Attention, astronomical year style is used: The year -10900 in astronomical counting style is the year 10901 BCE in historical counting style.

direct	-10900 Mar 21 j 21:41	22°♈33'34		
evening set	-10900 Jun 20 j 00:49	24°♈29'30		
conjunction	-10900 Jul 05 j 08:56	25°♈03'53	1°25'59	
minimum elong	-10900 Jul 05 j 08:55	25°♈03'53	1°26'11	
max. Earth dist.	-10900 Jul 04 j 14:59	25°♈02'12	31.27682 AU	
morning rise	-10900 Jul 20 j 14:15	25°♈38'04		
retrograde	-10900 Oct 15 j 07:53	27°♈30'51		
opposition	-10899 Jan 02 j 00:52	26°♈08'55	1°34'35	
min. Earth dist.	-10899 Jan 02 j 18:55	26°♈07'41	29.27869 AU	
direct	-10899 Mar 24 j 09:45	24°♈44'32		
evening set	-10899 Jun 22 j 10:57	26°♈40'23		
conjunction	-10899 Jul 07 j 18:22	27°♈14'44	1°31'07	
minimum elong	-10899 Jul 07 j 18:21	27°♈14'43	1°31'22	
max. Earth dist.	-10899 Jul 07 j 00:29	27°♈13'02	31.27847 AU	
morning rise	-10899 Jul 22 j 23:15	27°♈48'51		
retrograde	-10899 Oct 17 j 19:43	29°♈41'44		
opposition	-10898 Jan 04 j 13:15	28°♈19'45	1°40'00	
min. Earth dist.	-10898 Jan 05 j 05:47	28°♈18'38	29.27975 AU	
direct	-10898 Mar 26 j 22:20	26°♈55'24		
evening set	-10898 Jun 24 j 20:56	28°♈51'11		
max. Earth dist.	-10898 Jul 09 j 10:34	29°♈23'51	31.27898 AU	
conjunction	-10898 Jul 10 j 03:45	29°♈25'29	1°36'07	
minimum elong	-10898 Jul 10 j 03:44	29°♈25'28	1°36'22	
morning rise	-10898 Jul 25 j 08:07	29°♈59'34		
	-10898 Jul 25 j 12:46	0°♉		
retrograde	-10898 Oct 20 j 06:30	1°♉52'33		
opposition	-10897 Jan 07 j 01:57	0°♉30'30	1°45'17	
min. Earth dist.	-10897 Jan 07 j 18:44	0°♉29'22	29.28009 AU	
	-10897 Jan 26 j 07:32	30°℞♈		
direct	-10897 Mar 29 j 09:27	29°♈06'11		
	-10897 May 27 j 08:12	0°♉		
evening set	-10897 Jun 27 j 06:38	1°♉01'52		
conjunction	-10897 Jul 12 j 12:54	1°♉36'07	1°40'59	
minimum elong	-10897 Jul 12 j 12:54	1°♉36'07	1°41'16	
max. Earth dist.	-10897 Jul 11 j 20:59	1°♉34'37	31.27908 AU	
morning rise	-10897 Jul 27 j 16:47	2°♉10'10		
retrograde	-10897 Oct 22 j 16:39	4°♉03'14		
opposition	-10896 Jan 09 j 14:30	2°♉41'08	1°50'24	
min. Earth dist.	-10896 Jan 10 j 05:44	2°♉40'06	29.28012 AU	
direct	-10896 Mar 30 j 23:28	1°♉16'50		
evening set	-10896 Jun 28 j 16:26	3°♉12'27		
conjunction	-10896 Jul 13 j 22:01	3°♉46'39	1°45'42	
minimum elong	-10896 Jul 13 j 22:00	3°♉46'39	1°45'59	
max. Earth dist.	-10896 Jul 13 j 06:18	3°♉45'10	31.27911 AU	
morning rise	-10896 Jul 29 j 01:31	4°♉20'41		
retrograde	-10896 Oct 24 j 04:08	6°♉13'50		
opposition	-10895 Jan 11 j 02:57	4°♉51'40	1°55'21	
min. Earth dist.	-10895 Jan 11 j 17:35	4°♉50'41	29.28057 AU	
direct	-10895 Apr 02 j 11:14	3°♉27'25		
evening set	-10895 Jul 01 j 02:02	5°♉22'57		
conjunction	-10895 Jul 16 j 07:11	5°♉57'07	1°50'16	
minimum elong	-10895 Jul 16 j 07:10	5°♉57'07	1°50'35	
max. Earth dist.	-10895 Jul 15 j 17:23	5°♉55'49	31.27978 AU	
morning rise	-10895 Jul 31 j 10:05	6°♉31'07		
retrograde	-10895 Oct 26 j 13:19	8°♉24'23		
opposition	-10894 Jan 13 j 15:35	7°♉02'11	2°00'09	
min. Earth dist.	-10894 Jan 14 j 05:07	7°♉01'16	29.28164 AU	
direct	-10894 Apr 05 j 00:20	5°♉37'59		
evening set	-10894 Jul 03 j 11:40	7°♉33'27		

conjunction	-10894 Jul 18 j 16:03	8°♉07'34	1°54'40	
minimum elong	-10894 Jul 18 j 16:02	8°♉07'34	1°54'59	
max. Earth dist.	-10894 Jul 18 j 02:21	8°♉06'17	31.28128 AU	
morning rise	-10894 Aug 02 j 18:40	8°♉41'33		
retrograde	-10894 Oct 28 j 23:53	10°♉34'57		
opposition	-10893 Jan 16 j 04:15	9°♉12'43	2°04'46	
min. Earth dist.	-10893 Jan 16 j 16:19	9°♉11'54	29.28373 AU	
direct	-10893 Apr 07 j 11:05	7°♉48'37		
evening set	-10893 Jul 05 j 21:07	9°♉44'01		
conjunction	-10893 Jul 21 j 01:09	10°♉18'06	1°58'54	
minimum elong	-10893 Jul 21 j 01:08	10°♉18'06	1°59'16	
max. Earth dist.	-10893 Jul 20 j 13:35	10°♉17'01	31.28364 AU	
morning rise	-10893 Aug 05 j 03:12	10°♉52'03		
retrograde	-10893 Oct 31 j 09:03	12°♉45'36		
opposition	-10892 Jan 18 j 16:58	11°♉23'21	2°09'13	
min. Earth dist.	-10892 Jan 19 j 04:41	11°♉22'34	29.28645 AU	
direct	-10892 Apr 08 j 22:34	9°♉59'21		
evening set	-10892 Jul 07 j 06:39	11°♉54'42		
conjunction	-10892 Jul 22 j 10:02	12°♉28'45	2°02'59	
minimum elong	-10892 Jul 22 j 10:01	12°♉28'45	2°03'21	
max. Earth dist.	-10892 Jul 21 j 22:35	12°♉27'40	31.28654 AU	
morning rise	-10892 Aug 06 j 11:52	13°♉02'41		
retrograde	-10892 Nov 01 j 20:59	14°♉56'23		
opposition	-10891 Jan 20 j 05:38	13°♉34'08	2°13'29	
min. Earth dist.	-10891 Jan 20 j 15:30	13°♉33'28	29.28943 AU	
direct	-10891 Apr 11 j 09:03	12°♉10'12		
evening set	-10891 Jul 09 j 16:05	14°♉05'31		
conjunction	-10891 Jul 24 j 19:03	14°♉39'32	2°06'53	
minimum elong	-10891 Jul 24 j 19:02	14°♉39'32	2°07'17	
max. Earth dist.	-10891 Jul 24 j 09:02	14°♉38'35	31.28923 AU	
	-10891 Aug 02 j 20:01	15°♉		
morning rise	-10891 Aug 08 j 20:23	15°♉13'26		
retrograde	-10891 Nov 04 j 07:24	17°♉07'19		
opposition	-10890 Jan 22 j 18:32	15°♉45'03	2°17'33	
min. Earth dist.	-10890 Jan 23 j 04:39	15°♉44'22	29.29197 AU	
	-10890 Feb 21 j 04:34	15°℞♉		
direct	-10890 Apr 13 j 20:04	14°♉21'13		
	-10890 Jun 02 j 05:28	15°♉		
evening set	-10890 Jul 12 j 01:40	16°♉16'28		
conjunction	-10890 Jul 27 j 04:05	16°♉50'27	2°10'36	
minimum elong	-10890 Jul 27 j 04:04	16°♉50'27	2°10'59	
max. Earth dist.	-10890 Jul 26 j 18:38	16°♉49'33	31.29141 AU	
morning rise	-10890 Aug 11 j 05:07	17°♉24'20		
retrograde	-10890 Nov 06 j 19:43	19°♉18'22		
opposition	-10889 Jan 25 j 07:29	17°♉56'05	2°21'26	
min. Earth dist.	-10889 Jan 25 j 15:49	17°♉55'31	29.29370 AU	
direct	-10889 Apr 16 j 07:10	16°♉32'20		
evening set	-10889 Jul 14 j 11:10	18°♉27'31		
conjunction	-10889 Jul 29 j 13:06	19°♉01'28	2°14'07	
minimum elong	-10889 Jul 29 j 13:05	19°♉01'28	2°14'33	
max. Earth dist.	-10889 Jul 29 j 04:15	19°♉00'38	31.29240 AU	
morning rise	-10889 Aug 13 j 13:50	19°♉35'20		
retrograde	-10889 Nov 09 j 07:22	21°♉29'32		
opposition	-10888 Jan 27 j 20:36	20°♉07'11	2°25'06	
min. Earth dist.	-10888 Jan 28 j 05:14	20°♉06'37	29.29418 AU	
direct	-10888 Apr 17 j 17:24	18°♉43'31		
evening set	-10888 Jul 15 j 20:43	20°♉38'37		
conjunction	-10888 Jul 30 j 22:18	21°♉12'33	2°17'28	
minimum elong	-10888 Jul 30 j 22:17	21°♉12'32	2°17'53	

Attention, astronomical year style is used: The year -10888 in astronomical counting style is the year 10889 BCE in historical counting style.

max. Earth dist.	-10888 Jul 30 j 14:34	21°♉11'49	31.29207 AU
morning rise	-10888 Aug 14 j 22:39	21°♉46'23	
retrograde	-10888 Nov 10 j 18:41	23°♉40'42	
opposition	-10887 Jan 29 j 09:26	22°♉18'18	2°28'34
min. Earth dist.	-10887 Jan 29 j 16:43	22°♉17'49	29.29307 AU
direct	-10887 Apr 20 j 07:16	20°♉54'40	
evening set	-10887 Jul 18 j 06:19	22°♉49'42	
conjunction	-10887 Aug 02 j 07:22	23°♉23'36	2°20'36
minimum elong	-10887 Aug 02 j 07:21	23°♉23'36	2°21'04
max. Earth dist.	-10887 Aug 01 j 23:24	23°♉22'51	31.29013 AU
morning rise	-10887 Aug 17 j 07:34	23°♉57'25	
retrograde	-10887 Nov 13 j 07:36	25°♉51'51	
opposition	-10886 Jan 31 j 22:33	24°♉29'23	2°31'49
min. Earth dist.	-10886 Feb 01 j 05:31	24°♉28'55	29.29055 AU
direct	-10886 Apr 22 j 18:55	23°♉05'46	
evening set	-10886 Jul 20 j 15:33	25°♉00'42	
conjunction	-10886 Aug 04 j 16:23	25°♉34'34	2°23'33
minimum elong	-10886 Aug 04 j 16:22	25°♉34'34	2°24'00
max. Earth dist.	-10886 Aug 04 j 10:10	25°♉33'59	31.28686 AU
morning rise	-10886 Aug 19 j 16:12	26°♉08'23	
retrograde	-10886 Nov 15 j 17:06	28°♉02'55	
opposition	-10885 Feb 03 j 11:42	26°♉40'22	2°34'51
min. Earth dist.	-10885 Feb 03 j 17:47	26°♉39'57	29.28670 AU
direct	-10885 Apr 25 j 08:11	25°♉16'46	
evening set	-10885 Jul 23 j 00:58	27°♉11'35	
conjunction	-10885 Aug 07 j 01:17	27°♉45'25	2°26'17
minimum elong	-10885 Aug 07 j 01:16	27°♉45'25	2°26'46
max. Earth dist.	-10885 Aug 06 j 18:56	27°♉44'49	31.28260 AU
morning rise	-10885 Aug 22 j 01:05	28°♉19'13	
	-10885 Oct 20 j 06:31	0°♊	
retrograde	-10885 Nov 18 j 04:19	0°♊13'51	
	-10885 Dec 17 j 18:40	30°℞♉	
opposition	-10884 Feb 06 j 00:38	28°♉51'11	2°37'40
min. Earth dist.	-10884 Feb 06 j 05:34	28°♉50'52	29.28228 AU
direct	-10884 Apr 26 j 19:49	27°♉27'36	
evening set	-10884 Jul 24 j 10:04	29°♉22'18	
conjunction	-10884 Aug 08 j 10:14	29°♉56'07	2°28'48
minimum elong	-10884 Aug 08 j 10:13	29°♉56'07	2°29'18
max. Earth dist.	-10884 Aug 08 j 05:53	29°♉55'42	31.27788 AU
	-10884 Aug 10 j 03:14	0°♊	
morning rise	-10884 Aug 23 j 09:43	0°♊29'54	
retrograde	-10884 Nov 19 j 13:39	2°♊24'39	
opposition	-10883 Feb 07 j 13:42	1°♊01'53	2°40'15
min. Earth dist.	-10883 Feb 07 j 18:12	1°♊01'35	29.27762 AU
	-10883 Mar 22 j 15:13	30°℞♉	
direct	-10883 Apr 29 j 08:30	29°♉38'19	
	-10883 Jun 04 j 18:07	0°♊	
evening set	-10883 Jul 26 j 19:13	1°♊32'54	
conjunction	-10883 Aug 10 j 18:57	2°♊06'41	2°31'07
minimum elong	-10883 Aug 10 j 18:56	2°♊06'41	2°31'38
max. Earth dist.	-10883 Aug 10 j 14:59	2°♊06'19	31.27339 AU
morning rise	-10883 Aug 25 j 18:23	2°♊40'28	
retrograde	-10883 Nov 22 j 01:12	4°♊35'20	
opposition	-10882 Feb 10 j 02:38	3°♊12'29	2°42'37
min. Earth dist.	-10882 Feb 10 j 04:58	3°♊12'20	29.27349 AU
direct	-10882 May 01 j 19:41	1°♊48'56	
evening set	-10882 Jul 29 j 04:18	3°♊43'26	
conjunction	-10882 Aug 13 j 03:50	4°♊17'12	2°33'13
minimum elong	-10882 Aug 13 j 03:49	4°♊17'12	2°33'43
max. Earth dist.	-10882 Aug 13 j 01:30	4°♊16'59	31.26954 AU
morning rise	-10882 Aug 28 j 03:04	4°♊50'59	
retrograde	-10882 Nov 24 j 11:18	6°♊45'59	
opposition	-10881 Feb 12 j 15:47	5°♊23'04	2°44'44
min. Earth dist.	-10881 Feb 12 j 17:49	5°♊22'56	29.27022 AU
direct	-10881 May 04 j 06:28	3°♊59'34	
evening set	-10881 Jul 31 j 13:18	5°♊53'59	
conjunction	-10881 Aug 15 j 12:37	6°♊27'44	2°35'05
minimum elong	-10881 Aug 15 j 12:36	6°♊27'44	2°35'37
max. Earth dist.	-10881 Aug 15 j 11:26	6°♊27'37	31.26675 AU
morning rise	-10881 Aug 30 j 11:48	7°♊01'30	
retrograde	-10881 Nov 26 j 23:12	8°♊56'40	
opposition	-10880 Feb 15 j 04:44	7°♊33'42	2°46'37
min. Earth dist.	-10880 Feb 15 j 04:32	7°♊33'43	29.26779 AU
direct	-10880 May 05 j 17:04	6°♊10'16	
evening set	-10880 Aug 01 j 22:24	8°♊04'37	
conjunction	-10880 Aug 16 j 21:28	8°♊38'22	2°36'44
minimum elong	-10880 Aug 16 j 21:28	8°♊38'22	2°37'16
max. Earth dist.	-10880 Aug 16 j 21:09	8°♊38'20	31.26456 AU
morning rise	-10880 Aug 31 j 20:40	9°♊12'09	
retrograde	-10880 Nov 28 j 11:09	11°♊07'28	
opposition	-10879 Feb 16 j 17:44	9°♊44'28	2°48'16
min. Earth dist.	-10879 Feb 16 j 17:25	9°♊44'29	29.26596 AU
direct	-10879 May 08 j 02:31	8°♊21'07	
evening set	-10879 Aug 04 j 07:24	10°♊15'25	
conjunction	-10879 Aug 19 j 06:25	10°♊49'09	2°38'10
minimum elong	-10879 Aug 19 j 06:25	10°♊49'09	2°38'44
max. Earth dist.	-10879 Aug 19 j 07:50	10°♊49'17	31.26285 AU
morning rise	-10879 Sep 03 j 05:30	11°♊22'56	
retrograde	-10879 Nov 30 j 23:15	13°♊18'25	
opposition	-10878 Feb 19 j 06:48	11°♊55'24	2°49'40
min. Earth dist.	-10878 Feb 19 j 04:42	11°♊55'33	29.26419 AU
direct	-10878 May 10 j 15:12	10°♊32'08	
evening set	-10878 Aug 06 j 16:27	12°♊26'24	
conjunction	-10878 Aug 21 j 15:11	13°♊00'08	2°39'22
minimum elong	-10878 Aug 21 j 15:11	13°♊00'08	2°39'55
max. Earth dist.	-10878 Aug 21 j 16:41	13°♊00'16	31.26094 AU
morning rise	-10878 Sep 05 j 14:26	13°♊33'55	
retrograde	-10878 Dec 03 j 13:14	15°♊29'35	
opposition	-10877 Feb 21 j 20:03	14°♊06'32	2°50'50
min. Earth dist.	-10877 Feb 21 j 17:26	14°♊06'42	29.26216 AU
direct	-10877 May 13 j 01:42	12°♊43'20	
evening set	-10877 Aug 09 j 01:33	14°♊37'32	
conjunction	-10877 Aug 24 j 00:22	15°♊11'17	2°40'20
minimum elong	-10877 Aug 24 j 00:22	15°♊11'17	2°40'54
max. Earth dist.	-10877 Aug 24 j 03:43	15°♊11'36	31.25845 AU
morning rise	-10877 Sep 07 j 23:30	15°♊45'05	
retrograde	-10877 Dec 05 j 23:47	17°♊40'54	
opposition	-10876 Feb 24 j 09:06	16°♊17'49	2°51'45
min. Earth dist.	-10876 Feb 24 j 05:40	16°♊18'02	29.25918 AU
direct	-10876 May 14 j 13:54	14°♊54'41	
evening set	-10876 Aug 10 j 10:48	16°♊48'50	
conjunction	-10876 Aug 25 j 09:25	17°♊22'34	2°41'04
minimum elong	-10876 Aug 25 j 09:24	17°♊22'34	2°41'38
max. Earth dist.	-10876 Aug 25 j 12:28	17°♊22'51	31.25493 AU
morning rise	-10876 Sep 09 j 08:48	17°♊56'23	
retrograde	-10876 Dec 07 j 12:25	19°♊52'21	
opposition	-10875 Feb 25 j 22:17	18°♊29'13	2°52'25
min. Earth dist.	-10875 Feb 25 j 17:51	18°♊29'31	29.25509 AU
direct	-10875 May 17 j 01:27	17°♊06'09	
evening set	-10875 Aug 12 j 19:51	19°♊00'12	
conjunction	-10875 Aug 27 j 18:34	19°♊33'57	2°41'34

Attention, astronomical year style is used: The year -10875 in astronomical counting style is the year 10876 BCE in historical counting style.

minimum elong	-10875 Aug 27 j 18:34	19♊33'57	2°42'10
max. Earth dist.	-10875 Aug 27 j 23:16	19♊34'24	31.25004 AU
morning rise	-10875 Sep 11 j 17:56	20♊07'47	
retrograde	-10875 Dec 09 j 23:05	22♊03'53	
opposition	-10874 Feb 28 j 11:36	20♊40'41	2°52'50
min. Earth dist.	-10874 Feb 28 j 07:03	20♊40'59	29.24952 AU
direct	-10874 May 19 j 14:17	19♊17'39	
evening set	-10874 Aug 15 j 05:04	21♊11'37	
conjunction	-10874 Aug 30 j 03:44	21♊45'22	2°41'51
minimum elong	-10874 Aug 30 j 03:44	21♊45'22	2°42'26
max. Earth dist.	-10874 Aug 30 j 08:29	21♊45'49	31.24394 AU
morning rise	-10874 Sep 14 j 03:22	22♊19'13	
retrograde	-10874 Dec 12 j 11:17	24♊15'25	
opposition	-10873 Mar 03 j 00:46	22♊52'08	2°53'00
min. Earth dist.	-10873 Mar 02 j 18:30	22♊52'34	29.24283 AU
direct	-10873 May 22 j 01:40	21♊29'07	
evening set	-10873 Aug 17 j 14:05	23♊22'58	
conjunction	-10873 Sep 01 j 12:53	23♊56'44	2°41'54
minimum elong	-10873 Sep 01 j 12:53	23♊56'44	2°42'30
max. Earth dist.	-10873 Sep 01 j 18:42	23♊57'17	31.23667 AU
morning rise	-10873 Sep 16 j 12:44	24♊30'36	
retrograde	-10873 Dec 14 j 21:01	26♊26'55	
opposition	-10872 Mar 04 j 14:01	25♊03'32	2°52'56
min. Earth dist.	-10872 Mar 04 j 07:56	25♊03'56	29.23519 AU
direct	-10872 May 23 j 12:51	23♊40'31	
evening set	-10872 Aug 18 j 23:07	25♊34'15	
conjunction	-10872 Sep 02 j 22:02	26♊08'00	2°41'43
minimum elong	-10872 Sep 02 j 22:02	26♊08'00	2°42'18
max. Earth dist.	-10872 Sep 03 j 04:53	26♊08'40	31.22884 AU
morning rise	-10872 Sep 17 j 22:05	26♊41'54	
retrograde	-10872 Dec 16 j 08:22	28♊38'19	
opposition	-10871 Mar 07 j 02:55	27♊14'49	2°52'37
min. Earth dist.	-10871 Mar 06 j 18:50	27♊15'22	29.22722 AU
direct	-10871 May 25 j 23:43	25♊51'47	
evening set	-10871 Aug 21 j 08:08	27♊45'25	
conjunction	-10871 Sep 05 j 07:05	28♊19'11	2°41'17
minimum elong	-10871 Sep 05 j 07:06	28♊19'11	2°41'54
max. Earth dist.	-10871 Sep 05 j 14:36	28♊19'54	31.22094 AU
morning rise	-10871 Sep 20 j 07:30	28♊53'06	
	-10871 Oct 23 j 20:36	0♋	
retrograde	-10871 Dec 18 j 20:14	0♋49'37	
	-10870 Feb 16 j 01:11	30℞♊	
opposition	-10870 Mar 09 j 16:07	29♊26'01	2°52'03
min. Earth dist.	-10870 Mar 09 j 07:52	29♊26'34	29.21967 AU
direct	-10870 May 28 j 09:29	28♊02'59	
evening set	-10870 Aug 23 j 16:56	29♊56'30	
	-10870 Aug 25 j 06:44	0♋	
conjunction	-10870 Sep 07 j 16:12	0♋30'17	2°40'39
minimum elong	-10870 Sep 07 j 16:12	0♋30'17	2°41'14
max. Earth dist.	-10870 Sep 08 j 01:42	0♋31'11	31.21378 AU
morning rise	-10870 Sep 22 j 16:47	1♋04'13	
retrograde	-10870 Dec 21 j 08:08	3♋00'50	
opposition	-10869 Mar 12 j 05:08	1♋37'09	2°51'14
min. Earth dist.	-10869 Mar 11 j 18:54	1♋37'50	29.21291 AU
direct	-10869 May 30 j 21:40	0♋14'08	
evening set	-10869 Aug 26 j 02:00	2♋07'34	
conjunction	-10869 Sep 10 j 01:20	2♋41'21	2°39'46
minimum elong	-10869 Sep 10 j 01:20	2♋41'22	2°40'22
max. Earth dist.	-10869 Sep 10 j 10:59	2♋42'16	31.20757 AU
morning rise	-10869 Sep 25 j 02:26	3♋15'19	
retrograde	-10869 Dec 23 j 21:58	5♋12'03	

opposition	-10868 Mar 13 j 18:03	3♋48'18	2°50'10
min. Earth dist.	-10868 Mar 13 j 07:06	3♋49'02	29.20730 AU
direct	-10868 Jun 01 j 06:57	2♋25'18	
evening set	-10868 Aug 27 j 10:53	4♋18'40	
conjunction	-10868 Sep 11 j 10:38	4♋52'29	2°38'39
minimum elong	-10868 Sep 11 j 10:39	4♋52'29	2°39'15
max. Earth dist.	-10868 Sep 11 j 22:26	4♋53'36	31.20242 AU
morning rise	-10868 Sep 26 j 11:58	5♋26'29	
retrograde	-10868 Dec 25 j 08:57	7♋23'20	
opposition	-10867 Mar 16 j 07:03	5♋59'31	2°48'51
min. Earth dist.	-10867 Mar 15 j 18:51	6♋00'21	29.20247 AU
direct	-10867 Jun 03 j 18:45	4♋36'36	
evening set	-10867 Aug 29 j 19:51	6♋29'52	
conjunction	-10867 Sep 13 j 19:43	7♋03'43	2°37'18
minimum elong	-10867 Sep 13 j 19:44	7♋03'43	2°37'55
max. Earth dist.	-10867 Sep 14 j 07:41	7♋04'51	31.19805 AU
morning rise	-10867 Sep 28 j 21:36	7♋37'45	
retrograde	-10867 Dec 27 j 22:55	9♋34'44	
opposition	-10866 Mar 18 j 20:08	8♋10'53	2°47'17
min. Earth dist.	-10866 Mar 18 j 06:40	8♋11'47	29.19835 AU
direct	-10866 Jun 06 j 05:50	6♋48'01	
evening set	-10866 Sep 01 j 04:53	8♋41'14	
conjunction	-10866 Sep 16 j 05:10	9♋15'06	2°35'43
minimum elong	-10866 Sep 16 j 05:11	9♋15'06	2°36'19
max. Earth dist.	-10866 Sep 16 j 18:58	9♋16'25	31.19402 AU
morning rise	-10866 Oct 01 j 07:24	9♋49'11	
retrograde	-10866 Dec 30 j 10:47	11♋46'17	
opposition	-10865 Mar 21 j 09:13	10♋22'24	2°45'29
min. Earth dist.	-10865 Mar 20 j 19:32	10♋23'19	29.19428 AU
direct	-10865 Jun 08 j 17:55	8♋59'36	
evening set	-10865 Sep 03 j 14:03	10♋52'45	
conjunction	-10865 Sep 18 j 14:39	11♋26'39	2°33'55
minimum elong	-10865 Sep 18 j 14:39	11♋26'40	2°34'32
max. Earth dist.	-10865 Sep 19 j 04:42	11♋27'59	31.18994 AU
morning rise	-10865 Oct 03 j 17:26	12♋00'47	
retrograde	-10864 Jan 01 j 23:47	13♋58'00	
opposition	-10864 Mar 22 j 22:14	12♋34'06	2°43'25
min. Earth dist.	-10864 Mar 22 j 06:59	12♋35'08	29.18986 AU
direct	-10864 Jun 10 j 04:54	11♋11'21	
evening set	-10864 Sep 04 j 23:20	13♋04'27	
conjunction	-10864 Sep 20 j 00:17	13♋38'23	2°31'53
minimum elong	-10864 Sep 20 j 00:17	13♋38'23	2°32'28
max. Earth dist.	-10864 Sep 20 j 15:06	13♋39'47	31.18502 AU
morning rise	-10864 Oct 05 j 03:32	14♋12'33	
retrograde	-10863 Jan 03 j 10:31	16♋09'54	
opposition	-10863 Mar 25 j 11:18	14♋45'57	2°41'08
min. Earth dist.	-10863 Mar 24 j 20:27	14♋46'57	29.18445 AU
direct	-10863 Jun 12 j 15:53	13♋23'15	
evening set	-10863 Sep 07 j 08:40	15♋16'17	
conjunction	-10863 Sep 22 j 10:05	15♋50'15	2°29'38
minimum elong	-10863 Sep 22 j 10:05	15♋50'15	2°30'14
max. Earth dist.	-10863 Sep 23 j 01:42	15♋51'44	31.17918 AU
morning rise	-10863 Oct 07 j 13:48	16♋24'28	
retrograde	-10862 Jan 05 j 22:59	18♋21'55	
min. Earth dist.	-10862 Mar 27 j 07:54	16♋59'03	29.17787 AU
opposition	-10862 Mar 28 j 00:20	16♋57'56	2°38'36
direct	-10862 Jun 15 j 02:59	15♋35'16	
evening set	-10862 Sep 09 j 18:04	17♋28'13	
conjunction	-10862 Sep 24 j 19:50	18♋02'13	2°27'09
minimum elong	-10862 Sep 24 j 19:50	18♋02'13	2°27'44

Attention, astronomical year style is used: The year -10862 in astronomical counting style is the year 10863 BCE in historical counting style.

max. Earth dist.	-10862 Sep 25 j 11:27	18°♓03'42	31.17195 AU	
morning rise	-10862 Oct 10 j 00:15	18°♓36'29		
retrograde	-10861 Jan 08 j 11:16	20°♓34'03		
opposition	-10861 Mar 30 j 13:32	19°♓09'59	2°35'51	
min. Earth dist.	-10861 Mar 29 j 21:35	19°♓11'04	29.16997 AU	
direct	-10861 Jun 17 j 12:46	17°♓47'19		
evening set	-10861 Sep 12 j 03:27	19°♓40'11		
conjunction	-10861 Sep 27 j 05:51	20°♓14'14	2°24'28	
minimum elong	-10861 Sep 27 j 05:52	20°♓14'14	2°25'04	
max. Earth dist.	-10861 Sep 27 j 22:50	20°♓15'50	31.16350 AU	
morning rise	-10861 Oct 12 j 10:44	20°♓48'32		
retrograde	-10860 Jan 10 j 23:12	22°♓46'10		
min. Earth dist.	-10860 Mar 31 j 09:07	21°♓23'12	29.16082 AU	
opposition	-10860 Apr 01 j 02:18	21°♓22'02	2°32'52	
direct	-10860 Jun 19 j 00:35	19°♓59'22		
evening set	-10860 Sep 13 j 12:57	21°♓52'09		
conjunction	-10860 Sep 28 j 15:42	22°♓26'14	2°21'35	
minimum elong	-10860 Sep 28 j 15:43	22°♓26'14	2°22'09	
max. Earth dist.	-10860 Sep 29 j 08:13	22°♓27'48	31.15402 AU	
morning rise	-10860 Oct 13 j 21:23	23°♓00'35		
retrograde	-10859 Jan 12 j 12:59	24°♓58'18		
opposition	-10859 Apr 03 j 15:17	23°♓34'04	2°29'40	
min. Earth dist.	-10859 Apr 02 j 21:56	23°♓35'14	29.15105 AU	
direct	-10859 Jun 21 j 09:48	22°♓11'22		
evening set	-10859 Sep 15 j 22:08	24°♓04'04		
conjunction	-10859 Oct 01 j 01:34	24°♓38'11	2°18'29	
minimum elong	-10859 Oct 01 j 01:34	24°♓38'11	2°19'04	
max. Earth dist.	-10859 Oct 01 j 19:57	24°♓39'56	31.14415 AU	
morning rise	-10859 Oct 16 j 07:43	25°♓12'36		
retrograde	-10858 Jan 15 j 00:21	27°♓10'22		
min. Earth dist.	-10858 Apr 05 j 09:52	25°♓47'17	29.14112 AU	
opposition	-10858 Apr 06 j 04:10	25°♓46'02	2°26'15	
direct	-10858 Jun 23 j 21:39	24°♓23'21		
evening set	-10858 Sep 18 j 07:38	26°♓15'57		
conjunction	-10858 Oct 03 j 11:29	26°♓50'07	2°15'11	
minimum elong	-10858 Oct 03 j 11:30	26°♓50'07	2°15'44	
max. Earth dist.	-10858 Oct 04 j 05:50	26°♓51'51	31.13459 AU	
morning rise	-10858 Oct 18 j 18:27	27°♓24'34		
retrograde	-10857 Jan 17 j 14:59	29°♓22'24		
opposition	-10857 Apr 08 j 16:55	27°♓57'59	2°22'37	
min. Earth dist.	-10857 Apr 07 j 21:35	27°♓59'18	29.13190 AU	
direct	-10857 Jun 26 j 08:43	26°♓35'17		
evening set	-10857 Sep 20 j 17:03	28°♓27'49		
conjunction	-10857 Oct 05 j 21:35	29°♓02'02	2°11'41	
minimum elong	-10857 Oct 05 j 21:36	29°♓02'02	2°12'15	
max. Earth dist.	-10857 Oct 06 j 17:35	29°♓03'56	31.12574 AU	
morning rise	-10857 Oct 21 j 05:08	29°♓36'33		
	-10857 Nov 01 j 01:38	0°♌		
retrograde	-10856 Jan 20 j 03:16	1°♌34'28		
min. Earth dist.	-10856 Apr 09 j 10:04	0°♌11'19	29.12347 AU	
opposition	-10856 Apr 10 j 05:41	0°♌09'58	2°18'47	
	-10856 Apr 16 j 08:18	30°℞♓		
direct	-10856 Jun 27 j 20:38	28°♓47'17		
	-10856 Sep 03 j 05:09	0°♌		
evening set	-10856 Sep 22 j 02:31	0°♌39'45		
conjunction	-10856 Oct 07 j 07:36	1°♌14'01	2°08'00	
minimum elong	-10856 Oct 07 j 07:37	1°♌14'01	2°08'32	
max. Earth dist.	-10856 Oct 08 j 04:03	1°♌15'57	31.11796 AU	
morning rise	-10856 Oct 22 j 15:53	1°♌48'35		
retrograde	-10855 Jan 21 j 16:28	3°♌46'35		
opposition	-10855 Apr 12 j 18:18	2°♌22'03	2°14'44	
min. Earth dist.	-10855 Apr 11 j 20:58	2°♌23'30	29.11611 AU	
direct	-10855 Jun 30 j 07:30	0°♌59'23		
evening set	-10855 Sep 24 j 12:05	2°♌51'48		
conjunction	-10855 Oct 09 j 17:46	3°♌26'07	2°04'07	
minimum elong	-10855 Oct 09 j 17:47	3°♌26'07	2°04'40	
max. Earth dist.	-10855 Oct 10 j 15:05	3°♌28'08	31.11109 AU	
morning rise	-10855 Oct 25 j 02:47	4°♌00'45		
retrograde	-10854 Jan 24 j 03:58	5°♌58'50		
min. Earth dist.	-10854 Apr 14 j 09:58	4°♌35'42	29.10960 AU	
opposition	-10854 Apr 15 j 07:05	4°♌34'16	2°10'28	
direct	-10854 Jul 02 j 18:37	3°♌11'38		
evening set	-10854 Sep 26 j 21:37	5°♌04'00		
conjunction	-10854 Oct 12 j 04:03	5°♌38'23	2°00'03	
minimum elong	-10854 Oct 12 j 04:04	5°♌38'23	2°00'33	
max. Earth dist.	-10854 Oct 13 j 02:29	5°♌40'30	31.10505 AU	
morning rise	-10854 Oct 27 j 13:46	6°♌13'04		
retrograde	-10853 Jan 26 j 17:28	8°♌11'14		
opposition	-10853 Apr 17 j 19:43	6°♌46'39	2°06'01	
min. Earth dist.	-10853 Apr 16 j 20:57	6°♌48'12	29.10358 AU	
direct	-10853 Jul 05 j 05:58	5°♌24'04		
evening set	-10853 Sep 29 j 07:32	7°♌16'24		
conjunction	-10853 Oct 14 j 14:29	7°♌50'50	1°55'47	
minimum elong	-10853 Oct 14 j 14:30	7°♌50'50	1°56'18	
max. Earth dist.	-10853 Oct 15 j 12:52	7°♌52'57	31.09911 AU	
morning rise	-10853 Oct 30 j 01:04	8°♌25'35		
retrograde	-10852 Jan 29 j 05:14	10°♌23'50		
min. Earth dist.	-10852 Apr 18 j 10:13	9°♌00'45	29.09757 AU	
opposition	-10852 Apr 19 j 08:19	8°♌59'14	2°01'23	
direct	-10852 Jul 06 j 15:22	7°♌36'41		
evening set	-10852 Sep 30 j 17:25	9°♌28'59		
conjunction	-10852 Oct 16 j 01:10	10°♌03'28	1°51'22	
minimum elong	-10852 Oct 16 j 01:11	10°♌03'28	1°51'51	
max. Earth dist.	-10852 Oct 17 j 00:54	10°♌05'42	31.09300 AU	
morning rise	-10852 Oct 31 j 12:20	10°♌38'17		
retrograde	-10851 Jan 30 j 16:59	12°♌36'36		
opposition	-10851 Apr 21 j 20:56	11°♌11'59	1°56'33	
min. Earth dist.	-10851 Apr 20 j 21:44	11°♌13'34	29.09099 AU	
direct	-10851 Jul 09 j 02:35	9°♌49'28		
evening set	-10851 Oct 03 j 03:27	11°♌41'44		
conjunction	-10851 Oct 18 j 11:44	12°♌16'15	1°46'46	
minimum elong	-10851 Oct 18 j 11:45	12°♌16'15	1°47'15	
max. Earth dist.	-10851 Oct 19 j 10:43	12°♌18'26	31.08610 AU	
morning rise	-10851 Nov 02 j 23:50	12°♌51'08		
retrograde	-10850 Feb 02 j 06:45	14°♌49'33		
min. Earth dist.	-10850 Apr 23 j 10:48	13°♌26'27	29.08356 AU	
opposition	-10850 Apr 24 j 09:43	13°♌24'52	1°51'33	
direct	-10850 Jul 11 j 11:13	12°♌02'21		
evening set	-10850 Oct 05 j 13:39	13°♌54'35		
conjunction	-10850 Oct 20 j 22:47	14°♌29'10	1°42'00	
minimum elong	-10850 Oct 20 j 22:48	14°♌29'10	1°42'28	
max. Earth dist.	-10850 Oct 21 j 22:59	14°♌31'27	31.07808 AU	
	-10850 Nov 03 j 15:09	15°♌		
morning rise	-10850 Nov 05 j 11:30	15°♌04'06		
retrograde	-10849 Feb 04 j 18:53	17°♌02'33		
opposition	-10849 Apr 26 j 22:15	15°♌37'50	1°46'23	
min. Earth dist.	-10849 Apr 25 j 23:04	15°♌39'25	29.07476 AU	
	-10849 May 20 j 18:35	15°℞♌		
direct	-10849 Jul 13 j 23:00	14°♌15'17		
	-10849 Sep 03 j 17:57	15°♌		
evening set	-10849 Oct 08 j 00:01	16°♌07'28		

Attention, astronomical year style is used: The year -10849 in astronomical counting style is the year 10850 BCE in historical counting style.

conjunction	-10849 Oct 23 j 09:46	16°♌42'06	1°37'06
minimum elong	-10849 Oct 23 j 09:47	16°♌42'06	1°37'34
max. Earth dist.	-10849 Oct 24 j 09:09	16°♌44'18	31.06879 AU
morning rise	-10849 Nov 07 j 23:25	17°♌17'06	
retrograde	-10848 Feb 07 j 09:43	19°♌15'35	
min. Earth dist.	-10848 Apr 27 j 11:23	17°♌52'24	29.06477 AU
opposition	-10848 Apr 28 j 10:50	17°♌50'47	1°41'03
direct	-10848 Jul 15 j 09:42	16°♌28'12	
evening set	-10848 Oct 09 j 10:16	18°♌20'19	
conjunction	-10848 Oct 24 j 20:47	18°♌55'00	1°32'03
minimum elong	-10848 Oct 24 j 20:48	18°♌55'01	1°32'29
max. Earth dist.	-10848 Oct 25 j 21:06	18°♌57'18	31.05822 AU
morning rise	-10848 Nov 09 j 11:06	19°♌30'03	
retrograde	-10847 Feb 08 j 21:40	21°♌28'34	
opposition	-10847 Apr 30 j 23:21	20°♌03'40	1°35'35
min. Earth dist.	-10847 Apr 30 j 00:16	20°♌05'15	29.05368 AU
direct	-10847 Jul 17 j 21:23	18°♌41'02	
evening set	-10847 Oct 11 j 20:36	20°♌33'05	
conjunction	-10847 Oct 27 j 07:50	21°♌07'50	1°26'52
minimum elong	-10847 Oct 27 j 07:51	21°♌07'50	1°27'18
max. Earth dist.	-10847 Oct 28 j 08:05	21°♌10'07	31.04711 AU
morning rise	-10847 Nov 11 j 22:59	21°♌42'56	
retrograde	-10846 Feb 11 j 11:41	23°♌41'26	
min. Earth dist.	-10846 May 02 j 11:30	22°♌18'07	29.04240 AU
opposition	-10846 May 03 j 11:39	22°♌16'27	1°29'59
direct	-10846 Jul 20 j 08:47	20°♌53'45	
evening set	-10846 Oct 14 j 06:58	22°♌45'45	
conjunction	-10846 Oct 29 j 18:54	23°♌20'32	1°21'33
minimum elong	-10846 Oct 29 j 18:55	23°♌20'33	1°21'57
max. Earth dist.	-10846 Oct 30 j 19:33	23°♌22'52	31.03588 AU
morning rise	-10846 Nov 14 j 10:53	23°♌55'43	
retrograde	-10845 Feb 14 j 00:01	25°♌54'13	
opposition	-10845 May 05 j 23:59	24°♌29'08	1°24'14
min. Earth dist.	-10845 May 05 j 00:26	24°♌30'46	29.03136 AU
direct	-10845 Jul 22 j 20:29	23°♌06'24	
evening set	-10845 Oct 16 j 17:27	24°♌58'21	
conjunction	-10845 Nov 01 j 06:11	25°♌33'11	1°16'08
minimum elong	-10845 Nov 01 j 06:12	25°♌33'11	1°16'31
max. Earth dist.	-10845 Nov 02 j 07:41	25°♌35'36	31.02532 AU
morning rise	-10845 Nov 16 j 22:50	26°♌08'24	
retrograde	-10844 Feb 16 j 13:35	28°♌06'56	
min. Earth dist.	-10844 May 06 j 10:57	26°♌43'31	29.02119 AU
opposition	-10844 May 07 j 11:57	26°♌41'47	1°18'22
direct	-10844 Jul 24 j 08:24	25°♌19'00	
evening set	-10844 Oct 18 j 04:03	27°♌10'56	
conjunction	-10844 Nov 02 j 17:22	27°♌45'49	1°10'35
minimum elong	-10844 Nov 02 j 17:22	27°♌45'49	1°10'56
max. Earth dist.	-10844 Nov 03 j 18:42	27°♌48'13	31.01573 AU
morning rise	-10844 Nov 18 j 10:54	28°♌21'06	
	-10843 Jan 13 j 22:29	0°♍	
retrograde	-10843 Feb 18 j 01:07	0°♍19'39	
	-10843 Mar 25 j 19:15	30°℞♌	
min. Earth dist.	-10843 May 08 j 23:41	28°♌56'09	29.01224 AU
opposition	-10843 May 10 j 00:10	28°♌54'27	1°12'23
direct	-10843 Jul 26 j 18:01	27°♌31'40	
evening set	-10843 Oct 20 j 14:27	29°♌23'34	
conjunction	-10843 Nov 05 j 04:40	29°♌58'31	1°04'56
minimum elong	-10843 Nov 05 j 04:41	29°♌58'31	1°05'17
	-10843 Nov 05 j 20:27	0°♍	
max. Earth dist.	-10843 Nov 06 j 07:31	0°♍01'03	31.00750 AU
morning rise	-10843 Nov 20 j 22:50	0°♍33'51	
retrograde	-10842 Feb 20 j 12:53	2°♍32'26	
min. Earth dist.	-10842 May 11 j 10:33	1°♍09'00	29.00447 AU
opposition	-10842 May 12 j 12:13	1°♍07'13	1°06'17
	-10842 Jun 28 j 13:42	30°℞♌	
direct	-10842 Jul 29 j 05:15	29°♌44'26	
	-10842 Aug 28 j 03:49	0°♍	
evening set	-10842 Oct 23 j 01:19	1°♍36'21	
conjunction	-10842 Nov 07 j 16:06	2°♍11'21	0°59'11
minimum elong	-10842 Nov 07 j 16:06	2°♍11'21	0°59'30
max. Earth dist.	-10842 Nov 08 j 18:15	2°♍13'48	31.00039 AU
morning rise	-10842 Nov 23 j 11:12	2°♍46'44	
retrograde	-10841 Feb 23 j 02:25	4°♍45'23	
min. Earth dist.	-10841 May 13 j 22:49	3°♍21'55	28.99785 AU
opposition	-10841 May 15 j 00:13	3°♍20'09	1°00'05
direct	-10841 Jul 31 j 13:31	1°♍57'22	
evening set	-10841 Oct 25 j 12:10	3°♍49'18	
conjunction	-10841 Nov 10 j 03:49	4°♍24'22	0°53'20
minimum elong	-10841 Nov 10 j 03:50	4°♍24'22	0°53'39
max. Earth dist.	-10841 Nov 11 j 07:18	4°♍26'57	30.99416 AU
morning rise	-10841 Nov 25 j 23:30	4°♍59'49	
retrograde	-10840 Feb 25 j 14:22	6°♍58'30	
min. Earth dist.	-10840 May 15 j 10:28	5°♍35'04	28.99178 AU
opposition	-10840 May 16 j 12:12	5°♍33'17	0°53'47
direct	-10840 Aug 02 j 00:40	4°♍10'31	
evening set	-10840 Oct 26 j 23:11	6°♍02'29	
conjunction	-10840 Nov 11 j 15:24	6°♍37'36	0°47'24
minimum elong	-10840 Nov 11 j 15:25	6°♍37'36	0°47'40
max. Earth dist.	-10840 Nov 12 j 18:10	6°♍40'06	30.98838 AU
morning rise	-10840 Nov 27 j 11:55	7°♍13'06	
retrograde	-10839 Feb 27 j 05:00	9°♍11'51	
min. Earth dist.	-10839 May 17 j 22:18	7°♍48'26	28.98603 AU
opposition	-10839 May 19 j 00:12	7°♍46'38	0°47'23
direct	-10839 Aug 04 j 10:35	6°♍23'53	
evening set	-10839 Oct 29 j 10:25	8°♍15'53	
conjunction	-10839 Nov 14 j 03:23	8°♍51'03	0°41'23
minimum elong	-10839 Nov 14 j 03:24	8°♍51'03	0°41'40
max. Earth dist.	-10839 Nov 15 j 06:54	8°♍53'38	30.98249 AU
morning rise	-10839 Nov 30 j 00:31	9°♍26'37	
retrograde	-10838 Mar 01 j 17:18	11°♍25'24	
min. Earth dist.	-10838 May 20 j 11:01	10°♍01'56	28.97989 AU
opposition	-10838 May 21 j 12:10	10°♍00'12	0°40'55
direct	-10838 Aug 06 j 21:11	8°♍37'27	
evening set	-10838 Oct 31 j 21:51	10°♍29'29	
conjunction	-10838 Nov 16 j 15:32	11°♍04'42	0°35'19
minimum elong	-10838 Nov 16 j 15:32	11°♍04'42	0°35'33
max. Earth dist.	-10838 Nov 17 j 18:26	11°♍07'14	30.97615 AU
morning rise	-10838 Dec 02 j 13:24	11°♍40'19	
retrograde	-10837 Mar 04 j 08:24	13°♍39'08	
min. Earth dist.	-10837 May 22 j 22:27	12°♍15'42	28.97304 AU
opposition	-10837 May 24 j 00:06	12°♍13'55	0°34'24
direct	-10837 Aug 09 j 08:26	10°♍51'08	
evening set	-10837 Nov 03 j 09:31	12°♍43'12	
conjunction	-10837 Nov 19 j 03:48	13°♍18'29	0°29'11
minimum elong	-10837 Nov 19 j 03:48	13°♍18'29	0°29'24
max. Earth dist.	-10837 Nov 20 j 06:20	13°♍20'58	30.96871 AU
morning rise	-10837 Dec 05 j 02:21	13°♍54'09	
retrograde	-10836 Mar 05 j 21:51	15°♍52'58	
min. Earth dist.	-10836 May 24 j 11:37	14°♍29'25	28.96508 AU
opposition	-10836 May 25 j 12:00	14°♍27'43	0°27'49
direct	-10836 Aug 10 j 20:21	13°♍04'55	
evening set	-10836 Nov 04 j 21:07	14°♍56'59	

Attention, astronomical year style is used: The year -10836 in astronomical counting style is the year 10837 BCE in historical counting style.

conjunction	-10836 Nov 20 j 16:11	15°♑32'19	0°23'00
minimum elong	-10836 Nov 20 j 16:11	15°♑32'19	0°23'12
max. Earth dist.	-10836 Nov 21 j 18:47	15°♑34'49	30.96042 AU
morning rise	-10836 Dec 06 j 15:19	16°♑08'02	
retrograde	-10835 Mar 08 j 12:10	18°♑06'50	
opposition	-10835 May 27 j 23:48	16°♑41'32	0°21'11
min. Earth dist.	-10835 May 26 j 22:39	16°♑43'17	28.95628 AU
direct	-10835 Aug 13 j 09:03	15°♑18'40	
evening set	-10835 Nov 07 j 08:48	17°♑10'45	
conjunction	-10835 Nov 23 j 04:24	17°♑46'07	0°16'48
minimum elong	-10835 Nov 23 j 04:24	17°♑46'07	0°17'00
max. Earth dist.	-10835 Nov 24 j 06:10	17°♑48'32	30.95132 AU
morning rise	-10835 Dec 09 j 04:20	18°♑21'53	
retrograde	-10834 Mar 11 j 00:05	20°♑20'40	
min. Earth dist.	-10834 May 29 j 11:46	18°♑56'58	28.94702 AU
opposition	-10834 May 30 j 11:40	18°♑55'18	0°14'32
direct	-10834 Aug 15 j 19:22	17°♑32'22	
evening set	-10834 Nov 09 j 20:34	19°♑24'26	
conjunction	-10834 Nov 25 j 16:58	19°♑59'50	0°10'35
minimum elong	-10834 Nov 25 j 16:59	19°♑59'50	0°10'44
behind sun begin	-10834 Nov 25 j 11:59	19°♑59'24	
behind sun end	-10834 Nov 25 j 21:58	20°♑00'17	
max. Earth dist.	-10834 Nov 26 j 19:35	20°♑02'20	30.94209 AU
morning rise	-10834 Dec 11 j 17:22	20°♑35'39	
retrograde	-10833 Mar 13 j 12:37	22°♑34'23	
opposition	-10833 Jun 01 j 23:06	21°♑08'58	0°07'52
min. Earth dist.	-10833 May 31 j 22:39	21°♑10'40	28.93786 AU
direct	-10833 Aug 18 j 07:36	19°♑45'58	
evening set	-10833 Nov 12 j 08:35	21°♑38'02	
conjunction	-10833 Nov 28 j 05:26	22°♑13'29	0°04'22
minimum elong	-10833 Nov 28 j 05:25	22°♑13'29	0°04'31
behind sun begin	-10833 Nov 27 j 23:01	22°♑12'55	
behind sun end	-10833 Nov 28 j 11:49	22°♑14'04	
max. Earth dist.	-10833 Nov 29 j 06:52	22°♑15'52	30.93324 AU
morning rise	-10833 Dec 14 j 06:34	22°♑49'20	
retrograde	-10832 Mar 15 j 01:41	24°♑48'02	
min. Earth dist.	-10832 Jun 02 j 10:50	23°♑24'14	28.92951 AU
opposition	-10832 Jun 03 j 10:43	23°♑22'34	0°01'11
desc. node	-10832 Aug 06 j 09:15	22°♑02'34	
direct	-10832 Aug 19 j 16:53	21°♑59'29	
evening set	-10832 Nov 13 j 20:20	23°♑51'35	
conjunction	-10832 Nov 29 j 17:53	24°♑27'04	-0°02'01
minimum elong	-10832 Nov 29 j 17:53	24°♑27'04	0°01'54
behind sun begin	-10832 Nov 29 j 11:21	24°♑26'29	
behind sun end	-10832 Nov 30 j 00:25	24°♑27'39	
max. Earth dist.	-10832 Nov 30 j 20:29	24°♑29'33	30.92536 AU
morning rise	-10832 Dec 15 j 19:25	25°♑02'56	
retrograde	-10831 Mar 17 j 12:19	27°♑01'37	
opposition	-10831 Jun 05 j 22:11	25°♑36'07	-0°05'30
min. Earth dist.	-10831 Jun 04 j 22:02	25°♑37'48	28.92222 AU
direct	-10831 Aug 22 j 04:35	24°♑12'59	
evening set	-10831 Nov 16 j 08:26	26°♑05'07	
conjunction	-10831 Dec 02 j 06:28	26°♑40'38	-0°08'15
minimum elong	-10831 Dec 02 j 06:28	26°♑40'38	0°08'09
behind sun begin	-10831 Dec 02 j 00:40	26°♑40'07	
behind sun end	-10831 Dec 02 j 12:15	26°♑41'09	
max. Earth dist.	-10831 Dec 03 j 08:08	26°♑43'02	30.91884 AU
morning rise	-10831 Dec 18 j 08:40	27°♑16'33	
retrograde	-10830 Mar 20 j 01:32	29°♑15'12	
min. Earth dist.	-10830 Jun 07 j 09:17	27°♑51'23	28.91647 AU
opposition	-10830 Jun 08 j 09:34	27°♑49'41	-0°12'11
direct	-10830 Aug 24 j 14:07	26°♑26'30	
evening set	-10830 Nov 18 j 20:37	28°♑18'42	
conjunction	-10830 Dec 04 j 19:17	28°♑54'15	-0°14'29
minimum elong	-10830 Dec 04 j 19:17	28°♑54'15	0°14'25
behind sun begin	-10830 Dec 04 j 16:25	28°♑54'00	
behind sun end	-10830 Dec 04 j 22:08	28°♑54'30	
max. Earth dist.	-10830 Dec 05 j 21:42	28°♑56'43	30.91366 AU
morning rise	-10830 Dec 20 j 21:54	29°♑30'11	
	-10829 Jan 03 j 23:18	0°♎	
retrograde	-10829 Mar 22 j 13:19	1°♎28'50	
opposition	-10829 Jun 10 j 20:59	0°♎03'19	-0°18'51
min. Earth dist.	-10829 Jun 09 j 21:21	0°♎04'59	28.91192 AU
	-10829 Jun 12 j 20:12	30°℞♑	
direct	-10829 Aug 27 j 00:14	28°♑40'07	
	-10829 Nov 06 j 00:15	0°♎	
evening set	-10829 Nov 21 j 08:56	0°♎32'23	
conjunction	-10829 Dec 07 j 08:06	1°♎07'58	-0°20'42
minimum elong	-10829 Dec 07 j 08:06	1°♎07'58	0°20'39
max. Earth dist.	-10829 Dec 08 j 09:58	1°♎10'23	30.90978 AU
morning rise	-10829 Dec 23 j 11:14	1°♎43'56	
retrograde	-10828 Mar 24 j 03:37	3°♎42'35	
min. Earth dist.	-10828 Jun 11 j 08:01	2°♎18'47	28.90854 AU
opposition	-10828 Jun 12 j 08:12	2°♎17'05	-0°25'30
direct	-10828 Aug 28 j 11:21	0°♎53'52	
evening set	-10828 Nov 22 j 21:28	2°♎46'13	
conjunction	-10828 Dec 08 j 21:05	3°♎21'51	-0°26'54
minimum elong	-10828 Dec 08 j 21:05	3°♎21'51	0°26'53
max. Earth dist.	-10828 Dec 09 j 22:45	3°♎24'15	30.90674 AU
morning rise	-10828 Dec 25 j 00:40	3°♎57'51	
retrograde	-10827 Mar 26 j 16:42	5°♎56'30	
opposition	-10827 Jun 14 j 19:36	4°♎31'02	-0°32'07
min. Earth dist.	-10827 Jun 13 j 20:41	4°♎32'38	28.90585 AU
direct	-10827 Aug 30 j 22:33	3°♎07'49	
evening set	-10827 Nov 25 j 10:01	5°♎00'15	
conjunction	-10827 Dec 11 j 10:15	5°♎35'55	-0°33'04
minimum elong	-10827 Dec 11 j 10:14	5°♎35'55	0°33'04
max. Earth dist.	-10827 Dec 12 j 11:52	5°♎38'18	30.90427 AU
morning rise	-10827 Dec 27 j 14:12	6°♎11'56	
retrograde	-10826 Mar 29 j 07:10	8°♎10'35	
min. Earth dist.	-10826 Jun 16 j 07:28	6°♎46'49	28.90333 AU
opposition	-10826 Jun 17 j 06:52	6°♎45'10	-0°38'41
direct	-10826 Sep 02 j 11:00	5°♎21'56	
evening set	-10826 Nov 27 j 23:06	7°♎14'28	
conjunction	-10826 Dec 13 j 23:39	7°♎50'10	-0°39'11
minimum elong	-10826 Dec 13 j 23:38	7°♎50'10	0°39'13
max. Earth dist.	-10826 Dec 14 j 23:59	7°♎52'27	30.90150 AU
morning rise	-10826 Dec 30 j 04:06	8°♎26'14	
retrograde	-10825 Mar 31 j 20:28	10°♎24'53	
opposition	-10825 Jun 19 j 18:10	8°♎59'29	-0°45'13
min. Earth dist.	-10825 Jun 18 j 20:29	9°♎01'01	28.90039 AU
direct	-10825 Sep 04 j 21:14	7°♎36'14	
evening set	-10825 Nov 30 j 12:10	9°♎28'52	
conjunction	-10825 Dec 16 j 13:18	10°♎04'36	-0°45'15
minimum elong	-10825 Dec 16 j 13:18	10°♎04'36	0°45'18
max. Earth dist.	-10825 Dec 17 j 13:49	10°♎06'54	30.89814 AU
morning rise	-10824 Jan 01 j 17:57	10°♎40'41	
retrograde	-10824 Apr 02 j 10:29	12°♎39'18	
min. Earth dist.	-10824 Jun 20 j 07:45	11°♎15'28	28.89654 AU
opposition	-10824 Jun 21 j 05:27	11°♎13'56	-0°51'40
direct	-10824 Sep 06 j 09:54	9°♎50'40	
evening set	-10824 Dec 02 j 01:19	11°♎43'23	

Attention, astronomical year style is used: The year -10824 in astronomical counting style is the year 10825 BCE in historical counting style.

conjunction	-10824 Dec 18 j 02:42	12°♎19'08	-0°51'15	
minimum elong	-10824 Dec 18 j 02:42	12°♎19'08	0°51'20	
max. Earth dist.	-10824 Dec 19 j 01:20	12°♎21'15	30.89378 AU	
morning rise	-10823 Jan 03 j 07:52	12°♎55'15		
retrograde	-10823 Apr 04 j 23:52	14°♎53'50		
opposition	-10823 Jun 23 j 16:51	13°♎28'28	-0°58'02	
min. Earth dist.	-10823 Jun 22 j 20:22	13°♎29'55	28.89180 AU	
direct	-10823 Sep 08 j 19:58	12°♎05'08		
evening set	-10823 Dec 04 j 14:33	13°♎57'56		
conjunction	-10823 Dec 20 j 16:31	14°♎33'43	-0°57'11	
minimum elong	-10823 Dec 20 j 16:30	14°♎33'43	0°57'16	
max. Earth dist.	-10823 Dec 21 j 15:24	14°♎35'51	30.88854 AU	
morning rise	-10822 Jan 05 j 21:49	15°♎09'50		
retrograde	-10822 Apr 07 j 11:02	17°♎08'22		
min. Earth dist.	-10822 Jun 25 j 08:02	15°♎44'25	28.88620 AU	
opposition	-10822 Jun 26 j 03:56	15°♎43'01	-1°04'20	
direct	-10822 Sep 11 j 08:09	14°♎19'36		
evening set	-10822 Dec 07 j 04:01	16°♎12'28		
conjunction	-10822 Dec 23 j 06:15	16°♎48'16	-1°03'01	
minimum elong	-10822 Dec 23 j 06:14	16°♎48'16	1°03'08	
max. Earth dist.	-10822 Dec 24 j 03:22	16°♎50'15	30.88278 AU	
morning rise	-10821 Jan 08 j 12:00	17°♎24'25		
retrograde	-10821 Apr 10 j 00:06	19°♎22'53		
opposition	-10821 Jun 28 j 15:03	17°♎57'30	-1°10'31	
min. Earth dist.	-10821 Jun 27 j 19:39	17°♎58'53	28.88043 AU	
direct	-10821 Sep 13 j 18:18	16°♎34'00		
evening set	-10821 Dec 09 j 17:23	18°♎26'58		
conjunction	-10821 Dec 25 j 20:01	19°♎02'47	-1°08'45	
minimum elong	-10821 Dec 25 j 20:00	19°♎02'47	1°08'54	
max. Earth dist.	-10821 Dec 26 j 17:23	19°♎04'47	30.87689 AU	
morning rise	-10820 Jan 11 j 01:52	19°♎38'55		
retrograde	-10820 Apr 11 j 11:21	21°♎37'20		
min. Earth dist.	-10820 Jun 29 j 07:44	20°♎13'15	28.87483 AU	
opposition	-10820 Jun 30 j 02:03	20°♎11'57	-1°16'36	
direct	-10820 Sep 15 j 04:34	18°♎48'22		
evening set	-10820 Dec 11 j 06:50	20°♎41'24		
conjunction	-10820 Dec 27 j 09:46	21°♎17'14	-1°14'23	
minimum elong	-10820 Dec 27 j 09:45	21°♎17'14	1°14'33	
max. Earth dist.	-10820 Dec 28 j 06:07	21°♎19'08	30.87171 AU	
morning rise	-10819 Jan 12 j 15:53	21°♎53'23		
retrograde	-10819 Apr 14 j 00:30	23°♎51'44		
opposition	-10819 Jul 02 j 12:55	22°♎26'21	-1°22'33	
min. Earth dist.	-10819 Jul 01 j 18:18	22°♎27'40	28.87020 AU	
direct	-10819 Sep 17 j 16:13	21°♎02'41		
evening set	-10819 Dec 13 j 20:21	22°♎55'49		
conjunction	-10819 Dec 29 j 23:33	23°♎31'40	-1°19'54	
minimum elong	-10819 Dec 29 j 23:32	23°♎31'40	1°20'05	
max. Earth dist.	-10819 Dec 30 j 19:34	23°♎33'32	30.86746 AU	
morning rise	-10818 Jan 15 j 05:53	24°♎07'50		
retrograde	-10818 Apr 16 j 12:24	26°♎06'08		
opposition	-10818 Jul 04 j 23:55	24°♎40'44	-1°28'24	
min. Earth dist.	-10818 Jul 04 j 06:40	24°♎41'58	28.86665 AU	
direct	-10818 Sep 20 j 03:45	23°♎17'01		
evening set	-10818 Dec 16 j 09:59	25°♎10'16		
conjunction	-10817 Jan 01 j 13:34	25°♎46'08	-1°25'18	
minimum elong	-10817 Jan 01 j 13:33	25°♎46'08	1°25'31	
max. Earth dist.	-10817 Jan 02 j 09:14	25°♎47'58	30.86455 AU	
morning rise	-10817 Jan 17 j 19:59	26°♎22'17		
retrograde	-10817 Apr 19 j 02:05	28°♎20'31		
opposition	-10817 Jul 07 j 10:38	26°♎55'10	-1°34'06	
min. Earth dist.	-10817 Jul 06 j 16:49	26°♎56'26	28.86442 AU	
direct	-10817 Sep 22 j 16:14	25°♎31'23		
evening set	-10817 Dec 18 j 23:48	27°♎24'46		
conjunction	-10816 Jan 04 j 03:29	28°♎00'39	-1°30'34	
minimum elong	-10816 Jan 04 j 03:28	28°♎00'38	1°30'48	
max. Earth dist.	-10816 Jan 04 j 22:04	28°♎02'23	30.86284 AU	
morning rise	-10816 Jan 20 j 10:07	28°♎36'48		
	-10816 Mar 04 j 20:30	0°♏		
retrograde	-10816 Apr 20 j 15:19	0°♏35'00		
	-10816 Jun 07 j 05:16	30°℞♎		
opposition	-10816 Jul 08 j 21:35	29°♎09'41	-1°39'40	
min. Earth dist.	-10816 Jul 08 j 05:13	29°♎10'51	28.86346 AU	
direct	-10816 Sep 24 j 02:47	27°♎45'52		
evening set	-10816 Dec 20 j 13:23	29°♎39'22		
	-10816 Dec 29 j 21:51	0°♏		
conjunction	-10815 Jan 05 j 17:28	0°♏15'16	-1°35'43	
minimum elong	-10815 Jan 05 j 17:27	0°♏15'16	1°35'58	
max. Earth dist.	-10815 Jan 06 j 12:25	0°♏17'02	30.86238 AU	
morning rise	-10815 Jan 22 j 00:05	0°♏51'25		
retrograde	-10815 Apr 23 j 05:40	2°♏49'34		
opposition	-10815 Jul 11 j 08:23	1°♏24'19	-1°45'05	
min. Earth dist.	-10815 Jul 10 j 15:54	1°♏25'29	28.86342 AU	
direct	-10815 Sep 26 j 16:13	0°♏00'29		
evening set	-10815 Dec 23 j 03:29	1°♏54'06		
conjunction	-10814 Jan 08 j 07:36	2°♏30'01	-1°40'42	
minimum elong	-10814 Jan 08 j 07:35	2°♏30'01	1°40'59	
max. Earth dist.	-10814 Jan 09 j 00:44	2°♏31'37	30.86262 AU	
morning rise	-10814 Jan 24 j 14:27	3°♏06'11		
retrograde	-10814 Apr 25 j 18:50	5°♏04'17		
opposition	-10814 Jul 13 j 19:08	3°♏39'06	-1°50'21	
min. Earth dist.	-10814 Jul 13 j 03:59	3°♏40'10	28.86399 AU	
direct	-10814 Sep 29 j 02:51	2°♏15'14		
evening set	-10814 Dec 25 j 17:38	4°♏09'00		
conjunction	-10813 Jan 10 j 22:05	4°♏44'55	-1°45'33	
minimum elong	-10813 Jan 10 j 22:04	4°♏44'55	1°45'51	
max. Earth dist.	-10813 Jan 11 j 15:21	4°♏46'32	30.86309 AU	
morning rise	-10813 Jan 27 j 04:49	5°♏21'05		
retrograde	-10813 Apr 28 j 07:06	7°♏19'08		
opposition	-10813 Jul 16 j 05:56	5°♏54'00	-1°55'27	
min. Earth dist.	-10813 Jul 15 j 15:33	5°♏55'02	28.86436 AU	
direct	-10813 Oct 01 j 15:10	4°♏30'07		
evening set	-10813 Dec 28 j 07:58	6°♏24'01		
conjunction	-10812 Jan 13 j 12:24	6°♏59'57	-1°50'14	
minimum elong	-10812 Jan 13 j 12:23	6°♏59'57	1°50'34	
max. Earth dist.	-10812 Jan 14 j 03:28	7°♏01'21	30.86316 AU	
morning rise	-10812 Jan 29 j 19:16	7°♏36'06		
retrograde	-10812 Apr 29 j 21:01	9°♏34'05		
opposition	-10812 Jul 17 j 16:45	8°♏09'01	-2°00'22	
min. Earth dist.	-10812 Jul 17 j 03:09	8°♏09'59	28.86422 AU	
direct	-10812 Oct 03 j 01:46	6°♏45'04		
evening set	-10812 Dec 29 j 22:19	8°♏39'05		
conjunction	-10811 Jan 15 j 03:01	9°♏15'02	-1°54'45	
minimum elong	-10811 Jan 15 j 03:00	9°♏15'02	1°55'05	
max. Earth dist.	-10811 Jan 15 j 17:49	9°♏16'25	30.86243 AU	
morning rise	-10811 Jan 31 j 09:44	9°♏51'11		
retrograde	-10811 May 02 j 08:09	11°♏49'05		
opposition	-10811 Jul 20 j 03:34	10°♏24'03	-2°05'06	
min. Earth dist.	-10811 Jul 19 j 15:35	10°♏24'54	28.86309 AU	
direct	-10811 Oct 05 j 12:36	9°♏00'02		
evening set	-10810 Jan 01 j 12:48	10°♏54'10		
conjunction	-10810 Jan 17 j 17:36	11°♏30'06	-1°59'06	

Attention, astronomical year style is used: The year -10810 in astronomical counting style is the year 10811 BCE in historical counting style.

minimum elong	-10810 Jan 17 j 17:35	11°♏30'06	1°59'27	
max. Earth dist.	-10810 Jan 18 j 06:31	11°♏31'18	30.86086 AU	
morning rise	-10810 Feb 03 j 00:26	12°♏06'15		
retrograde	-10810 May 04 j 20:41	14°♏04'02		
opposition	-10810 Jul 22 j 14:18	12°♏39'02	-2°09'39	
min. Earth dist.	-10810 Jul 22 j 02:39	12°♏39'51	28.86112 AU	
direct	-10810 Oct 08 j 00:50	11°♏14'54		
evening set	-10809 Jan 04 j 03:23	13°♏09'09		
conjunction	-10809 Jan 20 j 08:17	13°♏45'05	-2°03'16	
minimum elong	-10809 Jan 20 j 08:16	13°♏45'05	2°03'38	
max. Earth dist.	-10809 Jan 20 j 20:17	13°♏46'12	30.85837 AU	
morning rise	-10809 Feb 05 j 15:00	14°♏21'13		
	-10809 Feb 24 j 05:47	15°♏		
retrograde	-10809 May 07 j 07:33	16°♏18'54		
	-10809 Jul 21 j 11:06	15°℞♏		
opposition	-10809 Jul 25 j 01:00	14°♏53'54	-2°14'00	
min. Earth dist.	-10809 Jul 24 j 15:15	14°♏54'35	28.85851 AU	
direct	-10809 Oct 10 j 12:09	13°♏29'40		
	-10809 Dec 26 j 10:14	15°♏		
evening set	-10808 Jan 06 j 17:51	15°♏24'01		
conjunction	-10808 Jan 22 j 22:54	15°♏59'57	-2°07'14	
minimum elong	-10808 Jan 22 j 22:52	15°♏59'57	2°07'38	
max. Earth dist.	-10808 Jan 23 j 09:54	16°♏00'58	30.85571 AU	
morning rise	-10808 Feb 08 j 05:33	16°♏36'03		
retrograde	-10808 May 08 j 20:32	18°♏33'37		
opposition	-10808 Jul 26 j 11:32	17°♏08'37	-2°18'08	
min. Earth dist.	-10808 Jul 26 j 01:38	17°♏09'20	28.85595 AU	
direct	-10808 Oct 12 j 00:51	15°♏44'18		
evening set	-10807 Jan 08 j 08:15	17°♏38'45		
conjunction	-10807 Jan 24 j 13:16	18°♏14'40	-2°11'00	
minimum elong	-10807 Jan 24 j 13:15	18°♏14'40	2°11'25	
max. Earth dist.	-10807 Jan 24 j 22:59	18°♏15'34	30.85324 AU	
morning rise	-10807 Feb 09 j 19:55	18°♏50'46		
retrograde	-10807 May 11 j 08:29	20°♏48'13		
opposition	-10807 Jul 28 j 22:10	19°♏23'13	-2°22'04	
min. Earth dist.	-10807 Jul 28 j 13:58	19°♏23'48	28.85399 AU	
direct	-10807 Oct 14 j 12:15	17°♏58'48		
evening set	-10806 Jan 10 j 22:41	19°♏53'21		
conjunction	-10806 Jan 27 j 03:55	20°♏29'17	-2°14'35	
minimum elong	-10806 Jan 27 j 03:54	20°♏29'16	2°15'01	
max. Earth dist.	-10806 Jan 27 j 13:35	20°♏30'11	30.85167 AU	
morning rise	-10806 Feb 12 j 10:22	21°♏05'21		
retrograde	-10806 May 13 j 21:35	23°♏02'41		
opposition	-10806 Jul 31 j 08:30	21°♏37'43	-2°25'47	
min. Earth dist.	-10806 Jul 31 j 00:21	21°♏38'18	28.85299 AU	
direct	-10806 Oct 17 j 02:12	20°♏13'13		
evening set	-10805 Jan 13 j 13:20	22°♏07'53		
conjunction	-10805 Jan 29 j 18:26	22°♏43'49	-2°17'57	
minimum elong	-10805 Jan 29 j 18:25	22°♏43'49	2°18'23	
max. Earth dist.	-10805 Jan 30 j 02:20	22°♏44'33	30.85124 AU	
morning rise	-10805 Feb 15 j 00:54	23°♏19'52		
retrograde	-10805 May 16 j 10:16	25°♏17'07		
opposition	-10805 Aug 02 j 19:03	23°♏52'11	-2°29'16	
min. Earth dist.	-10805 Aug 02 j 11:59	23°♏52'41	28.85343 AU	
direct	-10805 Oct 19 j 13:28	22°♏27'36		
evening set	-10804 Jan 16 j 03:39	24°♏22'25		
conjunction	-10804 Feb 01 j 08:56	24°♏58'20	-2°21'07	
minimum elong	-10804 Feb 01 j 08:55	24°♏58'20	2°21'34	
max. Earth dist.	-10804 Feb 01 j 17:12	24°♏59'06	30.85228 AU	
morning rise	-10804 Feb 17 j 15:04	25°♏34'22		
retrograde	-10804 May 17 j 22:29	27°♏31'31		
opposition	-10804 Aug 04 j 05:29	26°♏06'39	-2°32'32	
min. Earth dist.	-10804 Aug 03 j 22:51	26°♏07'08	28.85525 AU	
direct	-10804 Oct 21 j 02:12	24°♏42'03		
evening set	-10803 Jan 17 j 18:15	26°♏36'59		
conjunction	-10803 Feb 02 j 23:24	27°♏12'55	-2°24'03	
minimum elong	-10803 Feb 02 j 23:23	27°♏12'55	2°24'31	
max. Earth dist.	-10803 Feb 03 j 05:44	27°♏13'30	30.85485 AU	
morning rise	-10803 Feb 19 j 05:34	27°♏48'56		
retrograde	-10803 May 20 j 12:29	29°♏45'59		
opposition	-10803 Aug 06 j 15:50	28°♏21'13	-2°35'34	
min. Earth dist.	-10803 Aug 06 j 09:40	28°♏21'39	28.85860 AU	
direct	-10803 Oct 23 j 13:07	26°♏56'34		
evening set	-10802 Jan 20 j 08:50	28°♏51'40		
conjunction	-10802 Feb 05 j 14:08	29°♏27'36	-2°26'47	
minimum elong	-10802 Feb 05 j 14:07	29°♏27'36	2°27'17	
max. Earth dist.	-10802 Feb 05 j 20:37	29°♏28'12	30.85864 AU	
	-10802 Feb 20 j 04:21	0°♐		
morning rise	-10802 Feb 21 j 20:01	0°♐03'37		
retrograde	-10802 May 22 j 23:27	2°♐00'35		
opposition	-10802 Aug 09 j 02:19	0°♐35'54	-2°38'21	
min. Earth dist.	-10802 Aug 08 j 21:36	0°♐36'15	28.86284 AU	
	-10802 Aug 30 j 18:23	30°℞♏		
direct	-10802 Oct 26 j 00:08	29°♏11'15		
	-10802 Dec 20 j 00:10	0°♐		
evening set	-10801 Jan 22 j 23:37	1°♐06'30		
conjunction	-10801 Feb 08 j 04:48	1°♐42'25	-2°29'17	
minimum elong	-10801 Feb 08 j 04:47	1°♐42'25	2°29'47	
max. Earth dist.	-10801 Feb 08 j 09:30	1°♐42'52	30.86321 AU	
morning rise	-10801 Feb 24 j 10:36	2°♐18'25		
retrograde	-10801 May 25 j 11:57	4°♐15'18		
opposition	-10801 Aug 11 j 12:39	2°♐50'45	-2°40'54	
min. Earth dist.	-10801 Aug 11 j 08:09	2°♐51'04	28.86763 AU	
direct	-10801 Oct 28 j 11:55	1°♐26'05		
evening set	-10800 Jan 25 j 14:25	3°♐21'29		
conjunction	-10800 Feb 10 j 19:36	3°♐57'24	-2°31'33	
minimum elong	-10800 Feb 10 j 19:35	3°♐57'24	2°32'05	
max. Earth dist.	-10800 Feb 10 j 23:37	3°♐57'47	30.86786 AU	
morning rise	-10800 Feb 27 j 01:08	4°♐33'23		
retrograde	-10800 May 26 j 23:06	6°♐30'11		
opposition	-10800 Aug 12 j 23:15	5°♐05'44	-2°43'12	
min. Earth dist.	-10800 Aug 12 j 20:43	5°♐05'55	28.87228 AU	
direct	-10800 Oct 29 j 22:20	3°♐41'02		
evening set	-10799 Jan 27 j 05:06	5°♐36'34		
conjunction	-10799 Feb 12 j 10:18	6°♐12'29	-2°33'36	
minimum elong	-10799 Feb 12 j 10:17	6°♐12'29	2°34'07	
max. Earth dist.	-10799 Feb 12 j 12:52	6°♐12'44	30.87224 AU	
morning rise	-10799 Feb 28 j 15:42	6°♐48'27		
retrograde	-10799 May 29 j 11:48	8°♐45'09		
opposition	-10799 Aug 15 j 09:42	7°♐20'47	-2°45'16	
min. Earth dist.	-10799 Aug 15 j 07:19	7°♐20'57	28.87626 AU	
direct	-10799 Nov 01 j 10:26	5°♐56'01		
evening set	-10798 Jan 29 j 20:05	7°♐51'42		
conjunction	-10798 Feb 15 j 01:11	8°♐27'36	-2°35'24	
minimum elong	-10798 Feb 15 j 01:10	8°♐27'36	2°35'56	
max. Earth dist.	-10798 Feb 15 j 02:01	8°♐27'41	30.87567 AU	
morning rise	-10798 Mar 03 j 06:23	9°♐03'33		
retrograde	-10798 May 31 j 22:54	11°♐00'08		
opposition	-10798 Aug 17 j 20:14	9°♐35'49	-2°47'04	
min. Earth dist.	-10798 Aug 17 j 19:58	9°♐35'50	28.87936 AU	
direct	-10798 Nov 03 j 22:17	8°♐11'00		
evening set	-10797 Feb 01 j 10:56	10°♐06'47		

Attention, astronomical year style is used: The year -10797 in astronomical counting style is the year 10798 BCE in historical counting style.

conjunction	-10797 Feb 17 j 16:06	10°♐42'41	-2°36'59
minimum elong	-10797 Feb 17 j 16:06	10°♐42'41	2°37'31
max. Earth dist.	-10797 Feb 17 j 16:15	10°♐42'42	30.87836 AU
morning rise	-10797 Mar 05 j 21:01	11°♐18'36	
retrograde	-10797 Jun 03 j 11:10	13°♐15'02	
opposition	-10797 Aug 20 j 06:41	11°♐50'46	-2°48'38
min. Earth dist.	-10797 Aug 20 j 06:50	11°♐50'46	28.88166 AU
direct	-10797 Nov 06 j 12:39	10°♐25'52	
evening set	-10796 Feb 04 j 01:41	12°♐21'45	
conjunction	-10796 Feb 20 j 06:38	12°♐57'38	-2°38'19
minimum elong	-10796 Feb 20 j 06:38	12°♐57'38	2°38'53
max. Earth dist.	-10796 Feb 20 j 04:43	12°♐57'27	30.88039 AU
morning rise	-10796 Mar 07 j 11:28	13°♐33'31	
retrograde	-10796 Jun 04 j 23:21	15°♐29'49	
opposition	-10796 Aug 21 j 17:08	14°♐05'35	-2°49'56
min. Earth dist.	-10796 Aug 21 j 18:44	14°♐05'28	28.88371 AU
direct	-10796 Nov 08 j 00:22	12°♐40'35	
evening set	-10795 Feb 05 j 16:19	14°♐36'32	
conjunction	-10795 Feb 21 j 21:24	15°♐12'25	-2°39'25
minimum elong	-10795 Feb 21 j 21:24	15°♐12'25	2°39'59
max. Earth dist.	-10795 Feb 21 j 19:28	15°♐12'14	30.88241 AU
morning rise	-10795 Mar 10 j 01:52	15°♐48'16	
retrograde	-10795 Jun 07 j 11:23	17°♐44'24	
opposition	-10795 Aug 24 j 03:23	16°♐20'12	-2°50'58
min. Earth dist.	-10795 Aug 24 j 05:48	16°♐20'01	28.88583 AU
direct	-10795 Nov 10 j 14:10	14°♐55'07	
evening set	-10794 Feb 08 j 07:07	16°♐51'09	
conjunction	-10794 Feb 24 j 11:59	17°♐27'00	-2°40'16
minimum elong	-10794 Feb 24 j 11:58	17°♐27'00	2°40'51
max. Earth dist.	-10794 Feb 24 j 07:50	17°♐26'37	30.88484 AU
morning rise	-10794 Mar 12 j 16:24	18°♐02'50	
retrograde	-10794 Jun 10 j 00:51	19°♐58'48	
opposition	-10794 Aug 26 j 13:42	18°♐34'38	-2°51'45
min. Earth dist.	-10794 Aug 26 j 16:40	18°♐34'25	28.88873 AU
direct	-10794 Nov 13 j 02:55	17°♐09'27	
evening set	-10793 Feb 10 j 21:40	19°♐05'34	
conjunction	-10793 Feb 27 j 02:35	19°♐41'26	-2°40'53
minimum elong	-10793 Feb 27 j 02:34	19°♐41'26	2°41'27
max. Earth dist.	-10793 Feb 26 j 22:40	19°♐41'04	30.88811 AU
morning rise	-10793 Mar 15 j 06:34	20°♐17'14	
retrograde	-10793 Jun 12 j 10:57	22°♐13'02	
opposition	-10793 Aug 29 j 00:04	20°♐48'55	-2°52'17
min. Earth dist.	-10793 Aug 29 j 04:19	20°♐48'37	28.89261 AU
direct	-10793 Nov 15 j 15:23	19°♐23'41	
evening set	-10792 Feb 13 j 12:14	21°♐19'52	
conjunction	-10792 Feb 29 j 16:57	21°♐55'43	-2°41'15
minimum elong	-10792 Feb 29 j 16:57	21°♐55'43	2°41'51
max. Earth dist.	-10792 Feb 29 j 11:24	21°♐55'12	30.89274 AU
morning rise	-10792 Mar 16 j 20:52	22°♐31'30	
retrograde	-10792 Jun 13 j 23:29	24°♐27'09	
opposition	-10792 Aug 30 j 10:18	23°♐03'05	-2°52'33
min. Earth dist.	-10792 Aug 30 j 14:23	23°♐02'48	28.89801 AU
direct	-10792 Nov 17 j 03:28	21°♐37'48	
evening set	-10791 Feb 15 j 02:36	23°♐34'05	
conjunction	-10791 Mar 03 j 07:21	24°♐09'55	-2°41'23
minimum elong	-10791 Mar 03 j 07:21	24°♐09'55	2°41'57
max. Earth dist.	-10791 Mar 03 j 01:41	24°♐09'23	30.89878 AU
morning rise	-10791 Mar 19 j 10:56	24°♐45'41	
retrograde	-10791 Jun 16 j 10:13	26°♐41'12	
opposition	-10791 Sep 01 j 20:43	25°♐17'13	-2°52'33
min. Earth dist.	-10791 Sep 02 j 02:23	25°♐16'49	28.90476 AU
direct	-10791 Nov 19 j 14:09	23°♐51'54	
evening set	-10790 Feb 17 j 17:09	25°♐48'17	
conjunction	-10790 Mar 05 j 21:48	26°♐24'07	-2°41'15
minimum elong	-10790 Mar 05 j 21:48	26°♐24'07	2°41'52
max. Earth dist.	-10790 Mar 05 j 14:59	26°♐23'29	30.90627 AU
morning rise	-10790 Mar 22 j 01:12	26°♐59'51	
retrograde	-10790 Jun 18 j 22:00	28°♐55'14	
opposition	-10790 Sep 04 j 06:54	27°♐31'23	-2°52'17
min. Earth dist.	-10790 Sep 04 j 12:21	27°♐31'00	28.91274 AU
direct	-10790 Nov 22 j 02:11	26°♐06'03	
evening set	-10789 Feb 20 j 07:44	28°♐02'33	
conjunction	-10789 Mar 08 j 12:15	28°♐38'22	-2°40'53
minimum elong	-10789 Mar 08 j 12:15	28°♐38'22	2°41'29
max. Earth dist.	-10789 Mar 08 j 04:24	28°♐37'38	30.91468 AU
morning rise	-10789 Mar 24 j 15:23	29°♐14'05	
	-10789 Apr 16 j 00:10	0°♑	
retrograde	-10789 Jun 21 j 08:30	1°♑09'22	
	-10789 Aug 29 j 05:56	30°℞♐	
opposition	-10789 Sep 06 j 17:23	29°♐45'37	-2°51'46
min. Earth dist.	-10789 Sep 07 j 00:33	29°♐45'07	28.92153 AU
direct	-10789 Nov 24 j 13:19	28°♐20'18	
	-10788 Feb 15 j 00:15	0°♑	
evening set	-10788 Feb 22 j 22:04	0°♑16'54	
conjunction	-10788 Mar 10 j 02:33	0°♑52'43	-2°40'17
minimum elong	-10788 Mar 10 j 02:33	0°♑52'43	2°40'53
max. Earth dist.	-10788 Mar 09 j 18:15	0°♑51'56	30.92365 AU
morning rise	-10788 Mar 26 j 05:25	1°♑28'25	
retrograde	-10788 Jun 22 j 20:14	3°♑23'35	
opposition	-10788 Sep 08 j 03:46	1°♑59'57	-2°50'58
min. Earth dist.	-10788 Sep 08 j 11:18	1°♑59'25	28.93038 AU
direct	-10788 Nov 26 j 02:36	0°♑34'38	
evening set	-10787 Feb 24 j 12:42	2°♑31'21	
conjunction	-10787 Mar 12 j 16:58	3°♑07'10	-2°39'25
minimum elong	-10787 Mar 12 j 16:58	3°♑07'10	2°40'01
max. Earth dist.	-10787 Mar 12 j 06:43	3°♑06'12	30.93231 AU
morning rise	-10787 Mar 28 j 19:40	3°♑42'51	
retrograde	-10787 Jun 25 j 08:22	5°♑37'54	
opposition	-10787 Sep 10 j 14:10	4°♑14'23	-2°49'56
min. Earth dist.	-10787 Sep 10 j 23:13	4°♑13'44	28.93879 AU
direct	-10787 Nov 28 j 13:42	2°♑49'02	
evening set	-10786 Feb 27 j 03:14	4°♑45'52	
conjunction	-10786 Mar 15 j 07:34	5°♑21'40	-2°38'20
minimum elong	-10786 Mar 15 j 07:35	5°♑21'40	2°38'56
max. Earth dist.	-10786 Mar 14 j 20:59	5°♑20'41	30.94024 AU
morning rise	-10786 Mar 31 j 09:53	5°♑57'20	
retrograde	-10786 Jun 27 j 20:18	7°♑52'15	
opposition	-10786 Sep 13 j 00:46	6°♑28'50	-2°48'38
min. Earth dist.	-10786 Sep 13 j 10:51	6°♑28'07	28.94610 AU
direct	-10786 Dec 01 j 03:49	5°♑03'28	
evening set	-10785 Mar 01 j 17:49	7°♑00'22	
conjunction	-10785 Mar 17 j 21:51	7°♑36'10	-2°37'00
minimum elong	-10785 Mar 17 j 21:51	7°♑36'10	2°37'35
max. Earth dist.	-10785 Mar 17 j 08:49	7°♑34'57	30.94706 AU
morning rise	-10785 Apr 03 j 00:02	8°♑11'48	
retrograde	-10785 Jun 30 j 09:32	10°♑06'36	
opposition	-10785 Sep 15 j 11:17	8°♑43'14	-2°47'05
min. Earth dist.	-10785 Sep 15 j 22:07	8°♑42'28	28.95243 AU
direct	-10785 Dec 03 j 16:58	7°♑17'50	
evening set	-10784 Mar 03 j 08:08	9°♑14'48	
conjunction	-10784 Mar 19 j 12:13	9°♑50'35	-2°35'26

Attention, astronomical year style is used: The year -10784 in astronomical counting style is the year 10785 BCE in historical counting style.

minimum elong	-10784 Mar 19 j 12:14	9°♓50'35	2°36'03
max. Earth dist.	-10784 Mar 18 j 23:05	9°♓49'22	30.95291 AU
morning rise	-10784 Apr 04 j 14:00	10°♓26'12	
retrograde	-10784 Jul 01 j 19:47	12°♓20'50	
opposition	-10784 Sep 16 j 21:48	10°♓57'32	-2°45'17
min. Earth dist.	-10784 Sep 17 j 10:18	10°♓56'39	28.95783 AU
direct	-10784 Dec 05 j 06:02	9°♓32'05	
evening set	-10783 Mar 05 j 22:25	11°♓29'06	
max. Earth dist.	-10783 Mar 21 j 11:07	12°♓03'28	30.95813 AU
conjunction	-10783 Mar 22 j 02:17	12°♓04'52	-2°33'38
minimum elong	-10783 Mar 22 j 02:17	12°♓04'52	2°34'13
morning rise	-10783 Apr 07 j 04:01	12°♓40'28	
retrograde	-10783 Jul 04 j 08:27	14°♓34'56	
opposition	-10783 Sep 19 j 08:12	13°♓11'41	-2°43'14
min. Earth dist.	-10783 Sep 19 j 20:50	13°♓10'48	28.96279 AU
direct	-10783 Dec 07 j 19:03	11°♓46'10	
evening set	-10782 Mar 08 j 12:33	13°♓43'13	
conjunction	-10782 Mar 24 j 16:24	14°♓18'59	-2°31'37
minimum elong	-10782 Mar 24 j 16:25	14°♓18'59	2°32'12
max. Earth dist.	-10782 Mar 24 j 01:02	14°♓17'34	30.96297 AU
morning rise	-10782 Apr 09 j 17:44	14°♓54'33	
retrograde	-10782 Jul 06 j 19:00	16°♓48'52	
opposition	-10782 Sep 21 j 18:40	15°♓25'39	-2°40'57
min. Earth dist.	-10782 Sep 22 j 09:04	15°♓24'38	28.96768 AU
direct	-10782 Dec 10 j 06:36	14°♓00'05	
evening set	-10781 Mar 11 j 02:36	15°♓57'10	
conjunction	-10781 Mar 27 j 06:15	16°♓32'55	-2°29'22
minimum elong	-10781 Mar 27 j 06:16	16°♓32'55	2°29'56
max. Earth dist.	-10781 Mar 26 j 13:43	16°♓31'22	30.96817 AU
morning rise	-10781 Apr 12 j 07:25	17°♓08'27	
retrograde	-10781 Jul 09 j 05:48	19°♓02'36	
opposition	-10781 Sep 24 j 05:06	17°♓39'27	-2°38'26
min. Earth dist.	-10781 Sep 24 j 19:05	17°♓38'27	28.97310 AU
direct	-10781 Dec 12 j 19:19	16°♓13'49	
evening set	-10780 Mar 12 j 16:20	18°♓10'55	
conjunction	-10780 Mar 28 j 19:51	18°♓46'40	-2°26'54
minimum elong	-10780 Mar 28 j 19:52	18°♓46'40	2°27'29
max. Earth dist.	-10780 Mar 28 j 02:43	18°♓45'04	30.97401 AU
morning rise	-10780 Apr 13 j 20:43	19°♓22'11	
retrograde	-10780 Jul 10 j 15:03	21°♓16'11	
opposition	-10780 Sep 25 j 15:38	19°♓53'05	-2°35'41
min. Earth dist.	-10780 Sep 26 j 07:01	19°♓51'59	28.97949 AU
direct	-10780 Dec 14 j 06:36	18°♓27'25	
evening set	-10779 Mar 15 j 06:05	20°♓24'32	
conjunction	-10779 Mar 31 j 09:32	21°♓00'16	-2°24'12
minimum elong	-10779 Mar 31 j 09:32	21°♓00'17	2°24'46
max. Earth dist.	-10779 Mar 30 j 16:10	20°♓58'39	30.98106 AU
morning rise	-10779 Apr 16 j 10:07	21°♓35'46	
retrograde	-10779 Jul 13 j 01:33	23°♓29'37	
opposition	-10779 Sep 28 j 01:57	22°♓06'35	-2°32'41
min. Earth dist.	-10779 Sep 28 j 17:14	22°♓05'30	28.98698 AU
direct	-10779 Dec 16 j 19:05	20°♓40'54	
evening set	-10778 Mar 17 j 19:57	22°♓38'04	
conjunction	-10778 Apr 02 j 23:08	23°♓13'48	-2°21'18
minimum elong	-10778 Apr 02 j 23:09	23°♓13'48	2°21'53
max. Earth dist.	-10778 Apr 02 j 04:32	23°♓12'04	30.98925 AU
morning rise	-10778 Apr 18 j 23:30	23°♓49'17	
retrograde	-10778 Jul 15 j 12:36	25°♓43'00	
opposition	-10778 Sep 30 j 12:30	24°♓20'03	-2°29'28
min. Earth dist.	-10778 Oct 01 j 04:38	24°♓18'54	28.99578 AU
direct	-10778 Dec 19 j 05:42	22°♓54'21	
evening set	-10777 Mar 20 j 09:29	24°♓51'35	
conjunction	-10777 Apr 05 j 12:37	25°♓27'17	-2°18'11
minimum elong	-10777 Apr 05 j 12:38	25°♓27'17	2°18'45
max. Earth dist.	-10777 Apr 04 j 18:29	25°♓25'36	30.99861 AU
morning rise	-10777 Apr 21 j 12:35	26°♓02'44	
retrograde	-10777 Jul 17 j 23:13	27°♓56'21	
opposition	-10777 Oct 02 j 23:03	26°♓33'30	-2°26'02
min. Earth dist.	-10777 Oct 03 j 15:42	26°♓32'19	29.00538 AU
direct	-10777 Dec 21 j 19:40	25°♓07'49	
evening set	-10776 Mar 21 j 23:11	27°♓05'06	
max. Earth dist.	-10776 Apr 06 j 06:06	27°♓38'56	31.00863 AU
conjunction	-10776 Apr 07 j 01:59	27°♓40'47	-2°14'52
minimum elong	-10776 Apr 07 j 02:00	27°♓40'47	2°15'26
morning rise	-10776 Apr 23 j 01:50	28°♓16'13	
	-10776 Jun 25 j 18:25	0°♒	
retrograde	-10776 Jul 19 j 11:46	0°♒09'44	
	-10776 Aug 12 j 10:23	30°℞♓	
opposition	-10776 Oct 04 j 09:29	28°♓46'58	-2°22'22
min. Earth dist.	-10776 Oct 05 j 02:29	28°♓45'46	29.01554 AU
direct	-10776 Dec 23 j 08:09	27°♓21'18	
evening set	-10775 Mar 24 j 12:41	29°♓18'38	
conjunction	-10775 Apr 09 j 15:30	29°♓54'19	-2°11'20
minimum elong	-10775 Apr 09 j 15:31	29°♓54'19	2°11'52
max. Earth dist.	-10775 Apr 08 j 19:54	29°♓52'30	31.01873 AU
	-10775 Apr 12 j 04:31	0°♒	
morning rise	-10775 Apr 25 j 14:54	0°♒29'44	
retrograde	-10775 Jul 21 j 22:09	2°♒23'08	
opposition	-10775 Oct 06 j 20:13	1°♒00'27	-2°18'29
min. Earth dist.	-10775 Oct 07 j 14:42	0°♒59'09	29.02529 AU
	-10775 Nov 15 j 15:28	30°℞♓	
direct	-10775 Dec 25 j 20:52	29°♓34'49	
	-10774 Feb 03 j 13:19	0°♒	
evening set	-10774 Mar 27 j 02:22	1°♒32'11	
max. Earth dist.	-10774 Apr 11 j 07:19	2°♒05'51	31.02823 AU
conjunction	-10774 Apr 12 j 04:49	2°♒07'51	-2°07'36
minimum elong	-10774 Apr 12 j 04:50	2°♒07'51	2°08'09
morning rise	-10774 Apr 28 j 04:04	2°♒43'14	
retrograde	-10774 Jul 24 j 11:08	4°♒36'31	
opposition	-10774 Oct 09 j 06:51	3°♒13'55	-2°14'24
min. Earth dist.	-10774 Oct 10 j 01:21	3°♒12'37	29.03427 AU
direct	-10774 Dec 28 j 10:30	1°♒48'17	
evening set	-10773 Mar 29 j 15:52	3°♒45'40	
conjunction	-10773 Apr 14 j 18:13	4°♒21'19	-2°03'42
minimum elong	-10773 Apr 14 j 18:14	4°♒21'19	2°04'13
max. Earth dist.	-10773 Apr 13 j 20:38	4°♒19'19	31.03669 AU
morning rise	-10773 Apr 30 j 17:00	4°♒56'41	
retrograde	-10773 Jul 26 j 21:45	6°♒49'51	
opposition	-10773 Oct 11 j 17:45	5°♒27'18	-2°10'07
min. Earth dist.	-10773 Oct 12 j 14:00	5°♒25'53	29.04217 AU
direct	-10773 Dec 30 j 23:01	4°♒01'40	
evening set	-10772 Mar 31 j 05:10	5°♒59'02	
max. Earth dist.	-10772 Apr 15 j 08:20	6°♒32'32	31.04417 AU
conjunction	-10772 Apr 16 j 07:14	6°♒34'40	-1°59'36
minimum elong	-10772 Apr 16 j 07:15	6°♒34'41	2°00'08
morning rise	-10772 May 02 j 05:52	7°♒10'01	
retrograde	-10772 Jul 28 j 08:37	9°♒03'02	
opposition	-10772 Oct 13 j 04:26	7°♒40'33	-2°05'40
min. Earth dist.	-10772 Oct 14 j 00:28	7°♒39'09	29.04895 AU
direct	-10771 Jan 01 j 12:34	6°♒14'52	
evening set	-10771 Apr 02 j 18:28	8°♒12'14	

Attention, astronomical year style is used: The year -10771 in astronomical counting style is the year 10772 BCE in historical counting style.

conjunction	-10771 Apr 18 j 20:22	8°♒47'51	-1°55'21
minimum elong	-10771 Apr 18 j 20:23	8°♒47'52	1°55'50
max. Earth dist.	-10771 Apr 17 j 20:41	8°♒45'39	31.05052 AU
morning rise	-10771 May 04 j 18:37	9°♒23'11	
retrograde	-10771 Jul 30 j 18:03	11°♒16'03	
opposition	-10771 Oct 15 j 15:09	9°♒53'36	-2°01'01
min. Earth dist.	-10771 Oct 16 j 12:47	9°♒52'05	29.05492 AU
direct	-10770 Jan 03 j 23:56	8°♒27'53	
evening set	-10770 Apr 05 j 07:39	10°♒25'13	
max. Earth dist.	-10770 Apr 20 j 09:18	10°♒58'35	31.05634 AU
conjunction	-10770 Apr 21 j 09:20	11°♒00'50	-1°50'55
minimum elong	-10770 Apr 21 j 09:21	11°♒00'50	1°51'25
morning rise	-10770 May 07 j 07:16	11°♒36'07	
retrograde	-10770 Aug 02 j 04:05	13°♒28'51	
opposition	-10770 Oct 18 j 01:54	12°♒06'26	-1°56'12
min. Earth dist.	-10770 Oct 18 j 23:30	12°♒04'55	29.06040 AU
direct	-10769 Jan 06 j 12:45	10°♒40'40	
evening set	-10769 Apr 07 j 20:34	12°♒37'59	
conjunction	-10769 Apr 23 j 21:54	13°♒13'34	-1°46'20
minimum elong	-10769 Apr 23 j 21:54	13°♒13'34	1°46'48
max. Earth dist.	-10769 Apr 22 j 20:52	13°♒11'14	31.06188 AU
morning rise	-10769 May 09 j 19:33	13°♒48'51	
	-10769 Jun 15 j 17:23	15°♒	
retrograde	-10769 Aug 04 j 14:10	15°♒41'28	
	-10769 Sep 25 j 00:15	15°℞♒	
opposition	-10769 Oct 20 j 12:41	14°♒19'03	-1°51'13
min. Earth dist.	-10769 Oct 21 j 10:59	14°♒17'29	29.06610 AU
direct	-10768 Jan 08 j 23:42	12°♒53'15	
evening set	-10768 Apr 09 j 09:17	14°♒50'32	
	-10768 Apr 13 j 16:59	15°♒	
max. Earth dist.	-10768 Apr 24 j 10:08	15°♒23'50	31.06788 AU
conjunction	-10768 Apr 25 j 10:29	15°♒26'06	-1°41'36
minimum elong	-10768 Apr 25 j 10:30	15°♒26'06	1°42'04
morning rise	-10768 May 11 j 07:43	16°♒01'21	
retrograde	-10768 Aug 05 j 23:33	17°♒53'51	
opposition	-10768 Oct 21 j 23:20	16°♒31'27	-1°46'05
min. Earth dist.	-10768 Oct 22 j 21:56	16°♒29'52	29.07233 AU
direct	-10767 Jan 10 j 13:14	15°♒05'39	
evening set	-10767 Apr 11 j 22:02	17°♒02'55	
conjunction	-10767 Apr 27 j 22:48	17°♒38'28	-1°36'44
minimum elong	-10767 Apr 27 j 22:48	17°♒38'28	1°37'10
max. Earth dist.	-10767 Apr 26 j 21:08	17°♒36'04	31.07468 AU
morning rise	-10767 May 13 j 19:50	18°♒13'41	
retrograde	-10767 Aug 08 j 11:08	20°♒06'05	
opposition	-10767 Oct 24 j 10:03	18°♒43'43	-1°40'48
min. Earth dist.	-10767 Oct 25 j 08:23	18°♒42'10	29.07965 AU
direct	-10766 Jan 13 j 01:06	17°♒17'55	
evening set	-10766 Apr 14 j 10:30	19°♒15'11	
max. Earth dist.	-10766 Apr 29 j 10:27	19°♒48'24	31.08262 AU
conjunction	-10766 Apr 30 j 11:07	19°♒50'42	-1°31'43
minimum elong	-10766 Apr 30 j 11:07	19°♒50'42	1°32'09
morning rise	-10766 May 16 j 07:36	20°♒25'54	
retrograde	-10766 Aug 10 j 20:48	22°♒18'13	
opposition	-10766 Oct 26 j 20:58	20°♒55'55	-1°35'22
min. Earth dist.	-10766 Oct 27 j 20:05	20°♒54'18	29.08809 AU
direct	-10765 Jan 15 j 13:26	19°♒30'08	
evening set	-10765 Apr 16 j 23:03	21°♒27'24	
conjunction	-10765 May 02 j 23:11	22°♒02'54	-1°26'33
minimum elong	-10765 May 02 j 23:11	22°♒02'54	1°26'58
max. Earth dist.	-10765 May 01 j 21:28	22°♒00'30	31.09186 AU
morning rise	-10765 May 18 j 19:29	22°♒38'04	
retrograde	-10765 Aug 13 j 09:28	24°♒30'20	
opposition	-10765 Oct 29 j 07:44	23°♒08'06	-1°29'47
min. Earth dist.	-10765 Oct 30 j 06:03	23°♒06'33	29.09781 AU
direct	-10764 Jan 18 j 02:52	21°♒42'22	
evening set	-10764 Apr 18 j 11:14	23°♒39'39	
max. Earth dist.	-10764 May 03 j 10:16	24°♒12'49	31.10205 AU
conjunction	-10764 May 04 j 11:12	24°♒15'08	-1°21'17
minimum elong	-10764 May 04 j 11:13	24°♒15'08	1°21'41
morning rise	-10764 May 20 j 07:00	24°♒50'16	
retrograde	-10764 Aug 14 j 20:05	26°♒42'29	
opposition	-10764 Oct 30 j 18:43	25°♒20'20	-1°24'05
min. Earth dist.	-10764 Oct 31 j 18:16	25°♒18'42	29.10822 AU
direct	-10763 Jan 19 j 15:19	23°♒54'40	
evening set	-10763 Apr 20 j 23:40	25°♒51'58	
conjunction	-10763 May 06 j 23:10	26°♒27'25	-1°15'52
minimum elong	-10763 May 06 j 23:11	26°♒27'25	1°16'14
max. Earth dist.	-10763 May 05 j 21:32	26°♒25'02	31.11272 AU
morning rise	-10763 May 22 j 18:42	27°♒02'33	
retrograde	-10763 Aug 17 j 06:53	28°♒54'42	
opposition	-10763 Nov 02 j 05:33	27°♒32'39	-1°18'15
min. Earth dist.	-10763 Nov 03 j 04:27	27°♒31'03	29.11872 AU
direct	-10762 Jan 22 j 04:31	26°♒07'02	
evening set	-10762 Apr 23 j 12:02	28°♒04'20	
max. Earth dist.	-10762 May 08 j 09:20	28°♒37'22	31.12306 AU
conjunction	-10762 May 09 j 11:12	28°♒39'47	-1°10'22
minimum elong	-10762 May 09 j 11:13	28°♒39'47	1°10'43
morning rise	-10762 May 25 j 06:14	29°♒14'52	
	-10762 Jun 16 j 04:34	0°♓	
retrograde	-10762 Aug 19 j 16:57	1°♓07'00	
	-10762 Oct 26 j 15:28	30°℞♒	
opposition	-10762 Nov 04 j 16:47	29°♒45'01	-1°12'18
min. Earth dist.	-10762 Nov 05 j 16:53	29°♒43'20	29.12879 AU
direct	-10761 Jan 24 j 15:47	28°♒19'28	
	-10761 Apr 18 j 04:53	0°♓	
evening set	-10761 Apr 26 j 00:12	0°♓16'44	
conjunction	-10761 May 11 j 22:59	0°♓52'10	-1°04'45
minimum elong	-10761 May 11 j 22:59	0°♓52'10	1°05'05
max. Earth dist.	-10761 May 10 j 21:02	0°♓49'44	31.13277 AU
morning rise	-10761 May 27 j 17:37	1°♓27'14	
retrograde	-10761 Aug 22 j 03:11	3°♓19'18	
opposition	-10761 Nov 07 j 03:58	1°♓57'23	-1°06'14
min. Earth dist.	-10761 Nov 08 j 03:54	1°♓55'43	29.13785 AU
direct	-10760 Jan 27 j 04:29	0°♓31'52	
evening set	-10760 Apr 27 j 12:29	2°♓29'07	
max. Earth dist.	-10760 May 12 j 07:50	3°♓01'59	31.14132 AU
conjunction	-10760 May 13 j 10:47	3°♓04'30	-0°59'02
minimum elong	-10760 May 13 j 10:48	3°♓04'30	0°59'22
morning rise	-10760 May 29 j 05:02	3°♓39'33	
retrograde	-10760 Aug 23 j 12:58	5°♓31'34	
opposition	-10760 Nov 08 j 15:03	4°♓09'40	-1°00'06
min. Earth dist.	-10760 Nov 09 j 15:43	4°♓07'58	29.14589 AU
direct	-10759 Jan 28 j 15:30	2°♓44'10	
evening set	-10759 Apr 30 j 00:35	4°♓41'23	
conjunction	-10759 May 15 j 22:36	5°♓16'45	-0°53'15
minimum elong	-10759 May 15 j 22:37	5°♓16'45	0°53'33
max. Earth dist.	-10759 May 14 j 20:11	5°♓14'17	31.14881 AU
morning rise	-10759 May 31 j 16:19	5°♓51'45	
retrograde	-10759 Aug 25 j 21:36	7°♓43'42	
opposition	-10759 Nov 11 j 02:20	6°♓21'50	-0°53'52
min. Earth dist.	-10759 Nov 12 j 03:24	6°♓20'06	29.15268 AU
direct	-10758 Jan 31 j 04:34	4°♓56'20	

Attention, astronomical year style is used: The year -10758 in astronomical counting style is the year 10759 BCE in historical counting style.

evening set	-10758 May 02 j 12:39	6°♓53'29	
max. Earth dist.	-10758 May 17 j 06:20	7°♓26'14	31.15524 AU
conjunction	-10758 May 18 j 10:03	7°♓28'49	-0°47'24
minimum elong	-10758 May 18 j 10:04	7°♓28'49	0°47'41
morning rise	-10758 Jun 03 j 03:27	8°♓03'48	
retrograde	-10758 Aug 28 j 08:44	9°♓55'41	
opposition	-10758 Nov 13 j 13:34	8°♓33'49	-0°47'35
min. Earth dist.	-10758 Nov 14 j 14:23	8°♓32'06	29.15876 AU
direct	-10757 Feb 02 j 15:37	7°♓08'18	
evening set	-10757 May 05 j 00:24	9°♓05'24	
conjunction	-10757 May 20 j 21:32	9°♓40'41	-0°41'29
minimum elong	-10757 May 20 j 21:32	9°♓40'41	0°41'44
max. Earth dist.	-10757 May 19 j 18:48	9°♓38'12	31.16109 AU
morning rise	-10757 Jun 05 j 14:20	10°♓15'38	
retrograde	-10757 Aug 30 j 17:53	12°♓07'28	
opposition	-10757 Nov 16 j 00:53	10°♓45'34	-0°41'13
min. Earth dist.	-10757 Nov 17 j 02:32	10°♓43'48	29.16441 AU
direct	-10756 Feb 05 j 04:07	9°♓20'04	
evening set	-10756 May 06 j 12:03	11°♓17'05	
max. Earth dist.	-10756 May 21 j 04:58	11°♓49'45	31.16683 AU
conjunction	-10756 May 22 j 08:35	11°♓52'20	-0°35'31
minimum elong	-10756 May 22 j 08:35	11°♓52'20	0°35'45
morning rise	-10756 Jun 07 j 01:07	12°♓27'14	
retrograde	-10756 Sep 01 j 05:45	14°♓19'01	
opposition	-10756 Nov 17 j 12:04	12°♓57'06	-0°34'49
min. Earth dist.	-10756 Nov 18 j 12:46	12°♓55'24	29.17020 AU
direct	-10755 Feb 06 j 17:44	11°♓31'35	
evening set	-10755 May 08 j 23:33	13°♓28'32	
conjunction	-10755 May 24 j 19:42	14°♓03'46	-0°29'30
minimum elong	-10755 May 24 j 19:43	14°♓03'46	0°29'42
max. Earth dist.	-10755 May 23 j 17:08	14°♓01'17	31.17280 AU
morning rise	-10755 Jun 09 j 11:35	14°♓38'37	
retrograde	-10755 Sep 03 j 15:33	16°♓30'21	
opposition	-10755 Nov 19 j 23:25	15°♓08'26	-0°28'22
min. Earth dist.	-10755 Nov 21 j 00:55	15°♓06'41	29.17653 AU
direct	-10754 Feb 09 j 06:14	13°♓42'56	
evening set	-10754 May 11 j 11:04	15°♓39'50	
max. Earth dist.	-10754 May 26 j 03:57	16°♓12'31	31.17967 AU
conjunction	-10754 May 27 j 06:36	16°♓15'01	-0°23'26
minimum elong	-10754 May 27 j 06:36	16°♓15'01	0°23'38
morning rise	-10754 Jun 11 j 22:06	16°♓49'50	
retrograde	-10754 Sep 06 j 02:13	18°♓41'32	
opposition	-10754 Nov 22 j 10:47	17°♓19'38	-0°21'52
min. Earth dist.	-10754 Nov 23 j 10:53	17°♓17'59	29.18383 AU
direct	-10753 Feb 11 j 19:38	15°♓54'10	
evening set	-10753 May 13 j 22:17	17°♓51'01	
conjunction	-10753 May 29 j 17:20	18°♓26'09	-0°17'22
minimum elong	-10753 May 29 j 17:20	18°♓26'09	0°17'32
max. Earth dist.	-10753 May 28 j 15:10	18°♓23'43	31.18750 AU
morning rise	-10753 Jun 14 j 08:17	19°♓00'57	
retrograde	-10753 Sep 08 j 12:28	20°♓52'39	
opposition	-10753 Nov 24 j 22:16	19°♓30'46	-0°15'21
min. Earth dist.	-10753 Nov 25 j 22:50	19°♓29'05	29.19224 AU
direct	-10752 Feb 14 j 07:22	18°♓05'23	
evening set	-10752 May 15 j 09:32	20°♓02'11	
max. Earth dist.	-10752 May 30 j 02:35	20°♓34'54	31.19643 AU
conjunction	-10752 May 31 j 04:06	20°♓37'17	-0°11'15
minimum elong	-10752 May 31 j 04:05	20°♓37'17	0°11'25
behind sun begin	-10752 May 30 j 23:23	20°♓36'52	
behind sun end	-10752 May 31 j 08:48	20°♓37'42	
morning rise	-10752 Jun 15 j 18:33	21°♓12'03	
retrograde	-10752 Sep 09 j 22:21	23°♓03'45	
opposition	-10752 Nov 26 j 09:33	21°♓41'56	-0°08'48
min. Earth dist.	-10752 Nov 27 j 09:22	21°♓40'18	29.20135 AU
direct	-10751 Feb 15 j 20:24	20°♓16'36	
evening set	-10751 May 17 j 20:51	22°♓13'24	
conjunction	-10751 Jun 02 j 14:46	22°♓48'28	-0°05'09
minimum elong	-10751 Jun 02 j 14:46	22°♓48'28	0°05'17
behind sun begin	-10751 Jun 02 j 08:31	22°♓47'54	
behind sun end	-10751 Jun 02 j 21:02	22°♓49'02	
max. Earth dist.	-10751 Jun 01 j 12:57	22°♓46'03	31.20578 AU
morning rise	-10751 Jun 18 j 04:47	23°♓23'12	
retrograde	-10751 Sep 12 j 08:32	25°♓14'56	
opposition	-10751 Nov 28 j 21:08	23°♓53'10	-0°02'14
min. Earth dist.	-10751 Nov 29 j 21:03	23°♓51'32	29.21083 AU
direct	-10750 Feb 18 j 07:01	22°♓27'56	
asc. node	-10750 Apr 01 j 19:17	22°♓56'23	
evening set	-10750 May 20 j 07:54	24°♓24'42	
max. Earth dist.	-10750 Jun 04 j 00:45	24°♓57'26	31.21513 AU
conjunction	-10750 Jun 05 j 01:24	24°♓59'44	0°01'06
minimum elong	-10750 Jun 05 j 01:22	24°♓59'44	0°00'59
behind sun begin	-10750 Jun 04 j 18:55	24°♓59'10	
behind sun end	-10750 Jun 05 j 07:49	25°♓00'19	
morning rise	-10750 Jun 20 j 14:44	25°♓34'26	
retrograde	-10750 Sep 14 j 17:18	27°♓26'13	
opposition	-10750 Dec 01 j 08:53	26°♓04'30	0°04'20
min. Earth dist.	-10750 Dec 02 j 08:48	26°♓02'52	29.21983 AU
direct	-10749 Feb 20 j 19:23	24°♓39'22	
evening set	-10749 May 22 j 19:09	26°♓36'06	
max. Earth dist.	-10749 Jun 06 j 10:19	27°♓08'42	31.22377 AU
conjunction	-10749 Jun 07 j 11:53	27°♓11'06	0°07'16
minimum elong	-10749 Jun 07 j 11:53	27°♓11'06	0°07'11
behind sun begin	-10749 Jun 07 j 05:55	27°♓10'34	
behind sun end	-10749 Jun 07 j 17:50	27°♓11'38	
morning rise	-10749 Jun 23 j 00:51	27°♓45'46	
retrograde	-10749 Sep 17 j 04:48	29°♓37'36	
opposition	-10749 Dec 03 j 20:34	28°♓15'55	0°10'53
min. Earth dist.	-10749 Dec 04 j 19:57	28°♓14'19	29.22807 AU
direct	-10748 Feb 23 j 05:27	26°♓50'50	
evening set	-10748 May 24 j 06:09	28°♓47'33	
conjunction	-10748 Jun 08 j 22:28	29°♓22'30	0°13'22
minimum elong	-10748 Jun 08 j 22:28	29°♓22'30	0°13'18
behind sun begin	-10748 Jun 08 j 18:42	29°♓22'10	
behind sun end	-10748 Jun 09 j 02:14	29°♓22'51	
max. Earth dist.	-10748 Jun 07 j 21:58	29°♓20'13	31.23129 AU
morning rise	-10748 Jun 24 j 10:45	29°♓57'09	
	-10748 Jun 25 j 18:04	0°♈	
retrograde	-10748 Sep 18 j 14:14	1°♈49'01	
opposition	-10748 Dec 05 j 08:29	0°♈27'22	0°17'26
min. Earth dist.	-10748 Dec 06 j 08:40	0°♈25'42	29.23487 AU
	-10748 Dec 22 j 07:55	30°℞♓	
direct	-10747 Feb 24 j 17:38	29°♓02'21	
	-10747 Apr 27 j 06:44	0°♈	
evening set	-10747 May 26 j 17:19	0°♈59'01	
max. Earth dist.	-10747 Jun 10 j 07:26	1°♈31'33	31.23740 AU
conjunction	-10747 Jun 11 j 08:51	1°♈33'56	0°19'28
minimum elong	-10747 Jun 11 j 08:50	1°♈33'56	0°19'26
morning rise	-10747 Jun 26 j 20:43	2°♈08'32	
retrograde	-10747 Sep 21 j 02:18	4°♈00'27	
opposition	-10747 Dec 07 j 20:17	2°♈38'47	0°23'57
min. Earth dist.	-10747 Dec 08 j 19:31	2°♈37'12	29.24026 AU
direct	-10746 Feb 27 j 06:29	1°♈13'49	

Attention, astronomical year style is used: The year -10746 in astronomical counting style is the year 10747 BCE in historical counting style.

evening set	-10746 May 29 j 04:16	3°♈10'26	
conjunction	-10746 Jun 13 j 19:19	3°♈45'18	0°25'32
minimum elong	-10746 Jun 13 j 19:19	3°♈45'18	0°25'31
max. Earth dist.	-10746 Jun 12 j 18:47	3°♈43'00	31.24205 AU
morning rise	-10746 Jun 29 j 06:30	4°♈19'52	
retrograde	-10746 Sep 23 j 12:39	6°♈11'49	
opposition	-10746 Dec 10 j 08:23	4°♈50'08	0°30'25
min. Earth dist.	-10746 Dec 11 j 08:29	4°♈48'29	29.24435 AU
direct	-10745 Mar 01 j 18:21	3°♈25'12	
evening set	-10745 May 31 j 15:02	5°♈21'44	
max. Earth dist.	-10745 Jun 15 j 04:48	5°♈54'15	31.24564 AU
conjunction	-10745 Jun 16 j 05:24	5°♈56'34	0°31'34
minimum elong	-10745 Jun 16 j 05:24	5°♈56'34	0°31'34
morning rise	-10745 Jul 01 j 16:10	6°♈31'05	
retrograde	-10745 Sep 25 j 23:21	8°♈23'04	
opposition	-10745 Dec 12 j 20:15	7°♈01'21	0°36'50
min. Earth dist.	-10745 Dec 13 j 19:07	6°♈59'48	29.24742 AU
direct	-10744 Mar 03 j 07:57	5°♈36'26	
evening set	-10744 Jun 02 j 01:45	7°♈32'54	
conjunction	-10744 Jun 17 j 15:32	8°♈07'41	0°37'33
minimum elong	-10744 Jun 17 j 15:31	8°♈07'41	0°37'34
max. Earth dist.	-10744 Jun 16 j 15:13	8°♈05'24	31.24831 AU
morning rise	-10744 Jul 03 j 01:42	8°♈42'10	
retrograde	-10744 Sep 27 j 10:02	10°♈34'10	
opposition	-10744 Dec 14 j 08:07	9°♈12'25	0°43'12
min. Earth dist.	-10744 Dec 15 j 07:28	9°♈10'49	29.25000 AU
direct	-10743 Mar 05 j 20:32	7°♈47'31	
evening set	-10743 Jun 04 j 12:19	9°♈43'54	
max. Earth dist.	-10743 Jun 19 j 02:08	10°♈16'26	31.25082 AU
conjunction	-10743 Jun 20 j 01:30	10°♈18'38	0°43'28
minimum elong	-10743 Jun 20 j 01:29	10°♈18'38	0°43'31
morning rise	-10743 Jul 05 j 11:06	10°♈53'04	
retrograde	-10743 Sep 29 j 19:53	12°♈45'06	
opposition	-10743 Dec 16 j 20:08	11°♈23'18	0°49'30
min. Earth dist.	-10743 Dec 17 j 18:22	11°♈21'47	29.25254 AU
direct	-10742 Mar 08 j 10:41	9°♈58'26	
evening set	-10742 Jun 06 j 22:45	11°♈54'44	
max. Earth dist.	-10742 Jun 21 j 11:52	12°♈27'14	31.25355 AU
conjunction	-10742 Jun 22 j 11:09	12°♈29'25	0°49'19
minimum elong	-10742 Jun 22 j 11:09	12°♈29'25	0°49'23
morning rise	-10742 Jul 07 j 20:16	13°♈03'49	
retrograde	-10742 Oct 02 j 05:30	14°♈55'55	
opposition	-10742 Dec 19 j 08:13	13°♈34'04	0°55'43
min. Earth dist.	-10742 Dec 20 j 05:57	13°♈32'35	29.25578 AU
direct	-10741 Mar 10 j 21:39	12°♈09'13	
evening set	-10741 Jun 09 j 09:03	14°♈05'27	
conjunction	-10741 Jun 24 j 20:57	14°♈40'05	0°55'06
minimum elong	-10741 Jun 24 j 20:57	14°♈40'05	0°55'11
max. Earth dist.	-10741 Jun 23 j 23:27	14°♈38'04	31.25715 AU
morning rise	-10741 Jul 10 j 05:23	15°♈14'27	
retrograde	-10741 Oct 04 j 13:31	17°♈06'36	
opposition	-10741 Dec 21 j 20:13	15°♈44'45	1°01'51
min. Earth dist.	-10741 Dec 22 j 17:18	15°♈43'19	29.25983 AU
direct	-10740 Mar 12 j 10:25	14°♈19'57	
evening set	-10740 Jun 10 j 19:23	16°♈16'07	
max. Earth dist.	-10740 Jun 25 j 08:43	16°♈48'40	31.26166 AU
conjunction	-10740 Jun 26 j 06:31	16°♈50'43	1°00'48
minimum elong	-10740 Jun 26 j 06:30	16°♈50'43	1°00'55
morning rise	-10740 Jul 11 j 14:34	17°♈25'02	
retrograde	-10740 Oct 06 j 00:51	19°♈17'16	
opposition	-10740 Dec 23 j 08:14	17°♈55'24	1°07'54
min. Earth dist.	-10740 Dec 24 j 04:01	17°♈54'04	29.26481 AU
direct	-10739 Mar 14 j 20:34	16°♈30'41	
evening set	-10739 Jun 13 j 05:30	18°♈26'48	
conjunction	-10739 Jun 28 j 16:08	19°♈01'21	1°06'25
minimum elong	-10739 Jun 28 j 16:08	19°♈01'21	1°06'34
max. Earth dist.	-10739 Jun 27 j 20:07	18°♈59'28	31.26685 AU
morning rise	-10739 Jul 13 j 23:28	19°♈35'39	
retrograde	-10739 Oct 08 j 09:45	21°♈27'59	
opposition	-10739 Dec 25 j 20:30	20°♈06'07	1°13'52
min. Earth dist.	-10739 Dec 26 j 16:25	20°♈04'46	29.27021 AU
direct	-10738 Mar 17 j 08:31	18°♈41'29	
evening set	-10738 Jun 15 j 15:48	20°♈37'33	
max. Earth dist.	-10738 Jun 30 j 05:28	21°♈10'10	31.27237 AU
conjunction	-10738 Jul 01 j 01:38	21°♈12'03	1°11'56
minimum elong	-10738 Jul 01 j 01:37	21°♈12'03	1°12'06
morning rise	-10738 Jul 16 j 08:35	21°♈46'19	
retrograde	-10738 Oct 10 j 21:33	23°♈38'45	
opposition	-10738 Dec 28 j 08:44	22°♈16'54	1°19'43
min. Earth dist.	-10738 Dec 29 j 03:06	22°♈15'39	29.27570 AU
direct	-10737 Mar 19 j 19:32	20°♈52'21	
evening set	-10737 Jun 18 j 01:49	22°♈48'22	
conjunction	-10737 Jul 03 j 11:08	23°♈22'50	1°17'21
minimum elong	-10737 Jul 03 j 11:07	23°♈22'50	1°17'33
max. Earth dist.	-10737 Jul 02 j 16:14	23°♈21'03	31.27749 AU
morning rise	-10737 Jul 18 j 17:26	23°♈57'04	
retrograde	-10737 Oct 13 j 08:02	25°♈49'37	
opposition	-10737 Dec 30 j 21:10	24°♈27'45	1°25'27
min. Earth dist.	-10737 Dec 31 j 16:08	24°♈26'28	29.28056 AU
direct	-10736 Mar 21 j 06:00	23°♈03'17	
evening set	-10736 Jun 19 j 12:03	24°♈59'16	
conjunction	-10736 Jul 04 j 20:40	25°♈33'40	1°22'40
minimum elong	-10736 Jul 04 j 20:39	25°♈33'40	1°22'52
max. Earth dist.	-10736 Jul 04 j 01:59	25°♈31'55	31.28182 AU
morning rise	-10736 Jul 20 j 02:29	26°♈07'52	
retrograde	-10736 Oct 14 j 19:20	28°♈00'31	
opposition	-10735 Jan 01 j 09:24	26°♈38'39	1°31'03
min. Earth dist.	-10735 Jan 02 j 02:56	26°♈37'28	29.28430 AU
direct	-10735 Mar 23 j 19:09	25°♈14'14	
evening set	-10735 Jun 21 j 22:14	27°♈10'10	
max. Earth dist.	-10735 Jul 06 j 11:46	27°♈42'48	31.28478 AU
conjunction	-10735 Jul 07 j 06:12	27°♈44'32	1°27'51
minimum elong	-10735 Jul 07 j 06:11	27°♈44'32	1°28'05
morning rise	-10735 Jul 22 j 11:29	28°♈18'41	
	-10735 Sep 21 j 06:28	0°♉	
retrograde	-10735 Oct 17 j 07:06	0°♉11'27	
	-10735 Nov 12 j 19:15	30°℞♈	
opposition	-10734 Jan 03 j 22:01	28°♈49'32	1°36'32
min. Earth dist.	-10734 Jan 04 j 15:55	28°♈48'20	29.28675 AU
direct	-10734 Mar 26 j 07:12	27°♈25'11	
evening set	-10734 Jun 24 j 08:13	29°♈21'03	
conjunction	-10734 Jul 09 j 15:36	29°♈55'22	1°32'55
minimum elong	-10734 Jul 09 j 15:35	29°♈55'22	1°33'09
max. Earth dist.	-10734 Jul 08 j 22:12	29°♈53'44	31.28647 AU
	-10734 Jul 11 j 16:46	0°♉	
morning rise	-10734 Jul 24 j 20:20	0°♉29'29	
retrograde	-10734 Oct 19 j 17:25	2°♉22'21	
opposition	-10733 Jan 06 j 10:37	1°♉00'24	1°41'53
min. Earth dist.	-10733 Jan 07 j 03:27	0°♉59'15	29.28771 AU
	-10733 Feb 16 j 22:25	30°℞♈	
direct	-10733 Mar 28 j 21:09	29°♈36'05	

Attention, astronomical year style is used: The year -10733 in astronomical counting style is the year 10734 BCE in historical counting style.

	-10733 May 06 j 13:11	0°♉		
evening set	-10733 Jun 26 j 18:17	1°♉31'51		
max. Earth dist.	-10733 Jul 11 j 07:18	2°♉04'28	31.28673 AU	
conjunction	-10733 Jul 12 j 00:58	2°♉06'08	1°37'51	
minimum elong	-10733 Jul 12 j 00:57	2°♉06'08	1°38'07	
morning rise	-10733 Jul 27 j 05:19	2°♉40'13		
retrograde	-10733 Oct 22 j 03:56	4°♉33'10		
opposition	-10732 Jan 08 j 23:03	3°♉11'09	1°47'04	
min. Earth dist.	-10732 Jan 09 j 15:38	3°♉10'02	29.28757 AU	
direct	-10732 Mar 30 j 08:15	1°♉46'52		
evening set	-10732 Jun 28 j 04:04	3°♉42'33		
conjunction	-10732 Jul 13 j 10:19	4°♉16'47	1°42'38	
minimum elong	-10732 Jul 13 j 10:18	4°♉16'47	1°42'55	
max. Earth dist.	-10732 Jul 12 j 18:17	4°♉15'16	31.28599 AU	
morning rise	-10732 Jul 28 j 14:04	4°♉50'50		
retrograde	-10732 Oct 23 j 12:26	6°♉43'52		
opposition	-10731 Jan 10 j 11:38	5°♉21'47	1°52'07	
min. Earth dist.	-10731 Jan 11 j 03:41	5°♉20'42	29.28643 AU	
direct	-10731 Apr 01 j 21:51	3°♉57'31		
evening set	-10731 Jun 30 j 13:50	5°♉53'06		
conjunction	-10731 Jul 15 j 19:19	6°♉27'18	1°47'16	
minimum elong	-10731 Jul 15 j 19:18	6°♉27'18	1°47'35	
max. Earth dist.	-10731 Jul 15 j 03:04	6°♉25'46	31.28462 AU	
morning rise	-10731 Jul 30 j 22:46	7°♉01'19		
retrograde	-10731 Oct 25 j 23:46	8°♉54'27		
opposition	-10730 Jan 13 j 00:12	7°♉32'18	1°56'59	
min. Earth dist.	-10730 Jan 13 j 14:50	7°♉31'18	29.28512 AU	
direct	-10730 Apr 04 j 08:51	6°♉08'03		
evening set	-10730 Jul 02 j 23:23	8°♉03'33		
conjunction	-10730 Jul 18 j 04:27	8°♉37'41	1°51'44	
minimum elong	-10730 Jul 18 j 04:26	8°♉37'41	1°52'04	
max. Earth dist.	-10730 Jul 17 j 14:09	8°♉36'20	31.28327 AU	
morning rise	-10730 Aug 02 j 07:17	9°♉11'41		
retrograde	-10730 Oct 28 j 08:28	11°♉04'56		
opposition	-10729 Jan 15 j 12:54	9°♉42'42	2°01'41	
min. Earth dist.	-10729 Jan 16 j 03:16	9°♉41'43	29.28414 AU	
direct	-10729 Apr 06 j 20:56	8°♉18'29		
evening set	-10729 Jul 05 j 08:55	10°♉13'53		
conjunction	-10729 Jul 20 j 13:18	10°♉48'00	1°56'03	
minimum elong	-10729 Jul 20 j 13:17	10°♉48'00	1°56'24	
max. Earth dist.	-10729 Jul 19 j 23:21	10°♉46'40	31.28265 AU	
morning rise	-10729 Aug 04 j 15:52	11°♉21'57		
retrograde	-10729 Oct 30 j 19:49	13°♉15'19		
opposition	-10728 Jan 18 j 01:25	11°♉53'02	2°06'13	
min. Earth dist.	-10728 Jan 18 j 13:42	11°♉52'12	29.28403 AU	
direct	-10728 Apr 08 j 07:34	10°♉28'52		
evening set	-10728 Jul 06 j 18:23	12°♉24'13		
conjunction	-10728 Jul 21 j 22:18	12°♉58'17	2°00'12	
minimum elong	-10728 Jul 21 j 22:17	12°♉58'17	2°00'34	
max. Earth dist.	-10728 Jul 21 j 09:55	12°♉57'07	31.28288 AU	
morning rise	-10728 Aug 06 j 00:20	13°♉32'13		
	-10728 Sep 22 j 23:49	15°♉		
retrograde	-10728 Nov 01 j 06:15	15°♉25'44		
	-10728 Dec 12 j 01:53	15°℞♉		
opposition	-10727 Jan 19 j 14:02	14°♉03'24	2°10'33	
min. Earth dist.	-10727 Jan 20 j 02:16	14°♉02'35	29.28489 AU	
direct	-10727 Apr 10 j 17:09	12°♉39'19		
evening set	-10727 Jul 09 j 03:52	14°♉34'36		
	-10727 Jul 20 j 11:46	15°♉		
conjunction	-10727 Jul 24 j 07:14	15°♉08'38	2°04'11	
minimum elong	-10727 Jul 24 j 07:13	15°♉08'38	2°04'34	
max. Earth dist.	-10727 Jul 23 j 19:54	15°♉07'34	31.28424 AU	
morning rise	-10727 Aug 08 j 08:54	15°♉42'33		
retrograde	-10727 Nov 03 j 17:52	17°♉36'12		
opposition	-10726 Jan 22 j 02:43	16°♉13'52	2°14'43	
min. Earth dist.	-10726 Jan 22 j 12:46	16°♉13'12	29.28664 AU	
	-10726 Mar 18 j 19:35	15°℞♉		
direct	-10726 Apr 13 j 05:40	14°♉49'52		
	-10726 May 08 j 05:40	15°♉		
evening set	-10726 Jul 11 j 13:11	16°♉45'07		
conjunction	-10726 Jul 26 j 16:02	17°♉19'07	2°07'59	
minimum elong	-10726 Jul 26 j 16:00	17°♉19'07	2°08'23	
max. Earth dist.	-10726 Jul 26 j 05:28	17°♉18'07	31.28620 AU	
morning rise	-10726 Aug 10 j 17:23	17°♉53'01		
retrograde	-10726 Nov 06 j 06:39	19°♉46'50		
opposition	-10725 Jan 24 j 15:35	18°♉24'29	2°18'41	
min. Earth dist.	-10725 Jan 25 j 01:27	18°♉23'49	29.28892 AU	
direct	-10725 Apr 15 j 16:36	17°♉00'35		
evening set	-10725 Jul 13 j 22:34	18°♉55'47		
conjunction	-10725 Jul 29 j 01:02	19°♉29'46	2°11'36	
minimum elong	-10725 Jul 29 j 01:01	19°♉29'46	2°12'01	
max. Earth dist.	-10725 Jul 28 j 16:04	19°♉28'55	31.28842 AU	
morning rise	-10725 Aug 13 j 01:58	20°♉03'38		
retrograde	-10725 Nov 08 j 17:39	21°♉57'36		
opposition	-10724 Jan 27 j 04:14	20°♉35'15	2°22'27	
min. Earth dist.	-10724 Jan 27 j 12:45	20°♉34'41	29.29099 AU	
direct	-10724 Apr 17 j 05:20	19°♉11'27		
evening set	-10724 Jul 15 j 08:06	21°♉06'37		
conjunction	-10724 Jul 30 j 09:57	21°♉40'33	2°15'02	
minimum elong	-10724 Jul 30 j 09:56	21°♉40'33	2°15'28	
max. Earth dist.	-10724 Jul 30 j 00:55	21°♉39'42	31.29015 AU	
morning rise	-10724 Aug 14 j 10:41	22°♉14'25		
retrograde	-10724 Nov 10 j 05:16	24°♉08'33		
opposition	-10723 Jan 28 j 17:10	22°♉46'10	2°26'02	
min. Earth dist.	-10723 Jan 29 j 01:10	22°♉45'38	29.29249 AU	
direct	-10723 Apr 19 j 16:05	21°♉22'27		
evening set	-10723 Jul 17 j 17:24	23°♉17'34		
conjunction	-10723 Aug 01 j 18:58	23°♉51'29	2°18'17	
minimum elong	-10723 Aug 01 j 18:57	23°♉51'29	2°18'44	
max. Earth dist.	-10723 Aug 01 j 11:46	23°♉50'48	31.29100 AU	
morning rise	-10723 Aug 16 j 19:13	24°♉25'19		
retrograde	-10723 Nov 12 j 15:01	26°♉19'36		
opposition	-10722 Jan 31 j 06:15	24°♉57'12	2°29'23	
min. Earth dist.	-10722 Jan 31 j 13:38	24°♉56'42	29.29276 AU	
direct	-10722 Apr 22 j 06:01	23°♉33'34		
evening set	-10722 Jul 20 j 02:59	25°♉28'36		
conjunction	-10722 Aug 04 j 03:57	26°♉02'29	2°21'20	
minimum elong	-10722 Aug 04 j 03:56	26°♉02'29	2°21'47	
max. Earth dist.	-10722 Aug 03 j 20:23	26°♉01'46	31.29062 AU	
morning rise	-10722 Aug 19 j 04:07	26°♉36'18		
retrograde	-10722 Nov 15 j 03:35	28°♉30'44		
opposition	-10721 Feb 02 j 19:13	27°♉08'17	2°32'32	
min. Earth dist.	-10721 Feb 03 j 01:21	27°♉07'52	29.29183 AU	
direct	-10721 Apr 24 j 17:12	25°♉44'41		
evening set	-10721 Jul 22 j 12:17	27°♉39'38		
conjunction	-10721 Aug 06 j 13:04	28°♉13'30	2°24'10	
minimum elong	-10721 Aug 06 j 13:03	28°♉13'30	2°24'39	
max. Earth dist.	-10721 Aug 06 j 07:00	28°♉12'55	31.28882 AU	
morning rise	-10721 Aug 21 j 12:52	28°♉47'19		
	-10721 Sep 27 j 18:44	0°♊		
retrograde	-10721 Nov 17 j 12:18	0°♊41'51		

Attention, astronomical year style is used: The year -10720 in astronomical counting style is the year 10721 BCE in historical counting style.

	-10720 Jan 09 j 23:57	30°℞♉	
opposition	-10720 Feb 05 j 08:19	29°♉19'20	2°35'28
min. Earth dist.	-10720 Feb 05 j 14:32	29°♉18'55	29.28937 AU
direct	-10720 Apr 26 j 05:30	27°♉55'47	
evening set	-10720 Jul 23 j 21:41	29°♉50'37	
	-10720 Jul 28 j 02:43	0°♊	
conjunction	-10720 Aug 07 j 22:00	0°♊24'27	2°26'48
minimum elong	-10720 Aug 07 j 21:59	0°♊24'27	2°27'18
max. Earth dist.	-10720 Aug 07 j 16:01	0°♊23'53	31.28573 AU
morning rise	-10720 Aug 22 j 21:42	0°♊58'15	
retrograde	-10720 Nov 18 j 23:21	2°♊52'55	
opposition	-10719 Feb 06 j 21:12	1°♊30'19	2°38'11
min. Earth dist.	-10719 Feb 07 j 01:43	1°♊30'00	29.28574 AU
direct	-10719 Apr 28 j 16:39	0°♊06'46	
evening set	-10719 Jul 26 j 06:56	2°♊01'30	
conjunction	-10719 Aug 10 j 07:00	2°♊35'19	2°29'14
minimum elong	-10719 Aug 10 j 06:59	2°♊35'19	2°29'45
max. Earth dist.	-10719 Aug 10 j 02:14	2°♊34'52	31.28157 AU
morning rise	-10719 Aug 25 j 06:28	3°♊09'06	
retrograde	-10719 Nov 21 j 09:54	5°♊03'53	
opposition	-10718 Feb 09 j 10:23	3°♊41'10	2°40'40
min. Earth dist.	-10718 Feb 09 j 15:02	3°♊40'52	29.28141 AU
direct	-10718 May 01 j 02:56	2°♊17'38	
evening set	-10718 Jul 28 j 15:59	4°♊12'15	
conjunction	-10718 Aug 12 j 15:46	4°♊46'02	2°31'27
minimum elong	-10718 Aug 12 j 15:46	4°♊46'02	2°31'58
max. Earth dist.	-10718 Aug 12 j 12:10	4°♊45'42	31.27711 AU
morning rise	-10718 Aug 27 j 15:08	5°♊19'49	
retrograde	-10718 Nov 23 j 21:18	7°♊14'42	
opposition	-10717 Feb 11 j 23:21	5°♊51'54	2°42'55
min. Earth dist.	-10717 Feb 12 j 01:52	5°♊51'44	29.27696 AU
direct	-10717 May 03 j 15:24	4°♊28'22	
evening set	-10717 Jul 31 j 01:08	6°♊22'53	
conjunction	-10717 Aug 15 j 00:37	6°♊56'39	2°33'27
minimum elong	-10717 Aug 15 j 00:36	6°♊56'38	2°33'58
max. Earth dist.	-10717 Aug 14 j 21:38	6°♊56'22	31.27271 AU
morning rise	-10717 Aug 29 j 23:56	7°♊30'25	
retrograde	-10717 Nov 26 j 09:44	9°♊25'25	
opposition	-10716 Feb 14 j 12:17	8°♊02'31	2°44'56
min. Earth dist.	-10716 Feb 14 j 14:27	8°♊02'22	29.27301 AU
direct	-10716 May 05 j 01:32	6°♊39'01	
evening set	-10716 Aug 01 j 10:09	8°♊33'26	
conjunction	-10716 Aug 16 j 09:31	9°♊07'11	2°35'13
minimum elong	-10716 Aug 16 j 09:30	9°♊07'11	2°35'45
max. Earth dist.	-10716 Aug 16 j 08:28	9°♊07'05	31.26910 AU
morning rise	-10716 Aug 31 j 08:37	9°♊40'57	
retrograde	-10716 Nov 27 j 20:40	11°♊36'05	
opposition	-10715 Feb 16 j 01:16	10°♊13'07	2°46'43
min. Earth dist.	-10715 Feb 16 j 01:35	10°♊13'06	29.26981 AU
direct	-10715 May 07 j 13:46	8°♊49'40	
evening set	-10715 Aug 03 j 19:09	10°♊44'00	
conjunction	-10715 Aug 18 j 18:10	11°♊17'44	2°36'47
minimum elong	-10715 Aug 18 j 18:10	11°♊17'44	2°37'20
max. Earth dist.	-10715 Aug 18 j 17:28	11°♊17'40	31.26634 AU
morning rise	-10715 Sep 02 j 17:24	11°♊51'31	
retrograde	-10715 Nov 30 j 09:11	13°♊46'47	
opposition	-10714 Feb 18 j 14:25	12°♊23'46	2°48'16
min. Earth dist.	-10714 Feb 18 j 13:42	12°♊23'49	29.26759 AU
direct	-10714 May 10 j 00:23	11°♊00'23	
evening set	-10714 Aug 06 j 04:06	12°♊54'40	
conjunction	-10714 Aug 21 j 03:09	13°♊28'24	2°38'06
minimum elong	-10714 Aug 21 j 03:08	13°♊28'24	2°38'40
max. Earth dist.	-10714 Aug 21 j 04:42	13°♊28'32	31.26442 AU
morning rise	-10714 Sep 05 j 02:13	14°♊02'10	
retrograde	-10714 Dec 02 j 19:59	15°♊57'36	
opposition	-10713 Feb 21 j 03:27	14°♊34'33	2°49'34
min. Earth dist.	-10713 Feb 21 j 01:45	14°♊34'40	29.26592 AU
direct	-10713 May 12 j 13:28	13°♊11'15	
evening set	-10713 Aug 08 j 13:10	15°♊05'28	
conjunction	-10713 Aug 23 j 11:58	15°♊39'12	2°39'13
minimum elong	-10713 Aug 23 j 11:57	15°♊39'12	2°39'47
max. Earth dist.	-10713 Aug 23 j 13:34	15°♊39'21	31.26293 AU
morning rise	-10713 Sep 07 j 11:14	16°♊12'59	
retrograde	-10713 Dec 05 j 09:13	18°♊08'35	
opposition	-10712 Feb 23 j 16:32	16°♊45'31	2°50'37
min. Earth dist.	-10712 Feb 23 j 13:17	16°♊45'44	29.26448 AU
direct	-10712 May 14 j 00:10	15°♊22'18	
evening set	-10712 Aug 09 j 22:08	17°♊16'28	
conjunction	-10712 Aug 24 j 20:57	17°♊50'12	2°40'05
minimum elong	-10712 Aug 24 j 20:57	17°♊50'12	2°40'39
max. Earth dist.	-10712 Aug 25 j 00:17	17°♊50'31	31.26122 AU
morning rise	-10712 Sep 08 j 20:08	18°♊24'00	
retrograde	-10712 Dec 06 j 18:52	20°♊19'45	
opposition	-10711 Feb 25 j 05:45	18°♊56'40	2°51'26
min. Earth dist.	-10711 Feb 25 j 02:24	18°♊56'54	29.26253 AU
direct	-10711 May 16 j 12:03	17°♊33'33	
evening set	-10711 Aug 12 j 07:19	19°♊27'39	
conjunction	-10711 Aug 27 j 06:00	20°♊01'23	2°40'43
minimum elong	-10711 Aug 27 j 06:00	20°♊01'23	2°41'18
max. Earth dist.	-10711 Aug 27 j 09:42	20°♊01'44	31.25899 AU
morning rise	-10711 Sep 11 j 05:22	20°♊35'12	
retrograde	-10711 Dec 09 j 06:57	22°♊31'08	
opposition	-10710 Feb 27 j 18:57	21°♊08'01	2°52'00
min. Earth dist.	-10710 Feb 27 j 13:50	21°♊08'22	29.25983 AU
direct	-10710 May 18 j 22:56	19°♊44'58	
evening set	-10710 Aug 14 j 16:26	21°♊39'00	
conjunction	-10710 Aug 29 j 15:08	22°♊12'45	2°41'08
minimum elong	-10710 Aug 29 j 15:08	22°♊12'45	2°41'43
max. Earth dist.	-10710 Aug 29 j 19:46	22°♊13'11	31.25558 AU
morning rise	-10710 Sep 13 j 14:38	22°♊46'35	
retrograde	-10710 Dec 11 j 18:20	24°♊42'40	
opposition	-10709 Mar 02 j 08:19	23°♊19'31	2°52'18
min. Earth dist.	-10709 Mar 02 j 03:36	23°♊19'50	29.25582 AU
direct	-10709 May 21 j 08:58	21°♊56'31	
evening set	-10709 Aug 17 j 01:41	23°♊50'29	
conjunction	-10709 Sep 01 j 00:28	24°♊24'14	2°41'19
minimum elong	-10709 Sep 01 j 00:28	24°♊24'14	2°41'54
max. Earth dist.	-10709 Sep 01 j 05:56	24°♊24'45	31.25087 AU
morning rise	-10709 Sep 16 j 00:04	24°♊58'05	
retrograde	-10709 Dec 14 j 06:17	26°♊54'18	
opposition	-10708 Mar 03 j 21:21	25°♊31'05	2°52'23
min. Earth dist.	-10708 Mar 03 j 14:57	25°♊31'31	29.25029 AU
direct	-10708 May 22 j 20:58	24°♊08'07	
evening set	-10708 Aug 18 j 10:56	26°♊02'01	
conjunction	-10708 Sep 02 j 09:41	26°♊35'46	2°41'16
minimum elong	-10708 Sep 02 j 09:41	26°♊35'46	2°41'51
max. Earth dist.	-10708 Sep 02 j 15:10	26°♊36'17	31.24457 AU
morning rise	-10708 Sep 17 j 09:36	27°♊09'39	
retrograde	-10708 Dec 15 j 19:23	29°♊05'59	
opposition	-10707 Mar 06 j 10:43	27°♊42'41	2°52'12
min. Earth dist.	-10707 Mar 06 j 04:25	27°♊43'07	29.24335 AU

Attention, astronomical year style is used: The year -10707 in astronomical counting style is the year 10708 BCE in historical counting style.

direct	-10707 May 25 j 06:32	26°♊19'45	
evening set	-10707 Aug 20 j 19:53	28°♊13'32	
conjunction	-10707 Sep 04 j 18:54	28°♊47'18	2°40'58
minimum elong	-10707 Sep 04 j 18:54	28°♊47'18	2°41'34
max. Earth dist.	-10707 Sep 05 j 02:03	28°♊47'58	31.23705 AU
morning rise	-10707 Sep 19 j 18:57	29°♊21'11	
	-10707 Oct 08 j 02:33	0°♋	
retrograde	-10707 Dec 18 j 06:44	1°♋17'39	
	-10706 Mar 05 j 10:23	30°℞♊	
opposition	-10706 Mar 08 j 23:57	29°♊54'15	2°51'46
min. Earth dist.	-10706 Mar 08 j 16:13	29°♊54'46	29.23523 AU
direct	-10706 May 27 j 18:29	28°♊31'18	
	-10706 Aug 11 j 15:16	0°♋	
evening set	-10706 Aug 23 j 05:04	0°♋24'59	
conjunction	-10706 Sep 07 j 04:04	0°♋58'45	2°40'28
minimum elong	-10706 Sep 07 j 04:04	0°♋58'45	2°41'04
max. Earth dist.	-10706 Sep 07 j 11:08	0°♋59'25	31.22863 AU
morning rise	-10706 Sep 22 j 04:35	1°♋32'40	
retrograde	-10706 Dec 20 j 19:59	3°♋29'13	
opposition	-10705 Mar 11 j 13:02	2°♋05'43	2°51'06
min. Earth dist.	-10705 Mar 11 j 04:44	2°♋06'16	29.22670 AU
direct	-10705 May 30 j 05:20	0°♋42'45	
evening set	-10705 Aug 25 j 14:00	2°♋36'20	
conjunction	-10705 Sep 09 j 13:21	3°♋10'07	2°39'43
minimum elong	-10705 Sep 09 j 13:21	3°♋10'07	2°40'19
max. Earth dist.	-10705 Sep 09 j 22:28	3°♋10'59	31.22001 AU
morning rise	-10705 Sep 24 j 14:02	3°♋44'04	
retrograde	-10705 Dec 23 j 07:40	5°♋40'42	
opposition	-10704 Mar 13 j 02:06	4°♋17'05	2°50'11
min. Earth dist.	-10704 Mar 12 j 16:52	4°♋17'42	29.21814 AU
direct	-10704 May 31 j 18:37	2°♋54'08	
evening set	-10704 Aug 26 j 23:02	4°♋47'36	
conjunction	-10704 Sep 10 j 22:25	5°♋21'24	2°38'45
minimum elong	-10704 Sep 10 j 22:25	5°♋21'24	2°39'20
max. Earth dist.	-10704 Sep 11 j 07:42	5°♋22'17	31.21178 AU
morning rise	-10704 Sep 25 j 23:33	5°♋55'23	
retrograde	-10704 Dec 24 j 20:47	7°♋52'07	
opposition	-10703 Mar 15 j 15:08	6°♋28'24	2°49'02
min. Earth dist.	-10703 Mar 15 j 04:13	6°♋29'08	29.21032 AU
direct	-10703 Jun 03 j 05:14	5°♋05'27	
evening set	-10703 Aug 29 j 07:58	6°♋58'50	
conjunction	-10703 Sep 13 j 07:43	7°♋32'40	2°37'33
minimum elong	-10703 Sep 13 j 07:43	7°♋32'40	2°38'09
max. Earth dist.	-10703 Sep 13 j 18:49	7°♋33'43	31.20435 AU
morning rise	-10703 Sep 28 j 09:08	8°♋06'40	
retrograde	-10703 Dec 27 j 06:48	10°♋03'31	
opposition	-10702 Mar 18 j 04:13	8°♋39'43	2°47'37
min. Earth dist.	-10702 Mar 17 j 16:52	8°♋40'30	29.20338 AU
direct	-10702 Jun 05 j 17:27	7°♋16'49	
evening set	-10702 Aug 31 j 16:57	9°♋10'05	
conjunction	-10702 Sep 15 j 16:59	9°♋43'57	2°36'07
minimum elong	-10702 Sep 15 j 16:59	9°♋43'57	2°36'42
max. Earth dist.	-10702 Sep 16 j 04:50	9°♋45'04	31.19801 AU
morning rise	-10702 Sep 30 j 18:53	10°♋18'00	
retrograde	-10702 Dec 29 j 19:19	12°♋14'57	
opposition	-10701 Mar 20 j 17:11	10°♋51'06	2°45'58
min. Earth dist.	-10701 Mar 20 j 03:48	10°♋52'00	29.19736 AU
direct	-10701 Jun 08 j 04:57	9°♋28'14	
evening set	-10701 Sep 03 j 02:02	11°♋21'26	
conjunction	-10701 Sep 18 j 02:21	11°♋55'19	2°34'27
minimum elong	-10701 Sep 18 j 02:22	11°♋55'19	2°35'02
max. Earth dist.	-10701 Sep 18 j 15:16	11°♋56'33	31.19228 AU
morning rise	-10701 Oct 03 j 04:44	12°♋29'25	
retrograde	-10700 Jan 01 j 06:42	14°♋26'29	
opposition	-10700 Mar 22 j 06:09	13°♋02'36	2°44'04
min. Earth dist.	-10700 Mar 21 j 16:56	13°♋03'30	29.19188 AU
direct	-10700 Jun 09 j 15:10	11°♋39'47	
evening set	-10700 Sep 04 j 11:06	13°♋32'55	
conjunction	-10700 Sep 19 j 11:50	14°♋06'49	2°32'33
minimum elong	-10700 Sep 19 j 11:51	14°♋06'50	2°33'09
max. Earth dist.	-10700 Sep 20 j 02:05	14°♋08'11	31.18706 AU
morning rise	-10700 Oct 04 j 14:37	14°♋40'57	
retrograde	-10699 Jan 02 j 18:18	16°♋38'09	
opposition	-10699 Mar 24 j 19:08	15°♋14'14	2°41'56
min. Earth dist.	-10699 Mar 24 j 04:01	15°♋15'15	29.18657 AU
direct	-10699 Jun 12 j 02:28	13°♋51'28	
evening set	-10699 Sep 06 j 20:15	15°♋44'32	
conjunction	-10699 Sep 21 j 21:15	16°♋18'28	2°30'26
minimum elong	-10699 Sep 21 j 21:15	16°♋18'29	2°31'02
max. Earth dist.	-10699 Sep 22 j 11:37	16°♋19'50	31.18167 AU
morning rise	-10699 Oct 07 j 00:40	16°♋52'39	
retrograde	-10698 Jan 05 j 07:06	18°♋49'59	
opposition	-10698 Mar 27 j 08:20	17°♋26'01	2°39'33
min. Earth dist.	-10698 Mar 26 j 17:20	17°♋27'02	29.18099 AU
direct	-10698 Jun 14 j 11:25	16°♋03'17	
evening set	-10698 Sep 09 j 05:30	17°♋56'18	
conjunction	-10698 Sep 24 j 07:05	18°♋30'17	2°28'06
minimum elong	-10698 Sep 24 j 07:05	18°♋30'17	2°28'41
max. Earth dist.	-10698 Sep 24 j 23:04	18°♋31'48	31.17579 AU
morning rise	-10698 Oct 09 j 10:54	19°♋04'30	
retrograde	-10697 Jan 07 j 19:06	21°♋01'56	
opposition	-10697 Mar 29 j 21:13	19°♋37'56	2°36'56
min. Earth dist.	-10697 Mar 29 j 05:03	19°♋39'01	29.17456 AU
direct	-10697 Jun 16 j 22:42	18°♋15'14	
evening set	-10697 Sep 11 j 15:00	20°♋08'11	
conjunction	-10697 Sep 26 j 16:52	20°♋42'12	2°25'33
minimum elong	-10697 Sep 26 j 16:52	20°♋42'12	2°26'08
max. Earth dist.	-10697 Sep 27 j 08:21	20°♋43'40	31.16889 AU
morning rise	-10697 Oct 11 j 21:25	21°♋16'28	
retrograde	-10696 Jan 10 j 09:14	23°♋14'01	
opposition	-10696 Mar 31 j 10:19	21°♋49'56	2°34'05
min. Earth dist.	-10696 Mar 30 j 17:58	21°♋51'03	29.16706 AU
direct	-10696 Jun 18 j 08:51	20°♋27'15	
evening set	-10696 Sep 13 j 00:17	22°♋20'08	
conjunction	-10696 Sep 28 j 02:45	22°♋54'11	2°22'47
minimum elong	-10696 Sep 28 j 02:46	22°♋54'12	2°23'21
max. Earth dist.	-10696 Sep 28 j 19:49	22°♋55'48	31.16073 AU
morning rise	-10696 Oct 13 j 07:43	23°♋28'30	
retrograde	-10695 Jan 11 j 21:41	25°♋26'09	
opposition	-10695 Apr 02 j 23:23	24°♋02'00	2°31'01
min. Earth dist.	-10695 Apr 02 j 06:34	24°♋03'08	29.15816 AU
direct	-10695 Jun 20 j 21:18	22°♋39'19	
evening set	-10695 Sep 15 j 09:48	24°♋32'07	
conjunction	-10695 Sep 30 j 12:40	25°♋06'13	2°19'49
minimum elong	-10695 Sep 30 j 12:41	25°♋06'13	2°20'23
max. Earth dist.	-10695 Oct 01 j 05:22	25°♋07'48	31.15144 AU
morning rise	-10695 Oct 15 j 18:25	25°♋40'35	
retrograde	-10694 Jan 14 j 11:32	27°♋38'17	
opposition	-10694 Apr 05 j 12:21	26°♋14'03	2°27'44
min. Earth dist.	-10694 Apr 04 j 18:34	26°♋15'15	29.14830 AU
direct	-10694 Jun 23 j 07:45	24°♋51'21	

Attention, astronomical year style is used: The year -10694 in astronomical counting style is the year 10695 BCE in historical counting style.

evening set	-10694 Sep 17 j 19:10	26°♋44'03		
conjunction	-10694 Oct 02 j 22:41	27°♋18'12	2°16'38	
minimum elong	-10694 Oct 02 j 22:42	27°♋18'12	2°17'12	
max. Earth dist.	-10694 Oct 03 j 16:34	27°♋19'54	31.14116 AU	
morning rise	-10694 Oct 18 j 05:02	27°♋52'37		
retrograde	-10693 Jan 16 j 22:47	29°♋50'23		
min. Earth dist.	-10693 Apr 07 j 07:37	28°♋27'15	29.13767 AU	
opposition	-10693 Apr 08 j 01:17	28°♋26'03	2°24'14	
direct	-10693 Jun 25 j 20:11	27°♋03'21		
evening set	-10693 Sep 20 j 04:37	28°♋55'57		
conjunction	-10693 Oct 05 j 08:40	29°♋30'08	2°13'16	
minimum elong	-10693 Oct 05 j 08:41	29°♋30'08	2°13'49	
max. Earth dist.	-10693 Oct 06 j 03:02	29°♋31'53	31.13057 AU	
	-10693 Oct 18 j 13:55	0°♌		
morning rise	-10693 Oct 20 j 15:41	0°♌04'36		
retrograde	-10692 Jan 19 j 12:04	2°♌02'26		
opposition	-10692 Apr 09 j 13:54	0°♌38'00	2°20'32	
min. Earth dist.	-10692 Apr 08 j 18:37	0°♌39'19	29.12705 AU	
	-10692 May 03 j 16:37	30°℞♋		
direct	-10692 Jun 27 j 08:05	29°♋15'16		
	-10692 Aug 18 j 05:08	0°♌		
evening set	-10692 Sep 21 j 14:06	1°♌07'47		
conjunction	-10692 Oct 06 j 18:39	1°♌42'01	2°09'43	
minimum elong	-10692 Oct 06 j 18:40	1°♌42'01	2°10'14	
max. Earth dist.	-10692 Oct 07 j 13:48	1°♌43'50	31.12018 AU	
morning rise	-10692 Oct 22 j 02:23	2°♌16'33		
retrograde	-10691 Jan 20 j 23:28	4°♌14'27		
min. Earth dist.	-10691 Apr 11 j 07:40	2°♌51'13	29.11704 AU	
opposition	-10691 Apr 12 j 02:45	2°♌49'55	2°16'38	
direct	-10691 Jun 29 j 18:37	1°♌27'11		
evening set	-10691 Sep 23 j 23:25	3°♌19'38		
conjunction	-10691 Oct 09 j 04:41	3°♌53'54	2°05'57	
minimum elong	-10691 Oct 09 j 04:42	3°♌53'54	2°06'29	
max. Earth dist.	-10691 Oct 10 j 01:16	3°♌55'51	31.11078 AU	
morning rise	-10691 Oct 24 j 13:02	4°♌28'29		
retrograde	-10690 Jan 23 j 10:48	6°♌26'27		
opposition	-10690 Apr 14 j 15:23	5°♌01'52	2°12'31	
min. Earth dist.	-10690 Apr 13 j 18:23	5°♌03'18	29.10806 AU	
direct	-10690 Jul 02 j 06:03	3°♌39'08		
evening set	-10690 Sep 26 j 09:04	5°♌31'31		
conjunction	-10690 Oct 11 j 14:50	6°♌05'51	2°02'01	
minimum elong	-10690 Oct 11 j 14:50	6°♌05'51	2°02'32	
max. Earth dist.	-10690 Oct 12 j 11:27	6°♌07'48	31.10241 AU	
morning rise	-10690 Oct 27 j 00:02	6°♌40'29		
retrograde	-10689 Jan 25 j 23:07	8°♌38'32		
min. Earth dist.	-10689 Apr 16 j 07:02	7°♌15'20	29.10027 AU	
opposition	-10689 Apr 17 j 03:58	7°♌13'54	2°08'12	
direct	-10689 Jul 04 j 14:32	5°♌51'12		
evening set	-10689 Sep 28 j 18:36	7°♌43'32		
conjunction	-10689 Oct 14 j 01:10	8°♌17'55	1°57'54	
minimum elong	-10689 Oct 14 j 01:11	8°♌17'55	1°58'24	
max. Earth dist.	-10689 Oct 14 j 23:36	8°♌20'02	31.09523 AU	
morning rise	-10689 Oct 29 j 10:56	8°♌52'36		
retrograde	-10688 Jan 28 j 11:09	10°♌50'44		
opposition	-10688 Apr 18 j 16:30	9°♌26'05	2°03'42	
min. Earth dist.	-10688 Apr 17 j 18:09	9°♌27'37	29.09342 AU	
direct	-10688 Jul 06 j 01:20	8°♌03'25		
evening set	-10688 Sep 30 j 04:14	9°♌55'43		
conjunction	-10688 Oct 15 j 11:16	10°♌30'09	1°53'36	
minimum elong	-10688 Oct 15 j 11:17	10°♌30'09	1°54'05	
max. Earth dist.	-10688 Oct 16 j 09:30	10°♌32'15	31.08890 AU	
morning rise	-10688 Oct 30 j 21:58	11°♌04'54		
retrograde	-10687 Jan 30 j 01:11	13°♌03'08		
min. Earth dist.	-10687 Apr 20 j 06:33	11°♌40'00	29.08736 AU	
opposition	-10687 Apr 21 j 05:12	11°♌38'27	1°59'01	
direct	-10687 Jul 08 j 10:47	10°♌15'49		
evening set	-10687 Oct 02 j 14:01	12°♌08'06		
conjunction	-10687 Oct 17 j 21:52	12°♌42'35	1°49'07	
minimum elong	-10687 Oct 17 j 21:53	12°♌42'35	1°49'36	
max. Earth dist.	-10687 Oct 18 j 21:47	12°♌44'50	31.08305 AU	
morning rise	-10687 Nov 02 j 09:10	13°♌17'24		
	-10686 Jan 01 j 07:27	15°♌		
retrograde	-10686 Feb 01 j 14:01	15°♌15'43		
	-10686 Mar 05 j 13:28	15°℞♌		
opposition	-10686 Apr 23 j 17:44	13°♌51'01	1°54'08	
min. Earth dist.	-10686 Apr 22 j 18:44	13°♌52'36	29.08145 AU	
direct	-10686 Jul 10 j 21:55	12°♌28'26		
evening set	-10686 Oct 05 j 00:03	14°♌20'41		
conjunction	-10686 Oct 20 j 08:30	14°♌55'14	1°44'29	
minimum elong	-10686 Oct 20 j 08:31	14°♌55'14	1°44'57	
max. Earth dist.	-10686 Oct 21 j 07:58	14°♌57'27	31.07723 AU	
	-10686 Oct 22 j 11:01	15°♌		
morning rise	-10686 Nov 04 j 20:41	15°♌30'07		
retrograde	-10685 Feb 04 j 04:25	17°♌28'31		
min. Earth dist.	-10685 Apr 25 j 06:36	16°♌05'25	29.07535 AU	
opposition	-10685 Apr 26 j 06:18	16°♌03'48	1°49'05	
	-10685 Jun 09 j 10:14	15°℞♌		
direct	-10685 Jul 13 j 07:29	14°♌41'13		
	-10685 Aug 15 j 11:02	15°♌		
evening set	-10685 Oct 07 j 10:12	16°♌33'28		
conjunction	-10685 Oct 22 j 19:21	17°♌08'03	1°39'41	
minimum elong	-10685 Oct 22 j 19:22	17°♌08'03	1°40'07	
max. Earth dist.	-10685 Oct 23 j 19:38	17°♌10'21	31.07072 AU	
morning rise	-10685 Nov 07 j 08:13	17°♌43'00		
retrograde	-10684 Feb 06 j 17:17	19°♌41'28		
opposition	-10684 Apr 27 j 18:51	18°♌16'43	1°43'52	
min. Earth dist.	-10684 Apr 26 j 19:39	18°♌18'18	29.06834 AU	
direct	-10684 Jul 14 j 19:43	16°♌54'10		
evening set	-10684 Oct 08 j 20:29	18°♌46'22		
conjunction	-10684 Oct 24 j 06:21	19°♌21'01	1°34'44	
minimum elong	-10684 Oct 24 j 06:22	19°♌21'01	1°35'09	
max. Earth dist.	-10684 Oct 25 j 06:37	19°♌23'19	31.06340 AU	
morning rise	-10684 Nov 08 j 19:59	19°♌56'01		
retrograde	-10683 Feb 08 j 08:20	21°♌54'32		
min. Earth dist.	-10683 Apr 29 j 07:08	20°♌31'24	29.06034 AU	
opposition	-10683 Apr 30 j 07:23	20°♌29'44	1°38'30	
direct	-10683 Jul 17 j 07:52	19°♌07'10		
evening set	-10683 Oct 11 j 06:50	20°♌59'20		
conjunction	-10683 Oct 26 j 17:22	21°♌34'03	1°29'38	
minimum elong	-10683 Oct 26 j 17:23	21°♌34'03	1°30'03	
max. Earth dist.	-10683 Oct 27 j 17:38	21°♌36'20	31.05481 AU	
morning rise	-10683 Nov 11 j 07:52	22°♌09'07		
retrograde	-10682 Feb 10 j 20:18	24°♌07'40		
opposition	-10682 May 02 j 20:02	22°♌42'48	1°32'59	
min. Earth dist.	-10682 May 01 j 20:47	22°♌44'24	29.05112 AU	
direct	-10682 Jul 19 j 18:47	21°♌20'12		
evening set	-10682 Oct 13 j 17:16	23°♌12'18		
conjunction	-10682 Oct 29 j 04:40	23°♌47'04	1°24'25	
minimum elong	-10682 Oct 29 j 04:41	23°♌47'04	1°24'49	
max. Earth dist.	-10682 Oct 30 j 05:35	23°♌49'25	31.04522 AU	
morning rise	-10682 Nov 13 j 19:51	24°♌22'11		

Attention, astronomical year style is used: The year -10681 in astronomical counting style is the year 10682 BCE in historical counting style.

retrograde	-10681 Feb 13 j 08:27	26°♌20'44	
min. Earth dist.	-10681 May 04 j 07:56	24°♌57'29	29.04096 AU
opposition	-10681 May 05 j 08:15	24°♌55'48	1°27'20
direct	-10681 Jul 22 j 06:55	23°♌33'10	
evening set	-10681 Oct 16 j 03:50	25°♌25'12	
conjunction	-10681 Oct 31 j 15:48	26°♌00'01	1°19'04
minimum elong	-10681 Oct 31 j 15:49	26°♌00'01	1°19'27
max. Earth dist.	-10681 Nov 01 j 16:05	26°♌02'18	31.03486 AU
morning rise	-10681 Nov 16 j 07:54	26°♌35'12	
retrograde	-10680 Feb 15 j 21:03	28°♌33'45	
opposition	-10680 May 06 j 20:40	27°♌08'44	1°21'34
min. Earth dist.	-10680 May 05 j 21:00	27°♌10'21	29.03048 AU
direct	-10680 Jul 23 j 16:38	25°♌46'02	
evening set	-10680 Oct 17 j 14:08	27°♌38'01	
conjunction	-10680 Nov 02 j 02:58	28°♌12'52	1°13'37
minimum elong	-10680 Nov 02 j 02:59	28°♌12'52	1°13'58
max. Earth dist.	-10680 Nov 03 j 04:44	28°♌15'18	31.02449 AU
morning rise	-10680 Nov 17 j 19:41	28°♌48'06	
	-10680 Dec 24 j 13:00	0°♍	
retrograde	-10679 Feb 17 j 08:29	0°♍46'40	
	-10679 Apr 15 j 06:30	30°℞♌	
min. Earth dist.	-10679 May 08 j 08:11	29°♌23'16	29.02021 AU
opposition	-10679 May 09 j 08:54	29°♌21'34	1°15'40
direct	-10679 Jul 26 j 04:22	27°♌58'50	
evening set	-10679 Oct 20 j 00:49	29°♌50'46	
	-10679 Oct 24 j 04:49	0°♍	
conjunction	-10679 Nov 04 j 14:14	0°♍25'40	1°08'02
minimum elong	-10679 Nov 04 j 14:15	0°♍25'40	1°08'23
max. Earth dist.	-10679 Nov 05 j 15:25	0°♍28'02	31.01467 AU
morning rise	-10679 Nov 20 j 07:53	1°♍00'58	
retrograde	-10678 Feb 19 j 21:23	2°♍59'32	
opposition	-10678 May 11 j 21:03	1°♍34'22	1°09'39
min. Earth dist.	-10678 May 10 j 20:21	1°♍36'04	29.01088 AU
direct	-10678 Jul 28 j 13:45	0°♍11'35	
evening set	-10678 Oct 22 j 11:28	2°♍03'30	
conjunction	-10678 Nov 07 j 01:44	2°♍38'27	1°02'22
minimum elong	-10678 Nov 07 j 01:45	2°♍38'27	1°02'42
max. Earth dist.	-10678 Nov 08 j 04:24	2°♍40'58	31.00584 AU
morning rise	-10678 Nov 22 j 20:00	3°♍13'48	
retrograde	-10677 Feb 22 j 09:11	5°♍12'24	
min. Earth dist.	-10677 May 13 j 08:06	3°♍48'54	29.00252 AU
opposition	-10677 May 14 j 09:09	3°♍47'10	1°03'32
direct	-10677 Jul 31 j 00:35	2°♍24'22	
evening set	-10677 Oct 24 j 22:14	4°♍16'17	
conjunction	-10677 Nov 09 j 13:07	4°♍51'17	0°56'36
minimum elong	-10677 Nov 09 j 13:07	4°♍51'17	0°56'54
max. Earth dist.	-10677 Nov 10 j 15:21	4°♍53'46	30.99820 AU
morning rise	-10677 Nov 25 j 08:12	5°♍26'41	
retrograde	-10676 Feb 24 j 23:28	7°♍25'20	
opposition	-10676 May 15 j 21:11	6°♍00'05	0°57'19
min. Earth dist.	-10676 May 14 j 19:23	6°♍01'52	28.99543 AU
direct	-10676 Aug 01 j 10:03	4°♍37'16	
evening set	-10676 Oct 26 j 09:06	6°♍29'12	
conjunction	-10676 Nov 11 j 00:43	7°♍04'16	0°50'44
minimum elong	-10676 Nov 11 j 00:43	7°♍04'16	0°51'02
max. Earth dist.	-10676 Nov 12 j 03:51	7°♍06'49	30.99162 AU
morning rise	-10676 Nov 26 j 20:29	7°♍39'43	
retrograde	-10675 Feb 26 j 12:27	9°♍38'24	
min. Earth dist.	-10675 May 17 j 07:50	8°♍14'54	28.98928 AU
opposition	-10675 May 18 j 09:15	8°♍13'08	0°51'00
direct	-10675 Aug 03 j 21:36	6°♍50'21	
evening set	-10675 Oct 28 j 20:04	8°♍42'18	
conjunction	-10675 Nov 13 j 12:26	9°♍17'25	0°44'48
minimum elong	-10675 Nov 13 j 12:27	9°♍17'25	0°45'03
max. Earth dist.	-10675 Nov 14 j 15:41	9°♍19'59	30.98602 AU
morning rise	-10675 Nov 29 j 08:58	9°♍52'56	
retrograde	-10674 Mar 01 j 03:46	11°♍51'39	
opposition	-10674 May 20 j 21:13	10°♍26'24	0°44'36
min. Earth dist.	-10674 May 19 j 18:50	10°♍28'14	28.98382 AU
direct	-10674 Aug 06 j 09:19	9°♍03'38	
evening set	-10674 Oct 31 j 07:25	10°♍55'37	
conjunction	-10674 Nov 16 j 00:22	11°♍30'48	0°38'47
minimum elong	-10674 Nov 16 j 00:23	11°♍30'48	0°39'01
max. Earth dist.	-10674 Nov 17 j 03:32	11°♍33'21	30.98063 AU
morning rise	-10674 Dec 01 j 21:39	12°♍06'22	
retrograde	-10673 Mar 03 j 16:22	14°♍05'08	
min. Earth dist.	-10673 May 22 j 07:57	12°♍41'39	28.97844 AU
opposition	-10673 May 23 j 09:09	12°♍39'54	0°38'08
direct	-10673 Aug 08 j 19:40	11°♍17'09	
evening set	-10673 Nov 02 j 18:47	13°♍09'11	
conjunction	-10673 Nov 18 j 12:32	13°♍44'24	0°32'42
minimum elong	-10673 Nov 18 j 12:33	13°♍44'24	0°32'55
max. Earth dist.	-10673 Nov 19 j 16:10	13°♍47'00	30.97522 AU
morning rise	-10673 Dec 04 j 10:22	14°♍20'02	
retrograde	-10672 Mar 05 j 06:14	16°♍18'50	
opposition	-10672 May 24 j 21:03	14°♍53'37	0°31'36
min. Earth dist.	-10672 May 23 j 19:05	14°♍55'26	28.97268 AU
direct	-10672 Aug 10 j 07:43	13°♍30'53	
evening set	-10672 Nov 04 j 06:21	15°♍22'57	
conjunction	-10672 Nov 20 j 00:36	15°♍58'14	0°26'34
minimum elong	-10672 Nov 20 j 00:37	15°♍58'14	0°26'46
max. Earth dist.	-10672 Nov 21 j 03:09	16°♍00'43	30.96907 AU
morning rise	-10672 Dec 05 j 23:15	16°♍33'54	
retrograde	-10671 Mar 07 j 20:12	18°♍32'45	
min. Earth dist.	-10671 May 26 j 08:21	17°♍09'15	28.96608 AU
opposition	-10671 May 27 j 09:08	17°♍07'32	0°25'01
direct	-10671 Aug 12 j 17:35	15°♍44'46	
evening set	-10671 Nov 06 j 18:04	17°♍36'52	
conjunction	-10671 Nov 22 j 13:10	18°♍12'12	0°20'24
minimum elong	-10671 Nov 22 j 13:10	18°♍12'12	0°20'34
max. Earth dist.	-10671 Nov 23 j 16:21	18°♍14'45	30.96194 AU
morning rise	-10671 Dec 08 j 12:18	18°♍47'56	
retrograde	-10670 Mar 10 j 07:59	20°♍46'47	
opposition	-10670 May 29 j 20:54	19°♍21'32	0°18'23
min. Earth dist.	-10670 May 28 j 19:52	19°♍23'17	28.95827 AU
direct	-10670 Aug 15 j 05:33	17°♍58'45	
evening set	-10670 Nov 09 j 06:05	19°♍50'52	
conjunction	-10670 Nov 25 j 01:41	20°♍26'14	0°14'12
minimum elong	-10670 Nov 25 j 01:41	20°♍26'14	0°14'22
behind sun begin	-10670 Nov 24 j 22:44	20°♍25'58	
behind sun end	-10670 Nov 25 j 04:37	20°♍26'30	
max. Earth dist.	-10670 Nov 26 j 03:21	20°♍28'39	30.95363 AU
morning rise	-10670 Dec 11 j 01:37	21°♍02'01	
retrograde	-10669 Mar 12 j 20:38	23°♍00'51	
min. Earth dist.	-10669 May 31 j 08:34	21°♍37'16	28.94944 AU
opposition	-10669 Jun 01 j 08:50	21°♍35'34	0°11'44
direct	-10669 Aug 17 j 15:16	20°♍12'43	
evening set	-10669 Nov 11 j 17:52	22°♍04'51	
conjunction	-10669 Nov 27 j 14:13	22°♍40'16	0°07'59
minimum elong	-10669 Nov 27 j 14:13	22°♍40'16	0°08'07
behind sun begin	-10669 Nov 27 j 08:25	22°♍39'45	

Attention, astronomical year style is used: The year -10669 in astronomical counting style is the year 10670 BCE in historical counting style.

behind sun end	-10669 Nov 27 j 20:00	22°♑40'47	
max. Earth dist.	-10669 Nov 28 j 16:41	22°♑42'45	30.94434 AU
morning rise	-10669 Dec 13 j 14:35	23°♑16'05	
retrograde	-10668 Mar 14 j 07:56	25°♑14'54	
opposition	-10668 Jun 02 j 20:32	23°♑49'34	0°05'04
min. Earth dist.	-10668 Jun 01 j 20:36	23°♑51'14	28.93982 AU
direct	-10668 Aug 19 j 02:08	22°♑26'38	
evening set	-10668 Nov 13 j 05:53	24°♑18'47	
conjunction	-10668 Nov 29 j 02:47	24°♑54'14	0°01'45
minimum elong	-10668 Nov 29 j 02:45	24°♑54'14	0°01'52
behind sun begin	-10668 Nov 28 j 20:14	24°♑53'39	
behind sun end	-10668 Nov 29 j 09:17	24°♑54'49	
max. Earth dist.	-10668 Nov 30 j 04:10	24°♑56'37	30.93477 AU
morning rise	-10668 Dec 15 j 03:51	25°♑30'05	
desc. node	-10667 Mar 10 j 07:33	27°♑28'09	
retrograde	-10667 Mar 16 j 21:42	27°♑28'52	
min. Earth dist.	-10667 Jun 04 j 08:05	26°♑05'09	28.93035 AU
opposition	-10667 Jun 05 j 08:08	26°♑03'28	-0°01'36
direct	-10667 Aug 21 j 12:01	24°♑40'27	
evening set	-10667 Nov 15 j 17:56	26°♑32'37	
conjunction	-10667 Dec 01 j 15:26	27°♑08'06	-0°04'37
minimum elong	-10667 Dec 01 j 15:26	27°♑08'06	0°04'32
behind sun begin	-10667 Dec 01 j 09:02	27°♑07'32	
behind sun end	-10667 Dec 01 j 21:51	27°♑08'41	
max. Earth dist.	-10667 Dec 02 j 17:18	27°♑10'31	30.92541 AU
morning rise	-10667 Dec 17 j 17:02	27°♑43'59	
retrograde	-10666 Mar 19 j 09:31	29°♑42'45	
opposition	-10666 Jun 07 j 19:43	28°♑17'17	-0°08'16
min. Earth dist.	-10666 Jun 06 j 20:26	28°♑18'55	28.92134 AU
direct	-10666 Aug 23 j 24:00	26°♑54'11	
evening set	-10666 Nov 18 j 06:07	28°♑46'23	
conjunction	-10666 Dec 04 j 04:13	29°♑21'55	-0°10'49
minimum elong	-10666 Dec 04 j 04:12	29°♑21'54	0°10'45
behind sun begin	-10666 Dec 03 j 23:13	29°♑21'28	
behind sun end	-10666 Dec 04 j 09:11	29°♑22'21	
max. Earth dist.	-10666 Dec 05 j 05:45	29°♑24'18	30.91694 AU
morning rise	-10666 Dec 20 j 06:19	29°♑57'49	
	-10666 Dec 21 j 06:16	0°♎	
retrograde	-10665 Mar 21 j 23:37	1°♎56'32	
min. Earth dist.	-10665 Jun 09 j 06:56	0°♎32'43	28.91345 AU
opposition	-10665 Jun 10 j 07:01	0°♎31'02	-0°14'55
	-10665 Jun 29 j 04:09	30°℞♑	
direct	-10665 Aug 26 j 11:44	29°♑07'52	
	-10665 Oct 21 j 15:40	0°♎	
evening set	-10665 Nov 20 j 18:25	1°♎00'07	
conjunction	-10665 Dec 06 j 16:57	1°♎35'41	-0°17'01
minimum elong	-10665 Dec 06 j 16:57	1°♎35'41	0°16'59
max. Earth dist.	-10665 Dec 07 j 18:22	1°♎38'03	30.90961 AU
morning rise	-10665 Dec 22 j 19:36	2°♎11'37	
retrograde	-10664 Mar 23 j 12:06	4°♎10'19	
opposition	-10664 Jun 11 j 18:31	2°♎44'47	-0°21'33
min. Earth dist.	-10664 Jun 10 j 19:29	2°♎46'24	28.90689 AU
direct	-10664 Aug 27 j 22:09	1°♎21'35	
evening set	-10664 Nov 22 j 06:32	3°♎13'52	
conjunction	-10664 Dec 08 j 05:46	3°♎49'28	-0°23'12
minimum elong	-10664 Dec 08 j 05:45	3°♎49'28	0°23'11
max. Earth dist.	-10664 Dec 09 j 07:42	3°♎51'54	30.90380 AU
morning rise	-10664 Dec 24 j 08:48	4°♎25'27	
retrograde	-10663 Mar 26 j 02:33	6°♎24'07	
min. Earth dist.	-10663 Jun 13 j 05:57	5°♎00'16	28.90170 AU
opposition	-10663 Jun 14 j 05:50	4°♎58'35	-0°28'10
direct	-10663 Aug 30 j 10:57	3°♎35'21	
evening set	-10663 Nov 24 j 19:09	5°♎27'42	
conjunction	-10663 Dec 10 j 18:44	6°♎03'20	-0°29'22
minimum elong	-10663 Dec 10 j 18:43	6°♎03'20	0°29'22
max. Earth dist.	-10663 Dec 11 j 19:40	6°♎05'40	30.89919 AU
morning rise	-10663 Dec 26 j 22:23	6°♎39'21	
retrograde	-10662 Mar 28 j 16:28	8°♎38'00	
opposition	-10662 Jun 16 j 17:09	7°♎12'29	-0°34'44
min. Earth dist.	-10662 Jun 15 j 18:24	7°♎14'05	28.89772 AU
direct	-10662 Sep 01 j 21:26	5°♎49'13	
evening set	-10662 Nov 27 j 07:46	7°♎41'39	
conjunction	-10662 Dec 13 j 08:00	8°♎17'20	-0°35'29
minimum elong	-10662 Dec 13 j 07:59	8°♎17'20	0°35'30
max. Earth dist.	-10662 Dec 14 j 09:40	8°♎19'44	30.89564 AU
morning rise	-10662 Dec 29 j 11:53	8°♎53'22	
retrograde	-10661 Mar 31 j 04:40	10°♎52'01	
min. Earth dist.	-10661 Jun 18 j 05:21	9°♎28'09	28.89445 AU
opposition	-10661 Jun 19 j 04:24	9°♎26'32	-0°41'15
direct	-10661 Sep 04 j 09:27	8°♎03'15	
evening set	-10661 Nov 29 j 20:34	9°♎55'47	
conjunction	-10661 Dec 15 j 21:04	10°♎31'29	-0°41'34
minimum elong	-10661 Dec 15 j 21:03	10°♎31'29	0°41'37
max. Earth dist.	-10661 Dec 16 j 21:17	10°♎33'45	30.89257 AU
morning rise	-10660 Jan 01 j 01:29	11°♎07'33	
retrograde	-10660 Apr 01 j 18:06	13°♎06'12	
opposition	-10660 Jun 20 j 15:45	11°♎40'44	-0°47'44
min. Earth dist.	-10660 Jun 19 j 17:33	11°♎42'18	28.89156 AU
direct	-10660 Sep 05 j 19:12	10°♎17'27	
evening set	-10660 Dec 01 j 09:32	12°♎10'04	
conjunction	-10660 Dec 17 j 10:36	12°♎45'48	-0°47'35
minimum elong	-10660 Dec 17 j 10:36	12°♎45'48	0°47'39
max. Earth dist.	-10660 Dec 18 j 11:21	12°♎48'07	30.88951 AU
morning rise	-10659 Jan 02 j 15:13	13°♎21'54	
retrograde	-10659 Apr 04 j 06:07	15°♎20'32	
min. Earth dist.	-10659 Jun 22 j 05:30	13°♎56'38	28.88831 AU
opposition	-10659 Jun 23 j 02:58	13°♎55'07	-0°54'07
direct	-10659 Sep 08 j 06:01	12°♎31'47	
evening set	-10659 Dec 03 j 22:48	14°♎24'31	
conjunction	-10659 Dec 20 j 00:13	15°♎00'16	-0°53'31
minimum elong	-10659 Dec 20 j 00:12	15°♎00'16	0°53'38
max. Earth dist.	-10659 Dec 20 j 23:13	15°♎02'26	30.88597 AU
morning rise	-10658 Jan 05 j 05:18	15°♎36'23	
retrograde	-10658 Apr 06 j 19:45	17°♎35'00	
opposition	-10658 Jun 25 j 14:15	16°♎09'36	-1°00'27
min. Earth dist.	-10658 Jun 24 j 17:13	16°♎11'05	28.88441 AU
direct	-10658 Sep 10 j 16:16	14°♎46'14	
evening set	-10658 Dec 06 j 12:10	16°♎39'03	
conjunction	-10658 Dec 22 j 13:59	17°♎14'50	-0°59'24
minimum elong	-10658 Dec 22 j 13:59	17°♎14'50	0°59'30
max. Earth dist.	-10658 Dec 23 j 12:44	17°♎16'57	30.88143 AU
morning rise	-10657 Jan 07 j 19:16	17°♎50'57	
retrograde	-10657 Apr 09 j 06:59	19°♎49'32	
min. Earth dist.	-10657 Jun 27 j 05:50	18°♎25'32	28.87946 AU
opposition	-10657 Jun 28 j 01:29	18°♎24'09	-1°06'40
direct	-10657 Sep 13 j 03:49	17°♎00'43	
evening set	-10657 Dec 09 j 01:32	18°♎53'37	
conjunction	-10657 Dec 25 j 03:44	19°♎29'25	-1°05'10
minimum elong	-10657 Dec 25 j 03:44	19°♎29'25	1°05'19
max. Earth dist.	-10657 Dec 26 j 01:19	19°♎31'26	30.87618 AU
morning rise	-10656 Jan 10 j 09:19	20°♎05'33	
retrograde	-10656 Apr 10 j 20:52	22°♎04'04	

Attention, astronomical year style is used: The year -10656 in astronomical counting style is the year 10657 BCE in historical counting style.

opposition	-10656 Jun 29 j 12:33	20°♎38'40	-1°12'48	
min. Earth dist.	-10656 Jun 28 j 16:45	20°♎40'04	28.87394 AU	
direct	-10656 Sep 14 j 15:35	19°♎15'09		
evening set	-10656 Dec 10 j 14:55	21°♎08'09		
conjunction	-10656 Dec 26 j 17:25	21°♎43'58	-1°10'51	
minimum elong	-10656 Dec 26 j 17:24	21°♎43'58	1°11'00	
max. Earth dist.	-10656 Dec 27 j 14:16	21°♎45'55	30.87036 AU	
morning rise	-10655 Jan 11 j 23:17	22°♎20'07		
retrograde	-10655 Apr 13 j 08:59	24°♎18'34		
opposition	-10655 Jul 01 j 23:42	22°♎53'09	-1°18'48	
min. Earth dist.	-10655 Jul 01 j 05:36	22°♎54'26	28.86814 AU	
direct	-10655 Sep 17 j 02:27	21°♎29'33		
evening set	-10655 Dec 13 j 04:26	23°♎22'38		
conjunction	-10655 Dec 29 j 07:23	23°♎58'28	-1°16'25	
minimum elong	-10655 Dec 29 j 07:22	23°♎58'28	1°16'37	
max. Earth dist.	-10655 Dec 30 j 04:02	24°♎00'24	30.86468 AU	
morning rise	-10654 Jan 14 j 13:24	24°♎34'37		
retrograde	-10654 Apr 15 j 23:07	26°♎33'00		
opposition	-10654 Jul 04 j 10:28	25°♎07'34	-1°24'42	
min. Earth dist.	-10654 Jul 03 j 16:03	25°♎08'52	28.86272 AU	
direct	-10654 Sep 19 j 15:54	23°♎43'53		
evening set	-10654 Dec 15 j 18:08	25°♎37'03		
conjunction	-10654 Dec 31 j 21:13	26°♎12'54	-1°21'52	
minimum elong	-10654 Dec 31 j 21:12	26°♎12'54	1°22'04	
max. Earth dist.	-10653 Jan 01 j 16:32	26°♎14'42	30.85953 AU	
morning rise	-10653 Jan 17 j 03:30	26°♎49'03		
retrograde	-10653 Apr 18 j 12:24	28°♎47'22		
opposition	-10653 Jul 06 j 21:27	27°♎21'56	-1°30'28	
min. Earth dist.	-10653 Jul 06 j 04:21	27°♎23'09	28.85824 AU	
direct	-10653 Sep 22 j 03:12	25°♎58'10		
evening set	-10653 Dec 18 j 07:32	27°♎51'26		
conjunction	-10652 Jan 03 j 11:02	28°♎27'18	-1°27'11	
minimum elong	-10652 Jan 03 j 11:01	28°♎27'18	1°27'26	
max. Earth dist.	-10652 Jan 04 j 06:53	28°♎29'09	30.85556 AU	
morning rise	-10652 Jan 19 j 17:19	29°♎03'28		
	-10652 Feb 16 j 17:17	0°♏		
retrograde	-10652 Apr 20 j 00:42	1°♏01'43		
	-10652 Jun 24 j 05:31	30°℞♎		
opposition	-10652 Jul 08 j 08:15	29°♎36'18	-1°36'05	
min. Earth dist.	-10652 Jul 07 j 14:52	29°♎37'32	28.85498 AU	
direct	-10652 Sep 23 j 15:46	28°♎12'28		
	-10652 Dec 17 j 04:42	0°♏		
evening set	-10652 Dec 19 j 21:19	0°♏05'50		
conjunction	-10651 Jan 05 j 00:55	0°♏41'43	-1°32'23	
minimum elong	-10651 Jan 05 j 00:54	0°♏41'43	1°32'37	
max. Earth dist.	-10651 Jan 05 j 19:11	0°♏43'26	30.85301 AU	
morning rise	-10651 Jan 21 j 07:30	1°♏17'53		
retrograde	-10651 Apr 22 j 14:34	3°♏16'05		
opposition	-10651 Jul 10 j 19:02	1°♏50'41	-1°41'34	
min. Earth dist.	-10651 Jul 10 j 02:26	1°♏51'52	28.85333 AU	
direct	-10651 Sep 26 j 02:10	0°♏26'49		
evening set	-10651 Dec 22 j 11:06	2°♏20'18		
conjunction	-10650 Jan 07 j 15:05	2°♏56'13	-1°37'26	
minimum elong	-10650 Jan 07 j 15:04	2°♏56'13	1°37'43	
max. Earth dist.	-10650 Jan 08 j 09:57	2°♏57'58	30.85196 AU	
morning rise	-10650 Jan 23 j 21:37	3°♏32'22		
retrograde	-10650 Apr 25 j 02:38	5°♏30'30		
opposition	-10650 Jul 13 j 05:50	4°♏05'11	-1°46'54	
min. Earth dist.	-10650 Jul 12 j 13:48	4°♏06'19	28.85299 AU	
direct	-10650 Sep 28 j 13:24	2°♏41'17		
evening set	-10650 Dec 25 j 01:04	4°♏34'54		

conjunction	-10649 Jan 10 j 05:07	5°♏10'48	-1°42'21	
minimum elong	-10649 Jan 10 j 05:06	5°♏10'48	1°42'38	
max. Earth dist.	-10649 Jan 10 j 22:24	5°♏12'25	30.85225 AU	
morning rise	-10649 Jan 26 j 11:51	5°♏46'59		
retrograde	-10649 Apr 27 j 15:27	7°♏45'04		
opposition	-10649 Jul 15 j 16:32	6°♏19'48	-1°52'04	
min. Earth dist.	-10649 Jul 15 j 00:44	6°♏20'56	28.85393 AU	
direct	-10649 Sep 30 j 23:49	4°♏55'53		
evening set	-10649 Dec 27 j 15:05	6°♏49'38		
conjunction	-10648 Jan 12 j 19:23	7°♏25'33	-1°47'07	
minimum elong	-10648 Jan 12 j 19:22	7°♏25'33	1°47'26	
max. Earth dist.	-10648 Jan 13 j 12:42	7°♏27'10	30.85349 AU	
morning rise	-10648 Jan 29 j 02:02	8°♏01'43		
retrograde	-10648 Apr 29 j 02:13	9°♏59'46		
opposition	-10648 Jul 17 j 03:19	8°♏34'35	-1°57'04	
min. Earth dist.	-10648 Jul 16 j 12:54	8°♏35'37	28.85557 AU	
direct	-10648 Oct 02 j 10:36	7°♏10'39		
evening set	-10648 Dec 29 j 05:14	9°♏04'33		
conjunction	-10647 Jan 14 j 09:42	9°♏40'29	-1°51'42	
minimum elong	-10647 Jan 14 j 09:41	9°♏40'28	1°52'02	
max. Earth dist.	-10647 Jan 15 j 01:39	9°♏41'58	30.85531 AU	
morning rise	-10647 Jan 30 j 16:28	10°♏16'38		
retrograde	-10647 May 01 j 16:23	12°♏14'38		
opposition	-10647 Jul 19 j 14:02	10°♏49'32	-2°01'53	
min. Earth dist.	-10647 Jul 18 j 23:40	10°♏50'33	28.85740 AU	
direct	-10647 Oct 04 j 21:34	9°♏25'33		
evening set	-10647 Dec 31 j 19:44	11°♏19'37		
conjunction	-10646 Jan 17 j 00:17	11°♏55'33	-1°56'08	
minimum elong	-10646 Jan 17 j 00:16	11°♏55'32	1°56'30	
max. Earth dist.	-10646 Jan 17 j 15:12	11°♏56'56	30.85678 AU	
morning rise	-10646 Feb 02 j 07:02	12°♏31'42		
retrograde	-10646 May 04 j 03:41	14°♏29'38		
opposition	-10646 Jul 22 j 00:50	13°♏04'36	-2°06'32	
min. Earth dist.	-10646 Jul 21 j 12:32	13°♏05'28	28.85872 AU	
direct	-10646 Oct 07 j 08:14	11°♏40'34		
evening set	-10645 Jan 03 j 10:13	13°♏34'46		
conjunction	-10645 Jan 19 j 14:59	14°♏10'42	-2°00'23	
minimum elong	-10645 Jan 19 j 14:58	14°♏10'42	2°00'45	
max. Earth dist.	-10645 Jan 20 j 05:00	14°♏12'00	30.85769 AU	
morning rise	-10645 Feb 04 j 21:39	14°♏46'50		
	-10645 Feb 11 j 00:14	15°♏		
retrograde	-10645 May 06 j 17:17	16°♏44'42		
opposition	-10645 Jul 24 j 11:36	15°♏19'42	-2°10'59	
min. Earth dist.	-10645 Jul 23 j 23:25	15°♏20'34	28.85920 AU	
	-10645 Aug 05 j 03:19	15°℞♏		
direct	-10645 Oct 09 j 22:03	13°♏55'37		
	-10645 Dec 12 j 12:12	15°♏		
evening set	-10644 Jan 06 j 00:41	15°♏49'56		
conjunction	-10644 Jan 22 j 05:26	16°♏25'52	-2°04'28	
minimum elong	-10644 Jan 22 j 05:25	16°♏25'52	2°04'51	
max. Earth dist.	-10644 Jan 22 j 17:35	16°♏27'00	30.85760 AU	
morning rise	-10644 Feb 07 j 12:10	17°♏01'59		
retrograde	-10644 May 08 j 05:53	18°♏59'45		
opposition	-10644 Jul 25 j 22:28	17°♏34'47	-2°15'14	
min. Earth dist.	-10644 Jul 25 j 12:10	17°♏35'31	28.85884 AU	
direct	-10644 Oct 11 j 09:48	16°♏10'37		
evening set	-10643 Jan 07 j 15:11	18°♏05'02		
conjunction	-10643 Jan 23 j 20:13	18°♏40'58	-2°08'20	
minimum elong	-10643 Jan 23 j 20:12	18°♏40'58	2°08'44	
max. Earth dist.	-10643 Jan 24 j 08:02	18°♏42'04	30.85683 AU	
morning rise	-10643 Feb 09 j 02:45	19°♏17'04		

Attention, astronomical year style is used: The year -10643 in astronomical counting style is the year 10644 BCE in historical counting style.

retrograde	-10643 May 10 j 18:43	21°♑14'43	
opposition	-10643 Jul 28 j 09:01	19°♑49'46	-2°19'16
min. Earth dist.	-10643 Jul 27 j 23:07	19°♑50'28	28.85778 AU
direct	-10643 Oct 13 j 23:05	18°♑25'30	
evening set	-10642 Jan 10 j 05:55	20°♑20'01	
conjunction	-10642 Jan 26 j 10:52	20°♑55'57	-2°12'01
minimum elong	-10642 Jan 26 j 10:51	20°♑55'57	2°12'28
max. Earth dist.	-10642 Jan 26 j 20:27	20°♑56'50	30.85560 AU
morning rise	-10642 Feb 11 j 17:30	21°♑32'02	
retrograde	-10642 May 13 j 08:40	23°♑29'33	
opposition	-10642 Jul 30 j 19:41	22°♑04'37	-2°23'06
min. Earth dist.	-10642 Jul 30 j 11:03	22°♑05'14	28.85670 AU
direct	-10642 Oct 16 j 11:02	20°♑40'15	
evening set	-10641 Jan 12 j 20:22	22°♑34'51	
conjunction	-10641 Jan 29 j 01:30	23°♑10'47	-2°15'30
minimum elong	-10641 Jan 29 j 01:29	23°♑10'47	2°15'57
max. Earth dist.	-10641 Jan 29 j 11:19	23°♑11'42	30.85448 AU
morning rise	-10641 Feb 14 j 07:50	23°♑46'52	
retrograde	-10641 May 15 j 20:05	25°♑44'15	
opposition	-10641 Aug 02 j 06:12	24°♑19'20	-2°26'43
min. Earth dist.	-10641 Aug 01 j 22:26	24°♑19'53	28.85588 AU
direct	-10641 Oct 18 j 23:44	22°♑54'53	
evening set	-10640 Jan 15 j 10:57	24°♑49'35	
conjunction	-10640 Jan 31 j 16:00	25°♑25'30	-2°18'47
minimum elong	-10640 Jan 31 j 15:59	25°♑25'30	2°19'15
max. Earth dist.	-10640 Jan 31 j 23:56	25°♑26'15	30.85407 AU
morning rise	-10640 Feb 16 j 22:23	26°♑01'34	
retrograde	-10640 May 17 j 08:50	27°♑58'50	
opposition	-10640 Aug 03 j 16:39	26°♑33'56	-2°30'06
min. Earth dist.	-10640 Aug 03 j 09:14	26°♑34'28	28.85610 AU
direct	-10640 Oct 20 j 11:08	25°♑09'24	
evening set	-10639 Jan 17 j 01:25	27°♑04'13	
conjunction	-10639 Feb 02 j 06:38	27°♑40'08	-2°21'51
minimum elong	-10639 Feb 02 j 06:37	27°♑40'08	2°22'18
max. Earth dist.	-10639 Feb 02 j 14:36	27°♑40'53	30.85468 AU
morning rise	-10639 Feb 18 j 12:47	28°♑16'11	
	-10639 Apr 21 j 13:38	0°♐	
retrograde	-10639 May 19 j 19:30	0°♐13'19	
	-10639 Jun 17 j 06:20	30°℞♑	
opposition	-10639 Aug 06 j 03:12	28°♑48'29	-2°33'16
min. Earth dist.	-10639 Aug 05 j 21:06	28°♑48'55	28.85739 AU
direct	-10639 Oct 22 j 22:26	27°♑23'53	
evening set	-10638 Jan 19 j 16:04	29°♑18'49	
conjunction	-10638 Feb 04 j 21:14	29°♑54'45	-2°24'41
minimum elong	-10638 Feb 04 j 21:13	29°♑54'44	2°25'11
max. Earth dist.	-10638 Feb 05 j 03:44	29°♑55'21	30.85664 AU
	-10638 Feb 07 j 05:38	0°♐	
morning rise	-10638 Feb 21 j 03:19	0°♐30'46	
retrograde	-10638 May 22 j 08:51	2°♐27'48	
opposition	-10638 Aug 08 j 13:32	1°♐03'02	-2°36'11
min. Earth dist.	-10638 Aug 08 j 07:14	1°♐03'29	28.86006 AU
	-10638 Sep 19 j 03:17	30°℞♑	
direct	-10638 Oct 25 j 09:32	29°♑38'23	
	-10638 Nov 30 j 08:35	0°♐	
evening set	-10637 Jan 22 j 06:44	1°♐33'28	
conjunction	-10637 Feb 07 j 11:54	2°♐09'23	-2°27'19
minimum elong	-10637 Feb 07 j 11:53	2°♐09'23	2°27'48
max. Earth dist.	-10637 Feb 07 j 17:49	2°♐09'56	30.85984 AU
morning rise	-10637 Feb 23 j 17:46	2°♐45'23	
retrograde	-10637 May 24 j 19:14	4°♐42'20	
opposition	-10637 Aug 11 j 00:08	3°♐17'40	-2°38'52
min. Earth dist.	-10637 Aug 10 j 19:30	3°♐18'00	28.86399 AU
direct	-10637 Oct 27 j 20:06	1°♐52'59	
evening set	-10636 Jan 24 j 21:12	3°♐48'12	
conjunction	-10636 Feb 10 j 02:26	4°♐24'07	-2°29'43
minimum elong	-10636 Feb 10 j 02:25	4°♐24'07	2°30'14
max. Earth dist.	-10636 Feb 10 j 07:42	4°♐24'36	30.86433 AU
morning rise	-10636 Feb 26 j 08:09	5°♐00'06	
retrograde	-10636 May 26 j 07:59	6°♐56'58	
opposition	-10636 Aug 12 j 10:30	5°♐32'24	-2°41'19
min. Earth dist.	-10636 Aug 12 j 05:49	5°♐32'44	28.86887 AU
direct	-10636 Oct 29 j 09:21	4°♐07'42	
evening set	-10635 Jan 26 j 12:04	6°♐03'05	
conjunction	-10635 Feb 11 j 17:11	6°♐39'00	-2°31'53
minimum elong	-10635 Feb 11 j 17:10	6°♐39'00	2°32'24
max. Earth dist.	-10635 Feb 11 j 20:54	6°♐39'21	30.86941 AU
morning rise	-10635 Feb 27 j 22:47	7°♐14'58	
retrograde	-10635 May 28 j 20:09	9°♐11'46	
opposition	-10635 Aug 14 j 20:57	7°♐47'17	-2°43'31
min. Earth dist.	-10635 Aug 14 j 18:08	7°♐47'29	28.87420 AU
direct	-10635 Oct 31 j 20:27	6°♐22'34	
evening set	-10634 Jan 29 j 02:54	8°♐18'07	
conjunction	-10634 Feb 14 j 08:08	8°♐54'01	-2°33'50
minimum elong	-10634 Feb 14 j 08:08	8°♐54'01	2°34'22
max. Earth dist.	-10634 Feb 14 j 11:24	8°♐54'20	30.87466 AU
morning rise	-10634 Mar 02 j 13:27	9°♐29'59	
retrograde	-10634 May 31 j 09:06	11°♐26'40	
opposition	-10634 Aug 17 j 07:26	10°♐02'19	-2°45'27
min. Earth dist.	-10634 Aug 17 j 05:08	10°♐02'28	28.87924 AU
direct	-10634 Nov 03 j 09:33	8°♐37'34	
evening set	-10633 Jan 31 j 17:50	10°♐33'16	
conjunction	-10633 Feb 16 j 22:50	11°♐09'10	-2°35'32
minimum elong	-10633 Feb 16 j 22:49	11°♐09'09	2°36'04
max. Earth dist.	-10633 Feb 16 j 23:44	11°♐09'14	30.87932 AU
morning rise	-10633 Mar 05 j 04:04	11°♐45'06	
retrograde	-10633 Jun 02 j 23:12	13°♐41'42	
opposition	-10633 Aug 19 j 18:02	12°♐17'24	-2°47'09
min. Earth dist.	-10633 Aug 19 j 17:07	12°♐17'28	28.88365 AU
direct	-10633 Nov 05 j 22:02	10°♐52'38	
evening set	-10632 Feb 03 j 08:39	12°♐48'26	
conjunction	-10632 Feb 19 j 13:48	13°♐24'21	-2°37'00
minimum elong	-10632 Feb 19 j 13:48	13°♐24'21	2°37'34
max. Earth dist.	-10632 Feb 19 j 14:26	13°♐24'24	30.88318 AU
morning rise	-10632 Mar 06 j 18:40	14°♐00'15	
retrograde	-10632 Jun 04 j 10:41	15°♐56'43	
opposition	-10632 Aug 21 j 04:31	14°♐32'30	-2°48'36
min. Earth dist.	-10632 Aug 21 j 04:54	14°♐32'29	28.88701 AU
direct	-10632 Nov 07 j 11:31	13°♐07'40	
evening set	-10631 Feb 04 j 23:38	15°♐03'35	
conjunction	-10631 Feb 21 j 04:36	15°♐39'29	-2°38'14
minimum elong	-10631 Feb 21 j 04:36	15°♐39'29	2°38'47
max. Earth dist.	-10631 Feb 21 j 02:45	15°♐39'18	30.88612 AU
morning rise	-10631 Mar 09 j 09:28	16°♐15'22	
retrograde	-10631 Jun 06 j 23:54	18°♐11'42	
opposition	-10631 Aug 23 j 15:00	16°♐47'32	-2°49'47
min. Earth dist.	-10631 Aug 23 j 16:10	16°♐47'27	28.88958 AU
direct	-10631 Nov 09 j 23:49	15°♐22'36	
evening set	-10630 Feb 07 j 14:27	17°♐18'37	
conjunction	-10630 Feb 23 j 19:31	17°♐54'30	-2°39'13
minimum elong	-10630 Feb 23 j 19:31	17°♐54'30	2°39'48
max. Earth dist.	-10630 Feb 23 j 17:20	17°♐54'18	30.88825 AU

Attention, astronomical year style is used: The year -10630 in astronomical counting style is the year 10631 BCE in historical counting style.

morning rise	-10630 Mar 11 j 23:58	18°♐30'22	
retrograde	-10630 Jun 09 j 10:56	20°♐26'31	
opposition	-10630 Aug 26 j 01:27	19°♐02'24	-2°50'43
min. Earth dist.	-10630 Aug 26 j 04:22	19°♐02'12	28.89152 AU
direct	-10630 Nov 12 j 12:03	17°♐37'24	
evening set	-10629 Feb 10 j 05:15	19°♐33'28	
conjunction	-10629 Feb 26 j 10:10	20°♐09'21	-2°39'58
minimum elong	-10629 Feb 26 j 10:09	20°♐09'21	2°40'33
max. Earth dist.	-10629 Feb 26 j 06:05	20°♐08'58	30.89022 AU
morning rise	-10629 Mar 14 j 14:33	20°♐45'11	
retrograde	-10629 Jun 11 j 23:41	22°♐41'11	
opposition	-10629 Aug 28 j 11:47	21°♐17'05	-2°51'23
min. Earth dist.	-10629 Aug 28 j 14:41	21°♐16'53	28.89359 AU
direct	-10629 Nov 14 j 23:54	19°♐51'59	
evening set	-10628 Feb 12 j 19:44	21°♐48'08	
conjunction	-10628 Feb 29 j 00:39	22°♐23'59	-2°40'29
minimum elong	-10628 Feb 29 j 00:39	22°♐23'59	2°41'04
max. Earth dist.	-10628 Feb 28 j 20:01	22°♐23'34	30.89240 AU
morning rise	-10628 Mar 16 j 04:45	22°♐59'49	
retrograde	-10628 Jun 13 j 08:46	24°♐55'38	
opposition	-10628 Aug 29 j 22:12	23°♐31'35	-2°51'48
min. Earth dist.	-10628 Aug 30 j 02:56	23°♐31'15	28.89616 AU
direct	-10628 Nov 16 j 11:18	22°♐06'23	
evening set	-10627 Feb 14 j 10:20	24°♐02'36	
conjunction	-10627 Mar 02 j 15:12	24°♐38'27	-2°40'45
minimum elong	-10627 Mar 02 j 15:11	24°♐38'27	2°41'19
max. Earth dist.	-10627 Mar 02 j 09:39	24°♐37'56	30.89545 AU
morning rise	-10627 Mar 18 j 19:07	25°♐14'14	
retrograde	-10627 Jun 15 j 20:14	27°♐09'54	
opposition	-10627 Sep 01 j 08:22	25°♐45'53	-2°51'57
min. Earth dist.	-10627 Sep 01 j 12:56	25°♐45'34	28.89969 AU
direct	-10627 Nov 19 j 00:19	24°♐20'37	
evening set	-10626 Feb 17 j 00:56	26°♐16'54	
conjunction	-10626 Mar 05 j 05:39	26°♐52'45	-2°40'46
minimum elong	-10626 Mar 05 j 05:39	26°♐52'45	2°41'21
max. Earth dist.	-10626 Mar 04 j 22:59	26°♐52'07	30.89955 AU
morning rise	-10626 Mar 21 j 09:20	27°♐28'31	
retrograde	-10626 Jun 18 j 07:05	29°♐24'01	
opposition	-10626 Sep 03 j 18:47	28°♐00'04	-2°51'51
min. Earth dist.	-10626 Sep 04 j 00:48	27°♐59'38	28.90459 AU
direct	-10626 Nov 21 j 10:50	26°♐34'43	
evening set	-10625 Feb 19 j 15:12	28°♐31'06	
conjunction	-10625 Mar 07 j 19:56	29°♐06'55	-2°40'33
minimum elong	-10625 Mar 07 j 19:56	29°♐06'55	2°41'08
max. Earth dist.	-10625 Mar 07 j 13:13	29°♐06'18	30.90517 AU
morning rise	-10625 Mar 23 j 23:18	29°♐42'40	
	-10625 Apr 01 j 01:52	0°♑	
retrograde	-10625 Jun 20 j 18:19	1°♑38'02	
opposition	-10625 Sep 06 j 05:06	0°♑14'09	-2°51'29
min. Earth dist.	-10625 Sep 06 j 11:06	0°♑13'43	28.91084 AU
	-10625 Sep 14 j 12:36	30°℞♐	
direct	-10625 Nov 24 j 00:22	28°♐48'47	
	-10624 Jan 31 j 04:23	0°♑	
evening set	-10624 Feb 22 j 05:39	0°♑45'14	
conjunction	-10624 Mar 09 j 10:10	1°♑21'03	-2°40'05
minimum elong	-10624 Mar 09 j 10:10	1°♑21'03	2°40'41
max. Earth dist.	-10624 Mar 09 j 01:43	1°♑20'16	30.91215 AU
morning rise	-10624 Mar 25 j 13:26	1°♑56'47	
retrograde	-10624 Jun 22 j 06:55	3°♑52'01	
opposition	-10624 Sep 07 j 15:18	2°♑28'13	-2°50'51
min. Earth dist.	-10624 Sep 07 j 22:16	2°♑27'43	28.91850 AU
direct	-10624 Nov 25 j 12:26	1°♑02'49	
evening set	-10623 Feb 23 j 19:59	2°♑59'23	
conjunction	-10623 Mar 12 j 00:37	3°♑35'12	-2°39'22
minimum elong	-10623 Mar 12 j 00:37	3°♑35'12	2°39'59
max. Earth dist.	-10623 Mar 11 j 16:22	3°♑34'26	30.92030 AU
morning rise	-10623 Mar 28 j 03:31	4°♑10'54	
retrograde	-10623 Jun 24 j 18:03	6°♑06'01	
opposition	-10623 Sep 10 j 01:42	4°♑42'20	-2°49'57
min. Earth dist.	-10623 Sep 10 j 09:39	4°♑41'46	28.92689 AU
direct	-10623 Nov 28 j 01:46	3°♑16'56	
evening set	-10622 Feb 26 j 10:32	5°♑13'36	
conjunction	-10622 Mar 14 j 14:52	5°♑49'24	-2°38'25
minimum elong	-10622 Mar 14 j 14:52	5°♑49'25	2°39'01
max. Earth dist.	-10622 Mar 14 j 04:34	5°♑48'27	30.92896 AU
morning rise	-10622 Mar 30 j 17:39	6°♑25'05	
retrograde	-10622 Jun 27 j 07:23	8°♑20'05	
opposition	-10622 Sep 12 j 12:02	6°♑56'30	-2°48'48
min. Earth dist.	-10622 Sep 12 j 20:30	6°♑55'54	28.93563 AU
direct	-10622 Nov 30 j 13:54	5°♑31'06	
evening set	-10621 Mar 01 j 00:54	7°♑27'52	
conjunction	-10621 Mar 17 j 05:17	8°♑03'41	-2°37'14
minimum elong	-10621 Mar 17 j 05:17	8°♑03'41	2°37'50
max. Earth dist.	-10621 Mar 16 j 18:56	8°♑02'43	30.93753 AU
morning rise	-10621 Apr 02 j 07:39	8°♑39'20	
retrograde	-10621 Jun 29 j 18:47	10°♑34'12	
opposition	-10621 Sep 14 j 22:34	9°♑10'44	-2°47'24
min. Earth dist.	-10621 Sep 15 j 08:45	9°♑10'00	28.94396 AU
direct	-10621 Dec 03 j 02:31	7°♑45'20	
evening set	-10620 Mar 02 j 15:15	9°♑42'10	
conjunction	-10620 Mar 18 j 19:26	10°♑17'58	-2°35'48
minimum elong	-10620 Mar 18 j 19:26	10°♑17'58	2°36'23
max. Earth dist.	-10620 Mar 18 j 07:01	10°♑16'49	30.94559 AU
morning rise	-10620 Apr 03 j 21:44	10°♑53'37	
retrograde	-10620 Jul 01 j 07:31	12°♑48'21	
opposition	-10620 Sep 16 j 08:59	11°♑24'58	-2°45'45
min. Earth dist.	-10620 Sep 16 j 19:18	11°♑24'14	28.95150 AU
direct	-10620 Dec 04 j 15:05	9°♑59'32	
evening set	-10619 Mar 05 j 05:40	11°♑56'27	
conjunction	-10619 Mar 21 j 09:49	12°♑32'15	-2°34'08
minimum elong	-10619 Mar 21 j 09:49	12°♑32'15	2°34'43
max. Earth dist.	-10619 Mar 20 j 20:36	12°♑31'01	30.95259 AU
morning rise	-10619 Apr 06 j 11:44	13°♑07'52	
retrograde	-10619 Jul 03 j 17:07	15°♑02'27	
opposition	-10619 Sep 18 j 19:30	13°♑39'09	-2°43'51
min. Earth dist.	-10619 Sep 19 j 07:55	13°♑38'16	28.95804 AU
direct	-10619 Dec 07 j 02:41	12°♑13'40	
evening set	-10618 Mar 07 j 20:01	14°♑10'39	
max. Earth dist.	-10618 Mar 23 j 09:29	14°♑45'04	30.95883 AU
conjunction	-10618 Mar 24 j 00:01	14°♑46'26	-2°32'15
minimum elong	-10618 Mar 24 j 00:02	14°♑46'26	2°32'50
morning rise	-10618 Apr 09 j 01:46	15°♑22'01	
retrograde	-10618 Jul 06 j 04:39	17°♑16'27	
opposition	-10618 Sep 21 j 05:58	15°♑53'12	-2°41'43
min. Earth dist.	-10618 Sep 21 j 18:26	15°♑52'19	28.96380 AU
direct	-10618 Dec 09 j 15:34	14°♑27'41	
evening set	-10617 Mar 10 j 10:05	16°♑24'41	
conjunction	-10617 Mar 26 j 13:56	17°♑00'28	-2°30'08
minimum elong	-10617 Mar 26 j 13:56	17°♑00'28	2°30'43
max. Earth dist.	-10617 Mar 25 j 22:14	16°♑59'00	30.96435 AU
morning rise	-10617 Apr 11 j 15:24	17°♑36'02	

Attention, astronomical year style is used: The year -10617 in astronomical counting style is the year 10618 BCE in historical counting style.

retrograde	-10617 Jul 08 j 14:49	19°♓30'19	
opposition	-10617 Sep 23 j 16:28	18°♓07'07	-2°39'20
min. Earth dist.	-10617 Sep 24 j 06:35	18°♓06'07	28.96924 AU
direct	-10617 Dec 12 j 01:55	16°♓41'32	
evening set	-10616 Mar 12 j 00:02	18°♓38'35	
max. Earth dist.	-10616 Mar 27 j 11:53	19°♓12'51	30.96985 AU
conjunction	-10616 Mar 28 j 03:52	19°♓14'20	-2°27'48
minimum elong	-10616 Mar 28 j 03:53	19°♓14'20	2°28'23
morning rise	-10616 Apr 13 j 05:04	19°♓49'53	
retrograde	-10616 Jul 10 j 00:58	21°♓44'00	
opposition	-10616 Sep 25 j 02:43	20°♓20'51	-2°36'43
min. Earth dist.	-10616 Sep 25 j 17:05	20°♓19'50	28.97469 AU
direct	-10616 Dec 13 j 15:49	18°♓55'12	
evening set	-10615 Mar 14 j 14:04	20°♓52'17	
conjunction	-10615 Mar 30 j 17:39	21°♓28'01	-2°25'15
minimum elong	-10615 Mar 30 j 17:39	21°♓28'01	2°25'50
max. Earth dist.	-10615 Mar 29 j 23:58	21°♓26'23	30.97560 AU
morning rise	-10615 Apr 15 j 18:41	22°♓03'33	
retrograde	-10615 Jul 12 j 12:34	23°♓57'31	
opposition	-10615 Sep 27 j 13:10	22°♓34'24	-2°33'53
min. Earth dist.	-10615 Sep 28 j 04:20	22°♓33'20	28.98084 AU
direct	-10615 Dec 16 j 03:57	21°♓08'43	
evening set	-10614 Mar 17 j 03:44	23°♓05'49	
conjunction	-10614 Apr 02 j 07:18	23°♓41'33	-2°22'29
minimum elong	-10614 Apr 02 j 07:19	23°♓41'33	2°23'03
max. Earth dist.	-10614 Apr 01 j 14:06	23°♓39'57	30.98220 AU
morning rise	-10614 Apr 18 j 07:55	24°♓17'03	
retrograde	-10614 Jul 14 j 22:39	26°♓10'52	
opposition	-10614 Sep 29 j 23:38	24°♓47'48	-2°30'49
min. Earth dist.	-10614 Sep 30 j 15:28	24°♓46'41	28.98787 AU
direct	-10614 Dec 18 j 17:09	23°♓22'05	
evening set	-10613 Mar 19 j 17:28	25°♓19'14	
conjunction	-10613 Apr 04 j 20:43	25°♓54'56	-2°19'31
minimum elong	-10613 Apr 04 j 20:43	25°♓54'56	2°20'04
max. Earth dist.	-10613 Apr 04 j 01:56	25°♓53'12	30.99000 AU
morning rise	-10613 Apr 20 j 21:13	26°♓30'25	
retrograde	-10613 Jul 17 j 11:24	28°♓24'06	
opposition	-10613 Oct 02 j 10:00	27°♓01'06	-2°27'31
min. Earth dist.	-10613 Oct 03 j 01:45	27°♓00'00	28.99637 AU
direct	-10613 Dec 21 j 05:30	25°♓35'23	
evening set	-10612 Mar 21 j 06:52	27°♓32'33	
conjunction	-10612 Apr 06 j 10:10	28°♓08'16	-2°16'19
minimum elong	-10612 Apr 06 j 10:11	28°♓08'16	2°16'52
max. Earth dist.	-10612 Apr 05 j 16:01	28°♓06'34	30.99918 AU
morning rise	-10612 Apr 22 j 10:15	28°♓43'43	
	-10612 Jun 01 j 15:12	0°♒	
retrograde	-10612 Jul 18 j 22:26	0°♒37'16	
	-10612 Sep 05 j 07:01	30°℞♓	
opposition	-10612 Oct 03 j 20:31	29°♓14'22	-2°24'00
min. Earth dist.	-10612 Oct 04 j 13:28	29°♓13'10	29.00607 AU
direct	-10612 Dec 22 j 19:01	27°♓48'39	
evening set	-10611 Mar 23 j 20:30	29°♓45'52	
	-10611 Mar 30 j 07:10	0°♒	
conjunction	-10611 Apr 08 j 23:28	0°♒21'34	-2°12'56
minimum elong	-10611 Apr 08 j 23:29	0°♒21'34	2°13'29
max. Earth dist.	-10611 Apr 08 j 03:52	0°♒19'44	31.00961 AU
morning rise	-10611 Apr 24 j 23:27	0°♒57'00	
retrograde	-10611 Jul 21 j 10:33	2°♒50'26	
opposition	-10611 Oct 06 j 06:53	1°♒27'38	-2°20'16
min. Earth dist.	-10611 Oct 06 j 23:24	1°♒26'28	29.01684 AU
direct	-10611 Dec 25 j 07:59	0°♒01'57	
evening set	-10610 Mar 26 j 09:59	1°♒59'13	
conjunction	-10610 Apr 11 j 12:53	2°♒34'54	-2°09'21
minimum elong	-10610 Apr 11 j 12:54	2°♒34'54	2°09'52
max. Earth dist.	-10610 Apr 10 j 17:18	2°♒33'05	31.02075 AU
morning rise	-10610 Apr 27 j 12:26	3°♒10'19	
retrograde	-10610 Jul 23 j 20:35	5°♒03'39	
opposition	-10610 Oct 08 j 17:35	3°♒40'58	-2°16'20
min. Earth dist.	-10610 Oct 09 j 11:44	3°♒39'41	29.02813 AU
direct	-10610 Dec 27 j 19:23	2°♒15'19	
evening set	-10609 Mar 28 j 23:18	4°♒12'37	
max. Earth dist.	-10609 Apr 13 j 05:27	4°♒46'23	31.03216 AU
conjunction	-10609 Apr 14 j 01:57	4°♒48'17	-2°05'34
minimum elong	-10609 Apr 14 j 01:57	4°♒48'17	2°06'05
morning rise	-10609 Apr 30 j 01:18	5°♒23'41	
retrograde	-10609 Jul 26 j 08:28	7°♒16'54	
opposition	-10609 Oct 11 j 04:09	5°♒54'19	-2°12'11
min. Earth dist.	-10609 Oct 11 j 22:09	5°♒53'03	29.03922 AU
direct	-10609 Dec 30 j 08:05	4°♒28'42	
evening set	-10608 Mar 30 j 12:46	6°♒26'01	
conjunction	-10608 Apr 15 j 15:12	7°♒01'42	-2°01'35
minimum elong	-10608 Apr 15 j 15:13	7°♒01'42	2°02'05
max. Earth dist.	-10608 Apr 14 j 17:46	6°♒59'42	31.04294 AU
morning rise	-10608 May 01 j 14:13	7°♒37'04	
retrograde	-10608 Jul 27 j 18:26	9°♒30'11	
opposition	-10608 Oct 12 j 14:49	8°♒07'41	-2°07'50
min. Earth dist.	-10608 Oct 13 j 10:27	8°♒06'18	29.04958 AU
direct	-10608 Dec 31 j 18:19	6°♒42'04	
evening set	-10607 Apr 02 j 02:11	8°♒39'25	
max. Earth dist.	-10607 Apr 17 j 06:36	9°♒13'02	31.05282 AU
conjunction	-10607 Apr 18 j 04:28	9°♒15'04	-1°57'26
minimum elong	-10607 Apr 18 j 04:29	9°♒15'04	1°57'56
morning rise	-10607 May 04 j 03:09	9°♒50'25	
retrograde	-10607 Jul 30 j 04:02	11°♒43'24	
opposition	-10607 Oct 15 j 01:37	10°♒20'59	-2°03'18
min. Earth dist.	-10607 Oct 15 j 21:32	10°♒19'35	29.05869 AU
direct	-10606 Jan 03 j 08:16	8°♒55'22	
evening set	-10606 Apr 04 j 15:31	10°♒52'42	
conjunction	-10606 Apr 20 j 17:26	11°♒28'20	-1°53'07
minimum elong	-10606 Apr 20 j 17:27	11°♒28'20	1°53'36
max. Earth dist.	-10606 Apr 19 j 17:53	11°♒26'09	31.06140 AU
morning rise	-10606 May 06 j 15:51	12°♒03'40	
retrograde	-10606 Aug 01 j 14:52	13°♒56'32	
opposition	-10606 Oct 17 j 12:27	12°♒34'09	-1°58'36
min. Earth dist.	-10606 Oct 18 j 09:15	12°♒32'41	29.06672 AU
direct	-10605 Jan 05 j 19:26	11°♒08'30	
evening set	-10605 Apr 07 j 04:38	13°♒05'50	
max. Earth dist.	-10605 Apr 22 j 07:08	13°♒39'16	31.06897 AU
conjunction	-10605 Apr 23 j 06:27	13°♒41'27	-1°48'38
minimum elong	-10605 Apr 23 j 06:28	13°♒41'27	1°49'07
morning rise	-10605 May 09 j 04:26	14°♒16'45	
	-10605 May 30 j 04:04	15°♒	
retrograde	-10605 Aug 04 j 00:32	16°♒09'29	
	-10605 Oct 12 j 06:28	15°℞♒	
opposition	-10605 Oct 19 j 23:13	14°♒47'08	-1°53'44
min. Earth dist.	-10605 Oct 20 j 20:57	14°♒45'36	29.07370 AU
direct	-10604 Jan 08 j 08:21	13°♒21'27	
	-10604 Mar 30 j 22:43	15°♒	
evening set	-10604 Apr 08 j 17:42	15°♒18'45	
conjunction	-10604 Apr 24 j 19:08	15°♒54'20	-1°44'00
minimum elong	-10604 Apr 24 j 19:09	15°♒54'21	1°44'27

Attention, astronomical year style is used: The year -10604 in astronomical counting style is the year 10605 BCE in historical counting style.

max. Earth dist.	-10604 Apr 23 j 18:05	15°♒52'00	31.07573 AU
morning rise	-10604 May 10 j 16:59	16°♒29'37	
retrograde	-10604 Aug 05 j 12:26	18°♒22'13	
opposition	-10604 Oct 21 j 09:55	16°♒59'53	-1°48'42
min. Earth dist.	-10604 Oct 22 j 07:44	16°♒58'22	29.08015 AU
direct	-10603 Jan 09 j 21:11	15°♒34'11	
evening set	-10603 Apr 11 j 06:32	17°♒31'27	
max. Earth dist.	-10603 Apr 26 j 07:26	18°♒04'45	31.08205 AU
conjunction	-10603 Apr 27 j 07:51	18°♒07'01	-1°39'13
minimum elong	-10603 Apr 27 j 07:52	18°♒07'01	1°39'39
morning rise	-10603 May 13 j 05:10	18°♒42'15	
retrograde	-10603 Aug 07 j 22:28	20°♒34'44	
opposition	-10603 Oct 23 j 20:46	19°♒12'25	-1°43'30
min. Earth dist.	-10603 Oct 24 j 19:48	19°♒10'48	29.08637 AU
direct	-10602 Jan 12 j 11:03	17°♒46'41	
evening set	-10602 Apr 13 j 19:21	19°♒43'56	
conjunction	-10602 Apr 29 j 20:13	20°♒19'28	-1°34'18
minimum elong	-10602 Apr 29 j 20:14	20°♒19'28	1°34'42
max. Earth dist.	-10602 Apr 28 j 18:36	20°♒17'05	31.08856 AU
morning rise	-10602 May 15 j 17:21	20°♒54'41	
retrograde	-10602 Aug 10 j 10:04	22°♒47'03	
opposition	-10602 Oct 26 j 07:32	21°♒24'45	-1°38'10
min. Earth dist.	-10602 Oct 27 j 05:47	21°♒23'11	29.09308 AU
direct	-10601 Jan 15 j 00:20	19°♒59'00	
evening set	-10601 Apr 16 j 07:44	21°♒56'13	
max. Earth dist.	-10601 May 01 j 07:18	22°♒29'23	31.09565 AU
conjunction	-10601 May 02 j 08:25	22°♒31'44	-1°29'14
minimum elong	-10601 May 02 j 08:25	22°♒31'44	1°29'39
morning rise	-10601 May 18 j 05:03	23°♒06'55	
retrograde	-10601 Aug 12 j 19:44	24°♒59'11	
opposition	-10601 Oct 28 j 18:27	23°♒36'55	-1°32'42
min. Earth dist.	-10601 Oct 29 j 17:51	23°♒35'17	29.10061 AU
direct	-10600 Jan 17 j 12:29	22°♒11'11	
evening set	-10600 Apr 17 j 20:15	24°♒08'22	
conjunction	-10600 May 03 j 20:33	24°♒43'52	-1°24'03
minimum elong	-10600 May 03 j 20:33	24°♒43'52	1°24'26
max. Earth dist.	-10600 May 02 j 19:01	24°♒41'29	31.10383 AU
morning rise	-10600 May 19 j 16:55	25°♒19'01	
retrograde	-10600 Aug 14 j 06:59	27°♒11'12	
opposition	-10600 Oct 30 j 05:06	25°♒49'00	-1°27'06
min. Earth dist.	-10600 Oct 31 j 03:45	25°♒47'25	29.10917 AU
direct	-10599 Jan 19 j 01:41	24°♒23'17	
evening set	-10599 Apr 20 j 08:43	26°♒20'28	
max. Earth dist.	-10599 May 05 j 07:02	26°♒53'33	31.11299 AU
conjunction	-10599 May 06 j 08:41	26°♒55'57	-1°18'45
minimum elong	-10599 May 06 j 08:41	26°♒55'57	1°19'08
morning rise	-10599 May 22 j 04:36	27°♒31'05	
retrograde	-10599 Aug 16 j 16:42	29°♒23'12	
opposition	-10599 Nov 01 j 16:05	28°♒01'04	-1°21'21
min. Earth dist.	-10599 Nov 02 j 15:35	27°♒59'26	29.11883 AU
direct	-10598 Jan 21 j 12:08	26°♒35'24	
evening set	-10598 Apr 22 j 20:56	28°♒32'35	
conjunction	-10598 May 08 j 20:34	29°♒08'03	-1°13'19
minimum elong	-10598 May 08 j 20:35	29°♒08'03	1°13'41
max. Earth dist.	-10598 May 07 j 19:23	29°♒05'42	31.12314 AU
morning rise	-10598 May 24 j 16:06	29°♒43'09	
	-10598 Jun 01 j 12:43	0°♓	
retrograde	-10598 Aug 19 j 01:50	1°♓35'14	
opposition	-10598 Nov 04 j 03:04	0°♓13'11	-1°15'30
min. Earth dist.	-10598 Nov 05 j 02:14	0°♓11'34	29.12905 AU
	-10598 Nov 12 j 01:18	30°♑℞♒	
direct	-10597 Jan 24 j 01:18	28°♒47'35	
	-10597 Apr 03 j 14:39	0°♓	
evening set	-10597 Apr 25 j 09:16	0°♓44'46	
max. Earth dist.	-10597 May 10 j 06:16	1°♓17'47	31.13356 AU
conjunction	-10597 May 11 j 08:26	1°♓20'13	-1°07'47
minimum elong	-10597 May 11 j 08:27	1°♓20'13	1°08'08
morning rise	-10597 May 27 j 03:38	1°♓55'18	
retrograde	-10597 Aug 21 j 12:34	3°♓47'21	
opposition	-10597 Nov 06 j 13:58	2°♓25'22	-1°09'32
min. Earth dist.	-10597 Nov 07 j 13:33	2°♓23'44	29.13949 AU
direct	-10596 Jan 26 j 11:03	0°♓59'50	
evening set	-10596 Apr 26 j 21:24	2°♓57'02	
conjunction	-10596 May 12 j 20:21	3°♓32'27	-1°02'09
minimum elong	-10596 May 12 j 20:21	3°♓32'27	1°02'28
max. Earth dist.	-10596 May 11 j 18:49	3°♓30'04	31.14380 AU
morning rise	-10596 May 28 j 15:01	4°♓07'31	
retrograde	-10596 Aug 22 j 22:10	5°♓59'32	
opposition	-10596 Nov 08 j 01:08	4°♓37'38	-1°03'28
min. Earth dist.	-10596 Nov 09 j 01:25	4°♓35'57	29.14920 AU
direct	-10595 Jan 27 j 23:07	3°♓12'09	
evening set	-10595 Apr 29 j 09:43	5°♓09'20	
max. Earth dist.	-10595 May 14 j 05:04	5°♓42'12	31.15310 AU
conjunction	-10595 May 15 j 08:02	5°♓44'43	-0°56'26
minimum elong	-10595 May 15 j 08:03	5°♓44'43	0°56'44
morning rise	-10595 May 31 j 02:24	6°♓19'46	
retrograde	-10595 Aug 25 j 09:59	8°♓11'45	
opposition	-10595 Nov 10 j 12:18	6°♓49'53	-0°57'18
min. Earth dist.	-10595 Nov 11 j 12:25	6°♓48'13	29.15796 AU
direct	-10594 Jan 30 j 11:23	5°♓24'27	
evening set	-10594 May 01 j 21:46	7°♓21'37	
conjunction	-10594 May 17 j 19:50	7°♓56'59	-0°50'38
minimum elong	-10594 May 17 j 19:51	7°♓56'59	0°50'54
max. Earth dist.	-10594 May 16 j 17:36	7°♓54'32	31.16123 AU
morning rise	-10594 Jun 02 j 13:34	8°♓31'59	
retrograde	-10594 Aug 27 j 20:06	10°♓23'56	
opposition	-10594 Nov 12 j 23:40	9°♓02'06	-0°51'04
min. Earth dist.	-10594 Nov 14 j 00:57	9°♓00'21	29.16541 AU
direct	-10593 Feb 02 j 00:37	7°♓36'41	
evening set	-10593 May 04 j 09:44	9°♓33'49	
max. Earth dist.	-10593 May 19 j 03:46	10°♓06'34	31.16816 AU
conjunction	-10593 May 20 j 07:14	10°♓09'08	-0°44'46
minimum elong	-10593 May 20 j 07:14	10°♓09'08	0°45'02
morning rise	-10593 Jun 05 j 00:43	10°♓44'07	
retrograde	-10593 Aug 30 j 07:35	12°♓36'00	
opposition	-10593 Nov 15 j 10:51	11°♓14'11	-0°44'45
min. Earth dist.	-10593 Nov 16 j 11:27	11°♓12'29	29.17166 AU
direct	-10592 Feb 04 j 13:25	9°♓48'46	
evening set	-10592 May 05 j 21:35	11°♓45'51	
conjunction	-10592 May 21 j 18:44	12°♓21'08	-0°38'50
minimum elong	-10592 May 21 j 18:45	12°♓21'08	0°39'04
max. Earth dist.	-10592 May 20 j 15:36	12°♓18'37	31.17385 AU
morning rise	-10592 Jun 06 j 11:37	12°♓56'05	
retrograde	-10592 Aug 31 j 17:35	14°♓47'55	
opposition	-10592 Nov 16 j 22:06	13°♓26'05	-0°38'24
min. Earth dist.	-10592 Nov 17 j 24:00	13°♓24'18	29.17689 AU
direct	-10591 Feb 06 j 02:30	12°♓00'40	
evening set	-10591 May 08 j 09:23	13°♓57'41	
max. Earth dist.	-10591 May 23 j 02:29	14°♓30'22	31.17885 AU
conjunction	-10591 May 24 j 05:59	14°♓32'56	-0°32'52
minimum elong	-10591 May 24 j 06:00	14°♓32'56	0°33'05

Attention, astronomical year style is used: The year -10591 in astronomical counting style is the year 10592 BCE in historical counting style.

morning rise	-10591 Jun 08 j 22:30	15°♓07'50	
retrograde	-10591 Sep 03 j 05:00	16°♓59'36	
opposition	-10591 Nov 19 j 09:24	15°♓37'46	-0°31'59
min. Earth dist.	-10591 Nov 20 j 10:28	15°♓36'02	29.18155 AU
direct	-10590 Feb 08 j 16:58	14°♓12'20	
evening set	-10590 May 10 j 20:51	16°♓09'17	
conjunction	-10590 May 26 j 16:58	16°♓44'30	-0°26'51
minimum elong	-10590 May 26 j 16:59	16°♓44'30	0°27'02
max. Earth dist.	-10590 May 25 j 13:34	16°♓41'56	31.18344 AU
morning rise	-10590 Jun 11 j 08:57	17°♓19'21	
retrograde	-10590 Sep 05 j 14:08	19°♓11'05	
opposition	-10590 Nov 21 j 20:47	17°♓49'13	-0°25'32
min. Earth dist.	-10590 Nov 22 j 22:29	17°♓47'27	29.18628 AU
direct	-10589 Feb 11 j 04:33	16°♓23'47	
evening set	-10589 May 13 j 08:14	18°♓20'39	
max. Earth dist.	-10589 May 28 j 01:17	18°♓53'20	31.18840 AU
conjunction	-10589 May 29 j 03:54	18°♓55'49	-0°20'48
minimum elong	-10589 May 29 j 03:54	18°♓55'49	0°20'59
morning rise	-10589 Jun 13 j 19:23	19°♓30'38	
retrograde	-10589 Sep 07 j 22:31	21°♓22'19	
opposition	-10589 Nov 24 j 07:59	20°♓00'26	-0°19'03
min. Earth dist.	-10589 Nov 25 j 09:00	19°♓58'43	29.19146 AU
direct	-10588 Feb 13 j 17:59	18°♓35'00	
evening set	-10588 May 14 j 19:37	20°♓31'48	
max. Earth dist.	-10588 May 29 j 11:33	21°♓04'24	31.19403 AU
conjunction	-10588 May 30 j 14:38	21°♓06'56	-0°14'45
minimum elong	-10588 May 30 j 14:39	21°♓06'56	0°14'53
behind sun begin	-10588 May 30 j 12:08	21°♓06'42	
behind sun end	-10588 May 30 j 17:09	21°♓07'09	
morning rise	-10588 Jun 15 j 05:42	21°♓41'43	
retrograde	-10588 Sep 09 j 08:38	23°♓33'22	
opposition	-10588 Nov 25 j 19:21	22°♓11'29	-0°12'33
min. Earth dist.	-10588 Nov 26 j 20:02	22°♓09'47	29.19767 AU
direct	-10587 Feb 15 j 04:20	20°♓46'04	
evening set	-10587 May 17 j 06:43	22°♓42'49	
max. Earth dist.	-10587 May 31 j 23:41	23°♓15'31	31.20077 AU
conjunction	-10587 Jun 02 j 01:20	23°♓17'55	-0°08'40
minimum elong	-10587 Jun 02 j 01:20	23°♓17'55	0°08'48
behind sun begin	-10587 Jun 01 j 19:45	23°♓17'25	
behind sun end	-10587 Jun 02 j 06:55	23°♓18'25	
morning rise	-10587 Jun 17 j 15:44	23°♓52'40	
retrograde	-10587 Sep 11 j 17:20	25°♓44'19	
opposition	-10587 Nov 28 j 06:51	24°♓22'27	-0°06'02
min. Earth dist.	-10587 Nov 29 j 07:26	24°♓20'45	29.20485 AU
direct	-10586 Feb 17 j 16:44	22°♓57'05	
evening set	-10586 May 19 j 17:57	24°♓53'47	
max. Earth dist.	-10586 Jun 03 j 09:36	25°♓26'23	31.20858 AU
conjunction	-10586 Jun 04 j 11:50	25°♓28'50	-0°02'35
minimum elong	-10586 Jun 04 j 11:50	25°♓28'50	0°02'41
behind sun begin	-10586 Jun 04 j 05:23	25°♓28'15	
behind sun end	-10586 Jun 04 j 18:17	25°♓29'24	
morning rise	-10586 Jun 20 j 01:53	26°♓03'33	
retrograde	-10586 Sep 14 j 04:22	27°♓55'13	
asc. node	-10586 Nov 03 j 16:01	27°♓15'51	
opposition	-10586 Nov 30 j 18:15	26°♓33'23	0°00'29
min. Earth dist.	-10586 Dec 01 j 17:51	26°♓31'46	29.21313 AU
direct	-10585 Feb 20 j 03:36	25°♓08'05	
evening set	-10585 May 22 j 04:49	27°♓04'45	
conjunction	-10585 Jun 06 j 22:19	27°♓39'46	0°03'40
minimum elong	-10585 Jun 06 j 22:20	27°♓39'47	0°03'35
behind sun begin	-10585 Jun 06 j 15:56	27°♓39'12	
behind sun end	-10585 Jun 07 j 04:45	27°♓40'21	
max. Earth dist.	-10585 Jun 05 j 21:36	27°♓37'28	31.21711 AU
morning rise	-10585 Jun 22 j 11:43	28°♓14'28	
	-10585 Aug 28 j 18:00	0°♈	
retrograde	-10585 Sep 16 j 14:02	0°♈06'10	
	-10585 Oct 05 j 18:19	30°℞♓	
opposition	-10585 Dec 03 j 05:51	28°♓44'22	0°07'01
min. Earth dist.	-10585 Dec 04 j 06:06	28°♓42'43	29.22176 AU
direct	-10584 Feb 22 j 15:15	27°♓19'09	
evening set	-10584 May 23 j 15:57	29°♓15'48	
max. Earth dist.	-10584 Jun 07 j 07:24	29°♓48'25	31.22578 AU
conjunction	-10584 Jun 08 j 08:43	29°♓50'47	0°09'45
minimum elong	-10584 Jun 08 j 08:42	29°♓50'47	0°09'42
behind sun begin	-10584 Jun 08 j 03:23	29°♓50'18	
behind sun end	-10584 Jun 08 j 14:02	29°♓51'15	
	-10584 Jun 12 j 11:06	0°♈	
morning rise	-10584 Jun 23 j 21:41	0°♈25'26	
retrograde	-10584 Sep 18 j 01:38	2°♈17'11	
opposition	-10584 Dec 04 j 17:20	0°♈55'26	0°13'32
min. Earth dist.	-10584 Dec 05 j 16:25	0°♈53'51	29.23023 AU
	-10583 Jan 10 j 11:41	30°℞♓	
direct	-10583 Feb 24 j 03:00	29°♓30'18	
	-10583 Apr 08 j 15:33	0°♈	
evening set	-10583 May 26 j 02:58	1°♈26'55	
conjunction	-10583 Jun 10 j 19:13	2°♈01'52	0°15'49
minimum elong	-10583 Jun 10 j 19:13	2°♈01'52	0°15'47
behind sun begin	-10583 Jun 10 j 17:52	2°♈01'44	
behind sun end	-10583 Jun 10 j 20:34	2°♈01'59	
max. Earth dist.	-10583 Jun 09 j 18:39	1°♈59'34	31.23389 AU
morning rise	-10583 Jun 26 j 07:31	2°♈36'29	
retrograde	-10583 Sep 20 j 12:19	4°♈28'17	
opposition	-10583 Dec 07 j 05:15	3°♈06'34	0°20'02
min. Earth dist.	-10583 Dec 08 j 05:14	3°♈04'56	29.23803 AU
direct	-10582 Feb 26 j 15:32	1°♈41'31	
evening set	-10582 May 28 j 13:53	3°♈38'06	
max. Earth dist.	-10582 Jun 12 j 04:51	4°♈10'42	31.24119 AU
conjunction	-10582 Jun 13 j 05:28	4°♈13'00	0°21'53
minimum elong	-10582 Jun 13 j 05:27	4°♈13'00	0°21'52
morning rise	-10582 Jun 28 j 17:16	4°♈47'35	
retrograde	-10582 Sep 22 j 24:00	6°♈39'26	
opposition	-10582 Dec 09 j 17:04	5°♈17'44	0°26'30
min. Earth dist.	-10582 Dec 10 j 16:03	5°♈16'10	29.24468 AU
direct	-10581 Mar 01 j 05:30	3°♈52'44	
evening set	-10581 May 31 j 00:51	5°♈49'18	
conjunction	-10581 Jun 15 j 15:48	6°♈24'09	0°27'54
minimum elong	-10581 Jun 15 j 15:48	6°♈24'09	0°27'54
max. Earth dist.	-10581 Jun 14 j 15:09	6°♈21'51	31.24716 AU
morning rise	-10581 Jul 01 j 03:03	6°♈58'42	
retrograde	-10581 Sep 25 j 09:56	8°♈50'36	
opposition	-10581 Dec 12 j 04:50	7°♈28'54	0°32'56
min. Earth dist.	-10581 Dec 13 j 04:30	7°♈27'17	29.25015 AU
direct	-10580 Mar 02 j 16:51	6°♈03'57	
evening set	-10580 Jun 01 j 11:43	8°♈00'27	
max. Earth dist.	-10580 Jun 16 j 02:09	8°♈33'01	31.25197 AU
conjunction	-10580 Jun 17 j 02:07	8°♈35'16	0°33'54
minimum elong	-10580 Jun 17 j 02:06	8°♈35'16	0°33'55
morning rise	-10580 Jul 02 j 12:45	9°♈09'46	
retrograde	-10580 Sep 26 j 18:49	11°♈01'42	
opposition	-10580 Dec 13 j 16:44	9°♈40'00	0°39'18
min. Earth dist.	-10580 Dec 14 j 15:49	9°♈38'25	29.25427 AU
direct	-10579 Mar 05 j 06:37	8°♈15'06	
evening set	-10579 Jun 03 j 22:26	10°♈11'31	

Attention, astronomical year style is used: The year -10579 in astronomical counting style is the year 10580 BCE in historical counting style.

max. Earth dist.	-10579 Jun 18 j 11:34	10°♈44'00	31.25557 AU	
conjunction	-10579 Jun 19 j 12:05	10°♈46'17	0°39'50	
minimum elong	-10579 Jun 19 j 12:05	10°♈46'17	0°39'52	
morning rise	-10579 Jul 04 j 22:16	11°♈20'45		
retrograde	-10579 Sep 29 j 05:17	13°♈12'44		
opposition	-10579 Dec 16 j 04:43	11°♈51'00	0°45'37	
min. Earth dist.	-10579 Dec 17 j 03:29	11°♈49'27	29.25758 AU	
direct	-10578 Mar 07 j 17:32	10°♈26'07		
evening set	-10578 Jun 06 j 08:57	12°♈22'28		
conjunction	-10578 Jun 21 j 22:08	12°♈57'12	0°45'42	
minimum elong	-10578 Jun 21 j 22:07	12°♈57'11	0°45'47	
max. Earth dist.	-10578 Jun 20 j 23:03	12°♈55'02	31.25853 AU	
morning rise	-10578 Jul 07 j 07:38	13°♈31'37		
retrograde	-10578 Oct 01 j 13:50	15°♈23'38		
opposition	-10578 Dec 18 j 16:40	14°♈01'52	0°51'51	
min. Earth dist.	-10578 Dec 19 j 15:23	14°♈00'19	29.26035 AU	
direct	-10577 Mar 10 j 06:22	12°♈37'00		
evening set	-10577 Jun 08 j 19:22	14°♈33'16		
max. Earth dist.	-10577 Jun 23 j 08:14	15°♈05'44	31.26127 AU	
conjunction	-10577 Jun 24 j 07:46	15°♈07'57	0°51'30	
minimum elong	-10577 Jun 24 j 07:45	15°♈07'57	0°51'36	
morning rise	-10577 Jul 09 j 16:54	15°♈42'20		
retrograde	-10577 Oct 04 j 00:14	17°♈34'24		
opposition	-10577 Dec 21 j 04:32	16°♈12'35	0°58'01	
min. Earth dist.	-10577 Dec 22 j 02:03	16°♈11'07	29.26326 AU	
direct	-10576 Mar 11 j 17:09	14°♈47'45		
evening set	-10576 Jun 10 j 05:36	16°♈43'56		
conjunction	-10576 Jun 25 j 17:29	17°♈18'34	0°57'13	
minimum elong	-10576 Jun 25 j 17:28	17°♈18'34	0°57'21	
max. Earth dist.	-10576 Jun 24 j 19:43	17°♈16'32	31.26426 AU	
morning rise	-10576 Jul 11 j 01:52	17°♈52'55		
retrograde	-10576 Oct 05 j 09:21	19°♈45'03		
opposition	-10576 Dec 22 j 16:37	18°♈23'11	1°04'06	
min. Earth dist.	-10576 Dec 23 j 14:16	18°♈21'43	29.26663 AU	
direct	-10575 Mar 14 j 04:13	16°♈58'24		
evening set	-10575 Jun 12 j 15:56	18°♈54'31		
max. Earth dist.	-10575 Jun 27 j 05:20	19°♈27'04	31.26811 AU	
conjunction	-10575 Jun 28 j 03:01	19°♈29'06	1°02'52	
minimum elong	-10575 Jun 28 j 03:00	19°♈29'06	1°03'00	
morning rise	-10575 Jul 13 j 10:59	20°♈03'25		
retrograde	-10575 Oct 07 j 20:41	21°♈55'37		
opposition	-10575 Dec 25 j 04:40	20°♈33'44	1°10'05	
min. Earth dist.	-10575 Dec 26 j 00:22	20°♈32'24	29.27100 AU	
direct	-10574 Mar 16 j 15:20	19°♈09'00		
evening set	-10574 Jun 15 j 01:57	21°♈05'04		
conjunction	-10574 Jun 30 j 12:29	21°♈39'36	1°08'25	
minimum elong	-10574 Jun 30 j 12:29	21°♈39'36	1°08'35	
max. Earth dist.	-10574 Jun 29 j 16:07	21°♈37'41	31.27286 AU	
morning rise	-10574 Jul 15 j 19:49	22°♈13'53		
retrograde	-10574 Oct 10 j 07:34	24°♈06'11		
opposition	-10574 Dec 27 j 16:54	22°♈44'18	1°15'57	
min. Earth dist.	-10574 Dec 28 j 12:48	22°♈42'57	29.27628 AU	
direct	-10573 Mar 19 j 03:32	21°♈19'39		
evening set	-10573 Jun 17 j 12:06	23°♈15'40		
conjunction	-10573 Jul 02 j 21:58	23°♈50'09	1°13'52	
minimum elong	-10573 Jul 02 j 21:58	23°♈50'09	1°14'02	
max. Earth dist.	-10573 Jul 02 j 02:19	23°♈48'18	31.27850 AU	
morning rise	-10573 Jul 18 j 04:49	24°♈24'23		
retrograde	-10573 Oct 12 j 19:25	26°♈16'47		
opposition	-10573 Dec 30 j 04:52	24°♈54'55	1°21'44	
min. Earth dist.	-10573 Dec 30 j 23:14	24°♈53'40	29.28208 AU	
direct	-10572 Mar 20 j 16:26	23°♈30'21		
evening set	-10572 Jun 18 j 22:14	25°♈26'20		
conjunction	-10572 Jul 04 j 07:26	26°♈00'47	1°19'13	
minimum elong	-10572 Jul 04 j 07:25	26°♈00'47	1°19'26	
max. Earth dist.	-10572 Jul 03 j 12:13	25°♈58'59	31.28431 AU	
morning rise	-10572 Jul 19 j 13:45	26°♈34'59		
retrograde	-10572 Oct 14 j 05:59	28°♈27'30		
opposition	-10572 Dec 31 j 17:14	27°♈05'38	1°27'24	
min. Earth dist.	-10571 Jan 01 j 11:42	27°♈04'23	29.28800 AU	
direct	-10571 Mar 23 j 03:15	25°♈41'10		
evening set	-10571 Jun 21 j 08:13	27°♈37'07		
conjunction	-10571 Jul 06 j 16:50	28°♈11'31	1°24'27	
minimum elong	-10571 Jul 06 j 16:49	28°♈11'31	1°24'41	
max. Earth dist.	-10571 Jul 05 j 22:59	28°♈09'50	31.28994 AU	
morning rise	-10571 Jul 21 j 22:32	28°♈45'41		
	-10571 Aug 29 j 13:23	0°♉		
retrograde	-10571 Oct 16 j 15:51	0°♉38'18		
	-10571 Dec 05 j 23:12	30°℞♈		
opposition	-10570 Jan 03 j 05:41	29°♈16'27	1°32'56	
min. Earth dist.	-10570 Jan 03 j 23:11	29°♈15'16	29.29325 AU	
direct	-10570 Mar 25 j 17:13	27°♈52'04		
evening set	-10570 Jun 23 j 18:23	29°♈47'58		
	-10570 Jun 29 j 04:36	0°♉		
max. Earth dist.	-10570 Jul 08 j 07:59	0°♉20'36	31.29467 AU	
conjunction	-10570 Jul 09 j 02:14	0°♉22'19	1°29'34	
minimum elong	-10570 Jul 09 j 02:13	0°♉22'19	1°29'50	
morning rise	-10570 Jul 24 j 07:32	0°♉56'28		
retrograde	-10570 Oct 19 j 03:26	2°♉49'12		
opposition	-10569 Jan 05 j 18:05	1°♉27'20	1°38'20	
min. Earth dist.	-10569 Jan 06 j 11:07	1°♉26'10	29.29761 AU	
direct	-10569 Mar 28 j 04:33	0°♉03'01		
evening set	-10569 Jun 26 j 04:21	1°♉58'52		
conjunction	-10569 Jul 11 j 11:45	2°♉33'10	1°34'34	
minimum elong	-10569 Jul 11 j 11:44	2°♉33'10	1°34'49	
max. Earth dist.	-10569 Jul 10 j 18:56	2°♉31'35	31.29821 AU	
morning rise	-10569 Jul 26 j 16:23	3°♉07'17		
retrograde	-10569 Oct 21 j 12:20	5°♉00'07		
opposition	-10568 Jan 08 j 06:40	3°♉38'14	1°43'36	
min. Earth dist.	-10568 Jan 08 j 23:38	3°♉37'05	29.30040 AU	
direct	-10568 Mar 29 j 17:31	2°♉13'59		
evening set	-10568 Jun 27 j 14:27	4°♉09'45		
conjunction	-10568 Jul 12 j 21:03	4°♉44'00	1°39'25	
minimum elong	-10568 Jul 12 j 21:02	4°♉44'00	1°39'43	
max. Earth dist.	-10568 Jul 12 j 03:40	4°♉42'22	31.30020 AU	
morning rise	-10568 Jul 28 j 01:20	5°♉18'05		
retrograde	-10568 Oct 22 j 22:54	7°♉11'02		
opposition	-10567 Jan 09 j 19:12	5°♉49'05	1°48'43	
min. Earth dist.	-10567 Jan 10 j 11:03	5°♉48'01	29.30174 AU	
direct	-10567 Apr 01 j 04:35	4°♉24'53		
evening set	-10567 Jun 30 j 00:21	6°♉20'34		
conjunction	-10567 Jul 15 j 06:30	6°♉54'47	1°44'08	
minimum elong	-10567 Jul 15 j 06:29	6°♉54'47	1°44'25	
max. Earth dist.	-10567 Jul 14 j 14:35	6°♉53'17	31.30071 AU	
morning rise	-10567 Jul 30 j 10:09	7°♉28'50		
retrograde	-10567 Oct 25 j 08:20	9°♉21'53		
opposition	-10566 Jan 12 j 07:58	7°♉59'53	1°53'40	
min. Earth dist.	-10566 Jan 13 j 00:09	7°♉58'47	29.30167 AU	
direct	-10566 Apr 03 j 15:56	6°♉35'42		
evening set	-10566 Jul 02 j 10:09	8°♉31'17		

Attention, astronomical year style is used: The year -10566 in astronomical counting style is the year 10567 BCE in historical counting style.

conjunction	-10566 Jul 17 j 15:37	9°♉05'27	1°48'41	
minimum elong	-10566 Jul 17 j 15:36	9°♉05'27	1°49'01	
max. Earth dist.	-10566 Jul 16 j 23:42	9°♉03'57	31.30008 AU	
morning rise	-10566 Aug 01 j 18:58	9°♉39'28		
retrograde	-10566 Oct 27 j 19:37	11°♉32'37		
opposition	-10565 Jan 14 j 20:31	10°♉10'32	1°58'28	
min. Earth dist.	-10565 Jan 15 j 10:59	10°♉09'34	29.30060 AU	
direct	-10565 Apr 06 j 03:31	8°♉46'23		
evening set	-10565 Jul 04 j 19:51	10°♉41'52		
max. Earth dist.	-10565 Jul 19 j 09:54	11°♉14'36	31.29853 AU	
conjunction	-10565 Jul 20 j 00:49	11°♉16'00	1°53'05	
minimum elong	-10565 Jul 20 j 00:48	11°♉16'00	1°53'25	
morning rise	-10565 Aug 04 j 03:38	11°♉49'59		
retrograde	-10565 Oct 30 j 06:18	13°♉43'13		
opposition	-10564 Jan 17 j 09:04	12°♉21'04	2°03'05	
min. Earth dist.	-10564 Jan 17 j 23:48	12°♉20'04	29.29900 AU	
direct	-10564 Apr 07 j 15:07	10°♉56'56		
evening set	-10564 Jul 06 j 05:28	12°♉52'20		
conjunction	-10564 Jul 21 j 09:51	13°♉26'25	1°57'19	
minimum elong	-10564 Jul 21 j 09:50	13°♉26'25	1°57'42	
max. Earth dist.	-10564 Jul 20 j 19:58	13°♉25'07	31.29688 AU	
morning rise	-10564 Aug 05 j 12:15	14°♉00'22		
	-10564 Sep 04 j 02:04	15°♉		
retrograde	-10564 Oct 31 j 17:49	15°♉53'42		
	-10564 Dec 31 j 21:50	15°℞♉		
opposition	-10563 Jan 18 j 21:41	14°♉31'29	2°07'31	
min. Earth dist.	-10563 Jan 19 j 10:32	14°♉30'37	29.29748 AU	
direct	-10563 Apr 10 j 03:38	13°♉07'22		
	-10563 Jul 07 j 09:32	15°♉		
evening set	-10563 Jul 08 j 14:56	15°♉02'42		
conjunction	-10563 Jul 23 j 18:42	15°♉36'45	2°01'24	
minimum elong	-10563 Jul 23 j 18:41	15°♉36'44	2°01'46	
max. Earth dist.	-10563 Jul 23 j 05:31	15°♉35'30	31.29550 AU	
morning rise	-10563 Aug 07 j 20:45	16°♉10'40		
retrograde	-10563 Nov 03 j 04:44	18°♉04'08		
opposition	-10562 Jan 21 j 10:27	16°♉41'51	2°11'47	
min. Earth dist.	-10562 Jan 21 j 22:52	16°♉41'00	29.29666 AU	
direct	-10562 Apr 12 j 14:21	15°♉17'47		
evening set	-10562 Jul 11 j 00:21	17°♉13'02		
conjunction	-10562 Jul 26 j 03:43	17°♉47'03	2°05'17	
minimum elong	-10562 Jul 26 j 03:42	17°♉47'03	2°05'41	
max. Earth dist.	-10562 Jul 25 j 16:25	17°♉45'59	31.29503 AU	
morning rise	-10562 Aug 10 j 05:16	18°♉20'56		
retrograde	-10562 Nov 05 j 14:54	20°♉14'32		
opposition	-10561 Jan 23 j 23:00	18°♉52'13	2°15'51	
min. Earth dist.	-10561 Jan 24 j 09:54	18°♉51'29	29.29663 AU	
direct	-10561 Apr 15 j 03:58	17°♉28'13		
evening set	-10561 Jul 13 j 09:49	19°♉23'26		
conjunction	-10561 Jul 28 j 12:33	19°♉57'25	2°09'00	
minimum elong	-10561 Jul 28 j 12:33	19°♉57'25	2°09'25	
max. Earth dist.	-10561 Jul 28 j 01:19	19°♉56'21	31.29536 AU	
morning rise	-10561 Aug 12 j 13:55	20°♉31'17		
retrograde	-10561 Nov 08 j 03:07	22°♉25'02		
opposition	-10560 Jan 26 j 11:41	21°♉02'41	2°19'44	
min. Earth dist.	-10560 Jan 26 j 21:29	21°♉02'02	29.29741 AU	
direct	-10560 Apr 16 j 15:08	19°♉38'47		
evening set	-10560 Jul 14 j 19:02	21°♉33'56		
conjunction	-10560 Jul 29 j 21:27	22°♉07'54	2°12'32	
minimum elong	-10560 Jul 29 j 21:26	22°♉07'54	2°12'59	
max. Earth dist.	-10560 Jul 29 j 12:18	22°♉07'02	31.29624 AU	
morning rise	-10560 Aug 13 j 22:17	22°♉41'45		
retrograde	-10560 Nov 09 j 12:23	24°♉35'40		
opposition	-10559 Jan 28 j 00:33	23°♉13'18	2°23'24	
min. Earth dist.	-10559 Jan 28 j 09:42	23°♉12'41	29.29840 AU	
direct	-10559 Apr 19 j 03:35	21°♉49'30		
evening set	-10559 Jul 17 j 04:29	23°♉44'37		
conjunction	-10559 Aug 01 j 06:17	24°♉18'32	2°15'53	
minimum elong	-10559 Aug 01 j 06:16	24°♉18'32	2°16'19	
max. Earth dist.	-10559 Jul 31 j 21:09	24°♉17'40	31.29725 AU	
morning rise	-10559 Aug 16 j 06:59	24°♉52'23		
retrograde	-10559 Nov 11 j 23:28	26°♉46'27		
opposition	-10558 Jan 30 j 13:25	25°♉24'05	2°26'53	
min. Earth dist.	-10558 Jan 30 j 21:02	25°♉23'35	29.29938 AU	
direct	-10558 Apr 21 j 14:21	24°♉00'22		
evening set	-10558 Jul 19 j 13:44	25°♉55'26		
conjunction	-10558 Aug 03 j 15:15	26°♉29'20	2°19'02	
minimum elong	-10558 Aug 03 j 15:14	26°♉29'20	2°19'30	
max. Earth dist.	-10558 Aug 03 j 07:49	26°♉28'38	31.29777 AU	
morning rise	-10558 Aug 18 j 15:32	27°♉03'10		
retrograde	-10558 Nov 14 j 09:30	28°♉57'25		
opposition	-10557 Feb 02 j 02:27	27°♉35'01	2°30'08	
min. Earth dist.	-10557 Feb 02 j 10:13	27°♉34'30	29.29955 AU	
direct	-10557 Apr 24 j 01:20	26°♉11'24		
evening set	-10557 Jul 21 j 23:12	28°♉06'23		
conjunction	-10557 Aug 06 j 00:13	28°♉40'16	2°21'59	
minimum elong	-10557 Aug 06 j 00:12	28°♉40'16	2°22'27	
max. Earth dist.	-10557 Aug 05 j 16:57	28°♉39'35	31.29738 AU	
morning rise	-10557 Aug 21 j 00:18	29°♉14'05		
	-10557 Sep 12 j 00:33	0°♊		
retrograde	-10557 Nov 16 j 21:11	1°♊08'29		
	-10556 Jan 26 j 22:50	30°℞♉		
opposition	-10556 Feb 04 j 15:15	29°♉46'04	2°33'11	
min. Earth dist.	-10556 Feb 04 j 21:16	29°♉45'40	29.29858 AU	
direct	-10556 Apr 25 j 12:32	28°♉22'30		
	-10556 Jul 15 j 08:05	0°♊		
evening set	-10556 Jul 23 j 08:38	0°♊17'26		
conjunction	-10556 Aug 07 j 09:17	0°♊51'17	2°24'44	
minimum elong	-10556 Aug 07 j 09:16	0°♊51'17	2°25'13	
max. Earth dist.	-10556 Aug 07 j 02:48	0°♊50'40	31.29561 AU	
morning rise	-10556 Aug 22 j 09:06	1°♊25'06		
retrograde	-10556 Nov 18 j 08:35	3°♊19'39		
opposition	-10555 Feb 06 j 04:28	1°♊57'10	2°36'01	
min. Earth dist.	-10555 Feb 06 j 10:47	1°♊56'44	29.29623 AU	
direct	-10555 Apr 27 j 23:16	0°♊33'38		
evening set	-10555 Jul 25 j 17:54	2°♊28'29		
conjunction	-10555 Aug 09 j 18:15	3°♊02'19	2°27'16	
minimum elong	-10555 Aug 09 j 18:14	3°♊02'19	2°27'46	
max. Earth dist.	-10555 Aug 09 j 12:44	3°♊01'48	31.29253 AU	
morning rise	-10555 Aug 24 j 17:51	3°♊36'07		
retrograde	-10555 Nov 20 j 20:29	5°♊30'48		
opposition	-10554 Feb 08 j 17:32	4°♊08'14	2°38'38	
min. Earth dist.	-10554 Feb 08 j 22:11	4°♊07'56	29.29241 AU	
direct	-10554 Apr 30 j 10:47	2°♊44'44		
evening set	-10554 Jul 28 j 03:17	4°♊39'30		
conjunction	-10554 Aug 12 j 03:15	5°♊13'18	2°29'36	
minimum elong	-10554 Aug 12 j 03:14	5°♊13'18	2°30'07	
max. Earth dist.	-10554 Aug 11 j 21:54	5°♊12'48	31.28799 AU	
morning rise	-10554 Aug 27 j 02:47	5°♊47'06		
retrograde	-10554 Nov 23 j 08:09	7°♊41'54		
opposition	-10553 Feb 11 j 06:31	6°♊19'14	2°41'00	
min. Earth dist.	-10553 Feb 11 j 11:11	6°♊18'56	29.28746 AU	
direct	-10553 May 02 j 21:30	4°♊55'45		

Attention, astronomical year style is used: The year -10553 in astronomical counting style is the year 10554 BCE in historical counting style.

evening set	-10553 Jul 30 j 12:25	6°♊50'24	
conjunction	-10553 Aug 14 j 12:15	7°♊24'11	2°31'43
minimum elong	-10553 Aug 14 j 12:15	7°♊24'11	2°32'15
max. Earth dist.	-10553 Aug 14 j 08:37	7°♊23'51	31.28253 AU
morning rise	-10553 Aug 29 j 11:32	7°♊57'58	
retrograde	-10553 Nov 25 j 19:17	9°♊52'52	
opposition	-10552 Feb 13 j 19:31	8°♊30'06	2°43'10
min. Earth dist.	-10552 Feb 13 j 22:51	8°♊29'53	29.28162 AU
direct	-10552 May 04 j 11:20	7°♊06'37	
evening set	-10552 Jul 31 j 21:30	9°♊01'10	
conjunction	-10552 Aug 15 j 20:55	9°♊34'56	2°33'37
minimum elong	-10552 Aug 15 j 20:55	9°♊34'55	2°34'10
max. Earth dist.	-10552 Aug 15 j 17:18	9°♊34'35	31.27652 AU
morning rise	-10552 Aug 30 j 20:16	10°♊08'42	
retrograde	-10552 Nov 27 j 07:57	12°♊03'42	
opposition	-10551 Feb 15 j 08:35	10°♊40'50	2°45'05
min. Earth dist.	-10551 Feb 15 j 10:48	10°♊40'41	29.27577 AU
direct	-10551 May 06 j 22:46	9°♊17'21	
evening set	-10551 Aug 03 j 06:28	11°♊11'47	
conjunction	-10551 Aug 18 j 05:50	11°♊45'32	2°35'18
minimum elong	-10551 Aug 18 j 05:50	11°♊45'32	2°35'50
max. Earth dist.	-10551 Aug 18 j 04:24	11°♊45'23	31.27075 AU
morning rise	-10551 Sep 02 j 04:56	12°♊19'18	
retrograde	-10551 Nov 29 j 17:15	14°♊14'25	
opposition	-10550 Feb 17 j 21:37	12°♊51'26	2°46'45
min. Earth dist.	-10550 Feb 17 j 22:55	12°♊51'21	29.27037 AU
direct	-10550 May 09 j 11:19	11°♊27'58	
evening set	-10550 Aug 05 j 15:29	13°♊22'18	
conjunction	-10550 Aug 20 j 14:32	13°♊56'02	2°36'46
minimum elong	-10550 Aug 20 j 14:32	13°♊56'02	2°37'19
max. Earth dist.	-10550 Aug 20 j 13:26	13°♊55'56	31.26581 AU
morning rise	-10550 Sep 04 j 13:46	14°♊29'48	
retrograde	-10550 Dec 02 j 04:36	16°♊25'02	
opposition	-10549 Feb 20 j 10:33	15°♊02'00	2°48'12
min. Earth dist.	-10549 Feb 20 j 09:56	15°♊02'02	29.26597 AU
direct	-10549 May 11 j 22:54	13°♊38'33	
evening set	-10549 Aug 08 j 00:24	15°♊32'48	
conjunction	-10549 Aug 22 j 23:24	16°♊06'32	2°38'00
minimum elong	-10549 Aug 22 j 23:24	16°♊06'32	2°38'33
max. Earth dist.	-10549 Aug 23 j 00:14	16°♊06'37	31.26178 AU
morning rise	-10549 Sep 06 j 22:30	16°♊40'18	
retrograde	-10549 Dec 04 j 14:49	18°♊35'41	
opposition	-10548 Feb 22 j 23:32	17°♊12'34	2°49'24
min. Earth dist.	-10548 Feb 22 j 22:34	17°♊12'38	29.26249 AU
direct	-10548 May 13 j 10:17	15°♊49'12	
evening set	-10548 Aug 09 j 09:23	17°♊43'22	
conjunction	-10548 Aug 24 j 08:13	18°♊17'05	2°39'00
minimum elong	-10548 Aug 24 j 08:13	18°♊17'05	2°39'35
max. Earth dist.	-10548 Aug 24 j 09:54	18°♊17'15	31.25884 AU
morning rise	-10548 Sep 08 j 07:25	18°♊50'53	
retrograde	-10548 Dec 06 j 02:28	20°♊46'24	
opposition	-10547 Feb 24 j 12:32	19°♊23'16	2°50'21
min. Earth dist.	-10547 Feb 24 j 09:16	19°♊23'29	29.25989 AU
direct	-10547 May 15 j 21:14	17°♊59'58	
evening set	-10547 Aug 11 j 18:14	19°♊54'04	
conjunction	-10547 Aug 26 j 17:00	20°♊27'47	2°39'47
minimum elong	-10547 Aug 26 j 17:00	20°♊27'47	2°40'21
max. Earth dist.	-10547 Aug 26 j 19:48	20°♊28'03	31.25642 AU
morning rise	-10547 Sep 10 j 16:18	21°♊01'35	
retrograde	-10547 Dec 08 j 13:54	22°♊57'17	
opposition	-10546 Feb 27 j 01:45	21°♊34'07	2°51'04
min. Earth dist.	-10546 Feb 26 j 22:26	21°♊34'20	29.25767 AU
direct	-10546 May 18 j 07:07	20°♊10'54	
evening set	-10546 Aug 14 j 03:14	22°♊04'56	
conjunction	-10546 Aug 29 j 02:03	22°♊38'40	2°40'20
minimum elong	-10546 Aug 29 j 02:03	22°♊38'40	2°40'55
max. Earth dist.	-10546 Aug 29 j 06:14	22°♊39'04	31.25421 AU
morning rise	-10546 Sep 13 j 01:23	23°♊12'29	
retrograde	-10546 Dec 11 j 01:57	25°♊08'20	
opposition	-10545 Mar 01 j 14:37	23°♊45'09	2°51'32
min. Earth dist.	-10545 Mar 01 j 09:32	23°♊45'30	29.25526 AU
direct	-10545 May 20 j 17:40	22°♊22'01	
evening set	-10545 Aug 16 j 12:22	24°♊16'00	
conjunction	-10545 Aug 31 j 11:03	24°♊49'44	2°40'39
minimum elong	-10545 Aug 31 j 11:02	24°♊49'44	2°41'13
max. Earth dist.	-10545 Aug 31 j 15:23	24°♊50'09	31.25148 AU
morning rise	-10545 Sep 15 j 10:38	25°♊23'34	
retrograde	-10545 Dec 13 j 14:47	27°♊19'36	
opposition	-10544 Mar 03 j 03:50	25°♊56'23	2°51'45
min. Earth dist.	-10544 Mar 02 j 22:42	25°♊56'43	29.25224 AU
direct	-10544 May 22 j 03:33	24°♊33'19	
evening set	-10544 Aug 17 j 21:19	26°♊27'15	
conjunction	-10544 Sep 01 j 20:10	27°♊00'59	2°40'44
minimum elong	-10544 Sep 01 j 20:10	27°♊00'59	2°41'20
max. Earth dist.	-10544 Sep 02 j 02:17	27°♊01'34	31.24792 AU
morning rise	-10544 Sep 16 j 19:46	27°♊34'50	
retrograde	-10544 Dec 15 j 03:09	29°♊31'01	
opposition	-10543 Mar 05 j 17:05	28°♊07'45	2°51'43
min. Earth dist.	-10543 Mar 05 j 10:45	28°♊08'11	29.24803 AU
direct	-10543 May 24 j 16:20	26°♊44'45	
evening set	-10543 Aug 20 j 06:36	28°♊38'37	
conjunction	-10543 Sep 04 j 05:21	29°♊12'23	2°40'35
minimum elong	-10543 Sep 04 j 05:21	29°♊12'23	2°41'10
max. Earth dist.	-10543 Sep 04 j 11:04	29°♊12'55	31.24312 AU
morning rise	-10543 Sep 19 j 05:20	29°♊46'15	
	-10543 Sep 25 j 11:52	0°♋	
retrograde	-10543 Dec 17 j 17:08	1°♋42'34	
opposition	-10542 Mar 08 j 06:18	0°♋19'15	2°51'26
min. Earth dist.	-10542 Mar 07 j 23:16	0°♋19'43	29.24265 AU
	-10542 Mar 20 j 06:38	30°℞♊	
direct	-10542 May 27 j 02:56	28°♊56'17	
	-10542 Jul 29 j 10:32	0°♋	
evening set	-10542 Aug 22 j 15:39	0°♋50'05	
conjunction	-10542 Sep 06 j 14:43	1°♋23'51	2°40'13
minimum elong	-10542 Sep 06 j 14:43	1°♋23'51	2°40'49
max. Earth dist.	-10542 Sep 06 j 22:04	1°♋24'33	31.23697 AU
morning rise	-10542 Sep 21 j 14:49	1°♋57'45	
retrograde	-10542 Dec 20 j 03:39	3°♋54'11	
opposition	-10541 Mar 10 j 19:32	2°♋30'47	2°50'55
min. Earth dist.	-10541 Mar 10 j 12:06	2°♋31'17	29.23575 AU
direct	-10541 May 29 j 15:18	1°♋07'51	
evening set	-10541 Aug 25 j 00:49	3°♋01'33	
conjunction	-10541 Sep 08 j 23:54	3°♋35'20	2°39'36
minimum elong	-10541 Sep 08 j 23:54	3°♋35'20	2°40'12
max. Earth dist.	-10541 Sep 09 j 07:09	3°♋36'01	31.22959 AU
morning rise	-10541 Sep 24 j 00:24	4°♋09'15	
retrograde	-10541 Dec 22 j 16:04	6°♋05'47	
opposition	-10540 Mar 12 j 08:36	4°♋42'19	2°50'09
min. Earth dist.	-10540 Mar 11 j 23:48	4°♋42'54	29.22787 AU
direct	-10540 May 31 j 03:27	3°♋19'23	
evening set	-10540 Aug 26 j 09:49	5°♋12'58	

Attention, astronomical year style is used: The year -10540 in astronomical counting style is the year 10541 BCE in historical counting style.

conjunction	-10540 Sep 10 j 09:10	5°♓46'46	2°38'46
minimum elong	-10540 Sep 10 j 09:10	5°♓46'46	2°39'23
max. Earth dist.	-10540 Sep 10 j 17:55	5°♓47'36	31.22133 AU
morning rise	-10540 Sep 25 j 09:56	6°♓20'44	
retrograde	-10540 Dec 24 j 03:13	8°♓17'22	
opposition	-10539 Mar 14 j 21:52	6°♓53'47	2°49'08
min. Earth dist.	-10539 Mar 14 j 13:02	6°♓54'23	29.21944 AU
direct	-10539 Jun 02 j 15:25	5°♓30'51	
evening set	-10539 Aug 28 j 18:46	7°♓24'19	
conjunction	-10539 Sep 12 j 18:20	7°♓58'09	2°37'43
minimum elong	-10539 Sep 12 j 18:20	7°♓58'09	2°38'18
max. Earth dist.	-10539 Sep 13 j 03:55	7°♓59'03	31.21300 AU
morning rise	-10539 Sep 27 j 19:30	8°♓32'08	
retrograde	-10539 Dec 26 j 14:27	10°♓28'52	
opposition	-10538 Mar 17 j 10:53	9°♓05'11	2°47'53
min. Earth dist.	-10538 Mar 16 j 23:58	9°♓05'55	29.21119 AU
direct	-10538 Jun 05 j 02:57	7°♓42'15	
evening set	-10538 Aug 31 j 03:51	9°♓35'38	
conjunction	-10538 Sep 15 j 03:37	10°♓09'28	2°36'26
minimum elong	-10538 Sep 15 j 03:37	10°♓09'28	2°37'01
max. Earth dist.	-10538 Sep 15 j 14:02	10°♓10'27	31.20496 AU
morning rise	-10538 Sep 30 j 05:12	10°♓43'29	
retrograde	-10538 Dec 29 j 01:07	12°♓40'19	
opposition	-10537 Mar 19 j 23:51	11°♓16'33	2°46'23
min. Earth dist.	-10537 Mar 19 j 12:52	11°♓17'18	29.20360 AU
direct	-10537 Jun 07 j 12:57	9°♓53'38	
evening set	-10537 Sep 02 j 12:49	11°♓46'55	
conjunction	-10537 Sep 17 j 12:58	12°♓20'47	2°34'55
minimum elong	-10537 Sep 17 j 12:58	12°♓20'47	2°35'29
max. Earth dist.	-10537 Sep 18 j 01:04	12°♓21'56	31.19789 AU
morning rise	-10537 Oct 02 j 14:52	12°♓54'50	
retrograde	-10537 Dec 31 j 12:45	14°♓51'46	
opposition	-10536 Mar 21 j 12:48	13°♓27'56	2°44'39
min. Earth dist.	-10536 Mar 20 j 23:41	13°♓28'50	29.19692 AU
direct	-10536 Jun 08 j 23:26	12°♓05'03	
evening set	-10536 Sep 03 j 21:48	13°♓58'15	
conjunction	-10536 Sep 18 j 22:07	14°♓32'09	2°33'10
minimum elong	-10536 Sep 18 j 22:08	14°♓32'09	2°33'46
max. Earth dist.	-10536 Sep 19 j 10:36	14°♓33'20	31.19173 AU
morning rise	-10536 Oct 04 j 00:38	15°♓06'14	
retrograde	-10535 Jan 02 j 01:43	17°♓03'19	
opposition	-10535 Mar 24 j 01:58	15°♓39'25	2°42'40
min. Earth dist.	-10535 Mar 23 j 12:30	15°♓40'20	29.19125 AU
direct	-10535 Jun 11 j 09:10	14°♓16'35	
evening set	-10535 Sep 06 j 06:47	16°♓09'42	
conjunction	-10535 Sep 21 j 07:40	16°♓43'37	2°31'12
minimum elong	-10535 Sep 21 j 07:40	16°♓43'38	2°31'47
max. Earth dist.	-10535 Sep 21 j 22:13	16°♓45'00	31.18647 AU
morning rise	-10535 Oct 06 j 10:30	17°♓17'46	
retrograde	-10534 Jan 04 j 14:15	19°♓14'57	
opposition	-10534 Mar 26 j 14:52	17°♓51'01	2°40'27
min. Earth dist.	-10534 Mar 26 j 00:01	17°♓52'01	29.18615 AU
direct	-10534 Jun 13 j 20:39	16°♓28'14	
evening set	-10534 Sep 08 j 16:00	18°♓21'18	
conjunction	-10534 Sep 23 j 17:07	18°♓55'15	2°29'01
minimum elong	-10534 Sep 23 j 17:07	18°♓55'15	2°29'37
max. Earth dist.	-10534 Sep 24 j 07:30	18°♓56'37	31.18163 AU
morning rise	-10534 Oct 08 j 20:40	19°♓29'26	
retrograde	-10533 Jan 07 j 04:26	21°♓26'45	
opposition	-10533 Mar 29 j 03:55	20°♓02'47	2°37'59
min. Earth dist.	-10533 Mar 28 j 12:19	20°♓03'50	29.18134 AU
direct	-10533 Jun 16 j 06:07	18°♓40'03	
evening set	-10533 Sep 11 j 01:07	20°♓33'04	
conjunction	-10533 Sep 26 j 02:45	21°♓07'03	2°26'36
minimum elong	-10533 Sep 26 j 02:46	21°♓07'03	2°27'10
max. Earth dist.	-10533 Sep 26 j 18:54	21°♓08'35	31.17667 AU
morning rise	-10533 Oct 11 j 06:40	21°♓41'16	
retrograde	-10532 Jan 09 j 16:04	23°♓38'42	
opposition	-10532 Mar 30 j 16:57	22°♓14'42	2°35'17
min. Earth dist.	-10532 Mar 30 j 00:54	22°♓15'48	29.17607 AU
direct	-10532 Jun 17 j 17:59	20°♓52'02	
evening set	-10532 Sep 12 j 10:32	22°♓44'59	
conjunction	-10532 Sep 27 j 12:30	23°♓19'00	2°23'59
minimum elong	-10532 Sep 27 j 12:31	23°♓19'00	2°24'33
max. Earth dist.	-10532 Sep 28 j 04:35	23°♓20'32	31.17124 AU
morning rise	-10532 Oct 12 j 17:05	23°♓53'17	
retrograde	-10531 Jan 11 j 06:31	25°♓50'49	
opposition	-10531 Apr 02 j 06:00	24°♓26'47	2°32'22
min. Earth dist.	-10531 Apr 01 j 12:49	24°♓27'56	29.17016 AU
direct	-10531 Jun 20 j 05:42	23°♓04'08	
evening set	-10531 Sep 14 j 19:56	24°♓57'01	
conjunction	-10531 Sep 29 j 22:26	25°♓31'06	2°21'08
minimum elong	-10531 Sep 29 j 22:27	25°♓31'06	2°21'41
max. Earth dist.	-10531 Sep 30 j 15:33	25°♓32'43	31.16471 AU
morning rise	-10531 Oct 15 j 03:35	26°♓05'25	
retrograde	-10530 Jan 13 j 18:43	28°♓03'04	
opposition	-10530 Apr 04 j 19:08	26°♓38'58	2°29'13
min. Earth dist.	-10530 Apr 04 j 02:23	26°♓40'06	29.16294 AU
direct	-10530 Jun 22 j 17:23	25°♓16'21	
evening set	-10530 Sep 17 j 05:29	27°♓09'09	
conjunction	-10530 Oct 02 j 08:32	27°♓43'16	2°18'06
minimum elong	-10530 Oct 02 j 08:33	27°♓43'16	2°18'39
max. Earth dist.	-10530 Oct 03 j 01:55	27°♓44'55	31.15694 AU
morning rise	-10530 Oct 17 j 14:17	28°♓17'39	
	-10530 Dec 16 j 09:05	0°♌	
retrograde	-10529 Jan 16 j 06:55	0°♌15'22	
	-10529 Feb 16 j 20:27	30°℞♓	
opposition	-10529 Apr 07 j 07:56	28°♓51'12	2°25'51
min. Earth dist.	-10529 Apr 06 j 13:47	28°♓52'26	29.15433 AU
direct	-10529 Jun 25 j 05:04	27°♓28'35	
evening set	-10529 Sep 19 j 15:06	29°♓21'19	
conjunction	-10529 Oct 04 j 18:36	29°♓55'28	2°14'51
minimum elong	-10529 Oct 04 j 18:37	29°♓55'28	2°15'23
max. Earth dist.	-10529 Oct 05 j 12:05	29°♓57'07	31.14766 AU
	-10529 Oct 06 j 18:27	0°♌	
morning rise	-10529 Oct 20 j 01:04	0°♌29'54	
retrograde	-10528 Jan 18 j 18:21	2°♌27'41	
opposition	-10528 Apr 08 j 21:02	1°♌03'26	2°22'17
min. Earth dist.	-10528 Apr 08 j 03:25	1°♌04'38	29.14441 AU
	-10528 May 23 j 00:43	30°℞♓	
direct	-10528 Jun 26 j 15:39	29°♓40'49	
	-10528 Jul 30 j 05:29	0°♌	
evening set	-10528 Sep 21 j 00:27	1°♌33'26	
conjunction	-10528 Oct 06 j 04:39	2°♌07'38	2°11'24
minimum elong	-10528 Oct 06 j 04:40	2°♌07'38	2°11'57
max. Earth dist.	-10528 Oct 06 j 23:23	2°♌09'25	31.13738 AU
morning rise	-10528 Oct 21 j 11:41	2°♌42'07	
retrograde	-10527 Jan 20 j 06:15	4°♌39'58	
opposition	-10527 Apr 11 j 09:55	3°♌15'37	2°18'30
min. Earth dist.	-10527 Apr 10 j 14:47	3°♌16'55	29.13358 AU
direct	-10527 Jun 29 j 03:03	1°♌52'58	
evening set	-10527 Sep 23 j 10:06	3°♌45'30	

Attention, astronomical year style is used: The year -10527 in astronomical counting style is the year 10528 BCE in historical counting style.

conjunction	-10527 Oct 08 j 14:45	4°♌19'44	2°07'47
minimum elong	-10527 Oct 08 j 14:45	4°♌19'44	2°08'17
max. Earth dist.	-10527 Oct 09 j 09:17	4°♌21'30	31.12641 AU
morning rise	-10527 Oct 23 j 22:39	4°♌54'17	
retrograde	-10526 Jan 22 j 18:43	6°♌52'11	
opposition	-10526 Apr 13 j 22:43	5°♌27'44	2°14'31
min. Earth dist.	-10526 Apr 13 j 03:48	5°♌29'02	29.12258 AU
direct	-10526 Jul 01 j 12:52	4°♌05'03	
evening set	-10526 Sep 25 j 19:36	5°♌57'31	
conjunction	-10526 Oct 11 j 01:01	6°♌31'47	2°03'58
minimum elong	-10526 Oct 11 j 01:02	6°♌31'48	2°04'29
max. Earth dist.	-10526 Oct 11 j 21:21	6°♌33'43	31.11554 AU
morning rise	-10526 Oct 26 j 09:27	7°♌06'23	
retrograde	-10525 Jan 25 j 06:36	9°♌04'21	
opposition	-10525 Apr 16 j 11:24	7°♌39'48	2°10'21
min. Earth dist.	-10525 Apr 15 j 15:16	7°♌41'11	29.11184 AU
direct	-10525 Jul 04 j 00:14	6°♌17'06	
evening set	-10525 Sep 28 j 05:11	8°♌09'30	
conjunction	-10525 Oct 13 j 11:02	8°♌43'49	1°59'58
minimum elong	-10525 Oct 13 j 11:03	8°♌43'49	2°00'27
max. Earth dist.	-10525 Oct 14 j 07:09	8°♌45'43	31.10528 AU
morning rise	-10525 Oct 28 j 20:19	9°♌18'28	
retrograde	-10524 Jan 27 j 20:23	11°♌16'30	
min. Earth dist.	-10524 Apr 17 j 03:15	9°♌53'19	29.10204 AU
opposition	-10524 Apr 18 j 00:07	9°♌51'53	2°05'59
direct	-10524 Jul 05 j 09:24	8°♌29'11	
evening set	-10524 Sep 29 j 14:47	10°♌21'31	
conjunction	-10524 Oct 14 j 21:23	10°♌55'54	1°55'47
minimum elong	-10524 Oct 14 j 21:24	10°♌55'54	1°56'17
max. Earth dist.	-10524 Oct 15 j 19:16	10°♌57'58	31.09600 AU
morning rise	-10524 Oct 30 j 07:17	11°♌30'36	
retrograde	-10523 Jan 29 j 08:30	13°♌28'43	
opposition	-10523 Apr 20 j 12:46	12°♌04'03	2°01'25
min. Earth dist.	-10523 Apr 19 j 15:18	12°♌05'31	29.09321 AU
direct	-10523 Jul 07 j 20:52	10°♌41'21	
evening set	-10523 Oct 02 j 00:29	12°♌33'38	
conjunction	-10523 Oct 17 j 07:42	13°♌08'04	1°51'26
minimum elong	-10523 Oct 17 j 07:43	13°♌08'05	1°51'54
max. Earth dist.	-10523 Oct 18 j 05:43	13°♌10'09	31.08787 AU
morning rise	-10523 Nov 01 j 18:28	13°♌42'50	
	-10523 Dec 11 j 17:45	15°♌	
retrograde	-10522 Jan 31 j 23:40	15°♌41'02	
	-10522 Mar 26 j 01:56	15°℞♌	
min. Earth dist.	-10522 Apr 22 j 02:38	14°♌17'52	29.08544 AU
opposition	-10522 Apr 23 j 01:21	14°♌16'19	1°56'41
direct	-10522 Jul 10 j 08:16	12°♌53'39	
evening set	-10522 Oct 04 j 10:19	14°♌45'55	
	-10522 Oct 10 j 17:50	15°♌	
conjunction	-10522 Oct 19 j 18:13	15°♌20'25	1°46'55
minimum elong	-10522 Oct 19 j 18:14	15°♌20'25	1°47'23
max. Earth dist.	-10522 Oct 20 j 17:19	15°♌22'36	31.08043 AU
morning rise	-10522 Nov 04 j 05:41	15°♌55'14	
retrograde	-10521 Feb 03 j 12:09	17°♌53'31	
opposition	-10521 Apr 25 j 13:52	16°♌28'47	1°51'46
min. Earth dist.	-10521 Apr 24 j 15:29	16°♌30'19	29.07823 AU
direct	-10521 Jul 12 j 19:14	15°♌06'09	
evening set	-10521 Oct 06 j 20:12	16°♌58'23	
conjunction	-10521 Oct 22 j 04:49	17°♌32'56	1°42'14
minimum elong	-10521 Oct 22 j 04:50	17°♌32'56	1°42'40
max. Earth dist.	-10521 Oct 23 j 04:31	17°♌35'11	31.07362 AU
morning rise	-10521 Nov 06 j 17:01	18°♌07'50	
retrograde	-10520 Feb 06 j 01:24	20°♌06'11	
min. Earth dist.	-10520 Apr 26 j 02:32	18°♌43'04	29.07139 AU
opposition	-10520 Apr 27 j 02:24	18°♌41'26	1°46'40
direct	-10520 Jul 14 j 06:41	17°♌18'50	
evening set	-10520 Oct 08 j 06:13	19°♌11'03	
conjunction	-10520 Oct 23 j 15:26	19°♌45'39	1°37'24
minimum elong	-10520 Oct 23 j 15:26	19°♌45'40	1°37'50
max. Earth dist.	-10520 Oct 24 j 15:13	19°♌47'55	31.06675 AU
morning rise	-10520 Nov 08 j 04:29	20°♌20'37	
retrograde	-10519 Feb 07 j 14:03	22°♌19'04	
opposition	-10519 Apr 29 j 15:05	20°♌54'17	1°41'25
min. Earth dist.	-10519 Apr 28 j 15:58	20°♌55'52	29.06432 AU
direct	-10519 Jul 16 j 17:17	19°♌31'43	
evening set	-10519 Oct 10 j 16:27	21°♌23'54	
conjunction	-10519 Oct 26 j 02:30	21°♌58'34	1°32'24
minimum elong	-10519 Oct 26 j 02:31	21°♌58'35	1°32'48
max. Earth dist.	-10519 Oct 27 j 03:17	22°♌00'55	31.05950 AU
morning rise	-10519 Nov 10 j 16:12	22°♌33'36	
retrograde	-10518 Feb 10 j 02:59	24°♌32'06	
min. Earth dist.	-10518 May 01 j 03:14	23°♌08'58	29.05654 AU
opposition	-10518 May 02 j 03:26	23°♌07'18	1°36'00
direct	-10518 Jul 19 j 04:44	21°♌44'44	
evening set	-10518 Oct 13 j 02:58	23°♌36'54	
conjunction	-10518 Oct 28 j 13:33	24°♌11'37	1°27'17
minimum elong	-10518 Oct 28 j 13:33	24°♌11'37	1°27'41
max. Earth dist.	-10518 Oct 29 j 13:32	24°♌13'53	31.05128 AU
morning rise	-10518 Nov 13 j 04:10	24°♌46'43	
retrograde	-10517 Feb 12 j 15:06	26°♌45'16	
opposition	-10517 May 04 j 16:02	25°♌20'25	1°30'27
min. Earth dist.	-10517 May 03 j 16:34	25°♌22'02	29.04777 AU
direct	-10517 Jul 21 j 14:25	23°♌57'51	
evening set	-10517 Oct 15 j 13:15	25°♌49'58	
conjunction	-10517 Oct 31 j 00:42	26°♌24'44	1°22'01
minimum elong	-10517 Oct 31 j 00:43	26°♌24'45	1°22'23
max. Earth dist.	-10517 Nov 01 j 01:54	26°♌27'07	31.04197 AU
morning rise	-10517 Nov 15 j 15:55	26°♌59'53	
retrograde	-10516 Feb 15 j 02:28	28°♌58'29	
min. Earth dist.	-10516 May 05 j 04:27	27°♌35'14	29.03775 AU
opposition	-10516 May 06 j 04:31	27°♌33'34	1°24'46
direct	-10516 Jul 23 j 01:39	26°♌10'58	
evening set	-10516 Oct 16 j 23:51	28°♌03'03	
conjunction	-10516 Nov 01 j 11:53	28°♌37'51	1°16'39
minimum elong	-10516 Nov 01 j 11:54	28°♌37'52	1°17'01
max. Earth dist.	-10516 Nov 02 j 12:08	28°♌40'09	31.03164 AU
morning rise	-10516 Nov 17 j 04:03	29°♌13'03	
	-10516 Dec 09 j 18:24	0°♍	
retrograde	-10515 Feb 16 j 16:19	1°♍11'40	
	-10515 Apr 30 j 14:32	30°℞♌	
opposition	-10515 May 08 j 16:54	29°♌46'40	1°18'57
min. Earth dist.	-10515 May 07 j 16:54	29°♌48'20	29.02702 AU
direct	-10515 Jul 25 j 10:48	28°♌24'00	
	-10515 Oct 12 j 01:00	0°♍	
evening set	-10515 Oct 19 j 10:22	0°♍16'02	
conjunction	-10515 Nov 03 j 23:16	0°♍50'54	1°11'09
minimum elong	-10515 Nov 03 j 23:16	0°♍50'54	1°11'29
max. Earth dist.	-10515 Nov 05 j 00:37	0°♍53'18	31.02064 AU
morning rise	-10515 Nov 19 j 16:05	1°♍26'09	
retrograde	-10514 Feb 19 j 04:02	3°♍24'47	
min. Earth dist.	-10514 May 10 j 05:11	2°♍01'21	29.01578 AU
opposition	-10514 May 11 j 05:09	1°♍59'41	1°13'01
direct	-10514 Jul 27 j 22:41	0°♍36'58	

Attention, astronomical year style is used: The year -10514 in astronomical counting style is the year 10515 BCE in historical counting style.

evening set	-10514 Oct 21 j 21:03	2°♑28'56	
conjunction	-10514 Nov 06 j 10:34	3°♑03'51	1°05'34
minimum elong	-10514 Nov 06 j 10:35	3°♑03'51	1°05'53
max. Earth dist.	-10514 Nov 07 j 11:35	3°♑06'13	31.00961 AU
morning rise	-10514 Nov 22 j 04:12	3°♑39'09	
retrograde	-10513 Feb 21 j 18:33	5°♑37'46	
opposition	-10513 May 13 j 17:11	4°♑12'36	1°07'00
min. Earth dist.	-10513 May 12 j 16:26	4°♑14'18	29.00493 AU
direct	-10513 Jul 30 j 09:49	2°♑49'48	
evening set	-10513 Oct 24 j 07:43	4°♑41'45	
conjunction	-10513 Nov 08 j 21:56	5°♑16'43	0°59'53
minimum elong	-10513 Nov 08 j 21:57	5°♑16'43	1°00'10
max. Earth dist.	-10513 Nov 09 j 23:47	5°♑19'09	30.99909 AU
morning rise	-10513 Nov 24 j 16:17	5°♑52'04	
retrograde	-10512 Feb 24 j 06:26	7°♑50'42	
min. Earth dist.	-10512 May 14 j 05:01	6°♑27'07	28.99491 AU
opposition	-10512 May 15 j 05:20	6°♑25'26	1°00'52
direct	-10512 Jul 31 j 20:35	5°♑02'36	
evening set	-10512 Oct 25 j 18:22	6°♑54'31	
conjunction	-10512 Nov 10 j 09:22	7°♑29'32	0°54'06
minimum elong	-10512 Nov 10 j 09:23	7°♑29'32	0°54'23
max. Earth dist.	-10512 Nov 11 j 11:43	7°♑32'01	30.98980 AU
morning rise	-10512 Nov 26 j 04:27	8°♑04'57	
retrograde	-10511 Feb 25 j 20:36	10°♑03'35	
opposition	-10511 May 17 j 17:20	8°♑38'16	0°54'38
min. Earth dist.	-10511 May 16 j 15:40	8°♑40'03	28.98616 AU
direct	-10511 Aug 03 j 08:31	7°♑15'24	
evening set	-10511 Oct 28 j 05:21	9°♑07'19	
conjunction	-10511 Nov 12 j 20:57	9°♑42'23	0°48'14
minimum elong	-10511 Nov 12 j 20:58	9°♑42'24	0°48'29
max. Earth dist.	-10511 Nov 13 j 23:15	9°♑44'52	30.98167 AU
morning rise	-10511 Nov 28 j 16:51	10°♑17'52	
retrograde	-10510 Feb 28 j 09:49	12°♑16'31	
min. Earth dist.	-10510 May 19 j 04:18	10°♑52'54	28.97870 AU
opposition	-10510 May 20 j 05:16	10°♑51'10	0°48'20
direct	-10510 Aug 05 j 19:12	9°♑28'18	
evening set	-10510 Oct 30 j 16:17	11°♑20'13	
conjunction	-10510 Nov 15 j 08:44	11°♑55'21	0°42'18
minimum elong	-10510 Nov 15 j 08:45	11°♑55'21	0°42'33
max. Earth dist.	-10510 Nov 16 j 12:07	11°♑57'55	30.97491 AU
morning rise	-10510 Dec 01 j 05:13	12°♑30'52	
retrograde	-10509 Mar 02 j 22:59	14°♑29'33	
opposition	-10509 May 22 j 17:09	13°♑04'13	0°41'56
min. Earth dist.	-10509 May 21 j 14:57	13°♑06'02	28.97237 AU
direct	-10509 Aug 08 j 06:55	11°♑41'21	
evening set	-10509 Nov 02 j 03:22	13°♑33'17	
conjunction	-10509 Nov 17 j 20:19	14°♑08'28	0°36'17
minimum elong	-10509 Nov 17 j 20:19	14°♑08'28	0°36'30
max. Earth dist.	-10509 Nov 18 j 23:06	14°♑10'59	30.96911 AU
morning rise	-10509 Dec 03 j 17:39	14°♑44'03	
retrograde	-10508 Mar 04 j 11:25	16°♑42'47	
min. Earth dist.	-10508 May 23 j 03:41	15°♑19'13	28.96696 AU
opposition	-10508 May 24 j 05:13	15°♑17'26	0°35'28
direct	-10508 Aug 09 j 16:18	13°♑54'36	
evening set	-10508 Nov 03 j 14:37	15°♑46'34	
conjunction	-10508 Nov 19 j 08:25	16°♑21'48	0°30'13
minimum elong	-10508 Nov 19 j 08:25	16°♑21'48	0°30'26
max. Earth dist.	-10508 Nov 20 j 12:27	16°♑24'26	30.96398 AU
morning rise	-10508 Dec 05 j 06:16	16°♑57'26	
retrograde	-10507 Mar 06 j 23:22	18°♑56'13	
opposition	-10507 May 26 j 17:00	17°♑30'54	0°28'57
min. Earth dist.	-10507 May 25 j 15:06	17°♑32'42	28.96187 AU
direct	-10507 Aug 12 j 03:08	16°♑08'04	
evening set	-10507 Nov 06 j 02:15	18°♑00'06	
conjunction	-10507 Nov 21 j 20:34	18°♑35'23	0°24'06
minimum elong	-10507 Nov 21 j 20:34	18°♑35'23	0°24'16
max. Earth dist.	-10507 Nov 22 j 23:24	18°♑37'54	30.95895 AU
morning rise	-10507 Dec 07 j 19:15	19°♑11'04	
retrograde	-10506 Mar 09 j 13:38	21°♑09'53	
min. Earth dist.	-10506 May 28 j 03:27	19°♑46'21	28.95670 AU
opposition	-10506 May 29 j 04:56	19°♑44'35	0°22'23
direct	-10506 Aug 14 j 11:58	18°♑21'45	
evening set	-10506 Nov 08 j 13:55	20°♑13'51	
conjunction	-10506 Nov 24 j 08:58	20°♑49'10	0°17'56
minimum elong	-10506 Nov 24 j 08:58	20°♑49'10	0°18'05
max. Earth dist.	-10506 Nov 25 j 12:27	20°♑51'45	30.95339 AU
morning rise	-10506 Dec 10 j 08:06	21°♑24'54	
retrograde	-10505 Mar 12 j 01:23	23°♑23'45	
opposition	-10505 May 31 j 16:46	21°♑58'28	0°15'46
min. Earth dist.	-10505 May 30 j 15:46	22°♑00'12	28.95071 AU
direct	-10505 Aug 16 j 23:16	20°♑35'38	
evening set	-10505 Nov 11 j 01:49	22°♑27'46	
conjunction	-10505 Nov 26 j 21:26	23°♑03'08	0°11'45
minimum elong	-10505 Nov 26 j 21:26	23°♑03'08	0°11'52
behind sun begin	-10505 Nov 26 j 16:56	23°♑02'44	
behind sun end	-10505 Nov 27 j 01:56	23°♑03'33	
max. Earth dist.	-10505 Nov 27 j 23:52	23°♑05'37	30.94709 AU
morning rise	-10505 Dec 12 j 21:17	23°♑38'55	
retrograde	-10504 Mar 13 j 16:08	25°♑37'47	
min. Earth dist.	-10504 Jun 01 j 03:29	24°♑14'14	28.94390 AU
opposition	-10504 Jun 02 j 04:37	24°♑12'29	0°09'08
direct	-10504 Aug 18 j 10:11	22°♑49'37	
evening set	-10504 Nov 12 j 13:46	24°♑41'47	
conjunction	-10504 Nov 28 j 10:02	25°♑17'13	0°05'34
minimum elong	-10504 Nov 28 j 10:02	25°♑17'13	0°05'41
behind sun begin	-10504 Nov 28 j 03:46	25°♑16'39	
behind sun end	-10504 Nov 28 j 16:18	25°♑17'46	
max. Earth dist.	-10504 Nov 29 j 12:29	25°♑19'41	30.93970 AU
morning rise	-10504 Dec 14 j 10:29	25°♑53'02	
retrograde	-10503 Mar 16 j 04:16	27°♑51'54	
opposition	-10503 Jun 04 j 16:31	26°♑26'34	0°02'29
min. Earth dist.	-10503 Jun 03 j 16:37	26°♑28'14	28.93601 AU
direct	-10503 Aug 20 j 20:48	25°♑03'39	
desc. node	-10503 Oct 18 j 10:00	25°♑59'58	
evening set	-10503 Nov 15 j 01:51	26°♑55'50	
conjunction	-10503 Nov 30 j 22:47	27°♑31'18	-0°00'45
minimum elong	-10503 Nov 30 j 22:48	27°♑31'18	0°00'40
behind sun begin	-10503 Nov 30 j 16:18	27°♑30'43	
behind sun end	-10503 Dec 01 j 05:19	27°♑31'53	
max. Earth dist.	-10503 Dec 02 j 00:52	27°♑33'45	30.93155 AU
morning rise	-10503 Dec 16 j 23:49	28°♑07'10	
	-10502 Feb 27 j 13:31	0°♎	
retrograde	-10502 Mar 18 j 18:59	0°♎06'00	
	-10502 Apr 07 j 03:07	30°℞♑	
min. Earth dist.	-10502 Jun 06 j 03:37	28°♑42'20	28.92753 AU
opposition	-10502 Jun 07 j 04:03	28°♑40'37	-0°04'11
direct	-10502 Aug 23 j 09:24	27°♑17'38	
evening set	-10502 Nov 17 j 14:04	29°♑09'52	
conjunction	-10502 Dec 03 j 11:29	29°♑45'22	-0°07'00
minimum elong	-10502 Dec 03 j 11:29	29°♑45'22	0°06'56
behind sun begin	-10502 Dec 03 j 05:26	29°♑44'49	

Attention, astronomical year style is used: The year -10502 in astronomical counting style is the year 10503 BCE in historical counting style.

behind sun end	-10502 Dec 03 j 17:33	29°♍45'54		
max. Earth dist.	-10502 Dec 04 j 12:53	29°♍47'44	30.92290 AU	
	-10502 Dec 09 j 23:39	0°♎		
morning rise	-10502 Dec 19 j 13:07	0°♎21'15		
retrograde	-10501 Mar 21 j 08:37	2°♎20'04		
opposition	-10501 Jun 09 j 15:45	0°♎54'38	-0°10'49	
min. Earth dist.	-10501 Jun 08 j 16:32	0°♎56'15	28.91900 AU	
	-10501 Jul 15 j 01:39	30°℞♍		
direct	-10501 Aug 25 j 20:58	29°♍31'35		
	-10501 Oct 05 j 15:59	0°♎		
evening set	-10501 Nov 20 j 02:03	1°♎23'49		
conjunction	-10501 Dec 06 j 00:10	1°♎59'22	-0°13'11	
minimum elong	-10501 Dec 06 j 00:09	1°♎59'22	0°13'09	
behind sun begin	-10501 Dec 05 j 20:21	1°♎59'01		
behind sun end	-10501 Dec 06 j 03:58	1°♎59'42		
max. Earth dist.	-10501 Dec 07 j 02:12	2°♎01'48	30.91462 AU	
morning rise	-10501 Dec 22 j 02:12	2°♎35'17		
retrograde	-10500 Mar 22 j 21:43	4°♎34'04		
min. Earth dist.	-10500 Jun 10 j 03:10	3°♎10'16	28.91102 AU	
opposition	-10500 Jun 11 j 03:13	3°♎08'35	-0°17'27	
direct	-10500 Aug 27 j 09:45	1°♎45'28		
evening set	-10500 Nov 21 j 14:27	3°♎37'45		
conjunction	-10500 Dec 07 j 12:57	4°♎13'19	-0°19'22	
minimum elong	-10500 Dec 07 j 12:57	4°♎13'19	0°19'20	
max. Earth dist.	-10500 Dec 08 j 13:59	4°♎15'40	30.90707 AU	
morning rise	-10500 Dec 23 j 15:38	4°♎49'17		
retrograde	-10499 Mar 25 j 10:22	6°♎48'01		
opposition	-10499 Jun 13 j 14:40	5°♎22'31	-0°24'03	
min. Earth dist.	-10499 Jun 12 j 15:35	5°♎24'08	28.90413 AU	
direct	-10499 Aug 29 j 19:45	3°♎59'20		
evening set	-10499 Nov 24 j 02:49	5°♎51'39		
conjunction	-10499 Dec 10 j 02:01	6°♎27'16	-0°25'31	
minimum elong	-10499 Dec 10 j 02:00	6°♎27'16	0°25'32	
max. Earth dist.	-10499 Dec 11 j 04:03	6°♎29'42	30.90073 AU	
morning rise	-10499 Dec 26 j 05:00	7°♎03'15		
retrograde	-10498 Mar 27 j 22:56	9°♎01'58		
min. Earth dist.	-10498 Jun 15 j 02:33	7°♎38'06	28.89841 AU	
opposition	-10498 Jun 16 j 02:00	7°♎36'27	-0°30'37	
direct	-10498 Sep 01 j 07:31	6°♎13'14		
evening set	-10498 Nov 26 j 15:20	8°♎05'37		
conjunction	-10498 Dec 12 j 14:51	8°♎41'15	-0°31'39	
minimum elong	-10498 Dec 12 j 14:50	8°♎41'15	0°31'40	
max. Earth dist.	-10498 Dec 13 j 15:40	8°♎43'34	30.89568 AU	
morning rise	-10498 Dec 28 j 18:24	9°♎17'16		
retrograde	-10497 Mar 30 j 12:09	11°♎15'58		
opposition	-10497 Jun 18 j 13:22	9°♎50'27	-0°37'09	
min. Earth dist.	-10497 Jun 17 j 14:12	9°♎52'05	28.89409 AU	
direct	-10497 Sep 03 j 16:59	8°♎27'12		
evening set	-10497 Nov 29 j 03:55	10°♎19'39		
conjunction	-10497 Dec 15 j 04:02	10°♎55'20	-0°37'43	
minimum elong	-10497 Dec 15 j 04:01	10°♎55'20	0°37'47	
max. Earth dist.	-10497 Dec 16 j 05:38	10°♎57'43	30.89188 AU	
morning rise	-10497 Dec 31 j 07:52	11°♎31'22		
retrograde	-10496 Mar 31 j 22:59	13°♎30'03		
min. Earth dist.	-10496 Jun 19 j 01:55	12°♎06'10	28.89083 AU	
opposition	-10496 Jun 20 j 00:39	12°♎04'34	-0°43'38	
direct	-10496 Sep 05 j 04:06	10°♎41'18		
evening set	-10496 Nov 30 j 16:44	12°♎33'51		
conjunction	-10496 Dec 16 j 17:15	13°♎09'32	-0°43'45	
minimum elong	-10496 Dec 16 j 17:15	13°♎09'32	0°43'50	
max. Earth dist.	-10496 Dec 17 j 17:47	13°♎11'50	30.88915 AU	
morning rise	-10495 Jan 01 j 21:36	13°♎45'36		
retrograde	-10495 Apr 03 j 12:58	15°♎44'17		
opposition	-10495 Jun 22 j 11:56	14°♎18'50	-0°50'03	
min. Earth dist.	-10495 Jun 21 j 13:07	14°♎20'26	28.88842 AU	
direct	-10495 Sep 07 j 14:18	12°♎55'32		
evening set	-10495 Dec 03 j 05:50	14°♎48'12		
conjunction	-10495 Dec 19 j 06:47	15°♎23'55	-0°49'43	
minimum elong	-10495 Dec 19 j 06:46	15°♎23'55	0°49'50	
max. Earth dist.	-10495 Dec 20 j 07:18	15°♎26'13	30.88675 AU	
morning rise	-10494 Jan 04 j 11:24	16°♎00'01		
retrograde	-10494 Apr 06 j 00:57	17°♎58'41		
opposition	-10494 Jun 24 j 23:10	16°♎33'16	-0°56'24	
min. Earth dist.	-10494 Jun 24 j 01:48	16°♎34'46	28.88610 AU	
direct	-10494 Sep 10 j 00:12	15°♎09'57		
evening set	-10494 Dec 05 j 19:02	17°♎02'43		
conjunction	-10494 Dec 21 j 20:25	17°♎38'28	-0°55'37	
minimum elong	-10494 Dec 21 j 20:25	17°♎38'28	0°55'45	
max. Earth dist.	-10494 Dec 22 j 20:12	17°♎40'42	30.88438 AU	
morning rise	-10493 Jan 07 j 01:21	18°♎14'35		
retrograde	-10493 Apr 08 j 15:26	20°♎13'14		
opposition	-10493 Jun 27 j 10:25	18°♎47'51	-1°02'40	
min. Earth dist.	-10493 Jun 26 j 12:49	18°♎49'23	28.88352 AU	
direct	-10493 Sep 12 j 12:45	17°♎24'30		
evening set	-10493 Dec 08 j 08:21	19°♎17'23		
conjunction	-10493 Dec 24 j 10:01	19°♎53'09	-1°01'27	
minimum elong	-10493 Dec 24 j 10:01	19°♎53'09	1°01'35	
max. Earth dist.	-10493 Dec 25 j 08:42	19°♎55'17	30.88129 AU	
morning rise	-10492 Jan 09 j 15:19	20°♎29'17		
retrograde	-10492 Apr 10 j 04:39	22°♎27'55		
opposition	-10492 Jun 28 j 21:50	21°♎02'33	-1°08'50	
min. Earth dist.	-10492 Jun 28 j 02:01	21°♎03'57	28.88008 AU	
direct	-10492 Sep 14 j 00:11	19°♎39'10		
evening set	-10492 Dec 09 j 21:51	21°♎32'07		
conjunction	-10492 Dec 26 j 00:02	22°♎07'56	-1°07'10	
minimum elong	-10492 Dec 26 j 00:02	22°♎07'56	1°07'19	
max. Earth dist.	-10492 Dec 26 j 22:22	22°♎10'01	30.87733 AU	
morning rise	-10491 Jan 11 j 05:30	22°♎44'04		
retrograde	-10491 Apr 12 j 18:27	24°♎42'39		
opposition	-10491 Jul 01 j 08:56	23°♎17'18	-1°14'54	
min. Earth dist.	-10491 Jun 30 j 13:02	23°♎18'42	28.87555 AU	
direct	-10491 Sep 16 j 13:18	21°♎53'50		
evening set	-10491 Dec 12 j 11:36	23°♎46'53		
conjunction	-10491 Dec 28 j 13:59	24°♎22'43	-1°12'48	
minimum elong	-10491 Dec 28 j 13:58	24°♎22'43	1°12'59	
max. Earth dist.	-10491 Dec 29 j 10:28	24°♎24'38	30.87225 AU	
morning rise	-10490 Jan 13 j 19:49	24°♎58'52		
retrograde	-10490 Apr 15 j 07:59	26°♎57'23		
opposition	-10490 Jul 03 j 20:13	25°♎32'01	-1°20'52	
min. Earth dist.	-10490 Jul 03 j 01:55	25°♎33'19	28.87018 AU	
direct	-10490 Sep 19 j 00:10	24°♎08'29		
evening set	-10490 Dec 15 j 01:04	26°♎01'36		
conjunction	-10490 Dec 31 j 03:55	26°♎37'27	-1°18'18	
minimum elong	-10490 Dec 31 j 03:54	26°♎37'27	1°18'31	
max. Earth dist.	-10489 Jan 01 j 00:44	26°♎39'24	30.86651 AU	
morning rise	-10489 Jan 16 j 09:47	27°♎13'36		
retrograde	-10489 Apr 17 j 21:03	29°♎12'03		
opposition	-10489 Jul 06 j 07:14	27°♎46'40	-1°26'42	
min. Earth dist.	-10489 Jul 05 j 13:11	27°♎47'57	28.86429 AU	
direct	-10489 Sep 21 j 13:02	26°♎23'03		
evening set	-10489 Dec 17 j 14:49	28°♎16'15		

Attention, astronomical year style is used: The year -10488 in astronomical counting style is the year 10489 BCE in historical counting style.

conjunction	-10488 Jan 02 j 17:48	28°♎52'07	-1°23'42	
minimum elong	-10488 Jan 02 j 17:47	28°♎52'06	1°23'56	
max. Earth dist.	-10488 Jan 03 j 12:48	28°♎53'53	30.86067 AU	
morning rise	-10488 Jan 19 j 00:02	29°♎28'16		
	-10488 Feb 03 j 00:50	0°♏		
retrograde	-10488 Apr 19 j 09:50	1°♏26'38		
opposition	-10488 Jul 07 j 18:11	0°♏01'15	-1°32'23	
min. Earth dist.	-10488 Jul 07 j 00:57	0°♏02'28	28.85877 AU	
	-10488 Jul 08 j 11:46	30°℞♎		
direct	-10488 Sep 22 j 23:32	28°♎37'32		
	-10488 Dec 04 j 13:22	0°♏		
evening set	-10488 Dec 19 j 04:29	0°♏30'49		
conjunction	-10487 Jan 04 j 07:55	1°♏06'41	-1°28'58	
minimum elong	-10487 Jan 04 j 07:54	1°♏06'41	1°29'13	
max. Earth dist.	-10487 Jan 05 j 03:18	1°♏08'30	30.85530 AU	
morning rise	-10487 Jan 20 j 14:09	1°♏42'52		
retrograde	-10487 Apr 21 j 20:38	3°♏41'09		
opposition	-10487 Jul 10 j 05:06	2°♏15'45	-1°37'57	
min. Earth dist.	-10487 Jul 09 j 12:35	2°♏16'56	28.85386 AU	
direct	-10487 Sep 25 j 11:20	0°♏51'57		
evening set	-10487 Dec 21 j 18:22	2°♏45'21		
conjunction	-10486 Jan 06 j 21:55	3°♏21'14	-1°34'05	
minimum elong	-10486 Jan 06 j 21:54	3°♏21'14	1°34'22	
max. Earth dist.	-10486 Jan 07 j 15:51	3°♏22'54	30.85092 AU	
morning rise	-10486 Jan 23 j 04:23	3°♏57'23		
retrograde	-10486 Apr 24 j 10:01	5°♏55'37		
opposition	-10486 Jul 12 j 15:51	4°♏30'14	-1°43'21	
min. Earth dist.	-10486 Jul 11 j 23:17	4°♏31'25	28.85023 AU	
direct	-10486 Sep 27 j 21:44	3°♏06'21		
evening set	-10486 Dec 24 j 08:11	4°♏59'52		
conjunction	-10485 Jan 09 j 12:00	5°♏35'46	-1°39'04	
minimum elong	-10485 Jan 09 j 11:59	5°♏35'45	1°39'22	
max. Earth dist.	-10485 Jan 10 j 06:02	5°♏37'27	30.84782 AU	
morning rise	-10485 Jan 25 j 18:28	6°♏11'55		
retrograde	-10485 Apr 26 j 21:04	8°♏10'05		
min. Earth dist.	-10485 Jul 14 j 11:24	6°♏45'50	28.84797 AU	
opposition	-10485 Jul 15 j 02:44	6°♏44'44	-1°48'36	
direct	-10485 Sep 30 j 07:26	5°♏20'48		
evening set	-10485 Dec 26 j 21:56	7°♏14'26		
conjunction	-10484 Jan 12 j 02:00	7°♏50'20	-1°43'54	
minimum elong	-10484 Jan 12 j 01:59	7°♏50'20	1°44'13	
max. Earth dist.	-10484 Jan 12 j 19:21	7°♏51'57	30.84633 AU	
morning rise	-10484 Jan 28 j 08:36	8°♏26'30		
retrograde	-10484 Apr 28 j 10:17	10°♏24'37		
opposition	-10484 Jul 16 j 13:28	8°♏59'19	-1°53'41	
min. Earth dist.	-10484 Jul 15 j 21:44	9°♏00'26	28.84721 AU	
direct	-10484 Oct 01 j 20:12	7°♏35'20		
evening set	-10484 Dec 28 j 12:03	9°♏29'06		
conjunction	-10483 Jan 13 j 16:14	10°♏05'01	-1°48'35	
minimum elong	-10483 Jan 13 j 16:12	10°♏05'01	1°48'54	
max. Earth dist.	-10483 Jan 14 j 08:45	10°♏06'34	30.84608 AU	
morning rise	-10483 Jan 29 j 22:55	10°♏41'11		
retrograde	-10483 Apr 30 j 22:27	12°♏39'15		
min. Earth dist.	-10483 Jul 18 j 10:06	11°♏15'01	28.84766 AU	
opposition	-10483 Jul 19 j 00:13	11°♏14'00	-1°58'36	
direct	-10483 Oct 04 j 07:08	9°♏50'00		
evening set	-10483 Dec 31 j 02:10	11°♏43'55		
conjunction	-10482 Jan 16 j 06:38	12°♏19'51	-1°53'05	
minimum elong	-10482 Jan 16 j 06:37	12°♏19'51	1°53'27	
max. Earth dist.	-10482 Jan 16 j 22:54	12°♏21'22	30.84698 AU	
morning rise	-10482 Feb 01 j 13:15	12°♏56'00		
retrograde	-10482 May 03 j 12:10	14°♏54'00		
opposition	-10482 Jul 21 j 10:54	13°♏28'51	-2°03'20	
min. Earth dist.	-10482 Jul 20 j 20:36	13°♏29'52	28.84890 AU	
direct	-10482 Oct 06 j 19:52	12°♏04'49		
evening set	-10481 Jan 02 j 16:26	13°♏58'54		
conjunction	-10481 Jan 18 j 20:51	14°♏34'49	-1°57'26	
minimum elong	-10481 Jan 18 j 20:50	14°♏34'49	1°57'48	
max. Earth dist.	-10481 Jan 19 j 11:27	14°♏36'11	30.84830 AU	
	-10481 Jan 30 j 03:40	15°♏		
morning rise	-10481 Feb 04 j 03:34	15°♏10'58		
retrograde	-10481 May 06 j 01:59	17°♏08'56		
opposition	-10481 Jul 23 j 21:44	15°♏43'51	-2°07'52	
min. Earth dist.	-10481 Jul 23 j 09:02	15°♏44'45	28.85045 AU	
	-10481 Aug 19 j 22:15	15°℞♏		
direct	-10481 Oct 09 j 06:55	14°♏19'47		
	-10481 Nov 27 j 15:26	15°♏		
evening set	-10480 Jan 05 j 06:47	16°♏14'00		
conjunction	-10480 Jan 21 j 11:30	16°♏49'57	-2°01'36	
minimum elong	-10480 Jan 21 j 11:29	16°♏49'57	2°01'59	
max. Earth dist.	-10480 Jan 22 j 02:06	16°♏51'18	30.84966 AU	
morning rise	-10480 Feb 06 j 18:02	17°♏26'05		
retrograde	-10480 May 07 j 15:41	19°♏23'59		
opposition	-10480 Jul 25 j 08:22	17°♏58'57	-2°12'14	
min. Earth dist.	-10480 Jul 24 j 20:18	17°♏59'49	28.85158 AU	
direct	-10480 Oct 10 j 20:32	16°♏34'52		
evening set	-10479 Jan 06 j 21:29	18°♏29'12		
conjunction	-10479 Jan 23 j 02:09	19°♏05'09	-2°05'35	
minimum elong	-10479 Jan 23 j 02:08	19°♏05'09	2°05'59	
max. Earth dist.	-10479 Jan 23 j 14:21	19°♏06'18	30.85040 AU	
morning rise	-10479 Feb 08 j 08:50	19°♏41'17		
retrograde	-10479 May 10 j 04:44	21°♏39'06		
opposition	-10479 Jul 27 j 19:11	20°♏14'07	-2°16'23	
min. Earth dist.	-10479 Jul 27 j 08:22	20°♏14'53	28.85205 AU	
direct	-10479 Oct 13 j 07:51	18°♏49'57		
evening set	-10478 Jan 09 j 12:03	20°♏44'25		
conjunction	-10478 Jan 25 j 16:57	21°♏20'22	-2°09'22	
minimum elong	-10478 Jan 25 j 16:56	21°♏20'22	2°09'47	
max. Earth dist.	-10478 Jan 26 j 04:56	21°♏21'29	30.85025 AU	
morning rise	-10478 Feb 10 j 23:23	21°♏56'29		
retrograde	-10478 May 12 j 16:33	23°♏54'11		
opposition	-10478 Jul 30 j 05:53	22°♏29'15	-2°20'19	
min. Earth dist.	-10478 Jul 29 j 20:18	22°♏29'56	28.85152 AU	
direct	-10478 Oct 15 j 20:20	21°♏05'00		
evening set	-10477 Jan 12 j 02:43	22°♏59'34		
conjunction	-10477 Jan 28 j 07:36	23°♏35'31	-2°12'57	
minimum elong	-10477 Jan 28 j 07:34	23°♏35'31	2°13'24	
max. Earth dist.	-10477 Jan 28 j 17:23	23°♏36'26	30.84946 AU	
morning rise	-10477 Feb 13 j 14:06	24°♏11'37		
retrograde	-10477 May 15 j 06:13	26°♏09'11		
opposition	-10477 Aug 01 j 16:30	24°♏44'16	-2°24'03	
min. Earth dist.	-10477 Aug 01 j 07:22	24°♏44'55	28.85060 AU	
direct	-10477 Oct 18 j 07:34	23°♏19'55		
evening set	-10476 Jan 14 j 17:13	25°♏14'35		
conjunction	-10476 Jan 30 j 22:15	25°♏50'31	-2°16'21	
minimum elong	-10476 Jan 30 j 22:14	25°♏50'31	2°16'48	
max. Earth dist.	-10476 Jan 31 j 07:42	25°♏51'24	30.84827 AU	
morning rise	-10476 Feb 16 j 04:36	26°♏26'37		
retrograde	-10476 May 16 j 16:22	28°♏24'03		
opposition	-10476 Aug 03 j 03:09	26°♏59'08	-2°27'34	
min. Earth dist.	-10476 Aug 02 j 19:47	26°♏59'40	28.84949 AU	
direct	-10476 Oct 19 j 18:27	25°♏34'41		

Attention, astronomical year style is used: The year -10475 in astronomical counting style is the year 10476 BCE in historical counting style.

evening set	-10475 Jan 16 j 07:52	27°♏29'26	
conjunction	-10475 Feb 01 j 12:58	28°♏05'22	-2°19'31
minimum elong	-10475 Feb 01 j 12:57	28°♏05'22	2°19'59
max. Earth dist.	-10475 Feb 01 j 21:03	28°♏06'07	30.84734 AU
morning rise	-10475 Feb 17 j 19:16	28°♏41'26	
	-10475 Mar 31 j 04:02	0°♐	
retrograde	-10475 May 19 j 04:23	0°♐38'44	
	-10475 Jul 08 j 00:19	30°℞♏	
opposition	-10475 Aug 05 j 13:30	29°♏13'51	-2°30'51
min. Earth dist.	-10475 Aug 05 j 06:05	29°♏14'23	28.84889 AU
direct	-10475 Oct 22 j 07:21	27°♏49'17	
evening set	-10474 Jan 18 j 22:32	29°♏44'09	
	-10474 Jan 26 j 03:36	0°♐	
conjunction	-10474 Feb 04 j 03:37	0°♐20'04	-2°22'29
minimum elong	-10474 Feb 04 j 03:36	0°♐20'04	2°22'58
max. Earth dist.	-10474 Feb 04 j 10:50	0°♐20'44	30.84701 AU
morning rise	-10474 Feb 20 j 09:46	0°♐56'07	
retrograde	-10474 May 21 j 15:26	2°♐53'17	
opposition	-10474 Aug 08 j 00:06	1°♐28'25	-2°33'54
min. Earth dist.	-10474 Aug 07 j 18:20	1°♐28'50	28.84924 AU
direct	-10474 Oct 24 j 18:06	0°♐03'46	
evening set	-10473 Jan 21 j 12:54	1°♐58'44	
conjunction	-10473 Feb 06 j 18:04	2°♐34'39	-2°25'14
minimum elong	-10473 Feb 06 j 18:03	2°♐34'39	2°25'44
max. Earth dist.	-10473 Feb 07 j 00:54	2°♐35'17	30.84796 AU
morning rise	-10473 Feb 23 j 00:03	3°♐10'40	
retrograde	-10473 May 24 j 03:51	5°♐07'44	
opposition	-10473 Aug 10 j 10:29	3°♐42'54	-2°36'43
min. Earth dist.	-10473 Aug 10 j 04:24	3°♐43'20	28.85090 AU
direct	-10473 Oct 27 j 07:02	2°♐18'11	
evening set	-10472 Jan 24 j 03:32	4°♐13'16	
conjunction	-10472 Feb 09 j 08:36	4°♐49'10	-2°27'46
minimum elong	-10472 Feb 09 j 08:36	4°♐49'10	2°28'15
max. Earth dist.	-10472 Feb 09 j 13:57	4°♐49'40	30.85029 AU
morning rise	-10472 Feb 25 j 14:32	5°♐25'11	
retrograde	-10472 May 25 j 16:21	7°♐22'07	
opposition	-10472 Aug 11 j 20:53	5°♐57'21	-2°39'18
min. Earth dist.	-10472 Aug 11 j 16:12	5°♐57'41	28.85415 AU
direct	-10472 Oct 28 j 18:25	4°♐32'35	
evening set	-10471 Jan 25 j 18:07	6°♐27'48	
conjunction	-10471 Feb 10 j 23:22	7°♐03'43	-2°30'04
minimum elong	-10471 Feb 10 j 23:21	7°♐03'43	2°30'35
max. Earth dist.	-10471 Feb 11 j 04:52	7°♐04'13	30.85422 AU
morning rise	-10471 Feb 27 j 05:01	7°♐39'41	
retrograde	-10471 May 28 j 05:06	9°♐36'32	
opposition	-10471 Aug 14 j 07:17	8°♐11'51	-2°41'38
min. Earth dist.	-10471 Aug 14 j 02:54	8°♐12'10	28.85874 AU
direct	-10471 Oct 31 j 08:10	6°♐47'04	
evening set	-10470 Jan 28 j 08:50	8°♐42'25	
conjunction	-10470 Feb 13 j 13:53	9°♐18'19	-2°32'08
minimum elong	-10470 Feb 13 j 13:53	9°♐18'19	2°32'40
max. Earth dist.	-10470 Feb 13 j 17:28	9°♐18'39	30.85943 AU
morning rise	-10470 Mar 01 j 19:30	9°♐54'17	
retrograde	-10470 May 30 j 18:08	11°♐51'02	
opposition	-10470 Aug 16 j 17:42	10°♐26'28	-2°43'43
min. Earth dist.	-10470 Aug 16 j 14:12	10°♐26'43	28.86460 AU
direct	-10470 Nov 02 j 19:21	9°♐01'40	
evening set	-10469 Jan 30 j 23:27	10°♐57'10	
conjunction	-10469 Feb 16 j 04:40	11°♐33'04	-2°33'58
minimum elong	-10469 Feb 16 j 04:39	11°♐33'04	2°34'31
max. Earth dist.	-10469 Feb 16 j 08:24	11°♐33'25	30.86562 AU
morning rise	-10469 Mar 04 j 09:56	12°♐09'01	
retrograde	-10469 Jun 02 j 06:33	14°♐05'40	
opposition	-10469 Aug 19 j 04:07	12°♐41'13	-2°45'33
min. Earth dist.	-10469 Aug 19 j 01:47	12°♐41'23	28.87106 AU
direct	-10469 Nov 05 j 07:52	11°♐16'25	
evening set	-10468 Feb 02 j 14:15	13°♐12'04	
conjunction	-10468 Feb 18 j 19:19	13°♐47'58	-2°35'34
minimum elong	-10468 Feb 18 j 19:18	13°♐47'58	2°36'07
max. Earth dist.	-10468 Feb 18 j 20:50	13°♐48'07	30.87219 AU
morning rise	-10468 Mar 06 j 00:35	14°♐23'54	
retrograde	-10468 Jun 03 j 20:37	16°♐20'28	
opposition	-10468 Aug 20 j 14:33	14°♐56'08	-2°47'09
min. Earth dist.	-10468 Aug 20 j 12:43	14°♐56'15	28.87759 AU
direct	-10468 Nov 06 j 19:20	13°♐31'18	
evening set	-10467 Feb 04 j 05:09	15°♐27'06	
conjunction	-10467 Feb 20 j 10:17	16°♐03'00	-2°36'57
minimum elong	-10467 Feb 20 j 10:16	16°♐03'00	2°37'30
max. Earth dist.	-10467 Feb 20 j 11:17	16°♐03'06	30.87833 AU
morning rise	-10467 Mar 08 j 15:11	16°♐38'56	
retrograde	-10467 Jun 06 j 07:07	18°♐35'23	
opposition	-10467 Aug 23 j 01:06	17°♐11'09	-2°48'29
min. Earth dist.	-10467 Aug 23 j 01:18	17°♐11'08	28.88344 AU
direct	-10467 Nov 09 j 06:26	15°♐46'18	
evening set	-10466 Feb 06 j 20:06	17°♐42'13	
conjunction	-10466 Feb 23 j 01:07	18°♐18'06	-2°38'04
minimum elong	-10466 Feb 23 j 01:07	18°♐18'06	2°38'37
max. Earth dist.	-10466 Feb 23 j 00:14	18°♐18'02	30.88379 AU
morning rise	-10466 Mar 11 j 05:55	18°♐54'01	
retrograde	-10466 Jun 08 j 19:25	20°♐50'20	
opposition	-10466 Aug 25 j 11:36	19°♐26'11	-2°49'33
min. Earth dist.	-10466 Aug 25 j 12:00	19°♐26'10	28.88844 AU
direct	-10466 Nov 11 j 19:11	18°♐01'17	
evening set	-10465 Feb 09 j 10:48	19°♐57'18	
conjunction	-10465 Feb 25 j 15:48	20°♐33'12	-2°38'58
minimum elong	-10465 Feb 25 j 15:47	20°♐33'12	2°39'32
max. Earth dist.	-10465 Feb 25 j 13:47	20°♐33'01	30.88825 AU
morning rise	-10465 Mar 13 j 20:21	21°♐09'05	
retrograde	-10465 Jun 11 j 06:26	23°♐05'17	
opposition	-10465 Aug 27 j 22:13	21°♐41'11	-2°50'22
min. Earth dist.	-10465 Aug 28 j 00:43	21°♐41'01	28.89256 AU
direct	-10465 Nov 14 j 05:34	20°♐16'13	
evening set	-10464 Feb 12 j 01:36	22°♐12'20	
conjunction	-10464 Feb 28 j 06:37	22°♐48'13	-2°39'37
minimum elong	-10464 Feb 28 j 06:37	22°♐48'13	2°40'11
max. Earth dist.	-10464 Feb 28 j 03:28	22°♐47'55	30.89208 AU
morning rise	-10464 Mar 15 j 10:59	23°♐24'04	
retrograde	-10464 Jun 12 j 17:50	25°♐20'06	
opposition	-10464 Aug 29 j 08:28	23°♐56'04	-2°50'56
min. Earth dist.	-10464 Aug 29 j 11:11	23°♐55'53	28.89608 AU
direct	-10464 Nov 15 j 18:41	22°♐31'01	
evening set	-10463 Feb 13 j 16:28	24°♐27'13	
conjunction	-10463 Mar 01 j 21:21	25°♐03'05	-2°40'01
minimum elong	-10463 Mar 01 j 21:20	25°♐03'05	2°40'37
max. Earth dist.	-10463 Mar 01 j 16:23	25°♐02'37	30.89543 AU
morning rise	-10463 Mar 18 j 01:33	25°♐38'55	
retrograde	-10463 Jun 15 j 05:07	27°♐34'47	
opposition	-10463 Aug 31 j 18:58	26°♐10'48	-2°51'15
min. Earth dist.	-10463 Aug 31 j 23:21	26°♐10'29	28.89953 AU
direct	-10463 Nov 18 j 06:49	24°♐45'39	
evening set	-10462 Feb 16 j 07:00	26°♐41'55	

Attention, astronomical year style is used: The year -10462 in astronomical counting style is the year 10463 BCE in historical counting style.

conjunction	-10462 Mar 04 j 11:56	27°♐17'47	-2°40'11
minimum elong	-10462 Mar 04 j 11:56	27°♐17'47	2°40'46
max. Earth dist.	-10462 Mar 04 j 06:52	27°♐17'19	30.89898 AU
morning rise	-10462 Mar 20 j 15:47	27°♐53'34	
retrograde	-10462 Jun 17 j 16:31	29°♐49'18	
opposition	-10462 Sep 03 j 05:19	28°♐25'20	-2°51'18
min. Earth dist.	-10462 Sep 03 j 10:09	28°♐25'00	28.90325 AU
direct	-10462 Nov 20 j 21:05	27°♐00'07	
evening set	-10461 Feb 18 j 21:38	28°♐56'28	
conjunction	-10461 Mar 07 j 02:20	29°♐32'18	-2°40'07
minimum elong	-10461 Mar 07 j 02:20	29°♐32'18	2°40'43
max. Earth dist.	-10461 Mar 06 j 19:22	29°♐31'39	30.90310 AU
	-10461 Mar 19 j 13:30	0°♑	
morning rise	-10461 Mar 23 j 06:07	0°♑08'04	
retrograde	-10461 Jun 20 j 04:55	2°♑03'38	
opposition	-10461 Sep 05 j 15:35	0°♑39'43	-2°51'05
min. Earth dist.	-10461 Sep 05 j 21:16	0°♑39'19	28.90797 AU
	-10461 Sep 29 j 19:53	30°℞♐	
direct	-10461 Nov 23 j 08:31	29°♐14'25	
	-10460 Jan 15 j 21:21	0°♑	
evening set	-10460 Feb 21 j 12:00	1°♑10'50	
conjunction	-10460 Mar 08 j 16:51	1°♑46'40	-2°39'48
minimum elong	-10460 Mar 08 j 16:51	1°♑46'40	2°40'23
max. Earth dist.	-10460 Mar 08 j 10:11	1°♑46'03	30.90831 AU
morning rise	-10460 Mar 24 j 20:15	2°♑22'25	
retrograde	-10460 Jun 21 j 16:50	4°♑17'49	
opposition	-10460 Sep 07 j 01:59	2°♑53'57	-2°50'37
min. Earth dist.	-10460 Sep 07 j 08:35	2°♑53'29	28.91369 AU
direct	-10460 Nov 24 j 22:33	1°♑28'37	
evening set	-10459 Feb 23 j 02:35	3°♑25'06	
conjunction	-10459 Mar 11 j 07:10	4°♑00'56	-2°39'14
minimum elong	-10459 Mar 11 j 07:10	4°♑00'56	2°39'50
max. Earth dist.	-10459 Mar 10 j 22:33	4°♑00'08	30.91473 AU
morning rise	-10459 Mar 27 j 10:30	4°♑36'39	
retrograde	-10459 Jun 24 j 05:48	6°♑31'54	
opposition	-10459 Sep 09 j 12:15	5°♑08'07	-2°49'54
min. Earth dist.	-10459 Sep 09 j 18:53	5°♑07'38	28.92078 AU
direct	-10459 Nov 27 j 11:13	3°♑42'44	
evening set	-10458 Feb 25 j 16:57	5°♑39'19	
conjunction	-10458 Mar 13 j 21:35	6°♑15'08	-2°38'26
minimum elong	-10458 Mar 13 j 21:35	6°♑15'08	2°39'01
max. Earth dist.	-10458 Mar 13 j 13:07	6°♑14'20	30.92241 AU
morning rise	-10458 Mar 30 j 00:31	6°♑50'50	
retrograde	-10458 Jun 26 j 16:11	8°♑45'56	
opposition	-10458 Sep 11 j 22:44	7°♑22'15	-2°48'54
min. Earth dist.	-10458 Sep 12 j 06:53	7°♑21'40	28.92901 AU
direct	-10458 Nov 29 j 23:02	5°♑56'52	
evening set	-10457 Feb 28 j 07:12	7°♑53'31	
conjunction	-10457 Mar 16 j 11:41	8°♑29'19	-2°37'24
minimum elong	-10457 Mar 16 j 11:41	8°♑29'19	2°38'00
max. Earth dist.	-10457 Mar 16 j 01:47	8°♑28'24	30.93124 AU
morning rise	-10457 Apr 01 j 14:33	9°♑05'00	
retrograde	-10457 Jun 29 j 04:43	10°♑59'58	
opposition	-10457 Sep 14 j 09:01	9°♑36'24	-2°47'40
min. Earth dist.	-10457 Sep 14 j 17:05	9°♑35'50	28.93809 AU
direct	-10457 Dec 02 j 11:27	8°♑11'01	
evening set	-10456 Mar 01 j 21:38	10°♑07'45	
conjunction	-10456 Mar 18 j 02:04	10°♑43'34	-2°36'07
minimum elong	-10456 Mar 18 j 02:04	10°♑43'34	2°36'42
max. Earth dist.	-10456 Mar 17 j 15:31	10°♑42'35	30.94045 AU
morning rise	-10456 Apr 03 j 04:36	11°♑19'14	
retrograde	-10456 Jun 30 j 15:40	13°♑14'04	
opposition	-10456 Sep 15 j 19:25	11°♑50'37	-2°46'10
min. Earth dist.	-10456 Sep 16 j 05:27	11°♑49'54	28.94734 AU
direct	-10456 Dec 03 j 21:39	10°♑25'13	
evening set	-10455 Mar 04 j 12:05	12°♑22'03	
conjunction	-10455 Mar 20 j 16:26	12°♑57'51	-2°34'36
minimum elong	-10455 Mar 20 j 16:26	12°♑57'51	2°35'11
max. Earth dist.	-10455 Mar 20 j 04:47	12°♑56'46	30.94962 AU
morning rise	-10455 Apr 05 j 18:46	13°♑33'30	
retrograde	-10455 Jul 03 j 02:43	15°♑28'12	
opposition	-10455 Sep 18 j 05:54	14°♑04'51	-2°44'25
min. Earth dist.	-10455 Sep 18 j 16:04	14°♑04'08	28.95611 AU
direct	-10455 Dec 06 j 10:46	12°♑39'27	
evening set	-10454 Mar 07 j 02:27	14°♑36'21	
conjunction	-10454 Mar 23 j 06:35	15°♑12'08	-2°32'51
minimum elong	-10454 Mar 23 j 06:36	15°♑12'09	2°33'25
max. Earth dist.	-10454 Mar 22 j 17:17	15°♑10'54	30.95796 AU
morning rise	-10454 Apr 08 j 08:40	15°♑47'46	
retrograde	-10454 Jul 05 j 13:29	17°♑42'21	
opposition	-10454 Sep 20 j 16:31	16°♑19'05	-2°42'25
min. Earth dist.	-10454 Sep 21 j 04:23	16°♑18'14	28.96405 AU
direct	-10454 Dec 08 j 22:08	14°♑53'39	
evening set	-10453 Mar 09 j 16:42	16°♑50'37	
conjunction	-10453 Mar 25 j 20:51	17°♑26'24	-2°30'52
minimum elong	-10453 Mar 25 j 20:52	17°♑26'24	2°31'27
max. Earth dist.	-10453 Mar 25 j 07:04	17°♑25'07	30.96542 AU
morning rise	-10453 Apr 10 j 22:37	18°♑02'00	
retrograde	-10453 Jul 08 j 00:23	19°♑56'26	
opposition	-10453 Sep 23 j 02:57	18°♑33'14	-2°40'11
min. Earth dist.	-10453 Sep 23 j 15:34	18°♑32'21	28.97085 AU
direct	-10453 Dec 11 j 11:42	17°♑07'46	
evening set	-10452 Mar 11 j 07:02	19°♑04'47	
conjunction	-10452 Mar 27 j 10:58	19°♑40'33	-2°28'40
minimum elong	-10452 Mar 27 j 10:58	19°♑40'33	2°29'14
max. Earth dist.	-10452 Mar 26 j 19:00	19°♑39'04	30.97179 AU
morning rise	-10452 Apr 12 j 12:37	20°♑16'08	
retrograde	-10452 Jul 09 j 12:24	22°♑10'25	
opposition	-10452 Sep 24 j 13:28	20°♑47'16	-2°37'42
min. Earth dist.	-10452 Sep 25 j 03:08	20°♑46'18	28.97680 AU
direct	-10452 Dec 12 j 23:21	19°♑21'44	
evening set	-10451 Mar 13 j 21:05	21°♑18'48	
max. Earth dist.	-10451 Mar 29 j 09:10	21°♑53'05	30.97739 AU
conjunction	-10451 Mar 30 j 01:03	21°♑54'33	-2°26'14
minimum elong	-10451 Mar 30 j 01:03	21°♑54'33	2°26'49
morning rise	-10451 Apr 15 j 02:17	22°♑30'07	
retrograde	-10451 Jul 11 j 23:30	24°♑24'14	
opposition	-10451 Sep 26 j 23:58	23°♑01'08	-2°35'00
min. Earth dist.	-10451 Sep 27 j 14:50	23°♑00'05	28.98204 AU
direct	-10451 Dec 15 j 13:52	21°♑35'33	
evening set	-10450 Mar 16 j 11:07	23°♑32'38	
conjunction	-10450 Apr 01 j 14:48	24°♑08'23	-2°23'36
minimum elong	-10450 Apr 01 j 14:48	24°♑08'23	2°24'10
max. Earth dist.	-10450 Mar 31 j 20:53	24°♑06'43	30.98267 AU
morning rise	-10450 Apr 17 j 15:57	24°♑43'54	
retrograde	-10450 Jul 14 j 11:52	26°♑37'52	
opposition	-10450 Sep 29 j 10:23	25°♑14'48	-2°32'04
min. Earth dist.	-10450 Sep 30 j 01:19	25°♑13'44	28.98735 AU
direct	-10450 Dec 18 j 03:04	23°♑49'10	
evening set	-10449 Mar 19 j 00:43	25°♑46'16	
max. Earth dist.	-10449 Apr 03 j 10:48	26°♑20'21	30.98812 AU

Attention, astronomical year style is used: The year -10449 in astronomical counting style is the year 10450 BCE in historical counting style.

conjunction	-10449 Apr 04 j 04:26	26°♓22'00	-2°20'46	
minimum elong	-10449 Apr 04 j 04:26	26°♓22'00	2°21'19	
morning rise	-10449 Apr 20 j 05:12	26°♓57'30		
retrograde	-10449 Jul 16 j 21:49	28°♓51'18		
opposition	-10449 Oct 01 j 20:53	27°♓28'17	-2°28'55	
min. Earth dist.	-10449 Oct 02 j 13:20	27°♓27'07	28.99300 AU	
direct	-10449 Dec 20 j 15:42	26°♓02'36		
evening set	-10448 Mar 20 j 14:29	27°♓59'43		
conjunction	-10448 Apr 05 j 17:55	28°♓35'26	-2°17'42	
minimum elong	-10448 Apr 05 j 17:56	28°♓35'26	2°18'14	
max. Earth dist.	-10448 Apr 04 j 22:55	28°♓33'40	30.99428 AU	
morning rise	-10448 Apr 21 j 18:34	29°♓10'55		
	-10448 May 15 j 20:32	0°♒		
retrograde	-10448 Jul 18 j 09:52	1°♒04'33		
	-10448 Sep 22 j 08:14	30°℞♓		
opposition	-10448 Oct 03 j 07:10	29°♓41'35	-2°25'33	
min. Earth dist.	-10448 Oct 03 j 23:12	29°♓40'27	28.99955 AU	
direct	-10448 Dec 22 j 04:49	28°♓15'52		
	-10447 Mar 17 j 02:40	0°♒		
evening set	-10447 Mar 23 j 04:06	0°♒13'01		
conjunction	-10447 Apr 08 j 07:26	0°♒48'44	-2°14'27	
minimum elong	-10447 Apr 08 j 07:27	0°♒48'44	2°15'00	
max. Earth dist.	-10447 Apr 07 j 12:24	0°♒46'57	31.00141 AU	
morning rise	-10447 Apr 24 j 07:40	1°♒24'11		
retrograde	-10447 Jul 20 j 20:19	3°♒17'41		
opposition	-10447 Oct 05 j 17:46	1°♒54'47	-2°21'58	
min. Earth dist.	-10447 Oct 06 j 11:10	1°♒53'33	29.00732 AU	
direct	-10447 Dec 24 j 15:30	0°♒29'03		
evening set	-10446 Mar 25 j 17:27	2°♒26'13		
conjunction	-10446 Apr 10 j 20:35	3°♒01'55	-2°11'00	
minimum elong	-10446 Apr 10 j 20:36	3°♒01'55	2°11'31	
max. Earth dist.	-10446 Apr 10 j 01:07	3°♒00'06	31.00997 AU	
morning rise	-10446 Apr 26 j 20:37	3°♒37'21		
retrograde	-10446 Jul 23 j 06:07	5°♒30'44		
opposition	-10446 Oct 08 j 04:12	4°♒07'55	-2°18'10	
min. Earth dist.	-10446 Oct 08 j 21:04	4°♒06'43	29.01636 AU	
direct	-10446 Dec 27 j 04:39	2°♒42'11		
evening set	-10445 Mar 28 j 06:52	4°♒39'23		
conjunction	-10445 Apr 13 j 09:49	5°♒15'04	-2°07'21	
minimum elong	-10445 Apr 13 j 09:50	5°♒15'04	2°07'53	
max. Earth dist.	-10445 Apr 12 j 13:31	5°♒13'11	31.01968 AU	
morning rise	-10445 Apr 29 j 09:34	5°♒50'30		
retrograde	-10445 Jul 25 j 16:06	7°♒43'46		
opposition	-10445 Oct 10 j 14:37	6°♒21'02	-2°14'10	
min. Earth dist.	-10445 Oct 11 j 08:38	6°♒19'46	29.02660 AU	
direct	-10445 Dec 29 j 14:56	4°♒55'19		
evening set	-10444 Mar 29 j 20:13	6°♒52'33		
conjunction	-10444 Apr 14 j 23:05	7°♒28'15	-2°03'30	
minimum elong	-10444 Apr 14 j 23:06	7°♒28'15	2°04'00	
max. Earth dist.	-10444 Apr 14 j 02:53	7°♒26'22	31.03038 AU	
morning rise	-10444 Apr 30 j 22:30	8°♒03'39		
retrograde	-10444 Jul 27 j 02:23	9°♒56'48		
opposition	-10444 Oct 12 j 01:10	8°♒34'11	-2°09'57	
min. Earth dist.	-10444 Oct 12 j 19:30	8°♒32'54	29.03730 AU	
direct	-10444 Dec 31 j 03:11	7°♒08'30		
evening set	-10443 Apr 01 j 09:38	9°♒05'47		
conjunction	-10443 Apr 17 j 12:08	9°♒41'27	-1°59'29	
minimum elong	-10443 Apr 17 j 12:09	9°♒41'27	1°59'59	
max. Earth dist.	-10443 Apr 16 j 14:25	9°♒39'26	31.04122 AU	
morning rise	-10443 May 03 j 11:19	10°♒16'50		
retrograde	-10443 Jul 29 j 13:49	12°♒09'54		
opposition	-10443 Oct 14 j 11:48	10°♒47'22	-2°05'33	
min. Earth dist.	-10443 Oct 15 j 06:48	10°♒46'02	29.04806 AU	
direct	-10442 Jan 02 j 14:15	9°♒21'43		
evening set	-10442 Apr 03 j 22:52	11°♒19'01		
max. Earth dist.	-10442 Apr 19 j 03:57	11°♒52'41	31.05176 AU	
conjunction	-10442 Apr 20 j 01:17	11°♒54'41	-1°55'17	
minimum elong	-10442 Apr 20 j 01:18	11°♒54'41	1°55'45	
morning rise	-10442 May 06 j 00:02	12°♒30'02		
retrograde	-10442 Aug 01 j 00:21	14°♒23'00		
opposition	-10442 Oct 16 j 22:33	13°♒00'33	-2°00'58	
min. Earth dist.	-10442 Oct 17 j 18:38	12°♒59'08	29.05814 AU	
direct	-10441 Jan 05 j 04:13	11°♒34'55		
evening set	-10441 Apr 06 j 12:06	13°♒32'14		
conjunction	-10441 Apr 22 j 14:09	14°♒07'52	-1°50'54	
minimum elong	-10441 Apr 22 j 14:10	14°♒07'52	1°51'22	
max. Earth dist.	-10441 Apr 21 j 14:51	14°♒05'42	31.06148 AU	
morning rise	-10441 May 08 j 12:45	14°♒43'12		
	-10441 May 16 j 08:54	15°♒		
retrograde	-10441 Aug 03 j 12:24	16°♒36'04		
opposition	-10441 Oct 19 j 09:14	15°♒13'39	-1°56'13	
min. Earth dist.	-10441 Oct 20 j 05:23	15°♒12'15	29.06728 AU	
	-10441 Oct 27 j 13:05	15°℞♒		
direct	-10440 Jan 07 j 17:00	13°♒48'01		
	-10440 Mar 16 j 23:04	15°♒		
evening set	-10440 Apr 08 j 01:14	15°♒45'20		
max. Earth dist.	-10440 Apr 23 j 04:01	16°♒18'48	31.07006 AU	
conjunction	-10440 Apr 24 j 03:11	16°♒20'57	-1°46'22	
minimum elong	-10440 Apr 24 j 03:12	16°♒20'57	1°46'48	
morning rise	-10440 May 10 j 01:17	16°♒56'16		
retrograde	-10440 Aug 04 j 22:32	18°♒49'00		
opposition	-10440 Oct 20 j 20:02	17°♒26'38	-1°51'17	
min. Earth dist.	-10440 Oct 21 j 17:50	17°♒25'07	29.07524 AU	
direct	-10439 Jan 09 j 05:55	16°♒00'59		
evening set	-10439 Apr 10 j 14:24	17°♒58'17		
conjunction	-10439 Apr 26 j 15:57	18°♒33'52	-1°41'41	
minimum elong	-10439 Apr 26 j 15:58	18°♒33'53	1°42'08	
max. Earth dist.	-10439 Apr 25 j 15:17	18°♒31'35	31.07772 AU	
morning rise	-10439 May 12 j 13:52	19°♒09'09		
retrograde	-10439 Aug 07 j 10:47	21°♒01'45		
opposition	-10439 Oct 23 j 06:47	19°♒39'26	-1°46'12	
min. Earth dist.	-10439 Oct 24 j 04:15	19°♒37'55	29.08239 AU	
direct	-10438 Jan 11 j 20:04	18°♒13'45		
evening set	-10438 Apr 13 j 03:08	20°♒11'00		
max. Earth dist.	-10438 Apr 28 j 03:50	20°♒44'17	31.08459 AU	
conjunction	-10438 Apr 29 j 04:30	20°♒46'35	-1°36'52	
minimum elong	-10438 Apr 29 j 04:31	20°♒46'35	1°37'17	
morning rise	-10438 May 15 j 01:58	21°♒21'49		
retrograde	-10438 Aug 09 j 20:44	23°♒14'18		
opposition	-10438 Oct 25 j 17:37	21°♒51'59	-1°40'58	
min. Earth dist.	-10438 Oct 26 j 16:34	21°♒50'23	29.08905 AU	
direct	-10437 Jan 14 j 08:11	20°♒26'17		
evening set	-10437 Apr 15 j 15:52	22°♒23'30		
conjunction	-10437 May 01 j 16:56	22°♒59'02	-1°31'54	
minimum elong	-10437 May 01 j 16:57	22°♒59'02	1°32'19	
max. Earth dist.	-10437 Apr 30 j 15:46	22°♒56'42	31.09130 AU	
morning rise	-10437 May 17 j 14:08	23°♒34'15		
retrograde	-10437 Aug 12 j 06:17	25°♒26'36		
opposition	-10437 Oct 28 j 04:10	24°♒04'18	-1°35'36	
min. Earth dist.	-10437 Oct 29 j 02:40	24°♒02'44	29.09564 AU	
direct	-10436 Jan 16 j 21:45	22°♒38'34		
evening set	-10436 Apr 17 j 04:30	24°♒35'44		

Attention, astronomical year style is used: The year -10436 in astronomical counting style is the year 10437 BCE in historical counting style.

max. Earth dist.	-10436 May 02 j 03:28	25°♒08'52	31.09811 AU
conjunction	-10436 May 03 j 05:14	25°♒11'16	-1°26'49
minimum elong	-10436 May 03 j 05:15	25°♒11'16	1°27'12
morning rise	-10436 May 19 j 02:04	25°♒46'27	
retrograde	-10436 Aug 13 j 15:58	27°♒38'41	
opposition	-10436 Oct 29 j 15:00	26°♒16'24	-1°30'06
min. Earth dist.	-10436 Oct 30 j 14:19	26°♒14'47	29.10278 AU
direct	-10435 Jan 18 j 08:33	24°♒50'39	
evening set	-10435 Apr 19 j 16:50	26°♒47'47	
conjunction	-10435 May 05 j 17:18	27°♒23'17	-1°21'36
minimum elong	-10435 May 05 j 17:19	27°♒23'17	1°21'59
max. Earth dist.	-10435 May 04 j 16:06	27°♒20'56	31.10571 AU
morning rise	-10435 May 21 j 13:41	27°♒58'27	
retrograde	-10435 Aug 16 j 01:11	29°♒50'34	
opposition	-10435 Nov 01 j 01:52	28°♒28'20	-1°24'28
min. Earth dist.	-10435 Nov 02 j 00:58	28°♒26'43	29.11073 AU
direct	-10434 Jan 20 j 20:58	27°♒02'35	
evening set	-10434 Apr 22 j 05:13	28°♒59'41	
max. Earth dist.	-10434 May 07 j 03:08	29°♒32'44	31.11434 AU
conjunction	-10434 May 08 j 05:13	29°♒35'10	-1°16'17
minimum elong	-10434 May 08 j 05:13	29°♒35'10	1°16'38
	-10434 May 19 j 08:47	0°♓	
morning rise	-10434 May 24 j 01:18	0°♓10'18	
retrograde	-10434 Aug 18 j 11:43	2°♓02'21	
opposition	-10434 Nov 03 j 12:37	0°♓40'09	-1°18'43
min. Earth dist.	-10434 Nov 04 j 11:40	0°♓38'33	29.12003 AU
	-10434 Nov 28 j 12:50	30°℞♒	
direct	-10433 Jan 23 j 07:44	29°♒14'26	
	-10433 Mar 18 j 16:02	0°♓	
evening set	-10433 Apr 24 j 17:17	1°♓11'32	
conjunction	-10433 May 10 j 17:06	1°♓46'59	-1°10'50
minimum elong	-10433 May 10 j 17:07	1°♓46'59	1°11'11
max. Earth dist.	-10433 May 09 j 16:08	1°♓44'39	31.12429 AU
morning rise	-10433 May 26 j 12:41	2°♓22'05	
retrograde	-10433 Aug 20 j 21:20	4°♓14'05	
opposition	-10433 Nov 05 j 23:33	2°♓51'58	-1°12'50
min. Earth dist.	-10433 Nov 06 j 23:03	2°♓50'20	29.13033 AU
direct	-10432 Jan 25 j 20:34	1°♓26'17	
evening set	-10432 Apr 26 j 05:34	3°♓23'23	
max. Earth dist.	-10432 May 11 j 02:43	3°♓56'23	31.13517 AU
conjunction	-10432 May 12 j 04:49	3°♓58'49	-1°05'18
minimum elong	-10432 May 12 j 04:50	3°♓58'49	1°05'36
morning rise	-10432 May 28 j 00:09	4°♓33'54	
retrograde	-10432 Aug 22 j 09:03	6°♓25'52	
opposition	-10432 Nov 07 j 10:23	5°♓03'49	-1°06'52
min. Earth dist.	-10432 Nov 08 j 09:16	5°♓02'14	29.14149 AU
direct	-10431 Jan 27 j 08:02	3°♓38'13	
evening set	-10431 Apr 28 j 17:39	5°♓35'20	
conjunction	-10431 May 14 j 16:40	6°♓10'44	-0°59'39
minimum elong	-10431 May 14 j 16:40	6°♓10'44	0°59'57
max. Earth dist.	-10431 May 13 j 15:26	6°♓08'23	31.14653 AU
morning rise	-10431 May 30 j 11:23	6°♓45'47	
retrograde	-10431 Aug 24 j 19:23	8°♓37'44	
opposition	-10431 Nov 09 j 21:34	7°♓15'46	-1°00'47
min. Earth dist.	-10431 Nov 10 j 21:37	7°♓14'06	29.15280 AU
direct	-10430 Jan 29 j 20:17	5°♓50'15	
evening set	-10430 May 01 j 05:41	7°♓47'22	
max. Earth dist.	-10430 May 16 j 01:57	8°♓20'18	31.15779 AU
conjunction	-10430 May 17 j 04:08	8°♓22'45	-0°53'56
minimum elong	-10430 May 17 j 04:09	8°♓22'45	0°54'11
morning rise	-10430 Jun 01 j 22:36	8°♓57'46	
retrograde	-10430 Aug 27 j 07:55	10°♓49'41	
opposition	-10430 Nov 12 j 08:37	9°♓27'49	-0°54'37
min. Earth dist.	-10430 Nov 13 j 08:02	9°♓26'11	29.16366 AU
direct	-10429 Feb 01 j 10:09	8°♓02'22	
evening set	-10429 May 03 j 17:44	9°♓59'29	
conjunction	-10429 May 19 j 15:51	10°♓34'50	-0°48'07
minimum elong	-10429 May 19 j 15:51	10°♓34'50	0°48'23
max. Earth dist.	-10429 May 18 j 13:50	10°♓32'24	31.16816 AU
morning rise	-10429 Jun 04 j 09:44	11°♓09'49	
retrograde	-10429 Aug 29 j 18:24	13°♓01'43	
opposition	-10429 Nov 14 j 19:47	11°♓39'54	-0°48'22
min. Earth dist.	-10429 Nov 15 j 20:37	11°♓38'11	29.17351 AU
direct	-10428 Feb 03 j 22:16	10°♓14'30	
evening set	-10428 May 05 j 05:50	12°♓11'36	
max. Earth dist.	-10428 May 20 j 00:58	12°♓44'27	31.17745 AU
conjunction	-10428 May 21 j 03:27	12°♓46'55	-0°42'15
minimum elong	-10428 May 21 j 03:27	12°♓46'55	0°42'28
morning rise	-10428 Jun 05 j 20:55	13°♓21'53	
retrograde	-10428 Aug 31 j 04:15	15°♓13'44	
opposition	-10428 Nov 16 j 07:04	13°♓51'58	-0°42'04
min. Earth dist.	-10428 Nov 17 j 07:23	13°♓50'17	29.18199 AU
direct	-10427 Feb 05 j 11:54	12°♓26'36	
evening set	-10427 May 07 j 17:44	14°♓23'40	
max. Earth dist.	-10427 May 22 j 11:44	14°♓56'26	31.18527 AU
conjunction	-10427 May 23 j 14:50	14°♓58'57	-0°36'19
minimum elong	-10427 May 23 j 14:51	14°♓58'57	0°36'32
morning rise	-10427 Jun 08 j 07:49	15°♓33'53	
retrograde	-10427 Sep 02 j 14:24	17°♓25'42	
opposition	-10427 Nov 18 j 18:28	16°♓03'57	-0°35'42
min. Earth dist.	-10427 Nov 19 j 19:37	16°♓02'13	29.18925 AU
direct	-10426 Feb 07 j 23:13	14°♓38'37	
evening set	-10426 May 10 j 05:30	16°♓35'37	
max. Earth dist.	-10426 May 24 j 23:31	17°♓08'23	31.19199 AU
conjunction	-10426 May 26 j 02:12	17°♓10'52	-0°30'20
minimum elong	-10426 May 26 j 02:12	17°♓10'52	0°30'32
morning rise	-10426 Jun 10 j 18:40	17°♓45'46	
retrograde	-10426 Sep 04 j 23:26	19°♓37'32	
opposition	-10426 Nov 21 j 05:43	18°♓15'47	-0°29'17
min. Earth dist.	-10426 Nov 22 j 06:53	18°♓14'03	29.19533 AU
direct	-10425 Feb 10 j 12:02	16°♓50'27	
evening set	-10425 May 12 j 17:11	18°♓47'23	
max. Earth dist.	-10425 May 27 j 09:37	19°♓20'01	31.19770 AU
conjunction	-10425 May 28 j 13:18	19°♓22'36	-0°24'20
minimum elong	-10425 May 28 j 13:18	19°♓22'36	0°24'30
morning rise	-10425 Jun 13 j 05:24	19°♓57'28	
retrograde	-10425 Sep 07 j 09:15	21°♓49'11	
opposition	-10425 Nov 23 j 17:00	20°♓27'25	-0°22'51
min. Earth dist.	-10425 Nov 24 j 18:12	20°♓25'41	29.20076 AU
direct	-10424 Feb 12 j 23:24	19°♓02'05	
evening set	-10424 May 14 j 04:36	20°♓58'57	
max. Earth dist.	-10424 May 28 j 21:51	21°♓31'39	31.20291 AU
conjunction	-10424 May 30 j 00:20	21°♓34'07	-0°18'18
minimum elong	-10424 May 30 j 00:20	21°♓34'07	0°18'26
morning rise	-10424 Jun 14 j 15:47	22°♓08'57	
retrograde	-10424 Sep 08 j 17:37	24°♓00'38	
opposition	-10424 Nov 25 j 04:25	22°♓38'51	-0°16'22
min. Earth dist.	-10424 Nov 26 j 05:58	22°♓37'05	29.20583 AU
direct	-10423 Feb 14 j 11:48	21°♓13'30	
evening set	-10423 May 16 j 16:03	23°♓10'17	
max. Earth dist.	-10423 May 31 j 07:47	23°♓42'52	31.20818 AU

Attention, astronomical year style is used: The year -10423 in astronomical counting style is the year 10424 BCE in historical counting style.

conjunction	-10423 Jun 01 j 11:04	23°♓45'25	-0°12'15	
minimum elong	-10423 Jun 01 j 11:04	23°♓45'25	0°12'22	
behind sun begin	-10423 Jun 01 j 06:48	23°♓45'02		
behind sun end	-10423 Jun 01 j 15:21	23°♓45'48		
morning rise	-10423 Jun 17 j 02:10	24°♓20'13		
retrograde	-10423 Sep 11 j 04:41	26°♓11'52		
opposition	-10423 Nov 27 j 15:47	24°♓50'03	-0°09'53	
min. Earth dist.	-10423 Nov 28 j 16:15	24°♓48'22	29.21138 AU	
direct	-10422 Feb 16 j 22:40	23°♓24'43		
evening set	-10422 May 19 j 03:05	25°♓21'26		
conjunction	-10422 Jun 03 j 21:42	25°♓56'31	-0°06'12	
minimum elong	-10422 Jun 03 j 21:43	25°♓56'31	0°06'17	
behind sun begin	-10422 Jun 03 j 15:36	25°♓55'59		
behind sun end	-10422 Jun 04 j 03:50	25°♓57'04		
max. Earth dist.	-10422 Jun 02 j 19:47	25°♓54'06	31.21400 AU	
morning rise	-10422 Jun 19 j 12:09	26°♓31'16		
retrograde	-10422 Sep 13 j 14:08	28°♓22'55		
opposition	-10422 Nov 30 j 03:17	27°♓01'06	-0°03'23	
min. Earth dist.	-10422 Dec 01 j 04:21	26°♓59'23	29.21761 AU	
direct	-10421 Feb 19 j 11:11	25°♓35'47		
evening set	-10421 May 21 j 14:18	27°♓32'27		
max. Earth dist.	-10421 Jun 05 j 05:58	28°♓05'02	31.22077 AU	
conjunction	-10421 Jun 06 j 08:14	28°♓07'30	-0°00'04	
minimum elong	-10421 Jun 06 j 08:14	28°♓07'30	0°00'09	
behind sun begin	-10421 Jun 06 j 01:53	28°♓06'56		
behind sun end	-10421 Jun 06 j 14:35	28°♓08'03		
asc. node	-10421 Jun 09 j 11:43	28°♓14'34		
morning rise	-10421 Jun 21 j 22:16	28°♓42'12		
	-10421 Aug 02 j 04:44	0°♈		
retrograde	-10421 Sep 16 j 01:52	0°♈33'50		
	-10421 Nov 01 j 12:01	30°♓		
opposition	-10421 Dec 02 j 14:31	29°♓12'02	0°03'07	
min. Earth dist.	-10421 Dec 03 j 14:14	29°♓10'24	29.22480 AU	
direct	-10420 Feb 22 j 00:31	27°♓46'46		
evening set	-10420 May 23 j 01:23	29°♓43'24		
	-10420 May 30 j 13:41	0°♈		
conjunction	-10420 Jun 07 j 18:49	0°♈18'24	0°06'06	
minimum elong	-10420 Jun 07 j 18:49	0°♈18'24	0°06'02	
behind sun begin	-10420 Jun 07 j 12:40	0°♈17'51		
behind sun end	-10420 Jun 08 j 00:59	0°♈18'57		
max. Earth dist.	-10420 Jun 06 j 17:27	0°♈16'02	31.22839 AU	
morning rise	-10420 Jun 23 j 08:13	0°♈53'04		
retrograde	-10420 Sep 17 j 12:13	2°♈44'44		
opposition	-10420 Dec 04 j 02:09	1°♈22'57	0°09'36	
min. Earth dist.	-10420 Dec 05 j 02:29	1°♈21'17	29.23284 AU	
	-10419 Feb 11 j 15:21	30°♓		
direct	-10419 Feb 23 j 12:04	29°♓57'46		
	-10419 Mar 07 j 08:07	0°♈		
evening set	-10419 May 25 j 12:17	1°♈54'21		
max. Earth dist.	-10419 Jun 09 j 04:12	2°♈26'59	31.23673 AU	
conjunction	-10419 Jun 10 j 05:06	2°♈29'19	0°12'09	
minimum elong	-10419 Jun 10 j 05:06	2°♈29'19	0°12'06	
behind sun begin	-10419 Jun 10 j 00:41	2°♈28'55		
behind sun end	-10419 Jun 10 j 09:30	2°♈29'42		
morning rise	-10419 Jun 25 j 18:00	3°♈03'57		
retrograde	-10419 Sep 19 j 22:23	4°♈55'39		
opposition	-10419 Dec 06 j 13:44	3°♈33'55	0°16'06	
min. Earth dist.	-10419 Dec 07 j 12:55	3°♈32'19	29.24119 AU	
direct	-10418 Feb 26 j 01:30	2°♈08'48		
evening set	-10418 May 27 j 23:15	4°♈05'22		
conjunction	-10418 Jun 12 j 15:26	4°♈40'17	0°18'11	
minimum elong	-10418 Jun 12 j 15:26	4°♈40'17	0°18'11	
max. Earth dist.	-10418 Jun 11 j 14:29	4°♈37'57	31.24503 AU	
morning rise	-10418 Jun 28 j 03:49	5°♈14'53		
retrograde	-10418 Sep 22 j 09:16	7°♈06'38		
opposition	-10418 Dec 09 j 01:21	5°♈44'56	0°22'33	
min. Earth dist.	-10418 Dec 10 j 00:55	5°♈43'19	29.24943 AU	
direct	-10417 Feb 28 j 12:53	4°♈19'54		
evening set	-10417 May 30 j 10:07	6°♈16'26		
max. Earth dist.	-10417 Jun 14 j 01:42	6°♈49'04	31.25288 AU	
conjunction	-10417 Jun 15 j 01:48	6°♈51'19	0°24'13	
minimum elong	-10417 Jun 15 j 01:47	6°♈51'19	0°24'13	
morning rise	-10417 Jun 30 j 13:33	7°♈25'53		
retrograde	-10417 Sep 24 j 18:34	9°♈17'41		
opposition	-10417 Dec 11 j 13:09	7°♈56'00	0°28'59	
min. Earth dist.	-10417 Dec 12 j 12:27	7°♈54'25	29.25670 AU	
direct	-10416 Mar 02 j 02:01	6°♈31'03		
evening set	-10416 May 31 j 21:05	8°♈27'33		
max. Earth dist.	-10416 Jun 15 j 11:06	9°♈00'03	31.25954 AU	
conjunction	-10416 Jun 16 j 11:58	9°♈02'23	0°30'12	
minimum elong	-10416 Jun 16 j 11:57	9°♈02'23	0°30'15	
morning rise	-10416 Jul 01 j 23:15	9°♈36'55		
retrograde	-10416 Sep 26 j 04:54	11°♈28'46		
opposition	-10416 Dec 13 j 01:03	10°♈07'06	0°35'22	
min. Earth dist.	-10416 Dec 14 j 00:07	10°♈05'32	29.26285 AU	
direct	-10415 Mar 04 j 12:57	8°♈42'12		
evening set	-10415 Jun 03 j 07:53	10°♈38'39		
conjunction	-10415 Jun 18 j 22:17	11°♈13'27	0°36'09	
minimum elong	-10415 Jun 18 j 22:17	11°♈13'27	0°36'12	
max. Earth dist.	-10415 Jun 17 j 22:40	11°♈11'15	31.26493 AU	
morning rise	-10415 Jul 04 j 08:51	11°♈47'57		
retrograde	-10415 Sep 28 j 13:36	13°♈39'51		
opposition	-10415 Dec 15 j 13:05	12°♈18'11	0°41'42	
min. Earth dist.	-10415 Dec 16 j 12:29	12°♈16'36	29.26753 AU	
direct	-10414 Mar 07 j 00:59	10°♈53'20		
evening set	-10414 Jun 05 j 18:38	12°♈49'43		
max. Earth dist.	-10414 Jun 20 j 07:46	13°♈22'11	31.26893 AU	
conjunction	-10414 Jun 21 j 08:15	13°♈24'29	0°42'03	
minimum elong	-10414 Jun 21 j 08:15	13°♈24'29	0°42'08	
morning rise	-10414 Jul 06 j 18:27	13°♈58'56		
retrograde	-10414 Oct 01 j 00:49	15°♈50'54		
opposition	-10414 Dec 18 j 00:58	14°♈29'12	0°47'58	
min. Earth dist.	-10414 Dec 18 j 23:23	14°♈27'41	29.27090 AU	
direct	-10413 Mar 09 j 11:40	13°♈04'23		
evening set	-10413 Jun 08 j 05:14	15°♈00'42		
conjunction	-10413 Jun 23 j 18:22	15°♈35'25	0°47'53	
minimum elong	-10413 Jun 23 j 18:21	15°♈35'24	0°47'58	
max. Earth dist.	-10413 Jun 22 j 18:58	15°♈33'13	31.27160 AU	
morning rise	-10413 Jul 09 j 03:49	16°♈09'50		
retrograde	-10413 Oct 03 j 10:17	18°♈01'50		
opposition	-10413 Dec 20 j 12:56	16°♈40'06	0°54'10	
min. Earth dist.	-10413 Dec 21 j 12:06	16°♈38'32	29.27309 AU	
direct	-10412 Mar 11 j 00:03	15°♈15'19		
evening set	-10412 Jun 09 j 15:49	17°♈11'33		
max. Earth dist.	-10412 Jun 24 j 04:36	17°♈44'00	31.27346 AU	
conjunction	-10412 Jun 25 j 04:11	17°♈46'13	0°53'38	
minimum elong	-10412 Jun 25 j 04:11	17°♈46'13	0°53'45	
morning rise	-10412 Jul 10 j 13:14	18°♈20'35		
retrograde	-10412 Oct 04 j 22:00	20°♈12'38		
opposition	-10412 Dec 22 j 00:55	18°♈50'52	1°00'16	
min. Earth dist.	-10412 Dec 22 j 22:38	18°♈49'23	29.27469 AU	
direct	-10411 Mar 13 j 12:57	17°♈26'05		
evening set	-10411 Jun 12 j 02:03	19°♈22'15		

Attention, astronomical year style is used: The year -10411 in astronomical counting style is the year 10412 BCE in historical counting style.

conjunction	-10411 Jun 27 j 13:50	19°♈56'51	0°59'18	
minimum elong	-10411 Jun 27 j 13:49	19°♈56'51	0°59'26	
max. Earth dist.	-10411 Jun 26 j 15:14	19°♈54'44	31.27485 AU	
morning rise	-10411 Jul 12 j 22:14	20°♈31'12		
retrograde	-10411 Oct 07 j 08:17	22°♈23'19		
opposition	-10411 Dec 24 j 13:03	21°♈01'28	1°06'17	
min. Earth dist.	-10411 Dec 25 j 11:08	20°♈59'58	29.27626 AU	
direct	-10410 Mar 16 j 00:14	19°♈36'42		
evening set	-10410 Jun 14 j 12:17	21°♈32'48		
conjunction	-10410 Jun 29 j 23:24	22°♈07'21	1°04'53	
minimum elong	-10410 Jun 29 j 23:24	22°♈07'21	1°05'03	
max. Earth dist.	-10410 Jun 29 j 01:42	22°♈05'19	31.27659 AU	
morning rise	-10410 Jul 15 j 07:17	22°♈41'39		
retrograde	-10410 Oct 09 j 18:11	24°♈33'49		
opposition	-10410 Dec 27 j 00:53	23°♈11'57	1°12'12	
min. Earth dist.	-10410 Dec 27 j 21:24	23°♈10'33	29.27830 AU	
direct	-10409 Mar 18 j 13:57	21°♈47'13		
evening set	-10409 Jun 16 j 22:28	23°♈43'15		
max. Earth dist.	-10409 Jul 01 j 11:29	24°♈15'45	31.27896 AU	
conjunction	-10409 Jul 02 j 08:54	24°♈17'45	1°10'22	
minimum elong	-10409 Jul 02 j 08:53	24°♈17'45	1°10'33	
morning rise	-10409 Jul 17 j 16:15	24°♈52'01		
retrograde	-10409 Oct 12 j 05:26	26°♈44'15		
opposition	-10409 Dec 29 j 12:59	25°♈22'21	1°18'01	
min. Earth dist.	-10409 Dec 30 j 09:09	25°♈20'59	29.28131 AU	
direct	-10408 Mar 20 j 01:54	23°♈57'40		
evening set	-10408 Jun 18 j 08:26	25°♈53'39		
conjunction	-10408 Jul 03 j 18:18	26°♈28'07	1°15'45	
minimum elong	-10408 Jul 03 j 18:17	26°♈28'07	1°15'58	
max. Earth dist.	-10408 Jul 02 j 22:34	26°♈26'16	31.28241 AU	
morning rise	-10408 Jul 19 j 00:59	27°♈02'20		
retrograde	-10408 Oct 13 j 14:34	28°♈54'40		
opposition	-10408 Dec 31 j 01:10	27°♈32'45	1°23'43	
min. Earth dist.	-10408 Dec 31 j 20:15	27°♈31'28	29.28519 AU	
direct	-10407 Mar 22 j 15:12	26°♈08'09		
evening set	-10407 Jun 20 j 18:31	28°♈04'05		
max. Earth dist.	-10407 Jul 05 j 07:49	28°♈36'38	31.28672 AU	
conjunction	-10407 Jul 06 j 03:36	28°♈38'30	1°21'02	
minimum elong	-10407 Jul 06 j 03:35	28°♈38'30	1°21'15	
morning rise	-10407 Jul 21 j 09:54	29°♈12'41		
	-10407 Aug 13 j 07:41	0°♉		
retrograde	-10407 Oct 16 j 00:51	1°♉05'08		
	-10407 Dec 23 j 03:44	30°℞♈		
opposition	-10406 Jan 02 j 13:18	29°♈43'13	1°29'18	
min. Earth dist.	-10406 Jan 03 j 07:26	29°♈42'00	29.28997 AU	
direct	-10406 Mar 25 j 01:42	28°♈18'42		
	-10406 Jun 16 j 10:51	0°♉		
evening set	-10406 Jun 23 j 04:19	0°♉14'35		
conjunction	-10406 Jul 08 j 12:56	0°♉48'58	1°26'11	
minimum elong	-10406 Jul 08 j 12:56	0°♉48'58	1°26'27	
max. Earth dist.	-10406 Jul 07 j 19:04	0°♉47'17	31.29157 AU	
morning rise	-10406 Jul 23 j 18:35	1°♉23'07		
retrograde	-10406 Oct 18 j 09:23	3°♉15'41		
opposition	-10405 Jan 05 j 01:36	1°♉53'47	1°34'45	
min. Earth dist.	-10405 Jan 05 j 19:35	1°♉52'34	29.29483 AU	
direct	-10405 Mar 27 j 13:39	0°♉29'21		
evening set	-10405 Jun 25 j 14:22	2°♉25'11		
conjunction	-10405 Jul 10 j 22:10	2°♉59'32	1°31'14	
minimum elong	-10405 Jul 10 j 22:09	2°♉59'32	1°31'30	
max. Earth dist.	-10405 Jul 10 j 03:58	2°♉57'49	31.29630 AU	
morning rise	-10405 Jul 26 j 03:26	3°♉33'40		
retrograde	-10405 Oct 20 j 20:58	5°♉26'20		
opposition	-10404 Jan 07 j 13:48	4°♉04'26	1°40'04	
min. Earth dist.	-10404 Jan 08 j 06:22	4°♉03'19	29.29940 AU	
direct	-10404 Mar 29 j 00:07	2°♉40'06		
evening set	-10404 Jun 27 j 00:16	4°♉35'53		
conjunction	-10404 Jul 12 j 07:34	5°♉10'11	1°36'09	
minimum elong	-10404 Jul 12 j 07:33	5°♉10'11	1°36'26	
max. Earth dist.	-10404 Jul 11 j 14:45	5°♉08'36	31.30036 AU	
morning rise	-10404 Jul 27 j 12:09	5°♉44'17		
retrograde	-10404 Oct 22 j 06:34	7°♉37'05		
opposition	-10403 Jan 09 j 02:24	6°♉15'10	1°45'15	
min. Earth dist.	-10403 Jan 09 j 19:24	6°♉14'01	29.30310 AU	
direct	-10403 Mar 31 j 11:37	4°♉50'54		
evening set	-10403 Jun 29 j 10:10	6°♉46'38		
conjunction	-10403 Jul 14 j 16:45	7°♉20'53	1°40'55	
minimum elong	-10403 Jul 14 j 16:44	7°♉20'53	1°41'13	
max. Earth dist.	-10403 Jul 13 j 23:59	7°♉19'18	31.30348 AU	
morning rise	-10403 Jul 29 j 20:58	7°♉54'56		
retrograde	-10403 Oct 24 j 18:19	9°♉47'52		
opposition	-10402 Jan 11 j 14:53	8°♉25'55	1°50'17	
min. Earth dist.	-10402 Jan 12 j 06:21	8°♉24'53	29.30561 AU	
direct	-10402 Apr 02 j 23:08	7°♉01'43		
evening set	-10402 Jul 01 j 20:05	8°♉57'22		
max. Earth dist.	-10402 Jul 16 j 10:01	9°♉30'04	31.30517 AU	
conjunction	-10402 Jul 17 j 02:07	9°♉31'35	1°45'33	
minimum elong	-10402 Jul 17 j 02:06	9°♉31'35	1°45'52	
morning rise	-10402 Aug 01 j 05:47	10°♉05'37		
retrograde	-10402 Oct 27 j 05:08	11°♉58'39		
opposition	-10401 Jan 14 j 03:22	10°♉36'39	1°55'09	
min. Earth dist.	-10401 Jan 14 j 19:22	10°♉35'34	29.30678 AU	
direct	-10401 Apr 05 j 09:29	9°♉12'29		
evening set	-10401 Jul 04 j 05:56	11°♉08'04		
conjunction	-10401 Jul 19 j 11:24	11°♉42'14	1°50'02	
minimum elong	-10401 Jul 19 j 11:23	11°♉42'14	1°50'22	
max. Earth dist.	-10401 Jul 18 j 20:04	11°♉40'47	31.30564 AU	
morning rise	-10401 Aug 03 j 14:36	12°♉16'14		
retrograde	-10401 Oct 29 j 15:56	14°♉09'22		
opposition	-10400 Jan 16 j 15:56	12°♉47'19	1°59'51	
min. Earth dist.	-10400 Jan 17 j 06:30	12°♉46'20	29.30659 AU	
direct	-10400 Apr 06 j 23:25	11°♉23'10		
evening set	-10400 Jul 05 j 15:37	13°♉18'40		
conjunction	-10400 Jul 20 j 20:26	13°♉52'47	1°54'21	
minimum elong	-10400 Jul 20 j 20:26	13°♉52'47	1°54'43	
max. Earth dist.	-10400 Jul 20 j 05:10	13°♉51'21	31.30482 AU	
morning rise	-10400 Aug 04 j 23:16	14°♉26'45		
	-10400 Aug 20 j 14:55	15°♉		
retrograde	-10400 Oct 31 j 03:56	16°♉19'59		
	-10399 Jan 16 j 20:45	15°℞♉		
opposition	-10399 Jan 18 j 04:39	14°♉57'51	2°04'23	
min. Earth dist.	-10399 Jan 18 j 19:01	14°♉56'53	29.30551 AU	
direct	-10399 Apr 09 j 11:16	13°♉33'44		
	-10399 Jun 24 j 09:20	15°♉		
evening set	-10399 Jul 08 j 01:09	15°♉29'08		
conjunction	-10399 Jul 23 j 05:34	16°♉03'13	1°58'30	
minimum elong	-10399 Jul 23 j 05:33	16°♉03'13	1°58'53	
max. Earth dist.	-10399 Jul 22 j 15:58	16°♉01'56	31.30337 AU	
morning rise	-10399 Aug 07 j 07:52	16°♉37'09		
retrograde	-10399 Nov 02 j 13:15	18°♉30'28		