Attention, astronomical year style is used: The year -7900 in astronomical counting style is the year 7901 BCE in historical counting style.

direct	-7900 Feb 18 j 22:21	10°♈58'13	
evening set	-7900 May 22 j 17:14	12°♈45'53	
max. Earth dist.	-7900 May 31 j 13:12	13°♈03'04	35.63349 AU
conjunction	-7900 Jun 04 j 03:43	13°♈10'09	9°27'32
minimum elong	-7900 Jun 04 j 03:21	13°♈10'07	9°27'36
morning rise	-7900 Jun 16 j 11:09	13°♈34'11	
retrograde	-7900 Sep 13 j 14:49	15°♈18'17	
opposition	-7900 Nov 30 j 06:43	14°♈04'17	10°14'47
min. Earth dist.	-7900 Dec 03 j 13:35	13°♈59'24	33.53868 AU
direct	-7899 Feb 20 j 00:00	12°♈46'50	
evening set	-7899 May 25 j 05:41	14°♈36'27	
max. Earth dist.	-7899 Jun 02 j 15:54	14°♈53'01	35.38348 AU
conjunction	-7899 Jun 06 j 06:41	15°♈00'11	9°53'44
minimum elong	-7899 Jun 06 j 06:18	15°♈00'09	9°53'48
morning rise	-7899 Jun 18 j 04:35	15°♈23'42	
retrograde	-7899 Sep 15 j 19:34	17°♈09'38	
opposition	-7899 Dec 02 j 09:14	15°♈55'12	10°42'41
min. Earth dist.	-7899 Dec 05 j 17:03	15°♈50'13	33.29243 AU
direct	-7898 Feb 22 j 01:21	14°♈37'16	
evening set	-7898 May 27 j 19:32	16°♈28'54	
max. Earth dist.	-7898 Jun 04 j 20:35	16°♈44'53	35.13558 AU
conjunction	-7898 Jun 08 j 10:10	16°♈52'01	10°19'43
minimum elong	-7898 Jun 08 j 09:48	16°♈52'00	10°19'49
morning rise	-7898 Jun 19 j 21:52	17°♈14'57	
retrograde	-7898 Sep 17 j 23:32	19°♈02'49	
opposition	-7898 Dec 04 j 12:28	17°♈47'56	11°10'20
min. Earth dist.	-7898 Dec 07 j 18:58	17°♈42'59	33.04868 AU
direct	-7897 Feb 24 j 05:18	16°♈29'31	
evening set	-7897 May 30 j 10:42	18°♈23'16	
max. Earth dist.	-7897 Jun 07 j 00:21	18°♈38'28	34.89047 AU
conjunction	-7897 Jun 10 j 14:21	18°♈45'43	10°45'25
minimum elong	-7897 Jun 10 j 13:56	18°♈45'41	10°45'31
morning rise	-7897 Jun 21 j 15:16	19°♈07'58	
retrograde	-7897 Sep 20 j 05:21	20°♈57'52	
opposition	-7897 Dec 06 j 16:31	19°♈42'31	11°37'40
min. Earth dist.	-7897 Dec 09 j 23:09	19°♈37'32	32.80842 AU
direct	-7896 Feb 26 j 07:55	18°♈23'38	
evening set	-7896 Jun 01 j 03:16	20°♈19'35	
max. Earth dist.	-7896 Jun 08 j 07:15	20°♈34'08	34.64911 AU
conjunction	-7896 Jun 11 j 19:14	20°♈41'17	11°10'46
minimum elong	-7896 Jun 11 j 18:49	20°♈41'15	11°10'54
morning rise	-7896 Jun 22 j 08:26	21°♈02'46	
retrograde	-7896 Sep 21 j 10:16	22°♈54'49	
opposition	-7896 Dec 07 j 21:28	21°♈39'02	12°04'38
min. Earth dist.	-7896 Dec 11 j 03:00	21°♈34'05	32.57217 AU
direct	-7895 Feb 27 j 12:09	20°♈19'41	
evening set	-7895 Jun 03 j 21:31	22°♈17'57	
max. Earth dist.	-7895 Jun 10 j 12:49	22°♈31'34	34.41213 AU
conjunction	-7895 Jun 14 j 00:48	22°♈38'48	11°35'42
minimum elong	-7895 Jun 14 j 00:23	22°♈38'46	11°35'50
morning rise	-7895 Jun 24 j 01:43	22°♈59'27	
retrograde	-7895 Sep 23 j 17:15	24°♈53'45	
opposition	-7895 Dec 10 j 03:08	23°♈37'32	12°31'08
min. Earth dist.	-7895 Dec 13 j 07:48	23°♈32'37	32.34072 AU
direct	-7894 Mar 01 j 15:13	22°♈17'45	
evening set	-7894 Jun 06 j 17:23	24°♈18'28	
max. Earth dist.	-7894 Jun 12 j 21:13	24°♈31'13	34.17995 AU
conjunction	-7894 Jun 16 j 07:21	24°♈38'22	12°00'09
minimum elong	-7894 Jun 16 j 06:56	24°♈38'20	12°00'19
morning rise	-7894 Jun 25 j 18:52	24°♈58'05	
retrograde	-7894 Sep 25 j 23:37	26°♈54'45	
opposition	-7894 Dec 12 j 09:58	25°♈38'07	12°57'07
min. Earth dist.	-7894 Dec 15 j 14:07	25°♈33'12	32.11418 AU
direct	-7893 Mar 03 j 19:25	24°♈17'55	
evening set	-7893 Jun 09 j 14:56	26°♈21'11	
max. Earth dist.	-7893 Jun 15 j 04:59	26°♈32'53	33.95287 AU
conjunction	-7893 Jun 18 j 14:21	26°♈40'02	12°24'04
minimum elong	-7893 Jun 18 j 13:54	26°♈40'00	12°24'15
morning rise	-7893 Jun 27 j 11:41	26°♈58'43	
retrograde	-7893 Sep 28 j 09:34	28°♈57'53	
opposition	-7893 Dec 14 j 17:28	27°♈40'51	13°22'31
min. Earth dist.	-7893 Dec 17 j 19:53	27°♈36'02	31.89267 AU
direct	-7892 Mar 05 j 00:03	26°♈20'15	
evening set	-7892 Jun 11 j 14:25	28°♈26'13	
max. Earth dist.	-7892 Jun 16 j 14:12	28°♈36'47	33.73046 AU
conjunction	-7892 Jun 19 j 22:26	28°♈43'53	12°47'24
minimum elong	-7892 Jun 19 j 22:00	28°♈43'51	12°47'36
morning rise	-7892 Jun 28 j 04:24	29°♈01'25	
	-7892 Jul 27 j 14:47	0°♉	
retrograde	-7892 Sep 29 j 19:17	1°♉03'13	
	-7892 Dec 06 j 22:51	30°℞♈	
opposition	-7892 Dec 16 j 01:58	29°♈45'47	13°47'16
min. Earth dist.	-7892 Dec 19 j 04:37	29°♈40'55	31.67579 AU
direct	-7891 Mar 07 j 06:06	28°♈24'47	
	-7891 May 29 j 13:08	0°♉	
evening set	-7891 Jun 14 j 16:14	0°♉33'35	
max. Earth dist.	-7891 Jun 19 j 00:37	0°♉42'54	33.51268 AU
conjunction	-7891 Jun 22 j 07:18	0°♉49'57	13°10'04
minimum elong	-7891 Jun 22 j 06:51	0°♉49'54	13°10'17
morning rise	-7891 Jun 29 j 20:35	1°♉06'10	
retrograde	-7891 Oct 02 j 07:30	3°♉10'43	
opposition	-7891 Dec 18 j 11:28	1°♉52'54	14°11'19
min. Earth dist.	-7891 Dec 21 j 12:15	1°♉48'08	31.46332 AU
direct	-7890 Mar 09 j 16:03	0°♉31'30	
evening set	-7890 Jun 17 j 20:12	2°♉43'19	
max. Earth dist.	-7890 Jun 21 j 10:38	2°♉51'06	33.29913 AU
conjunction	-7890 Jun 24 j 16:57	2°♉58'11	13°32'02
minimum elong	-7890 Jun 24 j 16:30	2°♉58'08	13°32'16
morning rise	-7890 Jul 01 j 12:04	3°♉12'55	
retrograde	-7890 Oct 04 j 20:01	5°♉20'25	
opposition	-7890 Dec 20 j 22:03	4°♉02'11	14°34'35
min. Earth dist.	-7890 Dec 23 j 22:53	3°♉57'23	31.25519 AU
direct	-7889 Mar 12 j 00:43	2°♉40'23	
evening set	-7889 Jun 21 j 03:16	4°♉55'23	
max. Earth dist.	-7889 Jun 23 j 23:19	5°♉01'35	33.09007 AU
conjunction	-7889 Jun 27 j 03:30	5°♉08'32	13°53'12
minimum elong	-7889 Jun 27 j 03:03	5°♉08'30	13°53'27
morning rise	-7889 Jul 03 j 02:14	5°♉21'35	
retrograde	-7889 Oct 07 j 07:41	7°♉32'13	
opposition	-7889 Dec 23 j 09:26	6°♉13'35	14°56'59
min. Earth dist.	-7889 Dec 26 j 08:26	6°♉08'52	31.05148 AU
direct	-7888 Mar 13 j 11:53	4°♉51'22	
evening set	-7888 Jun 23 j 13:52	7°♉09'51	
max. Earth dist.	-7888 Jun 25 j 10:42	7°♉13'58	32.88562 AU
conjunction	-7888 Jun 28 j 14:42	7°♉20'59	14°13'31
minimum elong	-7888 Jun 28 j 14:16	7°♉20'56	14°13'48
morning rise	-7888 Jul 03 j 14:20	7°♉32'00	

Attention, astronomical year style is used: The year -7888 in astronomical counting style is the year 7889 BCE in historical counting style.

retrograde	-7888 Oct 08 j 21:47	9°♉46'04		
opposition	-7888 Dec 24 j 21:45	8°♉27'01	15°18'28	
min. Earth dist.	-7888 Dec 27 j 20:04	8°♉22'19	30.85259 AU	
direct	-7887 Mar 15 j 22:22	7°♉04'23		
evening set	-7887 Jun 27 j 06:15	9°♉26'49		
max. Earth dist.	-7887 Jun 28 j 01:24	9°♉28'36	32.68623 AU	
conjunction	-7887 Jul 01 j 02:48	9°♉35'25	14°32'54	
minimum elong	-7887 Jul 01 j 02:22	9°♉35'23	14°33'11	
morning rise	-7887 Jul 04 j 22:14	9°♉43'56		
retrograde	-7887 Oct 11 j 10:24	12°♉01'54		
opposition	-7887 Dec 27 j 11:02	10°♉42'26	15°38'54	
min. Earth dist.	-7887 Dec 30 j 07:56	10°♉37'48	30.65889 AU	
direct	-7886 Mar 18 j 10:44	9°♉19'24		
evening set	-7886 Jul 01 j 11:13	11°♉46'54		
max. Earth dist.	-7886 Jun 30 j 14:53	11°♉44'59	32.49268 AU	
conjunction	-7886 Jul 03 j 15:27	11°♉51'48	14°51'15	
minimum elong	-7886 Jul 03 j 15:03	11°♉51'46	14°51'34	
morning rise	-7886 Jul 05 j 18:51	11°♉56'38		
retrograde	-7886 Oct 14 j 01:08	14°♉19'40		
opposition	-7886 Dec 30 j 01:09	12°♉59'46	15°58'12	
min. Earth dist.	-7885 Jan 01 j 20:12	12°♉55'14	30.47145 AU	
direct	-7885 Mar 20 j 22:43	11°♉36'20		
max. Earth dist.	-7885 Jul 03 j 07:01	14°♉03'28	32.30572 AU	
conjunction	-7885 Jul 06 j 04:47	14°♉10'05	15°08'29	
minimum elong	-7885 Jul 06 j 04:22	14°♉10'03	15°08'48	
	-7885 Jul 28 j 13:01	15°♉		
retrograde	-7885 Oct 16 j 14:28	16°♉39'17		
opposition	-7884 Jan 01 j 16:14	15°♉18'58	16°16'15	
min. Earth dist.	-7884 Jan 04 j 10:00	15°♉14'31	30.29087 AU	
	-7884 Jan 13 j 10:14	15°℞♉		
direct	-7884 Mar 22 j 11:37	13°♉55'10		
	-7884 May 26 j 16:03	15°♉		
max. Earth dist.	-7884 Jul 04 j 22:46	16°♉23'43	32.12640 AU	
conjunction	-7884 Jul 07 j 18:44	16°♉30'12	15°24'29	
minimum elong	-7884 Jul 07 j 18:22	16°♉30'10	15°24'50	
retrograde	-7884 Oct 18 j 07:12	19°♉00'43		
opposition	-7883 Jan 03 j 07:52	17°♉40'01	16°32'58	
min. Earth dist.	-7883 Jan 05 j 22:41	17°♉35'44	30.11821 AU	
direct	-7883 Mar 25 j 01:01	16°♉15'51		
max. Earth dist.	-7883 Jul 07 j 16:10	18°♉45'53	31.95541 AU	
conjunction	-7883 Jul 10 j 09:31	18°♉52'10	15°39'11	
minimum elong	-7883 Jul 10 j 09:09	18°♉52'08	15°39'32	
retrograde	-7883 Oct 20 j 22:59	21°♉23'59		
opposition	-7882 Jan 06 j 00:42	20°♉02'55	16°48'13	
min. Earth dist.	-7882 Jan 08 j 14:09	19°♉58'43	29.95415 AU	
direct	-7882 Mar 27 j 15:13	18°♉38'27		
max. Earth dist.	-7882 Jul 10 j 10:23	21°♉09'55	31.79369 AU	
conjunction	-7882 Jul 13 j 00:44	21°♉15'59	15°52'28	
minimum elong	-7882 Jul 13 j 00:24	21°♉15'57	15°52'50	
retrograde	-7882 Oct 23 j 17:19	23°♉49'02		
opposition	-7881 Jan 08 j 18:14	22°♉27'39	17°01'56	
min. Earth dist.	-7881 Jan 11 j 04:10	22°♉23'41	29.79927 AU	
direct	-7881 Mar 30 j 08:24	21°♉02'55		
max. Earth dist.	-7881 Jul 13 j 04:41	23°♉35'46	31.64142 AU	
conjunction	-7881 Jul 15 j 16:44	23°♉41'38	16°04'16	
minimum elong	-7881 Jul 15 j 16:25	23°♉41'36	16°04'39	
retrograde	-7881 Oct 26 j 11:43	26°♉15'55		
opposition	-7880 Jan 11 j 12:31	24°♉54'14	17°14'01	
min. Earth dist.	-7880 Jan 13 j 20:55	24°♉50'21	29.65379 AU	
direct	-7880 Mar 31 j 23:42	23°♉29'17		
max. Earth dist.	-7880 Jul 15 j 00:50	26°♉03'32	31.49881 AU	
conjunction	-7880 Jul 17 j 09:19	26°♉09'06	16°14'31	
minimum elong	-7880 Jul 17 j 09:03	26°♉09'05	16°14'56	
retrograde	-7880 Oct 28 j 07:05	28°♉44'33		
opposition	-7879 Jan 13 j 07:37	27°♉22'37	17°24'24	
min. Earth dist.	-7879 Jan 15 j 12:39	27°♉18'57	29.51743 AU	
direct	-7879 Apr 03 j 18:15	25°♉57'28		
max. Earth dist.	-7879 Jul 17 j 19:49	28°♉32'55	31.36545 AU	
conjunction	-7879 Jul 20 j 02:26	28°♉38'20	16°23'09	
minimum elong	-7879 Jul 20 j 02:10	28°♉38'18	16°23'35	
	-7879 Aug 25 j 02:27	0°♊		
retrograde	-7879 Oct 31 j 04:31	1°♊14'53		
	-7878 Jan 11 j 18:04	30°℞♉		
opposition	-7878 Jan 16 j 03:34	29°♉52'42	17°33'02	
min. Earth dist.	-7878 Jan 18 j 06:35	29°♉49'10	29.39013 AU	
direct	-7878 Apr 06 j 12:24	28°♉27'23		
	-7878 Jun 22 j 22:18	0°♊		
max. Earth dist.	-7878 Jul 20 j 17:34	1°♊04'09	31.24131 AU	
conjunction	-7878 Jul 22 j 20:14	1°♊09'12	16°30'08	
minimum elong	-7878 Jul 22 j 20:03	1°♊09'11	16°30'34	
retrograde	-7878 Nov 02 j 23:45	3°♊46'46		
opposition	-7877 Jan 19 j 00:17	2°♊24'21	17°39'50	
min. Earth dist.	-7877 Jan 21 j 00:23	2°♊21'01	29.27156 AU	
direct	-7877 Apr 09 j 08:36	0°♊58'54		
max. Earth dist.	-7877 Jul 23 j 13:29	3°♊36'38	31.12622 AU	
conjunction	-7877 Jul 25 j 14:19	3°♊41'32	16°35'23	
minimum elong	-7877 Jul 25 j 14:08	3°♊41'31	16°35'50	
retrograde	-7877 Nov 05 j 21:19	6°♊20'02		
opposition	-7876 Jan 21 j 21:35	4°♊57'24	17°44'47	
min. Earth dist.	-7876 Jan 23 j 19:02	4°♊54'14	29.16180 AU	
direct	-7876 Apr 11 j 03:37	3°♊31'48		
max. Earth dist.	-7876 Jul 25 j 12:16	6°♊10'39	31.02011 AU	
conjunction	-7876 Jul 27 j 09:08	6°♊15'10	16°38'53	
minimum elong	-7876 Jul 27 j 09:01	6°♊15'09	16°39'20	
retrograde	-7876 Nov 07 j 17:31	8°♊54'29		
opposition	-7875 Jan 23 j 19:25	7°♊31'38	17°47'49	
min. Earth dist.	-7875 Jan 25 j 14:28	7°♊28'38	29.06068 AU	
direct	-7875 Apr 14 j 00:50	6°♊05'54		
max. Earth dist.	-7875 Jul 28 j 09:19	8°♊45'32	30.92328 AU	
conjunction	-7875 Jul 30 j 04:08	8°♊49'52	16°40'34	
minimum elong	-7875 Jul 30 j 04:01	8°♊49'52	16°41'02	
retrograde	-7875 Nov 10 j 15:28	11°♊29'56		
opposition	-7874 Jan 26 j 17:49	10°♊06'51	17°48'52	
min. Earth dist.	-7874 Jan 28 j 09:19	10°♊04'06	28.96873 AU	
direct	-7874 Apr 16 j 21:45	8°♊41'00		
max. Earth dist.	-7874 Jul 31 j 08:39	11°♊21'30	30.83600 AU	
conjunction	-7874 Aug 01 j 23:27	11°♊25'27	16°40'25	
minimum elong	-7874 Aug 01 j 23:25	11°♊25'27	16°40'53	
retrograde	-7874 Nov 13 j 10:37	14°♊06'07		
opposition	-7873 Jan 29 j 16:46	12°♊42'50	17°47'54	
min. Earth dist.	-7873 Jan 31 j 05:57	12°♊40'14	28.88623 AU	
direct	-7873 Apr 19 j 19:13	11°♊16'53		
max. Earth dist.	-7873 Aug 03 j 06:53	13°♊58'00	30.75897 AU	
conjunction	-7873 Aug 04 j 18:53	14°♊01'41	16°38'21	
minimum elong	-7873 Aug 04 j 18:52	14°♊01'41	16°38'51	
retrograde	-7873 Nov 16 j 08:55	16°♊42'50		
opposition	-7872 Feb 01 j 15:42	15°♊19'22	17°44'52	
min. Earth dist.	-7872 Feb 03 j 00:41	15°♊17'04	28.81397 AU	
direct	-7872 Apr 21 j 16:57	13°♊53'19		

Attention, astronomical year style is used: The year -7872 in astronomical counting style is the year 7873 BCE in historical counting style.

max. Earth dist.	-7872 Aug 05 j 06:31	16°♊35'05	30.69270 AU
conjunction	-7872 Aug 06 j 14:33	16°♊38'21	16°34'22
minimum elong	-7872 Aug 06 j 14:36	16°♊38'22	16°34'52
retrograde	-7872 Nov 18 j 04:45	19°♊19'56	
opposition	-7871 Feb 03 j 15:12	17°♊56'17	17°39'44
min. Earth dist.	-7871 Feb 04 j 21:45	17°♊54'09	28.75254 AU
direct	-7871 Apr 24 j 13:55	16°♊30'11	
max. Earth dist.	-7871 Aug 08 j 05:52	19°♊12'26	30.63811 AU
conjunction	-7871 Aug 09 j 10:06	19°♊15'20	16°28'24
minimum elong	-7871 Aug 09 j 10:09	19°♊15'20	16°28'55
retrograde	-7871 Nov 21 j 01:54	21°♊57'12	
opposition	-7870 Feb 06 j 14:48	20°♊33'26	17°32'28
min. Earth dist.	-7870 Feb 07 j 16:32	20°♊31'38	28.70272 AU
direct	-7870 Apr 27 j 13:50	19°♊07'19	
max. Earth dist.	-7870 Aug 11 j 05:22	21°♊49'59	30.59568 AU
conjunction	-7870 Aug 12 j 05:48	21°♊52'29	16°20'29
minimum elong	-7870 Aug 12 j 05:56	21°♊52'30	16°20'59
retrograde	-7870 Nov 23 j 22:58	24°♊34'35	
opposition	-7869 Feb 09 j 14:39	23°♊10'43	17°23'03
min. Earth dist.	-7869 Feb 10 j 13:26	23°♊09'07	28.66510 AU
direct	-7869 Apr 30 j 10:40	21°♊44'39	
max. Earth dist.	-7869 Aug 14 j 05:23	24°♊27'39	30.56601 AU
conjunction	-7869 Aug 15 j 01:26	24°♊29'43	16°10'35
minimum elong	-7869 Aug 15 j 01:35	24°♊29'44	16°11'06
retrograde	-7869 Nov 26 j 20:30	27°♊11'55	
opposition	-7868 Feb 12 j 14:26	25°♊48'02	17°11'31
min. Earth dist.	-7868 Feb 13 j 08:27	25°♊46'46	28.63970 AU
direct	-7868 May 02 j 10:20	24°♊22'03	
conjunction	-7868 Aug 16 j 21:00	27°♊06'56	15°58'44
minimum elong	-7868 Aug 16 j 21:12	27°♊06'58	15°59'15
max. Earth dist.	-7868 Aug 16 j 04:14	27°♊05'13	30.54878 AU
retrograde	-7868 Nov 28 j 18:31	29°♊49'11	
opposition	-7867 Feb 14 j 14:14	28°♊25'17	16°57'53
min. Earth dist.	-7867 Feb 15 j 05:02	28°♊24'15	28.62648 AU
direct	-7867 May 05 j 08:20	26°♊59'28	
conjunction	-7867 Aug 19 j 16:34	29°♊44'04	15°44'59
minimum elong	-7867 Aug 19 j 16:48	29°♊44'06	15°45'31
max. Earth dist.	-7867 Aug 19 j 04:34	29°♊42'50	30.54390 AU
	-7867 Aug 26 j 04:07	0°♋	
retrograde	-7867 Dec 01 j 15:43	2°♋26'14	
opposition	-7866 Feb 17 j 14:09	1°♋02'24	16°42'13
min. Earth dist.	-7866 Feb 18 j 00:51	1°♋01'39	28.62495 AU
	-7866 Mar 31 j 05:28	30°℞♊	
direct	-7866 May 08 j 08:26	29°♊36'46	
	-7866 Jun 14 j 03:55	0°♋	
conjunction	-7866 Aug 22 j 11:45	2°♋20'57	15°29'23
minimum elong	-7866 Aug 22 j 12:02	2°♋20'59	15°29'54
max. Earth dist.	-7866 Aug 22 j 02:42	2°♋20'02	30.55075 AU
retrograde	-7866 Dec 04 j 13:54	5°♋02'58	
opposition	-7865 Feb 20 j 13:56	3°♋39'12	16°24'35
min. Earth dist.	-7865 Feb 20 j 21:00	3°♋38'42	28.63479 AU
direct	-7865 May 11 j 05:56	2°♋13'46	
conjunction	-7865 Aug 25 j 07:01	4°♋57'28	15°11'59
minimum elong	-7865 Aug 25 j 07:19	4°♋57'30	15°12'31
max. Earth dist.	-7865 Aug 25 j 02:41	4°♋57'01	30.56887 AU
retrograde	-7865 Dec 07 j 10:47	7°♋39'12	
opposition	-7864 Feb 23 j 13:23	6°♋15'31	16°05'03
min. Earth dist.	-7864 Feb 23 j 17:13	6°♋15'15	28.65528 AU
direct	-7864 May 13 j 06:20	4°♋50'19	

evening set	-7864 Aug 25 j 05:27	7°♋28'53	
conjunction	-7864 Aug 27 j 01:53	7°♋33'24	14°52'53
minimum elong	-7864 Aug 27 j 02:14	7°♋33'26	14°53'24
max. Earth dist.	-7864 Aug 26 j 24:00	7°♋33'13	30.59773 AU
morning rise	-7864 Aug 28 j 23:00	7°♋38'00	
retrograde	-7864 Dec 09 j 08:38	10°♋14'46	
opposition	-7863 Feb 25 j 12:41	8°♋51'11	15°43'42
min. Earth dist.	-7863 Feb 25 j 12:24	8°♋51'12	28.68618 AU
direct	-7863 May 16 j 04:52	7°♋26'13	
evening set	-7863 Aug 26 j 02:16	9°♋59'26	
conjunction	-7863 Aug 29 j 20:28	10°♋08'36	14°32'08
minimum elong	-7863 Aug 29 j 20:49	10°♋08'38	14°32'40
max. Earth dist.	-7863 Aug 29 j 23:03	10°♋08'51	30.63692 AU
morning rise	-7863 Sep 02 j 15:18	10°♋17'49	
retrograde	-7863 Dec 12 j 03:19	12°♋49'28	
opposition	-7862 Feb 28 j 11:49	11°♋26'00	15°20'37
min. Earth dist.	-7862 Feb 28 j 08:49	11°♋26'13	28.72703 AU
direct	-7862 May 19 j 03:46	10°♋01'18	
evening set	-7862 Aug 27 j 13:56	12°♋30'36	
conjunction	-7862 Sep 01 j 14:37	12°♋42'50	14°09'49
minimum elong	-7862 Sep 01 j 15:00	12°♋42'52	14°10'20
max. Earth dist.	-7862 Sep 01 j 19:45	12°♋43'21	30.68632 AU
morning rise	-7862 Sep 06 j 16:01	12°♋55'06	
retrograde	-7862 Dec 15 j 00:01	15°♋23'07	
opposition	-7861 Mar 03 j 10:17	13°♋59'46	14°55'52
min. Earth dist.	-7861 Mar 03 j 02:54	14°♋00'16	28.77792 AU
direct	-7861 May 22 j 02:19	12°♋35'18	
evening set	-7861 Aug 29 j 06:30	15°♋01'14	
conjunction	-7861 Sep 04 j 08:19	15°♋15'55	13°46'00
minimum elong	-7861 Sep 04 j 08:43	15°♋15'57	13°46'33
max. Earth dist.	-7861 Sep 04 j 17:38	15°♋16'51	30.74574 AU
morning rise	-7861 Sep 10 j 10:47	15°♋30'39	
retrograde	-7861 Dec 17 j 17:53	17°♋55'31	
opposition	-7860 Mar 05 j 08:25	16°♋32'17	14°29'34
min. Earth dist.	-7860 Mar 04 j 22:39	16°♋32'58	28.83877 AU
direct	-7860 May 23 j 23:50	15°♋08'05	
evening set	-7860 Aug 30 j 01:49	17°♋30'52	
conjunction	-7860 Sep 06 j 01:21	17°♋47'40	13°20'47
minimum elong	-7860 Sep 06 j 01:45	17°♋47'42	13°21'18
max. Earth dist.	-7860 Sep 06 j 13:45	17°♋48'55	30.81549 AU
morning rise	-7860 Sep 13 j 01:34	18°♋04'31	
retrograde	-7860 Dec 19 j 11:10	20°♋26'30	
opposition	-7859 Mar 08 j 05:48	19°♋03'25	14°01'46
min. Earth dist.	-7859 Mar 07 j 15:22	19°♋04'24	28.90994 AU
direct	-7859 May 26 j 21:51	17°♋39'28	
evening set	-7859 Aug 31 j 22:40	19°♋59'19	
conjunction	-7859 Sep 08 j 17:51	20°♋17'57	12°54'14
minimum elong	-7859 Sep 08 j 18:16	20°♋18'00	12°54'45
max. Earth dist.	-7859 Sep 09 j 10:05	20°♋19'35	30.89576 AU
morning rise	-7859 Sep 16 j 13:45	20°♋36'40	
retrograde	-7859 Dec 22 j 03:30	22°♋55'58	
min. Earth dist.	-7858 Mar 10 j 09:41	21°♋34'11	28.99196 AU
opposition	-7858 Mar 11 j 02:51	21°♋33'01	13°32'35
direct	-7858 May 29 j 17:15	20°♋09'22	
evening set	-7858 Sep 02 j 20:42	22°♋26'24	
conjunction	-7858 Sep 11 j 09:40	22°♋46'41	12°26'26
minimum elong	-7858 Sep 11 j 10:05	22°♋46'44	12°26'55
max. Earth dist.	-7858 Sep 12 j 05:40	22°♋48'41	30.98718 AU
morning rise	-7858 Sep 19 j 23:20	23°♋07'03	
retrograde	-7858 Dec 24 j 19:55	25°♋23'48	

Attention, astronomical year style is used: The year -7857 in astronomical counting style is the year 7858 BCE in historical counting style.

opposition	-7857 Mar 13 j 23:05	24°♋01'02	13°02'06
min. Earth dist.	-7857 Mar 13 j 01:20	24°♋02'31	29.08504 AU
direct	-7857 Jun 01 j 13:31	22°♋37'42	
evening set	-7857 Sep 04 j 19:34	24°♋52'04	
conjunction	-7857 Sep 14 j 00:56	25°♋13'50	11°57'28
minimum elong	-7857 Sep 14 j 01:21	25°♋13'52	11°57'58
max. Earth dist.	-7857 Sep 15 j 00:09	25°♋16'07	31.08967 AU
morning rise	-7857 Sep 23 j 07:11	25°♋35'41	
retrograde	-7857 Dec 27 j 11:27	27°♋50'00	
opposition	-7856 Mar 15 j 18:35	26°♋27'27	12°30'25
min. Earth dist.	-7856 Mar 14 j 17:49	26°♋29'08	29.18937 AU
direct	-7856 Jun 03 j 07:56	25°♋04'28	
evening set	-7856 Sep 05 j 19:07	27°♋16'16	
conjunction	-7856 Sep 15 j 15:40	27°♋39'22	11°27'27
minimum elong	-7856 Sep 15 j 16:05	27°♋39'24	11°27'56
max. Earth dist.	-7856 Sep 16 j 19:05	27°♋42'03	31.20336 AU
morning rise	-7856 Sep 25 j 12:57	28°♋02'33	
	-7856 Nov 29 j 17:55	0°♌	
retrograde	-7856 Dec 29 j 02:18	0°♌14'33	
	-7855 Jan 28 j 10:27	30°℞♋	
min. Earth dist.	-7855 Mar 17 j 08:53	28°♋54'11	29.30452 AU
opposition	-7855 Mar 18 j 13:29	28°♋52'15	11°57'40
direct	-7855 Jun 06 j 02:54	27°♋29'39	
evening set	-7855 Sep 07 j 19:01	29°♋38'58	
	-7855 Sep 16 j 19:54	0°♌	
conjunction	-7855 Sep 18 j 05:29	0°♌03'16	10°56'28
minimum elong	-7855 Sep 18 j 05:53	0°♌03'19	10°56'58
max. Earth dist.	-7855 Sep 19 j 11:32	0°♌06'12	31.32760 AU
morning rise	-7855 Sep 28 j 16:59	0°♌27'40	
retrograde	-7855 Dec 31 j 18:09	2°♌37'27	
min. Earth dist.	-7854 Mar 19 j 23:40	1°♌17'34	29.43018 AU
opposition	-7854 Mar 21 j 07:48	1°♌15'25	11°23'56
	-7854 May 19 j 09:38	30°℞♋	
direct	-7854 Jun 08 j 19:09	29°♋53'13	
	-7854 Jun 29 j 00:01	0°♌	
evening set	-7854 Sep 09 j 19:23	2°♌00'11	
conjunction	-7854 Sep 20 j 18:57	2°♌25'33	10°24'39
minimum elong	-7854 Sep 20 j 19:21	2°♌25'35	10°25'07
max. Earth dist.	-7854 Sep 22 j 05:14	2°♌28'52	31.46186 AU
morning rise	-7854 Oct 01 j 19:22	2°♌51'01	
retrograde	-7853 Jan 03 j 08:04	4°♌58'40	
min. Earth dist.	-7853 Mar 22 j 14:23	3°♌39'16	29.56541 AU
opposition	-7853 Mar 24 j 01:15	3°♌36'56	10°49'23
direct	-7853 Jun 11 j 13:51	2°♌15'09	
evening set	-7853 Sep 11 j 20:11	4°♌19'50	
conjunction	-7853 Sep 23 j 07:36	4°♌46'09	9°52'05
minimum elong	-7853 Sep 23 j 07:59	4°♌46'12	9°52'34
max. Earth dist.	-7853 Sep 24 j 19:48	4°♌49'38	31.60525 AU
morning rise	-7853 Oct 04 j 20:13	5°♌12'35	
retrograde	-7852 Jan 05 j 23:43	7°♌18'12	
min. Earth dist.	-7852 Mar 24 j 03:29	5°♌59'18	29.70956 AU
opposition	-7852 Mar 25 j 18:00	5°♌56'45	10°14'05
direct	-7852 Jun 13 j 06:25	4°♌35'23	
evening set	-7852 Sep 12 j 21:06	6°♌37'53	
conjunction	-7852 Sep 24 j 19:42	7°♌05'03	9°18'54
minimum elong	-7852 Sep 24 j 20:05	7°♌05'05	9°19'20
max. Earth dist.	-7852 Sep 26 j 11:42	7°♌08'52	31.75687 AU
morning rise	-7852 Oct 06 j 19:22	7°♌32'20	
retrograde	-7851 Jan 07 j 11:20	9°♌35'58	
min. Earth dist.	-7851 Mar 26 j 17:47	8°♌17'30	29.86164 AU
opposition	-7851 Mar 28 j 10:06	8°♌14'50	9°38'12
direct	-7851 Jun 15 j 22:37	6°♌53'54	
evening set	-7851 Sep 14 j 22:28	8°♌54'17	
conjunction	-7851 Sep 27 j 07:09	9°♌22'11	8°45'10
minimum elong	-7851 Sep 27 j 07:30	9°♌22'13	8°45'38
max. Earth dist.	-7851 Sep 29 j 00:56	9°♌26'08	31.91609 AU
morning rise	-7851 Oct 09 j 17:08	9°♌50'12	
retrograde	-7850 Jan 10 j 00:25	11°♌51'57	
min. Earth dist.	-7850 Mar 29 j 05:23	10°♌34'00	30.02115 AU
opposition	-7850 Mar 31 j 01:22	10°♌31'07	9°01'48
direct	-7850 Jun 18 j 14:55	9°♌10'35	
evening set	-7850 Sep 16 j 23:48	11°♌08'56	
conjunction	-7850 Sep 29 j 17:55	11°♌37'29	8°11'01
minimum elong	-7850 Sep 29 j 18:15	11°♌37'31	8°11'27
max. Earth dist.	-7850 Oct 01 j 14:47	11°♌41'42	32.08210 AU
morning rise	-7850 Oct 12 j 13:22	12°♌06'09	
retrograde	-7849 Jan 12 j 11:16	14°♌06'04	
min. Earth dist.	-7849 Mar 31 j 18:31	12°♌48'30	30.18741 AU
opposition	-7849 Apr 02 j 15:57	12°♌45'32	8°25'00
direct	-7849 Jun 21 j 05:58	11°♌25'24	
evening set	-7849 Sep 19 j 01:23	13°♌21'48	
conjunction	-7849 Oct 02 j 04:03	13°♌50'53	7°36'31
minimum elong	-7849 Oct 02 j 04:22	13°♌50'55	7°36'57
max. Earth dist.	-7849 Oct 04 j 02:53	13°♌55'15	32.25459 AU
morning rise	-7849 Oct 15 j 08:06	14°♌20'07	
	-7849 Nov 03 j 09:36	15°♌	
retrograde	-7848 Jan 14 j 20:57	16°♌18'15	
min. Earth dist.	-7848 Apr 02 j 04:40	15°♌01'11	30.36005 AU
	-7848 Apr 02 j 22:47	15°℞♌	
opposition	-7848 Apr 04 j 05:22	14°♌58'01	7°47'54
direct	-7848 Jun 22 j 20:45	13°♌38'16	
	-7848 Sep 04 j 11:06	15°♌	
evening set	-7848 Sep 20 j 02:55	15°♌32'47	
conjunction	-7848 Oct 03 j 13:18	16°♌02'20	7°01'45
minimum elong	-7848 Oct 03 j 13:36	16°♌02'22	7°02'09
max. Earth dist.	-7848 Oct 05 j 14:22	16°♌06'52	32.43321 AU
morning rise	-7848 Oct 17 j 01:21	16°♌32'02	
retrograde	-7847 Jan 16 j 05:13	18°♌28'29	
min. Earth dist.	-7847 Apr 04 j 15:52	17°♌11'47	30.53926 AU
opposition	-7847 Apr 06 j 18:17	17°♌08'31	7°10'35
direct	-7847 Jun 25 j 08:53	15°♌49'10	
evening set	-7847 Sep 22 j 04:14	17°♌41'51	
conjunction	-7847 Oct 05 j 21:48	18°♌11'48	6°26'48
minimum elong	-7847 Oct 05 j 22:04	18°♌11'49	6°27'12
max. Earth dist.	-7847 Oct 08 j 01:46	18°♌16'33	32.61831 AU
morning rise	-7847 Oct 19 j 16:53	18°♌41'53	
retrograde	-7846 Jan 18 j 12:32	20°♌36'43	
min. Earth dist.	-7846 Apr 07 j 01:06	19°♌20'27	30.72510 AU
opposition	-7846 Apr 09 j 06:13	19°♌17'02	6°33'06
direct	-7846 Jun 27 j 21:21	17°♌58'03	
evening set	-7846 Sep 24 j 05:45	19°♌49'01	
conjunction	-7846 Oct 08 j 05:30	20°♌19'17	5°51'43
minimum elong	-7846 Oct 08 j 05:45	20°♌19'18	5°52'06
max. Earth dist.	-7846 Oct 10 j 11:11	20°♌24'09	32.80997 AU
morning rise	-7846 Oct 22 j 07:11	20°♌49'41	
retrograde	-7845 Jan 20 j 21:08	22°♌42'58	
min. Earth dist.	-7845 Apr 09 j 09:33	21°♌27'09	30.91809 AU
opposition	-7845 Apr 11 j 17:14	21°♌23'35	5°55'34
direct	-7845 Jun 30 j 06:54	20°♌05'00	
evening set	-7845 Sep 26 j 07:04	21°♌54'20	
conjunction	-7845 Oct 10 j 12:38	22°♌24'50	5°16'36

Attention, astronomical year style is used: The year -7845 in astronomical counting style is the year 7846 BCE in historical counting style.

minimum elong	-7845 Oct 10 j 12:52	22°♌24'51	5°16'58	
max. Earth dist.	-7845 Oct 12 j 21:41	22°♌29'58	33.00858 AU	
morning rise	-7845 Oct 24 j 19:56	22°♌55'29		
retrograde	-7844 Jan 23 j 03:49	24°♌47'18		
min. Earth dist.	-7844 Apr 10 j 17:49	23°♌31'55	31.11808 AU	
opposition	-7844 Apr 13 j 03:28	23°♌28'15	5°18'03	
direct	-7844 Jul 01 j 18:11	22°♌10'04		
evening set	-7844 Sep 27 j 08:24	23°♌57'52		
conjunction	-7844 Oct 11 j 18:48	24°♌28'32	4°41'29	
minimum elong	-7844 Oct 11 j 19:00	24°♌28'33	4°41'50	
max. Earth dist.	-7844 Oct 14 j 05:06	24°♌33'44	33.21403 AU	
morning rise	-7844 Oct 26 j 07:19	24°♌59'22		
retrograde	-7843 Jan 24 j 12:37	26°♌49'49		
min. Earth dist.	-7843 Apr 13 j 00:04	25°♌34'56	31.32515 AU	
opposition	-7843 Apr 15 j 12:55	25°♌31'05	4°40'36	
direct	-7843 Jul 04 j 02:39	24°♌13'20		
evening set	-7843 Sep 29 j 09:38	25°♌59'41		
conjunction	-7843 Oct 14 j 00:30	26°♌30'28	4°06'27	
minimum elong	-7843 Oct 14 j 00:41	26°♌30'29	4°06'49	
max. Earth dist.	-7843 Oct 16 j 14:04	26°♌35'55	33.42612 AU	
morning rise	-7843 Oct 28 j 17:24	27°♌01'26		
retrograde	-7842 Jan 26 j 17:54	28°♌50'35		
min. Earth dist.	-7842 Apr 15 j 07:41	27°♌36'06	31.53881 AU	
opposition	-7842 Apr 17 j 21:41	27°♌32'12	4°03'17	
direct	-7842 Jul 06 j 11:09	26°♌14'54		
evening set	-7842 Oct 01 j 10:50	27°♌59'52		
conjunction	-7842 Oct 16 j 05:27	28°♌30'43	3°31'34	
minimum elong	-7842 Oct 16 j 05:36	28°♌30'43	3°31'54	
max. Earth dist.	-7842 Oct 18 j 20:20	28°♌36'13	33.64433 AU	
morning rise	-7842 Oct 31 j 02:15	29°♌01'45		
	-7842 Dec 01 j 09:17	0°♍		
retrograde	-7841 Jan 29 j 00:01	0°♍49'39		
	-7841 Mar 31 j 21:55	30°℞♌		
min. Earth dist.	-7841 Apr 17 j 12:29	29°♌35'43	31.75838 AU	
opposition	-7841 Apr 20 j 05:33	29°♌31'39	3°26'12	
direct	-7841 Jul 08 j 20:34	28°♌14'47		
evening set	-7841 Oct 03 j 12:04	29°♌58'27		
	-7841 Oct 04 j 06:21	0°♍		
conjunction	-7841 Oct 18 j 09:48	0°♍29'19	2°56'54	
minimum elong	-7841 Oct 18 j 09:56	0°♍29'19	2°57'13	
max. Earth dist.	-7841 Oct 21 j 03:04	0°♍34'59	33.86770 AU	
morning rise	-7841 Nov 02 j 09:53	1°♍00'22		
retrograde	-7840 Jan 31 j 04:40	2°♍47'06		
min. Earth dist.	-7840 Apr 18 j 18:49	1°♍33'34	31.98308 AU	
opposition	-7840 Apr 21 j 12:42	1°♍29'28	2°49'23	
direct	-7840 Jul 10 j 04:28	0°♍13'03		
evening set	-7840 Oct 04 j 13:13	1°♍55'29		
conjunction	-7840 Oct 19 j 13:37	2°♍26'19	2°22'28	
minimum elong	-7840 Oct 19 j 13:43	2°♍26'19	2°22'45	
max. Earth dist.	-7840 Oct 22 j 08:28	2°♍32'05	34.09568 AU	
morning rise	-7840 Nov 03 j 16:16	2°♍57'19		
retrograde	-7839 Feb 01 j 07:32	4°♍42'58		
min. Earth dist.	-7839 Apr 20 j 23:00	3°♍29'55	32.21203 AU	
opposition	-7839 Apr 23 j 19:09	3°♍25'42	2°12'54	
direct	-7839 Jul 12 j 12:14	2°♍09'43		
evening set	-7839 Oct 06 j 14:22	3°♍50'59		
conjunction	-7839 Oct 21 j 16:40	4°♍21'42	1°48'21	
minimum elong	-7839 Oct 21 j 16:44	4°♍21'43	1°48'38	
max. Earth dist.	-7839 Oct 24 j 12:39	4°♍27'31	34.32719 AU	
morning rise	-7839 Nov 05 j 21:35	4°♍52'39		
retrograde	-7838 Feb 03 j 09:58	6°♍37'15		

min. Earth dist.	-7838 Apr 23 j 03:52	5°♍24'36	32.44456 AU	
opposition	-7838 Apr 26 j 01:03	5°♍20'20	1°36'47	
direct	-7838 Jul 14 j 17:15	4°♍04'47		
evening set	-7838 Oct 08 j 15:27	5°♍44'55		
conjunction	-7838 Oct 23 j 19:27	6°♍15'31	1°14'34	
minimum elong	-7838 Oct 23 j 19:30	6°♍15'31	1°14'49	
max. Earth dist.	-7838 Oct 26 j 17:27	6°♍21'27	34.56167 AU	
morning rise	-7838 Nov 08 j 01:47	6°♍46'19		
retrograde	-7837 Feb 05 j 11:03	8°♍29'55		
min. Earth dist.	-7837 Apr 25 j 07:47	7°♍17'39	32.67973 AU	
opposition	-7837 Apr 28 j 05:57	7°♍13'21	1°01'05	
direct	-7837 Jul 16 j 22:38	5°♍58'11		
evening set	-7837 Oct 10 j 16:35	7°♍37'16		
conjunction	-7837 Oct 25 j 21:26	8°♍07'41	0°41'10	
minimum elong	-7837 Oct 25 j 21:28	8°♍07'41	0°41'26	
max. Earth dist.	-7837 Oct 28 j 19:36	8°♍13'35	34.79837 AU	
morning rise	-7837 Nov 10 j 05:02	8°♍38'19		
retrograde	-7836 Feb 07 j 14:13	10°♍20'58		
min. Earth dist.	-7836 Apr 26 j 10:24	9°♍09'06	32.91728 AU	
opposition	-7836 Apr 29 j 10:19	9°♍04'44	0°25'50	
direct	-7836 Jul 18 j 01:30	7°♍49'56		
evening set	-7836 Oct 11 j 17:17	9°♍27'59		
conjunction	-7836 Oct 26 j 22:47	9°♍58'12	0°08'13	
minimum elong	-7836 Oct 26 j 22:48	9°♍58'12	0°08'27	
behind sun begin	-7836 Oct 26 j 17:11	9°♍57'45		
behind sun end	-7836 Oct 27 j 04:25	9°♍58'39		
max. Earth dist.	-7836 Oct 29 j 23:08	10°♍04'14	35.03708 AU	
morning rise	-7836 Nov 11 j 06:51	10°♍28'38		
desc. node	-7835 Jan 26 j 20:34	12°♍08'00		
retrograde	-7835 Feb 08 j 15:12	12°♍10'22		
min. Earth dist.	-7835 Apr 28 j 13:52	10°♍58'47	33.15693 AU	
opposition	-7835 May 01 j 14:01	10°♍54'25	-0°08'56	
direct	-7835 Jul 20 j 06:04	9°♍39'59		
evening set	-7835 Oct 13 j 18:01	11°♍17'04		
conjunction	-7835 Oct 28 j 23:33	11°♍47'02	-0°24'23	
minimum elong	-7835 Oct 28 j 23:32	11°♍47'02	0°24'09	
max. Earth dist.	-7835 Nov 01 j 00:05	11°♍53'02	35.27791 AU	
morning rise	-7835 Nov 13 j 07:48	12°♍17'13		
retrograde	-7834 Feb 10 j 17:54	13°♍58'04		
min. Earth dist.	-7834 Apr 30 j 14:35	12°♍46'53	33.39906 AU	
opposition	-7834 May 03 j 16:51	12°♍42'25	-0°43'10	
direct	-7834 Jul 22 j 08:52	11°♍28'19		
evening set	-7834 Oct 15 j 18:31	13°♍04'30		
conjunction	-7834 Oct 30 j 23:40	13°♍34'11	-0°56'27	
minimum elong	-7834 Oct 30 j 23:38	13°♍34'11	0°56'15	
max. Earth dist.	-7834 Nov 03 j 02:09	13°♍40'17	35.52105 AU	
morning rise	-7834 Nov 15 j 07:36	14°♍04'05		
retrograde	-7833 Feb 12 j 17:46	15°♍44'08		
min. Earth dist.	-7833 May 02 j 16:42	14°♍33'13	33.64392 AU	
opposition	-7833 May 05 j 19:06	14°♍28'46	-1°16'52	
direct	-7833 Jul 24 j 11:17	13°♍15'00		
evening set	-7833 Oct 17 j 18:51	14°♍50'20		
conjunction	-7833 Nov 01 j 23:16	15°♍19'43	-1°28'01	
minimum elong	-7833 Nov 01 j 23:12	15°♍19'42	1°27'49	
max. Earth dist.	-7833 Nov 05 j 02:47	15°♍25'51	35.76698 AU	
morning rise	-7833 Nov 17 j 06:18	15°♍49'18		
retrograde	-7832 Feb 14 j 15:33	17°♍28'34		
min. Earth dist.	-7832 May 03 j 16:00	16°♍18'04	33.89175 AU	
opposition	-7832 May 06 j 20:26	16°♍13'31	-1°50'00	
direct	-7832 Jul 25 j 15:07	15°♍00'06		
evening set	-7832 Oct 18 j 19:09	16°♍34'39		

Attention, astronomical year style is used: The year -7832 in astronomical counting style is the year 7833 BCE in historical counting style.

conjunction	-7832 Nov 02 j 22:11	17°♑03'42	-1°59'03
minimum elong	-7832 Nov 02 j 22:06	17°♑03'41	1°58'53
max. Earth dist.	-7832 Nov 06 j 02:42	17°♑09'52	36.01578 AU
morning rise	-7832 Nov 18 j 04:08	17°♑32'58	
retrograde	-7831 Feb 15 j 13:43	19°♑11'32	
min. Earth dist.	-7831 May 05 j 16:05	18°♑01'22	34.14284 AU
opposition	-7831 May 08 j 21:24	17°♑56'47	-2°22'32
direct	-7831 Jul 27 j 16:21	16°♑43'44	
evening set	-7831 Oct 20 j 19:02	18°♑17'33	
conjunction	-7831 Nov 04 j 20:38	18°♑46'15	-2°29'34
minimum elong	-7831 Nov 04 j 20:33	18°♑46'14	2°29'23
max. Earth dist.	-7831 Nov 08 j 03:03	18°♑52'31	36.26763 AU
morning rise	-7831 Nov 20 j 00:51	19°♑15'09	
retrograde	-7830 Feb 17 j 10:28	20°♑53'05	
min. Earth dist.	-7830 May 07 j 15:24	19°♑43'17	34.39674 AU
opposition	-7830 May 10 j 21:39	19°♑38'40	-2°54'28
direct	-7830 Jul 29 j 17:49	18°♑26'00	
evening set	-7830 Oct 22 j 19:08	19°♑59'09	
conjunction	-7830 Nov 06 j 18:36	20°♑27'27	-2°59'30
minimum elong	-7830 Nov 06 j 18:29	20°♑27'27	2°59'22
max. Earth dist.	-7830 Nov 10 j 01:08	20°♑33'42	36.52197 AU
morning rise	-7830 Nov 21 j 20:59	20°♑55'59	
retrograde	-7829 Feb 19 j 09:31	22°♑33'20	
min. Earth dist.	-7829 May 09 j 13:29	21°♑23'56	34.65319 AU
opposition	-7829 May 12 j 21:12	21°♑19'15	-3°25'46
direct	-7829 Jul 31 j 15:54	20°♑06'58	
evening set	-7829 Oct 24 j 18:56	21°♑39'31	
conjunction	-7829 Nov 08 j 16:09	22°♑07'26	-3°28'53
minimum elong	-7829 Nov 08 j 16:01	22°♑07'25	3°28'44
max. Earth dist.	-7829 Nov 12 j 00:42	22°♑13'47	36.77831 AU
morning rise	-7829 Nov 23 j 16:02	22°♑35'33	
retrograde	-7828 Feb 21 j 07:20	24°♑12'22	
min. Earth dist.	-7828 May 10 j 12:45	23°♑03'18	34.91134 AU
opposition	-7828 May 13 j 20:20	22°♑58'39	-3°56'26
direct	-7828 Aug 01 j 14:28	21°♑46'45	
evening set	-7828 Oct 25 j 18:37	23°♑18'44	
conjunction	-7828 Nov 09 j 13:03	23°♑46'14	-3°57'41
minimum elong	-7828 Nov 09 j 12:54	23°♑46'13	3°57'34
max. Earth dist.	-7828 Nov 12 j 21:25	23°♑52'31	37.03596 AU
morning rise	-7828 Nov 24 j 10:15	24°♑13'56	
retrograde	-7827 Feb 22 j 06:40	25°♑50'16	
min. Earth dist.	-7827 May 12 j 09:42	24°♑41'36	35.17055 AU
opposition	-7827 May 15 j 18:56	24°♑36'53	-4°26'28
direct	-7827 Aug 03 j 11:29	23°♑25'22	
evening set	-7827 Oct 27 j 18:22	24°♑56'51	
conjunction	-7827 Nov 11 j 09:43	25°♑23'54	-4°25'54
minimum elong	-7827 Nov 11 j 09:34	25°♑23'54	4°25'47
max. Earth dist.	-7827 Nov 14 j 19:14	25°♑30'14	37.29404 AU
morning rise	-7827 Nov 26 j 03:52	25°♑51'11	
retrograde	-7826 Feb 24 j 02:57	27°♑27'03	
min. Earth dist.	-7826 May 14 j 08:30	26°♑18'40	35.43005 AU
opposition	-7826 May 17 j 17:02	26°♑14'01	-4°55'51
direct	-7826 Aug 05 j 10:05	25°♑02'52	
evening set	-7826 Oct 29 j 17:59	26°♑33'52	
conjunction	-7826 Nov 13 j 06:04	27°♑00'28	-4°53'31
minimum elong	-7826 Nov 13 j 05:54	27°♑00'28	4°53'26
max. Earth dist.	-7826 Nov 16 j 15:49	27°♑06'47	37.55196 AU
morning rise	-7826 Nov 27 j 20:43	27°♑27'18	
retrograde	-7825 Feb 25 j 22:01	29°♑02'44	
min. Earth dist.	-7825 May 16 j 05:09	27°♑54'42	35.68894 AU
opposition	-7825 May 19 j 14:30	27°♑50'01	-5°24'36
direct	-7825 Aug 07 j 10:02	26°♑39'13	
evening set	-7825 Oct 31 j 17:38	28°♑09'47	
conjunction	-7825 Nov 15 j 01:50	28°♑35'55	-5°20'34
minimum elong	-7825 Nov 15 j 01:40	28°♑35'55	5°20'29
max. Earth dist.	-7825 Nov 18 j 11:22	28°♑42'10	37.80882 AU
morning rise	-7825 Nov 29 j 12:53	29°♑02'16	
	-7824 Jan 04 j 18:06	0°♎	
retrograde	-7824 Feb 27 j 17:20	0°♎37'18	
	-7824 Apr 23 j 19:38	30°℞♑	
min. Earth dist.	-7824 May 17 j 02:16	29°♑29'34	35.94686 AU
opposition	-7824 May 20 j 11:35	29°♑24'54	-5°52'42
direct	-7824 Aug 08 j 07:30	28°♑14'26	
evening set	-7824 Nov 01 j 16:57	29°♑44'34	
	-7824 Nov 10 j 06:36	0°♎	
conjunction	-7824 Nov 15 j 21:21	0°♎10'13	-5°47'01
minimum elong	-7824 Nov 15 j 21:09	0°♎10'12	5°46'57
max. Earth dist.	-7824 Nov 19 j 07:48	0°♎16'29	38.06454 AU
morning rise	-7824 Nov 30 j 04:11	0°♎36'05	
retrograde	-7823 Feb 28 j 10:27	2°♎10'44	
min. Earth dist.	-7823 May 18 j 23:01	1°♎03'15	36.20349 AU
opposition	-7823 May 22 j 08:06	0°♎58'37	-6°20'09
	-7823 Jul 11 j 20:09	30°℞♑	
direct	-7823 Aug 10 j 05:42	29°♑48'28	
	-7823 Sep 07 j 20:55	0°♎	
evening set	-7823 Nov 03 j 16:11	1°♎18'11	
conjunction	-7823 Nov 17 j 16:10	1°♎43'20	-6°12'52
minimum elong	-7823 Nov 17 j 15:59	1°♎43'19	6°12'49
max. Earth dist.	-7823 Nov 21 j 01:48	1°♎49'30	38.31901 AU
morning rise	-7823 Dec 01 j 18:49	2°♎08'41	
retrograde	-7822 Mar 02 j 06:18	3°♎43'00	
min. Earth dist.	-7822 May 20 j 18:15	2°♎35'48	36.45920 AU
opposition	-7822 May 24 j 04:08	2°♎31'09	-6°46'58
direct	-7822 Aug 12 j 00:20	1°♎21'16	
evening set	-7822 Nov 05 j 15:15	2°♎50'37	
conjunction	-7822 Nov 19 j 10:45	3°♎15'16	-6°38'07
minimum elong	-7822 Nov 19 j 10:32	3°♎15'15	6°38'06
max. Earth dist.	-7822 Nov 22 j 21:42	3°♎21'28	38.57251 AU
morning rise	-7822 Dec 03 j 08:43	3°♎40'06	
retrograde	-7821 Mar 04 j 01:03	5°♎14'04	
min. Earth dist.	-7821 May 22 j 14:28	4°♎07'03	36.71422 AU
opposition	-7821 May 25 j 23:30	4°♎02'29	-7°13'07
direct	-7821 Aug 13 j 18:56	2°♎52'52	
evening set	-7821 Nov 07 j 14:10	4°♎21'53	
conjunction	-7821 Nov 21 j 04:48	4°♎46'00	-7°02'46
minimum elong	-7821 Nov 21 j 04:35	4°♎45'59	7°02'45
max. Earth dist.	-7821 Nov 24 j 15:21	4°♎52'09	38.82564 AU
morning rise	-7821 Dec 04 j 21:48	5°♎10'18	
retrograde	-7820 Mar 04 j 19:59	6°♎43'58	
min. Earth dist.	-7820 May 23 j 08:00	5°♎37'17	36.96911 AU
opposition	-7820 May 26 j 18:24	5°♎32'39	-7°38'36
direct	-7820 Aug 14 j 13:06	4°♎23'19	
evening set	-7820 Nov 08 j 12:48	5°♎52'02	
conjunction	-7820 Nov 21 j 22:14	6°♎15'37	-7°26'48
minimum elong	-7820 Nov 21 j 22:00	6°♎15'36	7°26'48
max. Earth dist.	-7820 Nov 25 j 09:30	6°♎21'46	39.07865 AU
morning rise	-7820 Dec 05 j 10:09	6°♎39'23	
retrograde	-7819 Mar 06 j 13:04	8°♎12'47	
min. Earth dist.	-7819 May 25 j 03:08	7°♎06'18	37.22420 AU
opposition	-7819 May 28 j 13:03	7°♎01'43	-8°03'26
direct	-7819 Aug 16 j 09:01	5°♎52'40	
evening set	-7819 Nov 10 j 11:22	7°♎21'07	

Attention, astronomical year style is used: The year -7819 in astronomical counting style is the year 7820 BCE in historical counting style.

conjunction	-7819 Nov 23 j 15:35	7°♎44'10	-7°50'14
minimum elong	-7819 Nov 23 j 15:22	7°♎44'09	7°50'14
max. Earth dist.	-7819 Nov 27 j 03:30	7°♎50'19	39.33194 AU
morning rise	-7819 Dec 06 j 21:54	8°♎07'22	
retrograde	-7818 Mar 08 j 04:12	9°♎40'32	
min. Earth dist.	-7818 May 26 j 20:27	8°♎34'21	37.47938 AU
opposition	-7818 May 30 j 06:58	8°♎29'44	-8°27'36
direct	-7818 Aug 18 j 05:31	7°♎20'59	
evening set	-7818 Nov 12 j 09:58	8°♎49'13	
conjunction	-7818 Nov 25 j 08:24	9°♎11'43	-8°13'02
minimum elong	-7818 Nov 25 j 08:10	9°♎11'41	8°13'03
max. Earth dist.	-7818 Nov 28 j 19:55	9°♎17'48	39.58518 AU
morning rise	-7818 Dec 08 j 09:12	9°♎34'21	
retrograde	-7817 Mar 09 j 21:05	11°♎07'20	
min. Earth dist.	-7817 May 28 j 13:46	10°♎01'26	37.73458 AU
opposition	-7817 Jun 01 j 00:39	9°♎56'49	-8°51'06
direct	-7817 Aug 19 j 23:01	8°♎48'22	
evening set	-7817 Nov 14 j 08:13	10°♎16'24	
conjunction	-7817 Nov 27 j 00:56	10°♎38'20	-8°35'14
minimum elong	-7817 Nov 27 j 00:42	10°♎38'19	8°35'17
max. Earth dist.	-7817 Nov 30 j 13:40	10°♎44'28	39.83811 AU
morning rise	-7817 Dec 09 j 19:39	11°♎00'25	
retrograde	-7816 Mar 10 j 11:10	12°♎33'14	
min. Earth dist.	-7816 May 29 j 07:32	11°♎27'34	37.98910 AU
opposition	-7816 Jun 01 j 17:48	11°♎23'00	-9°13'58
direct	-7816 Aug 20 j 17:41	10°♎14'51	
evening set	-7816 Nov 15 j 06:35	11°♎42'43	
conjunction	-7816 Nov 27 j 17:06	12°♎04'05	-8°56'51
minimum elong	-7816 Nov 27 j 16:51	12°♎04'04	8°56'54
max. Earth dist.	-7816 Dec 01 j 04:48	12°♎10'07	40.09022 AU
morning rise	-7816 Dec 10 j 05:40	12°♎25'35	
retrograde	-7815 Mar 12 j 05:12	13°♎58'17	
min. Earth dist.	-7815 May 30 j 23:34	12°♎52'55	38.24261 AU
opposition	-7815 Jun 03 j 10:37	12°♎48'20	-9°36'12
direct	-7815 Aug 22 j 08:35	11°♎40'28	
evening set	-7815 Nov 17 j 04:48	13°♎08'13	
conjunction	-7815 Nov 29 j 09:01	13°♎29'00	-9°17'53
minimum elong	-7815 Nov 29 j 08:47	13°♎28'59	9°17'57
max. Earth dist.	-7815 Dec 02 j 21:29	13°♎35'02	40.34077 AU
morning rise	-7815 Dec 11 j 15:14	13°♎49'56	
retrograde	-7814 Mar 13 j 22:13	15°♎22'31	
min. Earth dist.	-7814 Jun 01 j 17:32	14°♎17'20	38.49423 AU
opposition	-7814 Jun 05 j 03:09	14°♎12'51	-9°57'49
direct	-7814 Aug 23 j 23:40	13°♎05'16	
evening set	-7814 Nov 19 j 03:08	14°♎32'55	
conjunction	-7814 Dec 01 j 00:49	14°♎53'07	-9°38'20
minimum elong	-7814 Dec 01 j 00:34	14°♎53'06	9°38'24
max. Earth dist.	-7814 Dec 04 j 12:35	14°♎59'04	40.58914 AU
morning rise	-7814 Dec 13 j 00:12	15°♎13'27	
retrograde	-7813 Mar 15 j 13:30	16°♎45'56	
min. Earth dist.	-7813 Jun 03 j 09:03	15°♎41'01	38.74325 AU
opposition	-7813 Jun 06 j 19:01	15°♎36'32	-10°18'49
direct	-7813 Aug 25 j 16:45	14°♎29'13	
evening set	-7813 Nov 21 j 01:25	15°♎56'48	
conjunction	-7813 Dec 02 j 16:12	16°♎16'24	-9°58'14
minimum elong	-7813 Dec 02 j 15:57	16°♎16'23	9°58'19
max. Earth dist.	-7813 Dec 06 j 03:10	16°♎22'16	40.83454 AU
morning rise	-7813 Dec 14 j 08:51	16°♎36'08	
retrograde	-7812 Mar 16 j 04:29	18°♎08'33	
min. Earth dist.	-7812 Jun 04 j 01:54	17°♎03'48	38.98927 AU
opposition	-7812 Jun 07 j 10:53	16°♎59'24	-10°39'14
direct	-7812 Aug 26 j 09:22	15°♎52'19	
evening set	-7812 Nov 21 j 23:22	17°♎19'50	
conjunction	-7812 Dec 03 j 07:16	17°♎38'50	-10°17'35
minimum elong	-7812 Dec 03 j 07:01	17°♎38'49	10°17'40
max. Earth dist.	-7812 Dec 06 j 18:29	17°♎44'41	41.07683 AU
morning rise	-7812 Dec 14 j 16:38	17°♎57'57	
retrograde	-7811 Mar 17 j 16:42	19°♎30'19	
min. Earth dist.	-7811 Jun 05 j 18:00	18°♎25'45	39.23191 AU
opposition	-7811 Jun 09 j 02:16	18°♎21'24	-10°59'04
direct	-7811 Aug 28 j 03:30	17°♎14'33	
evening set	-7811 Nov 23 j 21:31	18°♎42'01	
conjunction	-7811 Dec 04 j 22:00	19°♎00'24	-10°36'23
minimum elong	-7811 Dec 04 j 21:45	19°♎00'23	10°36'30
max. Earth dist.	-7811 Dec 08 j 07:46	19°♎06'06	41.31585 AU
morning rise	-7811 Dec 16 j 00:05	19°♎18'53	
retrograde	-7810 Mar 19 j 07:19	20°♎51'13	
min. Earth dist.	-7810 Jun 07 j 08:55	19°♎46'51	39.47159 AU
opposition	-7810 Jun 10 j 17:12	19°♎42'31	-11°18'19
direct	-7810 Aug 29 j 18:15	18°♎35'53	
evening set	-7810 Nov 25 j 19:25	20°♎03'19	
conjunction	-7810 Dec 06 j 12:30	20°♎21'04	-10°54'38
minimum elong	-7810 Dec 06 j 12:15	20°♎21'03	10°54'45
max. Earth dist.	-7810 Dec 09 j 22:52	20°♎26'47	41.55200 AU
morning rise	-7810 Dec 17 j 06:58	20°♎38'57	
retrograde	-7809 Mar 20 j 21:02	22°♎11'14	
min. Earth dist.	-7809 Jun 09 j 00:54	21°♎07'00	39.70858 AU
opposition	-7809 Jun 12 j 07:49	21°♎02'45	-11°37'00
direct	-7809 Aug 31 j 09:13	19°♎56'20	
evening set	-7809 Nov 27 j 17:14	21°♎23'44	
conjunction	-7809 Dec 08 j 02:29	21°♎40'53	-11°12'21
minimum elong	-7809 Dec 08 j 02:14	21°♎40'52	11°12'30
max. Earth dist.	-7809 Dec 11 j 11:51	21°♎46'29	41.78586 AU
morning rise	-7809 Dec 18 j 13:00	21°♎58'06	
retrograde	-7808 Mar 21 j 12:46	23°♎30'24	
min. Earth dist.	-7808 Jun 09 j 14:21	22°♎26'23	39.94356 AU
opposition	-7808 Jun 12 j 21:56	22°♎22'07	-11°55'05
direct	-7808 Aug 31 j 21:49	21°♎15'54	
evening set	-7808 Nov 28 j 14:58	22°♎43'21	
conjunction	-7808 Dec 08 j 16:11	22°♎59'51	-11°29'30
minimum elong	-7808 Dec 08 j 15:57	22°♎59'50	11°29'39
max. Earth dist.	-7808 Dec 12 j 01:40	23°♎05'26	42.01794 AU
morning rise	-7808 Dec 18 j 18:44	23°♎16'26	
retrograde	-7807 Mar 23 j 02:33	24°♎48'46	
min. Earth dist.	-7807 Jun 11 j 05:21	23°♎44'53	40.17711 AU
opposition	-7807 Jun 14 j 11:53	23°♎40'42	-12°12'35
direct	-7807 Sep 02 j 11:10	22°♎34'42	
evening set	-7807 Nov 30 j 12:38	24°♎02'12	
conjunction	-7807 Dec 10 j 05:44	24°♎18'03	-11°46'06
minimum elong	-7807 Dec 10 j 05:29	24°♎18'02	11°46'17
max. Earth dist.	-7807 Dec 13 j 15:27	24°♎23'38	42.24880 AU
morning rise	-7807 Dec 19 j 23:47	24°♎33'59	
retrograde	-7806 Mar 24 j 13:16	26°♎06'22	
min. Earth dist.	-7806 Jun 12 j 18:40	25°♎02'43	40.40926 AU
opposition	-7806 Jun 16 j 01:22	24°♎58'32	-12°29'30
direct	-7806 Sep 04 j 03:38	23°♎52'45	
evening set	-7806 Dec 02 j 10:27	25°♎20'22	
conjunction	-7806 Dec 11 j 18:54	25°♎35'34	-12°02'10
minimum elong	-7806 Dec 11 j 18:40	25°♎35'33	12°02'20
max. Earth dist.	-7806 Dec 15 j 03:31	25°♎41'02	42.47828 AU
morning rise	-7806 Dec 21 j 04:28	25°♎50'49	

Attention, astronomical year style is used: The year -7805 in astronomical counting style is the year 7806 BCE in historical counting style.

retrograde	-7805 Mar 26 j 01:14	27°♎23'18		
min. Earth dist.	-7805 Jun 14 j 07:56	26°♎19'53	40.64016 AU	
opposition	-7805 Jun 17 j 14:31	26°♎15'42	-12°45'51	
direct	-7805 Sep 05 j 17:51	25°♎10'10		
evening set	-7805 Dec 04 j 08:03	26°♎37'54		
conjunction	-7805 Dec 13 j 07:54	26°♎52'26	-12°17'41	
minimum elong	-7805 Dec 13 j 07:39	26°♎52'25	12°17'52	
max. Earth dist.	-7805 Dec 16 j 17:21	26°♎57'56	42.70641 AU	
morning rise	-7805 Dec 22 j 08:34	27°♎07'02		
retrograde	-7804 Mar 26 j 12:20	28°♎39'38		
min. Earth dist.	-7804 Jun 14 j 21:59	27°♎36'23	40.86937 AU	
opposition	-7804 Jun 18 j 03:29	27°♎32'16	-13°01'38	
direct	-7804 Sep 06 j 08:14	26°♎26'58		
evening set	-7804 Dec 05 j 05:45	27°♎54'52		
conjunction	-7804 Dec 13 j 20:27	28°♎08'43	-12°32'41	
minimum elong	-7804 Dec 13 j 20:14	28°♎08'42	12°32'52	
max. Earth dist.	-7804 Dec 17 j 04:43	28°♎14'07	42.93279 AU	
morning rise	-7804 Dec 22 j 11:57	28°♎22'38		
retrograde	-7803 Mar 28 j 02:31	29°♎55'24		
min. Earth dist.	-7803 Jun 16 j 10:09	28°♎52'24	41.09659 AU	
opposition	-7803 Jun 19 j 16:09	28°♎48'17	-13°16'52	
direct	-7803 Sep 07 j 19:28	27°♎43'13		
evening set	-7803 Dec 07 j 03:36	29°♎11'17		
conjunction	-7803 Dec 15 j 09:00	29°♎24'28	-12°47'10	
minimum elong	-7803 Dec 15 j 08:46	29°♎24'27	12°47'22	
max. Earth dist.	-7803 Dec 18 j 17:20	29°♎29'50	43.15674 AU	
morning rise	-7803 Dec 23 j 15:08	29°♎37'41		
	-7802 Jan 06 j 22:45	0°♏		
retrograde	-7802 Mar 29 j 17:05	1°♏10'38		
min. Earth dist.	-7802 Jun 18 j 00:15	0°♏07'45	41.32112 AU	
opposition	-7802 Jun 21 j 04:32	0°♏03'45	-13°31'34	
	-7802 Jun 24 j 03:45	30°℞♎		
direct	-7802 Sep 09 j 06:03	28°♎58'55		
	-7802 Nov 21 j 09:25	0°♏		
evening set	-7802 Dec 09 j 01:47	0°♏27'12		
conjunction	-7802 Dec 16 j 21:28	0°♏39'40	-13°01'10	
minimum elong	-7802 Dec 16 j 21:16	0°♏39'40	13°01'23	
max. Earth dist.	-7802 Dec 20 j 05:00	0°♏44'58	43.37777 AU	
morning rise	-7802 Dec 24 j 17:40	0°♏52'10		
retrograde	-7801 Mar 31 j 06:10	2°♏25'19		
min. Earth dist.	-7801 Jun 19 j 12:30	1°♏22'40	41.54220 AU	
opposition	-7801 Jun 22 j 16:35	1°♏18'41	-13°45'46	
direct	-7801 Sep 10 j 17:37	0°♏14'03		
evening set	-7801 Dec 10 j 23:58	1°♏42'35		
conjunction	-7801 Dec 18 j 09:29	1°♏54'20	-13°14'42	
minimum elong	-7801 Dec 18 j 09:15	1°♏54'19	13°14'55	
max. Earth dist.	-7801 Dec 21 j 15:37	1°♏59'30	43.59502 AU	
morning rise	-7801 Dec 25 j 19:32	2°♏06'06		
retrograde	-7800 Mar 31 j 17:10	3°♏39'28		
min. Earth dist.	-7800 Jun 20 j 01:39	2°♏36'57	41.75941 AU	
opposition	-7800 Jun 23 j 04:34	2°♏33'02	-13°59'29	
direct	-7800 Sep 11 j 06:32	1°♏28'37		
evening set	-7800 Dec 11 j 22:31	2°♏57'25		
conjunction	-7800 Dec 18 j 21:33	3°♏08'24	-13°27'46	
minimum elong	-7800 Dec 18 j 21:21	3°♏08'23	13°28'00	
max. Earth dist.	-7800 Dec 22 j 03:45	3°♏13'33	43.80828 AU	
morning rise	-7800 Dec 25 j 20:55	3°♏19'25		
retrograde	-7799 Apr 02 j 00:53	4°♏53'01		
min. Earth dist.	-7799 Jun 21 j 14:32	3°♏50'37	41.97234 AU	
opposition	-7799 Jun 24 j 16:10	3°♏46'47	-14°12'43	
direct	-7799 Sep 12 j 21:54	2°♏42'32		
evening set	-7799 Dec 13 j 21:25	4°♏11'37		
conjunction	-7799 Dec 20 j 09:14	4°♏21'49	-13°40'22	
minimum elong	-7799 Dec 20 j 09:01	4°♏21'48	13°40'36	
max. Earth dist.	-7799 Dec 23 j 13:21	4°♏26'49	44.01740 AU	
morning rise	-7799 Dec 26 j 21:23	4°♏32'04		
retrograde	-7798 Apr 03 j 12:17	6°♏05'56		
min. Earth dist.	-7798 Jun 23 j 02:02	5°♏03'41	42.18124 AU	
opposition	-7798 Jun 26 j 03:31	4°♏59'52	-14°25'28	
direct	-7798 Sep 14 j 09:39	3°♏55'46		
evening set	-7798 Dec 15 j 20:39	5°♏25'11		
conjunction	-7798 Dec 21 j 20:47	5°♏34'34	-13°52'31	
minimum elong	-7798 Dec 21 j 20:35	5°♏34'34	13°52'48	
max. Earth dist.	-7798 Dec 25 j 00:53	5°♏39'32	44.22256 AU	
morning rise	-7798 Dec 27 j 21:09	5°♏43'59		
retrograde	-7797 Apr 04 j 23:15	7°♏18'11		
min. Earth dist.	-7797 Jun 24 j 15:00	6°♏15'59	42.38641 AU	
opposition	-7797 Jun 27 j 14:30	6°♏12'16	-14°37'45	
direct	-7797 Sep 15 j 21:02	5°♏08'19		
evening set	-7797 Dec 17 j 20:28	6°♏38'06		
conjunction	-7797 Dec 23 j 08:02	6°♏46'38	-14°04'13	
minimum elong	-7797 Dec 23 j 07:50	6°♏46'38	14°04'29	
max. Earth dist.	-7797 Dec 26 j 11:09	6°♏51'31	44.42449 AU	
morning rise	-7797 Dec 28 j 19:40	6°♏55'11		
retrograde	-7796 Apr 05 j 10:56	8°♏29'44		
min. Earth dist.	-7796 Jun 25 j 01:27	7°♏27'42	42.58855 AU	
opposition	-7796 Jun 28 j 01:13	7°♏23'59	-14°49'33	
direct	-7796 Sep 16 j 07:14	6°♏20'11		
evening set	-7796 Dec 18 j 20:50	7°♏50'25		
conjunction	-7796 Dec 23 j 18:50	7°♏58'03	-14°15'28	
minimum elong	-7796 Dec 23 j 18:38	7°♏58'02	14°15'45	
max. Earth dist.	-7796 Dec 26 j 21:08	8°♏02'51	44.62361 AU	
morning rise	-7796 Dec 28 j 16:55	8°♏05'40		
retrograde	-7795 Apr 06 j 22:42	9°♏40'38		
min. Earth dist.	-7795 Jun 26 j 13:15	8°♏38'42	42.78821 AU	
opposition	-7795 Jun 29 j 11:52	8°♏35'03	-15°00'52	
direct	-7795 Sep 17 j 17:07	7°♏31'24		
evening set	-7795 Dec 20 j 22:37	9°♏02'11		
conjunction	-7795 Dec 25 j 05:45	9°♏08'50	-14°26'14	
minimum elong	-7795 Dec 25 j 05:34	9°♏08'49	14°26'30	
max. Earth dist.	-7795 Dec 28 j 08:16	9°♏13'38	44.82050 AU	
morning rise	-7795 Dec 29 j 12:49	9°♏15'28		
retrograde	-7794 Apr 08 j 06:40	10°♏50'57		
min. Earth dist.	-7794 Jun 28 j 00:02	9°♏49'09	42.98554 AU	
opposition	-7794 Jun 30 j 22:01	9°♏45'33	-15°11'41	
direct	-7794 Sep 19 j 05:49	8°♏42'03		
evening set	-7794 Dec 23 j 02:13	10°♏13'32		
conjunction	-7794 Dec 26 j 16:18	10°♏19'04	-14°36'33	
minimum elong	-7794 Dec 26 j 16:07	10°♏19'03	14°36'51	
morning rise	-7794 Dec 30 j 06:16	10°♏24'34		
max. Earth dist.	-7794 Dec 29 j 17:15	10°♏23'44	45.01524 AU	
retrograde	-7793 Apr 09 j 15:57	12°♏00'45		
min. Earth dist.	-7793 Jun 29 j 10:13	10°♏59'07	43.18082 AU	
opposition	-7793 Jul 02 j 08:08	10°♏55'31	-15°22'03	
direct	-7793 Sep 20 j 16:37	9°♏52'13		
evening set	-7793 Dec 25 j 09:04	11°♏24'38		
conjunction	-7793 Dec 28 j 02:36	11°♏28'49	-14°46'25	
minimum elong	-7793 Dec 28 j 02:26	11°♏28'48	14°46'42	
morning rise	-7793 Dec 30 j 19:57	11°♏32'59		
max. Earth dist.	-7793 Dec 31 j 04:01	11°♏33'30	45.20779 AU	
retrograde	-7792 Apr 10 j 01:23	13°♏10'05		

Attention, astronomical year style is used: The year -7792 in astronomical counting style is the year 7793 BCE in historical counting style.

min. Earth dist.	-7792 Jun 29 j 21:38	12°♏08'34	43.37369 AU	
opposition	-7792 Jul 02 j 18:04	12°♏05'04	-15°31'56	
direct	-7792 Sep 21 j 03:25	11°♏01'56		
evening set	-7792 Dec 27 j 01:23	12°♏35'54		
conjunction	-7792 Dec 28 j 12:51	12°♏38'09	-14°55'50	
minimum elong	-7792 Dec 28 j 12:40	12°♏38'09	14°56'09	
morning rise	-7792 Dec 29 j 24:00	12°♏40'24		
max. Earth dist.	-7792 Dec 31 j 12:58	12°♏42'45	45.39803 AU	
retrograde	-7791 Apr 11 j 13:26	14°♏19'02		
min. Earth dist.	-7791 Jul 01 j 07:04	13°♏17'43	43.56392 AU	
opposition	-7791 Jul 04 j 03:39	13°♏14'13	-15°41'22	
direct	-7791 Sep 22 j 11:05	12°♏11'16		
conjunction	-7791 Dec 29 j 22:56	13°♏47'09	-15°04'51	
minimum elong	-7791 Dec 29 j 22:47	13°♏47'08	15°05'10	
max. Earth dist.	-7790 Jan 01 j 22:14	13°♏51'39	45.58526 AU	
	-7790 Feb 21 j 14:01	15°♏		
retrograde	-7790 Apr 13 j 00:16	15°♏27'38		
	-7790 Jun 03 j 05:35	15°℞♏		
min. Earth dist.	-7790 Jul 02 j 18:26	14°♏26'25	43.75089 AU	
opposition	-7790 Jul 05 j 13:14	14°♏23'01	-15°50'23	
direct	-7790 Sep 23 j 19:42	13°♏20'16		
conjunction	-7790 Dec 31 j 09:03	14°♏55'48	-15°13'26	
minimum elong	-7790 Dec 31 j 08:54	14°♏55'47	15°13'47	
max. Earth dist.	-7789 Jan 03 j 07:57	15°♏00'16	45.76894 AU	
	-7789 Jan 03 j 03:42	15°♏		
retrograde	-7789 Apr 14 j 08:06	16°♏35'54		
min. Earth dist.	-7789 Jul 04 j 04:28	15°♏34'50	43.93378 AU	
opposition	-7789 Jul 06 j 22:23	15°♏31'30	-15°58'58	
	-7789 Aug 03 j 00:17	15°℞♏		
direct	-7789 Sep 25 j 07:07	14°♏28'55		
	-7789 Nov 16 j 06:50	15°♏		
conjunction	-7788 Jan 01 j 18:53	16°♏04'07	-15°21'39	
minimum elong	-7788 Jan 01 j 18:45	16°♏04'07	15°21'59	
max. Earth dist.	-7788 Jan 04 j 15:34	16°♏08'26	45.94835 AU	
retrograde	-7788 Apr 14 j 17:03	17°♏43'51		
min. Earth dist.	-7788 Jul 04 j 14:32	16°♏42'55	44.11225 AU	
opposition	-7788 Jul 07 j 07:36	16°♏39'38	-16°07'10	
direct	-7788 Sep 25 j 17:21	15°♏37'13		
conjunction	-7787 Jan 02 j 04:38	17°♏12'05	-15°29'29	
minimum elong	-7787 Jan 02 j 04:28	17°♏12'04	15°29'49	
max. Earth dist.	-7787 Jan 05 j 01:04	17°♏16'22	46.12306 AU	
retrograde	-7787 Apr 16 j 00:32	18°♏51'27		
min. Earth dist.	-7787 Jul 06 j 01:42	17°♏50'34	44.28570 AU	
opposition	-7787 Jul 08 j 16:40	17°♏47'23	-16°14'59	
direct	-7787 Sep 27 j 04:26	16°♏45'07		
conjunction	-7786 Jan 03 j 14:18	18°♏19'38	-15°36'57	
minimum elong	-7786 Jan 03 j 14:11	18°♏19'37	15°37'18	
max. Earth dist.	-7786 Jan 06 j 08:44	18°♏23'46	46.29291 AU	
retrograde	-7786 Apr 17 j 10:49	19°♏58'37		
min. Earth dist.	-7786 Jul 07 j 10:38	18°♏57'52	44.45429 AU	
opposition	-7786 Jul 10 j 01:18	18°♏54'43	-16°22'26	
direct	-7786 Sep 28 j 12:35	17°♏52'34		
conjunction	-7785 Jan 04 j 23:42	19°♏26'44	-15°44'03	
minimum elong	-7785 Jan 04 j 23:34	19°♏26'43	15°44'24	
max. Earth dist.	-7785 Jan 07 j 17:03	19°♏30'47	46.45798 AU	
retrograde	-7785 Apr 18 j 22:28	21°♏05'20		
min. Earth dist.	-7785 Jul 08 j 21:18	20°♏04'37	44.61840 AU	
opposition	-7785 Jul 11 j 09:57	20°♏01'34	-16°29'29	
direct	-7785 Sep 29 j 19:04	18°♏59'32		

conjunction	-7784 Jan 06 j 08:49	20°♏33'21	-15°50'47	
minimum elong	-7784 Jan 06 j 08:43	20°♏33'21	15°51'10	
max. Earth dist.	-7784 Jan 09 j 01:37	20°♏37'22	46.61897 AU	
retrograde	-7784 Apr 19 j 06:36	22°♏11'34		
min. Earth dist.	-7784 Jul 09 j 06:05	21°♏10'57	44.77852 AU	
opposition	-7784 Jul 11 j 18:14	21°♏07'56	-16°36'09	
direct	-7784 Sep 30 j 03:52	20°♏06'00		
conjunction	-7783 Jan 06 j 17:45	21°♏39'30	-15°57'09	
minimum elong	-7783 Jan 06 j 17:38	21°♏39'29	15°57'30	
max. Earth dist.	-7783 Jan 09 j 08:45	21°♏43'23	46.77635 AU	
retrograde	-7783 Apr 20 j 13:52	23°♏17'19		
min. Earth dist.	-7783 Jul 10 j 15:08	22°♏16'47	44.93545 AU	
opposition	-7783 Jul 13 j 02:23	22°♏13'49	-16°42'26	
direct	-7783 Oct 01 j 13:25	21°♏12'00		
conjunction	-7782 Jan 08 j 02:44	22°♏45'10	-16°03'07	
minimum elong	-7782 Jan 08 j 02:38	22°♏45'10	16°03'30	
max. Earth dist.	-7782 Jan 10 j 17:58	22°♏49'04	46.93071 AU	
retrograde	-7782 Apr 21 j 18:23	24°♏22'39		
min. Earth dist.	-7782 Jul 12 j 00:32	23°♏22'10	45.08931 AU	
opposition	-7782 Jul 14 j 10:23	23°♏19'16	-16°48'19	
direct	-7782 Oct 03 j 01:21	22°♏17'33		
conjunction	-7781 Jan 09 j 11:24	23°♏50'25	-16°08'43	
minimum elong	-7781 Jan 09 j 11:18	23°♏50'25	16°09'05	
max. Earth dist.	-7781 Jan 12 j 00:51	23°♏54'12	47.08231 AU	
retrograde	-7781 Apr 23 j 02:55	25°♏27'33		
min. Earth dist.	-7781 Jul 13 j 08:04	24°♏27'13	45.24048 AU	
opposition	-7781 Jul 15 j 18:03	24°♏24'20	-16°53'48	
direct	-7781 Oct 04 j 09:16	23°♏22'44		
conjunction	-7780 Jan 10 j 19:57	24°♏55'18	-16°13'56	
minimum elong	-7780 Jan 10 j 19:51	24°♏55'18	16°14'19	
max. Earth dist.	-7780 Jan 13 j 08:57	24°♏59'01	47.23121 AU	
retrograde	-7780 Apr 23 j 12:26	26°♏32'07		
min. Earth dist.	-7780 Jul 13 j 17:41	25°♏31'49	45.38891 AU	
opposition	-7780 Jul 16 j 01:49	25°♏29'02	-16°58'54	
direct	-7780 Oct 04 j 15:51	24°♏27'33		
conjunction	-7779 Jan 11 j 04:22	25°♏59'51	-16°18'46	
minimum elong	-7779 Jan 11 j 04:18	25°♏59'51	16°19'09	
max. Earth dist.	-7779 Jan 13 j 16:51	26°♏03'32	47.37744 AU	
retrograde	-7779 Apr 24 j 21:15	27°♏36'20		
min. Earth dist.	-7779 Jul 15 j 01:25	26°♏36'11	45.53425 AU	
opposition	-7779 Jul 17 j 09:18	26°♏33'25	-17°03'37	
direct	-7779 Oct 05 j 23:00	25°♏32'04		
conjunction	-7778 Jan 12 j 12:43	27°♏04'06	-16°23'15	
minimum elong	-7778 Jan 12 j 12:38	27°♏04'06	16°23'40	
max. Earth dist.	-7778 Jan 14 j 23:17	27°♏07'39	47.52034 AU	
retrograde	-7778 Apr 26 j 06:02	28°♏40'17		
min. Earth dist.	-7778 Jul 16 j 10:04	27°♏40'13	45.67614 AU	
opposition	-7778 Jul 18 j 16:37	27°♏37'31	-17°07'59	
direct	-7778 Oct 07 j 05:52	26°♏36'17		
conjunction	-7777 Jan 13 j 21:08	28°♏08'05	-16°27'24	
minimum elong	-7777 Jan 13 j 21:05	28°♏08'05	16°27'49	
max. Earth dist.	-7777 Jan 16 j 07:33	28°♏11'37	47.65949 AU	
retrograde	-7777 Apr 27 j 11:28	29°♏43'59		
min. Earth dist.	-7777 Jul 17 j 19:02	28°♏43'58	45.81378 AU	
opposition	-7777 Jul 19 j 23:53	28°♏41'21	-17°12'00	
direct	-7777 Oct 08 j 15:35	27°♏40'15		
conjunction	-7776 Jan 15 j 05:12	29°♏11'48	-16°31'14	
minimum elong	-7776 Jan 15 j 05:08	29°♏11'47	16°31'39	
max. Earth dist.	-7776 Jan 17 j 13:24	29°♏15'11	47.79423 AU	

Attention, astronomical year style is used: The year -7776 in astronomical counting style is the year 7777 BCE in historical counting style.

	-7776 Feb 19 j 02:06	0°♐	
retrograde	-7776 Apr 27 j 18:09	0°♐47'24	
	-7776 Jul 07 j 10:07	30°℞♏	
min. Earth dist.	-7776 Jul 18 j 02:43	29°♏47'30	45.94676 AU
opposition	-7776 Jul 20 j 07:02	29°♏44'55	-17°15'42
direct	-7776 Oct 09 j 00:01	28°♏43'55	
	-7775 Jan 04 j 23:13	0°♐	
conjunction	-7775 Jan 15 j 13:22	0°♐15'13	-16°34'45
minimum elong	-7775 Jan 15 j 13:20	0°♐15'13	16°35'10
max. Earth dist.	-7775 Jan 17 j 20:34	0°♐18'32	47.92401 AU
retrograde	-7775 Apr 29 j 02:47	1°♐50'32	
min. Earth dist.	-7775 Jul 19 j 12:08	0°♐50'38	46.07461 AU
opposition	-7775 Jul 21 j 14:06	0°♐48'11	-17°19'04
	-7775 Sep 06 j 12:24	30°℞♏	
direct	-7775 Oct 10 j 06:53	29°♏47'17	
	-7775 Nov 12 j 16:29	0°♐	
conjunction	-7774 Jan 16 j 21:32	1°♐18'19	-16°37'57
minimum elong	-7774 Jan 16 j 21:28	1°♐18'19	16°38'23
max. Earth dist.	-7774 Jan 19 j 03:17	1°♐21'33	48.04879 AU
retrograde	-7774 Apr 30 j 11:24	2°♐53'20	
min. Earth dist.	-7774 Jul 20 j 19:35	1°♐53'31	46.19728 AU
opposition	-7774 Jul 22 j 20:56	1°♐51'06	-17°22'08
direct	-7774 Oct 11 j 12:47	0°♐50'16	
conjunction	-7773 Jan 18 j 05:19	2°♐21'04	-16°40'51
minimum elong	-7773 Jan 18 j 05:17	2°♐21'04	16°41'18
max. Earth dist.	-7773 Jan 20 j 09:00	2°♐24'10	48.16852 AU
retrograde	-7773 May 01 j 18:51	3°♐55'47	
min. Earth dist.	-7773 Jul 22 j 03:57	2°♐55'59	46.31527 AU
opposition	-7773 Jul 24 j 03:39	2°♐53'38	-17°24'53
direct	-7773 Oct 12 j 19:44	1°♐52'53	
conjunction	-7772 Jan 19 j 13:06	3°♐23'27	-16°43'27
minimum elong	-7772 Jan 19 j 13:03	3°♐23'27	16°43'53
max. Earth dist.	-7772 Jan 21 j 16:36	3°♐26'31	48.28391 AU
retrograde	-7772 May 01 j 22:27	4°♐57'52	
min. Earth dist.	-7772 Jul 22 j 11:49	3°♐58'06	46.42907 AU
opposition	-7772 Jul 24 j 10:10	3°♐55'49	-17°27'19
direct	-7772 Oct 13 j 05:49	2°♐55'08	
conjunction	-7771 Jan 19 j 20:33	4°♐25'28	-16°45'43
minimum elong	-7771 Jan 19 j 20:32	4°♐25'28	16°46'10
max. Earth dist.	-7771 Jan 21 j 21:59	4°♐28'24	48.39558 AU
retrograde	-7771 May 03 j 04:43	5°♐59'37	
min. Earth dist.	-7771 Jul 23 j 18:30	4°♐59'55	46.53941 AU
opposition	-7771 Jul 25 j 16:34	4°♐57'39	-17°29'24
direct	-7771 Oct 14 j 13:30	3°♐57'02	
conjunction	-7770 Jan 21 j 04:05	5°♐27'09	-16°47'40
minimum elong	-7770 Jan 21 j 04:03	5°♐27'09	16°48'06
max. Earth dist.	-7770 Jan 23 j 05:02	5°♐30'03	48.50390 AU
retrograde	-7770 May 04 j 11:48	7°♐01'03	
min. Earth dist.	-7770 Jul 25 j 02:44	6°♐01'21	46.64662 AU
opposition	-7770 Jul 26 j 22:49	5°♐59'12	-17°31'09
direct	-7770 Oct 15 j 20:18	4°♐58'40	
conjunction	-7769 Jan 22 j 11:28	6°♐28'34	-16°49'16
minimum elong	-7769 Jan 22 j 11:28	6°♐28'34	16°49'44
max. Earth dist.	-7769 Jan 24 j 11:37	6°♐31'24	48.60949 AU
retrograde	-7769 May 05 j 19:45	8°♐02'12	
min. Earth dist.	-7769 Jul 26 j 08:50	7°♐02'38	46.75103 AU
opposition	-7769 Jul 28 j 04:55	7°♐00'29	-17°32'34
direct	-7769 Oct 17 j 01:26	6°♐00'02	
conjunction	-7768 Jan 23 j 18:27	7°♐29'45	-16°50'34
minimum elong	-7768 Jan 23 j 18:27	7°♐29'45	16°51'00
max. Earth dist.	-7768 Jan 25 j 16:58	7°♐32'29	48.71231 AU
retrograde	-7768 May 06 j 04:35	9°♐03'09	
min. Earth dist.	-7768 Jul 26 j 16:16	8°♐03'38	46.85276 AU
opposition	-7768 Jul 28 j 11:07	8°♐01'33	-17°33'39
direct	-7768 Oct 17 j 05:33	7°♐01'12	
conjunction	-7767 Jan 24 j 01:42	8°♐30'45	-16°51'32
minimum elong	-7767 Jan 24 j 01:42	8°♐30'45	16°52'00
max. Earth dist.	-7767 Jan 26 j 00:17	8°♐33'30	48.81244 AU
retrograde	-7767 May 07 j 09:27	10°♐03'57	
min. Earth dist.	-7767 Jul 27 j 23:22	9°♐04'29	46.95144 AU
opposition	-7767 Jul 29 j 16:58	9°♐02'28	-17°34'24
direct	-7767 Oct 18 j 13:30	8°♐02'13	
conjunction	-7766 Jan 25 j 08:47	9°♐31'37	-16°52'11
minimum elong	-7766 Jan 25 j 08:48	9°♐31'37	16°52'39
max. Earth dist.	-7766 Jan 27 j 05:16	9°♐34'14	48.90945 AU
retrograde	-7766 May 08 j 14:20	11°♐04'36	
min. Earth dist.	-7766 Jul 29 j 05:43	10°♐05'16	47.04676 AU
opposition	-7766 Jul 30 j 22:49	10°♐03'16	-17°34'50
direct	-7766 Oct 19 j 20:56	9°♐03'07	
conjunction	-7765 Jan 26 j 15:51	10°♐32'21	-16°52'32
minimum elong	-7765 Jan 26 j 15:52	10°♐32'21	16°53'01
max. Earth dist.	-7765 Jan 28 j 11:40	10°♐34'56	49.00266 AU
retrograde	-7765 May 09 j 20:21	12°♐05'10	
min. Earth dist.	-7765 Jul 30 j 13:46	11°♐05'50	47.13793 AU
opposition	-7765 Aug 01 j 04:37	11°♐03'57	-17°34'58
direct	-7765 Oct 21 j 04:17	10°♐03'54	
conjunction	-7764 Jan 27 j 22:57	11°♐32'59	-16°52'37
minimum elong	-7764 Jan 27 j 22:59	11°♐32'59	16°53'05
max. Earth dist.	-7764 Jan 29 j 17:17	11°♐35'28	49.09164 AU
retrograde	-7764 May 10 j 05:12	13°♐05'36	
min. Earth dist.	-7764 Jul 30 j 19:54	12°♐06'21	47.22444 AU
opposition	-7764 Aug 01 j 10:15	12°♐04'30	-17°34'49
direct	-7764 Oct 21 j 08:09	11°♐04'31	
conjunction	-7763 Jan 28 j 05:53	12°♐33'28	-16°52'25
minimum elong	-7763 Jan 28 j 05:54	12°♐33'28	16°52'54
max. Earth dist.	-7763 Jan 29 j 22:02	12°♐35'49	49.17563 AU
retrograde	-7763 May 11 j 13:14	14°♐05'53	
min. Earth dist.	-7763 Aug 01 j 03:48	13°♐06'38	47.30582 AU
opposition	-7763 Aug 02 j 16:03	13°♐04'53	-17°34'24
direct	-7763 Oct 22 j 12:27	12°♐04'58	
conjunction	-7762 Jan 29 j 13:01	13°♐33'45	-16°51'58
minimum elong	-7762 Jan 29 j 13:04	13°♐33'45	16°52'26
max. Earth dist.	-7762 Jan 31 j 04:30	13°♐36'03	49.25441 AU
retrograde	-7762 May 12 j 17:25	15°♐05'56	
min. Earth dist.	-7762 Aug 02 j 10:42	14°♐06'42	47.38180 AU
opposition	-7762 Aug 03 j 21:30	14°♐05'01	-17°33'44
direct	-7762 Oct 23 j 20:33	13°♐05'09	
conjunction	-7761 Jan 30 j 19:51	14°♐33'47	-16°51'14
minimum elong	-7761 Jan 30 j 19:52	14°♐33'47	16°51'44
max. Earth dist.	-7761 Feb 01 j 08:40	14°♐35'56	49.32809 AU
retrograde	-7761 May 13 j 22:00	16°♐05'44	
min. Earth dist.	-7761 Aug 03 j 17:00	15°♐06'32	47.45292 AU
opposition	-7761 Aug 05 j 02:58	15°♐04'54	-17°32'47
direct	-7761 Oct 25 j 04:03	14°♐05'03	
conjunction	-7760 Feb 01 j 02:28	15°♐33'31	-16°50'15
minimum elong	-7760 Feb 01 j 02:32	15°♐33'31	16°50'45
max. Earth dist.	-7760 Feb 02 j 14:41	15°♐35'37	49.39703 AU
retrograde	-7760 May 14 j 02:19	17°♐05'16	

Attention, astronomical year style is used: The year -7760 in astronomical counting style is the year 7761 BCE in historical counting style.

min. Earth dist.	-7760 Aug 04 j 00:38	16°♐06'01	47.51954 AU
opposition	-7760 Aug 05 j 08:24	16°♐04'29	-17°31'33
direct	-7760 Oct 25 j 11:40	15°♐04'40	
conjunction	-7759 Feb 01 j 09:09	16°♐32'58	-16°49'00
minimum elong	-7759 Feb 01 j 09:12	16°♐32'58	16°49'29
max. Earth dist.	-7759 Feb 02 j 20:04	16°♐34'59	49.46197 AU
retrograde	-7759 May 15 j 08:36	18°♐04'31	
min. Earth dist.	-7759 Aug 05 j 05:56	17°♐05'18	47.58233 AU
opposition	-7759 Aug 06 j 13:29	17°♐03'46	-17°30'02
direct	-7759 Oct 26 j 17:10	16°♐03'59	
conjunction	-7758 Feb 02 j 15:43	17°♐32'08	-16°47'27
minimum elong	-7758 Feb 02 j 15:47	17°♐32'08	16°47'57
max. Earth dist.	-7758 Feb 04 j 00:49	17°♐34'03	49.52326 AU
retrograde	-7758 May 16 j 17:16	19°♐03'29	
opposition	-7758 Aug 07 j 18:44	18°♐02'49	-17°28'13
min. Earth dist.	-7758 Aug 06 j 12:51	18°♐04'15	47.64179 AU
direct	-7758 Oct 27 j 20:14	17°♐03'03	
conjunction	-7757 Feb 03 j 22:13	18°♐31'04	-16°45'37
minimum elong	-7757 Feb 03 j 22:16	18°♐31'04	16°46'07
max. Earth dist.	-7757 Feb 05 j 07:15	18°♐32'59	49.58144 AU
retrograde	-7757 May 17 j 22:07	20°♐02'14	
opposition	-7757 Aug 08 j 23:46	19°♐01'38	-17°26'07
min. Earth dist.	-7757 Aug 07 j 18:46	19°♐03'01	47.69808 AU
direct	-7757 Oct 29 j 02:27	18°♐01'55	
conjunction	-7756 Feb 05 j 04:31	19°♐29'49	-16°43'30
minimum elong	-7756 Feb 05 j 04:36	19°♐29'50	16°44'00
max. Earth dist.	-7756 Feb 06 j 11:31	19°♐31'36	49.63675 AU
retrograde	-7756 May 18 j 03:04	21°♐00'49	
min. Earth dist.	-7756 Aug 08 j 00:18	20°♐01'40	47.75157 AU
opposition	-7756 Aug 09 j 04:46	20°♐00'18	-17°23'43
direct	-7756 Oct 29 j 08:09	19°♐00'38	
conjunction	-7755 Feb 05 j 10:53	20°♐28'27	-16°41'05
minimum elong	-7755 Feb 05 j 10:58	20°♐28'27	16°41'35
max. Earth dist.	-7755 Feb 06 j 17:26	20°♐30'12	49.68908 AU
retrograde	-7755 May 19 j 06:49	21°♐59'19	
min. Earth dist.	-7755 Aug 09 j 07:15	21°♐00'10	47.80184 AU
opposition	-7755 Aug 10 j 09:51	20°♐58'53	-17°21'01
direct	-7755 Oct 30 j 15:51	19°♐59'17	
conjunction	-7754 Feb 06 j 17:19	21°♐27'01	-16°38'24
minimum elong	-7754 Feb 06 j 17:24	21°♐27'01	16°38'55
max. Earth dist.	-7754 Feb 07 j 22:31	21°♐28'41	49.73820 AU
retrograde	-7754 May 20 j 13:55	22°♐57'45	
opposition	-7754 Aug 11 j 14:35	21°♐57'25	-17°18'02
min. Earth dist.	-7754 Aug 10 j 12:21	21°♐58'41	47.84854 AU
direct	-7754 Oct 31 j 20:01	20°♐57'53	
conjunction	-7753 Feb 07 j 23:38	22°♐25'33	-16°35'27
minimum elong	-7753 Feb 07 j 23:43	22°♐25'33	16°35'57
max. Earth dist.	-7753 Feb 09 j 02:57	22°♐27'07	49.78339 AU
retrograde	-7753 May 21 j 22:06	23°♐56'11	
opposition	-7753 Aug 12 j 19:35	22°♐55'57	-17°14'48
min. Earth dist.	-7753 Aug 11 j 19:23	22°♐57'07	47.89113 AU
direct	-7753 Nov 01 j 22:24	21°♐56'29	
conjunction	-7752 Feb 09 j 05:55	23°♐24'05	-16°32'14
minimum elong	-7752 Feb 09 j 06:00	23°♐24'06	16°32'45
max. Earth dist.	-7752 Feb 10 j 08:41	23°♐25'37	49.82417 AU
retrograde	-7752 May 22 j 02:54	24°♐54'36	
min. Earth dist.	-7752 Aug 12 j 01:31	23°♐55'34	47.92877 AU
opposition	-7752 Aug 13 j 00:25	23°♐54'28	-17°11'18
direct	-7752 Nov 02 j 04:51	22°♐55'03	
conjunction	-7751 Feb 09 j 12:15	24°♐22'37	-16°28'48
minimum elong	-7751 Feb 09 j 12:22	24°♐22'37	16°29'18
max. Earth dist.	-7751 Feb 10 j 12:14	24°♐23'59	49.85983 AU
retrograde	-7751 May 23 j 07:35	25°♐53'00	
min. Earth dist.	-7751 Aug 13 j 07:28	24°♐53'59	47.96112 AU
opposition	-7751 Aug 14 j 05:11	24°♐52'57	-17°07'34
direct	-7751 Nov 03 j 11:13	23°♐53'34	
conjunction	-7750 Feb 10 j 18:44	25°♐21'04	-16°25'07
minimum elong	-7750 Feb 10 j 18:50	25°♐21'04	16°25'38
max. Earth dist.	-7750 Feb 11 j 17:38	25°♐22'22	49.88996 AU
retrograde	-7750 May 24 j 11:19	26°♐51'20	
opposition	-7750 Aug 15 j 10:03	25°♐51'20	-17°03'36
min. Earth dist.	-7750 Aug 14 j 14:48	25°♐52'16	47.98785 AU
direct	-7750 Nov 04 j 18:32	24°♐51'59	
conjunction	-7749 Feb 12 j 00:57	26°♐19'24	-16°21'12
minimum elong	-7749 Feb 12 j 01:05	26°♐19'24	16°21'43
max. Earth dist.	-7749 Feb 12 j 22:06	26°♐20'36	49.91477 AU
retrograde	-7749 May 25 j 16:53	27°♐49'33	
opposition	-7749 Aug 16 j 14:39	26°♐49'36	-16°59'23
min. Earth dist.	-7749 Aug 15 j 19:51	26°♐50'30	48.00933 AU
direct	-7749 Nov 05 j 23:54	25°♐50'14	
conjunction	-7748 Feb 13 j 07:05	27°♐17'35	-16°17'03
minimum elong	-7748 Feb 13 j 07:11	27°♐17'35	16°17'34
max. Earth dist.	-7748 Feb 14 j 02:05	27°♐18'40	49.93453 AU
retrograde	-7748 May 26 j 01:14	28°♐47'37	
opposition	-7748 Aug 16 j 19:18	27°♐47'42	-16°54'56
min. Earth dist.	-7748 Aug 16 j 02:37	27°♐48'30	48.02616 AU
direct	-7748 Nov 06 j 02:22	26°♐48'20	
conjunction	-7747 Feb 13 j 13:18	28°♐15'37	-16°12'39
minimum elong	-7747 Feb 13 j 13:26	28°♐15'37	16°13'11
max. Earth dist.	-7747 Feb 14 j 07:58	28°♐16'40	49.94998 AU
retrograde	-7747 May 27 j 06:51	29°♐45'31	
opposition	-7747 Aug 17 j 23:50	28°♐45'37	-16°50'12
min. Earth dist.	-7747 Aug 17 j 08:09	28°♐46'22	48.03877 AU
direct	-7747 Nov 07 j 07:06	27°♐46'14	
conjunction	-7746 Feb 14 j 19:20	29°♐13'28	-16°08'00
minimum elong	-7746 Feb 14 j 19:27	29°♐13'28	16°08'30
max. Earth dist.	-7746 Feb 15 j 11:39	29°♐14'24	49.96159 AU
	-7746 Mar 22 j 13:30	0°♑	
retrograde	-7746 May 28 j 12:01	0°♑43'14	
	-7746 Aug 04 j 11:03	30°℞♐	
opposition	-7746 Aug 19 j 04:14	29°♐43'23	-16°45'13
min. Earth dist.	-7746 Aug 18 j 13:21	29°♐44'05	48.04791 AU
direct	-7746 Nov 08 j 11:57	28°♐44'00	
	-7745 Feb 07 j 20:32	0°♑	
conjunction	-7745 Feb 16 j 01:24	0°♑11'10	-16°03'04
minimum elong	-7745 Feb 16 j 01:32	0°♑11'11	16°03'36
max. Earth dist.	-7745 Feb 16 j 17:15	0°♑12'04	49.96986 AU
retrograde	-7745 May 29 j 13:10	1°♑40'51	
opposition	-7745 Aug 20 j 08:47	0°♑41'01	-16°39'57
min. Earth dist.	-7745 Aug 19 j 19:38	0°♑41'38	48.05385 AU
	-7745 Sep 28 j 20:33	30°℞♐	
direct	-7745 Nov 09 j 20:38	29°♐41'38	
	-7745 Dec 21 j 10:21	0°♑	
conjunction	-7744 Feb 17 j 07:13	1°♑08'45	-15°57'53
minimum elong	-7744 Feb 17 j 07:21	1°♑08'46	15°58'23
max. Earth dist.	-7744 Feb 17 j 21:54	1°♑09'36	49.97530 AU
retrograde	-7744 May 29 j 18:17	2°♑38'21	
opposition	-7744 Aug 20 j 13:11	1°♑38'33	-16°34'24
min. Earth dist.	-7744 Aug 20 j 00:04	1°♑39'11	48.05689 AU

Attention, astronomical year style is used: The year -7744 in astronomical counting style is the year 7745 BCE in historical counting style.

direct	-7744 Nov 10 j 02:05	0°♑39'11	
conjunction	-7743 Feb 17 j 13:10	2°♑06'17	-15°52'25
minimum elong	-7743 Feb 17 j 13:18	2°♑06'17	15°52'56
max. Earth dist.	-7743 Feb 18 j 02:12	2°♑07'01	49.97776 AU
retrograde	-7743 May 31 j 02:23	3°♑35'48	
opposition	-7743 Aug 21 j 17:35	2°♒36'03	-16°28'35
min. Earth dist.	-7743 Aug 21 j 06:24	2°♒36'35	48.05698 AU
direct	-7743 Nov 11 j 03:48	1°♑36'42	
conjunction	-7742 Feb 18 j 19:16	3°♑03'47	-15°46'41
minimum elong	-7742 Feb 18 j 19:25	3°♑03'47	15°47'12
max. Earth dist.	-7742 Feb 19 j 08:00	3°♑04'30	49.97719 AU
retrograde	-7742 Jun 01 j 07:38	4°♑33'15	
opposition	-7742 Aug 22 j 21:57	3°♒33'33	-16°22'30
min. Earth dist.	-7742 Aug 22 j 11:33	3°♒34'03	48.05363 AU
direct	-7742 Nov 12 j 08:56	2°♑34'12	
conjunction	-7741 Feb 20 j 01:05	4°♑01'18	-15°40'42
minimum elong	-7741 Feb 20 j 01:14	4°♑01'18	15°41'14
max. Earth dist.	-7741 Feb 20 j 11:26	4°♑01'53	49.97302 AU
retrograde	-7741 Jun 02 j 13:05	5°♑30'42	
opposition	-7741 Aug 24 j 02:19	4°♒31'03	-16°16'09
min. Earth dist.	-7741 Aug 23 j 17:00	4°♒31'30	48.04647 AU
direct	-7741 Nov 13 j 13:29	3°♑31'43	
conjunction	-7740 Feb 21 j 07:10	4°♑58'50	-15°34'28
minimum elong	-7740 Feb 21 j 07:20	4°♑58'50	15°35'00
max. Earth dist.	-7740 Feb 21 j 16:47	4°♑59'23	49.96460 AU
retrograde	-7740 Jun 02 j 16:20	6°♑28'11	
opposition	-7740 Aug 24 j 06:42	5°♒28'35	-16°09'33
min. Earth dist.	-7740 Aug 23 j 23:38	5°♒28'55	48.03469 AU
direct	-7740 Nov 13 j 20:25	4°♑29'15	
conjunction	-7739 Feb 21 j 13:15	5°♑56'22	-15°28'01
minimum elong	-7739 Feb 21 j 13:24	5°♑56'23	15°28'32
max. Earth dist.	-7739 Feb 21 j 20:58	5°♑56'49	49.95144 AU
retrograde	-7739 Jun 03 j 20:55	7°♑25'42	
opposition	-7739 Aug 25 j 11:04	6°♒26'07	-16°02'44
min. Earth dist.	-7739 Aug 25 j 04:33	6°♒26'26	48.01778 AU
direct	-7739 Nov 15 j 02:13	5°♑26'47	
conjunction	-7738 Feb 22 j 19:21	6°♑53'54	-15°21'20
minimum elong	-7738 Feb 22 j 19:32	6°♑53'55	15°21'51
max. Earth dist.	-7738 Feb 23 j 00:45	6°♑54'13	49.93288 AU
retrograde	-7738 Jun 05 j 04:04	8°♑23'11	
opposition	-7738 Aug 26 j 15:30	7°♒23'37	-15°55'41
min. Earth dist.	-7738 Aug 26 j 11:20	7°♒23'49	47.99553 AU
direct	-7738 Nov 16 j 05:35	6°♑24'15	
conjunction	-7737 Feb 24 j 01:29	7°♑51'23	-15°14'25
minimum elong	-7737 Feb 24 j 01:38	7°♑51'24	15°14'56
max. Earth dist.	-7737 Feb 24 j 06:11	7°♑51'39	49.90916 AU
retrograde	-7737 Jun 06 j 10:03	9°♑20'36	
opposition	-7737 Aug 27 j 19:50	8°♒21'03	-15°48'24
min. Earth dist.	-7737 Aug 27 j 16:46	8°♒21'12	47.96809 AU
direct	-7737 Nov 17 j 09:43	7°♑21'39	
conjunction	-7736 Feb 25 j 07:16	8°♑48'48	-15°07'16
minimum elong	-7736 Feb 25 j 07:27	8°♑48'48	15°07'47
max. Earth dist.	-7736 Feb 25 j 09:25	8°♑48'55	49.88055 AU
retrograde	-7736 Jun 06 j 16:18	10°♑17'57	
opposition	-7736 Aug 28 j 00:10	9°♒18'24	-15°40'52
min. Earth dist.	-7736 Aug 27 j 22:13	9°♒18'30	47.93609 AU
direct	-7736 Nov 17 j 13:45	8°♑18'58	
conjunction	-7735 Feb 25 j 13:21	9°♑46'07	-14°59'53
minimum elong	-7735 Feb 25 j 13:30	9°♑46'08	15°00'24
max. Earth dist.	-7735 Feb 25 j 14:44	9°♑46'12	49.84752 AU
retrograde	-7735 Jun 07 j 17:56	11°♑15'14	
opposition	-7735 Aug 29 j 04:24	10°♒15'41	-15°33'05
min. Earth dist.	-7735 Aug 29 j 04:25	10°♒15'41	47.89992 AU
direct	-7735 Nov 18 j 21:34	9°♑16'12	
evening set	-7734 Feb 24 j 17:59	10°♑40'35	
conjunction	-7734 Feb 26 j 19:21	10°♑43'23	-14°52'15
minimum elong	-7734 Feb 26 j 19:32	10°♑43'23	14°52'47
max. Earth dist.	-7734 Feb 26 j 19:22	10°♑43'23	49.81081 AU
morning rise	-7734 Feb 28 j 21:08	10°♑46'12	
retrograde	-7734 Jun 08 j 22:08	12°♑12'29	
opposition	-7734 Aug 30 j 08:37	11°♒12'55	-15°25'02
min. Earth dist.	-7734 Aug 30 j 08:51	11°♒12'54	47.86026 AU
direct	-7734 Nov 20 j 03:31	10°♑13'24	
evening set	-7733 Feb 25 j 01:42	11°♑36'34	
conjunction	-7733 Feb 28 j 01:07	11°♑40'37	-14°44'22
minimum elong	-7733 Feb 28 j 01:18	11°♑40'37	14°44'52
max. Earth dist.	-7733 Feb 27 j 23:28	11°♑40'31	49.77071 AU
morning rise	-7733 Mar 03 j 00:57	11°♑44'41	
retrograde	-7733 Jun 10 j 05:58	13°♑09'42	
opposition	-7733 Aug 31 j 12:58	12°♒10'09	-15°16'44
min. Earth dist.	-7733 Aug 31 j 15:01	12°♒10'03	47.81755 AU
direct	-7733 Nov 21 j 05:25	11°♑10'36	
evening set	-7732 Feb 25 j 14:44	12°♑32'52	
conjunction	-7732 Feb 29 j 07:07	12°♑37'52	-14°36'13
minimum elong	-7732 Feb 29 j 07:18	12°♑37'53	14°36'44
max. Earth dist.	-7732 Feb 29 j 05:17	12°♑37'46	49.72783 AU
morning rise	-7732 Mar 03 j 23:56	12°♑42'54	
retrograde	-7732 Jun 10 j 11:10	14°♑06'58	
opposition	-7732 Aug 31 j 17:10	13°♒07'26	-15°08'08
min. Earth dist.	-7732 Aug 31 j 19:44	13°♒07'18	47.77196 AU
direct	-7732 Nov 21 j 09:58	12°♑07'51	
evening set	-7731 Feb 25 j 06:06	13°♑29'22	
conjunction	-7731 Mar 01 j 13:01	13°♑35'12	-14°27'48
minimum elong	-7731 Mar 01 j 13:13	13°♑35'13	14°28'18
max. Earth dist.	-7731 Mar 01 j 09:00	13°♑34'59	49.68221 AU
morning rise	-7731 Mar 05 j 20:27	13°♑41'03	
retrograde	-7731 Jun 11 j 17:17	15°♑04'19	
opposition	-7731 Sep 01 j 21:29	14°♒04'48	-14°59'17
min. Earth dist.	-7731 Sep 02 j 00:58	14°♒04'38	47.72360 AU
direct	-7731 Nov 22 j 14:00	13°♑05'12	
evening set	-7730 Feb 25 j 23:10	14°♑26'05	
conjunction	-7730 Mar 02 j 19:07	14°♑32'40	-14°19'07
minimum elong	-7730 Mar 02 j 19:19	14°♑32'40	14°19'39
max. Earth dist.	-7730 Mar 02 j 14:38	14°♑32'24	49.63353 AU
morning rise	-7730 Mar 07 j 15:33	14°♑39'15	
retrograde	-7730 Jun 12 j 20:13	16°♑01'48	
opposition	-7730 Sep 03 j 01:49	15°♒02'18	-14°50'10
min. Earth dist.	-7730 Sep 03 j 07:09	15°♒02'03	47.67197 AU
direct	-7730 Nov 23 j 21:15	14°♑02'43	
evening set	-7729 Feb 26 j 17:26	15°♑23'01	
conjunction	-7729 Mar 04 j 01:10	15°♑30'16	-14°10'11
minimum elong	-7729 Mar 04 j 01:22	15°♑30'17	14°10'42
max. Earth dist.	-7729 Mar 03 j 19:10	15°♑29'56	49.58158 AU
morning rise	-7729 Mar 09 j 09:26	15°♑37'32	
retrograde	-7729 Jun 14 j 00:36	16°♑59'28	
opposition	-7729 Sep 04 j 06:06	16°♒00'00	-14°40'47
min. Earth dist.	-7729 Sep 04 j 11:42	15°♒59'44	47.61668 AU
direct	-7729 Nov 25 j 02:58	15°♑00'23	
evening set	-7728 Feb 27 j 12:21	16°♑20'11	

Attention, astronomical year style is used: The year -7728 in astronomical counting style is the year 7729 BCE in historical counting style.

conjunction	-7728 Mar 04 j 07:10	16°♑28'03	-14°01'00
minimum elong	-7728 Mar 04 j 07:21	16°♑28'03	14°01'32
max. Earth dist.	-7728 Mar 03 j 23:10	16°♑27'36	49.52547 AU
morning rise	-7728 Mar 10 j 02:33	16°♑35'58	
retrograde	-7728 Jun 14 j 07:44	17°♑57'19	
opposition	-7728 Sep 04 j 10:36	16°♑57'52	-14°31'09
min. Earth dist.	-7728 Sep 04 j 18:35	16°♑57'29	47.55696 AU
direct	-7728 Nov 25 j 06:23	15°♑58'14	
evening set	-7727 Feb 27 j 08:22	17°♑17'33	
conjunction	-7727 Mar 05 j 13:33	17°♑26'00	-13°51'36
minimum elong	-7727 Mar 05 j 13:46	17°♑26'00	13°52'06
max. Earth dist.	-7727 Mar 05 j 04:51	17°♑25'30	49.46465 AU
morning rise	-7727 Mar 11 j 19:14	17°♑34'30	
retrograde	-7727 Jun 15 j 15:13	18°♑55'18	
opposition	-7727 Sep 05 j 14:58	17°♑55'52	-14°21'17
min. Earth dist.	-7727 Sep 06 j 00:03	17°♑55'26	47.49209 AU
direct	-7727 Nov 26 j 09:33	16°♑56'11	
evening set	-7726 Feb 28 j 04:56	18°♑15'03	
conjunction	-7726 Mar 06 j 19:51	18°♑24'04	-13°41'58
minimum elong	-7726 Mar 06 j 20:02	18°♑24'05	13°42'28
max. Earth dist.	-7726 Mar 06 j 08:12	18°♑23'24	49.39856 AU
morning rise	-7726 Mar 13 j 11:23	18°♑33'07	
retrograde	-7726 Jun 16 j 23:18	19°♑53'25	
opposition	-7726 Sep 06 j 19:32	18°♑53'57	-14°11'11
min. Earth dist.	-7726 Sep 07 j 06:03	18°♑53'27	47.42196 AU
direct	-7726 Nov 27 j 12:37	17°♑54'13	
evening set	-7725 Mar 01 j 01:48	19°♑12'39	
conjunction	-7725 Mar 08 j 02:07	19°♑22'12	-13°32'06
minimum elong	-7725 Mar 08 j 02:20	19°♑22'13	13°32'36
max. Earth dist.	-7725 Mar 07 j 13:32	19°♑21'29	49.32709 AU
morning rise	-7725 Mar 15 j 02:59	19°♑31'47	
retrograde	-7725 Jun 18 j 01:46	20°♑51'35	
opposition	-7725 Sep 08 j 00:08	19°♑52'06	-14°00'51
min. Earth dist.	-7725 Sep 08 j 12:43	19°♑51'29	47.34647 AU
direct	-7725 Nov 28 j 20:08	18°♑52'17	
evening set	-7724 Feb 29 j 23:16	20°♑10'17	
conjunction	-7724 Mar 08 j 08:26	20°♑20'22	-13°22'00
minimum elong	-7724 Mar 08 j 08:38	20°♑20'22	13°22'31
max. Earth dist.	-7724 Mar 07 j 18:06	20°♑19'33	49.25068 AU
morning rise	-7724 Mar 15 j 18:09	20°♑30'28	
retrograde	-7724 Jun 18 j 04:31	21°♑49'47	
opposition	-7724 Sep 08 j 04:31	20°♑50'14	-13°50'17
min. Earth dist.	-7724 Sep 08 j 17:40	20°♑49'36	47.26622 AU
direct	-7724 Nov 29 j 03:54	19°♑50'20	
evening set	-7723 Mar 01 j 21:00	21°♑07'57	
conjunction	-7723 Mar 09 j 14:48	21°♑18'31	-13°11'40
minimum elong	-7723 Mar 09 j 15:01	21°♑18'32	13°12'11
max. Earth dist.	-7723 Mar 08 j 22:24	21°♑17'35	49.16959 AU
morning rise	-7723 Mar 17 j 09:15	21°♑29'07	
retrograde	-7723 Jun 19 j 11:07	22°♑47'59	
opposition	-7723 Sep 09 j 09:09	21°♑48'23	-13°39'27
min. Earth dist.	-7723 Sep 10 j 00:29	21°♑47'39	47.18163 AU
direct	-7723 Nov 30 j 08:06	20°♑48'24	
evening set	-7722 Mar 02 j 19:07	22°♑05'38	
conjunction	-7722 Mar 10 j 21:14	22°♑16'40	-13°01'05
minimum elong	-7722 Mar 10 j 21:25	22°♑16'41	13°01'35
max. Earth dist.	-7722 Mar 10 j 04:23	22°♑15'42	49.08450 AU
morning rise	-7722 Mar 18 j 23:48	22°♑27'45	
retrograde	-7722 Jun 20 j 16:40	23°♑46'11	
opposition	-7722 Sep 10 j 13:38	22°♑46'32	-13°28'22
min. Earth dist.	-7722 Sep 11 j 05:33	22°♑45'46	47.09320 AU
direct	-7722 Dec 01 j 12:46	21°♑46'27	
evening set	-7721 Mar 03 j 17:27	23°♑03'20	
max. Earth dist.	-7721 Mar 11 j 08:26	23°♑13'45	48.99592 AU
conjunction	-7721 Mar 12 j 03:29	23°♑14'50	-12°50'14
minimum elong	-7721 Mar 12 j 03:42	23°♑14'51	12°50'45
morning rise	-7721 Mar 20 j 14:12	23°♑26'23	
retrograde	-7721 Jun 22 j 00:16	24°♑44'25	
opposition	-7721 Sep 11 j 18:16	23°♑44'43	-13°17'00
min. Earth dist.	-7721 Sep 12 j 11:16	23°♑43'54	47.00164 AU
direct	-7721 Dec 02 j 16:09	22°♑44'32	
evening set	-7720 Mar 03 j 15:51	24°♑01'07	
conjunction	-7720 Mar 12 j 09:49	24°♑13'05	-12°39'08
minimum elong	-7720 Mar 12 j 10:01	24°♑13'05	12°39'37
max. Earth dist.	-7720 Mar 11 j 14:23	24°♑11'58	48.90424 AU
morning rise	-7720 Mar 21 j 04:16	24°♑25'04	
retrograde	-7720 Jun 22 j 04:10	25°♑42'44	
opposition	-7720 Sep 11 j 23:01	24°♑42'59	-13°05'22
min. Earth dist.	-7720 Sep 12 j 17:32	24°♑42'05	46.90700 AU
direct	-7720 Dec 02 j 23:18	23°♑42'44	
evening set	-7719 Mar 04 j 14:52	24°♑59'01	
conjunction	-7719 Mar 13 j 16:17	25°♑11'25	-12°27'46
minimum elong	-7719 Mar 13 j 16:30	25°♑11'26	12°28'16
max. Earth dist.	-7719 Mar 12 j 19:25	25°♑10'14	48.80976 AU
morning rise	-7719 Mar 22 j 18:16	25°♑23'51	
retrograde	-7719 Jun 23 j 08:33	26°♑41'11	
opposition	-7719 Sep 13 j 03:36	25°♑41'24	-12°53'27
min. Earth dist.	-7719 Sep 13 j 22:16	25°♑40'30	46.80950 AU
direct	-7719 Dec 04 j 05:37	24°♑41'04	
evening set	-7718 Mar 05 j 14:03	25°♑57'07	
conjunction	-7718 Mar 14 j 22:52	26°♑09'57	-12°16'08
minimum elong	-7718 Mar 14 j 23:05	26°♑09'58	12°16'37
max. Earth dist.	-7718 Mar 14 j 00:20	26°♑08'39	48.71220 AU
morning rise	-7718 Mar 24 j 08:18	26°♑22'49	
retrograde	-7718 Jun 24 j 14:52	27°♑39'50	
opposition	-7718 Sep 14 j 08:31	26°♑40'02	-12°41'16
min. Earth dist.	-7718 Sep 15 j 05:14	26°♑39'02	46.70886 AU
direct	-7718 Dec 05 j 10:12	25°♑39'39	
evening set	-7717 Mar 06 j 13:24	26°♑55'27	
max. Earth dist.	-7717 Mar 15 j 06:36	27°♑07'24	48.61136 AU
conjunction	-7717 Mar 16 j 05:26	27°♑08'43	-12°04'14
minimum elong	-7717 Mar 16 j 05:38	27°♑08'43	12°04'44
morning rise	-7717 Mar 25 j 21:51	27°♑22'01	
retrograde	-7717 Jun 25 j 21:58	28°♑38'45	
opposition	-7717 Sep 15 j 13:21	27°♑38'55	-12°28'48
min. Earth dist.	-7717 Sep 16 j 10:45	27°♑37'53	46.60452 AU
direct	-7717 Dec 06 j 14:22	26°♑38'29	
evening set	-7716 Mar 06 j 13:15	27°♑54'04	
max. Earth dist.	-7716 Mar 15 j 10:41	28°♑06'18	48.50655 AU
conjunction	-7716 Mar 16 j 12:08	28°♑07'45	-11°52'05
minimum elong	-7716 Mar 16 j 12:21	28°♑07'46	11°52'34
morning rise	-7716 Mar 26 j 11:39	28°♑21'29	
retrograde	-7716 Jun 26 j 07:09	29°♑37'56	
opposition	-7716 Sep 15 j 18:12	28°♑38'05	-12°16'05
min. Earth dist.	-7716 Sep 16 j 17:04	28°♑36'59	46.49600 AU
direct	-7716 Dec 06 j 17:04	27°♑37'34	
evening set	-7715 Mar 07 j 13:20	28°♑52'59	
conjunction	-7715 Mar 17 j 19:11	29°♑07'05	-11°39'42
minimum elong	-7715 Mar 17 j 19:23	29°♑07'06	11°40'11
max. Earth dist.	-7715 Mar 16 j 16:48	29°♑05'34	48.39706 AU
morning rise	-7715 Mar 28 j 01:24	29°♑21'13	

Attention, astronomical year style is used: The year -7715 in astronomical counting style is the year 7716 BCE in historical counting style.

	-7715 Apr 27 j 13:44	0°♒	
retrograde	-7715 Jun 27 j 12:18	0°♒37'26	
	-7715 Aug 28 j 03:23	30°♑℞	
opposition	-7715 Sep 16 j 23:21	29°♑37'32	-12°03'07
min. Earth dist.	-7715 Sep 18 j 00:17	29°♑36'20	46.38243 AU
direct	-7715 Dec 07 j 23:39	28°♑36'56	
evening set	-7714 Mar 08 j 13:51	29°♑52'10	
	-7714 Mar 14 j 06:37	0°♒	
max. Earth dist.	-7714 Mar 17 j 21:52	0°♒05'02	48.28251 AU
conjunction	-7714 Mar 19 j 02:10	0°♒06'40	-11°27'03
minimum elong	-7714 Mar 19 j 02:24	0°♒06'41	11°27'31
morning rise	-7714 Mar 29 j 14:58	0°♒21'12	
retrograde	-7714 Jun 28 j 16:06	1°♒37'10	
opposition	-7714 Sep 18 j 04:25	0°♒37'13	-11°49'54
min. Earth dist.	-7714 Sep 19 j 06:01	0°♒35'59	46.26368 AU
	-7714 Oct 22 j 14:13	30°♑℞	
direct	-7714 Dec 09 j 07:46	29°♑36'31	
	-7713 Jan 25 j 14:13	0°♒	
evening set	-7713 Mar 09 j 14:25	0°♒51'35	
max. Earth dist.	-7713 Mar 19 j 02:40	1°♒04'43	48.16266 AU
conjunction	-7713 Mar 20 j 09:15	1°♒06'29	-11°14'10
minimum elong	-7713 Mar 20 j 09:27	1°♒06'30	11°14'39
morning rise	-7713 Mar 31 j 04:32	1°♒21'24	
retrograde	-7713 Jun 29 j 22:31	2°♒37'08	
opposition	-7713 Sep 19 j 09:43	1°♒37'07	-11°36'25
min. Earth dist.	-7713 Sep 20 j 13:40	1°♒35'46	46.13981 AU
direct	-7713 Dec 10 j 13:11	0°♒36'19	
evening set	-7712 Mar 09 j 15:10	1°♒51'11	
max. Earth dist.	-7712 Mar 19 j 09:08	2°♒04'40	48.03795 AU
conjunction	-7712 Mar 20 j 16:21	2°♒06'28	-11°01'02
minimum elong	-7712 Mar 20 j 16:34	2°♒06'29	11°01'31
morning rise	-7712 Mar 31 j 17:47	2°♒21'47	
retrograde	-7712 Jun 30 j 05:17	3°♒37'17	
opposition	-7712 Sep 19 j 14:57	2°♒37'11	-11°22'41
min. Earth dist.	-7712 Sep 20 j 19:36	2°♒35'47	46.01112 AU
direct	-7712 Dec 10 j 17:52	1°♒36'15	
evening set	-7711 Mar 10 j 16:19	2°♒50'57	
conjunction	-7711 Mar 21 j 23:31	3°♒06'37	-10°47'40
minimum elong	-7711 Mar 21 j 23:43	3°♒06'38	10°48'07
max. Earth dist.	-7711 Mar 20 j 13:45	3°♒04'40	47.90867 AU
morning rise	-7711 Apr 02 j 07:11	3°♒22'20	
retrograde	-7711 Jul 01 j 14:05	4°♒37'36	
opposition	-7711 Sep 20 j 20:10	3°♒37'24	-11°08'41
min. Earth dist.	-7711 Sep 22 j 02:22	3°♒35'56	45.87832 AU
direct	-7711 Dec 11 j 21:40	2°♒36'19	
evening set	-7710 Mar 11 j 17:32	3°♒50'53	
max. Earth dist.	-7710 Mar 21 j 20:35	4°♒04'57	47.77544 AU
conjunction	-7710 Mar 23 j 06:52	4°♒06'56	-10°34'01
minimum elong	-7710 Mar 23 j 07:06	4°♒06'57	10°34'29
morning rise	-7710 Apr 03 j 20:22	4°♒23'01	
retrograde	-7710 Jul 02 j 19:31	5°♒38'04	
opposition	-7710 Sep 22 j 01:40	4°♒37'46	-10°54'23
min. Earth dist.	-7710 Sep 23 j 09:21	4°♒36'14	45.74183 AU
direct	-7710 Dec 13 j 05:20	3°♒36'33	
evening set	-7709 Mar 12 j 18:55	4°♒51'00	
max. Earth dist.	-7709 Mar 23 j 02:14	5°♒05'20	47.63901 AU
conjunction	-7709 Mar 24 j 13:57	5°♒07'25	-10°20'06
minimum elong	-7709 Mar 24 j 14:09	5°♒07'26	10°20'33
morning rise	-7709 Apr 05 j 09:16	5°♒23'51	
retrograde	-7709 Jul 04 j 00:49	6°♒38'43	
opposition	-7709 Sep 23 j 07:06	5°♒38'20	-10°39'49
min. Earth dist.	-7709 Sep 24 j 14:53	5°♒36'46	45.60240 AU
direct	-7709 Dec 14 j 12:51	4°♒36'58	
evening set	-7708 Mar 12 j 20:33	5°♒51'19	
max. Earth dist.	-7708 Mar 23 j 08:10	6°♒05'55	47.49966 AU
conjunction	-7708 Mar 24 j 21:20	6°♒08'05	-10°05'55
minimum elong	-7708 Mar 24 j 21:33	6°♒08'06	10°06'22
morning rise	-7708 Apr 05 j 22:21	6°♒24'53	
retrograde	-7708 Jul 04 j 06:06	7°♒39'36	
opposition	-7708 Sep 23 j 12:41	6°♒39'07	-10°24'57
min. Earth dist.	-7708 Sep 24 j 22:27	6°♒37'27	45.46033 AU
direct	-7708 Dec 14 j 19:34	5°♒37'37	
evening set	-7707 Mar 13 j 22:31	6°♒51'52	
max. Earth dist.	-7707 Mar 24 j 15:32	7°♒06'48	47.35789 AU
conjunction	-7707 Mar 26 j 04:55	7°♒09'00	-9°51'26
minimum elong	-7707 Mar 26 j 05:08	7°♒09'01	9°51'53
morning rise	-7707 Apr 07 j 11:19	7°♒26'10	
retrograde	-7707 Jul 05 j 12:51	8°♒40'44	
opposition	-7707 Sep 24 j 18:23	7°♒40'09	-10°09'48
min. Earth dist.	-7707 Sep 26 j 04:19	7°♒38'29	45.31570 AU
direct	-7707 Dec 16 j 01:34	6°♒38'32	
evening set	-7706 Mar 15 j 00:45	7°♒52'43	
max. Earth dist.	-7706 Mar 25 j 20:48	8°♒07'53	47.21351 AU
conjunction	-7706 Mar 27 j 12:26	8°♒10'13	-9°36'41
minimum elong	-7706 Mar 27 j 12:39	8°♒10'14	9°37'08
morning rise	-7706 Apr 09 j 00:20	8°♒27'44	
retrograde	-7706 Jul 06 j 23:34	9°♒42'11	
opposition	-7706 Sep 26 j 00:11	8°♒41'31	-9°54'20
min. Earth dist.	-7706 Sep 27 j 11:23	8°♒39'47	45.16850 AU
direct	-7706 Dec 17 j 03:50	7°♒39'47	
evening set	-7705 Mar 16 j 03:08	8°♒53'55	
max. Earth dist.	-7705 Mar 27 j 04:22	9°♒09'26	47.06630 AU
conjunction	-7705 Mar 28 j 20:15	9°♒11'47	-9°21'39
minimum elong	-7705 Mar 28 j 20:27	9°♒11'47	9°22'05
morning rise	-7705 Apr 10 j 13:14	9°♒29'39	
retrograde	-7705 Jul 08 j 07:11	10°♒44'00	
opposition	-7705 Sep 27 j 06:09	9°♒43'15	-9°38'35
min. Earth dist.	-7705 Sep 28 j 18:48	9°♒41'27	45.01815 AU
direct	-7705 Dec 18 j 09:41	8°♒41'23	
evening set	-7704 Mar 16 j 05:54	9°♒55'31	
max. Earth dist.	-7704 Mar 27 j 10:27	10°♒11'16	46.91575 AU
conjunction	-7704 Mar 29 j 04:03	10°♒13'43	-9°06'20
minimum elong	-7704 Mar 29 j 04:15	10°♒13'44	9°06'47
morning rise	-7704 Apr 11 j 02:13	10°♒31'56	
retrograde	-7704 Jul 08 j 13:22	11°♒46'12	
opposition	-7704 Sep 27 j 12:12	10°♒45'22	-9°22'33
min. Earth dist.	-7704 Sep 29 j 01:27	10°♒43'32	44.86408 AU
direct	-7704 Dec 18 j 17:55	9°♒43'22	
evening set	-7703 Mar 17 j 09:03	10°♒57'30	
max. Earth dist.	-7703 Mar 28 j 16:43	11°♒13'28	46.76091 AU
conjunction	-7703 Mar 30 j 12:14	11°♒16'03	-8°50'46
minimum elong	-7703 Mar 30 j 12:27	11°♒16'04	8°51'10
morning rise	-7703 Apr 12 j 15:19	11°♒34'37	
retrograde	-7703 Jul 09 j 19:13	12°♒48'49	
opposition	-7703 Sep 28 j 18:29	11°♒47'53	-9°06'14
min. Earth dist.	-7703 Sep 30 j 10:06	11°♒45'55	44.70554 AU
direct	-7703 Dec 20 j 02:00	10°♒45'44	
evening set	-7702 Mar 18 j 12:32	11°♒59'52	
max. Earth dist.	-7702 Mar 30 j 00:17	12°♒16'07	46.60149 AU
conjunction	-7702 Mar 31 j 20:37	12°♒18'45	-8°34'55
minimum elong	-7702 Mar 31 j 20:48	12°♒18'46	8°35'20

Attention, astronomical year style is used: The year -7702 in astronomical counting style is the year 7703 BCE in historical counting style.

morning rise	-7702 Apr 14 j 04:22	12°♒37'39		
retrograde	-7702 Jul 11 j 02:09	13°♒51'48		
opposition	-7702 Sep 30 j 00:57	12°♒50'45	-8°49'38	
min. Earth dist.	-7702 Oct 01 j 17:09	12°♒48'45	44.54219 AU	
direct	-7702 Dec 21 j 09:00	11°♒48'27		
evening set	-7701 Mar 19 j 16:13	13°♒02'34		
max. Earth dist.	-7701 Mar 31 j 05:54	13°♒19'00	46.43720 AU	
conjunction	-7701 Apr 02 j 04:51	13°♒21'48	-8°18'48	
minimum elong	-7701 Apr 02 j 05:03	13°♒21'49	8°19'12	
morning rise	-7701 Apr 15 j 17:23	13°♒41'02		
retrograde	-7701 Jul 12 j 11:59	14°♒55'07		
opposition	-7701 Oct 01 j 07:33	13°♒53'57	-8°32'45	
min. Earth dist.	-7701 Oct 03 j 01:35	13°♒51'51	44.37413 AU	
direct	-7701 Dec 22 j 13:43	12°♒51'28		
evening set	-7700 Mar 19 j 20:09	14°♒05'37		
max. Earth dist.	-7700 Mar 31 j 13:54	14°♒22'19	46.26821 AU	
conjunction	-7700 Apr 02 j 13:32	14°♒25'10	-8°02'25	
minimum elong	-7700 Apr 02 j 13:43	14°♒25'11	8°02'50	
morning rise	-7700 Apr 16 j 06:24	14°♒44'43		
	-7700 Apr 27 j 08:57	15°♒		
retrograde	-7700 Jul 12 j 20:18	15°♒58'46		
	-7700 Sep 29 j 11:06	15°℞♒		
opposition	-7700 Oct 01 j 14:10	14°♒57'27	-8°15'35	
min. Earth dist.	-7700 Oct 03 j 09:43	14°♒55'16	44.20149 AU	
direct	-7700 Dec 22 j 21:00	13°♒54'47		
	-7699 Mar 14 j 13:48	15°♒		
evening set	-7699 Mar 21 j 00:35	15°♒08'58		
max. Earth dist.	-7699 Apr 01 j 20:40	15°♒25'53	46.09503 AU	
conjunction	-7699 Apr 03 j 22:16	15°♒28'51	-7°45'45	
minimum elong	-7699 Apr 03 j 22:27	15°♒28'52	7°46'10	
morning rise	-7699 Apr 17 j 19:35	15°♒48'43		
retrograde	-7699 Jul 14 j 05:03	17°♒02'44		
opposition	-7699 Oct 02 j 20:56	16°♒01'16	-7°58'07	
min. Earth dist.	-7699 Oct 04 j 17:02	15°♒59'03	44.02497 AU	
	-7699 Dec 12 j 07:44	15°℞♒		
direct	-7699 Dec 24 j 04:52	14°♒58'24		
	-7698 Jan 05 j 02:19	15°♒		
evening set	-7698 Mar 22 j 05:05	16°♒12'39		
max. Earth dist.	-7698 Apr 03 j 04:05	16°♒29'47	45.91800 AU	
conjunction	-7698 Apr 05 j 07:04	16°♒32'51	-7°28'49	
minimum elong	-7698 Apr 05 j 07:15	16°♒32'52	7°29'13	
morning rise	-7698 Apr 19 j 08:31	16°♒53'02		
retrograde	-7698 Jul 15 j 11:20	18°♒07'03		
opposition	-7698 Oct 04 j 03:58	17°♒05'25	-7°40'21	
min. Earth dist.	-7698 Oct 06 j 02:08	17°♒03'06	43.84502 AU	
direct	-7698 Dec 25 j 13:26	16°♒02'22		
evening set	-7697 Mar 23 j 09:54	17°♒16'41		
max. Earth dist.	-7697 Apr 04 j 12:40	17°♒34'05	45.73798 AU	
conjunction	-7697 Apr 06 j 16:02	17°♒37'12	-7°11'35	
minimum elong	-7697 Apr 06 j 16:13	17°♒37'12	7°11'59	
morning rise	-7697 Apr 20 j 21:27	17°♒57'42		
retrograde	-7697 Jul 16 j 17:59	19°♒11'43		
opposition	-7697 Oct 05 j 11:00	18°♒09'57	-7°22'17	
min. Earth dist.	-7697 Oct 07 j 09:14	18°♒07'37	43.66232 AU	
direct	-7697 Dec 26 j 21:53	17°♒06'41		
evening set	-7696 Mar 23 j 15:00	18°♒21'06		
max. Earth dist.	-7696 Apr 04 j 19:29	18°♒38'41	45.55536 AU	
conjunction	-7696 Apr 07 j 01:00	18°♒41'56	-6°54'04	
minimum elong	-7696 Apr 07 j 01:10	18°♒41'57	6°54'27	
morning rise	-7696 Apr 21 j 10:28	19°♒02'45		
retrograde	-7696 Jul 17 j 05:13	20°♒16'50		
opposition	-7696 Oct 05 j 18:20	19°♒14'54	-7°03'53	
min. Earth dist.	-7696 Oct 07 j 17:57	19°♒12'30	43.47730 AU	
direct	-7696 Dec 27 j 02:08	18°♒11'27		
evening set	-7695 Mar 24 j 20:26	19°♒26'00		
max. Earth dist.	-7695 Apr 06 j 04:55	19°♒43'53	45.37042 AU	
conjunction	-7695 Apr 08 j 10:25	19°♒47'09	-6°36'16	
minimum elong	-7695 Apr 08 j 10:36	19°♒47'09	6°36'38	
morning rise	-7695 Apr 22 j 23:25	20°♒08'16		
retrograde	-7695 Jul 18 j 14:43	21°♒22'25		
opposition	-7695 Oct 07 j 01:50	20°♒20'21	-6°45'11	
min. Earth dist.	-7695 Oct 09 j 02:22	20°♒17'53	43.28998 AU	
direct	-7695 Dec 28 j 08:44	19°♒16'43		
evening set	-7694 Mar 26 j 02:22	20°♒31'26		
max. Earth dist.	-7694 Apr 07 j 12:45	20°♒49'31	45.18338 AU	
conjunction	-7694 Apr 09 j 19:52	20°♒52'53	-6°18'09	
minimum elong	-7694 Apr 09 j 20:01	20°♒52'53	6°18'31	
morning rise	-7694 Apr 24 j 12:35	21°♒14'18		
retrograde	-7694 Jul 20 j 00:53	22°♒28'32		
opposition	-7694 Oct 08 j 09:31	21°♒26'21	-6°26'10	
min. Earth dist.	-7694 Oct 10 j 10:26	21°♒23'52	43.10056 AU	
direct	-7694 Dec 29 j 16:31	20°♒22'33		
evening set	-7693 Mar 27 j 08:22	21°♒37'27		
max. Earth dist.	-7693 Apr 08 j 21:15	21°♒55'45	44.99380 AU	
conjunction	-7693 Apr 11 j 05:28	21°♒59'13	-5°59'44	
minimum elong	-7693 Apr 11 j 05:37	21°♒59'13	6°00'07	
morning rise	-7693 Apr 26 j 01:31	22°♒20'56		
retrograde	-7693 Jul 21 j 08:31	23°♒35'18		
opposition	-7693 Oct 09 j 17:31	22°♒32'58	-6°06'50	
min. Earth dist.	-7693 Oct 11 j 20:21	22°♒30'23	42.90840 AU	
direct	-7693 Dec 31 j 02:51	21°♒29'00		
evening set	-7692 Mar 27 j 15:01	22°♒44'07		
max. Earth dist.	-7692 Apr 09 j 06:36	23°♒02'40	44.80130 AU	
conjunction	-7692 Apr 11 j 15:27	23°♒06'11	-5°41'02	
minimum elong	-7692 Apr 11 j 15:36	23°♒06'11	5°41'23	
morning rise	-7692 Apr 26 j 14:45	23°♒28'11		
retrograde	-7692 Jul 21 j 16:18	24°♒42'42		
opposition	-7692 Oct 10 j 01:29	23°♒40'15	-5°47'11	
min. Earth dist.	-7692 Oct 12 j 04:39	23°♒37'37	42.71292 AU	
direct	-7692 Dec 31 j 12:31	22°♒36'05		
evening set	-7691 Mar 28 j 22:13	23°♒51'26		
max. Earth dist.	-7691 Apr 10 j 14:25	24°♒10'06	44.60498 AU	
conjunction	-7691 Apr 13 j 01:44	24°♒13'47	-5°22'03	
minimum elong	-7691 Apr 13 j 01:52	24°♒13'48	5°22'24	
morning rise	-7691 Apr 28 j 04:11	24°♒36'06		
retrograde	-7691 Jul 23 j 03:19	25°♒50'46		
opposition	-7691 Oct 11 j 09:57	24°♒48'10	-5°27'14	
min. Earth dist.	-7691 Oct 13 j 15:15	24°♒45'25	42.51349 AU	
direct	-7690 Jan 01 j 19:01	23°♒43'49		
evening set	-7690 Mar 30 j 05:37	24°♒59'23		
max. Earth dist.	-7690 Apr 12 j 00:27	25°♒18'18	44.40434 AU	
conjunction	-7690 Apr 14 j 12:15	25°♒22'01	-5°02'46	
minimum elong	-7690 Apr 14 j 12:24	25°♒22'02	5°03'05	
morning rise	-7690 Apr 29 j 17:25	25°♒44'37		
retrograde	-7690 Jul 24 j 14:14	26°♒59'28		
opposition	-7690 Oct 12 j 18:40	25°♒56'41	-5°06'58	
min. Earth dist.	-7690 Oct 15 j 01:03	25°♒53'53	42.30952 AU	
direct	-7689 Jan 03 j 02:55	24°♒52'07		
evening set	-7689 Mar 31 j 13:35	26°♒07'57		
max. Earth dist.	-7689 Apr 13 j 08:43	26°♒26'58	44.19925 AU	
conjunction	-7689 Apr 15 j 22:54	26°♒30'52	-4°43'11	

Attention, astronomical year style is used: The year -7689 in astronomical counting style is the year 7690 BCE in historical counting style.

minimum elong	-7689 Apr 15 j 23:02	26°♒30'52	4°43'32	
morning rise	-7689 May 01 j 06:58	26°♒53'43		
retrograde	-7689 Jul 26 j 03:38	28°♒08'45		
opposition	-7689 Oct 14 j 03:27	27°♒05'46	-4°46'23	
min. Earth dist.	-7689 Oct 16 j 10:50	27°♒02'55	42.10122 AU	
direct	-7688 Jan 04 j 10:16	26°♒00'57		
evening set	-7688 Mar 31 j 21:47	27°♒17'03		
max. Earth dist.	-7688 Apr 13 j 18:28	27°♒36'16	43.98966 AU	
conjunction	-7688 Apr 16 j 09:54	27°♒40'15	-4°23'20	
minimum elong	-7688 Apr 16 j 10:01	27°♒40'15	4°23'39	
morning rise	-7688 May 01 j 20:23	28°♒03'22		
retrograde	-7688 Jul 26 j 13:51	29°♒18'36		
opposition	-7688 Oct 14 j 12:38	28°♒15'24	-4°25'30	
min. Earth dist.	-7688 Oct 16 j 22:09	28°♒12'25	41.88856 AU	
direct	-7687 Jan 04 j 20:16	27°♒10'20		
evening set	-7687 Apr 02 j 06:32	28°♒26'42		
max. Earth dist.	-7687 Apr 15 j 04:38	28°♒46'05	43.77606 AU	
conjunction	-7687 Apr 17 j 21:05	28°♒50'09	-4°03'10	
minimum elong	-7687 Apr 17 j 21:11	28°♒50'10	4°03'29	
morning rise	-7687 May 03 j 09:59	29°♒13'32		
	-7687 Jun 07 j 17:19	0°♓		
retrograde	-7687 Jul 27 j 21:42	0°♓28'58		
	-7687 Sep 16 j 17:55	30°℞♒		
opposition	-7687 Oct 15 j 21:51	29°♒25'33	-4°04'18	
min. Earth dist.	-7687 Oct 18 j 07:37	29°♒22'32	41.67220 AU	
direct	-7686 Jan 06 j 08:50	28°♒20'11		
evening set	-7686 Apr 03 j 15:42	29°♒36'51		
max. Earth dist.	-7686 Apr 16 j 13:52	29°♒56'21	43.55888 AU	
	-7686 Apr 18 j 23:20	0°♓		
conjunction	-7686 Apr 19 j 08:27	0°♓00'35	-3°42'43	
minimum elong	-7686 Apr 19 j 08:34	0°♓00'35	3°43'02	
morning rise	-7686 May 04 j 23:34	0°♓24'13		
retrograde	-7686 Jul 29 j 07:38	1°♓39'52		
opposition	-7686 Oct 17 j 07:29	0°♓36'13	-3°42'46	
min. Earth dist.	-7686 Oct 19 j 19:06	0°♓33'06	41.45279 AU	
	-7686 Nov 16 j 20:22	30°℞♒		
direct	-7685 Jan 07 j 18:22	29°♒30'34		
	-7685 Feb 28 j 00:08	0°♓		
evening set	-7685 Apr 05 j 00:57	0°♓47'33		
max. Earth dist.	-7685 Apr 18 j 01:30	1°♓07'16	43.33890 AU	
conjunction	-7685 Apr 20 j 19:56	1°♓11'31	-3°21'59	
minimum elong	-7685 Apr 20 j 20:02	1°♓11'32	3°22'16	
morning rise	-7685 May 06 j 12:55	1°♓35'24		
retrograde	-7685 Jul 30 j 17:53	2°♓51'19		
opposition	-7685 Oct 18 j 17:20	1°♓47'25	-3°20'56	
min. Earth dist.	-7685 Oct 21 j 05:21	1°♓44'16	41.23083 AU	
direct	-7684 Jan 09 j 04:00	0°♓41'29		
evening set	-7684 Apr 05 j 11:00	1°♓58'49		
max. Earth dist.	-7684 Apr 18 j 11:24	2°♓18'39	43.11670 AU	
conjunction	-7684 Apr 21 j 07:42	2°♓23'02	-3°00'56	
minimum elong	-7684 Apr 21 j 07:48	2°♓23'02	3°01'13	
morning rise	-7684 May 07 j 02:38	2°♓47'10		
retrograde	-7684 Jul 31 j 07:31	4°♓03'21		
opposition	-7684 Oct 19 j 03:17	2°♓59'13	-2°58'45	
min. Earth dist.	-7684 Oct 21 j 16:07	2°♓56'00	41.00708 AU	
direct	-7683 Jan 09 j 12:06	1°♓53'00		
evening set	-7683 Apr 06 j 21:26	3°♓10'43		
max. Earth dist.	-7683 Apr 19 j 23:12	3°♓30'44	42.89266 AU	
conjunction	-7683 Apr 22 j 19:57	3°♓35'10	-2°39'35	
minimum elong	-7683 Apr 22 j 20:02	3°♓35'10	2°39'52	
morning rise	-7683 May 08 j 16:16	3°♓59'32		
retrograde	-7683 Aug 01 j 19:56	5°♓16'03		
opposition	-7683 Oct 20 j 13:48	4°♓11'40	-2°36'16	
min. Earth dist.	-7683 Oct 23 j 03:54	4°♓08'23	40.78168 AU	
direct	-7682 Jan 10 j 23:12	3°♓05'11		
evening set	-7682 Apr 08 j 08:20	4°♓23'20		
max. Earth dist.	-7682 Apr 21 j 10:47	4°♓43'31	42.66720 AU	
conjunction	-7682 Apr 24 j 08:13	4°♓48'01	-2°17'56	
minimum elong	-7682 Apr 24 j 08:17	4°♓48'02	2°18'13	
morning rise	-7682 May 10 j 06:00	5°♓12'36		
retrograde	-7682 Aug 03 j 08:38	6°♓29'29		
opposition	-7682 Oct 22 j 00:26	5°♓24'54	-2°13'26	
min. Earth dist.	-7682 Oct 24 j 14:20	5°♓21'36	40.55490 AU	
direct	-7681 Jan 12 j 11:06	4°♓18'08		
evening set	-7681 Apr 09 j 19:48	5°♓36'45		
max. Earth dist.	-7681 Apr 22 j 22:00	5°♓57'03	42.44007 AU	
conjunction	-7681 Apr 25 j 20:56	6°♓01'41	-1°56'00	
minimum elong	-7681 Apr 25 j 20:59	6°♓01'41	1°56'16	
morning rise	-7681 May 11 j 19:50	6°♓26'29		
retrograde	-7681 Aug 04 j 20:06	7°♓43'46		
opposition	-7681 Oct 23 j 11:25	6°♓38'58	-1°50'18	
min. Earth dist.	-7681 Oct 26 j 03:14	6°♓35'33	40.32645 AU	
direct	-7680 Jan 13 j 21:50	5°♓31'56		
evening set	-7680 Apr 10 j 07:46	6°♓51'04		
max. Earth dist.	-7680 Apr 23 j 11:06	7°♓11'32	42.21098 AU	
conjunction	-7680 Apr 26 j 10:03	7°♓16'13	-1°33'46	
minimum elong	-7680 Apr 26 j 10:06	7°♓16'13	1°34'02	
morning rise	-7680 May 12 j 09:50	7°♓41'14		
retrograde	-7680 Aug 05 j 07:28	8°♓58'58		
opposition	-7680 Oct 23 j 22:45	7°♓53'56	-1°26'50	
min. Earth dist.	-7680 Oct 26 j 14:53	7°♓50'29	40.09565 AU	
direct	-7679 Jan 14 j 09:42	6°♓46'39		
evening set	-7679 Apr 11 j 20:34	8°♓06'18		
max. Earth dist.	-7679 Apr 24 j 22:12	8°♓26'49	41.97916 AU	
conjunction	-7679 Apr 27 j 23:27	8°♓31'40	-1°11'14	
minimum elong	-7679 Apr 27 j 23:29	8°♓31'40	1°11'28	
morning rise	-7679 May 14 j 00:02	8°♓56'54		
retrograde	-7679 Aug 06 j 23:05	10°♓15'06		
opposition	-7679 Oct 25 j 10:26	9°♓09'50	-1°03'03	
min. Earth dist.	-7679 Oct 28 j 03:57	9°♓06'19	39.86206 AU	
direct	-7678 Jan 15 j 18:04	8°♓02'16		
evening set	-7678 Apr 13 j 09:48	9°♓22'31		
max. Earth dist.	-7678 Apr 26 j 11:43	9°♓43'10	41.74410 AU	
conjunction	-7678 Apr 29 j 13:24	9°♓48'04	-0°48'25	
minimum elong	-7678 Apr 29 j 13:25	9°♓48'04	0°48'40	
morning rise	-7678 May 15 j 14:14	10°♓13'30		
retrograde	-7678 Aug 08 j 13:08	11°♓32'12		
opposition	-7678 Oct 26 j 22:41	10°♓26'41	-0°38'58	
min. Earth dist.	-7678 Oct 29 j 17:36	10°♓23'04	39.62512 AU	
direct	-7677 Jan 17 j 05:01	9°♓18'50		
evening set	-7677 Apr 14 j 23:36	10°♓39'40		
max. Earth dist.	-7677 Apr 28 j 00:12	11°♓00'22	41.50573 AU	
conjunction	-7677 May 01 j 03:23	11°♓05'25	-0°25'19	
minimum elong	-7677 May 01 j 03:24	11°♓05'25	0°25'32	
morning rise	-7677 May 17 j 04:36	11°♓31'01		
retrograde	-7677 Aug 10 j 04:28	12°♓50'14		
opposition	-7677 Oct 28 j 11:06	11°♓44'28	-0°14'33	
min. Earth dist.	-7677 Oct 31 j 06:29	11°♓40'48	39.38489 AU	
direct	-7676 Jan 18 j 18:36	10°♓36'17		
evening set	-7676 Apr 15 j 14:07	11°♓57'45		
max. Earth dist.	-7676 Apr 28 j 13:09	12°♓18'29	41.26384 AU	

Attention, astronomical year style is used: The year -7676 in astronomical counting style is the year 7677 BCE in historical counting style.

conjunction	-7676 May 01 j 18:00	12°♓23'40	-0°01'59
minimum elong	-7676 May 01 j 18:01	12°♓23'40	0°02'12
behind sun begin	-7676 May 01 j 11:30	12°♓23'16	
behind sun end	-7676 May 02 j 00:32	12°♓24'05	
morning rise	-7676 May 17 j 19:05	12°♓49'27	
asc. node	-7676 May 31 j 17:28	13°♓10'41	
retrograde	-7676 Aug 10 j 18:25	14°♓09'12	
opposition	-7676 Oct 28 j 23:55	13°♓03'09	0°10'10
min. Earth dist.	-7676 Oct 31 j 21:22	12°♓59'21	39.14145 AU
direct	-7675 Jan 19 j 08:54	11°♓54'38	
evening set	-7675 Apr 17 j 05:15	13°♓16'44	
max. Earth dist.	-7675 Apr 30 j 03:49	13°♓37'35	41.01900 AU
conjunction	-7675 May 03 j 08:58	13°♓42'50	0°21'46
minimum elong	-7675 May 03 j 08:57	13°♓42'50	0°21'34
morning rise	-7675 May 19 j 09:44	14°♓08'46	
retrograde	-7675 Aug 12 j 07:18	15°♓29'05	
opposition	-7675 Oct 30 j 13:07	14°♓22'44	0°35'11
min. Earth dist.	-7675 Nov 02 j 10:35	14°♓18'55	38.89531 AU
direct	-7674 Jan 20 j 23:52	13°♓13'52	
evening set	-7674 Apr 18 j 20:57	14°♓36'38	
max. Earth dist.	-7674 May 01 j 16:56	14°♓57'28	40.77160 AU
conjunction	-7674 May 05 j 00:02	15°♓02'53	0°45'42
minimum elong	-7674 May 05 j 00:01	15°♓02'53	0°45'30
morning rise	-7674 May 21 j 00:17	15°♓28'59	
retrograde	-7674 Aug 13 j 22:08	16°♓49'53	
opposition	-7674 Nov 01 j 02:42	15°♓43'13	1°00'31
min. Earth dist.	-7674 Nov 04 j 01:40	15°♓39'18	38.64721 AU
direct	-7673 Jan 22 j 11:47	14°♓33'59	
evening set	-7673 Apr 20 j 13:09	15°♓57'28	
max. Earth dist.	-7673 May 03 j 08:48	16°♓18'25	40.52241 AU
conjunction	-7673 May 06 j 15:38	16°♓23'51	1°09'54
minimum elong	-7673 May 06 j 15:36	16°♓23'51	1°09'43
morning rise	-7673 May 22 j 14:54	16°♓50'04	
retrograde	-7673 Aug 15 j 13:11	18°♓11'37	
opposition	-7673 Nov 02 j 16:37	17°♓04'38	1°26'07
min. Earth dist.	-7673 Nov 05 j 16:08	17°♓00'39	38.39770 AU
direct	-7672 Jan 24 j 00:34	15°♓55'02	
evening set	-7672 Apr 21 j 06:12	17°♓19'15	
max. Earth dist.	-7672 May 03 j 23:14	17°♓40'12	40.27217 AU
conjunction	-7672 May 07 j 07:27	17°♓45'46	1°34'21
minimum elong	-7672 May 07 j 07:24	17°♓45'46	1°34'11
morning rise	-7672 May 23 j 05:45	18°♓12'06	
retrograde	-7672 Aug 16 j 07:35	19°♓34'20	
opposition	-7672 Nov 03 j 06:59	18°♓27'01	1°52'01
min. Earth dist.	-7672 Nov 06 j 06:36	18°♓23'01	38.14756 AU
direct	-7671 Jan 24 j 12:29	17°♓17'02	
evening set	-7671 Apr 22 j 23:52	18°♓42'05	
max. Earth dist.	-7671 May 05 j 15:18	19°♓03'03	40.02126 AU
conjunction	-7671 May 08 j 23:51	19°♓08'41	1°59'04
minimum elong	-7671 May 08 j 23:46	19°♓08'41	1°58'55
morning rise	-7671 May 24 j 20:30	19°♓35'07	
retrograde	-7671 Aug 18 j 00:10	20°♓58'05	
opposition	-7671 Nov 04 j 21:55	19°♓50'27	2°18'11
min. Earth dist.	-7671 Nov 07 j 22:47	19°♓46'21	37.89714 AU
direct	-7670 Jan 26 j 03:09	18°♓40'06	
evening set	-7670 Apr 24 j 18:21	20°♓06'00	
max. Earth dist.	-7670 May 07 j 08:03	20°♓27'01	39.77035 AU
conjunction	-7670 May 10 j 16:34	20°♓32'42	2°24'01
minimum elong	-7670 May 10 j 16:29	20°♓32'42	2°23'51
morning rise	-7670 May 26 j 11:32	20°♓59'13	
retrograde	-7670 Aug 19 j 17:02	22°♓22'57	
opposition	-7670 Nov 06 j 13:13	21°♓15'00	2°44'37
min. Earth dist.	-7670 Nov 09 j 13:31	21°♓10'55	37.64686 AU
direct	-7669 Jan 27 j 20:46	20°♓04'19	
evening set	-7669 Apr 26 j 13:30	21°♓31'07	
max. Earth dist.	-7669 May 08 j 23:48	21°♓52'05	39.51933 AU
conjunction	-7669 May 12 j 09:40	21°♓57'54	2°49'11
minimum elong	-7669 May 12 j 09:34	21°♓57'53	2°49'03
morning rise	-7669 May 28 j 02:35	22°♓24'29	
retrograde	-7669 Aug 21 j 10:21	23°♓49'03	
opposition	-7669 Nov 08 j 05:03	22°♓40'48	3°11'18
min. Earth dist.	-7669 Nov 11 j 06:48	22°♓36'36	37.39653 AU
direct	-7668 Jan 29 j 12:12	21°♓29'45	
evening set	-7668 Apr 27 j 09:34	22°♓57'31	
max. Earth dist.	-7668 May 09 j 18:08	23°♓18'31	39.26797 AU
conjunction	-7668 May 13 j 03:30	23°♓24'21	3°14'34
minimum elong	-7668 May 13 j 03:23	23°♓24'21	3°14'27
morning rise	-7668 May 28 j 17:53	23°♓50'59	
retrograde	-7668 Aug 22 j 02:37	25°♓16'26	
opposition	-7668 Nov 08 j 21:18	24°♓07'53	3°38'14
min. Earth dist.	-7668 Nov 11 j 23:05	24°♓03'40	37.14562 AU
direct	-7667 Jan 30 j 04:48	22°♓56'29	
evening set	-7667 Apr 29 j 06:45	24°♓25'16	
max. Earth dist.	-7667 May 11 j 10:43	24°♓46'07	39.01570 AU
conjunction	-7667 May 14 j 21:45	24°♓52'08	3°40'10
minimum elong	-7667 May 14 j 21:37	24°♓52'07	3°40'04
morning rise	-7667 May 30 j 09:31	25°♓18'48	
retrograde	-7667 Aug 23 j 21:58	26°♓45'10	
opposition	-7667 Nov 10 j 14:13	25°♓36'18	4°05'23
min. Earth dist.	-7667 Nov 13 j 16:57	25°♓32'01	36.89380 AU
direct	-7666 Jan 31 j 18:50	24°♓24'32	
evening set	-7666 May 01 j 04:30	25°♓54'22	
max. Earth dist.	-7666 May 13 j 05:32	26°♓15'12	38.76198 AU
conjunction	-7666 May 16 j 16:34	26°♓21'15	4°05'58
minimum elong	-7666 May 16 j 16:25	26°♓21'14	4°05'53
morning rise	-7666 Jun 01 j 00:59	26°♓47'55	
retrograde	-7666 Aug 25 j 17:23	28°♓15'17	
opposition	-7666 Nov 12 j 07:50	27°♓06'04	4°32'46
min. Earth dist.	-7666 Nov 15 j 11:41	27°♓01'42	36.64043 AU
direct	-7665 Feb 02 j 10:41	25°♓53'55	
evening set	-7665 May 03 j 03:26	27°♓24'52	
max. Earth dist.	-7665 May 14 j 23:44	27°♓45'32	38.50671 AU
conjunction	-7665 May 18 j 11:52	27°♓51'43	4°31'57
minimum elong	-7665 May 18 j 11:42	27°♓51'43	4°31'52
morning rise	-7665 Jun 02 j 16:57	28°♓18'22	
retrograde	-7665 Aug 27 j 14:51	29°♓46'46	
opposition	-7665 Nov 14 j 01:42	28°♓37'11	5°00'22
min. Earth dist.	-7665 Nov 17 j 05:33	28°♓32'48	36.38559 AU
direct	-7664 Feb 04 j 03:30	27°♓24'38	
evening set	-7664 May 04 j 03:12	28°♓56'45	
max. Earth dist.	-7664 May 15 j 18:35	29°♓17'14	38.24966 AU
conjunction	-7664 May 19 j 07:53	29°♓23'33	4°58'07
minimum elong	-7664 May 19 j 07:42	29°♓23'32	4°58'03
morning rise	-7664 Jun 03 j 08:59	29°♓50'09	
	-7664 Jun 09 j 02:23	0°♈	
retrograde	-7664 Aug 28 j 11:15	1°♈19'36	
opposition	-7664 Nov 14 j 20:25	0°♈09'40	5°28'09
min. Earth dist.	-7664 Nov 18 j 01:59	0°♈05'08	36.12922 AU
	-7664 Nov 21 j 18:27	30°℞♓	
direct	-7663 Feb 04 j 22:34	28°♓56'41	
	-7663 Apr 18 j 05:59	0°♈	
evening set	-7663 May 06 j 03:58	0°♈30'00	

Attention, astronomical year style is used: The year -7663 in astronomical counting style is the year 7664 BCE in historical counting style.

max. Earth dist.	-7663 May 17 j 15:13	0°♈50'22	37.99127 AU
conjunction	-7663 May 21 j 04:20	0°♈56'44	5°24'25
minimum elong	-7663 May 21 j 04:08	0°♈56'43	5°24'22
morning rise	-7663 Jun 05 j 01:07	1°♈23'15	
retrograde	-7663 Aug 30 j 07:31	2°♈53'48	
opposition	-7663 Nov 16 j 15:34	1°♈43'29	5°56'06
min. Earth dist.	-7663 Nov 19 j 20:50	1°♈38'57	35.87179 AU
direct	-7662 Feb 06 j 19:39	0°♈30'04	
evening set	-7662 May 08 j 05:42	2°♈04'39	
max. Earth dist.	-7662 May 19 j 10:34	2°♈24'44	37.73196 AU
conjunction	-7662 May 23 j 01:17	2°♈31'17	5°50'51
minimum elong	-7662 May 23 j 01:04	2°♈31'16	5°50'49
morning rise	-7662 Jun 06 j 17:25	2°♈57'41	
retrograde	-7662 Sep 01 j 04:58	4°♈29'25	
opposition	-7662 Nov 18 j 11:22	3°♈18'41	6°24'12
min. Earth dist.	-7662 Nov 21 j 17:50	3°♈14'03	35.61407 AU
direct	-7661 Feb 08 j 13:45	2°♈04'50	
evening set	-7661 May 10 j 08:10	3°♈40'43	
max. Earth dist.	-7661 May 21 j 08:47	4°♈00'39	37.47249 AU
conjunction	-7661 May 24 j 22:44	4°♈07'12	6°17'23
minimum elong	-7661 May 24 j 22:29	4°♈07'11	6°17'22
morning rise	-7661 Jun 08 j 09:37	4°♈33'28	
retrograde	-7661 Sep 03 j 00:48	6°♈06'26	
opposition	-7661 Nov 20 j 07:47	4°♈55'18	6°52'25
min. Earth dist.	-7661 Nov 23 j 14:11	4°♈50'38	35.35651 AU
direct	-7660 Feb 10 j 10:07	3°♈41'00	
evening set	-7660 May 11 j 11:56	5°♈18'16	
max. Earth dist.	-7660 May 22 j 05:44	5°♈37'53	37.21354 AU
conjunction	-7660 May 25 j 20:42	5°♈44'35	6°44'00
minimum elong	-7660 May 25 j 20:27	5°♈44'33	6°44'00
morning rise	-7660 Jun 09 j 02:08	6°♈10'40	
retrograde	-7660 Sep 04 j 00:30	7°♈44'56	
opposition	-7660 Nov 21 j 04:40	6°♈33'24	7°20'43
min. Earth dist.	-7660 Nov 24 j 11:05	6°♈28'42	35.10009 AU
direct	-7659 Feb 11 j 04:21	5°♈18'38	
evening set	-7659 May 13 j 16:38	6°♈57'22	
max. Earth dist.	-7659 May 24 j 05:02	7°♈16'46	36.95575 AU
conjunction	-7659 May 27 j 19:26	7°♈23'28	7°10'39
minimum elong	-7659 May 27 j 19:10	7°♈23'27	7°10'39
morning rise	-7659 Jun 10 j 18:37	7°♈49'20	
retrograde	-7659 Sep 05 j 23:44	9°♈25'00	
opposition	-7659 Nov 23 j 02:33	8°♈13'03	7°49'03
min. Earth dist.	-7659 Nov 26 j 09:33	8°♈08'18	34.84528 AU
direct	-7658 Feb 12 j 23:52	6°♈57'51	
evening set	-7658 May 15 j 22:25	8°♈38'08	
max. Earth dist.	-7658 May 26 j 04:17	8°♈57'13	36.69992 AU
conjunction	-7658 May 29 j 18:28	9°♈03'58	7°37'18
minimum elong	-7658 May 29 j 18:11	9°♈03'57	7°37'19
morning rise	-7658 Jun 12 j 11:11	9°♈29'35	
retrograde	-7658 Sep 08 j 01:11	11°♈06'42	
opposition	-7658 Nov 25 j 00:54	9°♈54'22	8°17'24
min. Earth dist.	-7658 Nov 28 j 06:51	9°♈49'39	34.59270 AU
direct	-7657 Feb 14 j 22:07	8°♈38'45	
evening set	-7657 May 18 j 05:22	10°♈20'39	
max. Earth dist.	-7657 May 28 j 03:49	10°♈39'21	36.44614 AU
conjunction	-7657 May 31 j 18:22	10°♈46'12	8°03'55
minimum elong	-7657 May 31 j 18:04	10°♈46'10	8°03'57
morning rise	-7657 Jun 14 j 03:58	11°♈11'31	
retrograde	-7657 Sep 10 j 03:03	12°♈50'11	
opposition	-7657 Nov 26 j 23:57	11°♈37'27	8°45'44
min. Earth dist.	-7657 Nov 30 j 06:50	11°♈32'39	34.34236 AU
direct	-7656 Feb 16 j 20:47	10°♈21'26	
evening set	-7656 May 19 j 13:39	12°♈05'03	
max. Earth dist.	-7656 May 29 j 05:30	12°♈23'25	36.19451 AU
conjunction	-7656 Jun 01 j 18:59	12°♈30'15	8°30'29
minimum elong	-7656 Jun 01 j 18:40	12°♈30'14	8°30'32
morning rise	-7656 Jun 14 j 20:57	12°♈55'13	
retrograde	-7656 Sep 11 j 04:49	14°♈35'30	
opposition	-7656 Nov 27 j 23:49	13°♈22'25	9°14'00
min. Earth dist.	-7656 Dec 01 j 05:49	13°♈17'38	34.09400 AU
direct	-7655 Feb 17 j 21:35	12°♈05'59	
evening set	-7655 May 21 j 23:11	13°♈51'24	
max. Earth dist.	-7655 May 31 j 05:47	14°♈09'14	35.94451 AU
conjunction	-7655 Jun 03 j 20:11	14°♈16'12	8°56'57
minimum elong	-7655 Jun 03 j 19:50	14°♈16'10	8°57'01
morning rise	-7655 Jun 16 j 14:03	14°♈40'47	
retrograde	-7655 Sep 13 j 06:55	16°♈22'46	
opposition	-7655 Nov 30 j 00:31	15°♈09'18	9°42'10
min. Earth dist.	-7655 Dec 03 j 07:14	15°♈04'27	33.84735 AU
direct	-7654 Feb 19 j 19:51	13°♈52'27	
evening set	-7654 May 24 j 10:03	15°♈39'45	
max. Earth dist.	-7654 Jun 02 j 09:01	15°♈57'07	35.69589 AU
conjunction	-7654 Jun 05 j 22:17	16°♈04'05	9°23'18
minimum elong	-7654 Jun 05 j 21:56	16°♈04'03	9°23'24
morning rise	-7654 Jun 18 j 07:14	16°♈28'12	
retrograde	-7654 Sep 15 j 07:48	18°♈11'58	
opposition	-7654 Dec 02 j 02:04	16°♈58'07	10°10'13
min. Earth dist.	-7654 Dec 05 j 08:39	16°♈53'14	33.60200 AU
direct	-7653 Feb 21 j 20:14	15°♈40'50	
evening set	-7653 May 26 j 22:17	17°♈30'05	
max. Earth dist.	-7653 Jun 04 j 10:45	17°♈46'48	35.44848 AU
conjunction	-7653 Jun 08 j 00:54	17°♈53'54	9°49'29
minimum elong	-7653 Jun 08 j 00:31	17°♈53'52	9°49'35
morning rise	-7653 Jun 20 j 00:38	18°♈17'30	
retrograde	-7653 Sep 17 j 12:35	20°♈03'08	
opposition	-7653 Dec 04 j 04:20	18°♈48'52	10°38'06
min. Earth dist.	-7653 Dec 07 j 10:41	18°♈43'58	33.35793 AU
direct	-7652 Feb 23 j 19:09	17°♈31'08	
evening set	-7652 May 28 j 11:57	19°♈22'24	
max. Earth dist.	-7652 Jun 05 j 14:58	19°♈38'30	35.20210 AU
conjunction	-7652 Jun 09 j 04:33	19°♈45'37	10°15'28
minimum elong	-7652 Jun 09 j 04:10	19°♈45'36	10°15'36
morning rise	-7652 Jun 20 j 18:05	20°♈08'38	
retrograde	-7652 Sep 18 j 16:16	21°♈56'13	
opposition	-7652 Dec 05 j 07:31	20°♈41'31	11°05'46
min. Earth dist.	-7652 Dec 08 j 14:34	20°♈36'33	33.11507 AU
direct	-7651 Feb 24 j 19:55	19°♈23'19	
evening set	-7651 May 31 j 03:13	21°♈16'41	
max. Earth dist.	-7651 Jun 07 j 19:24	21°♈32'04	34.95727 AU
conjunction	-7651 Jun 11 j 08:47	21°♈39'15	10°41'12
minimum elong	-7651 Jun 11 j 08:23	21°♈39'12	10°41'20
morning rise	-7651 Jun 22 j 11:38	22°♈01'36	
retrograde	-7651 Sep 20 j 23:13	23°♈51'11	
opposition	-7651 Dec 07 j 11:28	22°♈36'02	11°33'10
min. Earth dist.	-7651 Dec 10 j 17:27	22°♈31'06	32.87408 AU
direct	-7650 Feb 27 j 00:09	21°♈17'21	
evening set	-7650 Jun 02 j 19:35	23°♈12'55	
max. Earth dist.	-7650 Jun 10 j 00:17	23°♈27'29	34.71431 AU
conjunction	-7650 Jun 13 j 13:39	23°♈34'43	11°06'38
minimum elong	-7650 Jun 13 j 13:15	23°♈34'41	11°06'47

Attention, astronomical year style is used: The year -7650 in astronomical counting style is the year 7651 BCE in historical counting style.

morning rise	-7650 Jun 24 j 05:00	23°♈56'21	
retrograde	-7650 Sep 23 j 06:21	25°♈48'02	
opposition	-7650 Dec 09 j 16:20	24°♈32'24	12°00'14
min. Earth dist.	-7650 Dec 12 j 23:02	24°♈27'24	32.63546 AU
direct	-7649 Mar 01 j 03:39	23°♈13'15	
evening set	-7649 Jun 05 j 13:46	25°♈11'05	
max. Earth dist.	-7649 Jun 12 j 07:18	25°♈24'52	34.47415 AU
conjunction	-7649 Jun 15 j 19:18	25°♈32'04	11°31'41
minimum elong	-7649 Jun 15 j 18:52	25°♈32'01	11°31'50
morning rise	-7649 Jun 25 j 22:17	25°♈52'51	
retrograde	-7649 Sep 25 j 12:50	27°♈46'44	
opposition	-7649 Dec 11 j 21:45	26°♈30'38	12°26'53
min. Earth dist.	-7649 Dec 15 j 02:57	26°♈25'42	32.40000 AU
direct	-7648 Mar 02 j 09:46	25°♈10'59	
evening set	-7648 Jun 07 j 09:25	27°♈11'12	
max. Earth dist.	-7648 Jun 13 j 13:28	27°♈23'58	34.23745 AU
conjunction	-7648 Jun 17 j 01:38	27°♈31'15	11°56'18
minimum elong	-7648 Jun 17 j 01:13	27°♈31'13	11°56'30
morning rise	-7648 Jun 26 j 15:34	27°♈51'08	
retrograde	-7648 Sep 26 j 21:07	29°♈47'19	
opposition	-7648 Dec 13 j 04:15	28°♈30'45	12°53'03
min. Earth dist.	-7648 Dec 16 j 09:29	28°♈25'46	32.16863 AU
direct	-7647 Mar 04 j 14:54	27°♈10'36	
evening set	-7647 Jun 10 j 06:46	29°♈13'19	
max. Earth dist.	-7647 Jun 15 j 22:50	29°♈25'11	34.00519 AU
conjunction	-7647 Jun 19 j 08:40	29°♈32'20	12°20'24
minimum elong	-7647 Jun 19 j 08:14	29°♈32'18	12°20'36
morning rise	-7647 Jun 28 j 08:17	29°♈51'11	
	-7647 Jul 02 j 14:20	0°♉	
retrograde	-7647 Sep 29 j 04:32	1°♉49'48	
opposition	-7647 Dec 15 j 11:41	0°♉32'47	13°18'38
min. Earth dist.	-7647 Dec 18 j 15:29	0°♉27'51	31.94207 AU
	-7646 Jan 06 j 03:39	30°℞♈	
direct	-7646 Mar 06 j 22:18	29°♈12'10	
	-7646 May 03 j 08:14	0°♉	
evening set	-7646 Jun 13 j 05:57	1°♉17'31	
max. Earth dist.	-7646 Jun 18 j 06:49	1°♉28'10	33.77824 AU
conjunction	-7646 Jun 21 j 16:23	1°♉35'22	12°43'54
minimum elong	-7646 Jun 21 j 15:57	1°♉35'20	12°44'08
morning rise	-7646 Jun 30 j 00:54	1°♉53'04	
retrograde	-7646 Oct 01 j 14:16	3°♉54'16	
opposition	-7646 Dec 17 j 19:50	2°♉36'48	13°43'35
min. Earth dist.	-7646 Dec 20 j 22:30	2°♉31'55	31.72128 AU
direct	-7645 Mar 09 j 03:54	1°♉15'45	
evening set	-7645 Jun 16 j 07:07	3°♉23'54	
max. Earth dist.	-7645 Jun 20 j 17:40	3°♉33'22	33.55712 AU
conjunction	-7645 Jun 24 j 01:00	3°♉40'27	13°06'44
minimum elong	-7645 Jun 24 j 00:33	3°♉40'25	13°06'58
morning rise	-7645 Jul 01 j 16:56	3°♉56'51	
retrograde	-7645 Oct 03 j 22:25	6°♉00'47	
opposition	-7645 Dec 20 j 05:03	4°♉42'55	14°07'47
min. Earth dist.	-7645 Dec 23 j 06:48	4°♉38'04	31.50634 AU
direct	-7644 Mar 10 j 11:05	3°♉21'27	
evening set	-7644 Jun 18 j 10:43	5°♉32'34	
max. Earth dist.	-7644 Jun 22 j 03:53	5°♉40'35	33.34213 AU
conjunction	-7644 Jun 25 j 10:17	5°♉47'40	13°28'50
minimum elong	-7644 Jun 25 j 09:51	5°♉47'37	13°29'06
morning rise	-7644 Jul 02 j 08:17	6°♉02'37	
retrograde	-7644 Oct 05 j 10:26	8°♉09'27	
opposition	-7644 Dec 21 j 15:00	6°♉51'11	14°31'11
min. Earth dist.	-7644 Dec 24 j 14:49	6°♉46'27	31.29751 AU
direct	-7643 Mar 12 j 18:26	5°♉29'20	
evening set	-7643 Jun 21 j 16:59	7°♉43'39	
max. Earth dist.	-7643 Jun 24 j 15:54	7°♉50'05	33.13305 AU
conjunction	-7643 Jun 27 j 20:32	7°♉57'04	13°50'07
minimum elong	-7643 Jun 27 j 20:06	7°♉57'02	13°50'23
morning rise	-7643 Jul 03 j 22:34	8°♉10'22	
retrograde	-7643 Oct 07 j 21:57	10°♉20'21	
opposition	-7643 Dec 24 j 02:12	9°♉01'42	14°53'42
min. Earth dist.	-7643 Dec 27 j 01:42	8°♉56'57	31.09452 AU
direct	-7642 Mar 15 j 02:09	7°♉39'29	
evening set	-7642 Jun 25 j 02:46	9°♉57'15	
max. Earth dist.	-7642 Jun 27 j 04:32	10°♉01'49	32.92989 AU
conjunction	-7642 Jun 30 j 07:21	10°♉08'42	14°10'32
minimum elong	-7642 Jun 30 j 06:55	10°♉08'40	14°10'50
morning rise	-7642 Jul 05 j 10:40	10°♉20'03	
retrograde	-7642 Oct 10 j 12:06	12°♉33'26	
opposition	-7642 Dec 26 j 14:10	11°♉14'25	15°15'16
min. Earth dist.	-7642 Dec 29 j 11:26	11°♉09'48	30.89721 AU
direct	-7641 Mar 17 j 14:03	9°♉51'51	
evening set	-7641 Jun 28 j 17:47	12°♉13'31	
max. Earth dist.	-7641 Jun 29 j 17:15	12°♉15'41	32.73224 AU
conjunction	-7641 Jul 02 j 19:10	12°♉22'33	14°30'01
minimum elong	-7641 Jul 02 j 18:44	12°♉22'30	14°30'19
morning rise	-7641 Jul 06 j 19:26	12°♉31'29	
retrograde	-7641 Oct 13 j 02:51	14°♉48'44	
opposition	-7641 Dec 29 j 03:02	13°♉29'20	15°35'48
min. Earth dist.	-7640 Jan 01 j 00:04	13°♉24'43	30.70541 AU
direct	-7640 Mar 19 j 00:53	12°♉06'24	
evening set	-7640 Jul 01 j 19:41	14°♉32'55	
max. Earth dist.	-7640 Jul 01 j 08:15	14°♉31'51	32.54029 AU
conjunction	-7640 Jul 04 j 07:48	14°♉38'33	14°48'30
minimum elong	-7640 Jul 04 j 07:23	14°♉38'30	14°48'49
morning rise	-7640 Jul 06 j 19:00	14°♉44'06	
	-7640 Jul 13 j 21:11	15°♉	
retrograde	-7640 Oct 14 j 17:15	17°♉06'08	
opposition	-7640 Dec 30 j 17:00	15°♉46'23	15°55'15
min. Earth dist.	-7639 Jan 02 j 11:45	15°♉41'53	30.51912 AU
	-7639 Jan 30 j 03:01	15°℞♉	
direct	-7639 Mar 21 j 14:33	14°♉23'06	
	-7639 May 09 j 05:55	15°♉	
max. Earth dist.	-7639 Jul 03 j 22:12	16°♉49'56	32.35409 AU
conjunction	-7639 Jul 06 j 21:01	16°♉56'37	15°05'53
minimum elong	-7639 Jul 06 j 20:36	16°♉56'35	15°06'12
retrograde	-7639 Oct 17 j 09:48	19°♉25'35	
opposition	-7638 Jan 02 j 07:54	18°♉05'27	16°13'29
min. Earth dist.	-7638 Jan 05 j 01:39	18°♉01'00	30.33878 AU
direct	-7638 Mar 24 j 03:24	16°♉41'49	
max. Earth dist.	-7638 Jul 06 j 15:20	19°♉10'13	32.17417 AU
conjunction	-7638 Jul 09 j 11:07	19°♉16'40	15°22'06
minimum elong	-7638 Jul 09 j 10:44	19°♉16'38	15°22'27
retrograde	-7638 Oct 20 j 01:26	21°♉46'58	
opposition	-7637 Jan 04 j 23:32	20°♉26'27	16°30'27
min. Earth dist.	-7637 Jan 07 j 15:23	20°♉22'06	30.16475 AU
direct	-7637 Mar 26 j 18:52	19°♉02'28	
max. Earth dist.	-7637 Jul 09 j 06:58	21°♉32'11	32.00115 AU
conjunction	-7637 Jul 12 j 01:42	21°♉38'36	15°37'03
minimum elong	-7637 Jul 12 j 01:20	21°♉38'33	15°37'24
retrograde	-7637 Oct 22 j 18:21	24°♉10'10	
opposition	-7636 Jan 07 j 15:59	22°♉49'16	16°46'01
min. Earth dist.	-7636 Jan 10 j 05:50	22°♉45'03	29.99785 AU

Attention, astronomical year style is used: The year -7636 in astronomical counting style is the year 7637 BCE in historical counting style.

direct	-7636 Mar 28 j 09:20	21°♉24'56		
max. Earth dist.	-7636 Jul 11 j 01:36	23°♉56'08	31.83566 AU	
conjunction	-7636 Jul 13 j 17:02	24°♉02'17	15°50'39	
minimum elong	-7636 Jul 13 j 16:42	24°♉02'15	15°51'03	
retrograde	-7636 Oct 24 j 09:33	26°♉35'05		
opposition	-7635 Jan 09 j 09:24	25°♉13'49	17°00'05	
min. Earth dist.	-7635 Jan 11 j 21:25	25°♉09'41	29.83870 AU	
direct	-7635 Mar 31 j 01:15	23°♉49'10		
max. Earth dist.	-7635 Jul 13 j 19:17	26°♉21'38	31.67881 AU	
conjunction	-7635 Jul 16 j 08:48	26°♉27'38	16°02'48	
minimum elong	-7635 Jul 16 j 08:29	26°♉27'37	16°03'12	
retrograde	-7635 Oct 27 j 04:44	29°♉01'37		
opposition	-7634 Jan 12 j 03:30	27°♉40'00	17°12'34	
min. Earth dist.	-7634 Jan 14 j 12:15	27°♉36'05	29.68847 AU	
direct	-7634 Apr 02 j 16:52	26°♉15'03		
max. Earth dist.	-7634 Jul 16 j 15:06	28°♉48'53	31.53132 AU	
conjunction	-7634 Jul 19 j 01:10	28°♉54'36	16°13'25	
minimum elong	-7634 Jul 19 j 00:54	28°♉54'34	16°13'51	
	-7634 Aug 16 j 14:15	0°♊		
retrograde	-7634 Oct 29 j 21:12	1°♊29'43		
opposition	-7633 Jan 14 j 22:29	0°♊07'46	17°23'21	
min. Earth dist.	-7633 Jan 17 j 05:26	0°♊03'58	29.54774 AU	
	-7633 Jan 19 j 14:52	30°℞♉		
direct	-7633 Apr 05 j 09:05	28°♉42'34		
	-7633 Jun 14 j 21:12	0°♊		
max. Earth dist.	-7633 Jul 19 j 10:53	1°♊17'39	31.39409 AU	
conjunction	-7633 Jul 21 j 18:06	1°♊23'07	16°22'25	
minimum elong	-7633 Jul 21 j 17:50	1°♊23'06	16°22'50	
retrograde	-7633 Nov 01 j 16:21	3°♊59'18		
opposition	-7632 Jan 17 j 17:52	2°♊37'05	17°32'21	
min. Earth dist.	-7632 Jan 19 j 20:59	2°♊33'32	29.41715 AU	
direct	-7632 Apr 07 j 03:46	1°♊11'40		
max. Earth dist.	-7632 Jul 21 j 07:32	3°♊47'58	31.26732 AU	
conjunction	-7632 Jul 23 j 11:40	3°♊53'10	16°29'43	
minimum elong	-7632 Jul 23 j 11:28	3°♊53'09	16°30'09	
retrograde	-7632 Nov 03 j 11:34	6°♊30'22		
opposition	-7631 Jan 19 j 14:19	5°♊07'53	17°39'30	
min. Earth dist.	-7631 Jan 21 j 15:33	5°♊04'28	29.29689 AU	
direct	-7631 Apr 09 j 20:25	3°♊42'19		
max. Earth dist.	-7631 Jul 24 j 05:03	6°♊19'48	31.15129 AU	
conjunction	-7631 Jul 26 j 05:32	6°♊24'40	16°35'16	
minimum elong	-7631 Jul 26 j 05:21	6°♊24'39	16°35'43	
retrograde	-7631 Nov 06 j 08:16	9°♊02'49		
opposition	-7630 Jan 22 j 11:18	7°♊40'08	17°44'45	
min. Earth dist.	-7630 Jan 24 j 08:29	7°♊37'00	29.18685 AU	
direct	-7630 Apr 12 j 16:54	6°♊14'27		
max. Earth dist.	-7630 Jul 27 j 02:04	8°♊52'56	31.04559 AU	
conjunction	-7630 Jul 28 j 23:59	8°♊57'33	16°39'02	
minimum elong	-7630 Jul 28 j 23:52	8°♊57'33	16°39'30	
retrograde	-7630 Nov 09 j 05:39	11°♊36'35		
opposition	-7629 Jan 25 j 08:50	10°♊13'42	17°48'02	
min. Earth dist.	-7629 Jan 27 j 04:00	10°♊10'42	29.08686 AU	
direct	-7629 Apr 15 j 12:16	8°♊47'55		
max. Earth dist.	-7629 Jul 30 j 00:58	11°♊27'27	30.95012 AU	
conjunction	-7629 Jul 31 j 18:54	11°♊31'42	16°40'58	
minimum elong	-7629 Jul 31 j 18:48	11°♊31'41	16°41'26	
retrograde	-7629 Nov 12 j 02:41	14°♊11'29		
opposition	-7628 Jan 28 j 07:01	12°♊48'27	17°49'21	
min. Earth dist.	-7628 Jan 29 j 22:37	12°♊45'41	28.99644 AU	
direct	-7628 Apr 17 j 10:21	11°♊22'36		
max. Earth dist.	-7628 Jul 31 j 22:23	14°♊02'53	30.86444 AU	
conjunction	-7628 Aug 02 j 14:03	14°♊06'55	16°41'03	
minimum elong	-7628 Aug 02 j 14:00	14°♊06'55	16°41'32	
retrograde	-7628 Nov 14 j 01:03	16°♊47'24		
opposition	-7627 Jan 30 j 05:46	15°♊24'12	17°48'39	
min. Earth dist.	-7627 Jan 31 j 18:48	15°♊21'37	28.91558 AU	
direct	-7627 Apr 20 j 06:37	13°♊58'17		
max. Earth dist.	-7627 Aug 03 j 22:18	16°♊39'26	30.78860 AU	
conjunction	-7627 Aug 05 j 09:42	16°♊43'02	16°39'16	
minimum elong	-7627 Aug 05 j 09:41	16°♊43'02	16°39'45	
retrograde	-7627 Nov 16 j 22:48	19°♊24'04		
opposition	-7626 Feb 02 j 04:57	18°♊00'44	17°45'55	
min. Earth dist.	-7626 Feb 03 j 14:48	17°♊58'21	28.84409 AU	
direct	-7626 Apr 23 j 06:15	16°♊34'47		
max. Earth dist.	-7626 Aug 06 j 20:05	19°♊16'26	30.72258 AU	
conjunction	-7626 Aug 08 j 05:18	19°♊19'49	16°35'34	
minimum elong	-7626 Aug 08 j 05:21	19°♊19'50	16°36'04	
retrograde	-7626 Nov 19 j 21:21	22°♊01'19		
opposition	-7625 Feb 05 j 04:20	20°♊37'50	17°41'08	
min. Earth dist.	-7625 Feb 06 j 10:49	20°♊35'42	28.78221 AU	
direct	-7625 Apr 26 j 04:15	19°♊11'52		
max. Earth dist.	-7625 Aug 09 j 20:20	21°♊54'07	30.66650 AU	
conjunction	-7625 Aug 11 j 01:17	21°♊57'05	16°29'58	
minimum elong	-7625 Aug 11 j 01:21	21°♊57'05	16°30'28	
retrograde	-7625 Nov 22 j 17:48	24°♊38'54		
opposition	-7624 Feb 08 j 03:58	23°♊15'19	17°34'16	
min. Earth dist.	-7624 Feb 09 j 07:43	23°♊13'22	28.73002 AU	
direct	-7624 Apr 28 j 03:29	21°♊49'20		
conjunction	-7624 Aug 12 j 21:06	24°♊34'35	16°22'27	
minimum elong	-7624 Aug 12 j 21:13	24°♊34'36	16°22'57	
max. Earth dist.	-7624 Aug 11 j 18:45	24°♊31'53	30.62086 AU	
retrograde	-7624 Nov 24 j 16:46	27°♊16'37		
opposition	-7623 Feb 10 j 03:46	25°♊52'56	17°25'20	
min. Earth dist.	-7623 Feb 11 j 03:20	25°♊51'16	28.68825 AU	
direct	-7623 May 01 j 02:22	24°♊26'57		
conjunction	-7623 Aug 15 j 16:52	27°♊12'08	16°13'00	
minimum elong	-7623 Aug 15 j 17:00	27°♊12'09	16°13'31	
max. Earth dist.	-7623 Aug 14 j 19:02	27°♊09'54	30.58609 AU	
retrograde	-7623 Nov 27 j 12:54	29°♊54'18		
opposition	-7622 Feb 13 j 03:47	28°♊30'31	17°14'18	
min. Earth dist.	-7622 Feb 14 j 00:40	28°♊29'03	28.65738 AU	
direct	-7622 May 04 j 00:59	27°♊04'35		
conjunction	-7622 Aug 18 j 12:30	29°♊49'33	16°01'37	
minimum elong	-7622 Aug 18 j 12:43	29°♊49'35	16°02'08	
max. Earth dist.	-7622 Aug 17 j 18:03	29°♊47'40	30.56300 AU	
	-7622 Aug 22 j 18:25	0°♋		
retrograde	-7622 Nov 30 j 10:03	2°♋31'43		
opposition	-7621 Feb 16 j 03:26	1°♋07'54	17°01'11	
min. Earth dist.	-7621 Feb 16 j 19:31	1°♋06'46	28.63815 AU	
	-7621 Apr 03 j 16:34	30°℞♊		
direct	-7621 May 07 j 00:25	29°♊42'03		
	-7621 Jun 08 j 07:10	0°♋		
conjunction	-7621 Aug 21 j 08:05	2°♋26'44	15°48'20	
minimum elong	-7621 Aug 21 j 08:19	2°♋26'45	15°48'51	
max. Earth dist.	-7621 Aug 20 j 17:52	2°♋25'16	30.55198 AU	
retrograde	-7621 Dec 03 j 06:18	5°♋08'49		
opposition	-7620 Feb 19 j 03:21	3°♋44'59	16°46'01	
min. Earth dist.	-7620 Feb 19 j 16:31	3°♋44'04	28.63098 AU	

Attention, astronomical year style is used: The year -7620 in astronomical counting style is the year 7621 BCE in historical counting style.

direct	-7620 May 08 j 21:47	2°♋19'16	
conjunction	-7620 Aug 23 j 03:20	5°♋03'32	15°33'09
minimum elong	-7620 Aug 23 j 03:37	5°♋03'34	15°33'40
max. Earth dist.	-7620 Aug 22 j 17:06	5°♋02'30	30.55360 AU
retrograde	-7620 Dec 05 j 03:21	7°♋45'28	
opposition	-7619 Feb 21 j 03:01	6°♋21'40	16°28'49
min. Earth dist.	-7619 Feb 21 j 11:07	6°♋21'07	28.63606 AU
direct	-7619 May 11 j 20:51	4°♋56'08	
conjunction	-7619 Aug 25 j 22:27	7°♋39'55	15°16'09
minimum elong	-7619 Aug 25 j 22:44	7°♋39'57	15°16'40
max. Earth dist.	-7619 Aug 25 j 15:58	7°♋39'15	30.56764 AU
retrograde	-7619 Dec 07 j 23:21	10°♋21'36	
opposition	-7618 Feb 24 j 02:34	8°♋57'52	16°09'40
min. Earth dist.	-7618 Feb 24 j 07:39	8°♋57'31	28.65338 AU
direct	-7618 May 14 j 18:34	7°♋32'33	
evening set	-7618 Aug 27 j 16:10	10°♋13'11	
conjunction	-7618 Aug 28 j 17:15	10°♋15'45	14°57'22
minimum elong	-7618 Aug 28 j 17:36	10°♋15'47	14°57'52
morning rise	-7618 Aug 29 j 19:03	10°♋18'23	
max. Earth dist.	-7618 Aug 28 j 15:09	10°♋15'32	30.59400 AU
retrograde	-7618 Dec 10 j 19:33	12°♋57'04	
opposition	-7617 Feb 27 j 01:46	11°♋33'28	15°48'39
min. Earth dist.	-7617 Feb 27 j 02:25	11°♋33'25	28.68230 AU
direct	-7617 May 17 j 17:21	10°♋08'24	
evening set	-7617 Aug 28 j 01:34	12°♋42'34	
conjunction	-7617 Aug 31 j 11:41	12°♋50'54	14°36'54
minimum elong	-7617 Aug 31 j 12:02	12°♋50'56	14°37'25
max. Earth dist.	-7617 Aug 31 j 12:41	12°♋51'00	30.63184 AU
morning rise	-7617 Sep 03 j 22:27	12°♋59'19	
retrograde	-7617 Dec 13 j 16:04	15°♋31'48	
opposition	-7616 Mar 01 j 00:43	14°♋08'20	15°25'50
min. Earth dist.	-7616 Feb 29 j 22:11	14°♋08'30	28.72244 AU
direct	-7616 May 19 j 13:56	12°♋43'32	
evening set	-7616 Aug 28 j 11:14	15°♋13'39	
conjunction	-7616 Sep 02 j 05:56	15°♋25'15	14°14'49
minimum elong	-7616 Sep 02 j 06:19	15°♋25'17	14°15'19
max. Earth dist.	-7616 Sep 02 j 11:27	15°♋25'49	30.68081 AU
morning rise	-7616 Sep 07 j 01:16	15°♋36'56	
retrograde	-7616 Dec 15 j 11:40	18°♋05'37	
opposition	-7615 Mar 03 j 23:24	16°♋42'17	15°01'21
min. Earth dist.	-7615 Mar 03 j 17:08	16°♋42'43	28.77309 AU
direct	-7615 May 22 j 13:45	15°♋17'47	
evening set	-7615 Aug 30 j 02:48	17°♋44'27	
conjunction	-7615 Sep 04 j 23:33	17°♋58'37	13°51'14
minimum elong	-7615 Sep 04 j 23:56	17°♋58'40	13°51'44
max. Earth dist.	-7615 Sep 05 j 07:33	17°♋59'26	30.74020 AU
morning rise	-7615 Sep 10 j 21:01	18°♋12'53	
retrograde	-7615 Dec 18 j 08:04	20°♋38'22	
opposition	-7614 Mar 06 j 21:37	19°♋15'11	14°35'16
min. Earth dist.	-7614 Mar 06 j 11:44	19°♋15'52	28.83393 AU
direct	-7614 May 25 j 10:56	17°♋50'58	
evening set	-7614 Aug 31 j 21:45	20°♋14'29	
conjunction	-7614 Sep 07 j 17:01	20°♋30'51	13°26'13
minimum elong	-7614 Sep 07 j 17:26	20°♋30'53	13°26'42
max. Earth dist.	-7614 Sep 08 j 05:21	20°♋32'05	30.80954 AU
morning rise	-7614 Sep 14 j 12:54	20°♋47'17	
retrograde	-7614 Dec 21 j 01:26	23°♋09'52	
opposition	-7613 Mar 09 j 19:12	21°♋46'51	14°07'42
min. Earth dist.	-7613 Mar 09 j 06:30	21°♋47'43	28.90428 AU
direct	-7613 May 28 j 08:43	20°♋22'55	

evening set	-7613 Sep 02 j 18:36	22°♋43'28	
conjunction	-7613 Sep 10 j 09:47	23°♋01'45	12°59'53
minimum elong	-7613 Sep 10 j 10:11	23°♋01'47	13°00'23
max. Earth dist.	-7613 Sep 11 j 00:17	23°♋03'12	30.88844 AU
morning rise	-7613 Sep 18 j 01:44	23°♋20'05	
retrograde	-7613 Dec 23 j 21:09	25°♋39'57	
opposition	-7612 Mar 11 j 16:19	24°♋17'05	13°38'46
min. Earth dist.	-7612 Mar 10 j 23:38	24°♋18'14	28.98409 AU
direct	-7612 May 30 j 06:35	22°♋53'27	
evening set	-7612 Sep 03 j 16:30	25°♋11'10	
conjunction	-7612 Sep 12 j 01:59	25°♋31'08	12°32'19
minimum elong	-7612 Sep 12 j 02:24	25°♋31'11	12°32'48
max. Earth dist.	-7612 Sep 12 j 20:46	25°♋33'00	30.97670 AU
morning rise	-7612 Sep 20 j 12:07	25°♋51'11	
retrograde	-7612 Dec 25 j 13:16	28°♋08'27	
opposition	-7611 Mar 14 j 12:58	26°♋45'45	13°08'33
min. Earth dist.	-7611 Mar 13 j 17:53	26°♋47'03	29.07321 AU
direct	-7611 Jun 02 j 03:51	25°♋22'25	
evening set	-7611 Sep 05 j 15:27	27°♋37'24	
conjunction	-7611 Sep 14 j 17:29	27°♋58'53	12°03'36
minimum elong	-7611 Sep 14 j 17:54	27°♋58'55	12°04'06
max. Earth dist.	-7611 Sep 15 j 14:48	28°♋00'59	31.07451 AU
morning rise	-7611 Sep 23 j 20:20	28°♋20'26	
	-7611 Nov 12 j 06:44	0°♌	
retrograde	-7611 Dec 28 j 05:51	0°♌35'14	
	-7610 Feb 14 j 09:27	30°℞♋	
min. Earth dist.	-7610 Mar 16 j 09:10	29°♋14'17	29.17199 AU
opposition	-7610 Mar 17 j 08:38	29°♋12'42	12°37'08
direct	-7610 Jun 05 j 00:04	27°♋49'39	
	-7610 Sep 06 j 18:03	0°♌	
evening set	-7610 Sep 07 j 14:49	0°♌02'01	
conjunction	-7610 Sep 17 j 08:21	0°♌24'51	11°33'49
minimum elong	-7610 Sep 17 j 08:46	0°♌24'54	11°34'17
max. Earth dist.	-7610 Sep 18 j 09:34	0°♌27'20	31.18197 AU
morning rise	-7610 Sep 27 j 02:40	0°♌47'46	
retrograde	-7610 Dec 30 j 20:08	3°♌00'11	
min. Earth dist.	-7609 Mar 19 j 01:55	1°♌39'35	29.28069 AU
opposition	-7609 Mar 20 j 03:46	1°♌37'50	12°04'39
direct	-7609 Jun 07 j 19:15	0°♌15'06	
evening set	-7609 Sep 09 j 14:45	2°♌24'57	
conjunction	-7609 Sep 19 j 22:24	2°♌49'00	11°03'05
minimum elong	-7609 Sep 19 j 22:49	2°♌49'03	11°03'33
max. Earth dist.	-7609 Sep 21 j 02:43	2°♌51'46	31.29958 AU
morning rise	-7609 Sep 30 j 06:55	3°♌13'08	
retrograde	-7608 Jan 02 j 10:58	5°♌23'17	
opposition	-7608 Mar 21 j 22:00	4°♌01'08	11°31'10
min. Earth dist.	-7608 Mar 20 j 15:41	4°♌03'11	29.39963 AU
direct	-7608 Jun 09 j 14:19	2°♌38'45	
evening set	-7608 Sep 10 j 15:00	4°♌46'11	
conjunction	-7608 Sep 21 j 11:50	5°♌11'19	10°31'27
minimum elong	-7608 Sep 21 j 12:14	5°♌11'22	10°31'54
max. Earth dist.	-7608 Sep 22 j 19:31	5°♌14'24	31.42745 AU
morning rise	-7608 Oct 02 j 09:41	5°♌36'33	
retrograde	-7607 Jan 03 j 23:42	7°♌44'32	
min. Earth dist.	-7607 Mar 23 j 06:42	6°♌24'50	29.52912 AU
opposition	-7607 Mar 24 j 15:43	6°♌22'38	10°56'48
direct	-7607 Jun 12 j 06:45	5°♌00'37	
evening set	-7607 Sep 12 j 15:30	7°♌05'44	
conjunction	-7607 Sep 24 j 00:35	7°♌31'51	9°59'03
minimum elong	-7607 Sep 24 j 00:59	7°♌31'53	9°59'30

Attention, astronomical year style is used: The year -7607 in astronomical counting style is the year 7608 BCE in historical counting style.

max. Earth dist.	-7607 Sep 25 j 12:00	7°♌35'15	31.56575 AU	
morning rise	-7607 Oct 05 j 10:35	7°♌58'04		
retrograde	-7606 Jan 06 j 12:03	10°♌03'57		
min. Earth dist.	-7606 Mar 25 j 19:39	8°♌44'47	29.66876 AU	
opposition	-7606 Mar 27 j 08:28	8°♌42'20	10°21'39	
direct	-7606 Jun 14 j 23:51	7°♌20'43		
evening set	-7606 Sep 14 j 16:23	9°♌23'37		
conjunction	-7606 Sep 26 j 12:37	9°♌50'37	9°25'59	
minimum elong	-7606 Sep 26 j 13:00	9°♌50'39	9°26'23	
max. Earth dist.	-7606 Sep 28 j 02:32	9°♌54'14	31.71384 AU	
morning rise	-7606 Oct 08 j 10:07	10°♌17'42		
retrograde	-7605 Jan 09 j 01:21	12°♌21'37		
min. Earth dist.	-7605 Mar 28 j 08:34	11°♌02'56	29.81822 AU	
opposition	-7605 Mar 30 j 00:26	11°♌00'18	9°45'51	
direct	-7605 Jun 17 j 13:29	9°♌39'06		
evening set	-7605 Sep 16 j 17:20	11°♌39'54		
conjunction	-7605 Sep 29 j 00:06	12°♌07'39	8°52'19	
minimum elong	-7605 Sep 29 j 00:28	12°♌07'41	8°52'45	
max. Earth dist.	-7605 Sep 30 j 17:53	12°♌11'37	31.87126 AU	
morning rise	-7605 Oct 11 j 07:54	12°♌35'31		
retrograde	-7604 Jan 11 j 12:45	14°♌37'32		
min. Earth dist.	-7604 Mar 29 j 21:08	13°♌19'21	29.97662 AU	
opposition	-7604 Mar 31 j 15:45	13°♌16'33	9°09'30	
direct	-7604 Jun 19 j 05:46	11°♌55'48		
evening set	-7604 Sep 17 j 18:30	13°♌54'34		
conjunction	-7604 Sep 30 j 10:38	14°♌22'59	8°18'12	
minimum elong	-7604 Sep 30 j 10:59	14°♌23'01	8°18'35	
max. Earth dist.	-7604 Oct 02 j 06:14	14°♌27'05	32.03713 AU	
morning rise	-7604 Oct 13 j 04:13	14°♌51'31		
	-7604 Oct 17 j 00:50	15°♌		
retrograde	-7603 Jan 13 j 02:20	16°♌51'44		
min. Earth dist.	-7603 Apr 01 j 08:25	15°♌34'05	30.14339 AU	
opposition	-7603 Apr 03 j 06:21	15°♌31'05	8°32'42	
	-7603 Apr 23 j 13:36	15°℞♌		
direct	-7603 Jun 21 j 19:20	14°♌10'47		
	-7603 Aug 16 j 15:52	15°♌		
evening set	-7603 Sep 19 j 19:48	16°♌07'37		
conjunction	-7603 Oct 02 j 20:50	16°♌36'37	7°43'41	
minimum elong	-7603 Oct 02 j 21:09	16°♌36'38	7°44'06	
max. Earth dist.	-7603 Oct 04 j 20:06	16°♌41'01	32.21065 AU	
morning rise	-7603 Oct 15 j 23:07	17°♌05'44		
retrograde	-7602 Jan 15 j 12:13	19°♌04'12		
min. Earth dist.	-7602 Apr 03 j 20:33	17°♌46'59	30.31751 AU	
opposition	-7602 Apr 05 j 20:04	17°♌43'54	7°55'35	
direct	-7602 Jun 24 j 09:06	16°♌24'02		
evening set	-7602 Sep 21 j 21:22	18°♌19'01		
conjunction	-7602 Oct 05 j 06:13	18°♌48'30	7°08'54	
minimum elong	-7602 Oct 05 j 06:32	18°♌48'31	7°09'16	
max. Earth dist.	-7602 Oct 07 j 06:53	18°♌53'00	32.39101 AU	
morning rise	-7602 Oct 18 j 16:39	19°♌18'07		
retrograde	-7601 Jan 17 j 23:32	21°♌14'55		
min. Earth dist.	-7601 Apr 06 j 06:05	19°♌58'14	30.49828 AU	
opposition	-7601 Apr 08 j 09:00	19°♌54'57	7°18'13	
direct	-7601 Jun 26 j 22:31	18°♌35'31		
evening set	-7601 Sep 23 j 22:50	20°♌28'43		
conjunction	-7601 Oct 07 j 14:56	20°♌58'36	6°33'55	
minimum elong	-7601 Oct 07 j 15:13	20°♌58'38	6°34'17	
max. Earth dist.	-7601 Oct 09 j 18:36	21°♌03'20	32.57734 AU	
morning rise	-7601 Oct 21 j 08:37	21°♌28'38		
retrograde	-7600 Jan 20 j 08:21	23°♌23'50		
min. Earth dist.	-7600 Apr 07 j 17:11	22°♌07'33	30.68501 AU	
opposition	-7600 Apr 09 j 21:18	22°♌04'11	6°40'42	
direct	-7600 Jun 28 j 12:07	20°♌45'12		
evening set	-7600 Sep 25 j 00:27	22°♌36'40		
conjunction	-7600 Oct 08 j 23:02	23°♌06'53	5°58'48	
minimum elong	-7600 Oct 08 j 23:17	23°♌06'54	5°59'09	
max. Earth dist.	-7600 Oct 11 j 04:15	23°♌11'43	32.76937 AU	
morning rise	-7600 Oct 22 j 23:16	23°♌37'14		
retrograde	-7599 Jan 21 j 17:06	25°♌30'54		
min. Earth dist.	-7599 Apr 10 j 01:24	24°♌15'06	30.87736 AU	
opposition	-7599 Apr 12 j 08:38	24°♌11'34	6°03'08	
direct	-7599 Jul 01 j 00:51	22°♌52'58		
evening set	-7599 Sep 27 j 01:56	24°♌42'47		
conjunction	-7599 Oct 11 j 06:17	25°♌13'15	5°23'38	
minimum elong	-7599 Oct 11 j 06:31	25°♌13'17	5°23'59	
max. Earth dist.	-7599 Oct 13 j 13:40	25°♌18'15	32.96661 AU	
morning rise	-7599 Oct 25 j 12:33	25°♌43'53		
retrograde	-7598 Jan 23 j 22:39	27°♌36'03		
min. Earth dist.	-7598 Apr 12 j 10:46	26°♌20'38	31.07528 AU	
opposition	-7598 Apr 14 j 19:16	26°♌17'02	5°25'33	
direct	-7598 Jul 03 j 11:13	24°♌58'50		
evening set	-7598 Sep 29 j 03:21	26°♌47'03		
conjunction	-7598 Oct 13 j 12:56	27°♌17'42	4°48'30	
minimum elong	-7598 Oct 13 j 13:09	27°♌17'43	4°48'48	
max. Earth dist.	-7598 Oct 15 j 22:42	27°♌22'53	33.16928 AU	
morning rise	-7598 Oct 28 j 00:17	27°♌48'31		
retrograde	-7597 Jan 26 j 03:16	29°♌39'16		
min. Earth dist.	-7597 Apr 14 j 17:48	28°♌24'17	31.27878 AU	
opposition	-7597 Apr 17 j 04:46	28°♌20'33	4°48'04	
direct	-7597 Jul 05 j 22:05	27°♌02'43		
evening set	-7597 Oct 01 j 04:47	28°♌49'26		
conjunction	-7597 Oct 15 j 18:40	29°♌20'13	4°13'25	
minimum elong	-7597 Oct 15 j 18:51	29°♌20'14	4°13'44	
max. Earth dist.	-7597 Oct 18 j 05:58	29°♌25'28	33.37747 AU	
morning rise	-7597 Oct 30 j 10:45	29°♌51'10		
	-7597 Nov 03 j 17:44	0°♍		
retrograde	-7596 Jan 28 j 09:37	1°♍40'34		
min. Earth dist.	-7596 Apr 16 j 00:30	0°♍26'00	31.48843 AU	
opposition	-7596 Apr 18 j 13:44	0°♍22'08	4°10'42	
	-7596 May 03 j 09:39	30°℞♌		
direct	-7596 Jul 07 j 05:19	29°♌04'42		
	-7596 Sep 05 j 23:48	0°♍		
evening set	-7596 Oct 02 j 05:51	0°♍49'59		
conjunction	-7596 Oct 16 j 23:47	1°♍20'49	3°38'29	
minimum elong	-7596 Oct 16 j 23:56	1°♍20'50	3°38'46	
max. Earth dist.	-7596 Oct 19 j 14:10	1°♍26'19	33.59165 AU	
morning rise	-7596 Oct 31 j 19:40	1°♍51'51		
retrograde	-7595 Jan 29 j 13:37	3°♍39'59		
min. Earth dist.	-7595 Apr 18 j 06:52	2°♍25'49	31.70416 AU	
opposition	-7595 Apr 20 j 21:50	2°♍21'52	3°33'33	
direct	-7595 Jul 09 j 14:40	1°♍04'50		
evening set	-7595 Oct 04 j 07:10	2°♍48'45		
conjunction	-7595 Oct 19 j 04:13	3°♍19'37	3°03'44	
minimum elong	-7595 Oct 19 j 04:21	3°♍19'37	3°04'02	
max. Earth dist.	-7595 Oct 21 j 19:37	3°♍25'08	33.81176 AU	
morning rise	-7595 Nov 03 j 03:37	3°♍50'39		
retrograde	-7594 Jan 31 j 20:18	5°♍37'34		
min. Earth dist.	-7594 Apr 20 j 11:13	4°♍23'53	31.92610 AU	
opposition	-7594 Apr 23 j 04:59	4°♍19'48	2°56'39	
direct	-7594 Jul 11 j 20:13	3°♍03'10		
evening set	-7594 Oct 06 j 08:13	4°♍45'50		

Attention, astronomical year style is used: The year -7594 in astronomical counting style is the year 7595 BCE in historical counting style.

conjunction	-7594 Oct 21 j 08:05	5°♑16'40	2°29'14
minimum elong	-7594 Oct 21 j 08:11	5°♑16'40	2°29'30
max. Earth dist.	-7594 Oct 24 j 02:28	5°♑22'23	34.03758 AU
morning rise	-7594 Nov 05 j 10:09	5°♑47'40	
retrograde	-7593 Feb 02 j 23:54	7°♑33'28	
min. Earth dist.	-7593 Apr 22 j 16:54	6°♑20'09	32.15367 AU
opposition	-7593 Apr 25 j 11:34	6°♑16'02	2°20'03
direct	-7593 Jul 14 j 02:20	4°♑59'50	
evening set	-7593 Oct 08 j 09:10	6°♑41'18	
conjunction	-7593 Oct 23 j 11:08	7°♑12'03	1°55'01
minimum elong	-7593 Oct 23 j 11:13	7°♑12'03	1°55'17
max. Earth dist.	-7593 Oct 26 j 06:36	7°♑17'49	34.26866 AU
morning rise	-7593 Nov 07 j 15:28	7°♑42'59	
retrograde	-7592 Feb 05 j 04:19	9°♑27'42	
min. Earth dist.	-7592 Apr 23 j 19:49	8°♑14'55	32.38635 AU
opposition	-7592 Apr 26 j 17:23	8°♑10'38	1°43'50
direct	-7592 Jul 15 j 08:58	6°♑54'52	
evening set	-7592 Oct 09 j 10:09	8°♑35'13	
conjunction	-7592 Oct 24 j 13:42	9°♑05'51	1°21'08
minimum elong	-7592 Oct 24 j 13:45	9°♑05'51	1°21'22
max. Earth dist.	-7592 Oct 27 j 11:22	9°♑11'45	34.50416 AU
morning rise	-7592 Nov 08 j 19:46	9°♑36'40	
retrograde	-7591 Feb 06 j 07:10	11°♑20'23	
min. Earth dist.	-7591 Apr 26 j 00:26	10°♑07'59	32.62342 AU
opposition	-7591 Apr 28 j 22:36	10°♑03'41	1°08'01
direct	-7591 Jul 17 j 15:03	8°♑48'21	
evening set	-7591 Oct 11 j 11:00	10°♑27'39	
conjunction	-7591 Oct 26 j 15:46	10°♑58'06	0°47'38
minimum elong	-7591 Oct 26 j 15:48	10°♑58'07	0°47'52
max. Earth dist.	-7591 Oct 29 j 14:46	11°♑04'05	34.74348 AU
morning rise	-7591 Nov 10 j 22:57	11°♑28'46	
retrograde	-7590 Feb 08 j 08:48	13°♑11'33	
min. Earth dist.	-7590 Apr 28 j 02:57	11°♑59'36	32.86386 AU
opposition	-7590 May 01 j 03:00	11°♑55'13	0°32'38
direct	-7590 Jul 19 j 21:07	10°♑40'18	
evening set	-7590 Oct 13 j 12:00	12°♑18'36	
conjunction	-7590 Oct 28 j 17:13	12°♑48'52	0°14'33
minimum elong	-7590 Oct 28 j 17:14	12°♑48'52	0°14'45
behind sun begin	-7590 Oct 28 j 14:28	12°♑48'39	
behind sun end	-7590 Oct 28 j 19:59	12°♑49'05	
max. Earth dist.	-7590 Oct 31 j 17:03	12°♑54'52	34.98542 AU
morning rise	-7590 Nov 13 j 01:10	13°♑19'20	
retrograde	-7589 Feb 10 j 09:42	15°♑01'14	
desc. node	-7589 Apr 09 j 12:31	14°♑18'38	
min. Earth dist.	-7589 Apr 30 j 05:55	13°♑49'40	33.10697 AU
opposition	-7589 May 03 j 06:47	13°♑45'15	-0°02'15
direct	-7589 Jul 22 j 00:11	12°♑30'46	
evening set	-7589 Oct 15 j 12:47	14°♑08'07	
conjunction	-7589 Oct 30 j 18:18	14°♑38'08	-0°18'10
minimum elong	-7589 Oct 30 j 18:17	14°♑38'08	0°17'58
max. Earth dist.	-7589 Nov 02 j 19:58	14°♑44'15	35.22950 AU
morning rise	-7589 Nov 15 j 02:16	15°♑08'22	
retrograde	-7588 Feb 12 j 09:00	16°♑49'26	
min. Earth dist.	-7588 May 01 j 08:20	15°♑38'15	33.35186 AU
opposition	-7588 May 04 j 09:58	15°♑33'48	-0°36'38
direct	-7588 Jul 23 j 04:14	14°♑19'43	
evening set	-7588 Oct 16 j 13:32	15°♑56'11	
conjunction	-7588 Oct 31 j 18:37	16°♑25'56	-0°50'20
minimum elong	-7588 Oct 31 j 18:35	16°♑25'55	0°50'10
max. Earth dist.	-7588 Nov 03 j 20:11	16°♑31'58	35.47490 AU
morning rise	-7588 Nov 16 j 02:30	16°♑55'53	
retrograde	-7587 Feb 13 j 10:47	18°♑36'10	
min. Earth dist.	-7587 May 03 j 09:23	17°♑25'22	33.59817 AU
opposition	-7587 May 06 j 12:33	17°♑20'52	-1°10'28
direct	-7587 Jul 25 j 04:56	16°♑07'08	
evening set	-7587 Oct 18 j 14:09	17°♑42'45	
conjunction	-7587 Nov 02 j 18:37	18°♑12'12	-1°22'02
minimum elong	-7587 Nov 02 j 18:34	18°♑12'12	1°21'52
max. Earth dist.	-7587 Nov 05 j 22:01	18°♑18'21	35.72132 AU
morning rise	-7587 Nov 18 j 01:43	18°♑41'52	
retrograde	-7586 Feb 15 j 09:59	20°♑21'23	
min. Earth dist.	-7586 May 05 j 11:23	19°♑10'52	33.84551 AU
opposition	-7586 May 08 j 14:17	19°♑06'24	-1°43'45
direct	-7586 Jul 27 j 07:20	17°♑53'01	
evening set	-7586 Oct 20 j 14:36	19°♑27'51	
conjunction	-7586 Nov 04 j 17:54	19°♑56'58	-1°53'13
minimum elong	-7586 Nov 04 j 17:50	19°♑56'58	1°53'05
max. Earth dist.	-7586 Nov 07 j 21:13	20°♑03'03	35.96876 AU
morning rise	-7586 Nov 19 j 23:55	20°♑26'18	
retrograde	-7585 Feb 17 j 10:49	22°♑05'06	
min. Earth dist.	-7585 May 07 j 10:39	20°♑54'57	34.09416 AU
opposition	-7585 May 10 j 15:23	20°♑50'24	-2°16'27
direct	-7585 Jul 29 j 08:45	19°♑37'22	
evening set	-7585 Oct 22 j 14:44	21°♑11'26	
conjunction	-7585 Nov 06 j 16:26	21°♑40'13	-2°23'53
minimum elong	-7585 Nov 06 j 16:21	21°♑40'12	2°23'45
max. Earth dist.	-7585 Nov 09 j 21:24	21°♑46'23	36.21738 AU
morning rise	-7585 Nov 21 j 20:56	22°♑09'12	
retrograde	-7584 Feb 19 j 09:59	23°♑47'19	
min. Earth dist.	-7584 May 08 j 11:17	22°♑37'26	34.34448 AU
opposition	-7584 May 11 j 16:02	22°♑32'55	-2°48'33
direct	-7584 Jul 30 j 09:41	21°♑20'13	
evening set	-7584 Oct 23 j 14:46	22°♑53'36	
conjunction	-7584 Nov 07 j 14:38	23°♑21'59	-2°53'59
minimum elong	-7584 Nov 07 j 14:31	23°♑21'59	2°53'52
max. Earth dist.	-7584 Nov 10 j 20:29	23°♑28'11	36.46783 AU
morning rise	-7584 Nov 22 j 17:06	23°♑50'36	
retrograde	-7583 Feb 20 j 06:12	25°♑28'05	
min. Earth dist.	-7583 May 10 j 09:24	24°♑18'36	34.59678 AU
opposition	-7583 May 13 j 15:47	24°♑13'59	-3°20'02
direct	-7583 Aug 01 j 11:26	23°♑01'38	
evening set	-7583 Oct 25 j 14:46	24°♑34'22	
conjunction	-7583 Nov 09 j 12:11	25°♑02'21	-3°23'32
minimum elong	-7583 Nov 09 j 12:04	25°♑02'21	3°23'25
max. Earth dist.	-7583 Nov 12 j 18:38	25°♑08'33	36.72017 AU
morning rise	-7583 Nov 24 j 12:31	25°♑30'34	
retrograde	-7582 Feb 22 j 02:36	27°♑07'30	
min. Earth dist.	-7582 May 12 j 08:04	25°♑58'20	34.85132 AU
opposition	-7582 May 15 j 15:07	25°♑53'42	-3°50'53
direct	-7582 Aug 03 j 11:13	24°♑41'42	
evening set	-7582 Oct 27 j 14:28	26°♑13'51	
conjunction	-7582 Nov 11 j 09:22	26°♑41'25	-3°52'29
minimum elong	-7582 Nov 11 j 09:13	26°♑41'25	3°52'24
max. Earth dist.	-7582 Nov 14 j 17:33	26°♑47'43	36.97456 AU
morning rise	-7582 Nov 26 j 06:49	27°♑09'13	
retrograde	-7581 Feb 23 j 21:36	28°♑45'38	
min. Earth dist.	-7581 May 14 j 06:05	27°♑36'48	35.10776 AU
opposition	-7581 May 17 j 13:42	27°♑32'09	-4°21'05
direct	-7581 Aug 05 j 10:57	26°♑20'31	
evening set	-7581 Oct 29 j 14:10	27°♑52'07	
conjunction	-7581 Nov 13 j 05:55	28°♑19'15	-4°20'51

Attention, astronomical year style is used: The year -7581 in astronomical counting style is the year 7582 BCE in historical counting style.

minimum elong	-7581 Nov 13 j 05:46	28°♑19'15	4°20'46
max. Earth dist.	-7581 Nov 16 j 14:01	28°♑25'29	37.23071 AU
morning rise	-7581 Nov 28 j 00:30	28°♑46'37	
	-7580 Jan 15 j 14:28	0°♎	
retrograde	-7580 Feb 25 j 19:33	0°♎22'34	
	-7580 Apr 08 j 06:39	30°℞♑	
min. Earth dist.	-7580 May 15 j 02:45	29°♑14'07	35.36602 AU
opposition	-7580 May 18 j 11:54	29°♑09'25	-4°50'38
direct	-7580 Aug 06 j 07:35	27°♑58'08	
evening set	-7580 Oct 30 j 13:34	29°♑29'15	
conjunction	-7580 Nov 14 j 02:06	29°♑55'56	-4°48'37
minimum elong	-7580 Nov 14 j 01:56	29°♑55'55	4°48'34
	-7580 Nov 16 j 06:45	0°♎	
max. Earth dist.	-7580 Nov 17 j 12:00	0°♎02'15	37.48817 AU
morning rise	-7580 Nov 28 j 17:16	0°♎22'50	
retrograde	-7579 Feb 26 j 16:16	1°♎58'22	
min. Earth dist.	-7579 May 17 j 00:52	0°♎50'12	35.62530 AU
opposition	-7579 May 20 j 09:35	0°♎45'33	-5°19'32
	-7579 Jun 25 j 01:28	30°℞♑	
direct	-7579 Aug 08 j 04:41	29°♑34'38	
	-7579 Sep 19 j 21:34	0°♎	
evening set	-7579 Nov 01 j 13:04	1°♎05'17	
conjunction	-7579 Nov 15 j 21:57	1°♎31'31	-5°15'48
minimum elong	-7579 Nov 15 j 21:46	1°♎31'30	5°15'45
max. Earth dist.	-7579 Nov 19 j 07:30	1°♎37'46	37.74632 AU
morning rise	-7579 Nov 30 j 09:26	1°♎57'57	
retrograde	-7578 Feb 28 j 14:39	3°♎33'04	
min. Earth dist.	-7578 May 18 j 20:28	2°♎25'17	35.88498 AU
opposition	-7578 May 22 j 06:28	2°♎20'35	-5°47'46
direct	-7578 Aug 10 j 00:24	1°♎10'01	
evening set	-7578 Nov 03 j 12:31	2°♎40'17	
conjunction	-7578 Nov 17 j 17:22	3°♎06'02	-5°42'22
minimum elong	-7578 Nov 17 j 17:10	3°♎06'01	5°42'20
max. Earth dist.	-7578 Nov 21 j 03:43	3°♎12'17	38.00426 AU
morning rise	-7578 Dec 02 j 00:54	3°♎31'58	
retrograde	-7577 Mar 02 j 10:18	5°♎06'44	
min. Earth dist.	-7577 May 20 j 17:55	3°♎59'12	36.14434 AU
opposition	-7577 May 24 j 03:11	3°♎54'34	-6°15'21
direct	-7577 Aug 11 j 20:36	2°♎44'20	
evening set	-7577 Nov 05 j 11:38	4°♎14'13	
conjunction	-7577 Nov 19 j 12:21	4°♎39'28	-6°08'20
minimum elong	-7577 Nov 19 j 12:09	4°♎39'27	6°08'20
max. Earth dist.	-7577 Nov 22 j 23:05	4°♎45'43	38.26150 AU
morning rise	-7577 Dec 03 j 15:27	5°♎04'55	
retrograde	-7576 Mar 03 j 03:08	6°♎39'20	
min. Earth dist.	-7576 May 21 j 13:27	5°♎32'07	36.40254 AU
opposition	-7576 May 24 j 23:18	5°♎27'28	-6°42'17
direct	-7576 Aug 12 j 19:41	4°♎17'33	
evening set	-7576 Nov 06 j 10:59	5°♎47'04	
conjunction	-7576 Nov 20 j 07:01	6°♎11'49	-6°33'43
minimum elong	-7576 Nov 20 j 06:48	6°♎11'48	6°33'42
max. Earth dist.	-7576 Nov 23 j 17:07	6°♎17'59	38.51720 AU
morning rise	-7576 Dec 04 j 05:41	6°♎36'45	
retrograde	-7575 Mar 04 j 20:51	8°♎10'51	
min. Earth dist.	-7575 May 23 j 09:15	7°♎03'53	36.65927 AU
opposition	-7575 May 26 j 19:01	6°♎59'16	-7°08'35
direct	-7575 Aug 14 j 16:12	5°♎49'39	
evening set	-7575 Nov 08 j 10:01	7°♎18'50	
conjunction	-7575 Nov 22 j 01:25	7°♎43'03	-6°58'31
minimum elong	-7575 Nov 22 j 01:13	7°♎43'02	6°58'31
max. Earth dist.	-7575 Nov 25 j 12:23	7°♎49'14	38.77116 AU
morning rise	-7575 Dec 05 j 19:06	8°♎07'27	
retrograde	-7574 Mar 06 j 12:54	9°♎41'15	
min. Earth dist.	-7574 May 25 j 05:07	8°♎34'30	36.91404 AU
opposition	-7574 May 28 j 14:12	8°♎29'56	-7°34'14
direct	-7574 Aug 16 j 13:11	7°♎20'35	
evening set	-7574 Nov 10 j 08:59	8°♎49'27	
conjunction	-7574 Nov 23 j 19:10	9°♎13'08	-7°22'42
minimum elong	-7574 Nov 23 j 18:56	9°♎13'07	7°22'44
max. Earth dist.	-7574 Nov 27 j 05:06	9°♎19'12	39.02323 AU
morning rise	-7574 Dec 07 j 07:46	9°♎37'00	
retrograde	-7573 Mar 08 j 07:16	11°♎10'31	
min. Earth dist.	-7573 May 26 j 22:55	10°♎04'02	37.16723 AU
opposition	-7573 May 30 j 08:51	9°♎59'26	-7°59'15
direct	-7573 Aug 18 j 07:00	8°♎50'21	
evening set	-7573 Nov 12 j 07:40	10°♎18'55	
conjunction	-7573 Nov 25 j 12:34	10°♎42'03	-7°46'18
minimum elong	-7573 Nov 25 j 12:21	10°♎42'02	7°46'21
max. Earth dist.	-7573 Nov 28 j 23:36	10°♎48'09	39.27381 AU
morning rise	-7573 Dec 08 j 19:45	11°♎05'22	
retrograde	-7572 Mar 09 j 01:03	12°♎38'37	
min. Earth dist.	-7572 May 27 j 18:10	11°♎32'17	37.41927 AU
opposition	-7572 May 31 j 03:08	11°♎27'46	-8°23'37
direct	-7572 Aug 19 j 00:45	10°♎18'56	
evening set	-7572 Nov 13 j 06:11	11°♎47'14	
conjunction	-7572 Nov 26 j 05:32	12°♎09'49	-8°09'18
minimum elong	-7572 Nov 26 j 05:18	12°♎09'48	8°09'21
max. Earth dist.	-7572 Nov 29 j 16:13	12°♎15'51	39.52356 AU
morning rise	-7572 Dec 09 j 06:58	12°♎32'34	
retrograde	-7571 Mar 10 j 18:57	14°♎05'36	
min. Earth dist.	-7571 May 29 j 10:47	12°♎59'32	37.67065 AU
opposition	-7571 Jun 01 j 20:49	12°♎54'59	-8°47'19
direct	-7571 Aug 20 j 17:59	11°♎46'23	
evening set	-7571 Nov 15 j 04:43	13°♎14'29	
conjunction	-7571 Nov 27 j 22:08	13°♎36'30	-8°31'41
minimum elong	-7571 Nov 27 j 21:54	13°♎36'29	8°31'46
max. Earth dist.	-7571 Dec 01 j 09:03	13°♎42'31	39.77272 AU
morning rise	-7571 Dec 10 j 17:47	13°♎58'41	
retrograde	-7570 Mar 12 j 10:27	15°♎31'30	
min. Earth dist.	-7570 May 31 j 04:32	14°♎25'39	37.92183 AU
opposition	-7570 Jun 03 j 14:02	14°♎21'08	-9°10'22
direct	-7570 Aug 22 j 12:08	13°♎12'48	
evening set	-7570 Nov 17 j 02:59	14°♎40'43	
conjunction	-7570 Nov 29 j 14:26	15°♎02'10	-8°53'28
minimum elong	-7570 Nov 29 j 14:12	15°♎02'09	8°53'32
max. Earth dist.	-7570 Dec 03 j 02:13	15°♎08'12	40.02179 AU
morning rise	-7570 Dec 12 j 03:45	15°♎23'46	
retrograde	-7569 Mar 13 j 23:46	16°♎56'26	
min. Earth dist.	-7569 Jun 01 j 21:00	15°♎50'51	38.17277 AU
opposition	-7569 Jun 05 j 06:52	15°♎46'19	-9°32'47
direct	-7569 Aug 24 j 07:43	14°♎38'16	
evening set	-7569 Nov 19 j 01:06	16°♎06'02	
conjunction	-7569 Dec 01 j 06:06	16°♎26'55	-9°14'38
minimum elong	-7569 Dec 01 j 05:51	16°♎26'54	9°14'44
max. Earth dist.	-7569 Dec 04 j 17:14	16°♎32'52	40.27062 AU
morning rise	-7569 Dec 13 j 13:09	16°♎47'55	
retrograde	-7568 Mar 14 j 15:44	18°♎20'29	
min. Earth dist.	-7568 Jun 02 j 12:59	17°♎15'11	38.42355 AU
opposition	-7568 Jun 05 j 23:26	17°♎10'39	-9°54'32
direct	-7568 Aug 24 j 23:55	16°♎02'53	
evening set	-7568 Nov 19 j 23:08	17°♎30'32	

Attention, astronomical year style is used: The year -7568 in astronomical counting style is the year 7569 BCE in historical counting style.

conjunction	-7568 Dec 01 j 21:44	17°♎50'49	-9°35'13
minimum elong	-7568 Dec 01 j 21:30	17°♎50'48	9°35'18
max. Earth dist.	-7568 Dec 05 j 10:03	17°♎56'50	40.51903 AU
morning rise	-7568 Dec 13 j 22:06	18°♎11'15	
retrograde	-7567 Mar 16 j 06:12	19°♎43'44	
min. Earth dist.	-7567 Jun 04 j 05:58	18°♎38'38	38.67361 AU
opposition	-7567 Jun 07 j 15:29	18°♎34'10	-10°15'39
direct	-7567 Aug 26 j 16:42	17°♎26'42	
evening set	-7567 Nov 21 j 21:16	18°♎54'17	
conjunction	-7567 Dec 03 j 13:02	19°♎13'59	-9°55'13
minimum elong	-7567 Dec 03 j 12:47	19°♎13'58	9°55'20
max. Earth dist.	-7567 Dec 07 j 00:25	19°♎19'53	40.76655 AU
morning rise	-7567 Dec 15 j 06:31	19°♎33'48	
retrograde	-7566 Mar 17 j 23:31	21°♎06'14	
min. Earth dist.	-7566 Jun 05 j 20:53	20°♎01'27	38.92247 AU
opposition	-7566 Jun 09 j 07:10	19°♎56'58	-10°36'10
direct	-7566 Aug 28 j 06:30	18°♎49'46	
evening set	-7566 Nov 23 j 19:12	20°♎17'20	
conjunction	-7566 Dec 05 j 03:56	20°♎36'26	-10°14'38
minimum elong	-7566 Dec 05 j 03:41	20°♎36'25	10°14'45
max. Earth dist.	-7566 Dec 08 j 15:43	20°♎42'19	41.01237 AU
morning rise	-7566 Dec 16 j 14:23	20°♎55'39	
retrograde	-7565 Mar 19 j 16:29	22°♎28'03	
min. Earth dist.	-7565 Jun 07 j 13:36	21°♎23'27	39.16943 AU
opposition	-7565 Jun 10 j 22:38	21°♎19'04	-10°56'04
direct	-7565 Aug 29 j 20:23	20°♎12'09	
evening set	-7565 Nov 25 j 17:12	21°♎39'42	
conjunction	-7565 Dec 06 j 18:46	21°♎58'11	-10°33'29
minimum elong	-7565 Dec 06 j 18:31	21°♎58'10	10°33'38
max. Earth dist.	-7565 Dec 10 j 06:12	22°♎04'01	41.25608 AU
morning rise	-7565 Dec 17 j 21:44	22°♎16'47	
retrograde	-7564 Mar 20 j 06:13	23°♎49'12	
min. Earth dist.	-7564 Jun 08 j 04:32	22°♎44'51	39.41379 AU
opposition	-7564 Jun 11 j 13:37	22°♎40'29	-11°15'22
direct	-7564 Aug 30 j 12:31	21°♎33'50	
evening set	-7564 Nov 26 j 15:15	23°♎01'23	
conjunction	-7564 Dec 07 j 09:13	23°♎19'15	-10°51'48
minimum elong	-7564 Dec 07 j 08:59	23°♎19'14	10°51'57
max. Earth dist.	-7564 Dec 10 j 19:31	23°♎24'59	41.49680 AU
morning rise	-7564 Dec 18 j 04:46	23°♎37'14	
retrograde	-7563 Mar 21 j 19:28	25°♎09'39	
min. Earth dist.	-7563 Jun 09 j 20:11	24°♎05'30	39.65505 AU
opposition	-7563 Jun 13 j 04:29	24°♎01'11	-11°34'06
direct	-7563 Sep 01 j 04:36	22°♎54'47	
evening set	-7563 Nov 28 j 13:14	24°♎22'21	
conjunction	-7563 Dec 08 j 23:39	24°♎39'36	-11°09'35
minimum elong	-7563 Dec 08 j 23:24	24°♎39'35	11°09'45
max. Earth dist.	-7563 Dec 12 j 10:16	24°♎45'19	41.73419 AU
morning rise	-7563 Dec 19 j 11:16	24°♎56'56	
retrograde	-7562 Mar 23 j 06:27	26°♎29'22	
min. Earth dist.	-7562 Jun 11 j 11:37	25°♎25'23	39.89271 AU
opposition	-7562 Jun 14 j 18:44	25°♎21'08	-11°52'17
direct	-7562 Sep 02 j 21:47	24°♎14'58	
evening set	-7562 Nov 30 j 11:14	25°♎42'34	
conjunction	-7562 Dec 10 j 13:33	25°♎59'10	-11°26'51
minimum elong	-7562 Dec 10 j 13:19	25°♎59'09	11°27'01
max. Earth dist.	-7562 Dec 13 j 22:30	26°♎04'44	41.96814 AU
morning rise	-7562 Dec 20 j 17:08	26°♎15'52	
retrograde	-7561 Mar 24 j 20:48	27°♎48'19	
min. Earth dist.	-7561 Jun 13 j 01:23	26°♎44'33	40.12710 AU
opposition	-7561 Jun 16 j 08:47	26°♎40'18	-12°09'54
direct	-7561 Sep 04 j 11:15	25°♎34'21	
evening set	-7561 Dec 02 j 08:52	27°♎01'59	
conjunction	-7561 Dec 12 j 03:04	27°♎17'56	-11°43'35
minimum elong	-7561 Dec 12 j 02:49	27°♎17'55	11°43'46
max. Earth dist.	-7561 Dec 15 j 12:24	27°♎23'30	42.19891 AU
morning rise	-7561 Dec 21 j 22:24	27°♎33'59	
retrograde	-7560 Mar 25 j 10:33	29°♎06'29	
min. Earth dist.	-7560 Jun 13 j 16:48	28°♎02'49	40.35857 AU
opposition	-7560 Jun 16 j 22:34	27°♎58'40	-12°26'58
direct	-7560 Sep 05 j 00:45	26°♎52'54	
evening set	-7560 Dec 03 j 06:46	28°♎20'35	
conjunction	-7560 Dec 12 j 16:28	28°♎35'53	-11°59'47
minimum elong	-7560 Dec 12 j 16:15	28°♎35'52	11°59'58
max. Earth dist.	-7560 Dec 16 j 01:05	28°♎41'22	42.42716 AU
morning rise	-7560 Dec 22 j 03:06	28°♎51'16	
	-7559 Feb 09 j 20:25	0°♏	
retrograde	-7559 Mar 27 j 01:06	0°♏23'49	
	-7559 May 12 j 02:31	30°℞♎	
min. Earth dist.	-7559 Jun 15 j 05:34	29°♎20'21	40.58768 AU
opposition	-7559 Jun 18 j 11:44	29°♎16'12	-12°43'28
direct	-7559 Sep 06 j 13:14	28°♎10'37	
evening set	-7559 Dec 05 j 04:35	29°♎38'24	
conjunction	-7559 Dec 14 j 05:29	29°♎53'03	-12°15'27
minimum elong	-7559 Dec 14 j 05:15	29°♎53'02	12°15'39
max. Earth dist.	-7559 Dec 17 j 13:37	29°♎58'28	42.65322 AU
	-7559 Dec 18 j 12:24	0°♏	
morning rise	-7559 Dec 23 j 07:24	0°♏07'44	
retrograde	-7558 Mar 28 j 14:57	1°♏40'23	
min. Earth dist.	-7558 Jun 16 j 19:32	0°♏37'03	40.81497 AU
opposition	-7558 Jun 20 j 00:50	0°♏32'58	-12°59'25
	-7558 Jul 17 j 03:20	30°℞♎	
direct	-7558 Sep 08 j 01:33	29°♎27'35	
	-7558 Oct 29 j 13:47	0°♏	
evening set	-7558 Dec 07 j 02:18	0°♏55'30	
conjunction	-7558 Dec 15 j 18:15	1°♏09'27	-12°30'36
minimum elong	-7558 Dec 15 j 18:02	1°♏09'26	12°30'49
max. Earth dist.	-7558 Dec 19 j 02:50	1°♏14'52	42.87766 AU
morning rise	-7558 Dec 24 j 10:54	1°♏23'27	
retrograde	-7557 Mar 30 j 00:05	2°♏56'13	
min. Earth dist.	-7557 Jun 18 j 08:28	1°♏53'04	41.04051 AU
opposition	-7557 Jun 21 j 13:30	1°♏49'00	-13°14'47
direct	-7557 Sep 09 j 17:13	0°♏43'50	
evening set	-7557 Dec 09 j 00:12	2°♏11'54	
conjunction	-7557 Dec 17 j 06:41	2°♏25'09	-12°45'13
minimum elong	-7557 Dec 17 j 06:27	2°♏25'08	12°45'26
max. Earth dist.	-7557 Dec 20 j 13:58	2°♏30'28	43.10054 AU
morning rise	-7557 Dec 25 j 13:56	2°♏38'28	
retrograde	-7556 Mar 30 j 11:04	4°♏11'23	
min. Earth dist.	-7556 Jun 18 j 20:47	3°♏08'27	41.26461 AU
opposition	-7556 Jun 22 j 01:58	3°♏04'23	-13°29'37
direct	-7556 Sep 10 j 06:48	1°♏59'25	
evening set	-7556 Dec 09 j 22:05	3°♏27'41	
conjunction	-7556 Dec 17 j 19:01	3°♏40'14	-12°59'19
minimum elong	-7556 Dec 17 j 18:49	3°♏40'13	12°59'33
max. Earth dist.	-7556 Dec 21 j 03:05	3°♏45'34	43.32179 AU
morning rise	-7556 Dec 25 j 16:33	3°♏52'50	
retrograde	-7555 Mar 31 j 22:27	5°♏25'57	
min. Earth dist.	-7555 Jun 20 j 10:25	4°♏23'09	41.48674 AU
opposition	-7555 Jun 23 j 14:12	4°♏19'10	-13°43'55
direct	-7555 Sep 11 j 19:48	3°♏14'25	
evening set	-7555 Dec 11 j 20:21	4°♏42'54	

Attention, astronomical year style is used: The year -7555 in astronomical counting style is the year 7556 BCE in historical counting style.

conjunction	-7555 Dec 19 j 07:09	4°♏54'44	-13°12'54
minimum elong	-7555 Dec 19 j 06:56	4°♏54'43	13°13'09
max. Earth dist.	-7555 Dec 22 j 13:59	4°♏59'58	43.54102 AU
morning rise	-7555 Dec 26 j 18:25	5°♏06'36	
retrograde	-7554 Apr 02 j 11:43	6°♏39'56	
min. Earth dist.	-7554 Jun 21 j 21:44	5°♏37'22	41.70658 AU
opposition	-7554 Jun 25 j 01:57	5°♏33'23	-13°57'41
direct	-7554 Sep 13 j 06:18	4°♏28'51	
evening set	-7554 Dec 13 j 18:41	5°♏57'37	
conjunction	-7554 Dec 20 j 19:00	6°♏08'42	-13°26'01
minimum elong	-7554 Dec 20 j 18:48	6°♏08'41	13°26'17
max. Earth dist.	-7554 Dec 24 j 01:25	6°♏13'52	43.75761 AU
morning rise	-7554 Dec 27 j 19:48	6°♏19'49	
retrograde	-7553 Apr 04 j 00:48	7°♏53'25	
min. Earth dist.	-7553 Jun 23 j 11:08	6°♏50'59	41.92356 AU
opposition	-7553 Jun 26 j 13:44	6°♏47'06	-14°10'57
direct	-7553 Sep 14 j 17:02	5°♏42'47	
evening set	-7553 Dec 15 j 17:22	7°♏11'51	
conjunction	-7553 Dec 22 j 06:44	7°♏22'10	-13°38'39
minimum elong	-7553 Dec 22 j 06:31	7°♏22'09	13°38'54
max. Earth dist.	-7553 Dec 25 j 12:51	7°♏27'18	43.97111 AU
morning rise	-7553 Dec 28 j 20:20	7°♏32'30	
retrograde	-7552 Apr 04 j 11:26	9°♏06'23	
min. Earth dist.	-7552 Jun 23 j 23:08	8°♏04'08	42.13689 AU
opposition	-7552 Jun 27 j 01:10	8°♏00'18	-14°23'44
direct	-7552 Sep 15 j 05:47	6°♏56'11	
evening set	-7552 Dec 16 j 16:40	8°♏25'36	
conjunction	-7552 Dec 22 j 18:20	8°♏35'08	-13°50'50
minimum elong	-7552 Dec 22 j 18:08	8°♏35'07	13°51'07
max. Earth dist.	-7552 Dec 25 j 22:37	8°♏40'07	44.18064 AU
morning rise	-7552 Dec 28 j 20:16	8°♏44'39	
retrograde	-7551 Apr 05 j 22:54	10°♏18'53	
min. Earth dist.	-7551 Jun 25 j 11:14	9°♏16'46	42.34612 AU
opposition	-7551 Jun 28 j 12:21	9°♏12'59	-14°36'03
direct	-7551 Sep 16 j 17:19	8°♏09'04	
evening set	-7551 Dec 18 j 16:32	9°♏38'54	
conjunction	-7551 Dec 24 j 05:53	9°♏47'33	-14°02'35
minimum elong	-7551 Dec 24 j 05:42	9°♏47'33	14°02'51
max. Earth dist.	-7551 Dec 27 j 10:04	9°♏52'31	44.38580 AU
morning rise	-7551 Dec 29 j 19:22	9°♏56'14	
retrograde	-7550 Apr 07 j 07:11	11°♏30'50	
min. Earth dist.	-7550 Jun 27 j 00:01	10°♏28'50	42.55065 AU
opposition	-7550 Jun 29 j 23:23	10°♏25'08	-14°47'55
direct	-7550 Sep 18 j 06:55	9°♏21'23	
evening set	-7550 Dec 20 j 17:06	10°♏51'41	
conjunction	-7550 Dec 25 j 16:58	10°♏59'26	-14°13'54
minimum elong	-7550 Dec 25 j 16:46	10°♏59'25	14°14'12
max. Earth dist.	-7550 Dec 28 j 19:11	11°♏04'15	44.58644 AU
morning rise	-7550 Dec 30 j 16:52	11°♏07'12	
retrograde	-7549 Apr 08 j 18:57	12°♏42'14	
min. Earth dist.	-7549 Jun 28 j 10:52	11°♏40'23	42.75073 AU
opposition	-7549 Jul 01 j 10:07	11°♏36'43	-14°59'20
direct	-7549 Sep 19 j 17:03	10°♏33'07	
evening set	-7549 Dec 22 j 18:45	12°♏03'57	
conjunction	-7549 Dec 27 j 03:54	12°♏10'43	-14°24'48
minimum elong	-7549 Dec 27 j 03:43	12°♏10'43	14°25'05
max. Earth dist.	-7549 Dec 30 j 05:41	12°♏15'29	44.78274 AU
morning rise	-7549 Dec 31 j 13:03	12°♏17'30	
retrograde	-7548 Apr 09 j 07:25	13°♏53'04	
min. Earth dist.	-7548 Jun 28 j 23:19	12°♏51'15	42.94675 AU
opposition	-7548 Jul 01 j 20:38	12°♏47'42	-15°10'18
direct	-7548 Sep 20 j 01:48	11°♏44'15	
evening set	-7548 Dec 23 j 22:21	13°♏15'45	
conjunction	-7548 Dec 27 j 14:42	13°♏21'25	-14°35'15
minimum elong	-7548 Dec 27 j 14:31	13°♏21'24	14°35'35
morning rise	-7548 Dec 31 j 06:53	13°♏27'05	
max. Earth dist.	-7548 Dec 30 j 15:47	13°♏26'07	44.97539 AU
	-7547 Mar 24 j 17:36	15°♏	
retrograde	-7547 Apr 10 j 16:44	15°♏03'17	
	-7547 Apr 27 j 16:30	15°℞♏	
min. Earth dist.	-7547 Jun 30 j 09:37	14°♏01'38	43.13920 AU
opposition	-7547 Jul 03 j 06:45	13°♏58'05	-15°20'49
direct	-7547 Sep 21 j 13:13	12°♏54'47	
evening set	-7547 Dec 26 j 05:01	14°♏27'10	
conjunction	-7547 Dec 29 j 01:08	14°♏31'32	-14°45'17
minimum elong	-7547 Dec 29 j 00:58	14°♏31'31	14°45'36
morning rise	-7547 Dec 31 j 21:05	14°♏35'53	
max. Earth dist.	-7546 Jan 01 j 00:44	14°♏36'07	45.16473 AU
	-7546 Jan 16 j 20:22	15°♏	
retrograde	-7546 Apr 12 j 02:00	16°♏12'57	
min. Earth dist.	-7546 Jul 01 j 20:26	15°♏11'24	43.32876 AU
opposition	-7546 Jul 04 j 16:40	15°♏07'54	-15°30'52
	-7546 Jul 11 j 03:39	15°℞♏	
direct	-7546 Sep 23 j 00:11	14°♏04'45	
	-7546 Dec 02 j 17:20	15°♏	
evening set	-7546 Dec 28 j 19:53	15°♏38'35	
conjunction	-7546 Dec 30 j 11:30	15°♏41'06	-14°54'52
minimum elong	-7546 Dec 30 j 11:19	15°♏41'06	14°55'11
morning rise	-7545 Jan 01 j 02:49	15°♏43'37	
max. Earth dist.	-7545 Jan 02 j 11:33	15°♏45'42	45.35146 AU
retrograde	-7545 Apr 13 j 08:46	17°♏22'05	
min. Earth dist.	-7545 Jul 03 j 07:15	16°♏20'39	43.51570 AU
opposition	-7545 Jul 06 j 02:23	16°♏17'13	-15°40'28
direct	-7545 Sep 24 j 13:04	15°♏14'13	
conjunction	-7545 Dec 31 j 21:26	16°♏50'11	-15°04'00
minimum elong	-7545 Dec 31 j 21:17	16°♏50'10	15°04'20
max. Earth dist.	-7544 Jan 03 j 19:55	16°♏54'39	45.53586 AU
retrograde	-7544 Apr 13 j 18:42	18°♏30'46	
min. Earth dist.	-7544 Jul 03 j 16:31	17°♏29'30	43.70033 AU
opposition	-7544 Jul 06 j 11:55	17°♏26'04	-15°49'37
direct	-7544 Sep 24 j 22:37	16°♏23'13	
conjunction	-7543 Jan 01 j 07:25	17°♏58'49	-15°12'43
minimum elong	-7543 Jan 01 j 07:15	17°♏58'48	15°13'03
max. Earth dist.	-7543 Jan 04 j 05:51	18°♏03'16	45.71784 AU
retrograde	-7543 Apr 15 j 05:17	19°♏39'01	
min. Earth dist.	-7543 Jul 05 j 03:35	18°♏37'50	43.88246 AU
opposition	-7543 Jul 07 j 21:13	18°♏34'30	-15°58'19
direct	-7543 Sep 26 j 07:23	17°♏31'50	
conjunction	-7542 Jan 02 j 17:17	19°♏07'04	-15°21'00
minimum elong	-7542 Jan 02 j 17:09	19°♏07'04	15°21'21
max. Earth dist.	-7542 Jan 05 j 14:54	19°♏11'27	45.89738 AU
retrograde	-7542 Apr 16 j 17:01	20°♏46'52	
min. Earth dist.	-7542 Jul 06 j 12:41	19°♏45'52	44.06176 AU
opposition	-7542 Jul 09 j 06:17	19°♏42'33	-16°06'34
direct	-7542 Sep 27 j 14:35	18°♏40'03	
conjunction	-7541 Jan 04 j 02:42	20°♏14'58	-15°28'53
minimum elong	-7541 Jan 04 j 02:33	20°♏14'57	15°29'14
max. Earth dist.	-7541 Jan 06 j 23:02	20°♏19'15	46.07384 AU
retrograde	-7541 Apr 18 j 03:42	21°♏54'24	
min. Earth dist.	-7541 Jul 07 j 23:04	20°♏53'31	44.23788 AU
opposition	-7541 Jul 10 j 15:20	20°♏50'16	-16°14'25

Attention, astronomical year style is used: The year -7541 in astronomical counting style is the year 7542 BCE in historical counting style.

direct	-7541 Sep 28 j 22:16	19°♏47'55		
conjunction	-7540 Jan 05 j 12:21	21°♏22'31	-15°36'22	
minimum elong	-7540 Jan 05 j 12:13	21°♏22'31	15°36'45	
max. Earth dist.	-7540 Jan 08 j 08:36	21°♏26'47	46.24686 AU	
retrograde	-7540 Apr 18 j 09:29	23°♏01'36		
min. Earth dist.	-7540 Jul 08 j 09:05	22°♏00'49	44.41003 AU	
opposition	-7540 Jul 11 j 00:02	21°♏57'38	-16°21'52	
direct	-7540 Sep 29 j 10:18	20°♏55'27		
conjunction	-7539 Jan 05 j 21:48	22°♏29'43	-15°43'29	
minimum elong	-7539 Jan 05 j 21:40	22°♏29'43	15°43'51	
max. Earth dist.	-7539 Jan 08 j 15:43	22°♏33'50	46.41573 AU	
retrograde	-7539 Apr 19 j 17:08	24°♏08'26		
min. Earth dist.	-7539 Jul 09 j 18:21	23°♏07'47	44.57776 AU	
opposition	-7539 Jul 12 j 08:41	23°♏04'39	-16°28'56	
direct	-7539 Sep 30 j 20:47	22°♏02'36		
conjunction	-7538 Jan 07 j 07:11	23°♏36'33	-15°50'14	
minimum elong	-7538 Jan 07 j 07:04	23°♏36'32	15°50'37	
max. Earth dist.	-7538 Jan 10 j 00:38	23°♏40'36	46.57981 AU	
retrograde	-7538 Apr 21 j 01:41	25°♏14'54		
min. Earth dist.	-7538 Jul 11 j 05:07	24°♏14'16	44.74052 AU	
opposition	-7538 Jul 13 j 17:09	24°♏11'16	-16°35'38	
direct	-7538 Oct 02 j 06:12	23°♏09'20		
conjunction	-7537 Jan 08 j 16:22	24°♏42'56	-15°56'38	
minimum elong	-7537 Jan 08 j 16:16	24°♏42'56	15°57'01	
max. Earth dist.	-7537 Jan 11 j 08:12	24°♏46'53	46.73915 AU	
retrograde	-7537 Apr 22 j 11:13	26°♏20'55		
min. Earth dist.	-7537 Jul 12 j 13:33	25°♏20'24	44.89844 AU	
opposition	-7537 Jul 15 j 01:24	25°♏17'25	-16°41'59	
direct	-7537 Oct 03 j 13:49	24°♏15'35		
conjunction	-7536 Jan 10 j 01:12	25°♏48'52	-16°02'41	
minimum elong	-7536 Jan 10 j 01:05	25°♏48'51	16°03'05	
max. Earth dist.	-7536 Jan 12 j 15:27	25°♏52'41	46.89375 AU	
retrograde	-7536 Apr 22 j 21:19	27°♏26'28		
min. Earth dist.	-7536 Jul 12 j 23:35	26°♏25'58	45.05192 AU	
opposition	-7536 Jul 15 j 09:36	26°♏23'04	-16°47'57	
direct	-7536 Oct 03 j 21:01	25°♏21'20		
conjunction	-7535 Jan 10 j 10:09	26°♏54'17	-16°08'23	
minimum elong	-7535 Jan 10 j 10:03	26°♏54'17	16°08'46	
max. Earth dist.	-7535 Jan 13 j 00:12	26°♏58'05	47.04425 AU	
retrograde	-7535 Apr 24 j 03:29	28°♏31'30		
min. Earth dist.	-7535 Jul 14 j 08:20	27°♏31'04	45.20138 AU	
opposition	-7535 Jul 16 j 17:19	27°♏28'13	-16°53'33	
direct	-7535 Oct 05 j 07:02	26°♏26'34		
conjunction	-7534 Jan 11 j 18:43	27°♏59'12	-16°13'42	
minimum elong	-7534 Jan 11 j 18:38	27°♏59'12	16°14'07	
max. Earth dist.	-7534 Jan 14 j 06:46	28°♏02'53	47.19114 AU	
retrograde	-7534 Apr 25 j 11:02	29°♏36'04		
min. Earth dist.	-7534 Jul 15 j 16:27	28°♏35'43	45.34763 AU	
opposition	-7534 Jul 18 j 01:02	28°♏32'54	-16°58'46	
direct	-7534 Oct 06 j 15:26	27°♏31'21		
conjunction	-7533 Jan 13 j 03:03	29°♏03'40	-16°18'40	
minimum elong	-7533 Jan 13 j 02:59	29°♏03'40	16°19'04	
max. Earth dist.	-7533 Jan 15 j 15:12	29°♏07'20	47.33498 AU	
	-7533 Feb 23 j 05:40	0°♐		
retrograde	-7533 Apr 26 j 16:39	0°♐40'12		
	-7533 Jun 29 j 17:52	30°℞♏		
min. Earth dist.	-7533 Jul 17 j 01:42	29°♏39'54	45.49094 AU	
opposition	-7533 Jul 19 j 08:39	29°♏37'10	-17°03'36	
direct	-7533 Oct 08 j 01:33	28°♏35'43		
	-7532 Jan 09 j 03:39	0°♐		
conjunction	-7532 Jan 14 j 11:23	0°♐07'45	-16°23'15	
minimum elong	-7532 Jan 14 j 11:18	0°♐07'44	16°23'39	
max. Earth dist.	-7532 Jan 16 j 22:17	0°♐11'20	47.47629 AU	
retrograde	-7532 Apr 27 j 01:46	1°♐43'57		
min. Earth dist.	-7532 Jul 17 j 08:51	0°♐43'47	45.63167 AU	
opposition	-7532 Jul 19 j 15:53	0°♐41'03	-17°08'03	
	-7532 Aug 26 j 09:24	30°℞♏		
direct	-7532 Oct 08 j 08:04	29°♏39'42		
	-7532 Nov 19 j 14:51	0°♐		
conjunction	-7531 Jan 14 j 19:34	1°♐11'29	-16°27'28	
minimum elong	-7531 Jan 14 j 19:31	1°♐11'29	16°27'53	
max. Earth dist.	-7531 Jan 17 j 05:28	1°♐14'59	47.61496 AU	
retrograde	-7531 Apr 28 j 12:01	2°♐47'24		
min. Earth dist.	-7531 Jul 18 j 17:46	1°♐47'17	45.76978 AU	
opposition	-7531 Jul 20 j 23:15	1°♐44'38	-17°12'08	
direct	-7531 Oct 09 j 12:50	0°♐43'25		
conjunction	-7530 Jan 16 j 03:42	2°♐14'58	-16°31'20	
minimum elong	-7530 Jan 16 j 03:38	2°♐14'57	16°31'45	
max. Earth dist.	-7530 Jan 18 j 13:25	2°♐18'26	47.75101 AU	
retrograde	-7530 Apr 29 j 17:54	3°♐50'35		
min. Earth dist.	-7530 Jul 20 j 01:24	2°♐50'35	45.90489 AU	
opposition	-7530 Jul 22 j 06:13	2°♐47'59	-17°15'50	
direct	-7530 Oct 10 j 21:47	1°♐46'54		
conjunction	-7529 Jan 17 j 11:36	3°♐18'13	-16°34'50	
minimum elong	-7529 Jan 17 j 11:34	3°♐18'13	16°35'16	
max. Earth dist.	-7529 Jan 19 j 19:17	3°♐21'34	47.88402 AU	
retrograde	-7529 May 01 j 00:26	4°♐53'34		
min. Earth dist.	-7529 Jul 21 j 09:09	3°♐53'42	46.03680 AU	
opposition	-7529 Jul 23 j 13:13	3°♐51'08	-17°19'12	
direct	-7529 Oct 12 j 05:53	2°♐50'11		
conjunction	-7528 Jan 18 j 19:32	4°♐21'17	-16°38'01	
minimum elong	-7528 Jan 18 j 19:29	4°♐21'17	16°38'27	
max. Earth dist.	-7528 Jan 21 j 03:05	4°♐24'38	48.01342 AU	
retrograde	-7528 May 01 j 06:22	5°♐56'24		
min. Earth dist.	-7528 Jul 21 j 18:10	4°♐56'35	46.16463 AU	
opposition	-7528 Jul 23 j 20:09	4°♐54'07	-17°22'13	
direct	-7528 Oct 12 j 14:59	3°♐53'18		
conjunction	-7527 Jan 19 j 03:32	5°♐24'12	-16°40'53	
minimum elong	-7527 Jan 19 j 03:30	5°♐24'11	16°41'19	
max. Earth dist.	-7527 Jan 21 j 09:08	5°♐27'24	48.13857 AU	
retrograde	-7527 May 02 j 14:47	6°♐59'03		
min. Earth dist.	-7527 Jul 23 j 01:11	5°♐59'22	46.28784 AU	
opposition	-7527 Jul 25 j 02:45	5°♐56'56	-17°24'55	
direct	-7527 Oct 13 j 21:20	4°♐56'13		
conjunction	-7526 Jan 20 j 11:23	6°♐26'55	-16°43'27	
minimum elong	-7526 Jan 20 j 11:21	6°♐26'55	16°43'52	
max. Earth dist.	-7526 Jan 22 j 15:18	6°♐30'01	48.25875 AU	
retrograde	-7526 May 04 j 00:23	8°♐01'31		
min. Earth dist.	-7526 Jul 24 j 10:15	7°♐01'51	46.40594 AU	
opposition	-7526 Jul 26 j 09:34	6°♐59'32	-17°27'20	
direct	-7526 Oct 15 j 02:19	5°♐58'55		
conjunction	-7525 Jan 21 j 19:04	7°♐29'24	-16°45'43	
minimum elong	-7525 Jan 21 j 19:03	7°♐29'24	16°46'10	
max. Earth dist.	-7525 Jan 23 j 22:16	7°♐32'27	48.37388 AU	
retrograde	-7525 May 05 j 07:39	9°♐03'44		
min. Earth dist.	-7525 Jul 25 j 17:49	8°♐04'07	46.51877 AU	
opposition	-7525 Jul 27 j 16:07	8°♐01'51	-17°29'26	
direct	-7525 Oct 16 j 09:01	7°♐01'19		

Attention, astronomical year style is used: The year -7524 in astronomical counting style is the year 7525 BCE in historical counting style.

conjunction	-7524 Jan 23 j 02:37	8°↗31'35	-16°47'42
minimum elong	-7524 Jan 23 j 02:36	8°↗31'35	16°48'08
max. Earth dist.	-7524 Jan 25 j 03:20	8°↗34'29	48.48394 AU
retrograde	-7524 May 05 j 14:56	10°↗05'39	
min. Earth dist.	-7524 Jul 26 j 01:20	9°↗06'04	46.62682 AU
opposition	-7524 Jul 27 j 22:29	9°↗03'52	-17°31'14
direct	-7524 Oct 16 j 15:47	8°↗03'24	
conjunction	-7523 Jan 23 j 10:13	9°↗33'27	-16°49'22
minimum elong	-7523 Jan 23 j 10:13	9°↗33'27	16°49'51
max. Earth dist.	-7523 Jan 25 j 10:34	9°↗36'19	48.58938 AU
retrograde	-7523 May 06 j 17:36	11°↗07'15	
min. Earth dist.	-7523 Jul 27 j 09:34	10°↗07'40	46.73039 AU
opposition	-7523 Jul 29 j 04:47	10°↗05'33	-17°32'44
direct	-7523 Oct 18 j 02:00	9°↗05'09	
conjunction	-7522 Jan 24 j 17:32	10°↗34'58	-16°50'45
minimum elong	-7522 Jan 24 j 17:32	10°↗34'58	16°51'13
max. Earth dist.	-7522 Jan 26 j 16:06	10°↗37'43	48.69082 AU
retrograde	-7522 May 07 j 23:59	12°↗08'30	
min. Earth dist.	-7522 Jul 28 j 15:43	11°↗09'00	46.83020 AU
opposition	-7522 Jul 30 j 10:47	11°↗06'54	-17°33'55
direct	-7522 Oct 19 j 09:17	10°↗06'34	
conjunction	-7521 Jan 26 j 00:42	11°↗36'10	-16°51'49
minimum elong	-7521 Jan 26 j 00:41	11°↗36'10	16°52'18
max. Earth dist.	-7521 Jan 27 j 22:14	11°↗38'51	48.78870 AU
retrograde	-7521 May 09 j 09:24	13°↗09'27	
min. Earth dist.	-7521 Jul 29 j 23:42	12°↗09'57	46.92677 AU
opposition	-7521 Jul 31 j 16:52	12°↗07'57	-17°34'46
direct	-7521 Oct 20 j 13:05	11°↗07'40	
conjunction	-7520 Jan 27 j 07:50	12°↗37'04	-16°52'34
minimum elong	-7520 Jan 27 j 07:52	12°↗37'04	16°53'01
max. Earth dist.	-7520 Jan 29 j 04:58	12°↗39'43	48.88366 AU
retrograde	-7520 May 09 j 15:29	14°↗10'07	
min. Earth dist.	-7520 Jul 30 j 05:55	13°↗10'41	47.02025 AU
opposition	-7520 Jul 31 j 22:45	13°↗08'42	-17°35'18
direct	-7520 Oct 20 j 19:30	12°↗08'29	
conjunction	-7519 Jan 27 j 14:51	13°↗37'43	-16°53'00
minimum elong	-7519 Jan 27 j 14:51	13°↗37'43	16°53'28
max. Earth dist.	-7519 Jan 29 j 09:54	13°↗40'14	48.97563 AU
retrograde	-7519 May 10 j 22:06	15°↗10'31	
min. Earth dist.	-7519 Jul 31 j 12:43	14°↗11'08	47.11085 AU
opposition	-7519 Aug 02 j 04:31	14°↗09'13	-17°35'30
direct	-7519 Oct 22 j 01:19	13°↗09'04	
conjunction	-7518 Jan 28 j 21:53	14°↗38'09	-16°53'08
minimum elong	-7518 Jan 28 j 21:56	14°↗38'09	16°53'35
max. Earth dist.	-7518 Jan 30 j 17:01	14°↗40'40	49.06464 AU
retrograde	-7518 May 12 j 01:38	16°↗10'44	
min. Earth dist.	-7518 Aug 01 j 20:06	15°↗11'24	47.19823 AU
opposition	-7518 Aug 03 j 10:19	15°↗09'32	-17°35'24
direct	-7518 Oct 23 j 10:09	14°↗09'29	
conjunction	-7517 Jan 30 j 04:36	15°↗38'24	-16°52'57
minimum elong	-7517 Jan 30 j 04:37	15°↗38'24	16°53'25
max. Earth dist.	-7517 Jan 31 j 21:54	15°↗40'49	49.15046 AU
retrograde	-7517 May 13 j 07:30	17°↗10'48	
min. Earth dist.	-7517 Aug 03 j 01:55	16°↗11'34	47.28212 AU
opposition	-7517 Aug 04 j 15:56	16°↗09'43	-17°34'59
direct	-7517 Oct 24 j 16:37	15°↗09'45	
conjunction	-7516 Jan 31 j 11:29	16°↗38'31	-16°52'29
minimum elong	-7516 Jan 31 j 11:32	16°↗38'31	16°52'58
max. Earth dist.	-7516 Feb 02 j 03:34	16°↗40'51	49.23238 AU
retrograde	-7516 May 13 j 15:09	18°↗10'45	
min. Earth dist.	-7516 Aug 03 j 09:51	17°↗11'30	47.36184 AU
opposition	-7516 Aug 04 j 21:31	17°↗09'46	-17°34'17
direct	-7516 Oct 24 j 21:43	16°↗09'53	
conjunction	-7515 Jan 31 j 18:30	17°↗38'31	-16°51'45
minimum elong	-7515 Jan 31 j 18:32	17°↗38'31	16°52'13
max. Earth dist.	-7515 Feb 02 j 09:38	17°↗40'48	49.30992 AU
retrograde	-7515 May 14 j 22:49	19°↗10'33	
min. Earth dist.	-7515 Aug 04 j 16:13	18°↗11'22	47.43665 AU
opposition	-7515 Aug 06 j 02:59	18°↗09'41	-17°33'18
direct	-7515 Oct 26 j 02:25	17°↗09'52	
conjunction	-7514 Feb 02 j 01:14	18°↗38'23	-16°50'45
minimum elong	-7514 Feb 02 j 01:18	18°↗38'23	16°51'14
max. Earth dist.	-7514 Feb 03 j 13:44	18°↗40'30	49.38228 AU
retrograde	-7514 May 16 j 06:28	20°↗10'13	
min. Earth dist.	-7514 Aug 05 j 23:15	19°↗11'03	47.50621 AU
opposition	-7514 Aug 07 j 08:28	19°↗09'27	-17°32'04
direct	-7514 Oct 27 j 07:02	18°↗09'41	
conjunction	-7513 Feb 03 j 08:06	19°↗38'04	-16°49'30
minimum elong	-7513 Feb 03 j 08:09	19°↗38'04	16°49'59
max. Earth dist.	-7513 Feb 04 j 19:53	19°↗40'08	49.44929 AU
retrograde	-7513 May 17 j 09:27	21°↗09'43	
min. Earth dist.	-7513 Aug 07 j 06:36	20°↗10'32	47.57025 AU
opposition	-7513 Aug 08 j 13:51	20°↗09'01	-17°30'35
direct	-7513 Oct 28 j 15:26	19°↗09'18	
conjunction	-7512 Feb 04 j 14:45	20°↗37'32	-16°48'00
minimum elong	-7512 Feb 04 j 14:49	20°↗37'32	16°48'30
max. Earth dist.	-7512 Feb 06 j 00:17	20°↗39'28	49.51109 AU
retrograde	-7512 May 17 j 14:09	22°↗09'00	
opposition	-7512 Aug 08 j 19:05	21°↗08'22	-17°28'50
min. Earth dist.	-7512 Aug 07 j 12:29	21°↗09'51	47.62916 AU
direct	-7512 Oct 28 j 22:45	20°↗08'40	
conjunction	-7511 Feb 04 j 21:25	21°↗36'46	-16°46'14
minimum elong	-7511 Feb 04 j 21:29	21°↗36'46	16°46'43
max. Earth dist.	-7511 Feb 06 j 05:31	21°↗38'37	49.56785 AU
retrograde	-7511 May 18 j 21:35	23°↗08'03	
min. Earth dist.	-7511 Aug 08 j 19:54	22°↗08'51	47.68340 AU
opposition	-7511 Aug 10 j 00:13	22°↗07'29	-17°26'49
direct	-7511 Oct 30 j 03:19	21°↗07'48	
conjunction	-7510 Feb 06 j 03:59	22°↗35'46	-16°44'13
minimum elong	-7510 Feb 06 j 04:04	22°↗35'47	16°44'43
max. Earth dist.	-7510 Feb 07 j 11:18	22°↗37'35	49.62042 AU
retrograde	-7510 May 20 j 03:34	24°↗06'53	
min. Earth dist.	-7510 Aug 10 j 01:21	23°↗07'42	47.73360 AU
opposition	-7510 Aug 11 j 05:13	23°↗06'22	-17°24'32
direct	-7510 Oct 31 j 08:01	22°↗06'43	
conjunction	-7509 Feb 07 j 10:09	23°↗34'34	-16°41'55
minimum elong	-7509 Feb 07 j 10:14	23°↗34'34	16°42'24
max. Earth dist.	-7509 Feb 08 j 15:23	23°↗36'15	49.66926 AU
retrograde	-7509 May 21 j 10:11	25°↗05'30	
min. Earth dist.	-7509 Aug 11 j 07:39	24°↗06'19	47.78044 AU
opposition	-7509 Aug 12 j 10:16	24°↗05'02	-17°21'57
direct	-7509 Nov 01 j 12:37	23°↗05'25	
conjunction	-7508 Feb 08 j 16:34	24°↗33'10	-16°39'20
minimum elong	-7508 Feb 08 j 16:39	24°↗33'10	16°39'50
max. Earth dist.	-7508 Feb 09 j 21:48	24°↗34'51	49.71492 AU
retrograde	-7508 May 21 j 12:40	26°↗03'57	
opposition	-7508 Aug 12 j 15:07	25°↗03'33	-17°19'04
min. Earth dist.	-7508 Aug 11 j 13:56	25°↗04'46	47.82412 AU

Attention, astronomical year style is used: The year -7508 in astronomical counting style is the year 7509 BCE in historical counting style.

direct	-7508 Nov 01 j 20:50	24°♐03'58	
conjunction	-7507 Feb 08 j 22:52	25°♐31'38	-16°36'27
minimum elong	-7507 Feb 08 j 22:59	25°♐31'38	16°36'57
max. Earth dist.	-7507 Feb 10 j 02:13	25°♐33'12	49.75774 AU
retrograde	-7507 May 22 j 17:22	27°♐02'16	
opposition	-7507 Aug 13 j 19:57	26°♐01'57	-17°15'54
min. Earth dist.	-7507 Aug 12 j 18:50	26°♐03'10	47.86496 AU
direct	-7507 Nov 03 j 02:55	25°♐02'24	
conjunction	-7506 Feb 10 j 05:00	26°♐30'00	-16°33'18
minimum elong	-7506 Feb 10 j 05:05	26°♐30'00	16°33'49
max. Earth dist.	-7506 Feb 11 j 07:24	26°♐31'30	49.79758 AU
retrograde	-7506 May 23 j 23:31	28°♐00'31	
min. Earth dist.	-7506 Aug 14 j 01:43	27°♐01'24	47.90278 AU
opposition	-7506 Aug 15 j 00:50	27°♐00'17	-17°12'27
direct	-7506 Nov 04 j 08:06	26°♐00'48	
conjunction	-7505 Feb 11 j 11:14	27°♐28'19	-16°29'52
minimum elong	-7505 Feb 11 j 11:22	27°♐28'19	16°30'23
max. Earth dist.	-7505 Feb 12 j 13:05	27°♐29'47	49.83451 AU
retrograde	-7505 May 25 j 07:05	28°♐58'44	
min. Earth dist.	-7505 Aug 15 j 06:47	27°♐59'40	47.93731 AU
opposition	-7505 Aug 16 j 05:28	27°♐58'35	-17°08'42
direct	-7505 Nov 05 j 11:23	26°♐59'09	
conjunction	-7504 Feb 12 j 17:21	28°♐26'37	-16°26'10
minimum elong	-7504 Feb 12 j 17:26	28°♐26'37	16°26'41
max. Earth dist.	-7504 Feb 13 j 16:51	28°♐27'58	49.86785 AU
retrograde	-7504 May 25 j 15:42	29°♐56'55	
opposition	-7504 Aug 16 j 10:14	28°♐56'52	-17°04'42
min. Earth dist.	-7504 Aug 15 j 13:06	28°♐57'53	47.96801 AU
direct	-7504 Nov 05 j 13:34	27°♐57'28	
conjunction	-7503 Feb 12 j 23:44	29°♐24'54	-16°22'13
minimum elong	-7503 Feb 12 j 23:51	29°♐24'55	16°22'44
max. Earth dist.	-7503 Feb 13 j 22:45	29°♐26'13	49.89694 AU
	-7503 Mar 11 j 05:46	0°♑	
retrograde	-7503 May 26 j 19:13	0°♑55'07	
	-7503 Aug 13 j 08:46	30°℞♐	
opposition	-7503 Aug 17 j 14:51	29°♐55'08	-17°00'26
min. Earth dist.	-7503 Aug 16 j 19:34	29°♐56'03	47.99401 AU
direct	-7503 Nov 06 j 20:25	28°♐55'46	
	-7502 Jan 28 j 03:41	0°♑	
conjunction	-7502 Feb 14 j 05:56	0°♑23'09	-16°18'02
minimum elong	-7502 Feb 14 j 06:03	0°♑23'10	16°18'32
max. Earth dist.	-7502 Feb 15 j 02:34	0°♑24'20	49.92125 AU
retrograde	-7502 May 27 j 22:06	1°♑53'15	
opposition	-7502 Aug 18 j 19:32	0°♑53'20	-16°55'56
min. Earth dist.	-7502 Aug 18 j 00:57	0°♑54'13	48.01500 AU
	-7502 Oct 15 j 14:52	30°℞♐	
direct	-7502 Nov 08 j 04:00	29°♐54'00	
	-7502 Dec 01 j 12:39	0°♑	
conjunction	-7501 Feb 15 j 12:01	1°♑21'19	-16°13'36
minimum elong	-7501 Feb 15 j 12:09	1°♑21'20	16°14'07
max. Earth dist.	-7501 Feb 16 j 07:08	1°♑22'25	49.94026 AU
retrograde	-7501 May 29 j 03:33	2°♑51'19	
min. Earth dist.	-7501 Aug 19 j 08:11	1°♑52'13	48.03062 AU
opposition	-7501 Aug 20 j 00:19	1°♑51'26	-16°51'12
direct	-7501 Nov 09 j 09:52	0°♑52'06	
conjunction	-7500 Feb 16 j 18:16	2°♑19'22	-16°08'57
minimum elong	-7500 Feb 16 j 18:24	2°♑19'22	16°09'26
max. Earth dist.	-7500 Feb 17 j 12:10	2°♑20'23	49.95414 AU
retrograde	-7500 May 29 j 09:44	3°♑49'14	
opposition	-7500 Aug 20 j 04:44	2°♑49'23	-16°46'13
min. Earth dist.	-7500 Aug 19 j 13:16	2°♑50'08	48.04106 AU
direct	-7500 Nov 09 j 13:57	1°♑50'02	
conjunction	-7499 Feb 17 j 00:22	3°♑17'14	-16°04'03
minimum elong	-7499 Feb 17 j 00:30	3°♑17'14	16°04'34
max. Earth dist.	-7499 Feb 17 j 15:47	3°♑18'07	49.96303 AU
retrograde	-7499 May 30 j 16:52	4°♑46'59	
opposition	-7499 Aug 21 j 09:19	3°♑47'09	-16°41'00
min. Earth dist.	-7499 Aug 20 j 19:37	3°♑47'48	48.04690 AU
direct	-7499 Nov 10 j 17:26	2°♑47'47	
conjunction	-7498 Feb 18 j 06:23	4°♑14'55	-15°58'55
minimum elong	-7498 Feb 18 j 06:31	4°♑14'56	15°59'25
max. Earth dist.	-7498 Feb 18 j 21:31	4°♑15'47	49.96756 AU
retrograde	-7498 May 31 j 19:59	5°♑44'33	
opposition	-7498 Aug 22 j 13:45	4°♑44'44	-16°35'31
min. Earth dist.	-7498 Aug 22 j 01:27	4°♑45'19	48.04857 AU
direct	-7498 Nov 12 j 00:16	3°♑45'20	
conjunction	-7497 Feb 19 j 12:17	5°♑12'26	-15°53'31
minimum elong	-7497 Feb 19 j 12:25	5°♑12'26	15°54'02
max. Earth dist.	-7497 Feb 20 j 01:23	5°♑13'11	49.96842 AU
retrograde	-7497 Jun 01 j 23:58	6°♑41'57	
opposition	-7497 Aug 23 j 18:02	5°♑42'09	-16°29'46
min. Earth dist.	-7497 Aug 23 j 06:06	5°♑42'43	48.04685 AU
direct	-7497 Nov 13 j 06:09	4°♑42'45	
conjunction	-7496 Feb 20 j 18:15	6°♑09'48	-15°47'51
minimum elong	-7496 Feb 20 j 18:24	6°♑09'48	15°48'21
max. Earth dist.	-7496 Feb 21 j 06:22	6°♑10'29	49.96596 AU
retrograde	-7496 Jun 02 j 04:21	7°♑39'15	
opposition	-7496 Aug 23 j 22:32	6°♑39'28	-16°23'45
min. Earth dist.	-7496 Aug 23 j 12:34	6°♑39'56	48.04197 AU
direct	-7496 Nov 13 j 12:06	5°♑40'03	
conjunction	-7495 Feb 21 j 00:16	7°♑07'05	-15°41'55
minimum elong	-7495 Feb 21 j 00:24	7°♑07'05	15°42'26
max. Earth dist.	-7495 Feb 21 j 11:44	7°♑07'44	49.96063 AU
retrograde	-7495 Jun 03 j 10:12	8°♑36'28	
opposition	-7495 Aug 25 j 02:45	7°♑36'43	-16°17'27
min. Earth dist.	-7495 Aug 24 j 17:01	7°♑37'11	48.03415 AU
direct	-7495 Nov 14 j 16:19	6°♑37'18	
conjunction	-7494 Feb 22 j 06:06	8°♑04'20	-15°35'44
minimum elong	-7494 Feb 22 j 06:16	8°♑04'21	15°36'14
max. Earth dist.	-7494 Feb 22 j 15:28	8°♑04'52	49.95242 AU
retrograde	-7494 Jun 04 j 18:31	9°♑33'40	
opposition	-7494 Aug 26 j 07:11	8°♑33'58	-16°10'53
min. Earth dist.	-7494 Aug 25 j 22:45	8°♑34'22	48.02351 AU
direct	-7494 Nov 15 j 17:55	7°♑34'34	
conjunction	-7493 Feb 23 j 11:58	9°♑01'38	-15°29'16
minimum elong	-7493 Feb 23 j 12:07	9°♑01'38	15°29'47
max. Earth dist.	-7493 Feb 23 j 21:15	9°♑02'09	49.94125 AU
retrograde	-7493 Jun 05 j 23:00	10°♑30'56	
opposition	-7493 Aug 27 j 11:34	9°♑31'17	-16°04'02
min. Earth dist.	-7493 Aug 27 j 04:31	9°♑31'37	48.00952 AU
direct	-7493 Nov 16 j 23:28	8°♑31'55	
conjunction	-7492 Feb 24 j 17:56	9°♑59'00	-15°22'33
minimum elong	-7492 Feb 24 j 18:07	9°♑59'01	15°23'04
max. Earth dist.	-7492 Feb 25 j 01:10	9°♑59'25	49.92663 AU
retrograde	-7492 Jun 06 j 02:33	11°♑28'17	
opposition	-7492 Aug 27 j 15:46	10°♑28'42	-15°56'56
min. Earth dist.	-7492 Aug 27 j 09:24	10°♑29'01	47.99179 AU
direct	-7492 Nov 17 j 05:38	9°♑29'21	

Attention, astronomical year style is used: The year -7491 in astronomical counting style is the year 7492 BCE in historical counting style.

conjunction	-7491 Feb 25 j 00:03	10°♑56'30	-15°15'36
minimum elong	-7491 Feb 25 j 00:12	10°♑56'30	15°16'06
max. Earth dist.	-7491 Feb 25 j 05:49	10°♑56'49	49.90774 AU
retrograde	-7491 Jun 07 j 07:27	12°♑25'47	
opposition	-7491 Aug 28 j 20:15	11°♑26'15	-15°49'36
min. Earth dist.	-7491 Aug 28 j 16:16	11°♑26'26	47.96947 AU
direct	-7491 Nov 18 j 11:28	10°♑26'55	
conjunction	-7490 Feb 26 j 06:05	11°♑54'06	-15°08'25
minimum elong	-7490 Feb 26 j 06:16	11°♑54'07	15°08'55
max. Earth dist.	-7490 Feb 26 j 10:41	11°♑54'22	49.88408 AU
retrograde	-7490 Jun 08 j 14:15	13°♑23'23	
opposition	-7490 Aug 30 j 00:36	12°♑23'53	-15°42'02
min. Earth dist.	-7490 Aug 29 j 21:18	12°♑24'03	47.94196 AU
direct	-7490 Nov 19 j 14:45	11°♑24'33	
conjunction	-7489 Feb 27 j 12:07	12°♑51'47	-15°01'00
minimum elong	-7489 Feb 27 j 12:18	12°♑51'47	15°01'30
max. Earth dist.	-7489 Feb 27 j 14:01	12°♑51'53	49.85506 AU
retrograde	-7489 Jun 09 j 21:48	14°♑21'03	
opposition	-7489 Aug 31 j 05:01	13°♑21'35	-15°34'13
min. Earth dist.	-7489 Aug 31 j 03:46	13°♑21'38	47.90911 AU
direct	-7489 Nov 20 j 17:25	12°♑22'13	
evening set	-7488 Feb 26 j 20:54	13°♑46'55	
conjunction	-7488 Feb 28 j 18:22	13°♑49'29	-14°53'22
minimum elong	-7488 Feb 28 j 18:33	13°♑49'30	14°53'53
max. Earth dist.	-7488 Feb 28 j 19:31	13°♑49'33	49.82066 AU
morning rise	-7488 Mar 01 j 16:15	13°♑52'05	
retrograde	-7488 Jun 10 j 01:57	15°♑18'43	
opposition	-7488 Aug 31 j 09:26	14°♑19'16	-15°26'12
min. Earth dist.	-7488 Aug 31 j 09:50	14°♑19'15	47.87077 AU
direct	-7488 Nov 20 j 23:48	13°♑19'52	
evening set	-7487 Feb 26 j 03:46	14°♑43'17	
conjunction	-7487 Mar 01 j 00:26	14°♑47'11	-14°45'30
minimum elong	-7487 Mar 01 j 00:37	14°♑47'11	14°46'00
max. Earth dist.	-7487 Feb 28 j 23:06	14°♑47'06	49.78111 AU
morning rise	-7487 Mar 03 j 21:32	14°♑51'06	
retrograde	-7487 Jun 11 j 05:51	16°♑16'23	
opposition	-7487 Sep 01 j 13:41	15°♑16'55	-15°17'56
min. Earth dist.	-7487 Sep 01 j 14:50	15°♑16'52	47.82756 AU
direct	-7487 Nov 22 j 06:14	14°♑17'28	
evening set	-7486 Feb 26 j 16:22	15°♑39'56	
conjunction	-7486 Mar 02 j 06:31	15°♑44'49	-14°37'24
minimum elong	-7486 Mar 02 j 06:42	15°♑44'50	14°37'55
max. Earth dist.	-7486 Mar 02 j 03:55	15°♑44'40	49.73683 AU
morning rise	-7486 Mar 05 j 21:07	15°♑49'44	
retrograde	-7486 Jun 12 j 09:21	17°♑14'01	
opposition	-7486 Sep 02 j 18:07	16°♑14'32	-15°09'25
min. Earth dist.	-7486 Sep 02 j 21:32	16°♑14'22	47.77997 AU
direct	-7486 Nov 23 j 12:43	15°♑15'02	
evening set	-7485 Feb 27 j 07:32	16°♑36'41	
conjunction	-7485 Mar 03 j 12:26	16°♑42'24	-14°29'04
minimum elong	-7485 Mar 03 j 12:38	16°♑42'25	14°29'33
max. Earth dist.	-7485 Mar 03 j 09:03	16°♑42'13	49.68861 AU
morning rise	-7485 Mar 07 j 17:48	16°♑48'09	
retrograde	-7485 Jun 13 j 14:31	18°♑11'35	
opposition	-7485 Sep 03 j 22:23	17°♑12'05	-15°00'38
min. Earth dist.	-7485 Sep 04 j 02:04	17°♑11'55	47.72856 AU
direct	-7485 Nov 24 j 17:49	16°♑12'32	
evening set	-7484 Feb 28 j 00:25	17°♑33'30	
conjunction	-7484 Mar 03 j 18:25	17°♑39'57	-14°20'28
minimum elong	-7484 Mar 03 j 18:36	17°♑39'58	14°20'58
max. Earth dist.	-7484 Mar 03 j 12:44	17°♑39'38	49.63677 AU
morning rise	-7484 Mar 08 j 12:58	17°♑46'27	
retrograde	-7484 Jun 13 j 23:25	19°♑09'08	
opposition	-7484 Sep 04 j 02:42	18°♑09'37	-14°51'36
min. Earth dist.	-7484 Sep 04 j 07:58	18°♑09'22	47.67387 AU
direct	-7484 Nov 24 j 19:01	17°♑10'00	
evening set	-7483 Feb 27 j 18:35	18°♑30'22	
conjunction	-7483 Mar 05 j 00:35	18°♑37'30	-14°11'37
minimum elong	-7483 Mar 05 j 00:47	18°♑37'31	14°12'06
max. Earth dist.	-7483 Mar 04 j 18:49	18°♑37'10	49.58179 AU
morning rise	-7483 Mar 10 j 07:05	18°♑44'40	
retrograde	-7483 Jun 15 j 04:56	20°♑06'41	
opposition	-7483 Sep 05 j 07:07	19°♑07'09	-14°42'18
min. Earth dist.	-7483 Sep 05 j 13:28	19°♑06'50	47.61602 AU
direct	-7483 Nov 25 j 23:45	18°♑07'29	
evening set	-7482 Feb 28 j 13:23	19°♑27'17	
conjunction	-7482 Mar 06 j 06:25	19°♑35'04	-14°02'30
minimum elong	-7482 Mar 06 j 06:36	19°♑35'04	14°03'00
max. Earth dist.	-7482 Mar 05 j 22:46	19°♑34'38	49.52391 AU
morning rise	-7482 Mar 11 j 23:59	19°♑42'51	
retrograde	-7482 Jun 16 j 08:52	21°♑04'16	
opposition	-7482 Sep 06 j 11:28	20°♑04'44	-14°32'43
min. Earth dist.	-7482 Sep 06 j 18:14	20°♑04'24	47.55530 AU
direct	-7482 Nov 27 j 05:26	19°♑05'02	
evening set	-7481 Mar 01 j 08:58	20°♑24'20	
conjunction	-7481 Mar 07 j 12:31	20°♑32'42	-13°53'07
minimum elong	-7481 Mar 07 j 12:44	20°♑32'43	13°53'37
max. Earth dist.	-7481 Mar 07 j 03:49	20°♑32'12	49.46295 AU
morning rise	-7481 Mar 13 j 16:40	20°♑41'06	
retrograde	-7481 Jun 17 j 11:44	22°♑01'57	
opposition	-7481 Sep 07 j 15:53	21°♑02'25	-14°22'52
min. Earth dist.	-7481 Sep 08 j 00:40	21°♑01'59	47.49135 AU
direct	-7481 Nov 28 j 12:47	20°♑02'41	
evening set	-7480 Mar 01 j 05:19	21°♑21'32	
conjunction	-7480 Mar 07 j 18:45	21°♑30'28	-13°43'29
minimum elong	-7480 Mar 07 j 18:56	21°♑30'28	13°43'59
max. Earth dist.	-7480 Mar 07 j 09:10	21°♑29'55	49.39870 AU
morning rise	-7480 Mar 14 j 08:42	21°♑39'26	
retrograde	-7480 Jun 17 j 17:24	22°♑59'46	
opposition	-7480 Sep 07 j 20:15	22°♑00'14	-14°12'46
min. Earth dist.	-7480 Sep 08 j 05:29	21°♑59'47	47.42366 AU
direct	-7480 Nov 28 j 17:41	21°♑00'28	
evening set	-7479 Mar 02 j 02:08	22°♑18'54	
conjunction	-7479 Mar 09 j 00:59	22°♑28'21	-13°33'37
minimum elong	-7479 Mar 09 j 01:12	22°♑28'22	13°34'06
max. Earth dist.	-7479 Mar 08 j 12:58	22°♑27'40	49.33029 AU
morning rise	-7479 Mar 16 j 00:29	22°♑37'52	
retrograde	-7479 Jun 19 j 01:19	23°♑57'44	
opposition	-7479 Sep 09 j 00:45	22°♑58'12	-14°02'25
min. Earth dist.	-7479 Sep 09 j 12:01	22°♑57'40	47.35164 AU
direct	-7479 Nov 29 j 19:55	21°♑58'23	
evening set	-7478 Mar 02 j 23:28	23°♑16'25	
conjunction	-7478 Mar 10 j 07:25	23°♑26'24	-13°23'30
minimum elong	-7478 Mar 10 j 07:37	23°♑26'25	13°23'58
max. Earth dist.	-7478 Mar 09 j 18:44	23°♑25'41	49.25723 AU
morning rise	-7478 Mar 17 j 15:52	23°♑36'26	
retrograde	-7478 Jun 20 j 07:07	24°♑55'51	
opposition	-7478 Sep 10 j 05:20	23°♑56'18	-13°51'49
min. Earth dist.	-7478 Sep 10 j 18:03	23°♑55'41	47.27457 AU
direct	-7478 Dec 01 j 01:14	22°♑56'26	
evening set	-7477 Mar 03 j 21:10	24°♑14'05	

Attention, astronomical year style is used: The year -7477 in astronomical counting style is the year 7478 BCE in historical counting style.

conjunction	-7477 Mar 11 j 13:40	24°♑24'35	-13°13'09
minimum elong	-7477 Mar 11 j 13:53	24°♑24'36	13°13'38
max. Earth dist.	-7477 Mar 10 j 22:28	24°♑23'43	49.17909 AU
morning rise	-7477 Mar 19 j 06:50	24°♑35'07	
retrograde	-7477 Jun 21 j 12:37	25°♑54'05	
opposition	-7477 Sep 11 j 09:56	24°♑54'30	-13°40'59
min. Earth dist.	-7477 Sep 11 j 23:39	24°♑53'51	47.19230 AU
direct	-7477 Dec 02 j 07:01	23°♑54'33	
evening set	-7476 Mar 03 j 19:15	25°♑11'52	
conjunction	-7476 Mar 11 j 20:14	25°♑22'51	-13°02'34
minimum elong	-7476 Mar 11 j 20:26	25°♑22'51	13°03'02
max. Earth dist.	-7476 Mar 11 j 03:28	25°♑21'53	49.09555 AU
morning rise	-7476 Mar 19 j 21:46	25°♑33'51	
retrograde	-7476 Jun 21 j 16:31	26°♑52'24	
opposition	-7476 Sep 11 j 14:35	25°♑52'47	-13°29'55
min. Earth dist.	-7476 Sep 12 j 06:46	25°♑52'00	47.10472 AU
direct	-7476 Dec 02 j 13:45	24°♑52'46	
evening set	-7475 Mar 04 j 17:49	26°♑09'44	
max. Earth dist.	-7475 Mar 12 j 08:49	26°♑20'08	49.00706 AU
conjunction	-7475 Mar 13 j 02:47	26°♑21'10	-12°51'45
minimum elong	-7475 Mar 13 j 03:00	26°♑21'11	12°52'15
morning rise	-7475 Mar 21 j 12:18	26°♑32'39	
retrograde	-7475 Jun 22 j 21:16	27°♑50'48	
opposition	-7475 Sep 12 j 19:12	26°♑51'08	-13°18'35
min. Earth dist.	-7475 Sep 13 j 11:51	26°♑50'20	47.01231 AU
direct	-7475 Dec 03 j 19:45	25°♑51'01	
evening set	-7474 Mar 05 j 16:19	27°♑07'39	
conjunction	-7474 Mar 14 j 09:04	27°♑19'33	-12°40'42
minimum elong	-7474 Mar 14 j 09:16	27°♑19'33	12°41'10
max. Earth dist.	-7474 Mar 13 j 12:41	27°♑18'23	48.91393 AU
morning rise	-7474 Mar 23 j 02:29	27°♑31'29	
retrograde	-7474 Jun 24 j 05:39	28°♑49'16	
opposition	-7474 Sep 13 j 23:55	27°♑49'32	-13°07'01
min. Earth dist.	-7474 Sep 14 j 18:22	27°♑48'38	46.91572 AU
direct	-7474 Dec 04 j 22:11	26°♑49'19	
evening set	-7473 Mar 06 j 15:11	28°♑05'39	
conjunction	-7473 Mar 15 j 15:38	28°♑18'00	-12°29'24
minimum elong	-7473 Mar 15 j 15:51	28°♑18'00	12°29'53
max. Earth dist.	-7473 Mar 14 j 19:04	28°♑16'49	48.81690 AU
morning rise	-7473 Mar 24 j 16:32	28°♑30'23	
retrograde	-7473 Jun 25 j 11:56	29°♑47'47	
opposition	-7473 Sep 15 j 04:32	28°♑48'00	-12°55'10
min. Earth dist.	-7473 Sep 16 j 00:09	28°♑47'03	46.81540 AU
direct	-7473 Dec 06 j 02:57	27°♑47'41	
evening set	-7472 Mar 06 j 14:26	29°♑03'45	
conjunction	-7472 Mar 15 j 22:07	29°♑16'32	-12°17'50
minimum elong	-7472 Mar 15 j 22:21	29°♑16'32	12°18'17
max. Earth dist.	-7472 Mar 14 j 23:30	29°♑15'14	48.71654 AU
morning rise	-7472 Mar 25 j 06:27	29°♑29'20	
	-7472 Apr 17 j 20:36	0°♒	
retrograde	-7472 Jun 25 j 17:51	0°♒46'25	
	-7472 Sep 03 j 16:47	30°℞♑	
opposition	-7472 Sep 15 j 09:16	29°♑46'34	-12°43'03
min. Earth dist.	-7472 Sep 16 j 05:24	29°♑45'36	46.71202 AU
direct	-7472 Dec 06 j 07:58	28°♑46'10	
	-7471 Mar 06 j 02:41	0°♒	
evening set	-7471 Mar 07 j 13:44	0°♒01'59	
max. Earth dist.	-7471 Mar 16 j 05:07	0°♒13'50	48.61312 AU
conjunction	-7471 Mar 17 j 04:43	0°♒15'11	-12°06'00
minimum elong	-7471 Mar 17 j 04:56	0°♒15'12	12°06'28
morning rise	-7471 Mar 26 j 20:13	0°♒28'26	
retrograde	-7471 Jun 26 j 20:28	1°♒45'12	
opposition	-7471 Sep 16 j 14:08	0°♒45'18	-12°30'40
min. Earth dist.	-7471 Sep 17 j 12:04	0°♒44'15	46.60578 AU
	-7471 Oct 30 j 16:53	30°℞♑	
direct	-7471 Dec 07 j 16:16	29°♑44'49	
	-7470 Jan 14 j 09:06	0°♒	
evening set	-7470 Mar 08 j 13:25	1°♒00'25	
max. Earth dist.	-7470 Mar 17 j 11:09	1°♒12'38	48.50718 AU
conjunction	-7470 Mar 18 j 11:20	1°♒14'02	-11°53'54
minimum elong	-7470 Mar 18 j 11:34	1°♒14'03	11°54'21
morning rise	-7470 Mar 28 j 09:44	1°♒27'41	
retrograde	-7470 Jun 28 j 01:48	2°♒44'11	
opposition	-7470 Sep 17 j 18:58	1°♒44'15	-12°17'59
min. Earth dist.	-7470 Sep 18 j 16:54	1°♒43'11	46.49694 AU
direct	-7470 Dec 08 j 22:05	0°♒43'41	
evening set	-7469 Mar 09 j 13:08	1°♒59'04	
conjunction	-7469 Mar 19 j 17:53	2°♒13'06	-11°41'31
minimum elong	-7469 Mar 19 j 18:05	2°♒13'07	11°41'59
max. Earth dist.	-7469 Mar 18 j 15:38	2°♒11'35	48.39852 AU
morning rise	-7469 Mar 29 j 23:14	2°♒27'10	
retrograde	-7469 Jun 29 j 10:28	3°♒43'25	
opposition	-7469 Sep 18 j 23:59	2°♒43'27	-12°05'01
min. Earth dist.	-7469 Sep 19 j 23:40	2°♒42'18	46.38533 AU
direct	-7469 Dec 10 j 00:00	1°♒42'49	
evening set	-7468 Mar 09 j 13:18	2°♒58'01	
max. Earth dist.	-7468 Mar 18 j 22:21	3°♒10'56	48.28684 AU
conjunction	-7468 Mar 20 j 00:50	3°♒12'27	-11°28'53
minimum elong	-7468 Mar 20 j 01:04	3°♒12'28	11°29'20
morning rise	-7468 Mar 30 j 12:42	3°♒26'56	
retrograde	-7468 Jun 29 j 17:25	4°♒42'56	
opposition	-7468 Sep 19 j 04:56	3°♒42'56	-11°51'47
min. Earth dist.	-7468 Sep 20 j 05:40	3°♒41'44	46.27029 AU
direct	-7468 Dec 10 j 05:11	2°♒42'14	
evening set	-7467 Mar 10 j 13:53	3°♒57'16	
max. Earth dist.	-7467 Mar 20 j 03:01	4°♒10'27	48.17154 AU
conjunction	-7467 Mar 21 j 07:45	4°♒12'07	-11°15'58
minimum elong	-7467 Mar 21 j 07:57	4°♒12'08	11°16'25
morning rise	-7467 Apr 01 j 02:10	4°♒27'00	
retrograde	-7467 Jul 01 j 00:50	5°♒42'46	
opposition	-7467 Sep 20 j 10:05	4°♒42'44	-11°38'16
min. Earth dist.	-7467 Sep 21 j 11:46	4°♒41'29	46.15139 AU
direct	-7467 Dec 11 j 10:30	3°♒41'57	
evening set	-7466 Mar 11 j 14:26	4°♒56'51	
max. Earth dist.	-7466 Mar 21 j 08:49	5°♒10'21	48.05182 AU
conjunction	-7466 Mar 22 j 14:45	5°♒12'05	-11°02'49
minimum elong	-7466 Mar 22 j 14:59	5°♒12'06	11°03'16
morning rise	-7466 Apr 02 j 15:27	5°♒27'21	
retrograde	-7466 Jul 02 j 05:46	6°♒42'55	
opposition	-7466 Sep 21 j 15:28	5°♒42'50	-11°24'30
min. Earth dist.	-7466 Sep 22 j 19:26	5°♒41'28	46.02779 AU
direct	-7466 Dec 12 j 17:52	4°♒41'57	
evening set	-7465 Mar 12 j 15:33	5°♒56'42	
conjunction	-7465 Mar 23 j 22:00	6°♒12'19	-10°49'25
minimum elong	-7465 Mar 23 j 22:12	6°♒12'20	10°49'50
max. Earth dist.	-7465 Mar 22 j 14:40	6°♒10'30	47.92736 AU
morning rise	-7465 Apr 04 j 04:45	6°♒27'58	
retrograde	-7465 Jul 03 j 10:12	7°♒43'20	
opposition	-7465 Sep 22 j 20:41	6°♒43'11	-11°10'29
min. Earth dist.	-7465 Sep 24 j 01:11	6°♒41'47	45.89919 AU
direct	-7465 Dec 14 j 01:22	5°♒42'11	
evening set	-7464 Mar 12 j 16:55	6°♒56'48	

Attention, astronomical year style is used: The year -7464 in astronomical counting style is the year 7465 BCE in historical counting style.

max. Earth dist.	-7464 Mar 22 j 19:22	7°♒10'49	47.79775 AU	
conjunction	-7464 Mar 24 j 05:22	7°♒12'47	-10°35'45	
minimum elong	-7464 Mar 24 j 05:35	7°♒12'48	10°36'12	
morning rise	-7464 Apr 04 j 18:15	7°♒28'49		
retrograde	-7464 Jul 03 j 18:19	8°♒43'59		
opposition	-7464 Sep 23 j 02:14	7°♒43'44	-10°56'11	
min. Earth dist.	-7464 Sep 24 j 08:57	7°♒42'14	45.76556 AU	
direct	-7464 Dec 14 j 05:39	6°♒42'36		
evening set	-7463 Mar 13 j 18:26	7°♒57'04		
max. Earth dist.	-7463 Mar 24 j 02:22	8°♒11'26	47.66321 AU	
conjunction	-7463 Mar 25 j 12:51	8°♒13'27	-10°21'51	
minimum elong	-7463 Mar 25 j 13:03	8°♒13'27	10°22'16	
morning rise	-7463 Apr 06 j 07:22	8°♒29'51		
retrograde	-7463 Jul 05 j 02:13	9°♒44'49		
opposition	-7463 Sep 24 j 07:45	8°♒44'28	-10°41'38	
min. Earth dist.	-7463 Sep 25 j 15:37	8°♒42'54	45.62710 AU	
direct	-7463 Dec 15 j 10:21	7°♒43'11		
evening set	-7462 Mar 14 j 20:16	8°♒57'32		
max. Earth dist.	-7462 Mar 25 j 07:23	9°♒12'07	47.52424 AU	
conjunction	-7462 Mar 26 j 20:15	9°♒14'16	-10°07'41	
minimum elong	-7462 Mar 26 j 20:27	9°♒14'17	10°08'07	
morning rise	-7462 Apr 07 j 20:35	9°♒31'02		
retrograde	-7462 Jul 06 j 10:45	10°♒45'48		
opposition	-7462 Sep 25 j 13:18	9°♒45'20	-10°26'49	
min. Earth dist.	-7462 Sep 26 j 22:05	9°♒43'44	45.48460 AU	
direct	-7462 Dec 16 j 14:50	8°♒43'54		
evening set	-7461 Mar 15 j 22:03	9°♒58'08		
max. Earth dist.	-7461 Mar 26 j 13:55	10°♒13'01	47.38127 AU	
conjunction	-7461 Mar 28 j 03:46	10°♒15'14	-9°53'15	
minimum elong	-7461 Mar 28 j 03:59	10°♒15'15	9°53'40	
morning rise	-7461 Apr 09 j 09:35	10°♒32'22		
retrograde	-7461 Jul 07 j 14:56	11°♒46'58		
opposition	-7461 Sep 26 j 19:04	10°♒46'23	-10°11'42	
min. Earth dist.	-7461 Sep 28 j 05:46	10°♒44'41	45.33836 AU	
direct	-7461 Dec 17 j 23:48	9°♒44'47		
evening set	-7460 Mar 16 j 00:21	10°♒58'56		
max. Earth dist.	-7460 Mar 26 j 20:42	11°♒14'07	47.23500 AU	
conjunction	-7460 Mar 28 j 11:27	11°♒16'24	-9°38'33	
minimum elong	-7460 Mar 28 j 11:39	11°♒16'24	9°38'58	
morning rise	-7460 Apr 09 j 22:37	11°♒33'52		
retrograde	-7460 Jul 07 j 19:35	12°♒48'19		
opposition	-7460 Sep 27 j 00:44	11°♒47'37	-9°56'18	
min. Earth dist.	-7460 Sep 28 j 11:36	11°♒45'54	45.18902 AU	
direct	-7460 Dec 18 j 08:09	10°♒45'52		
evening set	-7459 Mar 17 j 02:51	11°♒59'57		
max. Earth dist.	-7459 Mar 28 j 02:27	12°♒15'22	47.08573 AU	
conjunction	-7459 Mar 29 j 19:11	12°♒17'46	-9°23'35	
minimum elong	-7459 Mar 29 j 19:23	12°♒17'46	9°23'58	
morning rise	-7459 Apr 11 j 11:41	12°♒35'34		
retrograde	-7459 Jul 09 j 03:44	13°♒49'55		
opposition	-7459 Sep 28 j 06:47	12°♒49'07	-9°40'36	
min. Earth dist.	-7459 Sep 29 j 19:21	12°♒47'18	45.03703 AU	
direct	-7459 Dec 19 j 12:40	11°♒47'13		
evening set	-7458 Mar 18 j 05:20	13°♒01'15		
max. Earth dist.	-7458 Mar 29 j 10:13	13°♒17'00	46.93392 AU	
conjunction	-7458 Mar 31 j 02:57	13°♒19'24	-9°08'19	
minimum elong	-7458 Mar 31 j 03:09	13°♒19'25	9°08'43	
morning rise	-7458 Apr 13 j 00:23	13°♒37'34		
retrograde	-7458 Jul 10 j 11:05	14°♒51'49		
opposition	-7458 Sep 29 j 12:53	13°♒50'55	-9°24'37	
min. Earth dist.	-7458 Oct 01 j 01:58	13°♒49'04	44.88242 AU	
direct	-7458 Dec 20 j 18:56	12°♒48'53		
evening set	-7457 Mar 19 j 08:24	14°♒02'54		
max. Earth dist.	-7457 Mar 30 j 16:09	14°♒18'52	46.77961 AU	
conjunction	-7457 Apr 01 j 10:52	14°♒21'24	-8°52'46	
minimum elong	-7457 Apr 01 j 11:05	14°♒21'25	8°53'10	
morning rise	-7457 Apr 14 j 13:26	14°♒39'55		
	-7457 Apr 29 j 10:02	15°♒		
retrograde	-7457 Jul 11 j 20:57	15°♒54'05		
	-7457 Sep 24 j 23:22	15°℞♒		
opposition	-7457 Sep 30 j 18:57	14°♒53'05	-9°08'19	
min. Earth dist.	-7457 Oct 02 j 08:53	14°♒51'13	44.72528 AU	
direct	-7457 Dec 21 j 23:33	13°♒50'56		
	-7456 Mar 15 j 21:35	15°♒		
evening set	-7456 Mar 19 j 11:41	15°♒04'59		
max. Earth dist.	-7456 Mar 30 j 23:39	15°♒21'14	46.62236 AU	
conjunction	-7456 Apr 01 j 19:11	15°♒23'49	-8°36'56	
minimum elong	-7456 Apr 01 j 19:23	15°♒23'50	8°37'20	
morning rise	-7456 Apr 15 j 02:27	15°♒42'40		
retrograde	-7456 Jul 12 j 04:22	16°♒56'48		
opposition	-7456 Oct 01 j 01:24	15°♒55'43	-8°51'43	
min. Earth dist.	-7456 Oct 02 j 17:15	15°♒53'45	44.56493 AU	
	-7456 Nov 27 j 23:06	15°℞♒		
direct	-7456 Dec 22 j 07:16	14°♒53'26		
	-7455 Jan 15 j 14:22	15°♒		
evening set	-7455 Mar 20 j 15:21	16°♒07'32		
max. Earth dist.	-7455 Apr 01 j 06:47	16°♒24'03	46.46173 AU	
conjunction	-7455 Apr 03 j 03:30	16°♒26'43	-8°20'49	
minimum elong	-7455 Apr 03 j 03:42	16°♒26'44	8°21'13	
morning rise	-7455 Apr 16 j 15:25	16°♒45'54		
retrograde	-7455 Jul 13 j 10:32	18°♒00'00		
opposition	-7455 Oct 02 j 07:50	16°♒58'51	-8°34'50	
min. Earth dist.	-7455 Oct 03 j 24:00	16°♒56'51	44.40086 AU	
direct	-7455 Dec 23 j 15:32	15°♒56'26		
evening set	-7454 Mar 21 j 19:20	17°♒10'35		
max. Earth dist.	-7454 Apr 02 j 12:59	17°♒27'17	46.29690 AU	
conjunction	-7454 Apr 04 j 12:02	17°♒30'06	-8°04'26	
minimum elong	-7454 Apr 04 j 12:13	17°♒30'06	8°04'49	
morning rise	-7454 Apr 18 j 04:32	17°♒49'37		
retrograde	-7454 Jul 14 j 18:41	19°♒03'43		
opposition	-7454 Oct 03 j 14:34	18°♒02'28	-8°17'40	
min. Earth dist.	-7454 Oct 05 j 09:02	18°♒00'21	44.23243 AU	
direct	-7454 Dec 24 j 21:34	16°♒59'55		
evening set	-7453 Mar 22 j 23:31	18°♒14'07		
max. Earth dist.	-7453 Apr 03 j 21:14	18°♒31'06	46.12746 AU	
conjunction	-7453 Apr 05 j 20:48	18°♒33'58	-7°47'46	
minimum elong	-7453 Apr 05 j 21:00	18°♒33'58	7°48'09	
morning rise	-7453 Apr 19 j 17:33	18°♒53'48		
retrograde	-7453 Jul 16 j 04:01	20°♒07'55		
opposition	-7453 Oct 04 j 21:29	19°♒06'33	-8°00'12	
min. Earth dist.	-7453 Oct 06 j 16:57	19°♒04'22	44.05902 AU	
direct	-7453 Dec 26 j 03:19	18°♒03'49		
evening set	-7452 Mar 23 j 04:18	19°♒18'06		
max. Earth dist.	-7452 Apr 04 j 03:22	19°♒35'15	45.95301 AU	
conjunction	-7452 Apr 06 j 05:43	19°♒38'16	-7°30'51	
minimum elong	-7452 Apr 06 j 05:53	19°♒38'17	7°31'12	
morning rise	-7452 Apr 20 j 06:49	19°♒58'26		
retrograde	-7452 Jul 16 j 15:07	21°♒12'34		
opposition	-7452 Oct 05 j 04:27	20°♒11'03	-7°42'27	
min. Earth dist.	-7452 Oct 07 j 01:19	20°♒08'48	43.88077 AU	
direct	-7452 Dec 26 j 07:52	19°♒08'09		

Attention, astronomical year style is used: The year -7451 in astronomical counting style is the year 7452 BCE in historical counting style.

evening set	-7451 Mar 24 j 09:12	20°♒22'30	
max. Earth dist.	-7451 Apr 05 j 11:29	20°♒39'54	45.77365 AU
conjunction	-7451 Apr 07 j 14:54	20°♒43'00	-7°13'38
minimum elong	-7451 Apr 07 j 15:05	20°♒43'00	7°14'01
morning rise	-7451 Apr 21 j 19:55	21°♒03'28	
retrograde	-7451 Jul 17 j 22:31	22°♒17'36	
opposition	-7451 Oct 06 j 11:45	21°♒15'57	-7°24'25
min. Earth dist.	-7451 Oct 08 j 10:31	21°♒13'35	43.69779 AU
direct	-7451 Dec 27 j 17:11	20°♒12'51	
evening set	-7450 Mar 25 j 14:18	21°♒27'18	
max. Earth dist.	-7450 Apr 06 j 19:13	21°♒44'54	45.58998 AU
conjunction	-7450 Apr 08 j 23:54	21°♒48'06	-6°56'10
minimum elong	-7450 Apr 09 j 00:05	21°♒48'07	6°56'31
morning rise	-7450 Apr 23 j 08:54	22°♒08'53	
retrograde	-7450 Jul 19 j 05:03	23°♒23'02	
opposition	-7450 Oct 07 j 19:01	22°♒21'12	-7°06'05
min. Earth dist.	-7450 Oct 09 j 18:09	22°♒18'49	43.51076 AU
direct	-7450 Dec 29 j 03:46	21°♒17'53	
evening set	-7449 Mar 26 j 19:49	22°♒32'27	
max. Earth dist.	-7449 Apr 08 j 02:34	22°♒50'14	45.40234 AU
conjunction	-7449 Apr 10 j 09:16	22°♒53'34	-6°38'24
minimum elong	-7449 Apr 10 j 09:27	22°♒53'35	6°38'45
morning rise	-7449 Apr 24 j 22:03	23°♒14'39	
retrograde	-7449 Jul 20 j 12:43	24°♒28'51	
opposition	-7449 Oct 09 j 02:26	23°♒26'50	-6°47'26
min. Earth dist.	-7449 Oct 11 j 03:43	23°♒24'20	43.32023 AU
direct	-7449 Dec 30 j 11:45	22°♒23'18	
evening set	-7448 Mar 27 j 01:39	23°♒37'59	
max. Earth dist.	-7448 Apr 08 j 11:59	23°♒56'02	45.21151 AU
conjunction	-7448 Apr 10 j 18:53	23°♒59'24	-6°20'20
minimum elong	-7448 Apr 10 j 19:03	23°♒59'24	6°20'40
morning rise	-7448 Apr 25 j 11:09	24°♒20'47	
retrograde	-7448 Jul 20 j 20:44	25°♒35'03	
opposition	-7448 Oct 09 j 10:07	24°♒32'52	-6°28'28
min. Earth dist.	-7448 Oct 11 j 11:41	24°♒30'20	43.12673 AU
direct	-7448 Dec 30 j 20:09	23°♒29'06	
evening set	-7447 Mar 28 j 07:50	24°♒43'55	
max. Earth dist.	-7447 Apr 09 j 19:28	25°♒02'08	45.01798 AU
conjunction	-7447 Apr 12 j 04:25	25°♒05'37	-6°01'59
minimum elong	-7447 Apr 12 j 04:34	25°♒05'38	6°02'20
morning rise	-7447 Apr 27 j 00:14	25°♒27'19	
retrograde	-7447 Jul 22 j 08:47	26°♒41'39	
opposition	-7447 Oct 10 j 17:58	25°♒39'17	-6°09'12
min. Earth dist.	-7447 Oct 12 j 20:33	25°♒36'43	42.93093 AU
direct	-7446 Jan 01 j 01:10	24°♒35'18	
evening set	-7446 Mar 29 j 14:14	25°♒50'18	
max. Earth dist.	-7446 Apr 11 j 05:08	26°♒08'47	44.82220 AU
conjunction	-7446 Apr 13 j 14:19	26°♒12'18	-5°43'20
minimum elong	-7446 Apr 13 j 14:28	26°♒12'19	5°43'39
morning rise	-7446 Apr 28 j 13:14	26°♒34'16	
retrograde	-7446 Jul 23 j 19:25	27°♒48'44	
opposition	-7446 Oct 12 j 02:03	26°♒46'11	-5°49'36
min. Earth dist.	-7446 Oct 14 j 05:54	26°♒43'32	42.73303 AU
direct	-7445 Jan 02 j 09:06	25°♒41'59	
evening set	-7445 Mar 30 j 21:04	26°♒57'11	
max. Earth dist.	-7445 Apr 12 j 13:56	27°♒15'53	44.62452 AU
conjunction	-7445 Apr 15 j 00:18	27°♒19'29	-5°24'23
minimum elong	-7445 Apr 15 j 00:26	27°♒19'30	5°24'43
morning rise	-7445 Apr 30 j 02:27	27°♒41'45	
retrograde	-7445 Jul 25 j 05:19	28°♒56'20	
opposition	-7445 Oct 13 j 10:16	27°♒53'38	-5°29'42
min. Earth dist.	-7445 Oct 15 j 14:08	27°♒50'58	42.53313 AU
direct	-7444 Jan 03 j 18:09	26°♒49'13	
evening set	-7444 Mar 31 j 04:24	28°♒04'39	
max. Earth dist.	-7444 Apr 12 j 22:44	28°♒23'31	44.42449 AU
conjunction	-7444 Apr 15 j 10:39	28°♒27'15	-5°05'08
minimum elong	-7444 Apr 15 j 10:48	28°♒27'15	5°05'26
morning rise	-7444 Apr 30 j 15:42	28°♒49'47	
	-7444 Jul 05 j 23:41	0°♓	
retrograde	-7444 Jul 25 j 13:00	0°♓04'33	
	-7444 Aug 14 j 04:04	30°℞♒	
opposition	-7444 Oct 13 j 18:47	29°♒01'40	-5°09'27
min. Earth dist.	-7444 Oct 16 j 00:39	28°♒58'54	42.33083 AU
direct	-7443 Jan 04 j 04:15	27°♒57'03	
evening set	-7443 Apr 01 j 12:07	29°♒12'45	
max. Earth dist.	-7443 Apr 14 j 09:13	29°♒31'52	44.22187 AU
conjunction	-7443 Apr 16 j 21:18	29°♒35'37	-4°45'35
minimum elong	-7443 Apr 16 j 21:25	29°♒35'38	4°45'54
morning rise	-7443 May 02 j 05:01	29°♒58'26	
	-7443 May 03 j 06:42	0°♓	
retrograde	-7443 Jul 26 j 21:35	1°♓13'24	
opposition	-7443 Oct 15 j 03:33	0°♓10'22	-4°48'54
min. Earth dist.	-7443 Oct 17 j 09:48	0°♓07'33	42.12559 AU
	-7443 Oct 23 j 12:35	30°℞♒	
direct	-7442 Jan 05 j 13:57	29°♒05'32	
	-7442 Mar 18 j 14:59	0°♓	
evening set	-7442 Apr 02 j 20:13	0°♓21'30	
max. Earth dist.	-7442 Apr 15 j 17:27	0°♓40'43	44.01591 AU
conjunction	-7442 Apr 18 j 07:56	0°♓44'39	-4°25'45
minimum elong	-7442 Apr 18 j 08:04	0°♓44'40	4°26'02
morning rise	-7442 May 03 j 18:22	1°♓07'44	
retrograde	-7442 Jul 28 j 10:02	2°♓22'55	
opposition	-7442 Oct 16 j 12:35	1°♓19'42	-4°28'02
min. Earth dist.	-7442 Oct 18 j 20:26	1°♓16'48	41.91687 AU
direct	-7441 Jan 06 j 20:01	0°♓14'39	
evening set	-7441 Apr 04 j 04:50	1°♓30'55	
max. Earth dist.	-7441 Apr 17 j 04:05	1°♓50'21	43.80602 AU
conjunction	-7441 Apr 19 j 19:12	1°♓54'20	-4°05'36
minimum elong	-7441 Apr 19 j 19:19	1°♓54'21	4°05'53
morning rise	-7441 May 05 j 07:51	2°♓17'42	
retrograde	-7441 Jul 29 j 21:13	3°♓33'07	
opposition	-7441 Oct 17 j 21:52	2°♓29'42	-4°06'50
min. Earth dist.	-7441 Oct 20 j 07:14	2°♓26'42	41.70400 AU
direct	-7440 Jan 08 j 05:20	1°♓24'24	
evening set	-7440 Apr 04 j 14:06	2°♓40'59	
max. Earth dist.	-7440 Apr 17 j 13:40	3°♓00'33	43.59203 AU
conjunction	-7440 Apr 20 j 06:38	3°♓04'40	-3°45'10
minimum elong	-7440 Apr 20 j 06:45	3°♓04'40	3°45'27
morning rise	-7440 May 05 j 21:38	3°♓28'17	
retrograde	-7440 Jul 30 j 09:40	4°♓43'56	
opposition	-7440 Oct 18 j 07:25	3°♓40'19	-3°45'20
min. Earth dist.	-7440 Oct 20 j 17:27	3°♓37'17	41.48706 AU
direct	-7439 Jan 08 j 15:41	2°♓34'45	
evening set	-7439 Apr 05 j 23:35	3°♓51'41	
max. Earth dist.	-7439 Apr 18 j 23:36	4°♓11'22	43.37377 AU
conjunction	-7439 Apr 21 j 18:17	4°♓15'37	-3°24'27
minimum elong	-7439 Apr 21 j 18:23	4°♓15'38	3°24'43
morning rise	-7439 May 07 j 11:10	4°♓39'29	
retrograde	-7439 Jul 31 j 20:25	5°♓55'24	
opposition	-7439 Oct 19 j 17:19	4°♓51'33	-3°23'31
min. Earth dist.	-7439 Oct 22 j 05:32	4°♓48'23	41.26616 AU

Attention, astronomical year style is used: The year -7438 in astronomical counting style is the year 7439 BCE in historical counting style.

direct	-7438 Jan 10 j 02:46	3°♓45'43	
evening set	-7438 Apr 07 j 09:31	5°♓03'00	
max. Earth dist.	-7438 Apr 20 j 10:58	5°♓22'52	43.15188 AU
conjunction	-7438 Apr 23 j 06:11	5°♓27'11	-3°03'26
minimum elong	-7438 Apr 23 j 06:16	5°♓27'11	3°03'42
morning rise	-7438 May 09 j 00:53	5°♓51'17	
retrograde	-7438 Aug 02 j 05:40	7°♓07'29	
opposition	-7438 Oct 21 j 03:16	6°♓03'24	-3°01'23
min. Earth dist.	-7438 Oct 23 j 15:39	6°♓00'13	41.04185 AU
direct	-7437 Jan 11 j 14:31	4°♓57'16	
evening set	-7437 Apr 08 j 19:57	6°♓14'56	
max. Earth dist.	-7437 Apr 21 j 20:48	6°♓34'53	42.92674 AU
conjunction	-7437 Apr 24 j 18:14	6°♓39'22	-2°42'07
minimum elong	-7437 Apr 24 j 18:19	6°♓39'22	2°42'22
morning rise	-7437 May 10 j 14:40	7°♓03'42	
retrograde	-7437 Aug 03 j 17:53	8°♓20'13	
opposition	-7437 Oct 22 j 13:36	7°♓15'53	-2°38'56
min. Earth dist.	-7437 Oct 25 j 03:37	7°♓12'36	40.81475 AU
direct	-7436 Jan 12 j 23:11	6°♓09'28	
evening set	-7436 Apr 09 j 06:46	7°♓27'32	
max. Earth dist.	-7436 Apr 22 j 09:19	7°♓47'42	42.69893 AU
conjunction	-7436 Apr 25 j 06:42	7°♓52'12	-2°20'31
minimum elong	-7436 Apr 25 j 06:46	7°♓52'12	2°20'45
morning rise	-7436 May 11 j 04:21	8°♓16'46	
retrograde	-7436 Aug 04 j 06:24	9°♓33'37	
opposition	-7436 Oct 23 j 00:13	8°♓29'02	-2°16'09
min. Earth dist.	-7436 Oct 25 j 15:03	8°♓25'42	40.58532 AU
direct	-7435 Jan 13 j 08:45	7°♓22'19	
evening set	-7435 Apr 10 j 18:12	8°♓40'50	
max. Earth dist.	-7435 Apr 23 j 20:20	9°♓01'05	42.46922 AU
conjunction	-7435 Apr 26 j 19:14	9°♓05'43	-1°58'37
minimum elong	-7435 Apr 26 j 19:18	9°♓05'43	1°58'50
morning rise	-7435 May 12 j 18:14	9°♓30'30	
retrograde	-7435 Aug 05 j 21:00	10°♓47'45	
opposition	-7435 Oct 24 j 11:08	9°♓42'54	-1°53'03
min. Earth dist.	-7435 Oct 27 j 02:09	9°♓39'33	40.35443 AU
direct	-7434 Jan 14 j 17:44	8°♓35'54	
evening set	-7434 Apr 12 j 05:51	9°♓54'53	
max. Earth dist.	-7434 Apr 25 j 08:29	10°♓15'18	42.23800 AU
conjunction	-7434 Apr 28 j 08:04	10°♓20'00	-1°36'25
minimum elong	-7434 Apr 28 j 08:07	10°♓20'00	1°36'38
morning rise	-7434 May 14 j 07:53	10°♓45'00	
retrograde	-7434 Aug 07 j 08:59	12°♓02'39	
opposition	-7434 Oct 25 j 22:29	10°♓57'34	-1°29'38
min. Earth dist.	-7434 Oct 28 j 14:58	10°♓54'07	40.12228 AU
direct	-7433 Jan 16 j 06:44	9°♓50'17	
evening set	-7433 Apr 13 j 18:18	11°♓09'47	
max. Earth dist.	-7433 Apr 26 j 21:35	11°♓30'22	42.00574 AU
conjunction	-7433 Apr 29 j 21:20	11°♓35'07	-1°13'56
minimum elong	-7433 Apr 29 j 21:22	11°♓35'07	1°14'08
morning rise	-7433 May 15 j 21:55	12°♓00'19	
retrograde	-7433 Aug 08 j 20:42	13°♓18'25	
opposition	-7433 Oct 27 j 09:54	12°♓13'06	-1°05'54
min. Earth dist.	-7433 Oct 30 j 02:10	12°♓09'38	39.88910 AU
direct	-7432 Jan 17 j 20:35	11°♓05'32	
evening set	-7432 Apr 14 j 07:28	12°♓25'37	
max. Earth dist.	-7432 Apr 27 j 09:27	12°♓46'15	41.77220 AU
conjunction	-7432 Apr 30 j 11:00	12°♓51'09	-0°51'09
minimum elong	-7432 Apr 30 j 11:02	12°♓51'09	0°51'22
morning rise	-7432 May 16 j 12:06	13°♓16'33	
retrograde	-7432 Aug 09 j 10:10	14°♓35'09	
opposition	-7432 Oct 27 j 21:55	13°♓29'36	-0°41'50
min. Earth dist.	-7432 Oct 30 j 15:50	13°♓26'02	39.65470 AU
direct	-7431 Jan 18 j 07:10	12°♓21'45	
evening set	-7431 Apr 15 j 20:59	13°♓42'26	
max. Earth dist.	-7431 Apr 28 j 23:40	14°♓03'15	41.53711 AU
conjunction	-7431 May 02 j 00:58	14°♓08'10	-0°28'05
minimum elong	-7431 May 02 j 00:59	14°♓08'10	0°28'17
morning rise	-7431 May 18 j 02:11	14°♓33'45	
retrograde	-7431 Aug 10 j 23:00	15°♓52'53	
opposition	-7431 Oct 29 j 10:17	14°♓47'07	-0°17'28
min. Earth dist.	-7431 Nov 01 j 04:36	14°♓43'30	39.41846 AU
direct	-7430 Jan 19 j 19:24	13°♓38'59	
evening set	-7430 Apr 17 j 11:25	15°♓00'18	
max. Earth dist.	-7430 Apr 30 j 12:04	15°♓21'08	41.29990 AU
conjunction	-7430 May 03 j 15:18	15°♓26'12	-0°04'48
minimum elong	-7430 May 03 j 15:18	15°♓26'12	0°04'59
behind sun begin	-7430 May 03 j 08:58	15°♓25'48	
behind sun end	-7430 May 03 j 21:39	15°♓26'36	
morning rise	-7430 May 19 j 16:40	15°♓51'58	
asc. node	-7430 Jul 16 j 13:21	17°♓02'16	
retrograde	-7430 Aug 12 j 16:12	17°♓11'40	
opposition	-7430 Oct 30 j 22:53	16°♓05'39	0°07'12
min. Earth dist.	-7430 Nov 02 j 18:12	16°♓01'59	39.17998 AU
direct	-7429 Jan 21 j 04:49	14°♓57'14	
evening set	-7429 Apr 19 j 02:22	16°♓19'13	
max. Earth dist.	-7429 May 02 j 02:18	16°♓40'08	41.05985 AU
conjunction	-7429 May 05 j 06:15	16°♓45'17	0°18'55
minimum elong	-7429 May 05 j 06:14	16°♓45'17	0°18'46
morning rise	-7429 May 21 j 07:11	17°♓11'13	
retrograde	-7429 Aug 14 j 08:33	18°♓31'30	
opposition	-7429 Nov 01 j 12:10	17°♓25'13	0°32'11
min. Earth dist.	-7429 Nov 04 j 09:14	17°♓21'26	38.93848 AU
direct	-7428 Jan 22 j 16:54	16°♓16'29	
evening set	-7428 Apr 19 j 18:11	17°♓39'10	
max. Earth dist.	-7428 May 02 j 16:22	18°♓00'07	40.81675 AU
conjunction	-7428 May 05 j 21:29	18°♓05'24	0°42'49
minimum elong	-7428 May 05 j 21:28	18°♓05'23	0°42'39
morning rise	-7428 May 21 j 21:57	18°♓31'28	
retrograde	-7428 Aug 15 j 00:09	19°♓52'22	
opposition	-7428 Nov 02 j 01:41	18°♓45'48	0°57'28
min. Earth dist.	-7428 Nov 04 j 22:55	18°♓41'59	38.69395 AU
direct	-7427 Jan 23 j 07:38	17°♓36'43	
evening set	-7427 Apr 21 j 10:37	19°♓00'07	
max. Earth dist.	-7427 May 04 j 06:11	19°♓21'03	40.57043 AU
conjunction	-7427 May 07 j 13:11	19°♓26'30	1°06'59
minimum elong	-7427 May 07 j 13:09	19°♓26'29	1°06'50
morning rise	-7427 May 23 j 12:46	19°♓52'42	
retrograde	-7427 Aug 16 j 14:43	21°♓14'14	
opposition	-7427 Nov 03 j 15:48	20°♓07'21	1°23'02
min. Earth dist.	-7427 Nov 06 j 14:59	20°♓03'24	38.44652 AU
direct	-7426 Jan 24 j 22:48	18°♓57'55	
evening set	-7426 Apr 23 j 03:30	20°♓22'04	
max. Earth dist.	-7426 May 05 j 22:11	20°♓43'05	40.32136 AU
conjunction	-7426 May 09 j 05:09	20°♓48'34	1°31'25
minimum elong	-7426 May 09 j 05:05	20°♓48'33	1°31'16
morning rise	-7426 May 25 j 03:36	21°♓14'53	
retrograde	-7426 Aug 18 j 04:17	22°♓37'05	
opposition	-7426 Nov 05 j 06:11	21°♓29'53	1°48'54
min. Earth dist.	-7426 Nov 08 j 05:36	21°♓25'53	38.19651 AU
direct	-7425 Jan 26 j 14:45	20°♓20'04	

Attention, astronomical year style is used: The year -7425 in astronomical counting style is the year 7426 BCE in historical counting style.

evening set	-7425 Apr 24 j 21:23	21°♓44'59	
max. Earth dist.	-7425 May 07 j 12:30	22°♓05'55	40.06987 AU
conjunction	-7425 May 10 j 21:33	22°♓11'35	1°56'06
minimum elong	-7425 May 10 j 21:29	22°♓11'35	1°55'59
morning rise	-7425 May 26 j 18:43	22°♓38'01	
retrograde	-7425 Aug 19 j 21:15	24°♓00'55	
opposition	-7425 Nov 06 j 20:53	22°♓53'22	2°15'03
min. Earth dist.	-7425 Nov 09 j 21:35	22°♓49'18	37.94463 AU
direct	-7424 Jan 28 j 03:33	21°♓43'09	
evening set	-7424 Apr 25 j 15:50	23°♓08'54	
max. Earth dist.	-7424 May 08 j 05:32	23°♓29'53	39.81658 AU
conjunction	-7424 May 11 j 14:31	23°♓35'36	2°21'02
minimum elong	-7424 May 11 j 14:26	23°♓35'35	2°20'55
morning rise	-7424 May 27 j 09:47	24°♓02'06	
retrograde	-7424 Aug 20 j 13:29	25°♓25'45	
opposition	-7424 Nov 07 j 12:17	24°♓17'51	2°41'28
min. Earth dist.	-7424 Nov 10 j 13:44	24°♓13'43	37.69137 AU
direct	-7423 Jan 28 j 18:17	23°♓07'15	
evening set	-7423 Apr 27 j 11:01	24°♓33'51	
max. Earth dist.	-7423 May 09 j 21:37	24°♓54'48	39.56232 AU
conjunction	-7423 May 13 j 07:31	25°♓00'37	2°46'11
minimum elong	-7423 May 13 j 07:25	25°♓00'37	2°46'06
morning rise	-7423 May 29 j 00:53	25°♓27'11	
retrograde	-7423 Aug 22 j 09:04	26°♓51'38	
opposition	-7423 Nov 09 j 03:59	25°♓43'23	3°08'08
min. Earth dist.	-7423 Nov 12 j 05:17	25°♓39'14	37.43763 AU
direct	-7422 Jan 30 j 08:57	24°♓32'22	
evening set	-7422 Apr 29 j 06:56	25°♓59'55	
max. Earth dist.	-7422 May 11 j 14:44	26°♓20'50	39.30757 AU
conjunction	-7422 May 15 j 01:13	26°♓26'44	3°11'34
minimum elong	-7422 May 15 j 01:07	26°♓26'43	3°11'29
morning rise	-7422 May 30 j 16:05	26°♓53'21	
retrograde	-7422 Aug 24 j 03:29	28°♓18'39	
opposition	-7422 Nov 10 j 20:13	27°♓10'03	3°35'03
min. Earth dist.	-7422 Nov 13 j 22:55	27°♓05'47	37.18385 AU
direct	-7421 Feb 01 j 00:31	25°♓58'39	
evening set	-7421 May 01 j 03:45	27°♓27'11	
max. Earth dist.	-7421 May 13 j 09:05	27°♓48'05	39.05301 AU
conjunction	-7421 May 16 j 19:21	27°♓54'02	3°37'09
minimum elong	-7421 May 16 j 19:13	27°♓54'01	3°37'05
morning rise	-7421 Jun 01 j 07:33	28°♓20'40	
retrograde	-7421 Aug 25 j 20:51	29°♓46'52	
opposition	-7421 Nov 12 j 12:56	28°♓37'56	4°02'12
min. Earth dist.	-7421 Nov 15 j 15:01	28°♓33'41	36.93033 AU
direct	-7420 Feb 02 j 18:52	27°♓26'10	
evening set	-7420 May 02 j 01:28	28°♓55'45	
max. Earth dist.	-7420 May 14 j 02:15	29°♓16'31	38.79856 AU
conjunction	-7420 May 17 j 13:57	29°♓22'37	4°02'56
minimum elong	-7420 May 17 j 13:49	29°♓22'36	4°02'53
morning rise	-7420 Jun 01 j 23:05	29°♓49'16	
	-7420 Jun 08 j 08:14	0°♈	
retrograde	-7420 Aug 26 j 15:30	1°♈16'26	
opposition	-7420 Nov 13 j 06:16	0°♈07'11	4°29'33
min. Earth dist.	-7420 Nov 16 j 09:33	0°♈02'50	36.67714 AU
	-7420 Nov 18 j 10:58	30°♓℞	
direct	-7419 Feb 03 j 11:01	28°♓55'02	
	-7419 Apr 18 j 09:47	0°♈	
evening set	-7419 May 04 j 00:00	0°♈25'44	
max. Earth dist.	-7419 May 15 j 22:15	0°♈46'30	38.54418 AU
conjunction	-7419 May 19 j 09:11	0°♈52'36	4°28'53
minimum elong	-7419 May 19 j 09:01	0°♈52'35	4°28'50
morning rise	-7419 Jun 03 j 14:45	1°♈19'14	
retrograde	-7419 Aug 28 j 09:46	2°♈47'26	
opposition	-7419 Nov 15 j 00:11	1°♈37'52	4°57'06
min. Earth dist.	-7419 Nov 18 j 03:34	1°♈33'30	36.42386 AU
direct	-7418 Feb 05 j 03:57	0°♈25'22	
evening set	-7418 May 05 j 23:32	1°♈57'14	
max. Earth dist.	-7418 May 17 j 16:23	2°♈17'48	38.28944 AU
conjunction	-7418 May 21 j 04:44	2°♈24'03	4°55'00
minimum elong	-7418 May 21 j 04:33	2°♈24'02	4°54'59
morning rise	-7418 Jun 05 j 06:38	2°♈50'39	
retrograde	-7418 Aug 30 j 07:22	4°♈19'57	
opposition	-7418 Nov 16 j 18:36	3°♈10'03	5°24'50
min. Earth dist.	-7418 Nov 19 j 22:36	3°♈05'37	36.17014 AU
direct	-7417 Feb 06 j 19:40	1°♈57'10	
evening set	-7417 May 08 j 00:05	3°♈30'17	
max. Earth dist.	-7417 May 19 j 12:39	3°♈50'43	38.03368 AU
conjunction	-7417 May 23 j 01:13	3°♈57'02	5°21'17
minimum elong	-7417 May 23 j 01:00	3°♈57'01	5°21'15
morning rise	-7417 Jun 06 j 22:40	4°♈23'34	
retrograde	-7417 Sep 01 j 04:51	5°♈54'01	
opposition	-7417 Nov 18 j 13:44	4°♈43'46	5°52'45
min. Earth dist.	-7417 Nov 21 j 18:59	4°♈39'14	35.91535 AU
direct	-7416 Feb 08 j 13:45	3°♈30'29	
evening set	-7416 May 09 j 01:50	5°♈04'54	
max. Earth dist.	-7416 May 20 j 08:53	5°♈25'07	37.77684 AU
conjunction	-7416 May 23 j 22:09	5°♈31'32	5°47'41
minimum elong	-7416 May 23 j 21:56	5°♈31'31	5°47'41
morning rise	-7416 Jun 07 j 15:04	5°♈57'58	
retrograde	-7416 Sep 02 j 04:39	7°♈29'37	
opposition	-7416 Nov 19 j 09:29	6°♈19'00	6°20'49
min. Earth dist.	-7416 Nov 22 j 14:29	6°♈14'28	35.65953 AU
direct	-7415 Feb 09 j 09:14	5°♈05'19	
evening set	-7415 May 11 j 04:22	6°♈41'04	
max. Earth dist.	-7415 May 22 j 05:16	7°♈01'01	37.51869 AU
conjunction	-7415 May 25 j 19:37	7°♈07'35	6°14'12
minimum elong	-7415 May 25 j 19:23	7°♈07'34	6°14'12
morning rise	-7415 Jun 09 j 07:21	7°♈33'52	
retrograde	-7415 Sep 04 j 02:26	9°♈06'46	
opposition	-7415 Nov 21 j 05:57	7°♈55'46	6°49'01
min. Earth dist.	-7415 Nov 24 j 12:34	7°♈51'07	35.40273 AU
direct	-7414 Feb 11 j 05:03	6°♈41'39	
evening set	-7414 May 13 j 08:03	8°♈18'47	
max. Earth dist.	-7414 May 24 j 03:47	8°♈38'32	37.25973 AU
conjunction	-7414 May 27 j 17:45	8°♈45'08	6°40'49
minimum elong	-7414 May 27 j 17:30	8°♈45'07	6°40'50
morning rise	-7414 Jun 10 j 23:55	9°♈11'15	
retrograde	-7414 Sep 05 j 23:52	10°♈45'26	
opposition	-7414 Nov 23 j 02:47	9°♈34'03	7°17'20
min. Earth dist.	-7414 Nov 26 j 09:05	9°♈29'22	35.14537 AU
direct	-7413 Feb 13 j 03:47	8°♈19'28	
evening set	-7413 May 15 j 12:52	9°♈58'03	
max. Earth dist.	-7413 May 26 j 00:53	10°♈17'24	37.00034 AU
conjunction	-7413 May 29 j 16:27	10°♈24'12	7°07'29
minimum elong	-7413 May 29 j 16:10	10°♈24'10	7°07'30
morning rise	-7413 Jun 12 j 16:41	10°♈50'06	
retrograde	-7413 Sep 07 j 23:04	12°♈25'38	
opposition	-7413 Nov 25 j 00:24	11°♈13'50	7°45'42
min. Earth dist.	-7413 Nov 28 j 07:39	11°♈09'04	34.88812 AU
direct	-7412 Feb 14 j 23:44	9°♈58'47	
evening set	-7412 May 16 j 18:36	11°♈38'53	

Attention, astronomical year style is used: The year -7412 in astronomical counting style is the year 7413 BCE in historical counting style.

max. Earth dist.	-7412 May 27 j 01:06	11°♈57'59	36.74118 AU
conjunction	-7412 May 30 j 15:44	12°♈04'46	7°34'10
minimum elong	-7412 May 30 j 15:27	12°♈04'44	7°34'14
morning rise	-7412 Jun 13 j 09:17	12°♈30'25	
retrograde	-7412 Sep 08 j 20:58	14°♈07'23	
opposition	-7412 Nov 25 j 22:46	12°♈55'08	8°14'06
min. Earth dist.	-7412 Nov 29 j 06:00	12°♈50'20	34.63156 AU
direct	-7411 Feb 15 j 21:41	11°♈39'37	
evening set	-7411 May 19 j 01:35	13°♈21'17	
max. Earth dist.	-7411 May 29 j 00:10	13°♈39'58	36.48319 AU
conjunction	-7411 Jun 01 j 15:28	13°♈46'52	8°00'51
minimum elong	-7411 Jun 01 j 15:09	13°♈46'51	8°00'55
morning rise	-7411 Jun 15 j 02:09	14°♈12'14	
retrograde	-7411 Sep 10 j 22:02	15°♈50'41	
opposition	-7411 Nov 27 j 21:40	14°♈38'00	8°42'30
min. Earth dist.	-7411 Dec 01 j 04:34	14°♈33'12	34.37681 AU
direct	-7410 Feb 17 j 18:06	13°♈22'00	
evening set	-7410 May 21 j 09:26	15°♈05'20	
max. Earth dist.	-7410 May 31 j 01:11	15°♈23'39	36.22702 AU
conjunction	-7410 Jun 03 j 15:53	15°♈30'34	8°27'29
minimum elong	-7410 Jun 03 j 15:33	15°♈30'33	8°27'35
morning rise	-7410 Jun 16 j 18:52	15°♈55'34	
retrograde	-7410 Sep 12 j 23:14	17°♈35'37	
opposition	-7410 Nov 29 j 21:28	16°♈22'29	9°10'50
min. Earth dist.	-7410 Dec 03 j 04:54	16°♈17'37	34.12432 AU
direct	-7409 Feb 19 j 15:42	15°♈06'01	
evening set	-7409 May 23 j 18:51	16°♈51'06	
max. Earth dist.	-7409 Jun 02 j 02:41	17°♈08'59	35.97350 AU
conjunction	-7409 Jun 05 j 16:56	17°♈15'56	8°54'01
minimum elong	-7409 Jun 05 j 16:35	17°♈15'54	8°54'06
morning rise	-7409 Jun 18 j 11:52	17°♈40'33	
retrograde	-7409 Sep 15 j 02:24	19°♈22'15	
opposition	-7409 Dec 01 j 21:46	18°♈08'42	9°39'04
min. Earth dist.	-7409 Dec 05 j 03:54	18°♈03'53	33.87478 AU
direct	-7408 Feb 21 j 15:19	16°♈51'46	
evening set	-7408 May 25 j 05:24	18°♈38'42	
max. Earth dist.	-7408 Jun 03 j 04:23	18°♈56'03	35.72288 AU
conjunction	-7408 Jun 06 j 18:47	19°♈03'04	9°20'24
minimum elong	-7408 Jun 06 j 18:25	19°♈03'03	9°20'31
morning rise	-7408 Jun 19 j 04:59	19°♈27'14	
retrograde	-7408 Sep 16 j 06:07	21°♈10'42	
opposition	-7408 Dec 02 j 23:07	19°♈56'44	10°07'09
min. Earth dist.	-7408 Dec 06 j 05:54	19°♈51'51	33.62843 AU
direct	-7407 Feb 22 j 15:52	18°♈39'22	
evening set	-7407 May 27 j 17:14	20°♈28'13	
max. Earth dist.	-7407 Jun 05 j 08:18	20°♈45'07	35.47542 AU
conjunction	-7407 Jun 08 j 21:09	20°♈52'05	9°46'36
minimum elong	-7407 Jun 08 j 20:47	20°♈52'03	9°46'43
morning rise	-7407 Jun 20 j 21:59	21°♈15'45	
retrograde	-7407 Sep 18 j 10:20	23°♈01'02	
opposition	-7407 Dec 05 j 01:08	21°♈46'40	10°35'02
min. Earth dist.	-7407 Dec 08 j 06:46	21°♈41'49	33.38514 AU
direct	-7406 Feb 24 j 19:01	20°♈28'53	
evening set	-7406 May 30 j 06:32	22°♈19'46	
max. Earth dist.	-7406 Jun 07 j 10:49	22°♈35'57	35.23077 AU
conjunction	-7406 Jun 11 j 00:22	22°♈43'03	10°12'35
minimum elong	-7406 Jun 10 j 23:58	22°♈43'01	10°12'44
morning rise	-7406 Jun 22 j 15:22	23°♈06'08	
retrograde	-7406 Sep 20 j 15:06	24°♈53'22	
opposition	-7406 Dec 07 j 03:50	23°♈38'36	11°02'41
min. Earth dist.	-7406 Dec 10 j 09:56	23°♈33'42	33.14472 AU
direct	-7405 Feb 26 j 19:34	22°♈20'23	
evening set	-7405 Jun 01 j 21:23	24°♈13'24	
max. Earth dist.	-7405 Jun 09 j 16:22	24°♈28'58	34.98860 AU
conjunction	-7405 Jun 13 j 04:31	24°♈36'02	10°38'18
minimum elong	-7405 Jun 13 j 04:07	24°♈36'00	10°38'27
morning rise	-7405 Jun 24 j 08:42	24°♈58'28	
retrograde	-7405 Sep 22 j 18:18	26°♈47'43	
opposition	-7405 Dec 09 j 07:40	25°♈32'34	11°30'03
min. Earth dist.	-7405 Dec 12 j 13:21	25°♈27'39	32.90661 AU
direct	-7404 Feb 28 j 22:39	24°♈13'55	
evening set	-7404 Jun 03 j 13:45	26°♈09'07	
max. Earth dist.	-7404 Jun 10 j 20:30	26°♈23'50	34.74872 AU
conjunction	-7404 Jun 14 j 09:11	26°♈31'01	11°03'43
minimum elong	-7404 Jun 14 j 08:46	26°♈30'59	11°03'54
morning rise	-7404 Jun 25 j 02:06	26°♈52'43	
retrograde	-7404 Sep 24 j 00:53	28°♈44'07	
opposition	-7404 Dec 10 j 12:16	27°♈28'32	11°57'06
min. Earth dist.	-7404 Dec 13 j 17:27	27°♈23'37	32.67090 AU
direct	-7403 Mar 02 j 00:22	26°♈09'26	
evening set	-7403 Jun 06 j 07:37	28°♈06'57	
max. Earth dist.	-7403 Jun 13 j 03:12	28°♈20'52	34.51103 AU
conjunction	-7403 Jun 16 j 14:51	28°♈28'02	11°28'46
minimum elong	-7403 Jun 16 j 14:27	28°♈28'00	11°28'57
morning rise	-7403 Jun 26 j 19:27	28°♈48'55	
	-7403 Aug 04 j 14:15	0°♉	
retrograde	-7403 Sep 26 j 06:43	0°♉42'32	
	-7403 Nov 20 j 04:08	30°℞♈	
opposition	-7403 Dec 12 j 17:51	29°♈26'31	12°23'45
min. Earth dist.	-7403 Dec 15 j 23:23	29°♈21'33	32.43755 AU
direct	-7402 Mar 04 j 03:01	28°♈06'58	
	-7402 Jun 05 j 18:29	0°♉	
evening set	-7402 Jun 09 j 03:12	0°♉06'53	
max. Earth dist.	-7402 Jun 15 j 09:49	0°♉19'50	34.27598 AU
conjunction	-7402 Jun 18 j 21:06	0°♉27'02	11°53'25
minimum elong	-7402 Jun 18 j 20:40	0°♉27'00	11°53'37
morning rise	-7402 Jun 28 j 12:43	0°♉47'02	
retrograde	-7402 Sep 28 j 15:27	2°♉42'57	
opposition	-7402 Dec 15 j 00:08	1°♉26'30	12°49'58
min. Earth dist.	-7402 Dec 18 j 04:23	1°♉21'35	32.20698 AU
direct	-7401 Mar 06 j 08:59	0°♉06'29	
evening set	-7401 Jun 12 j 00:27	2°♉08'54	
max. Earth dist.	-7401 Jun 17 j 17:19	2°♉20'48	34.04373 AU
conjunction	-7401 Jun 21 j 04:16	2°♉28'03	12°17'34
minimum elong	-7401 Jun 21 j 03:50	2°♉28'00	12°17'47
morning rise	-7401 Jun 30 j 05:49	2°♉47'01	
retrograde	-7401 Oct 01 j 00:34	4°♉45'22	
opposition	-7401 Dec 17 j 07:24	3°♉28'28	13°15'38
min. Earth dist.	-7401 Dec 20 j 12:05	3°♉23'30	31.97967 AU
direct	-7400 Mar 07 j 14:47	2°♉07'59	
evening set	-7400 Jun 13 j 23:41	4°♉13'02	
max. Earth dist.	-7400 Jun 19 j 02:46	4°♉23'51	33.81524 AU
conjunction	-7400 Jun 22 j 12:06	4°♉31'02	12°41'11
minimum elong	-7400 Jun 22 j 11:40	4°♉30'59	12°41'26
morning rise	-7400 Jun 30 j 22:28	4°♉48'52	
retrograde	-7400 Oct 02 j 10:11	6°♉49'46	
opposition	-7400 Dec 18 j 15:33	5°♉32'25	13°40'43
min. Earth dist.	-7400 Dec 21 j 18:23	5°♉27'32	31.75645 AU
direct	-7399 Mar 09 j 23:20	4°♉11'28	
evening set	-7399 Jun 17 j 00:33	6°♉19'17	
max. Earth dist.	-7399 Jun 21 j 11:29	6°♉28'47	33.59115 AU

Attention, astronomical year style is used: The year -7399 in astronomical counting style is the year 7400 BCE in historical counting style.

conjunction	-7399 Jun	24 j 20:29	6°♉36'00	13°04'10
minimum elong	-7399 Jun	24 j 20:02	6°♉35'57	13°04'24
morning rise	-7399 Jul	02 j 14:35	6°♉52'34	
retrograde	-7399 Oct	04 j 20:43	8°♉56'10	
opposition	-7399 Dec	21 j 00:35	7°♉38'21	14°05'05
min. Earth dist.	-7399 Dec	24 j 03:11	7°♉33'28	31.53821 AU