	0.51604 AU
direct	-12601 Dec 25 j 13:51	20°♒47'22	
	-12600 Feb 03 j 10:37	0°♓	
	-12600 Mar 28 j 18:25	0°♈	
	-12600 May 11 j 03:27	0°♉	
	-12600 Jun 20 j 18:39	0°♊	
desc. node	-12600 Jul 12 j 19:29	16°♊29'58	
	-12600 Jul 30 j 21:16	0°♋	
	-12600 Sep 09 j 15:21	0°♌	
	-12600 Oct 21 j 18:15	0°♍	
evening set	-12600 Nov 26 j 02:14	24°♍17'04	
	-12600 Dec 04 j 13:44	0°♎	
conjunction	-12599 Jan 16 j 03:49	28°♎09'01	-1°15'16
minimum elong	-12599 Jan 16 j 04:13	28°♎09'39	1°15'38
	-12599 Jan 18 j 24:00	0°♏	
max. Earth dist.	-12599 Jan 28 j 23:53	6°♏29'18	2.64016 AU
morning rise	-12599 Mar 06 j 03:57	29°♏43'49	
	-12599 Mar 06 j 14:06	0°♐	
	-12599 Apr 22 j 18:11	0°♑	
	-12599 Jun 09 j 04:20	0°♒	
asc. node	-12599 Jul 16 j 05:28	23°♒12'54	
	-12599 Jul 27 j 04:44	0°♓	
	-12599 Sep 15 j 16:24	0°♈	
	-12599 Nov 20 j 02:45	0°♉	
retrograde	-12599 Dec 16 j 17:58	4°♉04'33	
	-12598 Jan 12 j 08:16	30°℞♈	
opposition	-12598 Jan 16 j 23:32	28°♈41'59	7°12'09
greatest brilliancy	-12598 Jan 18 j 06:06	28°♈20'09	-2.7m
min. Earth dist.	-12598 Jan 22 j 00:28	27°♈16'04	0.40437 AU
direct	-12598 Feb 18 j 18:44	22°♈40'33	
	-12598 Mar 25 j 13:00	0°♉	
	-12598 May 20 j 14:15	0°♊	
desc. node	-12598 May 31 j 02:45	6°♊43'30	
	-12598 Jul 05 j 00:50	0°♋	
	-12598 Aug 17 j 21:15	0°♌	
	-12598 Oct 01 j 01:04	0°♍	
	-12598 Nov 15 j 04:30	0°♎	
	-12598 Dec 31 j 09:05	0°♏	
evening set	-12597 Jan 08 j 00:25	4°♏54'49	
	-12597 Feb 16 j 04:16	0°♐	
max. Earth dist.	-12597 Feb 23 j 06:15	4°♐31'58	2.66324 AU
conjunction	-12597 Feb 25 j 12:24	5°♐58'38	-0°53'22
minimum elong	-12597 Feb 25 j 13:58	6°♐01'09	0°54'04
	-12597 Apr 03 j 21:29	0°♑	
morning rise	-12597 Apr 13 j 15:59	6°♑19'19	
	-12597 May 19 j 21:46	0°♒	
asc. node	-12597 Jun 02 j 19:41	9°♒12'09	
	-12597 Jul 03 j 21:54	0°♓	
	-12597 Aug 17 j 00:41	0°♈	
	-12597 Sep 29 j 17:38	0°♉	
	-12597 Nov 13 j 04:39	0°♊	
	-12596 Jan 01 j 08:18	0°♋	
retrograde	-12596 Mar 01 j 06:05	19°♋17'16	
min. Earth dist.	-12596 Mar 28 j 17:58	14°♋34'38	0.41115 AU
opposition	-12596 Apr 04 j 00:40	12°♋41'21	0°58'45
greatest brilliancy	-12596 Apr 03 j 20:08	12°♋44'46	-2.7m
desc. node	-12596 Apr 17 j 07:25	9°♋05'28	
direct	-12596 May 05 j 02:28	7°♋03'15	
	-12596 Jul 14 j 17:36	0°♌	
	-12596 Sep 05 j 05:53	0°♍	
	-12596 Oct 24 j 00:22	0°♎	
	-12596 Dec 11 j 00:40	0°♏	
	-12595 Jan 27 j 15:48	0°♐	
evening set	-12595 Feb 15 j 15:33	12°♐04'49	
	-12595 Mar 15 j 12:02	0°♑	
max. Earth dist.	-12595 Mar 19 j 04:52	2°♑24'12	2.63334 AU
conjunction	-12595 Apr 04 j 23:25	13°♑22'11	-0°09'02

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

minimum elong	-12595 Apr 04 j 23:50	13°♉22'52	0°09'48
behind sun begin	-12595 Apr 04 j 07:49	12°♉56'33	
behind sun end	-12595 Apr 05 j 15:51	13°♉49'12	
asc. node	-12595 Apr 19 j 12:33	22°♉59'37	
	-12595 Apr 30 j 00:14	0°♒	
morning rise	-12595 May 22 j 19:47	15°♒27'56	
	-12595 Jun 12 j 20:26	0°♓	
	-12595 Jul 25 j 01:41	0°♈	
	-12595 Sep 04 j 00:12	0°♉	
	-12595 Oct 14 j 06:45	0°♊	
	-12595 Nov 23 j 19:41	0°♋	
	-12594 Jan 05 j 06:16	0°♌	
	-12594 Feb 23 j 01:33	0°♍	
desc. node	-12594 Mar 05 j 07:23	5°♍11'11	
retrograde	-12594 Apr 23 j 20:56	18°♍55'46	
min. Earth dist.	-12594 May 24 j 22:27	12°♍27'22	0.52788 AU
greatest brilliancy	-12594 May 31 j 02:18	10°♍09'00	-2.0m
opposition	-12594 Jun 01 j 06:50	9°♍42'12	-4°28'32
direct	-12594 Jul 06 j 04:39	2°♍03'59	
	-12594 Sep 26 j 21:08	0°♎	
	-12594 Nov 19 j 11:58	0°♏	
	-12593 Jan 08 j 06:11	0°♐	
	-12593 Feb 24 j 21:04	0°♑	
asc. node	-12593 Mar 07 j 10:31	6°♑49'54	
evening set	-12593 Mar 28 j 12:15	20°♑41'06	
	-12593 Apr 11 j 10:08	0°♒	
max. Earth dist.	-12593 Apr 17 j 16:05	4°♒13'53	2.55323 AU
conjunction	-12593 May 18 j 02:47	25°♒16'42	0°43'18
minimum elong	-12593 May 18 j 00:56	25°♒13'27	0°42'50
	-12593 May 24 j 19:17	0°♓	
	-12593 Jul 05 j 04:55	0°♈	
morning rise	-12593 Jul 09 j 03:11	2°♈54'43	
	-12593 Aug 14 j 02:02	0°♉	
	-12593 Sep 22 j 03:09	0°♊	
	-12593 Oct 31 j 04:26	0°♋	
	-12593 Dec 10 j 05:35	0°♌	
desc. node	-12592 Jan 21 j 02:21	29°♌40'09	
	-12592 Jan 21 j 14:01	0°♍	
	-12592 Mar 08 j 17:32	0°♎	
	-12592 May 17 j 03:13	0°♏	
retrograde	-12592 Jun 02 j 06:08	1°♏38'33	
	-12592 Jun 17 j 14:52	30°℞♎	
min. Earth dist.	-12592 Jul 08 j 02:28	23°♎20'25	0.62462 AU
greatest brilliancy	-12592 Jul 11 j 10:27	22°♎00'33	-1.5m
opposition	-12592 Jul 12 j 03:26	21°♎43'35	-5°18'56
direct	-12592 Aug 19 j 03:31	12°♎46'55	
	-12592 Oct 20 j 03:19	0°♏	
	-12592 Dec 16 j 08:33	0°♐	
asc. node	-12591 Jan 22 j 14:36	22°♐10'28	
	-12591 Feb 04 j 04:59	0°♑	
	-12591 Mar 22 j 10:51	0°♒	
	-12591 May 04 j 20:36	0°♓	
evening set	-12591 May 13 j 14:51	6°♓16'09	
max. Earth dist.	-12591 May 31 j 19:16	19°♓30'32	2.43736 AU
	-12591 Jun 14 j 22:40	0°♈	
conjunction	-12591 Jul 08 j 18:31	18°♈01'25	1°13'35
minimum elong	-12591 Jul 08 j 18:20	18°♈01'03	1°13'48
	-12591 Jul 24 j 08:24	0°♉	
	-12591 Aug 31 j 21:07	0°♊	
morning rise	-12591 Sep 07 j 11:10	5°♊08'47	
	-12591 Oct 09 j 09:50	0°♋	
	-12591 Nov 17 j 19:50	0°♌	
desc. node	-12591 Dec 07 j 17:05	14°♌41'04	
	-12591 Dec 29 j 00:18	0°♍	
	-12590 Feb 10 j 22:08	0°♎	
	-12590 Mar 31 j 06:22	0°♏	
	-12590 May 31 j 18:10	0°♐	
retrograde	-12590 Jul 07 j 23:40	7°♐24'15	
	-12590 Aug 10 j 23:01	30°℞♏	
opposition	-12590 Aug 16 j 17:37	27°♏41'44	-4°05'41
min. Earth dist.	-12590 Aug 16 j 11:51	27°♏47'32	0.66395 AU
greatest brilliancy	-12590 Aug 16 j 17:26	27°♏41'55	-1.4m
direct	-12590 Sep 25 j 16:35	18°♏00'40	
	-12590 Nov 14 j 14:55	0°♐	
asc. node	-12590 Dec 10 j 21:54	12°♐10'10	
	-12589 Jan 12 j 13:56	0°♑	
	-12589 Mar 02 j 02:58	0°♒	
	-12589 Apr 15 j 05:50	0°♓	
	-12589 May 26 j 11:16	0°♈	
	-12589 Jul 04 j 19:14	0°♉	
evening set	-12589 Jul 11 j 04:55	4°♉58'22	
	-12589 Aug 12 j 04:49	0°♊	
conjunction	-12589 Sep 11 j 11:05	23°♊40'22	0°32'32
minimum elong	-12589 Sep 11 j 13:51	23°♊45'45	0°33'16
	-12589 Sep 19 j 14:37	0°♋	
max. Earth dist.	-12589 Oct 19 j 02:10	22°♋36'14	2.40339 AU
desc. node	-12589 Oct 25 j 10:48	27°♋24'23	
	-12589 Oct 28 j 21:39	0°♌	
morning rise	-12589 Nov 14 j 04:17	12°♌05'57	
	-12589 Dec 08 j 20:03	0°♍	
	-12588 Jan 20 j 23:34	0°♎	
	-12588 Mar 06 j 20:08	0°♏	
	-12588 Apr 25 j 10:48	0°♐	
	-12588 Jun 23 j 15:44	0°♑	
retrograde	-12588 Aug 12 j 05:04	11°♑54'00	
opposition	-12588 Sep 19 j 18:27	2°♑50'54	-1°36'21
greatest brilliancy	-12588 Sep 19 j 23:51	2°♑45'33	-1.5m
min. Earth dist.	-12588 Sep 23 j 06:04	1°♑28'10	0.64137 AU
	-12588 Sep 27 j 00:50	30°℞♐	
asc. node	-12588 Oct 28 j 03:54	22°♐55'15	
direct	-12588 Oct 30 j 11:44	22°♐53'10	
	-12588 Dec 05 j 22:12	0°♑	
	-12587 Feb 04 j 19:47	0°♒	
	-12587 Mar 23 j 15:10	0°♓	
	-12587 May 04 j 19:18	0°♈	
	-12587 Jun 13 j 13:19	0°♉	
	-12587 Jul 22 j 05:15	0°♊	
	-12587 Aug 29 j 20:48	0°♋	
desc. node	-12587 Sep 11 j 08:57	9°♋35'39	
evening set	-12587 Sep 13 j 07:23	11°♋04'15	
	-12587 Oct 08 j 09:29	0°♌	
conjunction	-12587 Nov 11 j 11:27	24°♌58'05	-0°42'14
minimum elong	-12587 Nov 11 j 08:57	24°♌53'35	0°41'44
	-12587 Nov 18 j 12:08	0°♍	
max. Earth dist.	-12587 Dec 18 j 11:57	21°♍01'37	2.52286 AU
	-12587 Dec 31 j 14:41	0°♎	
morning rise	-12586 Jan 06 j 22:22	4°♎16'44	
	-12586 Feb 14 j 19:56	0°♏	
	-12586 Apr 03 j 03:07	0°♐	
	-12586 May 22 j 22:54	0°♑	
	-12586 Jul 17 j 15:24	0°♒	
asc. node	-12586 Sep 15 j 05:28	19°♒32'40	
retrograde	-12586 Sep 23 j 05:20	19°♒56'11	
opposition	-12586 Oct 29 j 12:18	12°♒01'01	2°05'23
greatest brilliancy	-12586 Oct 29 j 23:26	11°♒50'37	-1.8m
min. Earth dist.	-12586 Nov 05 j 08:38	9°♒27'52	0.56032 AU
direct	-12586 Dec 08 j 07:26	2°♒32'16	
	-12585 Feb 23 j 02:52	0°♓	
	-12585 Apr 10 j 15:23	0°♈	
	-12585 May 22 j 02:49	0°♉	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12585 Jun 30 j 19:28	0°♊	
desc. node	-12585 Jul 30 j 11:04	22°♊34'18	
	-12585 Aug 09 j 06:33	0°♋	
	-12585 Sep 18 j 12:15	0°♌	
	-12585 Oct 30 j 05:10	0°♍	
evening set	-12585 Nov 08 j 09:01	6°♍25'25	
	-12585 Dec 12 j 17:20	0°♎	
conjunction	-12585 Dec 31 j 05:17	12°♎23'25	-1°14'51
minimum elong	-12585 Dec 31 j 04:37	12°♎22'20	1°15'01
max. Earth dist.	-12584 Jan 19 j 13:50	25°♎09'43	2.61649 AU
	-12584 Jan 26 j 23:35	0°♏	
morning rise	-12584 Feb 19 j 16:34	15°♏20'35	
	-12584 Mar 13 j 14:43	0°♐	
	-12584 Apr 30 j 04:19	0°♑	
	-12584 Jun 17 j 15:45	0°♒	
asc. node	-12584 Aug 02 j 00:38	26°♒58'53	
	-12584 Aug 07 j 07:46	0°♓	
	-12584 Oct 06 j 21:41	0°♈	
retrograde	-12584 Nov 18 j 04:14	9°♈11'07	
opposition	-12584 Dec 20 j 17:09	3°♈05'53	6°27'43
greatest brilliancy	-12584 Dec 22 j 07:00	2°♈35'56	-2.4m
min. Earth dist.	-12584 Dec 28 j 04:44	0°♈44'21	0.44278 AU
	-12584 Dec 30 j 15:29	30°℞♓	
direct	-12583 Jan 25 j 07:38	25°♓47'35	
	-12583 Feb 19 j 21:16	0°♈	
	-12583 Apr 20 j 04:47	0°♉	
	-12583 Jun 03 j 17:14	0°♊	
desc. node	-12583 Jun 16 j 17:05	9°♊10'21	
	-12583 Jul 15 j 21:26	0°♋	
	-12583 Aug 27 j 00:48	0°♌	
	-12583 Oct 09 j 03:12	0°♍	
	-12583 Nov 22 j 14:41	0°♎	
evening set	-12583 Dec 22 j 23:05	19°♎57'41	
	-12582 Jan 07 j 09:57	0°♏	
conjunction	-12582 Feb 10 j 03:52	21°♏43'54	-1°05'13
minimum elong	-12582 Feb 10 j 05:16	21°♏46'09	1°05'49
max. Earth dist.	-12582 Feb 13 j 15:10	23°♏57'26	2.66052 AU
	-12582 Feb 23 j 01:30	0°♐	
morning rise	-12582 Mar 29 j 17:53	22°♐12'42	
	-12582 Apr 10 j 21:05	0°♑	
	-12582 May 27 j 07:00	0°♒	
asc. node	-12582 Jun 19 j 15:54	15°♒15'19	
	-12582 Jul 12 j 03:02	0°♓	
	-12582 Aug 26 j 17:12	0°♈	
	-12582 Oct 12 j 02:22	0°♉	
	-12582 Dec 01 j 22:11	0°♊	
retrograde	-12581 Feb 02 j 20:48	20°♊04'06	
min. Earth dist.	-12581 Mar 04 j 04:12	15°♊12'27	0.38722 AU
opposition	-12581 Mar 06 j 10:23	14°♊35'15	4°25'42
greatest brilliancy	-12581 Mar 06 j 06:31	14°♊37'55	-2.9m
direct	-12581 Apr 05 j 20:59	9°♊27'00	
desc. node	-12581 May 04 j 23:58	14°♊29'37	
	-12581 Jun 09 j 13:33	0°♋	
	-12581 Jul 31 j 03:27	0°♌	
	-12581 Sep 16 j 12:23	0°♍	
	-12581 Nov 02 j 08:19	0°♎	
	-12581 Dec 19 j 10:40	0°♏	
evening set	-12580 Feb 01 j 07:52	27°♏52'48	
	-12580 Feb 04 j 15:46	0°♐	
max. Earth dist.	-12580 Mar 09 j 07:47	21°♐33'10	2.65130 AU
conjunction	-12580 Mar 20 j 10:48	28°♐44'15	-0°28'07
minimum elong	-12580 Mar 20 j 11:55	28°♐46'02	0°28'54
	-12580 Mar 22 j 09:34	0°♑	
morning rise	-12580 May 06 j 16:54	29°♑46'32	

asc. node	-12580 May 06 j 07:27	29°♑30'47	
	-12580 May 07 j 00:58	0°♒	
	-12580 Jun 20 j 05:40	0°♓	
	-12580 Aug 02 j 00:14	0°♈	
	-12580 Sep 12 j 16:40	0°♉	
	-12580 Oct 23 j 22:10	0°♊	
	-12580 Dec 04 j 20:55	0°♋	
	-12579 Jan 19 j 09:38	0°♌	
desc. node	-12579 Mar 22 j 01:36	27°♌10'49	
retrograde	-12579 Apr 05 j 06:30	28°♌33'30	
min. Earth dist.	-12579 May 04 j 09:04	22°♌53'32	0.47977 AU
greatest brilliancy	-12579 May 11 j 08:41	20°♌26'02	-2.3m
opposition	-12579 May 12 j 07:34	20°♌05'46	-3°06'03
direct	-12579 Jun 14 j 18:07	13°♌11'03	
	-12579 Aug 13 j 05:37	0°♍	
	-12579 Oct 08 j 12:21	0°♎	
	-12579 Nov 28 j 00:36	0°♏	
	-12578 Jan 15 j 17:07	0°♐	
	-12578 Mar 03 j 22:48	0°♑	
evening set	-12578 Mar 12 j 04:10	5°♑20'01	
asc. node	-12578 Mar 24 j 03:32	13°♑09'56	
max. Earth dist.	-12578 Apr 05 j 06:32	21°♑11'09	2.59036 AU
	-12578 Apr 18 j 10:32	0°♒	
conjunction	-12578 Apr 30 j 12:42	8°♒11'53	0°23'19
minimum elong	-12578 Apr 30 j 11:41	8°♒10'09	0°22'40
	-12578 May 31 j 23:05	0°♓	
morning rise	-12578 Jun 19 j 08:48	13°♓06'01	
	-12578 Jul 12 j 14:55	0°♈	
	-12578 Aug 21 j 19:49	0°♉	
	-12578 Sep 30 j 05:16	0°♊	
	-12578 Nov 08 j 15:40	0°♋	
	-12578 Dec 19 j 05:29	0°♌	
	-12577 Jan 31 j 16:59	0°♍	
desc. node	-12577 Feb 06 j 21:46	4°♍00'26	
	-12577 Mar 24 j 01:02	0°♎	
retrograde	-12577 May 19 j 11:25	16°♎28'05	
min. Earth dist.	-12577 Jun 22 j 13:41	8°♎49'22	0.59289 AU
greatest brilliancy	-12577 Jun 27 j 01:35	7°♎03'16	-1.7m
opposition	-12577 Jun 28 j 01:16	6°♎39'58	-5°19'31
	-12577 Jul 18 j 08:56	30°℞♍	
direct	-12577 Aug 03 j 23:52	28°♍09'03	
	-12577 Aug 21 j 17:41	0°♎	
	-12577 Nov 03 j 03:14	0°♏	
	-12577 Dec 26 j 01:45	0°♐	
asc. node	-12576 Feb 09 j 04:35	27°♐42'56	
	-12576 Feb 12 j 19:04	0°♑	
	-12576 Mar 29 j 16:29	0°♒	
evening set	-12576 Apr 24 j 03:35	17°♒24'48	
max. Earth dist.	-12576 May 10 j 12:57	28°♒55'27	2.48509 AU
	-12576 May 12 j 01:19	0°♓	
conjunction	-12576 Jun 16 j 16:01	25°♓51'37	1°07'37
minimum elong	-12576 Jun 16 j 14:13	25°♓48'17	1°07'33
	-12576 Jun 22 j 05:46	0°♈	
	-12576 Jul 31 j 19:15	0°♉	
morning rise	-12576 Aug 12 j 13:48	9°♉05'20	
	-12576 Sep 08 j 11:40	0°♊	
	-12576 Oct 17 j 03:42	0°♋	
	-12576 Nov 25 j 17:09	0°♌	
desc. node	-12576 Dec 24 j 15:36	21°♌08'16	
	-12575 Jan 06 j 03:33	0°♍	
	-12575 Feb 19 j 17:47	0°♎	
	-12575 Apr 11 j 14:07	0°♏	
retrograde	-12575 Jun 24 j 07:51	24°♏06'46	
min. Earth dist.	-12575 Aug 01 j 13:01	14°♏57'20	0.65588 AU
opposition	-12575 Aug 03 j 06:38	14°♏15'25	-4°44'13

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

greatest brilliancy	-12575 Aug 03 j 00:33	14°♏21'32	-1.4m
direct	-12575 Sep 11 j 14:42	4°♏48'24	
	-12575 Nov 29 j 04:24	0°♐	
asc. node	-12575 Dec 27 j 10:31	15°♐12'48	
	-12574 Jan 21 j 16:28	0°♑	
	-12574 Mar 10 j 00:47	0°♒	
	-12574 Apr 22 j 18:51	0°♓	
	-12574 Jun 02 j 22:00	0°♈	
evening set	-12574 Jun 16 j 21:09	10°♈31'43	
	-12574 Jul 12 j 06:03	0°♉	
max. Earth dist.	-12574 Aug 10 j 15:36	22°♉55'41	2.38429 AU
conjunction	-12574 Aug 16 j 07:45	27°♉22'27	0°58'11
minimum elong	-12574 Aug 16 j 10:58	27°♉28'46	0°58'49
	-12574 Aug 19 j 16:08	0°♊	
	-12574 Sep 27 j 02:13	0°♋	
morning rise	-12574 Oct 19 j 15:13	17°♋19'57	
	-12574 Nov 05 j 09:18	0°♌	
desc. node	-12574 Nov 11 j 07:20	4°♌25'30	
	-12574 Dec 16 j 08:09	0°♍	
	-12573 Jan 28 j 15:16	0°♎	
	-12573 Mar 16 j 01:22	0°♏	
	-12573 May 06 j 18:01	0°♐	
retrograde	-12573 Jul 29 j 18:53	28°♐32'31	
opposition	-12573 Sep 06 j 22:34	19°♐11'01	-2°42'29
greatest brilliancy	-12573 Sep 07 j 03:51	19°♐05'44	-1.4m
min. Earth dist.	-12573 Sep 08 j 23:30	18°♐22'07	0.65746 AU
direct	-12573 Oct 17 j 12:50	9°♐16'03	
asc. node	-12573 Nov 14 j 17:37	13°♐39'50	
	-12573 Dec 25 j 00:18	0°♑	
	-12572 Feb 15 j 20:29	0°♒	
	-12572 Apr 01 j 04:46	0°♓	
	-12572 May 12 j 20:51	0°♈	
	-12572 Jun 21 j 09:20	0°♉	
	-12572 Jul 29 j 21:28	0°♊	
evening set	-12572 Aug 19 j 08:50	15°♊59'52	
	-12572 Sep 06 j 09:32	0°♋	
desc. node	-12572 Sep 28 j 02:15	16°♋38'56	
	-12572 Oct 15 j 18:49	0°♌	
conjunction	-12572 Oct 19 j 18:47	2°♌59'14	-0°16'07
minimum elong	-12572 Oct 19 j 17:33	2°♌56'56	0°15'26
behind sun begin	-12572 Oct 19 j 10:16	2°♌43'21	
behind sun end	-12572 Oct 20 j 00:50	3°♌10'31	
	-12572 Nov 25 j 18:25	0°♍	
max. Earth dist.	-12572 Dec 01 j 07:16	3°♍56'39	2.47597 AU
morning rise	-12572 Dec 18 j 07:25	15°♍54'03	
	-12571 Jan 07 j 19:39	0°♎	
	-12571 Feb 22 j 03:45	0°♏	
	-12571 Apr 11 j 00:38	0°♐	
	-12571 Jun 01 j 18:02	0°♑	
	-12571 Aug 07 j 22:17	0°♒	
retrograde	-12571 Sep 05 j 18:06	4°♒31'43	
asc. node	-12571 Oct 01 j 21:10	0°♒08'26	
	-12571 Oct 02 j 07:34	30°℞♑	
opposition	-12571 Oct 13 j 02:05	26°♑05'39	0°30'30
greatest brilliancy	-12571 Oct 13 j 04:19	26°♑03'30	-1.7m
min. Earth dist.	-12571 Oct 18 j 17:01	23°♑55'54	0.59840 AU
direct	-12571 Nov 22 j 12:44	16°♑17'24	
	-12570 Jan 13 j 06:03	0°♒	
	-12570 Mar 07 j 15:48	0°♓	
	-12570 Apr 20 j 14:03	0°♈	
	-12570 May 31 j 02:37	0°♉	
	-12570 Jul 09 j 05:58	0°♊	
desc. node	-12570 Aug 16 j 03:02	29°♊07'14	
	-12570 Aug 17 j 06:41	0°♋	
	-12570 Sep 26 j 03:31	0°♌	
evening set	-12570 Oct 19 j 01:45	16°♌46'32	
	-12570 Nov 06 j 12:52	0°♍	
conjunction	-12570 Dec 13 j 03:34	25°♍27'48	-1°08'02
minimum elong	-12570 Dec 13 j 01:47	25°♍24'46	1°07'58
	-12570 Dec 19 j 19:39	0°♎	
max. Earth dist.	-12569 Jan 08 j 10:05	13°♎09'54	2.58537 AU
	-12569 Feb 02 j 23:43	0°♏	
morning rise	-12569 Feb 03 j 13:07	0°♏21'49	
	-12569 Mar 21 j 18:26	0°♐	
	-12569 May 08 j 22:17	0°♑	
	-12569 Jun 28 j 00:46	0°♒	
asc. node	-12569 Aug 19 j 19:15	28°♒26'40	
	-12569 Aug 23 j 01:50	0°♓	
retrograde	-12569 Oct 25 j 09:56	18°♓06'30	
opposition	-12569 Nov 28 j 14:24	11°♓13'35	4°51'06
greatest brilliancy	-12569 Nov 29 j 20:18	10°♓47'52	-2.2m
min. Earth dist.	-12569 Dec 06 j 14:29	8°♓28'58	0.48961 AU
direct	-12568 Jan 05 j 09:29	2°♓48'19	
	-12568 Mar 19 j 13:26	0°♈	
	-12568 May 04 j 04:37	0°♉	
	-12568 Jun 14 j 17:31	0°♊	
desc. node	-12568 Jul 03 j 08:06	13°♊43'34	
	-12568 Jul 25 j 09:04	0°♋	
	-12568 Sep 04 j 12:16	0°♌	
	-12568 Oct 16 j 21:26	0°♍	
	-12568 Nov 29 j 21:07	0°♎	
evening set	-12568 Dec 06 j 03:45	4°♎11'37	
	-12567 Jan 14 j 09:23	0°♏	
conjunction	-12567 Jan 25 j 10:32	7°♏09'45	-1°12'57
minimum elong	-12567 Jan 25 j 11:23	7°♏11'09	1°13'25
max. Earth dist.	-12567 Feb 03 j 20:36	13°♏14'40	2.64967 AU
	-12567 Mar 01 j 23:13	0°♐	
morning rise	-12567 Mar 14 j 19:53	8°♐13'05	
	-12567 Apr 17 j 23:33	0°♑	
	-12567 Jun 03 j 23:28	0°♒	
asc. node	-12567 Jul 06 j 12:02	20°♒45'37	
	-12567 Jul 21 j 00:51	0°♓	
	-12567 Sep 07 j 02:51	0°♈	
	-12567 Oct 29 j 21:43	0°♉	
retrograde	-12566 Jan 03 j 07:31	20°♉15'06	
opposition	-12566 Feb 03 j 01:13	15°♉05'41	6°49'04
greatest brilliancy	-12566 Feb 03 j 20:12	14°♉52'48	-2.8m
min. Earth dist.	-12566 Feb 05 j 20:20	14°♉20'13	0.39057 AU
direct	-12566 Mar 06 j 11:44	9°♉38'36	
	-12566 May 08 j 09:35	0°♊	
desc. node	-12566 May 21 j 14:11	7°♊23'34	
	-12566 Jun 27 j 03:10	0°♋	
	-12566 Aug 11 j 14:19	0°♌	
	-12566 Sep 25 j 14:05	0°♍	
	-12566 Nov 10 j 05:01	0°♎	
	-12566 Dec 26 j 15:51	0°♏	
evening set	-12565 Jan 16 j 23:52	13°♏39'19	
	-12565 Feb 11 j 13:51	0°♐	
max. Earth dist.	-12565 Feb 28 j 20:27	11°♐03'13	2.66131 AU
conjunction	-12565 Mar 06 j 05:58	14°♐30'53	-0°44'56
minimum elong	-12565 Mar 06 j 07:28	14°♐33'17	0°45'40
	-12565 Mar 30 j 06:58	0°♑	
morning rise	-12565 Apr 22 j 07:30	14°♑58'11	
	-12565 May 15 j 03:46	0°♒	
asc. node	-12565 May 24 j 02:33	5°♒56'28	
	-12565 Jun 28 j 20:26	0°♓	
	-12565 Aug 11 j 10:01	0°♈	
	-12565 Sep 23 j 05:49	0°♉	
	-12565 Nov 05 j 03:06	0°♊	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12565 Dec 20 j 03:28	0°♋	
	-12564 Feb 16 j 17:00	0°♌	
retrograde	-12564 Mar 14 j 23:19	4°♌46'29	
desc. node	-12564 Apr 07 j 19:30	0°♌57'49	
	-12564 Apr 11 j 00:35	30°℞♋	
min. Earth dist.	-12564 Apr 11 j 14:06	29°♋49'32	0.43262 AU
opposition	-12564 Apr 18 j 23:47	27°♋27'25	-0°46'59
greatest brilliancy	-12564 Apr 18 j 17:53	27°♋32'10	-2.6m
direct	-12564 May 20 j 21:58	21°♋22'48	
	-12564 Jun 29 j 16:28	0°♌	
	-12564 Aug 28 j 17:36	0°♍	
	-12564 Oct 18 j 05:52	0°♎	
	-12564 Dec 05 j 23:08	0°♏	
	-12563 Jan 22 j 22:06	0°♐	
evening set	-12563 Feb 24 j 12:28	20°♐43'56	
	-12563 Mar 10 j 21:33	0°♑	
max. Earth dist.	-12563 Mar 25 j 06:16	9°♑21'11	2.62013 AU
asc. node	-12563 Apr 09 j 20:04	19°♑36'41	
conjunction	-12563 Apr 14 j 02:16	22°♑26'24	0°02'42
minimum elong	-12563 Apr 14 j 02:09	22°♑26'12	0°01'58
behind sun begin	-12563 Apr 13 j 06:06	21°♑52'53	
behind sun end	-12563 Apr 14 j 22:11	22°♑59'33	
	-12563 Apr 25 j 09:35	0°♒	
morning rise	-12563 Jun 01 j 11:20	25°♒20'58	
	-12563 Jun 08 j 03:11	0°♓	
	-12563 Jul 20 j 03:25	0°♈	
	-12563 Aug 29 j 19:11	0°♉	
	-12563 Oct 08 j 17:01	0°♊	
	-12563 Nov 17 j 18:05	0°♋	
	-12563 Dec 29 j 06:41	0°♌	
	-12562 Feb 13 j 03:02	0°♍	
desc. node	-12562 Feb 23 j 18:33	6°♍10'31	
retrograde	-12562 May 03 j 14:06	29°♍44'28	
min. Earth dist.	-12562 Jun 04 j 18:02	22°♍50'24	0.55267 AU
greatest brilliancy	-12562 Jun 10 j 08:40	20°♍41'37	-1.9m
opposition	-12562 Jun 11 j 12:51	20°♍14'37	-4°56'22
direct	-12562 Jul 17 j 05:10	12°♍15'52	
	-12562 Sep 17 j 14:33	0°♎	
	-12562 Nov 13 j 11:13	0°♏	
	-12561 Jan 03 j 03:15	0°♐	
	-12561 Feb 20 j 02:48	0°♑	
asc. node	-12561 Feb 25 j 19:05	3°♑38'59	
	-12561 Apr 06 j 18:58	0°♒	
evening set	-12561 Apr 07 j 05:52	0°♒18'23	
max. Earth dist.	-12561 Apr 25 j 11:56	12°♒44'39	2.53033 AU
	-12561 May 20 j 04:27	0°♓	
conjunction	-12561 May 28 j 17:18	6°♓05'04	0°53'34
minimum elong	-12561 May 28 j 15:13	6°♓01'19	0°53'13
	-12561 Jun 30 j 12:21	0°♈	
morning rise	-12561 Jul 21 j 06:12	15°♈31'58	
	-12561 Aug 09 j 06:42	0°♉	
	-12561 Sep 17 j 04:16	0°♊	
	-12561 Oct 26 j 01:22	0°♋	
	-12561 Dec 04 j 20:56	0°♌	
desc. node	-12560 Jan 11 j 11:39	27°♌01'58	
	-12560 Jan 15 j 18:18	0°♍	
	-12560 Mar 01 j 14:33	0°♎	
	-12560 Apr 27 j 11:26	0°♏	
retrograde	-12560 Jun 10 j 10:39	10°♏19'03	
min. Earth dist.	-12560 Jul 17 j 04:39	1°♏41'27	0.63831 AU
opposition	-12560 Jul 20 j 10:02	0°♏23'51	-5°10'30
greatest brilliancy	-12560 Jul 19 j 21:04	0°♏36'51	-1.5m
	-12560 Jul 21 j 09:53	30°℞♎	
direct	-12560 Aug 27 j 22:49	21°♎15'10	
	-12560 Oct 08 j 14:05	0°♏	

	-12560 Dec 10 j 02:33	0°♐	
asc. node	-12559 Jan 12 j 23:45	19°♐37'17	
	-12559 Jan 29 j 23:57	0°♑	
	-12559 Mar 17 j 14:34	0°♒	
	-12559 Apr 30 j 03:45	0°♓	
evening set	-12559 May 25 j 11:16	18°♓17'12	
	-12559 Jun 10 j 06:37	0°♈	
max. Earth dist.	-12559 Jun 18 j 00:03	5°♈47'56	2.41315 AU
	-12559 Jul 19 j 16:02	0°♉	
conjunction	-12559 Jul 22 j 04:06	1°♉56'12	1°11'50
minimum elong	-12559 Jul 22 j 05:17	1°♉58'30	1°12'14
	-12559 Aug 27 j 03:37	0°♊	
morning rise	-12559 Sep 22 j 15:34	20°♊42'27	
	-12559 Oct 04 j 14:44	0°♋	
	-12559 Nov 12 j 22:42	0°♌	
desc. node	-12559 Nov 28 j 03:40	11°♌17'49	
	-12559 Dec 23 j 23:34	0°♍	
	-12558 Feb 05 j 13:34	0°♎	
	-12558 Mar 24 j 22:41	0°♏	
	-12558 May 19 j 19:57	0°♐	
retrograde	-12558 Jul 15 j 21:12	15°♐24'18	
opposition	-12558 Aug 24 j 11:23	5°♐48'15	-3°38'11
greatest brilliancy	-12558 Aug 24 j 13:45	5°♐45'51	-1.4m
min. Earth dist.	-12558 Aug 25 j 01:17	5°♐34'16	0.66421 AU
	-12558 Sep 09 j 01:36	30°℞♏	
direct	-12558 Oct 03 j 17:22	26°♏01'03	
	-12558 Oct 30 j 13:50	0°♐	
asc. node	-12558 Dec 01 j 07:14	11°♐48'52	
	-12557 Jan 06 j 00:23	0°♑	
	-12557 Feb 24 j 17:17	0°♒	
	-12557 Apr 10 j 05:36	0°♓	
	-12557 May 21 j 14:46	0°♈	
	-12557 Jun 30 j 00:34	0°♉	
evening set	-12557 Jul 25 j 15:06	19°♉56'55	
	-12557 Aug 07 j 11:00	0°♊	
	-12557 Sep 14 j 21:12	0°♋	
conjunction	-12557 Sep 26 j 01:43	8°♋38'06	0°14'59
minimum elong	-12557 Sep 26 j 03:06	8°♋40'46	0°15'44
behind sun begin	-12557 Sep 25 j 20:42	8°♋28'27	
behind sun end	-12557 Sep 26 j 09:31	8°♋53'06	
desc. node	-12557 Oct 15 j 21:36	23°♋45'45	
	-12557 Oct 24 j 04:23	0°♌	
max. Earth dist.	-12557 Nov 07 j 19:44	10°♌53'54	2.42751 AU
morning rise	-12557 Nov 27 j 13:06	25°♌17'53	
	-12557 Dec 04 j 02:05	0°♍	
	-12556 Jan 16 j 03:18	0°♎	
	-12556 Mar 01 j 17:06	0°♏	
	-12556 Apr 19 j 11:41	0°♐	
	-12556 Jun 13 j 16:51	0°♑	
retrograde	-12556 Aug 20 j 19:33	20°♑11'48	
opposition	-12556 Sep 28 j 00:03	11°♑20'27	-0°53'10
greatest brilliancy	-12556 Sep 28 j 03:49	11°♑16'45	-1.5m
min. Earth dist.	-12556 Oct 02 j 06:34	9°♑39'53	0.62851 AU
asc. node	-12556 Oct 18 j 13:19	4°♑06'35	
direct	-12556 Nov 07 j 17:30	1°♑23'43	
	-12555 Jan 28 j 11:46	0°♒	
	-12555 Mar 17 j 19:55	0°♓	
	-12555 Apr 29 j 11:50	0°♈	
	-12555 Jun 08 j 11:23	0°♉	
	-12555 Jul 17 j 06:33	0°♊	
	-12555 Aug 25 j 00:30	0°♋	
desc. node	-12555 Sep 01 j 19:04	5°♋57'27	
evening set	-12555 Sep 26 j 20:18	24°♋55'46	
	-12555 Oct 03 j 15:16	0°♌	
	-12555 Nov 13 j 19:19	0°♍	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

conjunction	-12555 Nov 23 j 12:28	6°♍52'59	-0°53'53
minimum elong	-12555 Nov 23 j 09:57	6°♍48'33	0°53'32
	-12555 Dec 26 j 22:23	0°♎	
max. Earth dist.	-12555 Dec 26 j 19:07	29°♍54'28	2.54710 AU
morning rise	-12554 Jan 17 j 08:54	14°♎24'32	
	-12554 Feb 10 j 01:57	0°♏	
	-12554 Mar 29 j 03:00	0°♐	
	-12554 May 17 j 04:21	0°♑	
	-12554 Jul 09 j 01:41	0°♒	
asc. node	-12554 Sep 05 j 13:20	25°♒20'42	
retrograde	-12554 Oct 04 j 01:18	29°♒48'03	
opposition	-12554 Nov 08 j 16:41	22°♒12'43	3°04'01
greatest brilliancy	-12554 Nov 09 j 10:18	21°♒56'39	-1.9m
min. Earth dist.	-12554 Nov 16 j 03:05	19°♒30'26	0.53663 AU
direct	-12554 Dec 17 j 23:28	13°♒00'52	
	-12553 Feb 12 j 21:46	0°♓	
	-12553 Apr 03 j 17:16	0°♈	
	-12553 May 16 j 03:28	0°♉	
	-12553 Jun 25 j 07:23	0°♊	
desc. node	-12553 Jul 20 j 23:20	19°♊23'07	
	-12553 Aug 04 j 01:46	0°♋	
	-12553 Sep 13 j 13:03	0°♌	
	-12553 Oct 25 j 10:00	0°♍	
evening set	-12553 Nov 19 j 06:32	17°♍14'38	
	-12553 Dec 08 j 00:59	0°♎	
conjunction	-12552 Jan 10 j 01:44	21°♎58'04	-1°15'47
minimum elong	-12552 Jan 10 j 01:42	21°♎58'01	1°16'05
	-12552 Jan 22 j 08:20	0°♏	
max. Earth dist.	-12552 Jan 25 j 18:52	2°♏14'20	2.63062 AU
morning rise	-12552 Feb 28 j 15:58	24°♏04'59	
	-12552 Mar 08 j 22:13	0°♐	
	-12552 Apr 25 j 05:49	0°♑	
	-12552 Jun 12 j 01:41	0°♒	
asc. node	-12552 Jul 23 j 07:29	25°♒21'03	
	-12552 Jul 31 j 01:10	0°♓	
	-12552 Sep 22 j 08:04	0°♈	
retrograde	-12552 Dec 03 j 18:41	23°♈07'06	
opposition	-12551 Jan 04 j 13:23	17°♈27'03	7°02'49
greatest brilliancy	-12551 Jan 06 j 01:38	16°♈59'53	-2.6m
min. Earth dist.	-12551 Jan 10 j 23:15	15°♈32'31	0.41993 AU
direct	-12551 Feb 07 j 14:43	10°♈51'39	
	-12551 Apr 08 j 05:17	0°♉	
	-12551 May 26 j 19:13	0°♊	
desc. node	-12551 Jun 07 j 06:51	7°♊45'21	
	-12551 Jul 09 j 10:46	0°♋	
	-12551 Aug 21 j 09:35	0°♌	
	-12551 Oct 03 j 23:50	0°♍	
	-12551 Nov 17 j 18:42	0°♎	
evening set	-12550 Jan 01 j 06:28	29°♎02'30	
	-12550 Jan 02 j 18:04	0°♏	
	-12550 Feb 18 j 11:16	0°♐	
conjunction	-12550 Feb 19 j 00:47	0°♐21'38	-0°58'47
minimum elong	-12550 Feb 19 j 02:20	0°♐24'06	0°59'27
max. Earth dist.	-12550 Feb 19 j 07:02	0°♐31'38	2.66312 AU
	-12550 Apr 06 j 05:32	0°♑	
morning rise	-12550 Apr 07 j 07:45	0°♑42'14	
	-12550 May 22 j 10:11	0°♒	
asc. node	-12550 Jun 09 j 22:11	12°♒09'59	
	-12550 Jul 06 j 18:59	0°♓	
	-12550 Aug 20 j 11:48	0°♈	
	-12550 Oct 04 j 04:10	0°♉	
	-12550 Nov 19 j 12:13	0°♊	
	-12549 Jan 15 j 08:10	0°♋	
retrograde	-12549 Feb 18 j 20:18	7°♋13'14	
min. Earth dist.	-12549 Mar 18 j 18:23	2°♋33'20	0.39743 AU
opposition	-12549 Mar 23 j 13:05	1°♋11'10	2°29'06
greatest brilliancy	-12549 Mar 23 j 05:28	1°♋16'37	-2.8m
	-12549 Mar 27 j 18:06	30°℞♊	
direct	-12549 Apr 23 j 02:31	25°♊50'49	
desc. node	-12549 Apr 25 j 12:16	25°♊53'03	
	-12549 May 19 j 15:00	0°♋	
	-12549 Jul 22 j 11:59	0°♌	
	-12549 Sep 10 j 05:14	0°♍	
	-12549 Oct 28 j 00:12	0°♎	
	-12549 Dec 14 j 13:32	0°♏	
	-12548 Jan 30 j 24:00	0°♐	
evening set	-12548 Feb 10 j 03:23	6°♐27'09	
max. Earth dist.	-12548 Mar 15 j 03:32	28°♐16'30	2.64242 AU
	-12548 Mar 17 j 19:28	0°♑	
conjunction	-12548 Mar 29 j 07:49	7°♑29'17	-0°17'19
minimum elong	-12548 Mar 29 j 08:33	7°♑30'29	0°18'04
asc. node	-12548 Apr 26 j 14:04	26°♑06'54	
	-12548 May 02 j 09:44	0°♒	
morning rise	-12548 May 15 j 20:13	9°♒02'13	
	-12548 Jun 15 j 10:33	0°♓	
	-12548 Jul 27 j 22:06	0°♈	
	-12548 Sep 07 j 04:32	0°♉	
	-12548 Oct 17 j 20:10	0°♊	
	-12548 Nov 27 j 20:52	0°♋	
	-12547 Jan 10 j 05:53	0°♌	
	-12547 Mar 04 j 00:16	0°♍	
desc. node	-12547 Mar 12 j 12:45	3°♍33'11	
retrograde	-12547 Apr 16 j 03:17	10°♍54'18	
min. Earth dist.	-12547 May 16 j 07:21	4°♍48'07	0.50651 AU
greatest brilliancy	-12547 May 22 j 21:25	2°♍23'43	-2.1m
opposition	-12547 May 24 j 00:53	1°♍58'32	-3°59'24
	-12547 May 29 j 14:20	30°℞♌	
direct	-12547 Jun 27 j 06:57	24°♌39'01	
	-12547 Jul 28 j 06:06	0°♍	
	-12547 Oct 01 j 10:08	0°♎	
	-12547 Nov 22 j 12:20	0°♏	
	-12546 Jan 10 j 19:00	0°♐	
	-12546 Feb 27 j 06:22	0°♑	
asc. node	-12546 Mar 14 j 10:56	9°♑51'26	
evening set	-12546 Mar 21 j 11:11	14°♑27'12	
max. Earth dist.	-12546 Apr 12 j 05:21	28°♑55'29	2.57064 AU
	-12546 Apr 13 j 19:42	0°♒	
conjunction	-12546 May 10 j 10:35	18°♒11'39	0°35'00
minimum elong	-12546 May 10 j 09:04	18°♒09'01	0°34'27
	-12546 May 27 j 07:28	0°♓	
morning rise	-12546 Jun 30 j 08:55	24°♓29'59	
	-12546 Jul 07 j 20:37	0°♈	
	-12546 Aug 16 j 21:46	0°♉	
	-12546 Sep 25 j 02:40	0°♊	
	-12546 Nov 03 j 07:17	0°♋	
	-12546 Dec 13 j 12:29	0°♌	
	-12545 Jan 25 j 04:45	0°♍	
desc. node	-12545 Jan 28 j 08:47	2°♍07'15	
	-12545 Mar 14 j 12:25	0°♎	
retrograde	-12545 May 28 j 01:35	25°♎43'43	
min. Earth dist.	-12545 Jul 02 j 03:53	17°♎42'52	0.61142 AU
opposition	-12545 Jul 06 j 20:45	15°♎50'54	-5°21'45
greatest brilliancy	-12545 Jul 06 j 00:39	16°♎10'51	-1.6m
direct	-12545 Aug 13 j 10:29	7°♎05'05	
	-12545 Oct 26 j 07:21	0°♏	
	-12545 Dec 20 j 10:44	0°♐	
asc. node	-12544 Jan 30 j 13:54	24°♐50'13	
	-12544 Feb 07 j 19:44	0°♑	
	-12544 Mar 24 j 22:55	0°♒	
evening set	-12544 May 05 j 00:50	28°♒19'29	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12544 May 07 j 09:31	0°♓	
max. Earth dist.	-12544 May 21 j 14:34	10°♓11'26	2.45853 AU
	-12544 Jun 17 j 13:28	0°♈	
conjunction	-12544 Jun 28 j 22:50	8°♈32'41	1°12'15
minimum elong	-12544 Jun 28 j 21:48	8°♈30'43	1°12'22
	-12544 Jul 27 j 01:29	0°♉	
morning rise	-12544 Aug 26 j 23:20	23°♉59'51	
	-12544 Sep 03 j 15:59	0°♊	
	-12544 Oct 12 j 05:42	0°♋	
	-12544 Nov 20 j 16:20	0°♌	
desc. node	-12544 Dec 15 j 00:10	17°♌54'12	
	-12544 Dec 31 j 21:46	0°♍	
	-12543 Feb 13 j 23:43	0°♎	
	-12543 Apr 04 j 01:22	0°♏	
	-12543 Jun 12 j 21:19	0°♐	
retrograde	-12543 Jul 02 j 04:41	2°♐13'36	
	-12543 Jul 20 j 08:58	30°℞♏	
min. Earth dist.	-12543 Aug 10 j 04:07	22°♏48'30	0.66158 AU
opposition	-12543 Aug 11 j 01:48	22°♏26'40	-4°23'14
greatest brilliancy	-12543 Aug 10 j 23:11	22°♏29'19	-1.4m
direct	-12543 Sep 19 j 19:11	12°♏51'22	
	-12543 Nov 20 j 14:50	0°♐	
asc. node	-12543 Dec 17 j 21:05	13°♐37'43	
	-12542 Jan 15 j 21:20	0°♑	
	-12542 Mar 04 j 22:39	0°♒	
	-12542 Apr 17 j 23:03	0°♓	
	-12542 May 29 j 04:25	0°♈	
evening set	-12542 Jun 30 j 09:54	24°♈29'27	
	-12542 Jul 07 j 13:01	0°♉	
	-12542 Aug 14 j 22:51	0°♊	
conjunction	-12542 Aug 31 j 01:42	12°♊38'11	0°44'48
minimum elong	-12542 Aug 31 j 05:03	12°♊44'45	0°45'31
	-12542 Sep 22 j 08:11	0°♋	
max. Earth dist.	-12542 Sep 23 j 19:03	1°♋07'35	2.38872 AU
	-12542 Oct 31 j 14:18	0°♌	
desc. node	-12542 Nov 01 j 16:36	0°♌49'20	
morning rise	-12542 Nov 03 j 09:25	2°♌05'46	
	-12542 Dec 11 j 11:32	0°♍	
	-12541 Jan 23 j 14:48	0°♎	
	-12541 Mar 10 j 14:40	0°♏	
	-12541 Apr 29 j 20:43	0°♐	
	-12541 Jul 02 j 14:42	0°♑	
retrograde	-12541 Aug 06 j 23:46	6°♑36'45	
	-12541 Sep 08 j 05:23	30°℞♐	
opposition	-12541 Sep 14 j 20:34	27°♐24'55	-2°05'22
greatest brilliancy	-12541 Sep 15 j 02:15	27°♐19'16	-1.4m
min. Earth dist.	-12541 Sep 17 j 16:59	26°♐16'58	0.64982 AU
direct	-12541 Oct 25 j 13:49	17°♐27'46	
asc. node	-12541 Nov 05 j 03:14	18°♐08'29	
	-12541 Dec 15 j 00:56	0°♑	
	-12540 Feb 09 j 15:24	0°♒	
	-12540 Mar 26 j 19:58	0°♓	
	-12540 May 07 j 19:41	0°♈	
	-12540 Jun 16 j 11:52	0°♉	
	-12540 Jul 25 j 02:10	0°♊	
	-12540 Sep 01 j 15:33	0°♋	
evening set	-12540 Sep 02 j 14:45	0°♋44'48	
desc. node	-12540 Sep 18 j 14:01	13°♋00'11	
	-12540 Oct 11 j 01:42	0°♌	
conjunction	-12540 Nov 01 j 22:02	16°♌09'26	-0°31'47
minimum elong	-12540 Nov 01 j 19:51	16°♌05'27	0°31'13
	-12540 Nov 21 j 01:36	0°♍	
max. Earth dist.	-12540 Dec 11 j 19:52	14°♍39'57	2.50220 AU
morning rise	-12540 Dec 29 j 17:53	27°♍02'35	
	-12539 Jan 03 j 01:58	0°♎	
	-12539 Feb 17 j 06:51	0°♏	
	-12539 Apr 05 j 18:01	0°♐	
	-12539 May 26 j 04:52	0°♑	
	-12539 Jul 23 j 19:26	0°♒	
retrograde	-12539 Sep 15 j 11:46	13°♒36'05	
asc. node	-12539 Sep 22 j 05:33	13°♒18'33	
opposition	-12539 Oct 22 j 07:04	5°♒26'19	1°23'37
greatest brilliancy	-12539 Oct 22 j 13:56	5°♒19'48	-1.8m
min. Earth dist.	-12539 Oct 28 j 15:28	3°♒02'11	0.57835 AU
	-12539 Nov 06 j 07:32	30°℞♑	
direct	-12539 Dec 01 j 11:08	25°♑47'09	
	-12539 Dec 28 j 01:47	0°♒	
	-12538 Feb 28 j 07:38	0°♓	
	-12538 Apr 14 j 13:44	0°♈	
	-12538 May 25 j 14:38	0°♉	
	-12538 Jul 04 j 01:02	0°♊	
desc. node	-12538 Aug 06 j 15:28	25°♊42'51	
	-12538 Aug 12 j 06:39	0°♋	
	-12538 Sep 21 j 07:20	0°♌	
evening set	-12538 Oct 30 j 20:16	28°♌36'15	
	-12538 Nov 01 j 19:33	0°♍	
	-12538 Dec 15 j 03:55	0°♎	
conjunction	-12538 Dec 23 j 15:42	5°♎43'40	-1°12'46
minimum elong	-12538 Dec 23 j 14:33	5°♎41'45	1°12'49
max. Earth dist.	-12537 Jan 15 j 03:42	20°♎42'08	2.60341 AU
	-12537 Jan 29 j 07:56	0°♏	
morning rise	-12537 Feb 12 j 22:29	9°♏28'56	
	-12537 Mar 16 j 23:37	0°♐	
	-12537 May 03 j 18:12	0°♑	
	-12537 Jun 21 j 19:56	0°♒	
asc. node	-12537 Aug 10 j 01:48	28°♒18'15	
	-12537 Aug 13 j 05:26	0°♓	
	-12537 Nov 05 j 05:05	0°♈	
retrograde	-12537 Nov 07 j 23:02	0°♈02'48	
	-12537 Nov 10 j 16:21	30°℞♓	
opposition	-12537 Dec 11 j 05:22	23°♓35'44	5°48'35
greatest brilliancy	-12537 Dec 12 j 16:58	23°♓06'22	-2.3m
min. Earth dist.	-12537 Dec 19 j 02:37	21°♓00'09	0.46342 AU
direct	-12536 Jan 16 j 21:40	15°♓44'43	
	-12536 Mar 07 j 02:10	0°♈	
	-12536 Apr 26 j 07:40	0°♉	
	-12536 Jun 08 j 05:36	0°♊	
desc. node	-12536 Jun 23 j 20:56	11°♊18'06	
	-12536 Jul 19 j 14:33	0°♋	
	-12536 Aug 30 j 05:08	0°♌	
	-12536 Oct 11 j 22:14	0°♍	
	-12536 Nov 25 j 03:06	0°♎	
evening set	-12536 Dec 15 j 21:48	13°♎45'55	
	-12535 Jan 09 j 18:14	0°♏	
conjunction	-12535 Feb 03 j 13:11	16°♏00'42	-1°09'00
minimum elong	-12535 Feb 03 j 14:24	16°♏02'39	1°09'33
max. Earth dist.	-12535 Feb 09 j 13:54	19°♏53'16	2.65667 AU
	-12535 Feb 25 j 08:29	0°♐	
morning rise	-12535 Mar 23 j 10:54	16°♐41'48	
	-12535 Apr 13 j 05:48	0°♑	
	-12535 May 29 j 21:39	0°♒	
asc. node	-12535 Jun 26 j 17:44	18°♒00'40	
	-12535 Jul 15 j 05:31	0°♓	
	-12535 Aug 30 j 17:45	0°♈	
	-12535 Oct 18 j 02:30	0°♉	
	-12535 Dec 16 j 02:50	0°♊	
retrograde	-12534 Jan 20 j 18:07	7°♊16'06	
opposition	-12534 Feb 20 j 16:46	2°♊03'10	5°42'28
greatest brilliancy	-12534 Feb 20 j 21:53	1°♊59'43	-2.8m

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

min. Earth dist.	-12534 Feb 20 j 17:40	2°♊02'33	0.38515 AU
	-12534 Feb 28 j 12:58	30°℞♉	
direct	-12534 Mar 23 j 09:32	26°♉53'31	
	-12534 Apr 14 j 17:27	0°♊	
desc. node	-12534 May 12 j 03:51	10°♊19'42	
	-12534 Jun 17 j 16:49	0°♋	
	-12534 Aug 04 j 18:51	0°♌	
	-12534 Sep 19 j 22:05	0°♍	
	-12534 Nov 05 j 03:07	0°♎	
	-12534 Dec 21 j 21:34	0°♏	
evening set	-12533 Jan 25 j 20:26	22°♏16'32	
	-12533 Feb 06 j 23:16	0°♐	
max. Earth dist.	-12533 Mar 06 j 11:03	17°♐35'33	2.65677 AU
conjunction	-12533 Mar 14 j 23:40	23°♐04'41	-0°35'30
minimum elong	-12533 Mar 15 j 00:58	23°♐06'48	0°36'16
	-12533 Mar 25 j 16:51	0°♑	
morning rise	-12533 May 01 j 02:27	23°♑47'45	
	-12533 May 10 j 11:05	0°♒	
asc. node	-12533 May 14 j 08:49	2°♒36'01	
	-12533 Jun 23 j 21:25	0°♓	
	-12533 Aug 06 j 00:20	0°♈	
	-12533 Sep 17 j 03:54	0°♉	
	-12533 Oct 29 j 00:16	0°♊	
	-12533 Dec 10 j 22:35	0°♋	
	-12532 Jan 28 j 05:33	0°♌	
retrograde	-12532 Mar 27 j 10:43	19°♌06'17	
desc. node	-12532 Mar 29 j 06:44	19°♌04'49	
min. Earth dist.	-12532 Apr 24 j 19:34	13°♌46'50	0.45803 AU
opposition	-12532 May 02 j 16:34	11°♌06'29	-2°13'57
greatest brilliancy	-12532 May 01 j 23:30	11°♌21'03	-2.4m
direct	-12532 Jun 04 j 10:26	4°♌33'44	
	-12532 Aug 19 j 22:42	0°♍	
	-12532 Oct 12 j 03:35	0°♎	
	-12532 Nov 30 j 19:04	0°♏	
	-12531 Jan 18 j 03:41	0°♐	
evening set	-12531 Mar 05 j 10:42	29°♐27'08	
	-12531 Mar 06 j 07:02	0°♑	
asc. node	-12531 Mar 31 j 04:04	16°♑14'36	
max. Earth dist.	-12531 Mar 31 j 12:49	16°♑29'03	2.60465 AU
	-12531 Apr 20 j 19:48	0°♒	
conjunction	-12531 Apr 23 j 09:22	1°♒43'39	0°14'32
minimum elong	-12531 Apr 23 j 08:45	1°♒42'36	0°13'52
behind sun begin	-12531 Apr 22 j 22:23	1°♒25'09	
behind sun end	-12531 Apr 23 j 19:06	2°♒00'03	
	-12531 Jun 03 j 11:31	0°♓	
morning rise	-12531 Jun 11 j 11:49	5°♓39'02	
	-12531 Jul 15 j 07:43	0°♈	
	-12531 Aug 24 j 17:36	0°♉	
	-12531 Oct 03 j 08:16	0°♊	
	-12531 Nov 11 j 23:53	0°♋	
	-12531 Dec 22 j 20:59	0°♌	
	-12530 Feb 05 j 01:11	0°♍	
desc. node	-12530 Feb 14 j 03:21	5°♍41'00	
	-12530 Apr 01 j 00:16	0°♎	
retrograde	-12530 May 12 j 20:52	9°♎56'54	
min. Earth dist.	-12530 Jun 15 j 03:02	2°♎37'41	0.57597 AU
greatest brilliancy	-12530 Jun 20 j 03:20	0°♎40'46	-1.7m
opposition	-12530 Jun 21 j 05:28	0°♎15'19	-5°13'16
	-12530 Jun 21 j 21:16	30°℞♍	
direct	-12530 Jul 27 j 15:47	21°♍57'49	
	-12530 Sep 04 j 22:44	0°♎	
	-12530 Nov 06 j 23:50	0°♏	
	-12530 Dec 28 j 21:10	0°♐	
	-12529 Feb 15 j 07:13	0°♑	
asc. node	-12529 Feb 16 j 04:19	0°♑33'37	
	-12529 Apr 02 j 03:27	0°♒	
evening set	-12529 Apr 17 j 07:11	10°♒17'12	
max. Earth dist.	-12529 May 04 j 04:12	21°♒58'15	2.50596 AU
	-12529 May 15 j 13:48	0°♓	
conjunction	-12529 Jun 08 j 19:33	17°♓26'36	1°02'19
minimum elong	-12529 Jun 08 j 17:30	17°♓22'50	1°02'07
	-12529 Jun 25 j 20:48	0°♈	
morning rise	-12529 Aug 03 j 02:55	28°♈54'38	
	-12529 Aug 04 j 13:01	0°♉	
	-12529 Sep 12 j 07:53	0°♊	
	-12529 Oct 21 j 01:36	0°♋	
	-12529 Nov 29 j 16:26	0°♌	
desc. node	-12528 Jan 01 j 21:56	24°♌08'51	
	-12528 Jan 10 j 05:27	0°♍	
	-12528 Feb 24 j 03:51	0°♎	
	-12528 Apr 16 j 14:43	0°♏	
retrograde	-12528 Jun 18 j 11:50	18°♏45'41	
min. Earth dist.	-12528 Jul 26 j 02:17	9°♏49'51	0.64925 AU
opposition	-12528 Jul 28 j 11:50	8°♏52'00	-4°56'54
greatest brilliancy	-12528 Jul 28 j 02:48	9°♏01'05	-1.4m
	-12528 Aug 28 j 02:23	30°℞♎	
direct	-12528 Sep 05 j 12:23	29°♎32'31	
	-12528 Sep 14 j 04:24	0°♏	
	-12528 Dec 03 j 07:21	0°♐	
asc. node	-12527 Jan 03 j 09:39	17°♐19'56	
	-12527 Jan 24 j 15:05	0°♑	
	-12527 Mar 12 j 16:49	0°♒	
	-12527 Apr 25 j 10:02	0°♓	
	-12527 Jun 05 j 14:07	0°♈	
evening set	-12527 Jun 06 j 22:01	0°♈59'39	
max. Earth dist.	-12527 Jul 11 j 13:29	27°♈21'47	2.39321 AU
	-12527 Jul 14 j 23:22	0°♉	
conjunction	-12527 Aug 05 j 04:11	16°♉29'36	1°05'47
minimum elong	-12527 Aug 05 j 06:42	16°♉34'31	1°06'19
	-12527 Aug 22 j 10:21	0°♊	
	-12527 Sep 29 j 20:30	0°♋	
morning rise	-12527 Oct 07 j 22:57	6°♋15'56	
	-12527 Nov 08 j 03:01	0°♌	
desc. node	-12527 Nov 18 j 13:56	7°♌48'05	
	-12527 Dec 19 j 01:22	0°♍	
	-12526 Jan 31 j 09:12	0°♎	
	-12526 Mar 19 j 01:38	0°♏	
	-12526 May 10 j 23:33	0°♐	
retrograde	-12526 Jul 23 j 20:06	23°♐23'21	
opposition	-12526 Sep 01 j 05:28	13°♐54'56	-3°07'02
greatest brilliancy	-12526 Sep 01 j 09:44	13°♐50'39	-1.4m
min. Earth dist.	-12526 Sep 02 j 15:02	13°♐21'19	0.66171 AU
direct	-12526 Oct 11 j 17:18	4°♐02'49	
asc. node	-12526 Nov 21 j 17:03	12°♐38'48	
	-12526 Dec 29 j 17:17	0°♑	
	-12525 Feb 19 j 02:54	0°♒	
	-12525 Apr 05 j 03:30	0°♓	
	-12525 May 16 j 17:31	0°♈	
	-12525 Jun 25 j 05:17	0°♉	
	-12525 Aug 02 j 16:44	0°♊	
evening set	-12525 Aug 09 j 04:10	5°♊04'19	
	-12525 Sep 10 j 03:27	0°♋	
desc. node	-12525 Oct 06 j 07:51	20°♋05'33	
conjunction	-12525 Oct 10 j 06:33	23°♋05'05	-0°03'01
minimum elong	-12525 Oct 10 j 06:19	23°♋04'37	0°02'17
behind sun begin	-12525 Oct 09 j 04:23	22°♋15'32	
behind sun end	-12525 Oct 11 j 08:15	23°♋53'39	
	-12525 Oct 19 j 10:50	0°♌	
max. Earth dist.	-12525 Nov 23 j 03:00	25°♌31'31	2.45403 AU

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12525 Nov 29 j 08:23	0°♍	
morning rise	-12525 Dec 10 j 04:52	7°♍43'31	
	-12524 Jan 11 j 07:59	0°♎	
	-12524 Feb 25 j 16:48	0°♏	
	-12524 Apr 13 j 20:07	0°♐	
	-12524 Jun 05 j 15:33	0°♑	
retrograde	-12524 Aug 29 j 18:41	28°♑44'33	
opposition	-12524 Oct 06 j 12:54	20°♑06'32	-0°06'15
greatest brilliancy	-12524 Oct 06 j 13:34	20°♑05'54	-1.6m
asc. node	-12524 Oct 08 j 21:17	19°♑11'43	
min. Earth dist.	-12524 Oct 11 j 14:02	18°♑09'01	0.61306 AU
direct	-12524 Nov 16 j 04:10	10°♑13'18	
	-12523 Jan 19 j 19:38	0°♒	
	-12523 Mar 11 j 15:12	0°♓	
	-12523 Apr 24 j 00:14	0°♈	
	-12523 Jun 03 j 07:12	0°♉	
	-12523 Jul 12 j 06:48	0°♊	
	-12523 Aug 20 j 03:46	0°♋	
desc. node	-12523 Aug 23 j 07:37	2°♋25'11	
	-12523 Sep 28 j 20:43	0°♌	
evening set	-12523 Oct 09 j 16:36	8°♌00'05	
	-12523 Nov 09 j 02:26	0°♍	
conjunction	-12523 Dec 04 j 22:08	18°♍07'00	-1°02'54
minimum elong	-12523 Dec 04 j 19:57	18°♍03'15	1°02'43
	-12523 Dec 22 j 06:04	0°♎	
max. Earth dist.	-12522 Jan 03 j 10:09	8°♎13'03	2.56907 AU
morning rise	-12522 Jan 27 j 08:51	24°♎06'56	
	-12522 Feb 05 j 08:42	0°♏	
	-12522 Mar 24 j 04:52	0°♐	
	-12522 May 11 j 16:08	0°♑	
	-12522 Jul 01 j 17:24	0°♒	
asc. node	-12522 Aug 26 j 20:16	28°♒13'44	
	-12522 Aug 31 j 05:11	0°♓	
retrograde	-12522 Oct 15 j 20:00	10°♓21'11	
opposition	-12522 Nov 19 j 16:26	3°♓08'30	4°04'48
greatest brilliancy	-12522 Nov 20 j 17:09	2°♓46'37	-2.1m
min. Earth dist.	-12522 Nov 27 j 12:29	0°♓22'23	0.51104 AU
	-12522 Nov 28 j 14:34	30°♑♒	
direct	-12522 Dec 28 j 05:50	24°♒19'41	
	-12521 Jan 27 j 16:44	0°♓	
	-12521 Mar 26 j 17:08	0°♈	
	-12521 May 09 j 15:51	0°♉	
	-12521 Jun 19 j 12:18	0°♊	
desc. node	-12521 Jul 11 j 12:25	16°♊25'56	
	-12521 Jul 29 j 17:05	0°♋	
	-12521 Sep 08 j 11:41	0°♌	
	-12521 Oct 20 j 14:01	0°♍	
evening set	-12521 Nov 29 j 15:34	27°♍30'32	
	-12521 Dec 03 j 08:21	0°♎	
	-12520 Jan 17 j 17:23	0°♏	
conjunction	-12520 Jan 19 j 13:14	1°♏11'24	-1°14'46
minimum elong	-12520 Jan 19 j 13:45	1°♏12'13	1°15'10
max. Earth dist.	-12520 Jan 31 j 18:44	9°♏07'22	2.64209 AU
	-12520 Mar 04 j 06:28	0°♐	
morning rise	-12520 Mar 08 j 10:18	2°♐39'25	
	-12520 Apr 20 j 09:30	0°♑	
	-12520 Jun 06 j 17:28	0°♒	
asc. node	-12520 Jul 13 j 14:12	23°♒12'08	
	-12520 Jul 24 j 12:08	0°♓	
	-12520 Sep 12 j 06:45	0°♈	
	-12520 Nov 11 j 05:55	0°♉	
retrograde	-12520 Dec 20 j 16:24	8°♉21'04	
opposition	-12519 Jan 20 j 17:56	3°♉02'25	7°09'58
greatest brilliancy	-12519 Jan 21 j 22:56	2°♉42'02	-2.7m
min. Earth dist.	-12519 Jan 25 j 11:21	1°♉43'01	0.40098 AU
	-12519 Jan 31 j 23:48	30°♑♈	
direct	-12519 Feb 22 j 05:40	27°♈08'58	
	-12519 Mar 15 j 08:51	0°♉	
	-12519 May 17 j 01:19	0°♊	
desc. node	-12519 May 28 j 18:22	7°♊18'49	
	-12519 Jul 02 j 06:25	0°♋	
	-12519 Aug 15 j 09:33	0°♌	
	-12519 Sep 28 j 16:09	0°♍	
	-12519 Nov 12 j 20:34	0°♎	
	-12519 Dec 29 j 01:27	0°♏	
evening set	-12518 Jan 10 j 08:42	7°♏54'24	
	-12518 Feb 13 j 20:54	0°♐	
max. Earth dist.	-12518 Feb 24 j 21:32	7°♐03'22	2.66322 AU
conjunction	-12518 Feb 27 j 18:57	8°♐54'31	-0°51'10
minimum elong	-12518 Feb 27 j 20:31	8°♐57'01	0°51'53
	-12518 Apr 01 j 14:33	0°♑	
morning rise	-12518 Apr 15 j 21:38	9°♑15'08	
	-12518 May 17 j 15:14	0°♒	
asc. node	-12518 May 31 j 04:57	8°♒58'30	
	-12518 Jul 01 j 15:07	0°♓	
	-12518 Aug 14 j 16:14	0°♈	
	-12518 Sep 27 j 05:01	0°♉	
	-12518 Nov 10 j 06:09	0°♊	
	-12518 Dec 27 j 23:47	0°♋	
retrograde	-12517 Mar 05 j 14:59	23°♋35'49	
min. Earth dist.	-12517 Apr 02 j 01:08	18°♋50'58	0.41455 AU
opposition	-12517 Apr 08 j 13:30	16°♋52'03	0°32'44
greatest brilliancy	-12517 Apr 08 j 10:49	16°♋54'06	-2.7m
desc. node	-12517 Apr 16 j 00:02	14°♋41'04	
direct	-12517 May 09 j 19:49	11°♋09'21	
	-12517 Jul 11 j 09:28	0°♌	
	-12517 Sep 03 j 06:57	0°♍	
	-12517 Oct 22 j 10:08	0°♎	
	-12517 Dec 09 j 14:01	0°♏	
	-12516 Jan 26 j 07:17	0°♐	
evening set	-12516 Feb 18 j 23:07	15°♐02'30	
	-12516 Mar 13 j 05:19	0°♑	
max. Earth dist.	-12516 Mar 21 j 01:13	5°♑04'56	2.63115 AU
conjunction	-12516 Apr 07 j 07:16	16°♑22'52	-0°05'59
minimum elong	-12516 Apr 07 j 07:33	16°♑23'18	0°06'44
behind sun begin	-12516 Apr 06 j 13:08	15°♑53'00	
behind sun end	-12516 Apr 08 j 01:57	16°♑53'38	
asc. node	-12516 Apr 16 j 21:20	22°♑43'22	
	-12516 Apr 27 j 19:10	0°♒	
morning rise	-12516 May 25 j 05:20	18°♒36'08	
	-12516 Jun 10 j 16:40	0°♓	
	-12516 Jul 22 j 22:36	0°♈	
	-12516 Sep 01 j 20:56	0°♉	
	-12516 Oct 12 j 02:12	0°♊	
	-12516 Nov 21 j 11:51	0°♋	
	-12515 Jan 02 j 14:30	0°♌	
	-12515 Feb 19 j 05:30	0°♍	
desc. node	-12515 Mar 03 j 00:21	6°♍15'52	
retrograde	-12515 Apr 26 j 07:51	22°♍19'46	
min. Earth dist.	-12515 May 27 j 14:04	15°♍47'24	0.53247 AU
opposition	-12515 Jun 03 j 21:06	13°♍03'04	-4°37'10
greatest brilliancy	-12515 Jun 02 j 16:13	13°♍30'14	-2.0m
direct	-12515 Jul 08 j 22:56	5°♍21'04	
	-12515 Sep 23 j 06:56	0°♎	
	-12515 Nov 16 j 17:40	0°♏	
	-12514 Jan 05 j 18:33	0°♐	
	-12514 Feb 22 j 13:19	0°♑	
asc. node	-12514 Mar 04 j 19:16	6°♑36'32	
evening set	-12514 Mar 30 j 23:09	23°♑48'01	
	-12514 Apr 09 j 05:22	0°♒	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

max. Earth dist.	-12514 Apr 19 j 13:52	7°♒00'40	2.54918 AU
conjunction	-12514 May 20 j 16:23	28°♒34'25	0°45'59
minimum elong	-12514 May 20 j 14:28	28°♒31'03	0°45'33
	-12514 May 22 j 16:51	0°♓	
	-12514 Jul 03 j 03:59	0°♈	
morning rise	-12514 Jul 11 j 22:18	6°♈30'17	
	-12514 Aug 12 j 01:44	0°♉	
	-12514 Sep 20 j 02:35	0°♊	
	-12514 Oct 29 j 02:31	0°♋	
	-12514 Dec 08 j 00:51	0°♌	
desc. node	-12513 Jan 18 j 18:21	29°♌43'57	
	-12513 Jan 19 j 03:43	0°♍	
	-12513 Mar 06 j 17:00	0°♎	
	-12513 May 08 j 10:08	0°♏	
retrograde	-12513 Jun 05 j 10:24	4°♏37'57	
	-12513 Jul 01 j 12:24	30°℞♎	
min. Earth dist.	-12513 Jul 11 j 11:18	26°♎16'12	0.62735 AU
opposition	-12513 Jul 15 j 08:35	24°♎43'05	-5°17'24
greatest brilliancy	-12513 Jul 14 j 16:27	24°♎59'12	-1.5m
direct	-12513 Aug 22 j 11:53	15°♎43'58	
	-12513 Oct 16 j 19:24	0°♏	
	-12513 Dec 14 j 11:47	0°♐	
asc. node	-12512 Jan 20 j 23:13	22°♐07'14	
	-12512 Feb 02 j 17:29	0°♑	
	-12512 Mar 20 j 04:24	0°♒	
	-12512 May 02 j 17:42	0°♓	
evening set	-12512 May 16 j 09:47	9°♓47'12	
max. Earth dist.	-12512 Jun 04 j 08:30	23°♓38'05	2.43286 AU
	-12512 Jun 12 j 22:13	0°♈	
conjunction	-12512 Jul 11 j 19:25	21°♈51'34	1°13'31
minimum elong	-12512 Jul 11 j 19:32	21°♈51'48	1°13'48
	-12512 Jul 22 j 09:20	0°♉	
	-12512 Aug 29 j 22:19	0°♊	
morning rise	-12512 Sep 10 j 20:18	9°♊18'54	
	-12512 Oct 07 j 10:11	0°♋	
	-12512 Nov 15 j 18:13	0°♌	
desc. node	-12512 Dec 05 j 10:17	14°♌34'04	
	-12512 Dec 26 j 19:31	0°♍	
	-12511 Feb 08 j 12:04	0°♎	
	-12511 Mar 28 j 09:03	0°♏	
	-12511 May 26 j 06:41	0°♐	
retrograde	-12511 Jul 10 j 01:55	10°♐15'36	
opposition	-12511 Aug 18 j 19:58	0°♐34'17	-3°58'20
greatest brilliancy	-12511 Aug 18 j 20:21	0°♐33'54	-1.4m
min. Earth dist.	-12511 Aug 18 j 18:14	0°♐36'01	0.66421 AU
	-12511 Aug 20 j 06:05	30°℞♏	
direct	-12511 Sep 27 j 21:14	20°♏51'48	
	-12511 Nov 09 j 12:14	0°♐	
asc. node	-12511 Dec 08 j 06:15	12°♐38'41	
	-12510 Jan 09 j 16:14	0°♑	
	-12510 Feb 27 j 16:25	0°♒	
	-12510 Apr 13 j 00:41	0°♓	
	-12510 May 24 j 09:23	0°♈	
	-12510 Jul 02 j 19:17	0°♉	
evening set	-12510 Jul 14 j 12:21	9°♉05'39	
	-12510 Aug 10 j 05:40	0°♊	
conjunction	-12510 Sep 14 j 20:02	27°♊49'41	0°28'33
minimum elong	-12510 Sep 14 j 22:32	27°♊54'33	0°29'17
	-12510 Sep 17 j 15:11	0°♋	
desc. node	-12510 Oct 23 j 03:33	27°♋11'46	
max. Earth dist.	-12510 Oct 23 j 14:42	27°♋32'47	2.40767 AU
	-12510 Oct 26 j 20:56	0°♌	
morning rise	-12510 Nov 17 j 08:47	15°♌57'50	
	-12510 Dec 06 j 17:08	0°♍	
	-12509 Jan 18 j 17:29	0°♎	
	-12509 Mar 05 j 09:25	0°♏	
	-12509 Apr 23 j 14:43	0°♐	
	-12509 Jun 20 j 02:29	0°♑	
retrograde	-12509 Aug 15 j 09:21	14°♑46'46	
opposition	-12509 Sep 22 j 22:07	5°♑45'47	-1°24'50
greatest brilliancy	-12509 Sep 23 j 03:07	5°♑40'51	-1.5m
min. Earth dist.	-12509 Sep 26 j 13:54	4°♑19'12	0.63917 AU
	-12509 Oct 08 j 10:05	30°℞♐	
asc. node	-12509 Oct 26 j 12:36	26°♐08'08	
direct	-12509 Nov 02 j 16:51	25°♐47'59	
	-12509 Nov 29 j 22:15	0°♑	
	-12508 Feb 02 j 20:44	0°♒	
	-12508 Mar 21 j 05:19	0°♓	
	-12508 May 02 j 14:53	0°♈	
	-12508 Jun 11 j 11:32	0°♉	
	-12508 Jul 20 j 04:34	0°♊	
	-12508 Aug 27 j 20:03	0°♋	
desc. node	-12508 Sep 09 j 00:09	9°♋20'42	
evening set	-12508 Sep 16 j 13:50	15°♋06'56	
	-12508 Oct 06 j 07:47	0°♌	
conjunction	-12508 Nov 14 j 11:00	28°♌38'04	-0°45'20
minimum elong	-12508 Nov 14 j 08:26	28°♌33'28	0°44'53
	-12508 Nov 16 j 08:49	0°♍	
max. Earth dist.	-12508 Dec 20 j 20:07	24°♍09'11	2.52774 AU
	-12508 Dec 29 j 09:15	0°♎	
morning rise	-12507 Jan 09 j 14:02	7°♎34'40	
	-12507 Feb 12 j 11:58	0°♏	
	-12507 Mar 31 j 15:39	0°♐	
	-12507 May 20 j 04:24	0°♑	
	-12507 Jul 13 j 19:44	0°♒	
asc. node	-12507 Sep 12 j 13:46	22°♒01'14	
retrograde	-12507 Sep 25 j 18:47	23°♒03'36	
opposition	-12507 Oct 31 j 23:33	15°♒12'04	2°19'48
greatest brilliancy	-12507 Nov 01 j 12:11	15°♒00'20	-1.9m
min. Earth dist.	-12507 Nov 07 j 23:39	12°♒36'09	0.55618 AU
direct	-12507 Dec 10 j 18:00	5°♒45'47	
	-12506 Feb 19 j 17:15	0°♓	
	-12506 Apr 08 j 02:45	0°♈	
	-12506 May 19 j 20:46	0°♉	
	-12506 Jun 28 j 16:00	0°♊	
desc. node	-12506 Jul 28 j 03:18	22°♊24'59	
	-12506 Aug 07 j 03:44	0°♋	
	-12506 Sep 16 j 08:56	0°♌	
	-12506 Oct 28 j 00:40	0°♍	
evening set	-12506 Nov 11 j 03:39	9°♍53'41	
	-12506 Dec 10 j 11:21	0°♎	
conjunction	-12505 Jan 02 j 19:01	15°♎36'35	-1°15'15
minimum elong	-12505 Jan 02 j 18:31	15°♎35'47	1°15'27
max. Earth dist.	-12505 Jan 21 j 13:36	27°♎58'11	2.61951 AU
	-12505 Jan 24 j 16:11	0°♏	
morning rise	-12505 Feb 22 j 01:48	18°♏22'41	
	-12505 Mar 12 j 05:56	0°♐	
	-12505 Apr 28 j 17:33	0°♑	
	-12505 Jun 16 j 00:41	0°♒	
asc. node	-12505 Jul 31 j 08:54	27°♒12'49	
	-12505 Aug 05 j 04:27	0°♓	
	-12505 Oct 01 j 23:49	0°♈	
retrograde	-12505 Nov 22 j 14:11	13°♈01'57	
opposition	-12505 Dec 25 j 00:27	7°♈01'07	6°36'44
greatest brilliancy	-12505 Dec 26 j 14:19	6°♈31'21	-2.5m
min. Earth dist.	-12504 Jan 01 j 07:39	4°♈44'20	0.43849 AU
	-12504 Jan 24 j 12:24	30°℞♓	
direct	-12504 Jan 29 j 07:01	29°♓50'23	
	-12504 Feb 03 j 02:22	0°♈	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12504 Apr 16 j 18:16	0°♉	
	-12504 Jun 01 j 01:20	0°♊	
desc. node	-12504 Jun 14 j 10:39	9°♊22'25	
	-12504 Jul 13 j 11:50	0°♋	
	-12504 Aug 24 j 17:33	0°♌	
	-12504 Oct 06 j 20:27	0°♍	
	-12504 Nov 20 j 07:31	0°♎	
evening set	-12504 Dec 25 j 09:51	23°♎03'54	
	-12503 Jan 05 j 02:16	0°♏	
conjunction	-12503 Feb 12 j 12:23	24°♏44'07	-1°03'33
minimum elong	-12503 Feb 12 j 13:50	24°♏46'26	1°04'10
max. Earth dist.	-12503 Feb 15 j 06:35	26°♏30'12	2.66131 AU
	-12503 Feb 20 j 17:36	0°♐	
morning rise	-12503 Apr 01 j 00:45	25°♐10'16	
	-12503 Apr 08 j 13:12	0°♑	
	-12503 May 24 j 22:50	0°♒	
asc. node	-12503 Jun 17 j 00:08	15°♒03'50	
	-12503 Jul 09 j 17:13	0°♓	
	-12503 Aug 24 j 03:01	0°♈	
	-12503 Oct 09 j 01:35	0°♉	
	-12503 Nov 27 j 10:05	0°♊	
retrograde	-12502 Feb 06 j 13:50	24°♊39'10	
min. Earth dist.	-12502 Mar 07 j 12:20	19°♊51'58	0.38847 AU
opposition	-12502 Mar 10 j 08:14	19°♊05'11	4°00'04
greatest brilliancy	-12502 Mar 10 j 02:59	19°♊08'47	-2.8m
direct	-12502 Apr 09 j 16:45	13°♊55'50	
desc. node	-12502 May 02 j 16:28	17°♊07'53	
	-12502 Jun 04 j 17:12	0°♋	
	-12502 Jul 28 j 02:10	0°♌	
	-12502 Sep 13 j 21:43	0°♍	
	-12502 Oct 30 j 21:26	0°♎	
	-12502 Dec 17 j 01:24	0°♏	
	-12501 Feb 02 j 07:34	0°♐	
evening set	-12501 Feb 03 j 16:16	0°♐52'01	
max. Earth dist.	-12501 Mar 12 j 04:48	24°♐14'48	2.64988 AU
	-12501 Mar 21 j 02:31	0°♑	
conjunction	-12501 Mar 23 j 18:49	1°♑44'11	-0°25'13
minimum elong	-12501 Mar 23 j 19:49	1°♑45'50	0°26'00
asc. node	-12501 May 04 j 15:13	29°♑13'25	
	-12501 May 05 j 19:12	0°♒	
morning rise	-12501 May 10 j 01:19	2°♒50'27	
	-12501 Jun 19 j 00:50	0°♓	
	-12501 Jul 31 j 19:35	0°♈	
	-12501 Sep 11 j 10:59	0°♉	
	-12501 Oct 22 j 13:44	0°♊	
	-12501 Dec 03 j 06:04	0°♋	
	-12500 Jan 17 j 00:10	0°♌	
desc. node	-12500 Mar 19 j 17:46	29°♌48'56	
	-12500 Mar 20 j 12:06	0°♍	
retrograde	-12500 Apr 07 j 23:21	2°♍17'56	
	-12500 Apr 25 j 23:09	30°℞♌	
min. Earth dist.	-12500 May 07 j 06:51	26°♌33'46	0.48465 AU
greatest brilliancy	-12500 May 14 j 05:10	24°♌06'15	-2.2m
opposition	-12500 May 15 j 05:46	23°♌44'23	-3°21'16
direct	-12500 Jun 17 j 19:25	16°♌45'10	
	-12500 Aug 08 j 11:02	0°♍	
	-12500 Oct 05 j 12:33	0°♎	
	-12500 Nov 25 j 10:13	0°♏	
	-12499 Jan 13 j 06:47	0°♐	
	-12499 Mar 01 j 15:08	0°♑	
evening set	-12499 Mar 14 j 13:57	8°♑23'49	
asc. node	-12499 Mar 21 j 11:15	12°♑54'03	
max. Earth dist.	-12499 Apr 07 j 04:43	23°♑57'47	2.58673 AU
	-12499 Apr 16 j 05:10	0°♒	

conjunction	-12499 May 03 j 00:42	11°♒24'26	0°26'24
minimum elong	-12499 May 02 j 23:33	11°♒22'27	0°25'49
	-12499 May 29 j 19:38	0°♓	
morning rise	-12499 Jun 22 j 00:56	16°♓32'40	
	-12499 Jul 10 j 12:51	0°♈	
	-12499 Aug 19 j 18:23	0°♉	
	-12499 Sep 28 j 03:33	0°♊	
	-12499 Nov 06 j 12:24	0°♋	
	-12499 Dec 16 j 22:35	0°♌	
	-12498 Jan 29 j 01:37	0°♍	
desc. node	-12498 Feb 04 j 14:41	4°♍17'01	
	-12498 Mar 20 j 02:33	0°♎	
retrograde	-12498 May 21 j 17:46	19°♎34'15	
min. Earth dist.	-12498 Jun 25 j 00:50	11°♎51'25	0.59655 AU
greatest brilliancy	-12498 Jun 29 j 10:04	10°♎07'55	-1.6m
opposition	-12498 Jun 30 j 09:02	9°♎45'17	-5°21'06
direct	-12498 Aug 06 j 11:21	1°♎11'17	
	-12498 Oct 30 j 19:45	0°♏	
	-12498 Dec 23 j 10:05	0°♐	
asc. node	-12497 Feb 06 j 13:16	27°♐34'19	
	-12497 Feb 10 j 09:36	0°♑	
	-12497 Mar 28 j 10:50	0°♒	
evening set	-12497 Apr 27 j 19:26	20°♒46'05	
	-12497 May 10 j 22:23	0°♓	
max. Earth dist.	-12497 May 14 j 00:31	2°♓11'43	2.47990 AU
conjunction	-12497 Jun 20 j 14:07	29°♓32'56	1°09'01
minimum elong	-12497 Jun 20 j 12:28	29°♓29'52	1°08'59
	-12497 Jun 21 j 04:41	0°♈	
	-12497 Jul 30 j 19:08	0°♉	
morning rise	-12497 Aug 16 j 21:51	13°♉13'12	
	-12497 Sep 07 j 11:41	0°♊	
	-12497 Oct 16 j 02:54	0°♋	
	-12497 Nov 24 j 14:25	0°♌	
desc. node	-12497 Dec 23 j 06:57	21°♌01'38	
	-12496 Jan 04 j 21:22	0°♍	
	-12496 Feb 18 j 04:50	0°♎	
	-12496 Apr 08 j 05:56	0°♏	
retrograde	-12496 Jun 26 j 10:02	26°♏58'27	
min. Earth dist.	-12496 Aug 03 j 19:40	17°♏45'41	0.65727 AU
opposition	-12496 Aug 05 j 09:04	17°♏08'03	-4°38'48
greatest brilliancy	-12496 Aug 05 j 03:47	17°♏13'22	-1.4m
direct	-12496 Sep 13 j 19:36	7°♏39'12	
	-12496 Nov 25 j 15:28	0°♐	
asc. node	-12496 Dec 24 j 20:12	15°♐24'05	
	-12495 Jan 19 j 01:09	0°♑	
	-12495 Mar 07 j 17:12	0°♒	
	-12495 Apr 20 j 15:38	0°♓	
	-12495 May 31 j 21:29	0°♈	
evening set	-12495 Jun 19 j 23:27	14°♈23'56	
	-12495 Jul 10 j 06:52	0°♉	
	-12495 Aug 17 j 17:08	0°♊	
conjunction	-12495 Aug 19 j 17:03	1°♊33'55	0°55'22
minimum elong	-12495 Aug 19 j 20:23	1°♊40'27	0°56'00
max. Earth dist.	-12495 Aug 19 j 02:38	1°♊05'40	2.38328 AU
	-12495 Sep 25 j 02:24	0°♋	
morning rise	-12495 Oct 23 j 03:27	21°♋33'05	
	-12495 Nov 03 j 07:44	0°♌	
desc. node	-12495 Nov 08 j 22:32	4°♌12'37	
	-12495 Dec 14 j 04:03	0°♍	
	-12494 Jan 26 j 07:34	0°♎	
	-12494 Mar 13 j 11:43	0°♏	
	-12494 May 03 j 13:04	0°♐	
	-12494 Jul 16 j 16:04	0°♑	
retrograde	-12494 Jul 31 j 22:00	1°♑23'11	
	-12494 Aug 15 j 10:18	30°℞♐	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

opposition	-12494 Sep 09 j 01:15	22°♐03'35	-2°32'27
greatest brilliancy	-12494 Sep 09 j 06:37	21°♐58'14	-1.4m
min. Earth dist.	-12494 Sep 11 j 06:30	21°♐10'31	0.65638 AU
direct	-12494 Oct 19 j 17:09	12°♐08'01	
asc. node	-12494 Nov 12 j 02:42	15°♐15'20	
	-12494 Dec 21 j 04:41	0°♑	
	-12493 Feb 13 j 05:09	0°♒	
	-12493 Mar 30 j 22:11	0°♓	
	-12493 May 11 j 18:41	0°♈	
	-12493 Jun 20 j 09:29	0°♉	
	-12493 Jul 28 j 22:28	0°♊	
evening set	-12493 Aug 23 j 15:04	20°♊04'01	
	-12493 Sep 05 j 10:10	0°♋	
desc. node	-12493 Sep 26 j 19:15	16°♋25'39	
	-12493 Oct 14 j 18:02	0°♌	
conjunction	-12493 Oct 23 j 22:13	6°♌50'54	-0°20'01
minimum elong	-12493 Oct 23 j 20:42	6°♌48'05	0°19'22
	-12493 Nov 24 j 15:27	0°♍	
max. Earth dist.	-12493 Dec 05 j 06:19	7°♍33'44	2.48076 AU
morning rise	-12493 Dec 22 j 04:17	19°♍24'54	
	-12492 Jan 06 j 13:57	0°♎	
	-12492 Feb 20 j 18:47	0°♏	
	-12492 Apr 08 j 10:41	0°♐	
	-12492 May 29 j 16:05	0°♑	
	-12492 Jul 31 j 22:48	0°♒	
retrograde	-12492 Sep 08 j 03:18	7°♒31'58	
asc. node	-12492 Sep 29 j 05:51	4°♒39'03	
	-12492 Oct 13 j 04:06	30°℞♑	
opposition	-12492 Oct 15 j 09:45	29°♑08'54	0°44'02
greatest brilliancy	-12492 Oct 15 j 13:04	29°♑05'44	-1.7m
min. Earth dist.	-12492 Oct 21 j 05:05	26°♑55'30	0.59498 AU
direct	-12492 Nov 24 j 20:32	19°♑21'56	
	-12491 Jan 08 j 10:45	0°♒	
	-12491 Mar 04 j 21:13	0°♓	
	-12491 Apr 18 j 06:08	0°♈	
	-12491 May 28 j 23:07	0°♉	
	-12491 Jul 07 j 04:22	0°♊	
desc. node	-12491 Aug 13 j 20:11	28°♊56'24	
	-12491 Aug 15 j 05:31	0°♋	
	-12491 Sep 24 j 01:39	0°♌	
evening set	-12491 Oct 21 j 22:28	20°♌22'02	
	-12491 Nov 04 j 09:35	0°♍	
conjunction	-12491 Dec 15 j 19:28	28°♍46'55	-1°09'25
minimum elong	-12491 Dec 15 j 17:51	28°♍44'10	1°09'23
	-12491 Dec 17 j 14:28	0°♎	
max. Earth dist.	-12490 Jan 10 j 11:47	16°♎02'30	2.58889 AU
	-12490 Jan 31 j 16:31	0°♏	
morning rise	-12490 Feb 06 j 00:23	3°♏28'15	
	-12490 Mar 19 j 08:59	0°♐	
	-12490 May 06 j 09:31	0°♑	
	-12490 Jun 25 j 04:06	0°♒	
asc. node	-12490 Aug 17 j 03:16	29°♒06'42	
	-12490 Aug 18 j 22:20	0°♓	
retrograde	-12490 Oct 28 j 11:59	21°♓34'44	
opposition	-12490 Dec 01 j 11:33	14°♓46'28	5°04'44
greatest brilliancy	-12490 Dec 02 j 19:04	14°♓19'31	-2.2m
min. Earth dist.	-12490 Dec 09 j 11:07	12°♓03'04	0.48483 AU
direct	-12489 Jan 08 j 02:08	6°♓26'34	
	-12489 Mar 16 j 22:20	0°♈	
	-12489 May 02 j 12:48	0°♉	
	-12489 Jun 13 j 08:46	0°♊	
desc. node	-12489 Jul 02 j 01:10	13°♊43'56	
	-12489 Jul 24 j 03:07	0°♋	
	-12489 Sep 03 j 07:07	0°♌	
	-12489 Oct 15 j 16:00	0°♍	
	-12489 Nov 28 j 14:50	0°♎	
evening set	-12489 Dec 09 j 16:01	7°♎22'34	
	-12488 Jan 13 j 02:08	0°♏	
conjunction	-12488 Jan 28 j 19:42	10°♏11'53	-1°12'00
minimum elong	-12488 Jan 28 j 20:40	10°♏13'27	1°12'28
max. Earth dist.	-12488 Feb 06 j 13:59	15°♏50'57	2.65110 AU
	-12488 Feb 28 j 15:08	0°♐	
morning rise	-12488 Mar 17 j 02:48	11°♐10'38	
	-12488 Apr 15 j 14:38	0°♑	
	-12488 Jun 01 j 13:01	0°♒	
asc. node	-12488 Jul 03 j 19:59	20°♒40'15	
	-12488 Jul 18 j 10:35	0°♓	
	-12488 Sep 04 j 02:49	0°♈	
	-12488 Oct 25 j 11:42	0°♉	
retrograde	-12487 Jan 07 j 04:52	24°♉40'29	
opposition	-12487 Feb 06 j 21:48	19°♉31'36	6°37'20
greatest brilliancy	-12487 Feb 07 j 14:28	19°♉20'18	-2.8m
min. Earth dist.	-12487 Feb 09 j 06:01	18°♉53'31	0.38895 AU
direct	-12487 Mar 10 j 06:09	14°♉08'40	
	-12487 May 03 j 12:15	0°♊	
desc. node	-12487 May 19 j 07:51	8°♊24'39	
	-12487 Jun 24 j 01:43	0°♋	
	-12487 Aug 08 j 23:54	0°♌	
	-12487 Sep 23 j 03:42	0°♍	
	-12487 Nov 07 j 20:04	0°♎	
	-12487 Dec 24 j 07:28	0°♏	
evening set	-12486 Jan 19 j 07:23	16°♏37'38	
	-12486 Feb 09 j 05:58	0°♐	
max. Earth dist.	-12486 Mar 02 j 11:39	13°♐35'10	2.66068 AU
conjunction	-12486 Mar 08 j 12:39	17°♐27'49	-0°42'27
minimum elong	-12486 Mar 08 j 14:06	17°♐30'09	0°43'12
	-12486 Mar 27 j 23:46	0°♑	
morning rise	-12486 Apr 24 j 14:15	17°♑57'27	
	-12486 May 12 j 21:08	0°♒	
asc. node	-12486 May 21 j 10:48	5°♒41'12	
	-12486 Jun 26 j 13:44	0°♓	
	-12486 Aug 09 j 02:08	0°♈	
	-12486 Sep 20 j 19:00	0°♉	
	-12486 Nov 02 j 10:16	0°♊	
	-12486 Dec 16 j 19:09	0°♋	
	-12485 Feb 08 j 20:03	0°♌	
retrograde	-12485 Mar 18 j 23:37	8°♌53'14	
desc. node	-12485 Apr 06 j 11:56	6°♌30'15	
min. Earth dist.	-12485 Apr 15 j 18:58	3°♌51'33	0.43731 AU
opposition	-12485 Apr 23 j 06:39	1°♌25'39	-1°09'28
greatest brilliancy	-12485 Apr 22 j 21:49	1°♌32'51	-2.6m
	-12485 Apr 27 j 18:03	30°℞♋	
direct	-12485 May 25 j 07:50	25°♋15'32	
	-12485 Jun 22 j 22:38	0°♌	
	-12485 Aug 26 j 11:15	0°♍	
	-12485 Oct 16 j 13:33	0°♎	
	-12485 Dec 04 j 11:41	0°♏	
	-12484 Jan 21 j 13:13	0°♐	
evening set	-12484 Feb 27 j 19:21	23°♐40'47	
	-12484 Mar 08 j 14:46	0°♑	
max. Earth dist.	-12484 Mar 27 j 02:57	12°♑02'53	2.61749 AU
asc. node	-12484 Apr 07 j 04:51	19°♑20'35	
conjunction	-12484 Apr 16 j 10:13	25°♑28'13	0°05'48
minimum elong	-12484 Apr 16 j 09:59	25°♑27'49	0°05'05
behind sun begin	-12484 Apr 15 j 14:35	24°♑55'30	
behind sun end	-12484 Apr 17 j 05:23	26°♑00'10	
	-12484 Apr 23 j 04:46	0°♒	
morning rise	-12484 Jun 03 j 22:11	28°♒33'04	
	-12484 Jun 05 j 23:56	0°♓	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12484 Jul 18 j 01:00	0°♈	
	-12484 Aug 27 j 16:38	0°♉	
	-12484 Oct 06 j 13:11	0°♊	
	-12484 Nov 15 j 11:25	0°♋	
	-12484 Dec 26 j 18:00	0°♌	
	-12483 Feb 09 j 22:00	0°♍	
desc. node	-12483 Feb 21 j 09:17	6°♍49'55	
	-12483 Apr 14 j 03:47	0°♎	
retrograde	-12483 May 06 j 00:04	3°♎03'37	
	-12483 May 26 j 20:19	30°℞♍	
min. Earth dist.	-12483 Jun 07 j 08:59	26°♍04'57	0.55744 AU
greatest brilliancy	-12483 Jun 12 j 21:20	23°♍58'09	-1.8m
opposition	-12483 Jun 14 j 01:17	23°♍31'18	-5°02'08
direct	-12483 Jul 19 j 22:14	15°♍28'35	
	-12483 Sep 13 j 04:50	0°♎	
	-12483 Nov 10 j 13:41	0°♏	
	-12483 Dec 31 j 14:38	0°♐	
	-12482 Feb 17 j 18:42	0°♑	
asc. node	-12482 Feb 23 j 04:29	3°♑27'51	
	-12482 Apr 04 j 14:07	0°♒	
evening set	-12482 Apr 09 j 17:25	3°♒27'42	
max. Earth dist.	-12482 Apr 27 j 14:11	15°♒40'11	2.52604 AU
	-12482 May 18 j 02:11	0°♓	
conjunction	-12482 May 31 j 08:19	9°♓27'12	0°55'52
minimum elong	-12482 May 31 j 06:14	9°♓23'27	0°55'34
	-12482 Jun 28 j 11:58	0°♈	
morning rise	-12482 Jul 24 j 03:58	19°♈14'14	
	-12482 Aug 07 j 07:17	0°♉	
	-12482 Sep 15 j 04:46	0°♊	
	-12482 Oct 24 j 00:39	0°♋	
	-12482 Dec 02 j 17:32	0°♌	
desc. node	-12481 Jan 09 j 04:17	27°♌02'30	
	-12481 Jan 13 j 09:59	0°♍	
	-12481 Feb 27 j 19:36	0°♎	
	-12481 Apr 23 j 16:32	0°♏	
retrograde	-12481 Jun 13 j 14:50	13°♏16'35	
min. Earth dist.	-12481 Jul 20 j 13:24	4°♏35'04	0.64066 AU
opposition	-12481 Jul 23 j 14:35	3°♏21'40	-5°07'21
greatest brilliancy	-12481 Jul 23 j 02:30	3°♏33'48	-1.4m
	-12481 Aug 01 j 06:33	30°℞♎	
direct	-12481 Aug 31 j 06:17	24°♎10'34	
	-12481 Oct 03 j 08:31	0°♏	
	-12481 Dec 08 j 02:00	0°♐	
asc. node	-12480 Jan 11 j 09:03	19°♐38'08	
	-12480 Jan 28 j 11:40	0°♑	
	-12480 Mar 15 j 08:00	0°♒	
	-12480 Apr 28 j 00:48	0°♓	
evening set	-12480 May 28 j 08:23	21°♓54'46	
	-12480 Jun 08 j 06:08	0°♈	
max. Earth dist.	-12480 Jun 22 j 09:51	10°♈38'24	2.40911 AU
	-12480 Jul 17 j 16:59	0°♉	
conjunction	-12480 Jul 25 j 07:40	5°♉53'42	1°10'47
minimum elong	-12480 Jul 25 j 09:11	5°♉56'38	1°11'14
	-12480 Aug 25 j 04:59	0°♊	
morning rise	-12480 Sep 26 j 02:14	24°♊54'42	
	-12480 Oct 02 j 15:33	0°♋	
	-12480 Nov 10 j 21:53	0°♌	
desc. node	-12480 Nov 25 j 20:41	11°♌08'05	
	-12480 Dec 21 j 19:55	0°♍	
	-12479 Feb 03 j 05:20	0°♎	
	-12479 Mar 22 j 05:39	0°♏	
	-12479 May 15 j 19:14	0°♐	
retrograde	-12479 Jul 17 j 23:36	18°♐14'43	
opposition	-12479 Aug 26 j 13:34	8°♐40'08	-3°29'42
greatest brilliancy	-12479 Aug 26 j 16:22	8°♐37'19	-1.4m
min. Earth dist.	-12479 Aug 27 j 07:47	8°♐21'52	0.66406 AU
	-12479 Sep 22 j 16:22	30°℞♏	
direct	-12479 Oct 05 j 21:28	28°♏51'38	
	-12479 Oct 19 j 17:13	0°♐	
asc. node	-12479 Nov 28 j 16:06	12°♐33'43	
	-12478 Jan 02 j 22:18	0°♑	
	-12478 Feb 22 j 06:11	0°♒	
	-12478 Apr 08 j 00:50	0°♓	
	-12478 May 19 j 13:29	0°♈	
	-12478 Jun 28 j 01:04	0°♉	
evening set	-12478 Jul 28 j 22:21	24°♉04'00	
	-12478 Aug 05 j 12:03	0°♊	
	-12478 Sep 12 j 21:49	0°♋	
conjunction	-12478 Sep 29 j 09:10	12°♋42'22	0°10'45
minimum elong	-12478 Sep 29 j 10:10	12°♋44'19	0°11'30
behind sun begin	-12478 Sep 28 j 15:08	12°♋07'49	
behind sun end	-12478 Sep 30 j 05:12	13°♋20'47	
desc. node	-12478 Oct 13 j 13:37	23°♋31'18	
	-12478 Oct 22 j 03:41	0°♌	
max. Earth dist.	-12478 Nov 11 j 21:25	15°♌24'56	2.43236 AU
morning rise	-12478 Nov 30 j 15:09	29°♌02'14	
	-12478 Dec 01 j 23:19	0°♍	
	-12477 Jan 13 j 21:44	0°♎	
	-12477 Feb 28 j 07:32	0°♏	
	-12477 Apr 17 j 18:45	0°♐	
	-12477 Jun 10 j 23:57	0°♑	
retrograde	-12477 Aug 24 j 02:04	23°♑07'50	
opposition	-12477 Oct 01 j 05:23	14°♑19'01	-0°40'41
greatest brilliancy	-12477 Oct 01 j 08:24	14°♑16'04	-1.6m
min. Earth dist.	-12477 Oct 05 j 16:11	12°♑34'35	0.62592 AU
asc. node	-12477 Oct 16 j 20:53	8°♑31'54	
direct	-12477 Nov 10 j 23:27	4°♑22'40	
	-12476 Jan 26 j 04:29	0°♒	
	-12476 Mar 15 j 08:13	0°♓	
	-12476 Apr 27 j 07:15	0°♈	
	-12476 Jun 06 j 10:08	0°♉	
	-12476 Jul 15 j 06:37	0°♊	
	-12476 Aug 23 j 00:29	0°♋	
desc. node	-12476 Aug 30 j 12:21	5°♋44'56	
evening set	-12476 Sep 29 j 21:49	28°♋44'51	
	-12476 Oct 01 j 14:06	0°♌	
	-12476 Nov 11 j 16:18	0°♍	
conjunction	-12476 Nov 26 j 08:07	10°♍22'41	-0°56'19
minimum elong	-12476 Nov 26 j 05:38	10°♍18'20	0°56'01
	-12476 Dec 24 j 17:11	0°♎	
max. Earth dist.	-12476 Dec 28 j 23:27	2°♎53'42	2.55131 AU
morning rise	-12475 Jan 19 j 22:32	17°♎37'11	
	-12475 Feb 07 j 18:23	0°♏	
	-12475 Mar 26 j 16:28	0°♐	
	-12475 May 14 j 12:25	0°♑	
	-12475 Jul 05 j 17:50	0°♒	
asc. node	-12475 Sep 02 j 20:51	26°♒57'14	
	-12475 Sep 13 j 10:49	0°♓	
retrograde	-12475 Oct 06 j 21:30	3°♓05'42	
	-12475 Oct 28 j 21:23	30°℞♒	
opposition	-12475 Nov 11 j 08:45	25°♒34'52	3°18'59
greatest brilliancy	-12475 Nov 12 j 04:06	25°♒17'19	-2.0m
min. Earth dist.	-12475 Nov 18 j 21:09	22°♒51'27	0.53182 AU
direct	-12475 Dec 20 j 13:01	16°♒26'50	
	-12474 Feb 08 j 08:34	0°♓	
	-12474 Mar 31 j 21:52	0°♈	
	-12474 May 13 j 18:18	0°♉	
	-12474 Jun 23 j 02:23	0°♊	
desc. node	-12474 Jul 18 j 16:43	19°♊17'43	
	-12474 Aug 01 j 22:24	0°♋	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12474 Sep 11 j 09:47	0°♌	
	-12474 Oct 23 j 05:51	0°♍	
evening set	-12474 Nov 21 j 21:10	20°♍32'32	
	-12474 Dec 05 j 19:27	0°♎	
conjunction	-12473 Jan 12 j 12:14	25°♎03'47	-1°15'38
minimum elong	-12473 Jan 12 j 12:21	25°♎04'00	1°15'57
	-12473 Jan 20 j 01:21	0°♏	
max. Earth dist.	-12473 Jan 27 j 17:12	4°♏59'10	2.63292 AU
morning rise	-12473 Mar 02 j 23:16	27°♏03'04	
	-12473 Mar 07 j 13:59	0°♐	
	-12473 Apr 23 j 20:07	0°♑	
	-12473 Jun 10 j 12:57	0°♒	
asc. node	-12473 Jul 21 j 15:39	25°♒25'38	
	-12473 Jul 29 j 04:28	0°♓	
	-12473 Sep 19 j 07:53	0°♈	
retrograde	-12473 Dec 08 j 12:58	27°♈15'07	
opposition	-12472 Jan 09 j 04:09	21°♈39'56	7°06'36
greatest brilliancy	-12472 Jan 10 j 15:32	21°♈13'50	-2.6m
min. Earth dist.	-12472 Jan 15 j 08:40	19°♈51'06	0.41580 AU
direct	-12472 Feb 11 j 20:59	15°♈13'24	
	-12472 Apr 03 j 05:05	0°♉	
	-12472 May 23 j 16:47	0°♊	
desc. node	-12472 Jun 04 j 22:20	8°♊08'26	
	-12472 Jul 06 j 19:58	0°♋	
	-12472 Aug 18 j 23:30	0°♌	
	-12472 Oct 01 j 15:35	0°♍	
	-12472 Nov 15 j 10:54	0°♎	
	-12472 Dec 31 j 10:11	0°♏	
evening set	-12471 Jan 03 j 15:30	2°♏04'45	
	-12471 Feb 16 j 03:23	0°♐	
conjunction	-12471 Feb 21 j 07:49	3°♐19'11	-0°56'48
minimum elong	-12471 Feb 21 j 09:22	3°♐21'40	0°57'28
max. Earth dist.	-12471 Feb 20 j 21:26	3°♐02'33	2.66344 AU
	-12471 Apr 03 j 21:54	0°♑	
morning rise	-12471 Apr 09 j 13:41	3°♑38'51	
	-12471 May 20 j 02:41	0°♒	
asc. node	-12471 Jun 07 j 06:46	11°♒57'10	
	-12471 Jul 04 j 10:45	0°♓	
	-12471 Aug 18 j 01:00	0°♈	
	-12471 Oct 01 j 11:11	0°♉	
	-12471 Nov 16 j 03:25	0°♊	
	-12470 Jan 08 j 06:43	0°♋	
retrograde	-12470 Feb 22 j 10:59	11°♋42'55	
min. Earth dist.	-12470 Mar 22 j 03:20	7°♋03'16	0.39988 AU
opposition	-12470 Mar 27 j 07:04	5°♋33'55	2°01'31
greatest brilliancy	-12470 Mar 27 j 00:10	5°♋38'55	-2.8m
desc. node	-12470 Apr 23 j 03:53	0°♋15'56	
direct	-12470 Apr 27 j 00:18	0°♋10'13	
	-12470 Jul 18 j 20:32	0°♌	
	-12470 Sep 07 j 09:33	0°♍	
	-12470 Oct 25 j 10:56	0°♎	
	-12470 Dec 12 j 03:04	0°♏	
	-12469 Jan 28 j 15:15	0°♐	
evening set	-12469 Feb 12 j 11:22	9°♐26'03	
	-12469 Mar 16 j 12:15	0°♑	
max. Earth dist.	-12469 Mar 17 j 23:58	0°♑57'49	2.64057 AU
conjunction	-12469 Apr 01 j 15:30	10°♑29'45	-0°14'18
minimum elong	-12469 Apr 01 j 16:07	10°♑30'46	0°15'04
behind sun begin	-12469 Apr 01 j 09:46	10°♑20'24	
behind sun end	-12469 Apr 01 j 22:28	10°♑41'09	
asc. node	-12469 Apr 24 j 22:19	25°♑50'39	
	-12469 May 01 j 03:56	0°♒	
morning rise	-12469 May 19 j 04:52	12°♒08'30	
	-12469 Jun 14 j 05:51	0°♓	
	-12469 Jul 26 j 17:53	0°♈	
	-12469 Sep 05 j 23:55	0°♉	
	-12469 Oct 16 j 13:48	0°♊	
	-12469 Nov 26 j 10:23	0°♋	
	-12468 Jan 08 j 08:38	0°♌	
	-12468 Feb 27 j 23:58	0°♍	
desc. node	-12468 Mar 10 j 05:42	5°♍08'28	
retrograde	-12468 Apr 18 j 17:20	14°♍27'12	
min. Earth dist.	-12468 May 19 j 01:36	8°♍17'07	0.51128 AU
opposition	-12468 May 26 j 18:33	5°♍27'29	-4°10'43
greatest brilliancy	-12468 May 25 j 14:15	5°♍53'30	-2.1m
	-12468 Jun 13 j 05:30	30°℞♌	
direct	-12468 Jun 30 j 04:57	28°♌03'49	
	-12468 Jul 18 j 03:56	0°♍	
	-12468 Sep 28 j 02:41	0°♎	
	-12468 Nov 19 j 19:24	0°♏	
	-12467 Jan 08 j 07:36	0°♐	
	-12467 Feb 24 j 22:27	0°♑	
asc. node	-12467 Mar 11 j 19:23	9°♑37'25	
evening set	-12467 Mar 23 j 21:06	17°♑32'02	
	-12467 Apr 11 j 14:33	0°♒	
max. Earth dist.	-12467 Apr 14 j 04:06	1°♒43'35	2.56685 AU
conjunction	-12467 May 12 j 22:50	21°♒25'56	0°37'52
minimum elong	-12467 May 12 j 21:12	21°♒23'06	0°37'22
	-12467 May 25 j 04:29	0°♓	
morning rise	-12467 Jul 03 j 01:55	28°♓00'13	
	-12467 Jul 05 j 19:04	0°♈	
	-12467 Aug 14 j 20:48	0°♉	
	-12467 Sep 23 j 01:21	0°♊	
	-12467 Nov 01 j 04:33	0°♋	
	-12467 Dec 11 j 06:42	0°♌	
	-12466 Jan 22 j 16:31	0°♍	
desc. node	-12466 Jan 26 j 00:39	2°♍15'17	
	-12466 Mar 11 j 05:40	0°♎	
retrograde	-12466 May 30 j 07:46	28°♎46'29	
min. Earth dist.	-12466 Jul 04 j 14:27	20°♎41'14	0.61463 AU
greatest brilliancy	-12466 Jul 08 j 07:54	19°♎12'27	-1.6m
opposition	-12466 Jul 09 j 03:06	18°♎53'22	-5°21'26
direct	-12466 Aug 15 j 19:41	10°♎04'41	
	-12466 Oct 22 j 11:58	0°♏	
	-12466 Dec 17 j 16:04	0°♐	
asc. node	-12465 Jan 27 j 22:38	24°♐44'42	
	-12465 Feb 05 j 09:04	0°♑	
	-12465 Mar 23 j 16:54	0°♒	
	-12465 May 06 j 06:51	0°♓	
evening set	-12465 May 08 j 17:53	1°♓44'46	
max. Earth dist.	-12465 May 25 j 15:35	13°♓53'35	2.45386 AU
	-12465 Jun 16 j 13:09	0°♈	
conjunction	-12465 Jul 02 j 21:40	12°♈16'39	1°12'53
minimum elong	-12465 Jul 02 j 20:53	12°♈15'08	1°13'01
	-12465 Jul 26 j 02:27	0°♉	
morning rise	-12465 Aug 31 j 07:21	28°♉07'16	
	-12465 Sep 02 j 17:07	0°♊	
	-12465 Oct 11 j 05:55	0°♋	
	-12465 Nov 19 j 14:31	0°♌	
desc. node	-12465 Dec 13 j 16:35	17°♌47'02	
	-12465 Dec 30 j 16:33	0°♍	
	-12464 Feb 12 j 12:43	0°♎	
	-12464 Apr 01 j 00:44	0°♏	
	-12464 Jun 04 j 04:09	0°♐	
retrograde	-12464 Jul 04 j 07:40	5°♐05'18	
	-12464 Aug 01 j 01:01	30°℞♏	
min. Earth dist.	-12464 Aug 12 j 11:10	25°♏36'51	0.66229 AU
opposition	-12464 Aug 13 j 04:23	25°♏19'32	-4°16'37
greatest brilliancy	-12464 Aug 13 j 02:29	25°♏21'27	-1.4m

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

direct	-12464 Sep 21 j 23:30	15°♏42'30	
	-12464 Nov 16 j 08:55	0°♐	
asc. node	-12464 Dec 15 j 05:15	13°♐56'52	
	-12463 Jan 13 j 02:22	0°♑	
	-12463 Mar 02 j 13:15	0°♒	
	-12463 Apr 15 j 18:41	0°♓	
	-12463 May 27 j 03:14	0°♈	
evening set	-12463 Jul 03 j 15:41	28°♈31'04	
	-12463 Jul 05 j 13:43	0°♉	
	-12463 Aug 13 j 00:15	0°♊	
conjunction	-12463 Sep 03 j 10:42	16°♊47'50	0°41'15
minimum elong	-12463 Sep 03 j 13:55	16°♊54'08	0°41'57
	-12463 Sep 20 j 09:11	0°♋	
max. Earth dist.	-12463 Oct 01 j 17:48	8°♋47'11	2.39148 AU
	-12463 Oct 29 j 13:53	0°♌	
desc. node	-12463 Oct 30 j 09:36	0°♌37'04	
morning rise	-12463 Nov 06 j 16:05	6°♌03'43	
	-12463 Dec 09 j 08:44	0°♍	
	-12462 Jan 21 j 08:39	0°♎	
	-12462 Mar 08 j 03:23	0°♏	
	-12462 Apr 26 j 22:16	0°♐	
	-12462 Jun 26 j 20:14	0°♑	
retrograde	-12462 Aug 09 j 03:47	9°♑27'47	
opposition	-12462 Sep 16 j 23:47	0°♑18'06	-1°54'27
greatest brilliancy	-12462 Sep 17 j 05:18	0°♑12'37	-1.4m
	-12462 Sep 17 j 18:02	30°℞♐	
min. Earth dist.	-12462 Sep 20 j 00:38	29°♐05'53	0.64800 AU
direct	-12462 Oct 27 j 18:10	20°♐20'27	
asc. node	-12462 Nov 02 j 11:53	20°♐32'51	
	-12462 Dec 10 j 02:45	0°♑	
	-12461 Feb 06 j 20:08	0°♒	
	-12461 Mar 25 j 11:34	0°♓	
	-12461 May 06 j 16:06	0°♈	
	-12461 Jun 15 j 10:47	0°♉	
	-12461 Jul 24 j 02:07	0°♊	
	-12461 Aug 31 j 15:27	0°♋	
evening set	-12461 Sep 06 j 22:23	4°♋50'55	
desc. node	-12461 Sep 17 j 05:40	12°♋45'00	
	-12461 Oct 10 j 00:41	0°♌	
conjunction	-12461 Nov 05 j 23:32	19°♌54'30	-0°35'18
minimum elong	-12461 Nov 05 j 21:12	19°♌50'17	0°34'46
	-12461 Nov 19 j 22:54	0°♍	
max. Earth dist.	-12461 Dec 15 j 05:03	17°♍49'55	2.50726 AU
	-12460 Jan 01 j 21:02	0°♎	
morning rise	-12460 Jan 02 j 11:18	0°♎24'18	
	-12460 Feb 15 j 23:07	0°♏	
	-12460 Apr 03 j 06:19	0°♐	
	-12460 May 23 j 08:36	0°♑	
	-12460 Jul 19 j 09:44	0°♒	
retrograde	-12460 Sep 17 j 23:15	16°♒38'22	
asc. node	-12460 Sep 19 j 14:24	16°♒37'22	
opposition	-12460 Oct 24 j 16:10	8°♒31'59	1°37'35
greatest brilliancy	-12460 Oct 25 j 00:23	8°♒24'14	-1.8m
min. Earth dist.	-12460 Oct 31 j 04:12	6°♒04'50	0.57453 AU
	-12460 Nov 21 j 02:45	30°℞♑	
direct	-12460 Dec 03 j 19:32	28°♑54'27	
	-12460 Dec 16 j 21:06	0°♒	
	-12459 Feb 25 j 06:41	0°♓	
	-12459 Apr 12 j 03:48	0°♈	
	-12459 May 23 j 10:02	0°♉	
	-12459 Jul 01 j 22:31	0°♊	
desc. node	-12459 Aug 04 j 07:35	25°♊31'49	
	-12459 Aug 10 j 04:33	0°♋	
	-12459 Sep 19 j 04:38	0°♌	
	-12459 Oct 30 j 15:36	0°♍	
evening set	-12459 Nov 02 j 16:39	2°♍09'13	
	-12459 Dec 12 j 22:28	0°♎	
conjunction	-12459 Dec 26 j 06:42	8°♎59'42	-1°13'35
minimum elong	-12459 Dec 26 j 05:44	8°♎58'04	1°13'41
max. Earth dist.	-12458 Jan 17 j 03:09	23°♎30'09	2.60689 AU
	-12458 Jan 27 j 00:56	0°♏	
morning rise	-12458 Feb 15 j 08:30	12°♏32'14	
	-12458 Mar 14 j 15:01	0°♐	
	-12458 May 01 j 07:09	0°♑	
	-12458 Jun 19 j 03:21	0°♒	
asc. node	-12458 Aug 07 j 10:32	28°♒41'23	
	-12458 Aug 09 j 19:40	0°♓	
	-12458 Oct 16 j 12:09	0°♈	
retrograde	-12458 Nov 11 j 04:05	3°♈41'41	
	-12458 Dec 05 j 15:12	30°℞♓	
opposition	-12458 Dec 14 j 07:25	27°♓19'07	6°00'12
greatest brilliancy	-12458 Dec 15 j 19:49	26°♓49'16	-2.3m
min. Earth dist.	-12458 Dec 22 j 02:13	24°♓46'45	0.45887 AU
direct	-12457 Jan 19 j 16:42	19°♓34'56	
	-12457 Mar 02 j 17:28	0°♈	
	-12457 Apr 24 j 08:14	0°♉	
	-12457 Jun 06 j 17:54	0°♊	
desc. node	-12457 Jun 22 j 14:39	11°♊24'05	
	-12457 Jul 18 j 07:08	0°♋	
	-12457 Aug 28 j 23:12	0°♌	
	-12457 Oct 10 j 16:16	0°♍	
	-12457 Nov 23 j 20:25	0°♎	
evening set	-12457 Dec 19 j 09:32	16°♎54'34	
	-12456 Jan 08 j 10:47	0°♏	
conjunction	-12456 Feb 06 j 21:55	19°♏01'32	-1°07'37
minimum elong	-12456 Feb 06 j 23:13	19°♏03'37	1°08'10
max. Earth dist.	-12456 Feb 12 j 07:56	22°♏30'17	2.65780 AU
	-12456 Feb 24 j 00:35	0°♐	
morning rise	-12456 Mar 25 j 17:18	19°♐38'23	
	-12456 Apr 10 j 21:40	0°♑	
	-12456 May 27 j 12:47	0°♒	
asc. node	-12456 Jun 24 j 02:22	17°♒51'58	
	-12456 Jul 12 j 18:16	0°♓	
	-12456 Aug 28 j 00:23	0°♈	
	-12456 Oct 14 j 16:49	0°♉	
	-12456 Dec 08 j 21:54	0°♊	
retrograde	-12455 Jan 24 j 12:48	11°♊49'59	
opposition	-12455 Feb 24 j 15:23	6°♊34'23	5°21'38
min. Earth dist.	-12455 Feb 24 j 02:00	6°♊43'26	0.38504 AU
greatest brilliancy	-12455 Feb 24 j 17:56	6°♊32'40	-2.9m
direct	-12455 Mar 27 j 04:21	1°♊26'10	
desc. node	-12455 May 09 j 20:48	12°♊04'06	
	-12455 Jun 13 j 22:57	0°♋	
	-12455 Aug 01 j 23:11	0°♌	
	-12455 Sep 17 j 09:26	0°♍	
	-12455 Nov 02 j 17:04	0°♎	
	-12455 Dec 19 j 12:32	0°♏	
evening set	-12454 Jan 28 j 04:16	25°♏15'17	
	-12454 Feb 04 j 15:01	0°♐	
max. Earth dist.	-12454 Mar 08 j 04:12	20°♐11'03	2.65581 AU
conjunction	-12454 Mar 17 j 06:49	26°♐03'01	-0°32'47
minimum elong	-12454 Mar 17 j 08:03	26°♐05'00	0°33'32
	-12454 Mar 23 j 09:36	0°♑	
morning rise	-12454 May 03 j 09:36	26°♑48'46	
	-12454 May 08 j 04:56	0°♒	
asc. node	-12454 May 11 j 16:56	2°♒19'42	
	-12454 Jun 21 j 15:57	0°♓	
	-12454 Aug 03 j 18:37	0°♈	
	-12454 Sep 14 j 20:36	0°♉	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12454 Oct 26 j 13:07	0°♊		
	-12454 Dec 08 j 02:30	0°♋		
	-12453 Jan 24 j 02:14	0°♌		
desc. node	-12453 Mar 27 j 23:02	22°♌55'27		
retrograde	-12453 Mar 31 j 06:23	23°♌00'09		
min. Earth dist.	-12453 Apr 28 j 19:18	17°♌36'54	0.46284 AU	
opposition	-12453 May 06 j 18:12	14°♌53'28	-2°32'16	
greatest brilliancy	-12453 May 05 j 22:50	15°♌10'06	-2.4m	
direct	-12453 Jun 08 j 14:39	8°♌15'55		
	-12453 Aug 17 j 00:42	0°♍		
	-12453 Oct 10 j 07:00	0°♎		
	-12453 Nov 29 j 05:37	0°♏		
	-12452 Jan 16 j 17:33	0°♐		
	-12452 Mar 03 j 23:16	0°♑		
evening set	-12452 Mar 07 j 19:31	2°♑28'59		
asc. node	-12452 Mar 28 j 11:55	15°♑58'52		
max. Earth dist.	-12452 Apr 02 j 12:56	19°♑18'26	2.60147 AU	
	-12452 Apr 18 j 14:10	0°♒		
conjunction	-12452 Apr 25 j 19:57	4°♒52'40	0°17'41	
minimum elong	-12452 Apr 25 j 19:12	4°♒51'23	0°17'01	
	-12452 Jun 01 j 07:45	0°♓		
morning rise	-12452 Jun 14 j 01:39	8°♓59'50		
	-12452 Jul 13 j 05:16	0°♈		
	-12452 Aug 22 j 15:42	0°♉		
	-12452 Oct 01 j 05:54	0°♊		
	-12452 Nov 09 j 19:38	0°♋		
	-12452 Dec 20 j 12:25	0°♌		
	-12451 Feb 02 j 05:55	0°♍		
desc. node	-12451 Feb 11 j 20:44	6°♍06'43		
	-12451 Mar 27 j 01:32	0°♎		
retrograde	-12451 May 15 j 05:01	13°♎07'23		
min. Earth dist.	-12451 Jun 17 j 15:33	5°♎43'40	0.57992 AU	
opposition	-12451 Jun 23 j 14:31	3°♎24'26	-5°16'34	
greatest brilliancy	-12451 Jun 22 j 12:59	3°♎49'21	-1.7m	
	-12451 Jul 02 j 18:23	30°℞♍		
direct	-12451 Jul 30 j 04:18	25°♍03'30		
	-12451 Aug 29 j 02:34	0°♎		
	-12451 Nov 03 j 20:49	0°♏		
	-12451 Dec 26 j 06:31	0°♐		
	-12450 Feb 12 j 21:58	0°♑		
asc. node	-12450 Feb 13 j 13:04	0°♑23'58		
	-12450 Mar 30 j 21:40	0°♒		
evening set	-12450 Apr 19 j 21:35	13°♒34'35		
max. Earth dist.	-12450 May 06 j 13:38	25°♒09'23	2.50092 AU	
	-12450 May 13 j 10:36	0°♓		
conjunction	-12450 Jun 11 j 15:14	21°♓01'34	1°04'12	
minimum elong	-12450 Jun 11 j 13:15	20°♓57'56	1°04'03	
	-12450 Jun 23 j 19:22	0°♈		
	-12450 Aug 02 j 12:33	0°♉		
morning rise	-12450 Aug 06 j 07:14	2°♉53'59		
	-12450 Sep 10 j 07:33	0°♊		
	-12450 Oct 19 j 00:26	0°♋		
	-12450 Nov 27 j 13:19	0°♌		
desc. node	-12450 Dec 30 j 13:55	24°♌05'10		
	-12449 Jan 07 j 22:33	0°♍		
	-12449 Feb 21 j 13:11	0°♎		
	-12449 Apr 13 j 22:17	0°♏		
retrograde	-12449 Jun 21 j 15:06	21°♏38'46		
min. Earth dist.	-12449 Jul 29 j 09:42	12°♏39'08	0.65098 AU	
opposition	-12449 Jul 31 j 14:43	11°♏45'50	-4°52'25	
greatest brilliancy	-12449 Jul 31 j 06:34	11°♏54'02	-1.4m	
direct	-12449 Sep 08 j 16:56	2°♏24'17		
	-12449 Dec 01 j 00:28	0°♐		
asc. node	-12448 Jan 01 j 19:23	17°♐26'35		
	-12448 Jan 23 j 01:01	0°♑		
	-12448 Mar 10 j 09:32	0°♒		
	-12448 Apr 23 j 06:49	0°♓		
	-12448 Jun 03 j 13:24	0°♈		
evening set	-12448 Jun 09 j 22:01	4°♈45'38		
	-12448 Jul 12 j 23:59	0°♉		
max. Earth dist.	-12448 Jul 18 j 12:58	4°♉17'25	2.38998 AU	
conjunction	-12448 Aug 08 j 11:55	20°♉37'39	1°03'41	
minimum elong	-12448 Aug 08 j 14:42	20°♉43'05	1°04'15	
	-12448 Aug 20 j 11:09	0°♊		
	-12448 Sep 27 j 20:30	0°♋		
morning rise	-12448 Oct 11 j 12:19	10°♋33'24		
	-12448 Nov 06 j 01:22	0°♌		
desc. node	-12448 Nov 16 j 04:53	7°♌35'23		
	-12448 Dec 16 j 21:09	0°♍		
	-12447 Jan 29 j 01:13	0°♎		
	-12447 Mar 16 j 10:56	0°♏		
	-12447 May 07 j 13:20	0°♐		
retrograde	-12447 Jul 25 j 23:13	26°♐13'10		
opposition	-12447 Sep 03 j 07:45	16°♐46'32	-2°57'38	
greatest brilliancy	-12447 Sep 03 j 12:17	16°♐42'01	-1.4m	
min. Earth dist.	-12447 Sep 04 j 21:46	16°♐08'32	0.66106 AU	
direct	-12447 Oct 13 j 20:38	6°♐53'25		
asc. node	-12447 Nov 19 j 01:51	13°♐48'08		
	-12447 Dec 26 j 06:40	0°♑		
	-12446 Feb 16 j 13:32	0°♒		
	-12446 Apr 02 j 21:50	0°♓		
	-12446 May 14 j 15:54	0°♈		
	-12446 Jun 23 j 05:53	0°♉		
	-12446 Jul 31 j 18:06	0°♊		
evening set	-12446 Aug 12 j 10:48	9°♊09'34		
	-12446 Sep 08 j 04:23	0°♋		
desc. node	-12446 Oct 04 j 00:37	19°♋51'39		
conjunction	-12446 Oct 13 j 12:14	27°♋02'54	-0°07'10	
minimum elong	-12446 Oct 13 j 11:41	27°♋01'50	0°06'28	
behind sun begin	-12446 Oct 12 j 11:28	26°♋16'10		
behind sun end	-12446 Oct 14 j 11:53	27°♋47'28		
	-12446 Oct 17 j 10:20	0°♌		
max. Earth dist.	-12446 Nov 26 j 11:22	29°♌27'07	2.45887 AU	
	-12446 Nov 27 j 05:40	0°♍		
morning rise	-12446 Dec 13 j 04:36	11°♍21'03		
	-12445 Jan 09 j 02:27	0°♎		
	-12445 Feb 23 j 07:43	0°♏		
	-12445 Apr 12 j 05:20	0°♐		
	-12445 Jun 03 j 09:27	0°♑		
	-12445 Aug 16 j 01:31	0°♒		
retrograde	-12445 Sep 02 j 02:57	1°♒41'53		
	-12445 Sep 18 j 07:16	30°℞♑		
asc. node	-12445 Oct 07 j 05:41	24°♑06'05		
opposition	-12445 Oct 09 j 19:23	23°♑06'48	0°06'52	
greatest brilliancy	-12445 Oct 09 j 19:53	23°♑06'19	-1.6m	
min. Earth dist.	-12445 Oct 15 j 00:40	21°♑05'33	0.60994 AU	
direct	-12445 Nov 19 j 10:39	13°♑14'17		
	-12444 Jan 16 j 21:28	0°♒		
	-12444 Mar 09 j 00:05	0°♓		
	-12444 Apr 21 j 17:56	0°♈		
	-12444 Jun 01 j 04:51	0°♉		
	-12444 Jul 10 j 06:12	0°♊		
	-12444 Aug 18 j 03:28	0°♋		
desc. node	-12444 Aug 21 j 01:00	2°♋13'09		
	-12444 Sep 26 j 19:38	0°♌		
evening set	-12444 Oct 12 j 15:19	11°♌40'42		
	-12444 Nov 06 j 23:45	0°♍		
conjunction	-12444 Dec 07 j 15:33	21°♍29'51	-1°04'44	
minimum elong	-12444 Dec 07 j 13:29	21°♍26'17	1°04'35	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12444 Dec 20 j 01:18	0°♎	
max. Earth dist.	-12443 Jan 05 j 10:32	11°♎03'51	2.57283 AU
morning rise	-12443 Jan 29 j 21:06	27°♎15'27	
	-12443 Feb 03 j 01:40	0°♏	
	-12443 Mar 21 j 19:17	0°♐	
	-12443 May 09 j 02:30	0°♑	
	-12443 Jun 28 j 17:34	0°♒	
asc. node	-12443 Aug 24 j 04:17	29°♒12'02	
	-12443 Aug 26 j 00:19	0°♓	
retrograde	-12443 Oct 18 j 18:50	13°♓42'36	
opposition	-12443 Nov 22 j 10:40	6°♓34'22	4°19'05
greatest brilliancy	-12443 Nov 23 j 13:04	6°♓11'06	-2.1m
min. Earth dist.	-12443 Nov 30 j 07:10	3°♓48'31	0.50622 AU
	-12443 Dec 13 j 01:22	30°℞♒	
direct	-12443 Dec 30 j 19:54	27°♒50'07	
	-12442 Jan 18 j 01:32	0°♓	
	-12442 Mar 23 j 13:51	0°♈	
	-12442 May 07 j 03:48	0°♉	
	-12442 Jun 17 j 05:37	0°♊	
desc. node	-12442 Jul 09 j 05:22	16°♊22'38	
	-12442 Jul 27 j 12:29	0°♋	
	-12442 Sep 06 j 07:33	0°♌	
	-12442 Oct 18 j 09:22	0°♍	
	-12442 Dec 01 j 02:39	0°♎	
evening set	-12442 Dec 02 j 04:59	0°♎44'18	
	-12441 Jan 15 j 10:31	0°♏	
conjunction	-12441 Jan 21 j 23:20	4°♏15'14	-1°14'08
minimum elong	-12441 Jan 21 j 23:59	4°♏16'18	1°14'33
max. Earth dist.	-12441 Feb 02 j 15:20	11°♏48'42	2.64390 AU
	-12441 Mar 02 j 22:33	0°♐	
morning rise	-12441 Mar 11 j 17:50	5°♐37'35	
	-12441 Apr 19 j 00:24	0°♑	
	-12441 Jun 05 j 06:15	0°♒	
asc. node	-12441 Jul 11 j 21:30	23°♒09'05	
	-12441 Jul 22 j 19:47	0°♓	
	-12441 Sep 10 j 00:04	0°♈	
	-12441 Nov 05 j 17:04	0°♉	
retrograde	-12441 Dec 25 j 14:01	12°♉37'34	
opposition	-12440 Jan 25 j 11:52	7°♉21'40	7°05'29
greatest brilliancy	-12440 Jan 26 j 15:10	7°♉02'38	-2.7m
min. Earth dist.	-12440 Jan 29 j 20:46	6°♉08'42	0.39827 AU
direct	-12440 Feb 26 j 19:22	1°♉34'33	
	-12440 May 13 j 08:31	0°♊	
desc. node	-12440 May 26 j 11:29	7°♊58'38	
	-12440 Jun 29 j 11:26	0°♋	
	-12440 Aug 12 j 21:44	0°♌	
	-12440 Sep 26 j 07:01	0°♍	
	-12440 Nov 10 j 12:15	0°♎	
	-12440 Dec 26 j 17:20	0°♏	
evening set	-12439 Jan 12 j 16:58	10°♏54'27	
	-12439 Feb 11 j 13:04	0°♐	
max. Earth dist.	-12439 Feb 26 j 11:00	9°♐32'37	2.66293 AU
conjunction	-12439 Mar 02 j 02:13	11°♐52'17	-0°48'52
minimum elong	-12439 Mar 02 j 03:46	11°♐54'45	0°49'34
	-12439 Mar 30 j 07:08	0°♑	
morning rise	-12439 Apr 18 j 04:39	12°♑14'14	
	-12439 May 15 j 08:06	0°♒	
asc. node	-12439 May 28 j 12:20	8°♒42'50	
	-12439 Jun 29 j 07:30	0°♓	
	-12439 Aug 12 j 06:47	0°♈	
	-12439 Sep 24 j 15:33	0°♉	
	-12439 Nov 07 j 07:56	0°♊	
	-12439 Dec 23 j 22:55	0°♋	
retrograde	-12438 Mar 08 j 19:32	27°♋53'29	
min. Earth dist.	-12438 Apr 05 j 08:15	23°♋05'21	0.41860 AU
opposition	-12438 Apr 12 j 01:12	21°♋00'59	0°07'08
greatest brilliancy	-12438 Apr 12 j 00:34	21°♋01'28	-2.7m
desc. node	-12438 Apr 13 j 16:26	20°♋30'42	
direct	-12438 May 13 j 11:04	15°♋13'04	
	-12438 Jul 06 j 14:16	0°♌	
	-12438 Aug 31 j 06:35	0°♍	
	-12438 Oct 19 j 19:33	0°♎	
	-12438 Dec 07 j 03:07	0°♏	
	-12437 Jan 23 j 22:26	0°♐	
evening set	-12437 Feb 21 j 06:16	17°♐59'54	
	-12437 Mar 11 j 22:14	0°♑	
max. Earth dist.	-12437 Mar 23 j 21:47	7°♑46'33	2.62879 AU
conjunction	-12437 Apr 10 j 15:01	19°♑24'00	-0°02'54
minimum elong	-12437 Apr 10 j 15:11	19°♑24'15	0°03'38
behind sun begin	-12437 Apr 09 j 19:30	18°♑51'48	
behind sun end	-12437 Apr 11 j 10:52	19°♑56'44	
asc. node	-12437 Apr 15 j 05:27	22°♑26'37	
	-12437 Apr 26 j 13:46	0°♒	
morning rise	-12437 May 28 j 15:11	21°♒45'48	
	-12437 Jun 09 j 12:35	0°♓	
	-12437 Jul 21 j 19:04	0°♈	
	-12437 Aug 31 j 16:59	0°♉	
	-12437 Oct 10 j 20:40	0°♊	
	-12437 Nov 20 j 02:56	0°♋	
	-12437 Dec 31 j 22:11	0°♌	
	-12436 Feb 16 j 13:29	0°♍	
desc. node	-12436 Feb 29 j 15:03	7°♍14'00	
retrograde	-12436 Apr 28 j 20:42	25°♍46'26	
min. Earth dist.	-12436 May 30 j 07:33	19°♍09'12	0.53756 AU
greatest brilliancy	-12436 Jun 05 j 07:22	16°♍53'51	-1.9m
opposition	-12436 Jun 06 j 12:19	16°♍26'30	-4°45'11
direct	-12436 Jul 11 j 18:51	8°♍40'07	
	-12436 Sep 19 j 11:19	0°♎	
	-12436 Nov 13 j 22:03	0°♏	
	-12435 Jan 03 j 06:11	0°♐	
	-12435 Feb 20 j 04:57	0°♑	
asc. node	-12435 Mar 02 j 04:33	6°♑25'06	
evening set	-12435 Apr 02 j 09:17	26°♑54'35	
	-12435 Apr 07 j 00:02	0°♒	
max. Earth dist.	-12435 Apr 21 j 15:51	9°♒55'26	2.54515 AU
	-12435 May 20 j 14:01	0°♓	
conjunction	-12435 May 23 j 05:40	1°♓52'27	0°48'34
minimum elong	-12435 May 23 j 03:41	1°♓48'57	0°48'10
	-12435 Jul 01 j 02:56	0°♈	
morning rise	-12435 Jul 14 j 17:37	10°♈06'48	
	-12435 Aug 10 j 01:31	0°♉	
	-12435 Sep 18 j 02:10	0°♊	
	-12435 Oct 27 j 00:39	0°♋	
	-12435 Dec 05 j 20:03	0°♌	
desc. node	-12434 Jan 16 j 10:08	29°♌47'32	
	-12434 Jan 16 j 17:21	0°♍	
	-12434 Mar 03 j 17:34	0°♎	
	-12434 May 01 j 15:36	0°♏	
retrograde	-12434 Jun 07 j 16:08	7°♏39'25	
	-12434 Jul 11 j 22:04	30°℞♎	
min. Earth dist.	-12434 Jul 13 j 21:36	29°♎13'01	0.63024 AU
opposition	-12434 Jul 17 j 14:13	27°♎44'25	-5°15'23
greatest brilliancy	-12434 Jul 16 j 23:00	27°♎59'38	-1.5m
direct	-12434 Aug 24 j 19:44	18°♎42'33	
	-12434 Oct 12 j 00:22	0°♏	
	-12434 Dec 11 j 13:34	0°♐	
asc. node	-12433 Jan 18 j 08:19	22°♐05'43	
	-12433 Jan 31 j 05:31	0°♑	
	-12433 Mar 18 j 21:38	0°♒	
	-12433 May 01 j 14:26	0°♓	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

evening set	-12433 May 20 j 04:54	13°♓19'33	
max. Earth dist.	-12433 Jun 09 j 04:30	27°♓59'24	2.42839 AU
	-12433 Jun 11 j 21:22	0°♈	
conjunction	-12433 Jul 15 j 20:57	25°♈44'00	1°13'14
minimum elong	-12433 Jul 15 j 21:23	25°♈44'50	1°13'33
	-12433 Jul 21 j 09:58	0°♉	
	-12433 Aug 28 j 23:24	0°♊	
morning rise	-12433 Sep 15 j 06:34	13°♊31'28	
	-12433 Oct 06 j 10:37	0°♋	
	-12433 Nov 14 j 16:53	0°♌	
desc. node	-12433 Dec 04 j 03:05	14°♌25'44	
	-12433 Dec 25 j 15:05	0°♍	
	-12432 Feb 07 j 02:31	0°♎	
	-12432 Mar 25 j 13:03	0°♏	
	-12432 May 21 j 11:26	0°♐	
retrograde	-12432 Jul 12 j 04:57	13°♐07'16	
opposition	-12432 Aug 20 j 22:17	3°♐27'16	-3°50'35
greatest brilliancy	-12432 Aug 20 j 23:15	3°♐26'18	-1.4m
min. Earth dist.	-12432 Aug 21 j 01:04	3°♐24'28	0.66449 AU
	-12432 Aug 29 j 17:24	30°℞♏	
direct	-12432 Sep 30 j 00:45	23°♏43'13	
	-12432 Nov 03 j 12:54	0°♐	
asc. node	-12432 Dec 05 j 15:00	13°♐11'18	
	-12431 Jan 06 j 17:21	0°♑	
	-12431 Feb 25 j 06:01	0°♒	
	-12431 Apr 10 j 20:03	0°♓	
	-12431 May 22 j 08:01	0°♈	
	-12431 Jun 30 j 19:39	0°♉	
evening set	-12431 Jul 17 j 19:00	13°♉11'06	
	-12431 Aug 08 j 06:36	0°♊	
	-12431 Sep 15 j 15:38	0°♋	
conjunction	-12431 Sep 18 j 04:29	1°♋58'01	0°24'28
minimum elong	-12431 Sep 18 j 06:40	2°♋02'15	0°25'12
desc. node	-12431 Oct 20 j 19:43	26°♋58'20	
	-12431 Oct 24 j 20:03	0°♌	
max. Earth dist.	-12431 Oct 28 j 05:17	2°♌32'36	2.41195 AU
morning rise	-12431 Nov 20 j 13:07	19°♌49'20	
	-12431 Dec 04 j 14:07	0°♍	
	-12430 Jan 16 j 11:27	0°♎	
	-12430 Mar 02 j 22:58	0°♏	
	-12430 Apr 20 j 19:38	0°♐	
	-12430 Jun 15 j 21:58	0°♑	
retrograde	-12430 Aug 17 j 15:16	17°♑41'01	
opposition	-12430 Sep 25 j 02:34	8°♑42'26	-1°12'57
greatest brilliancy	-12430 Sep 25 j 07:06	8°♑37'58	-1.5m
min. Earth dist.	-12430 Sep 28 j 22:35	7°♑11'50	0.63698 AU
	-12430 Oct 22 j 02:52	30°℞♐	
asc. node	-12430 Oct 23 j 20:32	29°♐42'07	
direct	-12430 Nov 04 j 21:35	28°♐44'30	
	-12430 Nov 19 j 06:26	0°♑	
	-12429 Jan 30 j 19:29	0°♒	
	-12429 Mar 19 j 19:23	0°♓	
	-12429 May 01 j 11:07	0°♈	
	-12429 Jun 10 j 10:44	0°♉	
	-12429 Jul 19 j 04:55	0°♊	
	-12429 Aug 26 j 20:12	0°♋	
desc. node	-12429 Sep 07 j 17:26	9°♋08'05	
evening set	-12429 Sep 20 j 17:14	19°♋01'50	
	-12429 Oct 05 j 06:46	0°♌	
	-12429 Nov 15 j 05:57	0°♍	
conjunction	-12429 Nov 18 j 08:53	2°♍13'52	-0°48'14
minimum elong	-12429 Nov 18 j 06:18	2°♍09'16	0°47'50
max. Earth dist.	-12429 Dec 24 j 00:05	27°♍08'56	2.53225 AU
	-12429 Dec 28 j 04:08	0°♎	
morning rise	-12428 Jan 13 j 05:28	10°♎51'34	
	-12428 Feb 11 j 04:20	0°♏	
	-12428 Mar 29 j 04:41	0°♐	
	-12428 May 17 j 10:55	0°♑	
	-12428 Jul 10 j 04:38	0°♒	
asc. node	-12428 Sep 09 j 21:38	24°♒15'39	
retrograde	-12428 Sep 28 j 12:05	26°♒15'09	
opposition	-12428 Nov 03 j 12:45	18°♒27'34	2°34'32
greatest brilliancy	-12428 Nov 04 j 02:59	18°♒14'24	-1.9m
min. Earth dist.	-12428 Nov 10 j 15:00	15°♒50'03	0.55176 AU
direct	-12428 Dec 13 j 04:45	9°♒04'05	
	-12427 Feb 16 j 00:44	0°♓	
	-12427 Apr 05 j 12:04	0°♈	
	-12427 May 17 j 14:01	0°♉	
	-12427 Jun 26 j 12:39	0°♊	
desc. node	-12427 Jul 25 j 21:03	22°♊17'29	
	-12427 Aug 05 j 01:34	0°♋	
	-12427 Sep 14 j 06:35	0°♌	
	-12427 Oct 25 j 21:15	0°♍	
evening set	-12427 Nov 13 j 19:46	13°♍15'15	
	-12427 Dec 08 j 06:24	0°♎	
conjunction	-12426 Jan 05 j 06:43	18°♎44'38	-1°15'29
minimum elong	-12426 Jan 05 j 06:23	18°♎44'05	1°15'43
	-12426 Jan 22 j 09:42	0°♏	
max. Earth dist.	-12426 Jan 23 j 11:38	0°♏42'21	2.62222 AU
morning rise	-12426 Feb 24 j 09:56	21°♏21'42	
	-12426 Mar 09 j 22:00	0°♐	
	-12426 Apr 26 j 07:46	0°♑	
	-12426 Jun 13 j 10:59	0°♒	
asc. node	-12426 Jul 28 j 17:14	27°♒23'31	
	-12426 Aug 02 j 03:55	0°♓	
	-12426 Sep 26 j 22:08	0°♈	
retrograde	-12426 Nov 26 j 02:25	16°♈57'12	
opposition	-12426 Dec 28 j 10:00	11°♈01'39	6°45'04
greatest brilliancy	-12426 Dec 29 j 23:57	10°♈32'14	-2.5m
min. Earth dist.	-12425 Jan 04 j 14:13	8°♈49'12	0.43380 AU
direct	-12425 Feb 01 j 08:41	3°♈59'49	
	-12425 Apr 13 j 23:59	0°♉	
	-12425 May 30 j 06:27	0°♊	
desc. node	-12425 Jun 13 j 02:37	9°♊35'44	
	-12425 Jul 12 j 00:47	0°♋	
	-12425 Aug 23 j 09:46	0°♌	
	-12425 Oct 05 j 13:50	0°♍	
	-12425 Nov 19 j 00:53	0°♎	
evening set	-12425 Dec 28 j 19:19	26°♎06'36	
	-12424 Jan 03 j 19:14	0°♏	
conjunction	-12424 Feb 15 j 19:17	27°♏40'39	-1°01'50
minimum elong	-12424 Feb 15 j 20:46	27°♏43'03	1°02'27
max. Earth dist.	-12424 Feb 17 j 23:11	29°♏03'46	2.66196 AU
	-12424 Feb 19 j 10:19	0°♐	
morning rise	-12424 Apr 03 j 05:58	28°♐04'25	
	-12424 Apr 06 j 05:55	0°♑	
	-12424 May 22 j 15:22	0°♒	
asc. node	-12424 Jun 14 j 08:49	14°♒51'39	
	-12424 Jul 07 j 08:29	0°♓	
	-12424 Aug 21 j 14:33	0°♈	
	-12424 Oct 06 j 04:04	0°♉	
	-12424 Nov 23 j 08:53	0°♊	
retrograde	-12423 Feb 10 j 09:13	29°♊13'41	
min. Earth dist.	-12423 Mar 10 j 22:20	24°♊29'38	0.38969 AU
opposition	-12423 Mar 14 j 05:51	23°♊34'41	3°33'35
greatest brilliancy	-12423 Mar 13 j 23:47	23°♊38'52	-2.8m
direct	-12423 Apr 13 j 14:37	18°♊24'09	
desc. node	-12423 Apr 30 j 07:57	20°♊07'52	
	-12423 May 30 j 00:51	0°♋	

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12423 Jul 24 j 21:17	0°♌	
	-12423 Sep 11 j 05:31	0°♍	
	-12423 Oct 28 j 09:54	0°♎	
	-12423 Dec 14 j 15:58	0°♏	
	-12422 Jan 30 j 23:30	0°♐	
evening set	-12422 Feb 05 j 23:31	3°♐49'01	
max. Earth dist.	-12422 Mar 13 j 21:34	26°♐49'11	2.64848 AU
	-12422 Mar 18 j 19:42	0°♑	
conjunction	-12422 Mar 26 j 01:36	4°♑41'45	-0°22'22
minimum elong	-12422 Mar 26 j 02:31	4°♑43'14	0°23'06
asc. node	-12422 May 01 j 23:56	28°♑57'17	
	-12422 May 03 j 13:38	0°♒	
morning rise	-12422 May 12 j 08:33	5°♒52'22	
	-12422 Jun 16 j 20:11	0°♓	
	-12422 Jul 29 j 15:11	0°♈	
	-12422 Sep 09 j 05:49	0°♉	
	-12422 Oct 20 j 06:15	0°♊	
	-12422 Nov 30 j 17:04	0°♋	
	-12421 Jan 13 j 19:43	0°♌	
	-12421 Mar 11 j 22:32	0°♍	
desc. node	-12421 Mar 18 j 11:06	2°♍08'03	
retrograde	-12421 Apr 11 j 16:01	5°♍57'55	
min. Earth dist.	-12421 May 11 j 02:49	0°♍10'06	0.48945 AU
	-12421 May 11 j 14:24	30°℞♌	
greatest brilliancy	-12421 May 18 j 00:19	27°♌42'41	-2.2m
opposition	-12421 May 19 j 02:13	27°♌19'32	-3°35'22
direct	-12421 Jun 21 j 20:17	20°♌15'48	
	-12421 Aug 04 j 00:32	0°♍	
	-12421 Oct 03 j 10:41	0°♎	
	-12421 Nov 23 j 19:06	0°♏	
	-12420 Jan 11 j 20:15	0°♐	
	-12420 Feb 28 j 07:38	0°♑	
evening set	-12420 Mar 16 j 22:46	11°♑25'36	
asc. node	-12420 Mar 18 j 19:55	12°♑39'24	
max. Earth dist.	-12420 Apr 09 j 04:37	26°♑46'38	2.58329 AU
	-12420 Apr 14 j 00:11	0°♒	
conjunction	-12420 May 05 j 11:33	14°♒34'23	0°29'24
minimum elong	-12420 May 05 j 10:16	14°♒32'12	0°28'49
	-12420 May 27 j 16:39	0°♓	
morning rise	-12420 Jun 24 j 15:39	19°♓56'25	
	-12420 Jul 08 j 11:11	0°♈	
	-12420 Aug 17 j 17:11	0°♉	
	-12420 Sep 26 j 01:56	0°♊	
	-12420 Nov 04 j 09:13	0°♋	
	-12420 Dec 14 j 15:57	0°♌	
	-12419 Jan 26 j 11:20	0°♍	
desc. node	-12419 Feb 02 j 07:14	4°♍31'17	
	-12419 Mar 16 j 10:34	0°♎	
retrograde	-12419 May 24 j 01:08	22°♎39'40	
min. Earth dist.	-12419 Jun 27 j 12:22	14°♎52'00	0.60006 AU
opposition	-12419 Jul 02 j 16:09	12°♎49'55	-5°22'15
greatest brilliancy	-12419 Jul 01 j 17:56	13°♎11'52	-1.6m
direct	-12419 Aug 08 j 20:51	4°♎12'53	
	-12419 Oct 27 j 08:36	0°♏	
	-12419 Dec 20 j 17:13	0°♐	
asc. node	-12418 Feb 03 j 22:20	27°♐27'17	
	-12418 Feb 07 j 23:34	0°♑	
	-12418 Mar 26 j 05:04	0°♒	
evening set	-12418 Apr 30 j 10:36	24°♒06'08	
	-12418 May 08 j 19:43	0°♓	
max. Earth dist.	-12418 May 16 j 18:25	5°♓38'55	2.47519 AU
	-12418 Jun 19 j 04:11	0°♈	
conjunction	-12418 Jun 23 j 10:13	3°♈09'53	1°10'13
minimum elong	-12418 Jun 23 j 08:45	3°♈07'09	1°10'14
	-12418 Jul 28 j 19:45	0°♉	
morning rise	-12418 Aug 20 j 02:42	17°♉13'53	
	-12418 Sep 05 j 12:23	0°♊	
	-12418 Oct 14 j 02:37	0°♋	
	-12418 Nov 22 j 12:01	0°♌	
desc. node	-12418 Dec 20 j 23:14	20°♌56'10	
	-12417 Jan 02 j 15:25	0°♍	
	-12417 Feb 15 j 16:24	0°♎	
	-12417 Apr 06 j 00:28	0°♏	
retrograde	-12417 Jun 29 j 13:48	29°♏51'26	
min. Earth dist.	-12417 Aug 07 j 03:02	20°♏35'07	0.65837 AU
opposition	-12417 Aug 08 j 11:55	20°♏02'00	-4°33'06
greatest brilliancy	-12417 Aug 08 j 07:25	20°♏06'32	-1.4m
direct	-12417 Sep 16 j 23:28	10°♏31'22	
	-12417 Nov 22 j 20:45	0°♐	
asc. node	-12417 Dec 23 j 04:25	15°♐37'05	
	-12416 Jan 17 j 07:41	0°♑	
	-12416 Mar 05 j 08:06	0°♒	
	-12416 Apr 18 j 11:15	0°♓	
	-12416 May 29 j 20:12	0°♈	
evening set	-12416 Jun 23 j 02:31	18°♈18'47	
	-12416 Jul 08 j 07:26	0°♉	
	-12416 Aug 15 j 18:25	0°♊	
conjunction	-12416 Aug 23 j 00:47	5°♊41'48	0°52'24
minimum elong	-12416 Aug 23 j 04:11	5°♊48'28	0°53'03
max. Earth dist.	-12416 Aug 29 j 06:05	10°♊34'21	2.38354 AU
	-12416 Sep 23 j 03:13	0°♋	
morning rise	-12416 Oct 26 j 11:38	25°♋36'44	
	-12416 Nov 01 j 07:01	0°♌	
desc. node	-12416 Nov 06 j 15:53	4°♌02'01	
	-12416 Dec 12 j 00:50	0°♍	
	-12415 Jan 24 j 00:43	0°♎	
	-12415 Mar 10 j 23:06	0°♏	
	-12415 Apr 30 j 10:42	0°♐	
	-12415 Jul 06 j 10:33	0°♑	
retrograde	-12415 Aug 03 j 02:00	4°♑14'09	
	-12415 Aug 28 j 12:53	30°℞♐	
opposition	-12415 Sep 11 j 03:57	24°♐56'32	-2°22'11
greatest brilliancy	-12415 Sep 11 j 09:22	24°♐51'08	-1.4m
min. Earth dist.	-12415 Sep 13 j 13:36	23°♐59'05	0.65496 AU
direct	-12415 Oct 21 j 20:15	15°♐00'07	
asc. node	-12415 Nov 09 j 10:56	17°♐02'06	
	-12415 Dec 17 j 01:43	0°♑	
	-12414 Feb 10 j 11:50	0°♒	
	-12414 Mar 28 j 14:09	0°♓	
	-12414 May 09 j 15:09	0°♈	
	-12414 Jun 18 j 08:22	0°♉	
	-12414 Jul 26 j 22:27	0°♊	
evening set	-12414 Aug 26 j 23:35	24°♊13'45	
	-12414 Sep 03 j 10:10	0°♋	
desc. node	-12414 Sep 24 j 11:22	16°♋11'23	
	-12414 Oct 12 j 17:05	0°♌	
conjunction	-12414 Oct 27 j 01:46	10°♌42'25	-0°23'53
minimum elong	-12414 Oct 26 j 23:59	10°♌39'07	0°23'16
	-12414 Nov 22 j 12:46	0°♍	
max. Earth dist.	-12414 Dec 07 j 17:18	10°♍48'41	2.48591 AU
morning rise	-12414 Dec 24 j 23:44	22°♍52'10	
	-12413 Jan 04 j 08:51	0°♎	
	-12413 Feb 18 j 10:35	0°♏	
	-12413 Apr 06 j 21:49	0°♐	
	-12413 May 27 j 16:30	0°♑	
	-12413 Jul 27 j 07:29	0°♒	
retrograde	-12413 Sep 11 j 13:33	10°♒31'43	
asc. node	-12413 Sep 27 j 14:35	8°♒51'41	
opposition	-12413 Oct 18 j 17:18	2°♒11'48	0°57'41

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

greatest brilliancy	-12413 Oct 18 j 21:45	2°♒07'33	-1.7m	
	-12413 Oct 24 j 11:05	30°℞♑		
min. Earth dist.	-12413 Oct 24 j 15:59	29°♑55'22	0.59137 AU	
direct	-12413 Nov 28 j 03:00	22°♑25'53		
	-12412 Jan 03 j 21:42	0°♒		
	-12412 Mar 02 j 00:57	0°♓		
	-12412 Apr 15 j 21:33	0°♈		
	-12412 May 26 j 19:03	0°♉		
	-12412 Jul 05 j 02:09	0°♊		
desc. node	-12412 Aug 11 j 11:57	28°♊44'14		
	-12412 Aug 13 j 03:39	0°♋		
	-12412 Sep 21 j 23:07	0°♌		
evening set	-12412 Oct 24 j 20:49	24°♌01'02		
	-12412 Nov 02 j 05:46	0°♍		
	-12412 Dec 15 j 09:01	0°♎		
conjunction	-12412 Dec 18 j 11:35	2°♎06'38	-1°10'41	
minimum elong	-12412 Dec 18 j 10:07	2°♎04'09	1°10'40	
max. Earth dist.	-12411 Jan 12 j 08:33	18°♎47'06	2.59268 AU	
	-12411 Jan 29 j 09:21	0°♏		
morning rise	-12411 Feb 08 j 10:53	6°♏33'23		
	-12411 Mar 16 j 23:52	0°♐		
	-12411 May 03 j 21:23	0°♑		
	-12411 Jun 22 j 08:56	0°♒		
asc. node	-12411 Aug 14 j 11:48	29°♒42'07		
	-12411 Aug 15 j 01:46	0°♓		
retrograde	-12411 Oct 31 j 13:35	25°♓05'25		
opposition	-12411 Dec 04 j 09:51	18°♓21'31	5°17'52	
greatest brilliancy	-12411 Dec 05 j 18:33	17°♓53'41	-2.2m	
min. Earth dist.	-12411 Dec 12 j 08:37	15°♓39'55	0.48010 AU	
direct	-12410 Jan 10 j 18:23	10°♓07'39		
	-12410 Mar 13 j 00:21	0°♈		
	-12410 Apr 29 j 19:36	0°♉		
	-12410 Jun 10 j 23:39	0°♊		
desc. node	-12410 Jun 29 j 18:23	13°♊44'54		
	-12410 Jul 21 j 21:05	0°♋		
	-12410 Sep 01 j 01:56	0°♌		
	-12410 Oct 13 j 10:30	0°♍		
	-12410 Nov 26 j 08:27	0°♎		
evening set	-12410 Dec 12 j 04:56	10°♎34'22		
	-12409 Jan 10 j 18:52	0°♏		
conjunction	-12409 Jan 31 j 05:20	13°♏14'34	-1°10'54	
minimum elong	-12409 Jan 31 j 06:24	13°♏16'17	1°11'25	
max. Earth dist.	-12409 Feb 08 j 11:14	18°♏33'15	2.65266 AU	
	-12409 Feb 26 j 07:15	0°♐		
morning rise	-12409 Mar 20 j 09:37	14°♐07'42		
	-12409 Apr 14 j 06:14	0°♑		
	-12409 May 31 j 03:24	0°♒		
asc. node	-12409 Jul 02 j 03:57	20°♒33'05		
	-12409 Jul 16 j 21:37	0°♓		
	-12409 Sep 02 j 05:11	0°♈		
	-12409 Oct 22 j 10:32	0°♉		
retrograde	-12408 Jan 12 j 00:14	29°♉09'53		
opposition	-12408 Feb 11 j 19:53	24°♉00'46	6°23'20	
greatest brilliancy	-12408 Feb 12 j 09:36	23°♉51'29	-2.8m	
min. Earth dist.	-12408 Feb 13 j 14:27	23°♉31'58	0.38758 AU	
direct	-12408 Mar 13 j 23:22	18°♉41'43		
	-12408 Apr 27 j 17:35	0°♊		
desc. node	-12408 May 17 j 00:43	9°♊33'17		
	-12408 Jun 20 j 20:59	0°♋		
	-12408 Aug 06 j 08:25	0°♌		
	-12408 Sep 20 j 16:58	0°♍		
	-12408 Nov 05 j 11:01	0°♎		
	-12408 Dec 21 j 23:02	0°♏		
evening set	-12407 Jan 21 j 15:42	19°♏37'04		
	-12407 Feb 06 j 22:05	0°♐		
max. Earth dist.	-12407 Mar 04 j 02:49	16°♐06'58	2.66009 AU	
	-12407 Mar 10 j 20:10	20°♐25'53	-0°39'52	
conjunction	-12407 Mar 10 j 21:34	20°♐28'09	0°40'36	
minimum elong	-12407 Mar 25 j 16:44	0°♑		
morning rise	-12407 Apr 26 j 21:19	20°♑57'00		
	-12407 May 10 j 14:58	0°♒		
asc. node	-12407 May 18 j 18:21	5°♒23'54		
	-12407 Jun 24 j 07:55	0°♓		
	-12407 Aug 06 j 19:34	0°♈		
	-12407 Sep 18 j 09:59	0°♉		
	-12407 Oct 30 j 19:51	0°♊		
	-12407 Dec 13 j 15:21	0°♋		
	-12406 Feb 02 j 19:49	0°♌		
retrograde	-12406 Mar 21 j 23:00	12°♌58'14		
desc. node	-12406 Apr 04 j 03:47	11°♌44'33		
min. Earth dist.	-12406 Apr 18 j 21:20	7°♌53'38	0.44184 AU	
opposition	-12406 Apr 26 j 13:07	5°♌22'48	-1°31'26	
greatest brilliancy	-12406 Apr 26 j 01:22	5°♌32'28	-2.5m	
	-12406 May 17 j 07:02	30°℞♋		
direct	-12406 May 28 j 16:37	29°♋07'40		
	-12406 Jun 09 j 11:57	0°♌		
	-12406 Aug 23 j 01:02	0°♍		
	-12406 Oct 13 j 19:59	0°♎		
	-12406 Dec 01 j 23:35	0°♏		
	-12405 Jan 19 j 03:47	0°♐		
evening set	-12405 Mar 02 j 04:01	26°♐41'21		
	-12405 Mar 07 j 07:21	0°♑		
max. Earth dist.	-12405 Mar 30 j 02:51	14°♑50'52	2.61469 AU	
asc. node	-12405 Apr 05 j 12:32	19°♑03'49		
conjunction	-12405 Apr 19 j 20:00	28°♑34'12	0°08'57	
minimum elong	-12405 Apr 19 j 19:38	28°♑33'36	0°08'16	
behind sun begin	-12405 Apr 19 j 02:00	28°♑04'10		
behind sun end	-12405 Apr 20 j 13:17	29°♑03'04		
	-12405 Apr 21 j 23:18	0°♒		
	-12405 Jun 04 j 20:11	0°♓		
morning rise	-12405 Jun 07 j 10:14	1°♓48'31		
	-12405 Jul 16 j 22:27	0°♈		
	-12405 Aug 26 j 14:26	0°♉		
	-12405 Oct 05 j 10:16	0°♊		
	-12405 Nov 14 j 06:14	0°♋		
	-12405 Dec 25 j 07:32	0°♌		
	-12404 Feb 07 j 21:25	0°♍		
desc. node	-12404 Feb 20 j 02:25	7°♍26'24		
	-12404 Apr 06 j 00:22	0°♎		
retrograde	-12404 May 08 j 11:01	6°♎20'18		
	-12404 Jun 08 j 01:48	30°℞♍		
min. Earth dist.	-12404 Jun 10 j 00:11	29°♍16'34	0.56175 AU	
greatest brilliancy	-12404 Jun 15 j 09:18	27°♍12'27	-1.8m	
opposition	-12404 Jun 16 j 12:55	26°♍45'48	-5°07'18	
direct	-12404 Jul 22 j 13:09	18°♍39'20		
	-12404 Sep 08 j 07:31	0°♎		
	-12404 Nov 07 j 14:15	0°♏		
	-12404 Dec 29 j 01:01	0°♐		
	-12403 Feb 15 j 09:45	0°♑		
asc. node	-12403 Feb 20 j 12:47	3°♑16'23		
	-12403 Apr 02 j 08:23	0°♒		
evening set	-12403 Apr 12 j 06:26	6°♒41'12		
max. Earth dist.	-12403 Apr 29 j 23:16	18°♒49'14	2.52127 AU	
	-12403 May 15 j 22:53	0°♓		
conjunction	-12403 Jun 03 j 02:01	12°♓56'23	0°58'08	
minimum elong	-12403 Jun 02 j 23:55	12°♓52'37	0°57'53	
	-12403 Jun 26 j 10:26	0°♈		
morning rise	-12403 Jul 27 j 05:21	23°♈05'51		
	-12403 Aug 05 j 06:43	0°♉		

Attention, astronomical year style is used: The year -12898 in astronomical counting style is the year 12899 BCE in historical counting style.

	-12403 Sep 13 j 04:19	0°♊		
	-12403 Oct 21 j 23:22	0°♋		
	-12403 Nov 30 j 14:07	0°♌		
desc. node	-12402 Jan 06 j 20:22	27°♌01'00		
	-12402 Jan 11 j 02:23	0°♍		
	-12402 Feb 25 j 02:43	0°♎		
	-12402 Apr 19 j 10:22	0°♏		
retrograde	-12402 Jun 15 j 19:14	16°♏11'54		
min. Earth dist.	-12402 Jul 22 j 21:27	7°♏26'21	0.64282 AU	
opposition	-12402 Jul 25 j 18:08	6°♏17'22	-5°03'52	
greatest brilliancy	-12402 Jul 25 j 06:55	6°♏28'38	-1.4m	
	-12402 Aug 12 j 10:09	30°℞♎		
direct	-12402 Sep 02 j 11:01	27°♎04'03		
	-12402 Sep 25 j 06:10	0°♏		
	-12402 Dec 04 j 23:25	0°♐		
asc. node	-12401 Jan 08 j 18:15	19°♐40'19		
	-12401 Jan 25 j 22:36	0°♑		
	-12401 Mar 14 j 00:58	0°♒		
	-12401 Apr 26 j 21:29	0°♓		
evening set	-12401 Jun 01 j 06:51	25°♓35'53		
	-12401 Jun 07 j 05:13	0°♈		
max. Earth dist.	-12401 Jun 27 j 14:11	15°♈20'17	2.40475 AU	
	-12401 Jul 16 j 17:19	0°♉		
conjunction	-12401 Jul 29 j 14:11	9°♉58'28	1°09'30	
minimum elong	-12401 Jul 29 j 16:01	10°♉02'03	1°09'57	
	-12401 Aug 24 j 05:32	0°♊		
morning rise	-12401 Sep 30 j 16:42	29°♊16'01		
	-12401 Oct 01 j 15:22	0°♋		
	-12401 Nov 09 j 20:02	0°♌		
desc. node	-12401 Nov 24 j 11:13	10°♌55'36		
	-12401 Dec 20 j 15:23	0°♍		
	-12400 Feb 01 j 20:41	0°♎		
	-12400 Mar 19 j 13:12	0°♏		
	-12400 May 12 j 00:42	0°♐		
retrograde	-12400 Jul 20 j 03:04	21°♐04'50		
opposition	-12400 Aug 28 j 15:40	11°♐31'52	-3°21'01	
greatest brilliancy	-12400 Aug 28 j 18:52	11°♐28'40	-1.4m	
min. Earth dist.	-12400 Aug 29 j 14:05	11°♐09'23	0.66384 AU	
direct	-12400 Oct 08 j 00:06	1°♐42'12		
asc. node	-12400 Nov 26 j 00:53	13°♐24'28		
	-12400 Dec 30 j 17:22	0°♑		
	-12399 Feb 19 j 18:06	0°♒		
	-12399 Apr 05 j 19:35	0°♓		
	-12399 May 17 j 12:01	0°♈		
	-12399 Jun 26 j 01:35	0°♉		
evening set	-12399 Aug 01 j 05:15	28°♉10'22		
	-12399 Aug 03 j 13:11	0°♊		
	-12399 Sep 10 j 22:24	0°♋		
conjunction	-12399 Oct 02 j 16:45	16°♋46'52	0°06'31	
minimum elong	-12399 Oct 02 j 17:23	16°♋48'06	0°07'14	
behind sun begin	-12399 Oct 01 j 17:18	16°♋02'01		
behind sun end	-12399 Oct 03 j 17:29	17°♋34'08		
desc. node	-12399 Oct 11 j 06:10	23°♋18'13		
	-12399 Oct 20 j 02:43	0°♌		
max. Earth dist.	-12399 Nov 15 j 21:50	19°♌53'45	2.43704 AU	
	-12399 Nov 29 j 20:02	0°♍		
morning rise	-12399 Dec 03 j 17:33	2°♍47'49		