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

evening set	-7900 Jan 05 j 08:36	3°♐42'41		
conjunction	-7900 Jan 23 j 06:36	6°♐06'30	-1°32'06	
minimum elong	-7900 Jan 23 j 06:32	6°♐06'28	1°32'33	
max. Earth dist.	-7900 Jan 23 j 19:34	6°♐10'51	9.79509 AU	
morning rise	-7900 Feb 10 j 08:56	8°♐31'43		
retrograde	-7900 May 28 j 17:08	17°♐18'30		
opposition	-7900 Aug 03 j 22:36	13°♐45'21	-2°13'33	
min. Earth dist.	-7900 Aug 03 j 10:11	13°♐47'57	7.77826 AU	
direct	-7900 Oct 08 j 09:45	10°♐16'28		
evening set	-7899 Jan 20 j 04:25	18°♐44'28		
conjunction	-7899 Feb 07 j 05:03	21°♐09'20	-1°57'59	
minimum elong	-7899 Feb 07 j 04:59	21°♐09'19	1°58'29	
max. Earth dist.	-7899 Feb 07 j 23:30	21°♐15'33	9.76999 AU	
morning rise	-7899 Feb 25 j 09:00	23°♐35'15		
	-7899 Apr 22 j 18:48	0°♑		
retrograde	-7899 Jun 13 j 04:29	2°♑20'58		
	-7899 Aug 04 j 11:33	30°℞♐		
opposition	-7899 Aug 18 j 23:21	28°♐48'02	-2°41'13	
min. Earth dist.	-7899 Aug 18 j 07:39	28°♐51'21	7.77622 AU	
direct	-7899 Oct 23 j 13:20	25°♐18'13		
	-7898 Jan 05 j 07:53	0°♑		
evening set	-7898 Feb 05 j 04:35	3°♑49'17		
conjunction	-7898 Feb 23 j 06:46	6°♑14'06	-2°15'52	
minimum elong	-7898 Feb 23 j 06:44	6°♑14'05	2°16'24	
max. Earth dist.	-7898 Feb 24 j 05:14	6°♑21'38	9.78983 AU	
morning rise	-7898 Mar 13 j 11:01	8°♑39'30		
retrograde	-7898 Jun 28 j 09:20	17°♑19'23		
opposition	-7898 Sep 02 j 21:00	13°♑47'15	-2°57'41	
min. Earth dist.	-7898 Sep 02 j 03:10	13°♑51'01	7.81842 AU	
direct	-7898 Nov 07 j 19:06	10°♑16'51		
evening set	-7897 Feb 21 j 03:44	18°♑47'11		
conjunction	-7897 Mar 11 j 06:30	21°♑10'54	-2°24'29	
minimum elong	-7897 Mar 11 j 06:29	21°♑10'54	2°24'59	
max. Earth dist.	-7897 Mar 12 j 07:30	21°♑19'13	9.85309 AU	
morning rise	-7897 Mar 29 j 09:55	23°♑34'43		
	-7897 May 26 j 05:03	0°♒		
retrograde	-7897 Jul 13 j 04:40	2°♒04'38		
	-7897 Aug 30 j 21:57	30°℞♑		
opposition	-7897 Sep 17 j 13:01	28°♑33'48	-3°02'02	
min. Earth dist.	-7897 Sep 16 j 17:48	28°♑37'50	7.90165 AU	
direct	-7897 Nov 22 j 23:55	25°♑03'13		
	-7896 Feb 08 j 07:01	0°♒		
evening set	-7896 Mar 07 j 20:46	3°♒29'03		
conjunction	-7896 Mar 25 j 23:16	5°♒50'49	-2°23'32	
minimum elong	-7896 Mar 25 j 23:18	5°♒50'49	2°24'00	
max. Earth dist.	-7896 Mar 27 j 01:22	5°♒59'23	9.95510 AU	
morning rise	-7896 Apr 13 j 01:00	8°♒12'11		
	-7896 Jun 16 j 05:36	15°♒		
retrograde	-7896 Jul 26 j 11:40	16°♒29'01		
	-7896 Sep 05 j 05:30	15°℞♒		
opposition	-7896 Sep 30 j 21:04	12°♒59'55	-2°54'37	
min. Earth dist.	-7896 Sep 30 j 01:21	13°♒04'01	8.01988 AU	
direct	-7896 Dec 06 j 23:24	9°♒29'33		
	-7895 Feb 28 j 04:14	15°♒		
evening set	-7895 Mar 23 j 04:06	17°♒47'45		
conjunction	-7895 Apr 10 j 05:39	20°♒06'54	-2°13'42	
minimum elong	-7895 Apr 10 j 05:42	20°♒06'55	2°14'05	
max. Earth dist.	-7895 Apr 11 j 07:14	20°♒15'10	10.08857 AU	
morning rise	-7895 Apr 28 j 05:00	22°♒25'12		
	-7895 Jul 18 j 08:26	0°♓		
retrograde	-7895 Aug 09 j 07:25	0°♓27'07		
	-7895 Aug 31 j 09:39	30°℞♒		
opposition	-7895 Oct 14 j 19:37	27°♒00'01	-2°36'54	
min. Earth dist.	-7895 Oct 14 j 00:21	27°♒03'58	8.16501 AU	
direct	-7895 Dec 21 j 15:02	23°♒30'17		
	-7894 Mar 24 j 11:10	0°♓		
evening set	-7894 Apr 06 j 23:03	1°♓38'34		
conjunction	-7894 Apr 24 j 22:51	3°♓54'38	-1°56'21	
minimum elong	-7894 Apr 24 j 22:55	3°♓54'40	1°56'38	
max. Earth dist.	-7894 Apr 25 j 22:44	4°♓02'13	10.24460 AU	
morning rise	-7894 May 12 j 19:12	6°♓09'32		
retrograde	-7894 Aug 22 j 15:22	13°♓55'58		
opposition	-7894 Oct 28 j 08:25	10°♓30'59	-2°11'00	
min. Earth dist.	-7894 Oct 27 j 14:48	10°♓34'33	8.32795 AU	
direct	-7893 Jan 04 j 21:37	7°♓02'15		
evening set	-7893 Apr 21 j 03:58	14°♓59'15		
conjunction	-7893 May 09 j 01:16	17°♓11'59	-1°33'14	
minimum elong	-7893 May 09 j 01:19	17°♓12'01	1°33'24	
max. Earth dist.	-7893 May 09 j 22:25	17°♓18'35	10.41365 AU	
morning rise	-7893 May 26 j 18:05	19°♓23'19		
retrograde	-7893 Sep 04 j 10:36	26°♓54'46		
opposition	-7893 Nov 10 j 11:18	23°♓31'59	-1°39'17	
min. Earth dist.	-7893 Nov 09 j 20:45	23°♓34'53	8.49941 AU	
direct	-7892 Jan 18 j 18:28	20°♓04'26		
evening set	-7892 May 03 j 18:53	27°♓49'46		
conjunction	-7892 May 21 j 12:55	29°♓59'04	-1°06'10	
minimum elong	-7892 May 21 j 12:58	29°♓59'05	1°06'13	
	-7892 May 21 j 15:57	0°♈		
max. Earth dist.	-7892 May 22 j 05:37	0°♈04'11	10.58647 AU	
morning rise	-7892 Jun 08 j 01:55	2°♈06'50		
retrograde	-7892 Sep 15 j 18:25	9°♈24'35		
opposition	-7892 Nov 22 j 04:42	6°♈03'52	-1°04'01	
min. Earth dist.	-7892 Nov 21 j 17:59	6°♈05'58	8.67050 AU	
direct	-7891 Jan 31 j 04:58	2°♈37'39		
evening set	-7891 May 16 j 20:18	10°♈11'37		
conjunction	-7891 Jun 03 j 10:28	12°♈17'35	-0°36'53	
minimum elong	-7891 Jun 03 j 10:30	12°♈17'35	0°36'49	
max. Earth dist.	-7891 Jun 03 j 21:34	12°♈20'55	10.75440 AU	
morning rise	-7891 Jun 20 j 19:26	14°♈21'56		
retrograde	-7891 Sep 27 j 16:27	21°♈27'46		
opposition	-7891 Dec 04 j 13:44	18°♈08'54	-0°27'15	
min. Earth dist.	-7891 Dec 04 j 06:45	18°♈10'14	8.83297 AU	
direct	-7890 Feb 13 j 05:24	14°♈44'05		
evening set	-7890 May 29 j 09:09	22°♈07'31		
conjunction	-7890 Jun 15 j 19:03	24°♈10'18	-0°06'55	
minimum elong	-7890 Jun 15 j 19:03	24°♈10'19	0°06'45	
behind sun begin	-7890 Jun 15 j 12:25	24°♈08'22		
behind sun end	-7890 Jun 16 j 01:42	24°♈12'15		
max. Earth dist.	-7890 Jun 16 j 00:38	24°♈11'56	10.90967 AU	
morning rise	-7890 Jul 02 j 23:43	26°♈11'32		
	-7890 Aug 07 j 22:01	0°♉		
asc. node	-7890 Sep 10 j 20:27	2°♉25'54		
retrograde	-7890 Oct 09 j 06:27	3°♉07'34		
	-7890 Dec 14 j 11:55	30°℞♈		
opposition	-7890 Dec 16 j 15:28	29°♈50'14	0°09'24	
min. Earth dist.	-7890 Dec 16 j 11:55	29°♈50'55	8.97949 AU	
direct	-7889 Feb 25 j 21:00	26°♈26'49		
	-7889 May 06 j 12:26	0°♉		
evening set	-7889 Jun 10 j 10:59	3°♉40'58		

Attention, astronomical year style is used: The year -7889 in astronomical counting style is the year 7890 BCE in historical counting style.

conjunction	-7889 Jun 27 j 16:32	5°♉40'54	0°22'38
minimum elong	-7889 Jun 27 j 16:31	5°♉40'53	0°22'52
max. Earth dist.	-7889 Jun 27 j 17:37	5°♉41'13	11.04552 AU
morning rise	-7889 Jul 14 j 16:45	7°♉39'20	
retrograde	-7889 Oct 20 j 17:02	14°♉27'50	
opposition	-7889 Dec 28 j 11:18	11°♉11'46	0°44'33
min. Earth dist.	-7889 Dec 28 j 12:02	11°♉11'37	9.10392 AU
direct	-7888 Mar 09 j 02:32	7°♉49'38	
evening set	-7888 Jun 21 j 03:36	14°♉56'03	
	-7888 Jun 21 j 17:34	15°♉	
conjunction	-7888 Jul 08 j 04:39	16°♉53'32	0°50'32
minimum elong	-7888 Jul 08 j 04:37	16°♉53'31	0°50'52
max. Earth dist.	-7888 Jul 08 j 00:50	16°♉52'25	11.15658 AU
morning rise	-7888 Jul 25 j 00:36	18°♉49'37	
retrograde	-7888 Oct 30 j 21:03	25°♉32'52	
opposition	-7887 Jan 08 j 02:54	22°♉17'45	1°17'11
min. Earth dist.	-7887 Jan 08 j 08:33	22°♉16'42	9.20182 AU
direct	-7887 Mar 21 j 00:15	18°♉56'46	
evening set	-7887 Jul 02 j 12:53	25°♉57'07	
conjunction	-7887 Jul 19 j 09:24	27°♉52'33	1°16'04
minimum elong	-7887 Jul 19 j 09:21	27°♉52'32	1°16'28
max. Earth dist.	-7887 Jul 18 j 23:59	27°♉49'51	11.23955 AU
morning rise	-7887 Aug 05 j 01:32	29°♉46'47	
	-7887 Aug 07 j 00:39	0°♊	
retrograde	-7887 Nov 10 j 23:32	6°♊27'01	
opposition	-7886 Jan 19 j 15:41	3°♊12'27	1°46'27
min. Earth dist.	-7886 Jan 20 j 01:21	3°♊10'41	9.27067 AU
	-7886 Mar 20 j 00:39	30°℞♉	
direct	-7886 Apr 01 j 18:13	29°♉52'27	
	-7886 Apr 14 j 10:19	0°♊	
evening set	-7886 Jul 13 j 16:24	6°♊48'20	
conjunction	-7886 Jul 30 j 08:51	8°♊42'11	1°38'31
minimum elong	-7886 Jul 30 j 08:48	8°♊42'10	1°39'00
max. Earth dist.	-7886 Jul 29 j 19:16	8°♊38'18	11.29269 AU
morning rise	-7886 Aug 15 j 21:36	10°♊35'03	
retrograde	-7886 Nov 22 j 01:27	17°♊14'22	
opposition	-7885 Jan 31 j 03:04	13°♊59'57	2°11'37
min. Earth dist.	-7885 Jan 31 j 15:30	13°♊57'41	9.30893 AU
direct	-7885 Apr 13 j 06:52	10°♊40'43	
evening set	-7885 Jul 24 j 15:43	17°♊33'40	
conjunction	-7885 Aug 10 j 04:46	19°♊26'28	1°57'20
minimum elong	-7885 Aug 10 j 04:43	19°♊26'27	1°57'51
max. Earth dist.	-7885 Aug 09 j 12:34	19°♊21'50	11.31474 AU
morning rise	-7885 Aug 26 j 14:38	21°♊18'29	
retrograde	-7885 Dec 03 j 06:06	27°♊58'54	
opposition	-7884 Feb 11 j 14:27	24°♊44'16	2°32'05
min. Earth dist.	-7884 Feb 12 j 05:34	24°♊41'31	9.31566 AU
direct	-7884 Apr 23 j 17:05	21°♊25'34	
evening set	-7884 Aug 03 j 12:55	28°♊17'09	
	-7884 Aug 18 j 14:13	0°♋	
conjunction	-7884 Aug 19 j 23:05	0°♋09'26	2°12'00
minimum elong	-7884 Aug 19 j 23:02	0°♋09'25	2°12'32
max. Earth dist.	-7884 Aug 19 j 03:51	0°♋03'55	11.30522 AU
morning rise	-7884 Sep 05 j 06:53	2°♋01'09	
retrograde	-7884 Dec 13 j 11:38	8°♋44'33	
opposition	-7883 Feb 22 j 03:15	5°♋29'22	2°47'19
min. Earth dist.	-7883 Feb 22 j 21:32	5°♋26'03	9.29083 AU
direct	-7883 May 05 j 00:03	2°♋10'58	
evening set	-7883 Aug 14 j 09:31	9°♋02'46	
conjunction	-7883 Aug 30 j 17:33	10°♋55'05	2°22'04
minimum elong	-7883 Aug 30 j 17:31	10°♋55'04	2°22'35
max. Earth dist.	-7883 Aug 29 j 19:19	10°♋48'40	11.26473 AU
morning rise	-7883 Sep 16 j 00:22	12°♋47'07	
retrograde	-7883 Dec 24 j 21:47	19°♋35'27	
opposition	-7882 Mar 05 j 18:57	16°♋19'21	2°56'48
min. Earth dist.	-7882 Mar 06 j 15:11	16°♋15'40	9.23538 AU
direct	-7882 May 16 j 09:14	13°♋00'59	
evening set	-7882 Aug 25 j 07:03	19°♋54'33	
conjunction	-7882 Sep 10 j 14:08	21°♋47'30	2°27'08
minimum elong	-7882 Sep 10 j 14:08	21°♋47'30	2°27'38
max. Earth dist.	-7882 Sep 09 j 14:57	21°♋40'45	11.19453 AU
morning rise	-7882 Sep 26 j 20:54	23°♋40'27	
	-7882 Dec 09 j 10:22	0°♌	
retrograde	-7881 Jan 05 j 14:39	0°♌35'33	
	-7881 Feb 02 j 05:39	30°℞♋	
opposition	-7881 Mar 17 j 14:41	27°♋18'14	3°00'03
min. Earth dist.	-7881 Mar 18 j 11:17	27°♋14'28	9.15091 AU
direct	-7881 May 27 j 19:30	23°♋59'45	
	-7881 Aug 28 j 00:17	0°♌	
evening set	-7881 Sep 05 j 07:42	0°♌56'34	
conjunction	-7881 Sep 21 j 14:59	2°♌50'48	2°26'50
minimum elong	-7881 Sep 21 j 15:00	2°♌50'48	2°27'19
max. Earth dist.	-7881 Sep 20 j 15:47	2°♌43'58	11.09663 AU
morning rise	-7881 Oct 07 j 22:41	4°♌45'17	
retrograde	-7880 Jan 17 j 15:11	11°♌48'52	
opposition	-7880 Mar 28 j 15:41	8°♌30'06	2°56'38
min. Earth dist.	-7880 Mar 29 j 12:10	8°♌26'20	9.03994 AU
direct	-7880 Jun 07 j 07:56	5°♌11'18	
evening set	-7880 Sep 15 j 13:17	12°♌12'56	
conjunction	-7880 Oct 01 j 21:44	14°♌09'03	2°20'53
minimum elong	-7880 Oct 01 j 21:46	14°♌09'04	2°21'18
max. Earth dist.	-7880 Sep 30 j 22:00	14°♌01'58	10.97420 AU
	-7880 Oct 09 j 00:52	15°♌	
morning rise	-7880 Oct 18 j 07:42	16°♌05'44	
retrograde	-7879 Jan 29 j 01:27	23°♌19'26	
opposition	-7879 Apr 09 j 23:42	19°♌59'02	2°46'11
min. Earth dist.	-7879 Apr 10 j 20:00	19°♌55'15	8.90616 AU
direct	-7879 Jun 19 j 00:58	16°♌39'44	
evening set	-7879 Sep 27 j 01:34	23°♌47'36	
conjunction	-7879 Oct 13 j 12:20	25°♌46'13	2°09'03
minimum elong	-7879 Oct 13 j 12:23	25°♌46'14	2°09'24
max. Earth dist.	-7879 Oct 12 j 13:05	25°♌39'11	10.83139 AU
morning rise	-7879 Oct 30 j 01:50	27°♌45'43	
	-7879 Nov 18 j 15:53	0°♍	
retrograde	-7878 Feb 10 j 19:36	5°♍11'04	
opposition	-7878 Apr 22 j 15:35	1°♍48'51	2°28'27
min. Earth dist.	-7878 Apr 23 j 10:50	1°♍45'13	8.75434 AU
	-7878 May 18 j 01:57	30°℞♌	
direct	-7878 Jul 01 j 00:39	28°♌28'51	
	-7878 Aug 12 j 12:21	0°♍	
evening set	-7878 Oct 08 j 22:42	5°♍44'25	
conjunction	-7878 Oct 25 j 13:05	7°♍46'07	1°51'19
minimum elong	-7878 Oct 25 j 13:09	7°♍46'08	1°51'35
max. Earth dist.	-7878 Oct 24 j 16:24	7°♍39'44	10.67338 AU
morning rise	-7878 Nov 11 j 07:02	9°♍48'58	
retrograde	-7877 Feb 24 j 02:08	17°♍27'09	
opposition	-7877 May 05 j 15:59	14°♍03'01	2°03'25
min. Earth dist.	-7877 May 06 j 08:37	13°♍59'50	8.59041 AU
direct	-7877 Jul 13 j 09:18	10°♍42'10	
evening set	-7877 Oct 21 j 06:41	18°♍06'44	
max. Earth dist.	-7877 Nov 06 j 08:32	20°♍06'38	10.50656 AU
conjunction	-7877 Nov 07 j 01:38	20°♍11'59	1°27'54

Attention, astronomical year style is used: The year -7877 in astronomical counting style is the year 7878 BCE in historical counting style.

minimum elong	-7877 Nov 07 j 01:42	20°♍12'01	1°28'03
morning rise	-7877 Nov 24 j 00:47	22°♍18'40	
	-7876 Feb 23 j 13:31	0°♎	
retrograde	-7876 Mar 08 j 22:19	0°♎10'29	
	-7876 Mar 23 j 07:57	30°℞♍	
opposition	-7876 May 18 j 01:52	26°♍44'25	1°31'27
min. Earth dist.	-7876 May 18 j 14:35	26°♍41'57	8.42147 AU
direct	-7876 Jul 25 j 01:19	23°♍22'38	
	-7876 Oct 25 j 09:15	0°♎	
evening set	-7876 Nov 02 j 03:14	0°♎57'16	
conjunction	-7876 Nov 19 j 03:17	3°♎06'22	0°59'19
minimum elong	-7876 Nov 19 j 03:20	3°♎06'23	0°59'21
max. Earth dist.	-7876 Nov 18 j 14:15	3°♎02'13	10.33864 AU
morning rise	-7876 Dec 06 j 08:15	5°♎17'09	
retrograde	-7875 Mar 23 j 05:24	13°♎22'50	
opposition	-7875 May 31 j 21:27	9°♎54'57	0°53'25
min. Earth dist.	-7875 Jun 01 j 05:47	9°♎53'18	8.25595 AU
direct	-7875 Aug 07 j 02:49	6°♎32'03	
evening set	-7875 Nov 15 j 14:03	14°♎17'36	
conjunction	-7875 Dec 02 j 19:32	16°♎30'41	0°26'38
minimum elong	-7875 Dec 02 j 19:33	16°♎30'41	0°26'33
max. Earth dist.	-7875 Dec 02 j 10:59	16°♎27'55	10.17844 AU
morning rise	-7875 Dec 20 j 06:35	18°♎45'35	
retrograde	-7874 Apr 06 j 22:42	27°♎04'33	
opposition	-7874 Jun 15 j 02:14	23°♎35'00	0°10'53
min. Earth dist.	-7874 Jun 15 j 06:07	23°♎34'13	8.10310 AU
direct	-7874 Aug 20 j 16:27	20°♎10'55	
desc. node	-7874 Sep 15 j 20:16	20°♎49'28	
evening set	-7874 Nov 29 j 15:50	28°♎07'43	
	-7874 Dec 14 j 00:01	0°♏	
conjunction	-7874 Dec 17 j 02:46	0°♏24'36	-0°08'41
minimum elong	-7874 Dec 17 j 02:45	0°♏24'35	0°08'54
behind sun begin	-7874 Dec 16 j 20:33	0°♏22'34	
behind sun end	-7874 Dec 17 j 08:57	0°♏26'37	
max. Earth dist.	-7874 Dec 16 j 23:44	0°♏23'37	10.03527 AU
morning rise	-7873 Jan 03 j 19:31	2°♏43'22	
retrograde	-7873 Apr 22 j 01:18	11°♏14'02	
opposition	-7873 Jun 29 j 15:17	7°♏43'09	-0°33'52
min. Earth dist.	-7873 Jun 29 j 14:40	7°♏43'16	7.97229 AU
direct	-7873 Sep 03 j 16:57	4°♏17'49	
evening set	-7873 Dec 14 j 08:19	12°♏25'29	
conjunction	-7872 Jan 01 j 00:15	14°♏45'40	-0°44'21
minimum elong	-7872 Jan 01 j 00:12	14°♏45'40	0°44'41
max. Earth dist.	-7872 Jan 01 j 03:48	14°♏46'51	9.91823 AU
	-7872 Jan 02 j 19:16	15°♏	
morning rise	-7872 Jan 18 j 21:47	17°♏07'41	
retrograde	-7872 May 06 j 10:29	25°♏47'27	
opposition	-7872 Jul 13 j 10:50	22°♏15'34	-1°17'47
min. Earth dist.	-7872 Jul 13 j 05:18	22°♏16'43	7.87222 AU
direct	-7872 Sep 17 j 03:18	18°♏49'00	
evening set	-7872 Dec 28 j 14:08	27°♏06'18	
conjunction	-7871 Jan 15 j 10:20	29°♏29'02	-1°17'57
minimum elong	-7871 Jan 15 j 10:16	29°♏29'00	1°18'23
max. Earth dist.	-7871 Jan 15 j 20:37	29°♏32'29	9.83549 AU
	-7871 Jan 19 j 06:36	0°♐	
morning rise	-7871 Feb 02 j 11:26	1°♐53'21	
retrograde	-7871 May 21 j 23:09	10°♐38'30	
opposition	-7871 Jul 28 j 10:26	7°♐06'04	-1°57'27
min. Earth dist.	-7871 Jul 28 j 00:09	7°♐08'13	7.80981 AU
direct	-7871 Oct 01 j 22:37	3°♐38'19	
evening set	-7870 Jan 13 j 06:23	12°♐03'05	

conjunction	-7870 Jan 31 j 05:50	14°♐27'21	-1°46'50
minimum elong	-7870 Jan 31 j 05:46	14°♐27'20	1°47'20
max. Earth dist.	-7870 Jan 31 j 22:11	14°♐32'51	9.79271 AU
morning rise	-7870 Feb 18 j 09:07	16°♐52'52	
retrograde	-7870 Jun 06 j 11:14	25°♐38'57	
opposition	-7870 Aug 12 j 11:18	22°♐06'28	-2°29'33
min. Earth dist.	-7870 Aug 11 j 21:03	22°♐09'28	7.78876 AU
direct	-7870 Oct 17 j 00:17	18°♐37'41	
evening set	-7869 Jan 29 j 04:56	27°♐06'59	
conjunction	-7869 Feb 16 j 06:28	29°♐31'43	-2°08'37
minimum elong	-7869 Feb 16 j 06:25	29°♐31'41	2°09'08
max. Earth dist.	-7869 Feb 17 j 03:30	29°♐38'47	9.79199 AU
	-7869 Feb 19 j 18:37	0°♑	
morning rise	-7869 Mar 06 j 10:30	1°♑57'13	
retrograde	-7869 Jun 21 j 18:58	10°♑39'43	
opposition	-7869 Aug 27 j 10:26	7°♑07'45	-2°51'22
min. Earth dist.	-7869 Aug 26 j 17:17	7°♑11'21	7.80938 AU
direct	-7869 Nov 01 j 04:43	3°♑38'12	
evening set	-7868 Feb 14 j 04:54	12°♑08'41	
conjunction	-7868 Mar 03 j 07:31	14°♑32'51	-2°21'36
minimum elong	-7868 Mar 03 j 07:29	14°♑32'50	2°22'07
max. Earth dist.	-7868 Mar 04 j 07:41	14°♑40'55	9.83272 AU
morning rise	-7868 Mar 21 j 11:11	16°♑57'18	
retrograde	-7868 Jul 05 j 19:33	25°♑32'00	
min. Earth dist.	-7868 Sep 09 j 10:34	22°♑05'00	7.87018 AU
opposition	-7868 Sep 10 j 05:18	22°♑01'04	-3°01'22
direct	-7868 Nov 15 j 09:04	18°♑31'04	
evening set	-7867 Mar 01 j 01:26	26°♑59'07	
conjunction	-7867 Mar 19 j 04:15	29°♑21'49	-2°25'02
minimum elong	-7867 Mar 19 j 04:15	29°♑21'49	2°25'31
max. Earth dist.	-7867 Mar 20 j 05:57	29°♑30'18	9.91272 AU
	-7867 Mar 23 j 23:53	0°♒	
morning rise	-7867 Apr 06 j 06:41	1°♒44'19	
retrograde	-7867 Jul 20 j 10:02	10°♒07'35	
opposition	-7867 Sep 24 j 17:31	6°♒38'04	-2°59'17
min. Earth dist.	-7867 Sep 23 j 22:31	6°♒42'03	7.96776 AU
direct	-7867 Nov 30 j 10:25	3°♒07'59	
evening set	-7866 Mar 16 j 14:19	11°♒30'09	
conjunction	-7866 Apr 03 j 16:26	13°♒50'35	-2°19'10
minimum elong	-7866 Apr 03 j 16:28	13°♒50'36	2°19'36
max. Earth dist.	-7866 Apr 04 j 17:50	13°♒58'51	10.02706 AU
	-7866 Apr 12 j 14:00	15°♒	
morning rise	-7866 Apr 21 j 16:50	16°♒10'22	
retrograde	-7866 Aug 03 j 12:45	24°♒19'39	
opposition	-7866 Oct 08 j 21:09	20°♒51'53	-2°46'06
min. Earth dist.	-7866 Oct 08 j 02:59	20°♒55'39	8.09595 AU
direct	-7866 Dec 15 j 06:40	17°♒22'03	
evening set	-7865 Mar 31 j 15:52	25°♒35'30	
conjunction	-7865 Apr 18 j 16:30	27°♒53'07	-2°05'05
minimum elong	-7865 Apr 18 j 16:34	27°♒53'09	2°05'25
max. Earth dist.	-7865 Apr 19 j 15:59	28°♒00'38	10.16831 AU
	-7865 May 05 j 07:20	0°♓	
morning rise	-7865 May 06 j 14:20	0°♓09'43	
retrograde	-7865 Aug 17 j 01:51	8°♓03'47	
opposition	-7865 Oct 22 j 15:10	4°♓37'56	-2°23'42
min. Earth dist.	-7865 Oct 21 j 22:33	4°♓41'19	8.24658 AU
direct	-7865 Dec 29 j 19:36	1°♓08'42	
evening set	-7864 Apr 14 j 03:50	9°♓11'32	
conjunction	-7864 May 02 j 02:20	11°♓25'58	-1°44'23
minimum elong	-7864 May 02 j 02:24	11°♓25'59	1°44'36
max. Earth dist.	-7864 May 02 j 22:37	11°♓32'21	10.32747 AU

Attention, astronomical year style is used: The year -7864 in astronomical counting style is the year 7865 BCE in historical counting style.

morning rise	-7864 May 19 j 21:05	13°♓39'07	
retrograde	-7864 Aug 29 j 01:32	21°♓17'56	
opposition	-7864 Nov 03 j 23:02	17°♓54'03	-1°54'22
min. Earth dist.	-7864 Nov 03 j 08:13	17°♓57'01	8.41043 AU
direct	-7863 Jan 11 j 22:54	14°♓25'43	
evening set	-7863 Apr 28 j 01:46	22°♓17'04	
conjunction	-7863 May 15 j 21:27	24°♓28'08	-1°18'54
minimum elong	-7863 May 15 j 21:31	24°♓28'09	1°19'00
max. Earth dist.	-7863 May 16 j 14:09	24°♓33'17	10.49511 AU
morning rise	-7863 Jun 02 j 12:32	26°♓37'43	
	-7863 Jul 02 j 07:16	0°♈	
retrograde	-7863 Sep 10 j 14:52	4°♈02'14	
opposition	-7863 Nov 16 j 21:02	0°♈40'16	-1°20'26
min. Earth dist.	-7863 Nov 16 j 08:42	0°♈42'42	8.57839 AU
	-7863 Nov 25 j 10:26	30°℞♓	
direct	-7862 Jan 25 j 14:40	27°♓13'04	
	-7862 Mar 26 j 04:42	0°♈	
evening set	-7862 May 11 j 09:42	4°♈52'51	
conjunction	-7862 May 29 j 01:57	7°♈00'34	-0°50'24
minimum elong	-7862 May 29 j 01:59	7°♈00'35	0°50'23
max. Earth dist.	-7862 May 29 j 14:59	7°♈04'31	10.66237 AU
morning rise	-7862 Jun 15 j 12:55	9°♈06'40	
retrograde	-7862 Sep 22 j 18:50	16°♈18'25	
opposition	-7862 Nov 29 j 10:17	12°♈58'16	-0°44'06
min. Earth dist.	-7862 Nov 29 j 01:22	13°♈00'00	8.74221 AU
direct	-7861 Feb 07 j 18:50	9°♈32'21	
evening set	-7861 May 24 j 04:21	17°♈01'09	
conjunction	-7861 Jun 10 j 16:33	19°♈05'37	-0°20'33
minimum elong	-7861 Jun 10 j 16:34	19°♈05'37	0°20'25
max. Earth dist.	-7861 Jun 11 j 01:15	19°♈08'12	10.82141 AU
morning rise	-7861 Jun 27 j 23:14	21°♈08'28	
retrograde	-7861 Oct 04 j 12:28	28°♈09'26	
opposition	-7861 Dec 11 j 15:35	24°♈50'54	-0°07'09
min. Earth dist.	-7861 Dec 11 j 11:03	24°♈51'46	8.89472 AU
direct	-7860 Feb 20 j 14:36	21°♈26'17	
asc. node	-7860 Feb 22 j 23:09	21°♈26'34	
evening set	-7860 Jun 04 j 11:27	28°♈45'14	
	-7860 Jun 15 j 04:23	0°♉	
conjunction	-7860 Jun 21 j 19:09	0°♉46'40	0°09'24
minimum elong	-7860 Jun 21 j 19:09	0°♉46'40	0°09'37
behind sun begin	-7860 Jun 21 j 13:17	0°♉44'58	
behind sun end	-7860 Jun 22 j 01:01	0°♉48'22	
max. Earth dist.	-7860 Jun 21 j 22:14	0°♉47'33	10.96567 AU
morning rise	-7860 Jul 08 j 21:33	2°♉46'34	
retrograde	-7860 Oct 14 j 23:56	9°♉38'53	
opposition	-7860 Dec 22 j 14:08	6°♉21'44	0°28'52
min. Earth dist.	-7860 Dec 22 j 13:29	6°♉21'51	9.02989 AU
direct	-7859 Mar 04 j 00:54	2°♉58'26	
evening set	-7859 Jun 16 j 08:25	10°♉08'53	
conjunction	-7859 Jul 03 j 11:31	12°♉07'38	0°38'08
minimum elong	-7859 Jul 03 j 11:30	12°♉07'37	0°38'26
max. Earth dist.	-7859 Jul 03 j 09:31	12°♉07'03	11.08986 AU
morning rise	-7859 Jul 20 j 09:40	14°♉04'57	
	-7859 Jul 28 j 13:40	15°♉	
retrograde	-7859 Oct 26 j 05:25	20°♉50'51	
opposition	-7858 Jan 03 j 07:38	17°♉34'48	1°02'49
min. Earth dist.	-7858 Jan 03 j 10:09	17°♉34'20	9.14285 AU
	-7858 Feb 11 j 24:00	15°℞♉	
direct	-7858 Mar 16 j 03:21	14°♉12'47	
	-7858 Apr 16 j 23:26	15°♉	
evening set	-7858 Jun 27 j 20:46	21°♉16'12	

conjunction	-7858 Jul 14 j 19:28	23°♉12'39	1°04'51
minimum elong	-7858 Jul 14 j 19:26	23°♉12'39	1°05'13
max. Earth dist.	-7858 Jul 14 j 13:51	23°♉11'02	11.18972 AU
morning rise	-7858 Jul 31 j 13:25	25°♉07'49	
	-7858 Sep 19 j 18:32	0°♊	
retrograde	-7858 Nov 06 j 10:21	1°♊49'32	
	-7858 Dec 25 j 19:24	30°℞♉	
opposition	-7857 Jan 14 j 21:33	28°♉34'17	1°33'42
min. Earth dist.	-7857 Jan 15 j 03:22	28°♉33'13	9.22988 AU
direct	-7857 Mar 27 j 23:21	25°♉13'28	
	-7857 Jun 18 j 18:47	0°♊	
evening set	-7857 Jul 09 j 02:38	2°♊11'26	
conjunction	-7857 Jul 25 j 21:06	4°♊06'03	1°28'47
minimum elong	-7857 Jul 25 j 21:03	4°♊06'02	1°29'14
max. Earth dist.	-7857 Jul 25 j 11:48	4°♊03'23	11.26213 AU
morning rise	-7857 Aug 11 j 11:17	5°♊59'33	
retrograde	-7857 Nov 17 j 12:00	12°♊39'08	
opposition	-7856 Jan 26 j 09:11	9°♊24'23	2°00'47
min. Earth dist.	-7856 Jan 26 j 19:10	9°♊22'34	9.28834 AU
direct	-7856 Apr 07 j 11:46	6°♊04'36	
evening set	-7856 Jul 19 j 03:41	12°♊58'45	
conjunction	-7856 Aug 04 j 18:12	14°♊52'00	1°49'18
minimum elong	-7856 Aug 04 j 18:09	14°♊51'59	1°49'49
max. Earth dist.	-7856 Aug 04 j 04:21	14°♊48'02	11.30497 AU
morning rise	-7856 Aug 21 j 05:22	16°♊44'22	
retrograde	-7856 Nov 27 j 14:08	23°♊23'55	
opposition	-7855 Feb 05 j 20:13	20°♊09'20	2°23'25
min. Earth dist.	-7855 Feb 06 j 09:37	20°♊06'54	9.31640 AU
direct	-7855 Apr 18 j 23:30	16°♊50'21	
evening set	-7855 Jul 30 j 01:28	23°♊42'18	
conjunction	-7855 Aug 15 j 12:45	25°♊34'42	2°05'53
minimum elong	-7855 Aug 15 j 12:42	25°♊34'41	2°06'25
max. Earth dist.	-7855 Aug 14 j 19:45	25°♊29'50	11.31695 AU
morning rise	-7855 Aug 31 j 21:30	27°♊26'26	
	-7855 Sep 24 j 21:49	0°♋	
retrograde	-7855 Dec 08 j 18:35	4°♋07'59	
opposition	-7854 Feb 17 j 08:00	0°♋53'11	2°41'02
min. Earth dist.	-7854 Feb 17 j 23:19	0°♋50'24	9.31312 AU
	-7854 Mar 01 j 17:18	30°℞♊	
direct	-7854 Apr 30 j 08:13	27°♊34'50	
	-7854 Jun 26 j 05:33	0°♋	
evening set	-7854 Aug 09 j 21:52	4°♋26'04	
conjunction	-7854 Aug 26 j 06:50	6°♋18'11	2°18'03
minimum elong	-7854 Aug 26 j 06:48	6°♋18'11	2°18'35
max. Earth dist.	-7854 Aug 25 j 12:18	6°♋12'52	11.29764 AU
morning rise	-7854 Sep 11 j 13:53	8°♋09'54	
retrograde	-7854 Dec 20 j 03:48	14°♋55'19	
opposition	-7853 Feb 28 j 21:52	11°♋39'58	2°53'07
min. Earth dist.	-7853 Mar 01 j 15:01	11°♋36'51	9.27853 AU
direct	-7853 May 11 j 15:52	8°♋22'00	
evening set	-7853 Aug 20 j 18:35	15°♋14'03	
max. Earth dist.	-7853 Sep 05 j 05:11	17°♋00'28	11.24755 AU
conjunction	-7853 Sep 06 j 02:02	17°♋06'29	2°25'24
minimum elong	-7853 Sep 06 j 02:01	17°♋06'29	2°25'55
morning rise	-7853 Sep 22 j 08:31	18°♋58'46	
retrograde	-7853 Dec 31 j 17:08	25°♋49'50	
opposition	-7852 Mar 11 j 15:16	22°♋33'37	2°59'11
min. Earth dist.	-7852 Mar 12 j 10:32	22°♋30'07	9.21347 AU
direct	-7852 May 21 j 23:31	19°♋15'46	
evening set	-7852 Aug 30 j 17:26	26°♋10'11	
max. Earth dist.	-7852 Sep 15 j 01:19	27°♋56'48	11.16799 AU

Attention, astronomical year style is used: The year -7852 in astronomical counting style is the year 7853 BCE in historical counting style.

conjunction	-7852 Sep 16 j 00:16	28°♋03'30	2°27'33
minimum elong	-7852 Sep 16 j 00:17	28°♋03'31	2°28'02
morning rise	-7852 Oct 02 j 07:22	29°♋56'59	
	-7852 Oct 02 j 17:57	0°♌	
retrograde	-7851 Jan 11 j 11:59	6°♌55'30	
opposition	-7851 Mar 23 j 13:24	3°♌38'04	2°58'48
min. Earth dist.	-7851 Mar 24 j 10:01	3°♌34'18	9.11967 AU
direct	-7851 Jun 02 j 11:08	0°♌20'04	
evening set	-7851 Sep 10 j 20:04	7°♌18'20	
max. Earth dist.	-7851 Sep 26 j 04:35	9°♌06'23	11.06107 AU
conjunction	-7851 Sep 27 j 03:38	9°♌13'12	2°24'11
minimum elong	-7851 Sep 27 j 03:39	9°♌13'12	2°24'38
morning rise	-7851 Oct 13 j 12:21	11°♌08'29	
	-7851 Nov 18 j 22:44	15°♌	
retrograde	-7850 Jan 23 j 17:16	18°♌16'10	
opposition	-7850 Apr 04 j 17:29	14°♌57'12	2°51'35
	-7850 Apr 04 j 02:16	15°℞♌	
min. Earth dist.	-7850 Apr 05 j 13:45	14°♌53'27	8.99958 AU
direct	-7850 Jun 14 j 03:05	11°♌38'48	
	-7850 Aug 18 j 18:02	15°♌	
evening set	-7850 Sep 22 j 04:20	18°♌42'24	
conjunction	-7850 Oct 08 j 13:53	20°♌39'27	2°15'04
minimum elong	-7850 Oct 08 j 13:55	20°♌39'28	2°15'27
max. Earth dist.	-7850 Oct 07 j 15:25	20°♌32'43	10.92951 AU
morning rise	-7850 Oct 25 j 01:21	22°♌37'12	
retrograde	-7849 Feb 05 j 07:17	29°♌55'39	
opposition	-7849 Apr 17 j 04:43	26°♌34'56	2°37'15
min. Earth dist.	-7849 Apr 17 j 23:58	26°♌31'21	8.85651 AU
direct	-7849 Jun 25 j 22:15	23°♌15'56	
	-7849 Sep 30 j 03:11	0°♍	
evening set	-7849 Oct 03 j 20:33	0°♍26'28	
max. Earth dist.	-7849 Oct 19 j 10:55	2°♍19'34	10.77748 AU
conjunction	-7849 Oct 20 j 09:01	2°♍26'17	2°00'06
minimum elong	-7849 Oct 20 j 09:04	2°♍26'18	2°00'23
morning rise	-7849 Nov 06 j 00:27	4°♍27'08	
retrograde	-7848 Feb 18 j 08:13	11°♍57'47	
opposition	-7848 Apr 29 j 00:08	8°♍35'11	2°15'39
min. Earth dist.	-7848 Apr 29 j 18:03	8°♍31'48	8.69580 AU
direct	-7848 Jul 07 j 01:10	5°♍15'20	
evening set	-7848 Oct 14 j 22:30	12°♍34'15	
conjunction	-7848 Oct 31 j 14:54	14°♍37'25	1°39'20
minimum elong	-7848 Oct 31 j 14:57	14°♍37'26	1°39'31
max. Earth dist.	-7848 Oct 30 j 18:12	14°♍31'00	10.61141 AU
morning rise	-7848 Nov 17 j 11:22	16°♍41'54	
retrograde	-7847 Mar 02 j 20:37	24°♍25'51	
opposition	-7847 May 12 j 04:52	21°♍01'14	1°46'58
min. Earth dist.	-7847 May 12 j 20:47	20°♍58'11	8.52489 AU
direct	-7847 Jul 19 j 12:12	17°♍40'20	
evening set	-7847 Oct 27 j 12:00	25°♍08'52	
conjunction	-7847 Nov 13 j 09:18	27°♍15'47	1°13'10
minimum elong	-7847 Nov 13 j 09:21	27°♍15'48	1°13'15
max. Earth dist.	-7847 Nov 12 j 16:13	27°♍10'24	10.43910 AU
morning rise	-7847 Nov 30 j 11:27	29°♍24'17	
	-7847 Dec 05 j 07:53	0°♎	
retrograde	-7846 Mar 16 j 19:39	7°♎22'07	
opposition	-7846 May 25 j 19:01	3°♎55'26	1°11'48
min. Earth dist.	-7846 May 26 j 07:28	3°♎53'00	8.35219 AU
direct	-7846 Aug 01 j 09:50	0°♎33'18	
evening set	-7846 Nov 09 j 14:58	8°♎12'29	
conjunction	-7846 Nov 26 j 17:46	10°♎23'23	0°42'23
minimum elong	-7846 Nov 26 j 17:48	10°♎23'24	0°42'20
max. Earth dist.	-7846 Nov 26 j 05:42	10°♎19'31	10.26914 AU
morning rise	-7846 Dec 14 j 01:49	12°♎36'03	
retrograde	-7845 Mar 31 j 06:31	20°♎47'39	
opposition	-7845 Jun 08 j 18:21	17°♎19'00	0°31'20
min. Earth dist.	-7845 Jun 09 j 02:11	17°♎17'26	8.18677 AU
direct	-7845 Aug 14 j 18:00	13°♎55'30	
evening set	-7845 Nov 23 j 08:32	21°♎45'58	
conjunction	-7845 Dec 10 j 16:54	24°♎00'50	0°08'17
minimum elong	-7845 Dec 10 j 16:55	24°♎00'51	0°08'07
behind sun begin	-7845 Dec 10 j 10:31	23°♎58'47	
behind sun end	-7845 Dec 10 j 23:19	24°♎02'55	
max. Earth dist.	-7845 Dec 10 j 10:35	23°♎58'48	10.11086 AU
morning rise	-7845 Dec 28 j 06:44	26°♎17'35	
	-7844 Jan 28 j 04:02	0°♏	
desc. node	-7844 Mar 08 j 06:35	3°♏31'20	
retrograde	-7844 Apr 14 j 04:40	4°♏41'59	
opposition	-7844 Jun 22 j 02:40	1°♏11'35	-0°12'31
min. Earth dist.	-7844 Jun 22 j 05:05	1°♏11'06	8.03817 AU
	-7844 Jul 07 j 03:51	30°℞♎	
direct	-7844 Aug 27 j 11:28	27°♎46'42	
	-7844 Oct 15 j 19:37	0°♏	
evening set	-7844 Dec 06 j 16:57	5°♏48'27	
conjunction	-7844 Dec 24 j 06:34	8°♏07'00	-0°27'26
minimum elong	-7844 Dec 24 j 06:32	8°♏06'59	0°27'43
max. Earth dist.	-7844 Dec 24 j 06:12	8°♏06'52	9.97380 AU
morning rise	-7843 Jan 11 j 01:41	10°♏27'24	
	-7843 Feb 18 j 04:17	15°♏	
retrograde	-7843 Apr 29 j 11:13	19°♏02'38	
opposition	-7843 Jul 06 j 18:34	15°♏30'50	-0°57'06
min. Earth dist.	-7843 Jul 06 j 15:49	15°♏31'24	7.91573 AU
	-7843 Jul 13 j 01:05	15°℞♏	
direct	-7843 Sep 10 j 15:17	12°♏04'31	
	-7843 Nov 06 j 10:22	15°♏	
evening set	-7843 Dec 21 j 15:53	20°♏16'58	
conjunction	-7842 Jan 08 j 10:07	22°♏38'32	-1°02'17
minimum elong	-7842 Jan 08 j 10:04	22°♏38'31	1°02'40
max. Earth dist.	-7842 Jan 08 j 15:49	22°♏40'27	9.86693 AU
morning rise	-7842 Jan 26 j 09:34	25°♏01'51	
	-7842 Mar 09 j 01:50	0°♐	
retrograde	-7842 May 14 j 23:06	3°♐44'46	
opposition	-7842 Jul 21 j 15:57	0°♐12'04	-1°39'11
min. Earth dist.	-7842 Jul 21 j 08:37	0°♐13'35	7.82770 AU
	-7842 Jul 24 j 01:53	30°℞♏	
direct	-7842 Sep 25 j 05:40	26°♏44'22	
	-7842 Nov 24 j 06:34	0°♐	
evening set	-7841 Jan 06 j 03:06	5°♐05'56	
conjunction	-7841 Jan 24 j 01:02	7°♐29'40	-1°33'43
minimum elong	-7841 Jan 24 j 00:57	7°♐29'38	1°34'10
max. Earth dist.	-7841 Jan 24 j 12:42	7°♐33'35	9.79775 AU
morning rise	-7841 Feb 11 j 03:28	9°♐54'51	
retrograde	-7841 May 30 j 12:09	18°♐41'25	
opposition	-7841 Aug 05 j 16:28	15°♐08'21	-2°15'18
min. Earth dist.	-7841 Aug 05 j 05:05	15°♐10'44	7.78031 AU
direct	-7841 Oct 10 j 04:35	11°♐39'28	
evening set	-7840 Jan 21 j 22:53	20°♐07'30	
conjunction	-7840 Feb 08 j 23:26	22°♐32'19	-1°59'09
minimum elong	-7840 Feb 08 j 23:22	22°♐32'18	1°59'40
max. Earth dist.	-7840 Feb 09 j 16:35	22°♐38'06	9.77141 AU
morning rise	-7840 Feb 27 j 03:26	24°♐58'12	
	-7840 Apr 09 j 00:09	0°♑	
retrograde	-7840 Jun 13 j 22:02	3°♑43'47	
opposition	-7840 Aug 19 j 17:07	0°♑10'55	-2°42'22

Attention, astronomical year style is used: The year -7840 in astronomical counting style is the year 7841 BCE in historical counting style.

min. Earth dist.	-7840 Aug 19 j 02:21	0°♑14'02	7.77703 AU
	-7840 Aug 21 j 20:49	30°℞♐	
direct	-7840 Oct 24 j 08:23	26°♐41'05	
	-7840 Dec 24 j 03:53	0°♑	
evening set	-7839 Feb 05 j 22:57	5°♑12'14	
conjunction	-7839 Feb 24 j 01:08	7°♑37'03	-2°16'32
minimum elong	-7839 Feb 24 j 01:05	7°♑37'02	2°17'03
max. Earth dist.	-7839 Feb 24 j 22:39	7°♑44'16	9.79000 AU
morning rise	-7839 Mar 14 j 05:24	10°♑02'26	
retrograde	-7839 Jun 29 j 02:00	18°♑42'16	
opposition	-7839 Sep 03 j 14:41	15°♑10'10	-2°58'10
min. Earth dist.	-7839 Sep 02 j 21:18	15°♑13'50	7.81798 AU
direct	-7839 Nov 08 j 13:51	11°♑39'43	
evening set	-7838 Feb 21 j 22:07	20°♑10'12	
conjunction	-7838 Mar 12 j 00:59	22°♑33'58	-2°24'35
minimum elong	-7838 Mar 12 j 00:58	22°♑33'58	2°25'06
max. Earth dist.	-7838 Mar 13 j 01:29	22°♑42'07	9.85201 AU
morning rise	-7838 Mar 30 j 04:24	24°♑57'46	
	-7838 May 11 j 20:24	0°♒	
retrograde	-7838 Jul 13 j 21:18	3°♒27'42	
min. Earth dist.	-7838 Sep 17 j 11:27	0°♒00'54	7.89992 AU
	-7838 Sep 17 j 15:46	30°℞♑	
opposition	-7838 Sep 18 j 06:40	29°♑56'52	-3°01'50
direct	-7838 Nov 23 j 17:38	26°♑26'13	
	-7837 Jan 27 j 03:05	0°♒	
evening set	-7837 Mar 09 j 15:19	4°♒52'16	
conjunction	-7837 Mar 27 j 17:57	7°♒14'05	-2°23'05
minimum elong	-7837 Mar 27 j 17:59	7°♒14'06	2°23'33
max. Earth dist.	-7837 Mar 28 j 20:01	7°♒22'39	9.95274 AU
morning rise	-7837 Apr 14 j 19:36	9°♒35'28	
	-7837 Jun 01 j 03:23	15°♒	
retrograde	-7837 Jul 28 j 06:03	17°♒52'24	
	-7837 Sep 25 j 05:18	15°℞♒	
opposition	-7837 Oct 02 j 14:50	14°♒23'14	-2°53'45
min. Earth dist.	-7837 Oct 01 j 18:56	14°♒27'22	8.01689 AU
direct	-7837 Dec 08 j 16:39	10°♒52'48	
	-7836 Feb 17 j 08:07	15°♒	
evening set	-7836 Mar 23 j 22:45	19°♒11'15	
conjunction	-7836 Apr 11 j 00:24	21°♒30'28	-2°12'44
minimum elong	-7836 Apr 11 j 00:27	21°♒30'29	2°13'07
max. Earth dist.	-7836 Apr 12 j 02:19	21°♒38'51	10.08507 AU
morning rise	-7836 Apr 28 j 23:38	23°♒48'50	
	-7836 Jun 25 j 17:53	0°♓	
retrograde	-7836 Aug 10 j 02:41	1°♓50'52	
	-7836 Sep 25 j 05:59	30°℞♒	
opposition	-7836 Oct 15 j 13:39	28°♒23'41	-2°35'25
min. Earth dist.	-7836 Oct 14 j 18:32	28°♒27'37	8.16098 AU
direct	-7836 Dec 22 j 08:57	24°♒53'52	
	-7835 Mar 13 j 02:25	0°♓	
evening set	-7835 Apr 07 j 17:48	3°♓02'26	
conjunction	-7835 Apr 25 j 17:41	5°♓18'35	-1°54'56
minimum elong	-7835 Apr 25 j 17:45	5°♓18'36	1°55'13
max. Earth dist.	-7835 Apr 26 j 17:45	5°♓26'14	10.24015 AU
morning rise	-7835 May 13 j 13:57	7°♓33'33	
retrograde	-7835 Aug 23 j 09:50	15°♓20'08	
min. Earth dist.	-7835 Oct 28 j 09:53	11°♓58'31	8.32310 AU
opposition	-7835 Oct 29 j 02:44	11°♓55'07	-2°09'01
direct	-7834 Jan 05 j 16:14	8°♓26'14	
evening set	-7834 Apr 21 j 23:04	16°♓23'36	
conjunction	-7834 May 09 j 20:18	18°♓36'24	-1°31'26
minimum elong	-7834 May 09 j 20:22	18°♓36'26	1°31'36
max. Earth dist.	-7834 May 10 j 16:53	18°♓42'49	10.40849 AU
morning rise	-7834 May 27 j 13:08	20°♓47'48	
retrograde	-7834 Sep 05 j 05:11	28°♓19'27	
opposition	-7834 Nov 11 j 05:57	24°♓56'36	-1°36'53
min. Earth dist.	-7834 Nov 10 j 16:08	24°♓59'21	8.49402 AU
direct	-7833 Jan 19 j 13:15	21°♓28'57	
evening set	-7833 May 05 j 14:12	29°♓14'39	
	-7833 May 11 j 20:41	0°♈	
conjunction	-7833 May 23 j 08:06	1°♈24'02	-1°04'05
minimum elong	-7833 May 23 j 08:09	1°♈24'02	1°04'08
max. Earth dist.	-7833 May 23 j 23:47	1°♈28'49	10.58093 AU
morning rise	-7833 Jun 09 j 21:10	3°♈31'52	
retrograde	-7833 Sep 17 j 13:06	10°♈49'51	
opposition	-7833 Nov 23 j 23:43	7°♈29'04	-1°01'21
min. Earth dist.	-7833 Nov 23 j 12:56	7°♈31'11	8.66492 AU
direct	-7832 Feb 02 j 00:05	4°♈02'47	
evening set	-7832 May 17 j 15:40	11°♈37'05	
conjunction	-7832 Jun 04 j 05:47	13°♈43'07	-0°34'37
minimum elong	-7832 Jun 04 j 05:49	13°♈43'08	0°34'32
max. Earth dist.	-7832 Jun 04 j 16:36	13°♈46'22	10.74889 AU
morning rise	-7832 Jun 21 j 14:45	15°♈47'34	
retrograde	-7832 Sep 28 j 11:14	22°♈53'41	
opposition	-7832 Dec 05 j 09:02	19°♈34'44	-0°24'24
min. Earth dist.	-7832 Dec 05 j 01:17	19°♈36'14	8.82756 AU
direct	-7831 Feb 14 j 01:52	16°♈09'53	
evening set	-7831 May 30 j 04:46	23°♈33'39	
conjunction	-7831 Jun 16 j 14:42	25°♈36'30	-0°04'35
minimum elong	-7831 Jun 16 j 14:42	25°♈36'30	0°04'24
behind sun begin	-7831 Jun 16 j 07:42	25°♈34'27	
behind sun end	-7831 Jun 16 j 21:41	25°♈38'33	
max. Earth dist.	-7831 Jun 16 j 21:09	25°♈38'23	10.90457 AU
morning rise	-7831 Jul 03 j 19:10	27°♈37'46	
	-7831 Jul 25 j 03:41	0°♉	
asc. node	-7831 Aug 12 j 21:39	1°♉48'56	
retrograde	-7831 Oct 10 j 03:28	4°♉34'06	
opposition	-7831 Dec 17 j 11:07	1°♉16'44	0°12'17
min. Earth dist.	-7831 Dec 17 j 07:17	1°♉17'28	8.97476 AU
	-7830 Jan 03 j 19:17	30°℞♈	
direct	-7830 Feb 26 j 16:08	27°♈53'18	
	-7830 Apr 20 j 08:18	0°♉	
evening set	-7830 Jun 11 j 06:54	5°♉07'43	
conjunction	-7830 Jun 28 j 12:20	7°♉07'42	0°24'57
minimum elong	-7830 Jun 28 j 12:19	7°♉07'41	0°25'13
max. Earth dist.	-7830 Jun 28 j 14:09	7°♉08'13	11.04138 AU
morning rise	-7830 Jul 15 j 12:20	9°♉06'09	
	-7830 Sep 18 j 12:01	15°♉	
retrograde	-7830 Oct 21 j 12:17	15°♉54'54	
	-7830 Nov 24 j 03:10	15°℞♉	
opposition	-7830 Dec 29 j 07:28	12°♉38'49	0°47'21
min. Earth dist.	-7830 Dec 29 j 08:26	12°♉38'38	9.10048 AU
direct	-7829 Mar 10 j 21:25	9°♉16'41	
	-7829 Jun 10 j 10:49	15°♉	
evening set	-7829 Jun 22 j 23:37	16°♉23'17	
conjunction	-7829 Jul 10 j 00:23	18°♉20'45	0°52'45
minimum elong	-7829 Jul 10 j 00:21	18°♉20'44	0°53'05
max. Earth dist.	-7829 Jul 09 j 20:22	18°♉19'35	11.15384 AU
morning rise	-7829 Jul 26 j 20:15	20°♉16'51	
retrograde	-7829 Nov 01 j 17:01	27°♉00'19	
opposition	-7828 Jan 09 j 23:17	23°♉45'11	1°19'47
min. Earth dist.	-7828 Jan 10 j 04:46	23°♉44'10	9.19982 AU
direct	-7828 Mar 21 j 21:18	20°♉24'13	
evening set	-7828 Jul 03 j 08:55	27°♉24'41	

Attention, astronomical year style is used: The year -7828 in astronomical counting style is the year 7829 BCE in historical counting style.

conjunction	-7828 Jul 20 j 05:13	29°♉20'05	1°18'04	
minimum elong	-7828 Jul 20 j 05:10	29°♉20'04	1°18'29	
max. Earth dist.	-7828 Jul 19 j 19:58	29°♉17'25	11.23813 AU	
	-7828 Jul 26 j 00:08	0°♊		
morning rise	-7828 Aug 05 j 21:15	1°♊14'18		
retrograde	-7828 Nov 11 j 19:17	7°♊54'43		
opposition	-7827 Jan 20 j 12:03	4°♊40'09	1°48'44	
min. Earth dist.	-7827 Jan 20 j 20:46	4°♊38'33	9.26978 AU	
direct	-7827 Apr 02 j 14:33	1°♊20'12		
evening set	-7827 Jul 14 j 12:26	8°♊16'09		
conjunction	-7827 Jul 31 j 04:47	10°♊09'59	1°40'15	
minimum elong	-7827 Jul 31 j 04:44	10°♊09'58	1°40'44	
max. Earth dist.	-7827 Jul 30 j 16:21	10°♊06'25	11.29223 AU	
morning rise	-7827 Aug 16 j 17:17	12°♊02'49		
retrograde	-7827 Nov 22 j 23:15	18°♊42'18		
opposition	-7826 Jan 31 j 23:39	15°♊27'55	2°13'31	
min. Earth dist.	-7826 Feb 01 j 11:28	15°♊25'46	9.30889 AU	
direct	-7826 Apr 14 j 03:51	12°♊08'46		
evening set	-7826 Jul 25 j 11:49	19°♊01'44		
max. Earth dist.	-7826 Aug 10 j 08:55	20°♊50'00	11.31508 AU	
conjunction	-7826 Aug 11 j 00:40	20°♊54'30	1°58'44	
minimum elong	-7826 Aug 11 j 00:38	20°♊54'30	1°59'14	
morning rise	-7826 Aug 27 j 10:20	22°♊46'29		
retrograde	-7826 Dec 04 j 02:01	29°♊27'02		
opposition	-7825 Feb 12 j 11:18	26°♊12'28	2°33'32	
min. Earth dist.	-7825 Feb 13 j 02:39	26°♊09'41	9.31645 AU	
direct	-7825 Apr 25 j 11:57	22°♊53'52		
evening set	-7825 Aug 05 j 09:02	29°♊45'25		
	-7825 Aug 07 j 12:51	0°♋		
conjunction	-7825 Aug 21 j 18:57	1°♋37'40	2°13'00	
minimum elong	-7825 Aug 21 j 18:55	1°♋37'39	2°13'31	
max. Earth dist.	-7825 Aug 20 j 23:22	1°♋32'02	11.30643 AU	
morning rise	-7825 Sep 07 j 02:47	3°♋29'22		
retrograde	-7825 Dec 15 j 07:32	10°♋12'54		
opposition	-7824 Feb 24 j 00:03	6°♋57'45	2°48'15	
min. Earth dist.	-7824 Feb 24 j 18:18	6°♋54'27	9.29245 AU	
direct	-7824 May 05 j 21:12	3°♋39'25		
evening set	-7824 Aug 15 j 05:31	10°♋31'11		
conjunction	-7824 Aug 31 j 13:30	12°♋23'27	2°22'38	
minimum elong	-7824 Aug 31 j 13:28	12°♋23'27	2°23'09	
max. Earth dist.	-7824 Aug 30 j 15:57	12°♋17'14	11.26667 AU	
morning rise	-7824 Sep 16 j 20:16	14°♋15'28		
retrograde	-7824 Dec 25 j 18:35	21°♋03'51		
opposition	-7823 Mar 06 j 15:39	17°♋47'48	2°57'11	
min. Earth dist.	-7823 Mar 07 j 11:02	17°♋44'17	9.23761 AU	
direct	-7823 May 17 j 06:07	14°♋29'33		
evening set	-7823 Aug 26 j 02:56	21°♋22'57		
max. Earth dist.	-7823 Sep 10 j 11:54	23°♋09'26	11.19699 AU	
conjunction	-7823 Sep 11 j 10:04	23°♋15'53	2°27'14	
minimum elong	-7823 Sep 11 j 10:04	23°♋15'53	2°27'44	
morning rise	-7823 Sep 27 j 16:42	25°♋08'48		
	-7823 Nov 15 j 20:28	0°♌		
retrograde	-7822 Jan 06 j 11:31	2°♌03'54		
	-7822 Mar 01 j 07:33	30°℞♋		
opposition	-7822 Mar 18 j 11:24	28°♋46'37	2°59'52	
min. Earth dist.	-7822 Mar 19 j 07:17	28°♋42'59	9.15361 AU	
direct	-7822 May 28 j 15:46	25°♋28'14		
	-7822 Aug 15 j 04:10	0°♌		
evening set	-7822 Sep 06 j 03:29	2°♌24'49		
max. Earth dist.	-7822 Sep 21 j 11:27	4°♌12'11	11.09961 AU	
conjunction	-7822 Sep 22 j 10:44	4°♌19'01	2°26'28	
minimum elong	-7822 Sep 22 j 10:45	4°♌19'02	2°26'57	
morning rise	-7822 Oct 08 j 18:31	6°♌13'30		
retrograde	-7821 Jan 18 j 12:21	13°♌17'00		
opposition	-7821 Mar 30 j 12:26	9°♌58'15	2°55'53	
min. Earth dist.	-7821 Mar 31 j 09:05	9°♌54'27	9.04315 AU	
direct	-7821 Jun 09 j 04:05	6°♌39'31		
evening set	-7821 Sep 17 j 08:52	13°♌40'50		
	-7821 Sep 28 j 13:21	15°♌		
conjunction	-7821 Oct 03 j 17:19	15°♌36'55	2°20'03	
minimum elong	-7821 Oct 03 j 17:21	15°♌36'56	2°20'29	
max. Earth dist.	-7821 Oct 02 j 17:22	15°♌29'47	10.97769 AU	
morning rise	-7821 Oct 20 j 03:32	17°♌33'36		
retrograde	-7820 Jan 30 j 19:41	24°♌47'09		
opposition	-7820 Apr 10 j 20:09	21°♌26'44	2°44'54	
min. Earth dist.	-7820 Apr 11 j 16:43	21°♌22'54	8.90979 AU	
direct	-7820 Jun 19 j 20:41	18°♌07'27		
evening set	-7820 Sep 27 j 20:53	25°♌15'00		
max. Earth dist.	-7820 Oct 13 j 09:19	27°♌06'46	10.83517 AU	
conjunction	-7820 Oct 14 j 07:50	27°♌13'35	2°07'49	
minimum elong	-7820 Oct 14 j 07:53	27°♌13'36	2°08'09	
morning rise	-7820 Oct 30 j 21:26	29°♌13'03		
	-7820 Nov 06 j 13:32	0°♍		
retrograde	-7819 Feb 11 j 15:21	6°♍38'11		
opposition	-7819 Apr 23 j 11:38	3°♍15'55	2°26'40	
min. Earth dist.	-7819 Apr 24 j 06:26	3°♍12'23	8.75820 AU	
	-7819 Jun 23 j 00:16	30°℞♌		
direct	-7819 Jul 01 j 22:08	29°♌55'57		
	-7819 Jul 10 j 17:09	0°♍		
evening set	-7819 Oct 09 j 17:46	7°♍11'06		
conjunction	-7819 Oct 26 j 08:22	9°♍12'46	1°49'43	
minimum elong	-7819 Oct 26 j 08:26	9°♍12'47	1°49'57	
max. Earth dist.	-7819 Oct 25 j 12:33	9°♍06'40	10.67728 AU	
morning rise	-7819 Nov 12 j 02:21	11°♍15'36		
retrograde	-7818 Feb 24 j 22:53	18°♍53'30		
opposition	-7818 May 06 j 11:44	15°♍29'19	2°01'13	
min. Earth dist.	-7818 May 07 j 03:29	15°♍26'18	8.59432 AU	
direct	-7818 Jul 14 j 04:29	12°♍08'29		
evening set	-7818 Oct 22 j 01:31	19°♍32'35		
conjunction	-7818 Nov 07 j 20:35	21°♍37'48	1°25'59	
minimum elong	-7818 Nov 07 j 20:38	21°♍37'49	1°26'07	
max. Earth dist.	-7818 Nov 07 j 03:21	21°♍32'24	10.51044 AU	
morning rise	-7818 Nov 24 j 19:55	23°♍44'27		
	-7817 Jan 25 j 12:05	0°♎		
retrograde	-7817 Mar 10 j 17:35	1°♎35'55		
	-7817 Apr 24 j 21:21	30°℞♍		
opposition	-7817 May 19 j 21:15	28°♍09'49	1°28'56	
min. Earth dist.	-7817 May 20 j 09:44	28°♍07'23	8.42521 AU	
direct	-7817 Jul 26 j 19:42	24°♍47'59		
	-7817 Oct 15 j 03:38	0°♎		
evening set	-7817 Nov 03 j 21:56	2°♎22'13		
conjunction	-7817 Nov 20 j 22:01	4°♎31'16	0°57'13	
minimum elong	-7817 Nov 20 j 22:04	4°♎31'17	0°57'14	
max. Earth dist.	-7817 Nov 20 j 08:09	4°♎26'52	10.34226 AU	
morning rise	-7817 Dec 08 j 03:15	6°♎42'01		
retrograde	-7816 Mar 23 j 23:25	14°♎47'19		
opposition	-7816 Jun 01 j 16:19	11°♎19'23	0°50'43	
min. Earth dist.	-7816 Jun 02 j 01:12	11°♎17'37	8.25928 AU	
direct	-7816 Aug 07 j 22:13	7°♎56'26		
evening set	-7816 Nov 16 j 08:26	15°♎41'37		
conjunction	-7816 Dec 03 j 14:00	17°♎54'39	0°24'26	
minimum elong	-7816 Dec 03 j 14:01	17°♎54'39	0°24'20	

Attention, astronomical year style is used: The year -7816 in astronomical counting style is the year 7817 BCE in historical counting style.

max. Earth dist.	-7816 Dec 03 j 04:52	17°♎51'42	10.18155 AU
morning rise	-7816 Dec 21 j 01:15	20°♎09'32	
retrograde	-7815 Apr 07 j 16:41	28°♎28'08	
opposition	-7815 Jun 15 j 20:44	24°♎58'33	0°08'08
min. Earth dist.	-7815 Jun 16 j 01:23	24°♎57'37	8.10580 AU
direct	-7815 Aug 21 j 11:10	21°♎34'23	
desc. node	-7815 Aug 24 j 05:16	21°♎34'49	
evening set	-7815 Nov 30 j 09:55	29°♎30'53	
	-7815 Dec 04 j 04:03	0°♏	
conjunction	-7815 Dec 17 j 21:00	1°♏47'43	-0°10'51
minimum elong	-7815 Dec 17 j 20:59	1°♏47'43	0°11'04
behind sun begin	-7815 Dec 17 j 15:36	1°♏45'58	
behind sun end	-7815 Dec 18 j 02:23	1°♏49'28	
max. Earth dist.	-7815 Dec 17 j 18:05	1°♏46'46	10.03760 AU
morning rise	-7814 Jan 04 j 13:51	4°♏06'28	
retrograde	-7814 Apr 22 j 19:07	12°♏36'52	
opposition	-7814 Jun 30 j 09:24	9°♏05'55	-0°36'30
min. Earth dist.	-7814 Jun 30 j 09:08	9°♏05'58	7.97416 AU
direct	-7814 Sep 04 j 11:20	5°♏40'31	
evening set	-7814 Dec 15 j 02:22	13°♏48'01	
	-7814 Dec 24 j 05:22	15°♏	
conjunction	-7813 Jan 01 j 18:30	16°♏08'11	-0°46'22
minimum elong	-7813 Jan 01 j 18:27	16°♏08'10	0°46'42
max. Earth dist.	-7813 Jan 01 j 22:26	16°♏09'29	9.91961 AU
morning rise	-7813 Jan 19 j 16:00	18°♏30'09	
retrograde	-7813 May 08 j 04:13	27°♏09'43	
opposition	-7813 Jul 15 j 04:31	23°♏37'48	-1°20'09
min. Earth dist.	-7813 Jul 14 j 22:52	23°♏38'58	7.87314 AU
direct	-7813 Sep 18 j 21:46	20°♏11'11	
evening set	-7813 Dec 30 j 08:14	28°♏28'28	
	-7812 Jan 10 j 19:54	0°♐	
conjunction	-7812 Jan 17 j 04:33	0°♐51'11	-1°19'42
minimum elong	-7812 Jan 17 j 04:29	0°♐51'10	1°20'08
max. Earth dist.	-7812 Jan 17 j 15:16	0°♐54'47	9.83592 AU
morning rise	-7812 Feb 04 j 05:33	3°♐15'29	
retrograde	-7812 May 22 j 16:50	12°♐00'33	
opposition	-7812 Jul 29 j 04:00	8°♐28'06	-1°59'25
min. Earth dist.	-7812 Jul 28 j 17:19	8°♐30'20	7.80993 AU
direct	-7812 Oct 02 j 16:36	5°♐00'21	
evening set	-7811 Jan 14 j 00:30	13°♐25'11	
conjunction	-7811 Jan 31 j 23:59	15°♐49'28	-1°48'12
minimum elong	-7811 Jan 31 j 23:55	15°♐49'26	1°48'42
max. Earth dist.	-7811 Feb 01 j 16:43	15°♐55'06	9.79260 AU
morning rise	-7811 Feb 19 j 03:10	18°♐14'57	
retrograde	-7811 Jun 07 j 04:56	27°♐01'03	
opposition	-7811 Aug 13 j 04:52	23°♐28'35	-2°30'58
min. Earth dist.	-7811 Aug 12 j 14:16	23°♐31'39	7.78870 AU
direct	-7811 Oct 17 j 17:14	19°♐59'47	
evening set	-7810 Jan 29 j 23:15	28°♐29'12	
	-7810 Feb 10 j 08:10	0°♑	
conjunction	-7810 Feb 17 j 00:46	0°♑53'56	-2°09'30
minimum elong	-7810 Feb 17 j 00:43	0°♑53'55	2°10'01
max. Earth dist.	-7810 Feb 17 j 21:54	1°♑01'02	9.79214 AU
morning rise	-7810 Mar 07 j 04:46	3°♑19'25	
retrograde	-7810 Jun 22 j 13:05	12°♑01'50	
min. Earth dist.	-7810 Aug 27 j 11:00	8°♑33'27	7.80985 AU
opposition	-7810 Aug 28 j 03:58	8°♑29'53	-2°52'09
direct	-7810 Nov 01 j 21:27	5°♑00'17	
evening set	-7809 Feb 14 j 23:17	13°♑30'50	
conjunction	-7809 Mar 05 j 01:50	15°♑54'59	-2°21'57
minimum elong	-7809 Mar 05 j 01:48	15°♑54'58	2°22'28
max. Earth dist.	-7809 Mar 06 j 01:29	16°♑02'53	9.83340 AU
morning rise	-7809 Mar 23 j 05:30	18°♑19'25	
retrograde	-7809 Jul 07 j 13:56	26°♑53'56	
opposition	-7809 Sep 11 j 22:52	23°♑23'02	-3°01'27
min. Earth dist.	-7809 Sep 11 j 04:54	23°♑26'49	7.87086 AU
direct	-7809 Nov 17 j 02:03	19°♑53'00	
evening set	-7808 Mar 01 j 19:40	28°♑21'06	
	-7808 Mar 14 j 09:44	0°♒	
conjunction	-7808 Mar 19 j 22:21	0°♒43'47	-2°24'50
minimum elong	-7808 Mar 19 j 22:22	0°♒43'48	2°25'18
max. Earth dist.	-7808 Mar 20 j 22:57	0°♒51'55	9.91320 AU
morning rise	-7808 Apr 07 j 00:51	3°♒06'17	
retrograde	-7808 Jul 21 j 04:29	11°♒29'26	
opposition	-7808 Sep 25 j 11:05	8°♒00'00	-2°58'41
min. Earth dist.	-7808 Sep 24 j 16:56	8°♒03'47	7.96793 AU
direct	-7808 Dec 01 j 04:23	4°♒29'53	
evening set	-7807 Mar 17 j 08:27	12°♒52'11	
	-7807 Apr 02 j 19:43	15°♒	
conjunction	-7807 Apr 04 j 10:32	15°♒12'38	-2°18'26
minimum elong	-7807 Apr 04 j 10:34	15°♒12'39	2°18'51
max. Earth dist.	-7807 Apr 05 j 10:40	15°♒20'30	10.02681 AU
morning rise	-7807 Apr 22 j 11:04	17°♒32'28	
retrograde	-7807 Aug 04 j 06:06	25°♒41'44	
opposition	-7807 Oct 09 j 14:44	22°♒14'03	-2°44'53
min. Earth dist.	-7807 Oct 08 j 21:00	22°♒17'42	8.09522 AU
direct	-7807 Dec 16 j 01:47	18°♒44'13	
evening set	-7806 Apr 01 j 10:06	26°♒57'54	
conjunction	-7806 Apr 19 j 10:47	29°♒15'33	-2°03'52
minimum elong	-7806 Apr 19 j 10:51	29°♒15'35	2°04'11
max. Earth dist.	-7806 Apr 20 j 09:21	29°♒22'47	10.16707 AU
	-7806 Apr 25 j 05:39	0°♓	
morning rise	-7806 May 07 j 08:41	1°♓32'13	
retrograde	-7806 Aug 17 j 18:38	9°♓26'23	
opposition	-7806 Oct 23 j 08:56	6°♓00'36	-2°21'55
min. Earth dist.	-7806 Oct 22 j 16:06	6°♓04'01	8.24478 AU
direct	-7806 Dec 30 j 14:14	2°♓31'25	
evening set	-7805 Apr 15 j 22:13	10°♓34'31	
conjunction	-7805 May 03 j 20:48	12°♓49'01	-1°42'45
minimum elong	-7805 May 03 j 20:52	12°♓49'02	1°42'58
max. Earth dist.	-7805 May 04 j 17:02	12°♓55'23	10.32523 AU
morning rise	-7805 May 21 j 15:29	15°♓02'12	
retrograde	-7805 Aug 30 j 20:23	22°♓41'15	
opposition	-7805 Nov 05 j 17:07	19°♓17'24	-1°52'08
min. Earth dist.	-7805 Nov 05 j 01:59	19°♓20'27	8.40767 AU
direct	-7804 Jan 13 j 16:18	15°♓49'09	
evening set	-7804 Apr 28 j 20:22	23°♓40'47	
conjunction	-7804 May 16 j 16:08	25°♓51'56	-1°16'56
minimum elong	-7804 May 16 j 16:12	25°♓51'57	1°17'02
max. Earth dist.	-7804 May 17 j 09:27	25°♓57'17	10.49204 AU
morning rise	-7804 Jun 03 j 07:05	28°♓01'35	
	-7804 Jun 20 j 03:15	0°♈	
retrograde	-7804 Sep 11 j 10:37	5°♈26'20	
opposition	-7804 Nov 17 j 15:30	2°♈04'26	-1°17'53
min. Earth dist.	-7804 Nov 17 j 03:30	2°♈06'48	8.57493 AU
	-7804 Dec 15 j 22:10	30°℞♓	
direct	-7803 Jan 26 j 07:42	28°♓37'16	
	-7803 Mar 08 j 12:03	0°♈	
evening set	-7803 May 12 j 04:38	6°♈17'25	
conjunction	-7803 May 29 j 20:51	8°♈25'11	-0°48'13
minimum elong	-7803 May 29 j 20:53	8°♈25'12	0°48'12
max. Earth dist.	-7803 May 30 j 09:56	8°♈29'09	10.65865 AU

Attention, astronomical year style is used: The year -7803 in astronomical counting style is the year 7804 BCE in historical counting style.

morning rise	-7803 Jun 16 j 07:43	10°♈31'22	
retrograde	-7803 Sep 23 j 13:21	17°♈43'23	
opposition	-7803 Nov 30 j 05:07	14°♈23'18	-0°41'19
min. Earth dist.	-7803 Nov 29 j 21:01	14°♈24'52	8.73827 AU
direct	-7802 Feb 08 j 14:04	10°♈57'22	
evening set	-7802 May 24 j 23:43	18°♈26'34	
conjunction	-7802 Jun 11 j 11:43	20°♈31'04	-0°18'14
minimum elong	-7802 Jun 11 j 11:44	20°♈31'04	0°18'06
max. Earth dist.	-7802 Jun 11 j 19:35	20°♈33'24	10.81725 AU
morning rise	-7802 Jun 28 j 18:21	22°♈33'59	
retrograde	-7802 Oct 05 j 07:50	29°♈35'14	
opposition	-7802 Dec 12 j 10:49	26°♈16'44	-0°04'17
min. Earth dist.	-7802 Dec 12 j 06:29	26°♈17'34	8.89047 AU
asc. node	-7801 Jan 25 j 05:05	23°♈27'25	
direct	-7801 Feb 21 j 09:49	22°♈52'08	
	-7801 Jun 04 j 15:14	0°♉	
evening set	-7801 Jun 06 j 06:59	0°♉11'25	
conjunction	-7801 Jun 23 j 14:31	2°♉12'54	0°11'44
minimum elong	-7801 Jun 23 j 14:30	2°♉12'54	0°11'58
behind sun begin	-7801 Jun 23 j 09:37	2°♉11'28	
behind sun end	-7801 Jun 23 j 19:24	2°♉14'19	
max. Earth dist.	-7801 Jun 23 j 17:08	2°♉13'39	10.96132 AU
morning rise	-7801 Jul 10 j 16:51	4°♉12'50	
retrograde	-7801 Oct 16 j 18:34	11°♉05'28	
opposition	-7801 Dec 24 j 09:42	7°♉48'18	0°31'43
min. Earth dist.	-7801 Dec 24 j 08:26	7°♉48'32	9.02548 AU
direct	-7800 Mar 04 j 20:44	4°♉25'00	
evening set	-7800 Jun 17 j 04:03	11°♉35'44	
conjunction	-7800 Jul 04 j 07:07	13°♉34'30	0°40'24
minimum elong	-7800 Jul 04 j 07:05	13°♉34'30	0°40'43
max. Earth dist.	-7800 Jul 04 j 05:49	13°♉34'08	11.08540 AU
	-7800 Jul 16 j 13:46	15°♉	
morning rise	-7800 Jul 21 j 05:03	15°♉31'52	
retrograde	-7800 Oct 27 j 02:56	22°♉18'04	
opposition	-7799 Jan 04 j 03:31	19°♉01'58	1°05'30
min. Earth dist.	-7799 Jan 04 j 05:42	19°♉01'34	9.13835 AU
direct	-7799 Mar 16 j 23:48	15°♉39'57	
evening set	-7799 Jun 28 j 16:40	22°♉43'35	
conjunction	-7799 Jul 15 j 15:13	24°♉40'04	1°06'58
minimum elong	-7799 Jul 15 j 15:11	24°♉40'04	1°07'21
max. Earth dist.	-7799 Jul 15 j 10:06	24°♉38'36	11.18520 AU
morning rise	-7799 Aug 01 j 08:56	26°♉35'15	
	-7799 Sep 03 j 01:22	0°♊	
retrograde	-7799 Nov 07 j 05:55	3°♊17'13	
opposition	-7798 Jan 15 j 17:45	0°♊01'55	1°36'09
min. Earth dist.	-7798 Jan 16 j 00:05	0°♊00'45	9.22544 AU
	-7798 Jan 16 j 04:12	30°℞♉	
direct	-7798 Mar 28 j 17:49	26°♉41'03	
	-7798 Jun 04 j 11:22	0°♊	
evening set	-7798 Jul 09 j 22:42	3°♊39'13	
conjunction	-7798 Jul 26 j 16:52	5°♊33'50	1°30'39
minimum elong	-7798 Jul 26 j 16:50	5°♊33'50	1°31'07
max. Earth dist.	-7798 Jul 26 j 07:00	5°♊31'00	11.25774 AU
morning rise	-7798 Aug 12 j 06:59	7°♊27'22	
retrograde	-7798 Nov 18 j 07:39	14°♊07'14	
opposition	-7797 Jan 27 j 05:45	10°♊52'24	2°02'54
min. Earth dist.	-7797 Jan 27 j 15:48	10°♊50'34	9.28416 AU
direct	-7797 Apr 09 j 09:04	7°♊32'32	
evening set	-7797 Jul 20 j 23:40	14°♊26'50	
conjunction	-7797 Aug 06 j 14:01	16°♊20'05	1°50'52
minimum elong	-7797 Aug 06 j 13:58	16°♊20'04	1°51'22
max. Earth dist.	-7797 Aug 06 j 00:18	16°♊16'09	11.30090 AU
morning rise	-7797 Aug 23 j 01:06	18°♊12'27	
retrograde	-7797 Nov 29 j 10:15	24°♊52'17	
opposition	-7796 Feb 07 j 16:53	21°♊37'35	2°25'07
min. Earth dist.	-7796 Feb 08 j 05:25	21°♊35'18	9.31252 AU
direct	-7796 Apr 19 j 20:07	18°♊18'33	
evening set	-7796 Jul 30 j 21:29	25°♊10'34	
conjunction	-7796 Aug 16 j 08:44	27°♊02'59	2°07'05
minimum elong	-7796 Aug 16 j 08:41	27°♊02'58	2°07'36
max. Earth dist.	-7796 Aug 15 j 16:48	26°♊58'25	11.31320 AU
morning rise	-7796 Sep 01 j 17:17	28°♊54'44	
	-7796 Sep 11 j 13:54	0°♋	
retrograde	-7796 Dec 09 j 15:41	5°♋36'31	
opposition	-7795 Feb 18 j 04:45	2°♋21'36	2°42'15
min. Earth dist.	-7795 Feb 18 j 19:25	2°♋18'57	9.30957 AU
	-7795 Mar 26 j 12:36	30°℞♊	
direct	-7795 May 01 j 04:58	29°♊03'13	
	-7795 Jun 05 j 03:50	0°♋	
evening set	-7795 Aug 10 j 17:58	5°♋54'30	
max. Earth dist.	-7795 Aug 26 j 08:28	7°♋41'22	11.29430 AU
conjunction	-7795 Aug 27 j 02:49	7°♋46'38	2°18'50
minimum elong	-7795 Aug 27 j 02:47	7°♋46'38	2°19'21
morning rise	-7795 Sep 12 j 09:47	9°♋38'21	
retrograde	-7795 Dec 21 j 00:37	16°♋23'58	
opposition	-7794 Mar 01 j 18:55	13°♋08'32	2°53'48
min. Earth dist.	-7794 Mar 02 j 12:15	13°♋05'23	9.27548 AU
direct	-7794 May 12 j 11:58	9°♋50'32	
evening set	-7794 Aug 21 j 14:42	16°♋42'36	
conjunction	-7794 Sep 06 j 21:58	18°♋35'02	2°25'44
minimum elong	-7794 Sep 06 j 21:57	18°♋35'02	2°26'14
max. Earth dist.	-7794 Sep 06 j 00:53	18°♋28'56	11.24484 AU
morning rise	-7794 Sep 23 j 04:34	20°♋27'21	
retrograde	-7793 Jan 01 j 12:47	27°♋18'38	
opposition	-7793 Mar 13 j 12:26	24°♋02'19	2°59'18
min. Earth dist.	-7793 Mar 14 j 07:42	23°♋58'49	9.21113 AU
direct	-7793 May 23 j 20:31	20°♋44'26	
evening set	-7793 Sep 01 j 13:31	27°♋38'51	
conjunction	-7793 Sep 17 j 20:25	29°♋32'12	2°27'24
minimum elong	-7793 Sep 17 j 20:26	29°♋32'12	2°27'53
max. Earth dist.	-7793 Sep 16 j 22:16	29°♋25'44	11.16608 AU
	-7793 Sep 21 j 19:35	0°♌	
morning rise	-7793 Oct 04 j 03:34	1°♌25'42	
retrograde	-7792 Jan 13 j 09:31	8°♌24'23	
opposition	-7792 Mar 24 j 10:25	5°♌06'53	2°58'20
min. Earth dist.	-7792 Mar 25 j 06:07	5°♌03'17	9.11821 AU
direct	-7792 Jun 03 j 08:45	1°♌48'53	
evening set	-7792 Sep 11 j 16:09	8°♌47'06	
conjunction	-7792 Sep 27 j 23:53	10°♌42'00	2°23'34
minimum elong	-7792 Sep 27 j 23:55	10°♌42'00	2°24'00
max. Earth dist.	-7792 Sep 27 j 02:00	10°♌35'31	11.06013 AU
morning rise	-7792 Oct 14 j 08:37	12°♌37'19	
	-7792 Nov 04 j 18:59	15°♌	
retrograde	-7791 Jan 24 j 14:09	19°♌45'06	
opposition	-7791 Apr 05 j 14:33	16°♌26'05	2°50'32
min. Earth dist.	-7791 Apr 06 j 09:46	16°♌22'33	8.99927 AU
	-7791 Apr 25 j 17:02	15°℞♌	
direct	-7791 Jun 14 j 22:58	13°♌07'45	
	-7791 Aug 02 j 03:14	15°♌	
evening set	-7791 Sep 23 j 00:28	20°♌11'14	
max. Earth dist.	-7791 Oct 08 j 11:48	22°♌01'37	10.92998 AU
conjunction	-7791 Oct 09 j 10:03	22°♌08'17	2°13'59

Attention, astronomical year style is used: The year -7791 in astronomical counting style is the year 7792 BCE in historical counting style.

minimum elong	-7791 Oct 09 j 10:06	22°♌08'18	2°14'21
morning rise	-7791 Oct 25 j 21:41	24°♌06'04	
	-7791 Dec 26 j 01:48	0°♍	
retrograde	-7790 Feb 06 j 04:49	1°♍24'31	
	-7790 Mar 21 j 08:22	30°℞♌	
opposition	-7790 Apr 18 j 01:49	28°♌03'48	2°35'38
min. Earth dist.	-7790 Apr 18 j 20:49	28°♌00'15	8.85775 AU
direct	-7790 Jun 26 j 18:57	24°♌44'50	
	-7790 Sep 18 j 01:18	0°♍	
evening set	-7790 Oct 04 j 16:38	1°♍55'08	
max. Earth dist.	-7790 Oct 20 j 06:59	3°♍48'13	10.77958 AU
conjunction	-7790 Oct 21 j 05:10	3°♍54'58	1°58'35
minimum elong	-7790 Oct 21 j 05:13	3°♍54'59	1°58'52
morning rise	-7790 Nov 06 j 20:55	5°♍55'51	
retrograde	-7789 Feb 19 j 04:37	13°♍26'23	
opposition	-7789 Apr 30 j 21:04	10°♍03'48	2°13'33
min. Earth dist.	-7789 May 01 j 15:16	10°♍00'21	8.69849 AU
direct	-7789 Jul 08 j 21:12	6°♍43'59	
evening set	-7789 Oct 16 j 18:28	14°♍02'39	
conjunction	-7789 Nov 02 j 11:05	16°♍05'48	1°37'28
minimum elong	-7789 Nov 02 j 11:08	16°♍05'49	1°37'38
max. Earth dist.	-7789 Nov 01 j 15:04	15°♍59'36	10.61466 AU
morning rise	-7789 Nov 19 j 07:46	18°♍10'17	
retrograde	-7788 Mar 03 j 15:45	25°♍54'05	
opposition	-7788 May 13 j 01:26	22°♍29'30	1°44'27
min. Earth dist.	-7788 May 13 j 17:14	22°♍26'27	8.52850 AU
direct	-7788 Jul 20 j 09:24	19°♍08'39	
evening set	-7788 Oct 28 j 07:49	26°♍36'56	
conjunction	-7788 Nov 14 j 05:24	28°♍43'51	1°11'01
minimum elong	-7788 Nov 14 j 05:27	28°♍43'52	1°11'05
max. Earth dist.	-7788 Nov 13 j 13:19	28°♍38'46	10.44298 AU
	-7788 Nov 24 j 07:25	0°♎	
morning rise	-7788 Dec 01 j 07:38	0°♎52'19	
retrograde	-7787 Mar 17 j 15:48	8°♎49'59	
opposition	-7787 May 26 j 15:19	5°♎23'21	1°08'59
min. Earth dist.	-7787 May 27 j 03:03	5°♎21'03	8.35630 AU
direct	-7787 Aug 02 j 06:46	2°♎01'19	
evening set	-7787 Nov 10 j 10:45	9°♎40'12	
conjunction	-7787 Nov 27 j 13:44	11°♎51'05	0°40'03
minimum elong	-7787 Nov 27 j 13:46	11°♎51'06	0°40'00
max. Earth dist.	-7787 Nov 27 j 02:07	11°♎47'22	10.27339 AU
morning rise	-7787 Dec 14 j 21:53	14°♎03'44	
retrograde	-7786 Apr 01 j 04:19	22°♎15'07	
opposition	-7786 Jun 09 j 14:26	18°♎46'32	0°28'22
min. Earth dist.	-7786 Jun 09 j 21:36	18°♎45'06	8.19115 AU
direct	-7786 Aug 15 j 12:30	15°♎23'09	
evening set	-7786 Nov 24 j 04:19	23°♎13'19	
conjunction	-7786 Dec 11 j 12:46	25°♎28'10	0°05'54
minimum elong	-7786 Dec 11 j 12:46	25°♎28'10	0°05'44
behind sun begin	-7786 Dec 11 j 05:52	25°♎25'56	
behind sun end	-7786 Dec 11 j 19:41	25°♎30'23	
max. Earth dist.	-7786 Dec 11 j 05:59	25°♎25'58	10.11530 AU
morning rise	-7786 Dec 29 j 02:47	27°♎44'53	
	-7785 Jan 16 j 07:21	0°♏	
desc. node	-7785 Feb 12 j 15:16	2°♏57'12	
retrograde	-7785 Apr 16 j 01:54	6°♏09'00	
opposition	-7785 Jun 23 j 22:27	2°♏38'42	-0°15'28
min. Earth dist.	-7785 Jun 24 j 00:53	2°♏38'12	8.04262 AU
	-7785 Jul 31 j 07:59	30°℞♎	
direct	-7785 Aug 29 j 06:21	29°♎13'52	
	-7785 Sep 26 j 19:32	0°♏	
evening set	-7785 Dec 08 j 12:44	7°♏15'26	
conjunction	-7785 Dec 26 j 02:20	9°♏33'54	-0°29'44
minimum elong	-7785 Dec 26 j 02:18	9°♏33'53	0°30'01
max. Earth dist.	-7785 Dec 26 j 01:01	9°♏33'28	9.97822 AU
morning rise	-7784 Jan 12 j 21:37	11°♏54'15	
	-7784 Feb 06 j 22:29	15°♏	
retrograde	-7784 Apr 30 j 07:13	20°♏29'09	
opposition	-7784 Jul 07 j 14:03	16°♏57'28	-0°59'51
min. Earth dist.	-7784 Jul 07 j 11:55	16°♏57'54	7.92008 AU
	-7784 Aug 01 j 22:18	15°℞♏	
direct	-7784 Sep 11 j 11:18	13°♏31'12	
	-7784 Oct 21 j 03:08	15°♏	
evening set	-7784 Dec 22 j 11:30	21°♏43'27	
conjunction	-7783 Jan 09 j 05:42	24°♏04'57	-1°04'21
minimum elong	-7783 Jan 09 j 05:39	24°♏04'56	1°04'44
max. Earth dist.	-7783 Jan 09 j 10:37	24°♏06'36	9.87120 AU
morning rise	-7783 Jan 27 j 05:15	26°♏28'12	
	-7783 Feb 24 j 16:43	0°♐	
retrograde	-7783 May 15 j 17:40	5°♐10'47	
opposition	-7783 Jul 22 j 11:09	1°♐38'11	-1°41'33
min. Earth dist.	-7783 Jul 22 j 04:35	1°♐39'33	7.83186 AU
	-7783 Aug 11 j 22:31	30°℞♏	
direct	-7783 Sep 26 j 01:53	28°♏10'31	
	-7783 Nov 09 j 03:18	0°♐	
evening set	-7782 Jan 06 j 22:32	6°♐31'52	
conjunction	-7782 Jan 24 j 20:30	8°♐55'33	-1°35'24
minimum elong	-7782 Jan 24 j 20:26	8°♐55'31	1°35'52
max. Earth dist.	-7782 Jan 25 j 07:43	8°♐59'19	9.80173 AU
morning rise	-7782 Feb 11 j 22:59	11°♐20'39	
retrograde	-7782 May 31 j 05:40	20°♐06'52	
opposition	-7782 Aug 06 j 11:19	16°♐33'53	-2°17'08
min. Earth dist.	-7782 Aug 06 j 00:27	16°♐36'11	7.78409 AU
direct	-7782 Oct 10 j 23:45	13°♐05'01	
evening set	-7781 Jan 22 j 18:16	21°♐32'53	
conjunction	-7781 Feb 09 j 18:53	23°♐57'39	-2°00'22
minimum elong	-7781 Feb 09 j 18:49	23°♐57'38	2°00'53
max. Earth dist.	-7781 Feb 10 j 11:52	24°♐03'23	9.77487 AU
morning rise	-7781 Feb 27 j 22:49	26°♐23'26	
	-7781 Mar 28 j 20:50	0°♑	
retrograde	-7781 Jun 15 j 15:51	5°♑08'40	
opposition	-7781 Aug 21 j 11:33	1°♑35'52	-2°43'32
min. Earth dist.	-7781 Aug 20 j 20:53	1°♑38'58	7.78017 AU
	-7781 Sep 10 j 03:27	30°℞♐	
direct	-7781 Oct 26 j 03:00	28°♐06'02	
	-7781 Dec 10 j 07:08	0°♑	
evening set	-7780 Feb 07 j 18:08	6°♑37'02	
conjunction	-7780 Feb 25 j 20:23	9°♑01'48	-2°17'12
minimum elong	-7780 Feb 25 j 20:21	9°♑01'47	2°17'43
max. Earth dist.	-7780 Feb 26 j 18:07	9°♑09'06	9.79273 AU
morning rise	-7780 Mar 15 j 00:31	11°♑27'06	
retrograde	-7780 Jun 29 j 20:26	20°♑06'38	
opposition	-7780 Sep 04 j 08:54	16°♑34'33	-2°58'38
min. Earth dist.	-7780 Sep 03 j 15:13	16°♑38'17	7.82031 AU
direct	-7780 Nov 09 j 08:08	13°♑04'05	
evening set	-7779 Feb 22 j 17:01	21°♑34'26	
conjunction	-7779 Mar 12 j 19:58	23°♑58'09	-2°24'41
minimum elong	-7779 Mar 12 j 19:58	23°♑58'09	2°25'11
max. Earth dist.	-7779 Mar 13 j 20:54	24°♑06'27	9.85386 AU
morning rise	-7779 Mar 30 j 23:15	26°♑21'55	
	-7779 Apr 29 j 13:06	0°♒	
retrograde	-7779 Jul 14 j 16:09	4°♒51'35	
min. Earth dist.	-7779 Sep 18 j 05:22	1°♒24'48	7.90123 AU
opposition	-7779 Sep 19 j 00:42	1°♒20'44	-3°01'35

Attention, astronomical year style is used: The year -7779 in astronomical counting style is the year 7780 BCE in historical counting style.

	-7779 Oct 05 j 11:36	30°℞♑	
direct	-7779 Nov 24 j 11:54	27°♑50'02	
	-7778 Jan 12 j 18:15	0°♒	
evening set	-7778 Mar 10 j 10:10	6°♒16'01	
conjunction	-7778 Mar 28 j 12:53	8°♒37'49	-2°22'37
minimum elong	-7778 Mar 28 j 12:54	8°♒37'50	2°23'04
max. Earth dist.	-7778 Mar 29 j 15:07	8°♒46'26	9.95350 AU
morning rise	-7778 Apr 15 j 14:25	10°♒59'11	
	-7778 May 19 j 02:24	15°♒	
retrograde	-7778 Jul 29 j 00:36	19°♒15'52	
opposition	-7778 Oct 03 j 08:46	15°♒46'42	-2°52'50
min. Earth dist.	-7778 Oct 02 j 13:22	15°♒50'44	8.01702 AU
	-7778 Oct 12 j 19:08	15°℞♒	
direct	-7778 Dec 09 j 11:06	12°♒16'11	
	-7777 Feb 03 j 21:22	15°♒	
evening set	-7777 Mar 25 j 17:31	20°♒34'38	
conjunction	-7777 Apr 12 j 19:09	22°♒53'51	-2°11'46
minimum elong	-7777 Apr 12 j 19:13	22°♒53'52	2°12'07
max. Earth dist.	-7777 Apr 13 j 20:43	23°♒02'07	10.08460 AU
morning rise	-7777 Apr 30 j 18:20	25°♒12'12	
	-7777 Jun 11 j 16:11	0°♓	
retrograde	-7777 Aug 11 j 20:36	3°♓14'06	
	-7777 Oct 14 j 16:00	30°℞♒	
opposition	-7777 Oct 17 j 07:43	29°♒46'54	-2°33'55
min. Earth dist.	-7777 Oct 16 j 13:32	29°♒50'39	8.15990 AU
direct	-7777 Dec 24 j 02:49	26°♒16'59	
	-7776 Feb 29 j 18:05	0°♓	
evening set	-7776 Apr 08 j 12:22	4°♓25'36	
conjunction	-7776 Apr 26 j 12:10	6°♓41'46	-1°53'31
minimum elong	-7776 Apr 26 j 12:14	6°♓41'47	1°53'46
max. Earth dist.	-7776 Apr 27 j 11:17	6°♓49'06	10.23846 AU
morning rise	-7776 May 14 j 08:29	8°♓56'45	
retrograde	-7776 Aug 24 j 04:11	16°♓43'17	
opposition	-7776 Oct 29 j 20:50	13°♓18'14	-2°07'01
min. Earth dist.	-7776 Oct 29 j 04:49	13°♓21'29	8.32084 AU
direct	-7775 Jan 06 j 10:18	9°♓49'15	
evening set	-7775 Apr 22 j 17:37	17°♓46'44	
conjunction	-7775 May 10 j 14:47	19°♓59'35	-1°29'39
minimum elong	-7775 May 10 j 14:51	19°♓59'36	1°29'47
max. Earth dist.	-7775 May 11 j 10:02	20°♓05'35	10.40565 AU
morning rise	-7775 May 28 j 07:44	22°♓11'02	
retrograde	-7775 Sep 05 j 22:44	29°♓42'43	
min. Earth dist.	-7775 Nov 11 j 10:20	26°♓22'33	8.49063 AU
opposition	-7775 Nov 12 j 00:04	26°♓19'49	-1°34'31
direct	-7774 Jan 20 j 08:19	22°♓52'04	
	-7774 May 01 j 00:58	0°♈	
evening set	-7774 May 06 j 08:49	0°♈37'59	
conjunction	-7774 May 24 j 02:44	2°♈47'24	-1°02'02
minimum elong	-7774 May 24 j 02:46	2°♈47'25	1°02'04
max. Earth dist.	-7774 May 24 j 17:49	2°♈52'02	10.57704 AU
morning rise	-7774 Jun 10 j 15:48	4°♈55'18	
retrograde	-7774 Sep 18 j 06:44	12°♈13'28	
opposition	-7774 Nov 24 j 18:07	8°♈52'37	-0°58'43
min. Earth dist.	-7774 Nov 24 j 06:54	8°♈54'49	8.66050 AU
direct	-7773 Feb 02 j 19:56	5°♈26'17	
evening set	-7773 May 19 j 10:18	13°♈00'50	
conjunction	-7773 Jun 06 j 00:28	15°♈06'56	-0°32'24
minimum elong	-7773 Jun 06 j 00:30	15°♈06'56	0°32'19
max. Earth dist.	-7773 Jun 06 j 11:47	15°♈10'19	10.74412 AU
morning rise	-7773 Jun 23 j 09:17	17°♈11'24	
retrograde	-7773 Sep 30 j 07:22	24°♈17'49	

opposition	-7773 Dec 07 j 03:48	20°♈58'50	-0°21'37
min. Earth dist.	-7773 Dec 06 j 20:00	21°♈00'20	8.82243 AU
direct	-7772 Feb 15 j 19:23	17°♈33'57	
evening set	-7772 May 30 j 23:40	24°♈58'01	
conjunction	-7772 Jun 17 j 09:34	27°♈00'56	-0°02'17
minimum elong	-7772 Jun 17 j 09:34	27°♈00'56	0°02'06
behind sun begin	-7772 Jun 17 j 02:26	26°♈58'51	
behind sun end	-7772 Jun 17 j 16:41	27°♈03'01	
max. Earth dist.	-7772 Jun 17 j 16:28	27°♈02'58	10.89928 AU
morning rise	-7772 Jul 04 j 13:52	29°♈02'16	
	-7772 Jul 12 j 23:56	0°♉	
asc. node	-7772 Jul 15 j 14:01	0°♉17'22	
retrograde	-7772 Oct 10 j 22:13	5°♉58'55	
opposition	-7772 Dec 18 j 06:14	2°♉41'32	0°15'05
min. Earth dist.	-7772 Dec 18 j 03:01	2°♉42'09	8.96941 AU
	-7771 Jan 28 j 13:27	30°℞♈	
direct	-7771 Feb 27 j 10:19	29°♈18'05	
	-7771 Mar 29 j 04:16	0°♉	
evening set	-7771 Jun 12 j 02:09	6°♉32'52	
conjunction	-7771 Jun 29 j 07:22	8°♉32'53	0°27'14
minimum elong	-7771 Jun 29 j 07:20	8°♉32'53	0°27'30
max. Earth dist.	-7771 Jun 29 j 08:40	8°♉33'16	11.03609 AU
morning rise	-7771 Jul 16 j 07:19	10°♉31'24	
	-7771 Aug 29 j 12:25	15°♉	
retrograde	-7771 Oct 22 j 07:37	17°♉20'31	
	-7771 Dec 17 j 13:09	15°℞♉	
opposition	-7771 Dec 30 j 02:57	14°♉04'25	0°50'05
min. Earth dist.	-7771 Dec 30 j 04:02	14°♉04'13	9.09545 AU
direct	-7770 Mar 11 j 17:37	10°♉42'17	
	-7770 May 28 j 11:30	15°♉	
evening set	-7770 Jun 23 j 19:06	17°♉49'13	
conjunction	-7770 Jul 10 j 19:38	19°♉46'43	0°54'55
minimum elong	-7770 Jul 10 j 19:36	19°♉46'42	0°55'15
max. Earth dist.	-7770 Jul 10 j 15:27	19°♉45'30	11.14911 AU
morning rise	-7770 Jul 27 j 15:25	21°♉42'51	
retrograde	-7770 Nov 02 j 12:04	28°♉26'41	
opposition	-7769 Jan 10 j 19:05	25°♉11'31	1°22'20
min. Earth dist.	-7769 Jan 10 j 23:45	25°♉10'39	9.19545 AU
direct	-7769 Mar 23 j 16:50	21°♉50'35	
evening set	-7769 Jul 05 j 04:30	28°♉51'18	
	-7769 Jul 15 j 06:10	0°♊	
conjunction	-7769 Jul 22 j 00:43	0°♊46'44	1°20'02
minimum elong	-7769 Jul 22 j 00:40	0°♊46'43	1°20'28
max. Earth dist.	-7769 Jul 21 j 16:29	0°♊44'22	11.23409 AU
morning rise	-7769 Aug 07 j 16:31	2°♊40'58	
retrograde	-7769 Nov 13 j 16:19	9°♊21'45	
opposition	-7768 Jan 22 j 08:08	6°♊07'10	1°50'59
min. Earth dist.	-7768 Jan 22 j 16:15	6°♊05'41	9.26601 AU
direct	-7768 Apr 03 j 10:57	2°♊47'15	
evening set	-7768 Jul 15 j 08:13	9°♊43'26	
conjunction	-7768 Aug 01 j 00:26	11°♊37'17	1°41'57
minimum elong	-7768 Aug 01 j 00:23	11°♊37'16	1°42'26
max. Earth dist.	-7768 Jul 31 j 12:32	11°♊33'52	11.28865 AU
morning rise	-7768 Aug 17 j 12:43	13°♊30'08	
retrograde	-7768 Nov 23 j 19:19	20°♊09'57	
opposition	-7767 Feb 01 j 20:03	16°♊55'35	2°15'24
min. Earth dist.	-7767 Feb 02 j 08:12	16°♊53'23	9.30556 AU
direct	-7767 Apr 14 j 22:22	13°♊36'30	
evening set	-7767 Jul 26 j 07:52	20°♊29'41	
conjunction	-7767 Aug 11 j 20:26	22°♊22'28	2°00'05
minimum elong	-7767 Aug 11 j 20:23	22°♊22'27	2°00'36

Attention, astronomical year style is used: The year -7767 in astronomical counting style is the year 7768 BCE in historical counting style.

max. Earth dist.	-7767 Aug 11 j 04:14	22°♊17'50	11.31192 AU
morning rise	-7767 Aug 28 j 06:03	24°♊14'29	
	-7767 Nov 01 j 00:23	0°♋	
retrograde	-7767 Dec 04 j 22:09	0°♋55'23	
	-7766 Jan 08 j 15:10	30°℞♊	
opposition	-7766 Feb 13 j 07:59	27°♊40'50	2°34'58
min. Earth dist.	-7766 Feb 13 j 23:29	27°♊38'01	9.31356 AU
direct	-7766 Apr 26 j 08:59	24°♊22'16	
	-7766 Jul 26 j 00:02	0°♋	
evening set	-7766 Aug 06 j 05:09	1°♋14'03	
conjunction	-7766 Aug 22 j 14:56	3°♋06'19	2°13'58
minimum elong	-7766 Aug 22 j 14:54	3°♋06'18	2°14'29
max. Earth dist.	-7766 Aug 21 j 19:42	3°♋00'47	11.30373 AU
morning rise	-7766 Sep 07 j 22:42	4°♋58'03	
retrograde	-7766 Dec 16 j 04:50	11°♋41'55	
opposition	-7765 Feb 24 j 21:02	8°♋26'47	2°49'11
min. Earth dist.	-7765 Feb 25 j 14:24	8°♋23'38	9.29002 AU
direct	-7765 May 07 j 18:15	5°♋08'32	
evening set	-7765 Aug 17 j 01:41	12°♋00'25	
conjunction	-7765 Sep 02 j 09:43	13°♋52'43	2°23'09
minimum elong	-7765 Sep 02 j 09:42	13°♋52'43	2°23'40
max. Earth dist.	-7765 Sep 01 j 13:17	13°♋46'49	11.26444 AU
morning rise	-7765 Sep 18 j 16:22	15°♋44'46	
retrograde	-7765 Dec 27 j 16:00	22°♋33'29	
opposition	-7764 Mar 07 j 12:51	19°♋17'25	2°57'33
min. Earth dist.	-7764 Mar 08 j 07:27	19°♋14'02	9.23563 AU
direct	-7764 May 18 j 02:23	15°♋59'15	
evening set	-7764 Aug 26 j 23:20	22°♋52'44	
max. Earth dist.	-7764 Sep 11 j 08:23	24°♋39'16	11.19527 AU
conjunction	-7764 Sep 12 j 06:26	24°♋45'41	2°27'18
minimum elong	-7764 Sep 12 j 06:26	24°♋45'41	2°27'48
morning rise	-7764 Sep 28 j 13:06	26°♋38'39	
	-7764 Oct 30 j 05:56	0°♌	
retrograde	-7763 Jan 07 j 09:24	3°♌33'58	
opposition	-7763 Mar 19 j 08:49	0°♌16'42	2°59'39
min. Earth dist.	-7763 Mar 20 j 04:48	0°♌13'03	9.15218 AU
	-7763 Mar 23 j 04:17	30°℞♋	
direct	-7763 May 29 j 12:06	26°♋58'22	
	-7763 Jul 31 j 11:56	0°♌	
evening set	-7763 Sep 07 j 00:00	3°♌54'59	
max. Earth dist.	-7763 Sep 22 j 07:36	5°♌42'16	11.09857 AU
conjunction	-7763 Sep 23 j 07:11	5°♌49'12	2°26'03
minimum elong	-7763 Sep 23 j 07:12	5°♌49'12	2°26'31
morning rise	-7763 Oct 09 j 15:09	7°♌43'43	
retrograde	-7762 Jan 19 j 08:04	14°♌47'23	
opposition	-7762 Mar 31 j 10:04	11°♌28'38	2°55'05
min. Earth dist.	-7762 Apr 01 j 06:52	11°♌24'48	9.04243 AU
direct	-7762 Jun 10 j 00:45	8°♌09'55	
	-7762 Sep 16 j 14:49	15°♌	
evening set	-7762 Sep 18 j 05:19	15°♌11'11	
conjunction	-7762 Oct 04 j 13:54	17°♌07'17	2°19'09
minimum elong	-7762 Oct 04 j 13:56	17°♌07'18	2°19'33
max. Earth dist.	-7762 Oct 03 j 14:50	17°♌00'25	10.97738 AU
morning rise	-7762 Oct 21 j 00:15	19°♌04'00	
retrograde	-7761 Jan 31 j 17:29	26°♌17'40	
opposition	-7761 Apr 12 j 17:43	22°♌57'11	2°43'30
min. Earth dist.	-7761 Apr 13 j 13:36	22°♌53'29	8.90984 AU
direct	-7761 Jun 21 j 19:43	19°♌37'56	
evening set	-7761 Sep 29 j 17:24	26°♌45'18	
max. Earth dist.	-7761 Oct 15 j 07:08	28°♌37'26	10.83560 AU
conjunction	-7761 Oct 16 j 04:36	28°♌43'55	2°06'27
minimum elong	-7761 Oct 16 j 04:39	28°♌43'56	2°06'46
	-7761 Oct 26 j 16:42	0°♍	
morning rise	-7761 Nov 01 j 18:16	0°♍43'25	
retrograde	-7760 Feb 13 j 13:28	8°♍08'31	
opposition	-7760 Apr 24 j 08:58	4°♍46'12	2°24'44
min. Earth dist.	-7760 Apr 25 j 02:48	4°♍42'51	8.75900 AU
direct	-7760 Jul 02 j 18:22	1°♍26'15	
evening set	-7760 Oct 10 j 14:19	8°♍41'10	
max. Earth dist.	-7760 Oct 26 j 09:18	10°♍36'46	10.67848 AU
conjunction	-7760 Oct 27 j 05:03	10°♍42'50	1°47'57
minimum elong	-7760 Oct 27 j 05:06	10°♍42'51	1°48'10
morning rise	-7760 Nov 12 j 23:14	12°♍45'41	
retrograde	-7759 Feb 25 j 19:46	20°♍23'27	
opposition	-7759 May 07 j 09:00	16°♍59'13	1°58'49
min. Earth dist.	-7759 May 08 j 00:22	16°♍56'16	8.59587 AU
direct	-7759 Jul 15 j 01:04	13°♍38'22	
evening set	-7759 Oct 22 j 21:56	21°♍02'11	
conjunction	-7759 Nov 08 j 17:04	23°♍07'23	1°23'54
minimum elong	-7759 Nov 08 j 17:08	23°♍07'24	1°24'01
max. Earth dist.	-7759 Nov 07 j 23:25	23°♍01'52	10.51246 AU
morning rise	-7759 Nov 25 j 16:43	25°♍14'03	
	-7758 Jan 08 j 00:40	0°♎	
retrograde	-7758 Mar 11 j 14:05	3°♎05'18	
	-7758 May 16 j 06:47	30°℞♍	
opposition	-7758 May 20 j 18:18	29°♍39'08	1°26'11
min. Earth dist.	-7758 May 21 j 07:07	29°♍36'39	8.42754 AU
direct	-7758 Jul 27 j 16:59	26°♍17'16	
	-7758 Oct 02 j 07:06	0°♎	
evening set	-7758 Nov 04 j 18:15	3°♎51'09	
conjunction	-7758 Nov 21 j 18:32	6°♎00'12	0°54'54
minimum elong	-7758 Nov 21 j 18:34	6°♎00'13	0°54'54
max. Earth dist.	-7758 Nov 21 j 04:41	5°♎55'48	10.34499 AU
morning rise	-7758 Dec 09 j 00:02	8°♎10'57	
retrograde	-7757 Mar 25 j 19:53	16°♎15'55	
opposition	-7757 Jun 03 j 12:54	12°♎47'55	0°47'45
min. Earth dist.	-7757 Jun 03 j 22:10	12°♎46'06	8.26223 AU
direct	-7757 Aug 09 j 18:38	9°♎24'55	
evening set	-7757 Nov 18 j 04:34	17°♎09'46	
conjunction	-7757 Dec 05 j 10:23	19°♎22'46	0°22'01
minimum elong	-7757 Dec 05 j 10:24	19°♎22'46	0°21'54
max. Earth dist.	-7757 Dec 05 j 01:56	19°♎20'02	10.18471 AU
morning rise	-7757 Dec 22 j 21:45	21°♎37'36	
retrograde	-7756 Apr 08 j 11:58	29°♎55'50	
opposition	-7756 Jun 16 j 16:51	26°♎26'12	0°05'07
min. Earth dist.	-7756 Jun 16 j 21:22	26°♎25'17	8.10910 AU
desc. node	-7756 Jul 30 j 07:59	23°♎31'11	
direct	-7756 Aug 22 j 08:14	23°♎01'59	
	-7756 Nov 23 j 14:52	0°♏	
evening set	-7756 Dec 01 j 05:46	0°♏58'09	
conjunction	-7756 Dec 18 j 17:04	3°♏14'56	-0°13'13
minimum elong	-7756 Dec 18 j 17:03	3°♏14'56	0°13'27
behind sun begin	-7756 Dec 18 j 13:01	3°♏13'37	
behind sun end	-7756 Dec 18 j 21:06	3°♏16'15	
max. Earth dist.	-7756 Dec 18 j 14:58	3°♏14'16	10.04092 AU
morning rise	-7755 Jan 05 j 09:54	5°♏33'37	
retrograde	-7755 Apr 23 j 14:01	14°♏03'39	
opposition	-7755 Jul 01 j 05:03	10°♏32'38	-0°39'23
min. Earth dist.	-7755 Jul 01 j 04:12	10°♏32'49	7.97753 AU
direct	-7755 Sep 05 j 07:45	7°♏07'13	
	-7755 Dec 14 j 01:47	15°♏	
evening set	-7755 Dec 15 j 22:05	15°♏14'23	

Attention, astronomical year style is used: The year -7754 in astronomical counting style is the year 7755 BCE in historical counting style.

conjunction	-7754 Jan 02 j 14:19	17°♏34'30	-0°48'34	
minimum elong	-7754 Jan 02 j 14:17	17°♏34'30	0°48'54	
max. Earth dist.	-7754 Jan 02 j 18:35	17°♏35'55	9.92289 AU	
morning rise	-7754 Jan 20 j 11:50	19°♏56'25		
retrograde	-7754 May 08 j 23:16	28°♏35'37		
opposition	-7754 Jul 15 j 23:44	25°♏03'39	-1°22'44	
min. Earth dist.	-7754 Jul 15 j 17:39	25°♏04'55	7.87635 AU	
direct	-7754 Sep 19 j 16:39	21°♏37'01		
evening set	-7754 Dec 31 j 03:51	29°♏54'04		
	-7754 Dec 31 j 21:55	0°♐		
conjunction	-7753 Jan 18 j 00:10	2°♐16'44	-1°21'36	
minimum elong	-7753 Jan 18 j 00:06	2°♐16'42	1°22'01	
max. Earth dist.	-7753 Jan 18 j 10:32	2°♐20'12	9.83895 AU	
morning rise	-7753 Feb 05 j 01:10	4°♐40'57		
retrograde	-7753 May 24 j 12:16	13°♐25'41		
opposition	-7753 Jul 30 j 22:53	9°♐53'15	-2°01'31	
min. Earth dist.	-7753 Jul 30 j 12:18	9°♐55'28	7.81281 AU	
direct	-7753 Oct 04 j 10:11	6°♐25'28		
evening set	-7752 Jan 15 j 19:55	14°♐50'11		
conjunction	-7752 Feb 02 j 19:17	17°♐14'23	-1°49'39	
minimum elong	-7752 Feb 02 j 19:13	17°♐14'22	1°50'08	
max. Earth dist.	-7752 Feb 03 j 11:17	17°♐19'46	9.79535 AU	
morning rise	-7752 Feb 20 j 22:29	19°♐39'49		
retrograde	-7752 Jun 08 j 00:58	28°♐25'38		
opposition	-7752 Aug 13 j 23:30	24°♐53'13	-2°32'27	
min. Earth dist.	-7752 Aug 13 j 09:24	24°♐56'10	7.79147 AU	
direct	-7752 Oct 18 j 11:30	21°♐24'24		
evening set	-7751 Jan 30 j 18:26	29°♐53'45		
	-7751 Jan 31 j 13:25	0°♑		
conjunction	-7751 Feb 17 j 19:51	2°♑18'24	-2°10'26	
minimum elong	-7751 Feb 17 j 19:47	2°♑18'23	2°10'57	
max. Earth dist.	-7751 Feb 18 j 16:07	2°♑25'13	9.79505 AU	
morning rise	-7751 Mar 07 j 23:54	4°♑43'51		
retrograde	-7751 Jun 23 j 08:37	13°♑25'56		
opposition	-7751 Aug 28 j 22:22	9°♑54'04	-2°52'56	
min. Earth dist.	-7751 Aug 28 j 06:05	9°♑57'30	7.81306 AU	
direct	-7751 Nov 02 j 16:42	6°♑24'28		
evening set	-7750 Feb 15 j 18:18	14°♑54'53		
conjunction	-7750 Mar 05 j 20:45	17°♑18'57	-2°22'19	
minimum elong	-7750 Mar 05 j 20:44	17°♑18'57	2°22'49	
max. Earth dist.	-7750 Mar 06 j 19:27	17°♑26'32	9.83693 AU	
morning rise	-7750 Mar 24 j 00:30	19°♑43'19		
retrograde	-7750 Jul 08 j 07:51	28°♑17'24		
opposition	-7750 Sep 12 j 16:55	24°♑46'35	-3°01'31	
min. Earth dist.	-7750 Sep 11 j 23:33	24°♑50'14	7.87458 AU	
direct	-7750 Nov 17 j 21:52	21°♑16'32		
evening set	-7749 Mar 03 j 14:20	29°♑44'27		
	-7749 Mar 05 j 14:19	0°♒		
conjunction	-7749 Mar 21 j 16:59	2°♒07'03	-2°24'37	
minimum elong	-7749 Mar 21 j 17:00	2°♒07'03	2°25'05	
max. Earth dist.	-7749 Mar 22 j 16:42	2°♒14'52	9.91682 AU	
morning rise	-7749 Apr 08 j 19:29	4°♒29'27		
retrograde	-7749 Jul 22 j 20:56	12°♒52'13		
min. Earth dist.	-7749 Sep 26 j 10:48	9°♒26'37	7.97122 AU	
opposition	-7749 Sep 27 j 04:49	9°♒22'52	-2°58'03	
direct	-7749 Dec 02 j 23:46	5°♒52'47		
evening set	-7748 Mar 18 j 02:43	14°♒14'54		
	-7748 Mar 23 j 23:19	15°♒		
conjunction	-7748 Apr 05 j 04:50	16°♒35'19	-2°17'41	
minimum elong	-7748 Apr 05 j 04:53	16°♒35'20	2°18'05	
max. Earth dist.	-7748 Apr 06 j 04:33	16°♒43'02	10.02957 AU	
morning rise	-7748 Apr 23 j 05:21	18°♒55'05		
retrograde	-7748 Aug 04 j 22:40	27°♒04'07		
opposition	-7748 Oct 10 j 08:15	23°♒36'30	-2°43'37	
min. Earth dist.	-7748 Oct 09 j 14:20	23°♒40'11	8.09728 AU	
direct	-7748 Dec 16 j 19:12	20°♒06'43		
evening set	-7747 Apr 02 j 04:08	28°♒20'19		
	-7747 Apr 15 j 06:18	0°♓		
conjunction	-7747 Apr 20 j 04:58	0°♓38'00	-2°02'38	
minimum elong	-7747 Apr 20 j 05:01	0°♓38'01	2°02'56	
max. Earth dist.	-7747 Apr 21 j 03:33	0°♓45'14	10.16839 AU	
morning rise	-7747 May 08 j 02:47	2°♓54'38		
retrograde	-7747 Aug 18 j 13:31	10°♓48'43		
min. Earth dist.	-7747 Oct 23 j 09:37	7°♓26'25	8.24521 AU	
opposition	-7747 Oct 24 j 02:25	7°♓22'59	-2°20'08	
direct	-7747 Dec 31 j 06:53	3°♓53'51		
evening set	-7746 Apr 16 j 16:24	11°♓57'03		
conjunction	-7746 May 04 j 15:03	14°♓11'35	-1°41'07	
minimum elong	-7746 May 04 j 15:07	14°♓11'37	1°41'19	
max. Earth dist.	-7746 May 05 j 11:28	14°♓18'01	10.32483 AU	
morning rise	-7746 May 22 j 09:36	16°♓24'47		
retrograde	-7746 Aug 31 j 14:53	24°♓03'52		
opposition	-7746 Nov 06 j 10:51	20°♓40'06	-1°49'54	
min. Earth dist.	-7746 Nov 05 j 20:24	20°♓43'00	8.40640 AU	
direct	-7745 Jan 14 j 09:45	17°♓11'53		
evening set	-7745 Apr 30 j 14:41	25°♓03'44		
conjunction	-7745 May 18 j 10:24	27°♓14'56	-1°14'59	
minimum elong	-7745 May 18 j 10:28	27°♓14'57	1°15'04	
max. Earth dist.	-7745 May 19 j 03:22	27°♓20'10	10.48996 AU	
morning rise	-7745 Jun 05 j 01:16	29°♓24'37		
	-7745 Jun 09 j 23:17	0°♈		
retrograde	-7745 Sep 13 j 04:25	6°♈49'33		
opposition	-7745 Nov 19 j 09:37	3°♈27'43	-1°15'19	
min. Earth dist.	-7745 Nov 18 j 22:36	3°♈29'53	8.57215 AU	
direct	-7744 Jan 28 j 02:14	0°♈00'34		
evening set	-7744 May 12 j 23:07	7°♈41'01		
conjunction	-7744 May 30 j 15:11	9°♈48'51	-0°46'03	
minimum elong	-7744 May 30 j 15:13	9°♈48'51	0°46'00	
max. Earth dist.	-7744 May 31 j 03:09	9°♈52'28	10.65514 AU	
morning rise	-7744 Jun 17 j 02:07	11°♈55'05		
retrograde	-7744 Sep 24 j 08:13	19°♈07'23		
opposition	-7744 Nov 30 j 23:33	15°♈47'19	-0°38'33	
min. Earth dist.	-7744 Nov 30 j 15:51	15°♈48'49	8.73415 AU	
direct	-7743 Feb 09 j 08:01	12°♈21'25		
evening set	-7743 May 25 j 18:31	19°♈50'59		
conjunction	-7743 Jun 12 j 06:25	21°♈55'33	-0°15'56	
minimum elong	-7743 Jun 12 j 06:25	21°♈55'33	0°15'47	
behind sun begin	-7743 Jun 12 j 05:19	21°♈55'14		
behind sun end	-7743 Jun 12 j 07:32	21°♈55'53		
max. Earth dist.	-7743 Jun 12 j 13:24	21°♈57'38	10.81251 AU	
morning rise	-7743 Jun 29 j 13:04	23°♈58'32		
	-7743 Sep 01 j 23:24	0°♉		
retrograde	-7743 Oct 06 j 01:51	1°♉00'09		
	-7743 Nov 09 j 20:11	30°℞♈		
opposition	-7743 Dec 13 j 05:36	27°♈41'38	-0°01'26	
min. Earth dist.	-7743 Dec 13 j 00:51	27°♈42'33	8.88515 AU	
asc. node	-7743 Dec 27 j 19:09	26°♈36'04		
direct	-7742 Feb 22 j 05:19	24°♈17'02		
	-7742 May 23 j 18:01	0°♉		
evening set	-7742 Jun 07 j 02:06	1°♉36'44		
conjunction	-7742 Jun 24 j 09:37	3°♉38'16	0°14'04	
minimum elong	-7742 Jun 24 j 09:36	3°♉38'16	0°14'18	

Attention, astronomical year style is used: The year -7742 in astronomical counting style is the year 7743 BCE in historical counting style.

behind sun begin	-7742 Jun 24 j 06:17	3°♉37'18	
behind sun end	-7742 Jun 24 j 12:55	3°♉39'14	
max. Earth dist.	-7742 Jun 24 j 12:34	3°♉39'08	10.95549 AU
morning rise	-7742 Jul 11 j 11:47	5°♉38'17	
retrograde	-7742 Oct 17 j 15:07	12°♉31'21	
opposition	-7742 Dec 25 j 05:07	9°♉14'08	0°34'33
min. Earth dist.	-7742 Dec 25 j 03:39	9°♉14'25	9.01917 AU
direct	-7741 Mar 06 j 16:27	5°♉50'50	
evening set	-7741 Jun 18 j 23:25	13°♉01'56	
	-7741 Jul 05 j 23:41	15°♉	
conjunction	-7741 Jul 06 j 02:25	15°♉00'48	0°42'41
minimum elong	-7741 Jul 06 j 02:23	15°♉00'47	0°43'00
max. Earth dist.	-7741 Jul 06 j 01:37	15°♉00'34	11.07869 AU
morning rise	-7741 Jul 23 j 00:08	16°♉58'12	
retrograde	-7741 Oct 28 j 22:37	23°♉44'52	
opposition	-7740 Jan 05 j 23:30	20°♉28'43	1°08'13
min. Earth dist.	-7740 Jan 06 j 02:13	20°♉28'13	9.13136 AU
direct	-7740 Mar 17 j 17:38	17°♉06'39	
evening set	-7740 Jun 29 j 12:31	24°♉10'41	
conjunction	-7740 Jul 16 j 10:49	26°♉07'14	1°09'05
minimum elong	-7740 Jul 16 j 10:47	26°♉07'13	1°09'29
max. Earth dist.	-7740 Jul 16 j 05:08	26°♉05'35	11.17790 AU
morning rise	-7740 Aug 02 j 04:27	28°♉02'29	
	-7740 Aug 20 j 02:55	0°♊	
retrograde	-7740 Nov 08 j 01:42	4°♊44'55	
opposition	-7739 Jan 16 j 14:06	1°♊29'33	1°38'38
min. Earth dist.	-7739 Jan 16 j 20:49	1°♊28'19	9.21803 AU
	-7739 Feb 06 j 14:22	30°℞♉	
direct	-7739 Mar 29 j 14:45	28°♉08'35	
	-7739 May 18 j 07:36	0°♊	
evening set	-7739 Jul 10 j 18:51	5°♊07'10	
conjunction	-7739 Jul 27 j 12:48	7°♊01'50	1°32'33
minimum elong	-7739 Jul 27 j 12:45	7°♊01'49	1°33'00
max. Earth dist.	-7739 Jul 27 j 02:37	6°♊58'55	11.25014 AU
morning rise	-7739 Aug 13 j 02:50	8°♊55'25	
retrograde	-7739 Nov 19 j 04:16	15°♊35'47	
opposition	-7738 Jan 28 j 02:32	12°♊20'50	2°05'03
min. Earth dist.	-7738 Jan 28 j 11:55	12°♊19'07	9.27650 AU
direct	-7738 Apr 10 j 06:04	9°♊00'54	
evening set	-7738 Jul 21 j 20:01	15°♊55'33	
conjunction	-7738 Aug 07 j 10:17	17°♊48'51	1°52'27
minimum elong	-7738 Aug 07 j 10:14	17°♊48'50	1°52'57
max. Earth dist.	-7738 Aug 06 j 21:31	17°♊45'12	11.29319 AU
morning rise	-7738 Aug 23 j 21:08	19°♊41'17	
retrograde	-7738 Nov 30 j 08:06	26°♊21'37	
opposition	-7737 Feb 08 j 14:08	23°♊06'47	2°26'51
min. Earth dist.	-7737 Feb 09 j 01:58	23°♊04'38	9.30487 AU
direct	-7737 Apr 21 j 17:17	19°♊47'42	
evening set	-7737 Aug 01 j 18:09	26°♊40'02	
conjunction	-7737 Aug 18 j 05:17	28°♊32'30	2°08'17
minimum elong	-7737 Aug 18 j 05:15	28°♊32'29	2°08'48
max. Earth dist.	-7737 Aug 17 j 13:50	28°♊28'04	11.30566 AU
	-7737 Aug 30 j 23:28	0°♋	
morning rise	-7737 Sep 03 j 13:42	0°♋24'19	
retrograde	-7737 Dec 11 j 13:15	7°♋06'33	
opposition	-7736 Feb 20 j 02:19	3°♋51'33	2°43'30
min. Earth dist.	-7736 Feb 20 j 17:11	3°♋48'51	9.30227 AU
direct	-7736 May 02 j 01:03	0°♋33'05	
evening set	-7736 Aug 11 j 14:55	7°♋24'40	
conjunction	-7736 Aug 27 j 23:34	9°♋16'52	2°19'37
minimum elong	-7736 Aug 27 j 23:32	9°♋16'51	2°20'08

max. Earth dist.	-7736 Aug 27 j 04:47	9°♋11'27	11.28725 AU
morning rise	-7736 Sep 13 j 06:36	11°♋08'40	
retrograde	-7736 Dec 21 j 20:52	17°♋54'43	
opposition	-7735 Mar 02 j 16:47	14°♋39'11	2°54'30
min. Earth dist.	-7735 Mar 03 j 10:14	14°♋36'01	9.26877 AU
direct	-7735 May 13 j 09:14	11°♋21'06	
evening set	-7735 Aug 22 j 11:44	18°♋13'28	
conjunction	-7735 Sep 07 j 18:59	20°♋05'58	2°26'02
minimum elong	-7735 Sep 07 j 18:58	20°♋05'58	2°26'33
max. Earth dist.	-7735 Sep 06 j 22:30	20°♋00'02	11.23851 AU
morning rise	-7735 Sep 24 j 01:35	21°♋58'21	
retrograde	-7734 Jan 02 j 11:29	28°♋50'04	
opposition	-7734 Mar 14 j 10:34	25°♋33'39	2°59'24
min. Earth dist.	-7734 Mar 15 j 04:57	25°♋30'19	9.20525 AU
direct	-7734 May 24 j 19:24	22°♋15'45	
evening set	-7734 Sep 02 j 10:40	29°♋10'21	
	-7734 Sep 09 j 14:58	0°♌	
conjunction	-7734 Sep 18 j 17:43	1°♌03'47	2°27'13
minimum elong	-7734 Sep 18 j 17:44	1°♌03'48	2°27'42
max. Earth dist.	-7734 Sep 17 j 20:53	0°♌57'42	11.16071 AU
morning rise	-7734 Oct 05 j 00:50	2°♌57'22	
retrograde	-7733 Jan 14 j 07:59	9°♌56'28	
opposition	-7733 Mar 26 j 08:49	6°♌38'51	2°57'49
min. Earth dist.	-7733 Mar 27 j 03:25	6°♌35'27	9.11344 AU
direct	-7733 Jun 05 j 05:57	3°♌20'53	
evening set	-7733 Sep 13 j 13:32	10°♌19'14	
conjunction	-7733 Sep 29 j 21:21	12°♌14'13	2°22'52
minimum elong	-7733 Sep 29 j 21:23	12°♌14'13	2°23'18
max. Earth dist.	-7733 Sep 28 j 23:48	12°♌07'50	11.05607 AU
morning rise	-7733 Oct 16 j 06:14	14°♌09'37	
	-7733 Oct 23 j 14:18	15°♌	
retrograde	-7732 Jan 26 j 13:25	21°♌17'43	
opposition	-7732 Apr 06 j 13:08	17°♌58'40	2°49'23
min. Earth dist.	-7732 Apr 07 j 08:04	17°♌55'10	8.99601 AU
	-7732 May 26 j 18:44	15°℞♌	
direct	-7732 Jun 15 j 20:52	14°♌40'20	
	-7732 Jul 05 j 17:13	15°♌	
evening set	-7732 Sep 23 j 22:02	21°♌43'53	
max. Earth dist.	-7732 Oct 09 j 09:28	23°♌34'22	10.92772 AU
conjunction	-7732 Oct 10 j 07:39	23°♌41'00	2°12'48
minimum elong	-7732 Oct 10 j 07:41	23°♌41'01	2°13'09
morning rise	-7732 Oct 26 j 19:34	25°♌38'53	
	-7732 Dec 06 j 23:42	0°♍	
retrograde	-7731 Feb 07 j 02:31	2°♍57'31	
	-7731 Apr 13 j 19:50	30°℞♌	
opposition	-7731 Apr 19 j 00:32	29°♌36'47	2°33'53
min. Earth dist.	-7731 Apr 19 j 19:27	29°♌33'15	8.85653 AU
direct	-7731 Jun 27 j 16:15	26°♌17'50	
	-7731 Sep 04 j 05:27	0°♍	
evening set	-7731 Oct 05 j 14:11	3°♍28'06	
max. Earth dist.	-7731 Oct 21 j 05:47	5°♍21'32	10.77952 AU
conjunction	-7731 Oct 22 j 02:55	5°♍27'58	1°56'56
minimum elong	-7731 Oct 22 j 02:58	5°♍27'59	1°57'12
morning rise	-7731 Nov 07 j 18:53	7°♍28'53	
retrograde	-7730 Feb 20 j 02:03	14°♍59'30	
opposition	-7730 May 01 j 19:44	11°♍36'52	2°11'14
min. Earth dist.	-7730 May 02 j 13:20	11°♍33'32	8.69951 AU
direct	-7730 Jul 09 j 20:41	8°♍17'05	
evening set	-7730 Oct 17 j 15:59	15°♍35'33	
conjunction	-7730 Nov 03 j 08:54	17°♍38'45	1°35'24
minimum elong	-7730 Nov 03 j 08:58	17°♍38'46	1°35'34

Attention, astronomical year style is used: The year -7730 in astronomical counting style is the year 7731 BCE in historical counting style.

max. Earth dist.	-7730 Nov 02 j 14:21	17°♍33'00	10.61661 AU
morning rise	-7730 Nov 20 j 05:44	19°♍43'15	
retrograde	-7729 Mar 05 j 14:51	27°♍26'58	
opposition	-7729 May 14 j 23:49	24°♍02'22	1°41'42
min. Earth dist.	-7729 May 15 j 14:29	23°♍59'33	8.53129 AU
direct	-7729 Jul 22 j 07:49	20°♍41'36	
evening set	-7729 Oct 30 j 05:26	28°♍09'35	
	-7729 Nov 13 j 22:51	0°♎	
max. Earth dist.	-7729 Nov 15 j 11:36	0°♎11'35	10.44641 AU
conjunction	-7729 Nov 16 j 03:12	0°♎16'30	1°08'39
minimum elong	-7729 Nov 16 j 03:15	0°♎16'31	1°08'42
morning rise	-7729 Dec 03 j 05:35	2°♎24'59	
retrograde	-7728 Mar 18 j 15:18	10°♎22'25	
opposition	-7728 May 27 j 13:20	6°♎55'49	1°05'54
min. Earth dist.	-7728 May 28 j 00:19	6°♎53'40	8.36034 AU
direct	-7728 Aug 03 j 03:05	3°♎33'52	
evening set	-7728 Nov 11 j 08:20	11°♎12'27	
conjunction	-7728 Nov 28 j 11:22	13°♎23'18	0°37'30
minimum elong	-7728 Nov 28 j 11:24	13°♎23'18	0°37'26
max. Earth dist.	-7728 Nov 27 j 23:23	13°♎19'27	10.27797 AU
morning rise	-7728 Dec 15 j 19:45	15°♎35'55	
retrograde	-7727 Apr 02 j 02:02	23°♎47'00	
opposition	-7727 Jun 10 j 12:14	20°♎18'28	0°25'08
min. Earth dist.	-7727 Jun 10 j 19:22	20°♎17'03	8.19616 AU
direct	-7727 Aug 16 j 10:11	16°♎55'09	
evening set	-7727 Nov 25 j 01:44	24°♎45'00	
conjunction	-7727 Dec 12 j 10:14	26°♎59'47	0°03'19
minimum elong	-7727 Dec 12 j 10:14	26°♎59'47	0°03'08
behind sun begin	-7727 Dec 12 j 03:04	26°♎57'28	
behind sun end	-7727 Dec 12 j 17:25	27°♎02'06	
max. Earth dist.	-7727 Dec 12 j 02:53	26°♎57'25	10.12074 AU
morning rise	-7727 Dec 30 j 00:30	29°♎16'27	
	-7726 Jan 04 j 18:03	0°♏	
desc. node	-7726 Jan 16 j 16:12	1°♏27'39	
retrograde	-7726 Apr 16 j 22:35	7°♏40'10	
opposition	-7726 Jun 24 j 19:53	4°♏09'57	-0°18'40
min. Earth dist.	-7726 Jun 24 j 22:52	4°♏09'21	8.04833 AU
direct	-7726 Aug 30 j 04:17	0°♏45'11	
evening set	-7726 Dec 09 j 10:07	8°♏46'23	
conjunction	-7726 Dec 26 j 23:48	11°♏04'47	-0°32'13
minimum elong	-7726 Dec 26 j 23:46	11°♏04'46	0°32'31
max. Earth dist.	-7726 Dec 26 j 22:17	11°♏04'17	9.98418 AU
morning rise	-7725 Jan 13 j 19:13	13°♏25'03	
	-7725 Jan 26 j 06:19	15°♏	
retrograde	-7725 May 02 j 03:24	21°♏59'27	
opposition	-7725 Jul 09 j 10:56	18°♏27'52	-1°02'48
min. Earth dist.	-7725 Jul 09 j 09:21	18°♏28'12	7.92618 AU
direct	-7725 Sep 13 j 08:38	15°♏01'39	
evening set	-7725 Dec 24 j 08:39	23°♏13'32	
conjunction	-7724 Jan 11 j 02:59	25°♏34'57	-1°06'34
minimum elong	-7724 Jan 11 j 02:55	25°♏34'56	1°06'57
max. Earth dist.	-7724 Jan 11 j 08:08	25°♏36'40	9.87734 AU
morning rise	-7724 Jan 29 j 02:30	27°♏58'04	
	-7724 Feb 14 j 01:01	0°♐	
retrograde	-7724 May 16 j 13:38	6°♐40'08	
opposition	-7724 Jul 23 j 07:33	3°♐07'37	-1°44'04
min. Earth dist.	-7724 Jul 23 j 01:04	3°♐08'58	7.83803 AU
	-7724 Sep 08 j 08:17	30°℞♏	
direct	-7724 Sep 26 j 22:31	29°♏40'00	
	-7724 Oct 15 j 09:46	0°♐	
evening set	-7723 Jan 07 j 19:20	8°♐00'58	

conjunction	-7723 Jan 25 j 17:25	10°♐24'32	-1°37'12
minimum elong	-7723 Jan 25 j 17:20	10°♐24'30	1°37'40
max. Earth dist.	-7723 Jan 26 j 05:06	10°♐28'27	9.80777 AU
morning rise	-7723 Feb 12 j 19:46	12°♐49'30	
retrograde	-7723 Jun 01 j 01:49	21°♐35'11	
opposition	-7723 Aug 07 j 07:14	18°♐02'15	-2°19'03
min. Earth dist.	-7723 Aug 06 j 20:06	18°♐04'36	7.78999 AU
direct	-7723 Oct 11 j 20:23	14°♐33'25	
evening set	-7722 Jan 23 j 14:53	23°♐00'56	
conjunction	-7722 Feb 10 j 15:36	25°♐25'36	-2°01'39
minimum elong	-7722 Feb 10 j 15:32	25°♐25'34	2°02'09
max. Earth dist.	-7722 Feb 11 j 08:57	25°♐31'26	9.78048 AU
morning rise	-7722 Feb 28 j 19:22	27°♐51'15	
	-7722 Mar 17 j 12:51	0°♑	
retrograde	-7722 Jun 16 j 11:48	6°♑35'55	
opposition	-7722 Aug 22 j 06:57	3°♑03'10	-2°44'45
min. Earth dist.	-7722 Aug 21 j 16:03	3°♑06'19	7.78546 AU
	-7722 Oct 05 j 11:17	30°℞♐	
direct	-7722 Oct 26 j 23:08	29°♐33'21	
	-7722 Nov 17 j 08:46	0°♑	
evening set	-7721 Feb 08 j 14:28	8°♑04'03	
conjunction	-7721 Feb 26 j 16:45	10°♑28'43	-2°17'53
minimum elong	-7721 Feb 26 j 16:42	10°♑28'42	2°18'24
max. Earth dist.	-7721 Feb 27 j 14:35	10°♑36'02	9.79756 AU
morning rise	-7721 Mar 16 j 20:42	12°♑53'53	
retrograde	-7721 Jul 01 j 15:49	21°♑32'54	
min. Earth dist.	-7721 Sep 05 j 10:28	18°♑04'34	7.82463 AU
opposition	-7721 Sep 06 j 04:00	18°♑00'52	-2°59'06
direct	-7721 Nov 11 j 03:29	14°♑30'24	
evening set	-7720 Feb 24 j 12:53	23°♑00'28	
conjunction	-7720 Mar 13 j 15:48	25°♑24'07	-2°24'46
minimum elong	-7720 Mar 13 j 15:47	25°♑24'07	2°25'14
max. Earth dist.	-7720 Mar 14 j 16:27	25°♑32'19	9.85761 AU
morning rise	-7720 Mar 31 j 18:59	27°♑47'46	
	-7720 Apr 18 j 05:21	0°♒	
retrograde	-7720 Jul 15 j 11:10	6°♒17'01	
opposition	-7720 Sep 19 j 19:32	2°♒46'12	-3°01'17
min. Earth dist.	-7720 Sep 19 j 00:57	2°♒50'07	7.90437 AU
	-7720 Oct 28 j 00:02	30°℞♑	
direct	-7720 Nov 25 j 06:37	29°♑15'28	
	-7720 Dec 23 j 13:22	0°♒	
evening set	-7719 Mar 11 j 05:43	7°♒41'15	
conjunction	-7719 Mar 29 j 08:22	10°♒03'00	-2°22'07
minimum elong	-7719 Mar 29 j 08:24	10°♒03'01	2°22'32
max. Earth dist.	-7719 Mar 30 j 09:40	10°♒11'19	9.95597 AU
morning rise	-7719 Apr 16 j 09:56	12°♒24'18	
	-7719 May 07 j 09:01	15°♒	
retrograde	-7719 Jul 29 j 19:31	20°♒40'38	
min. Earth dist.	-7719 Oct 03 j 09:05	17°♒15'18	8.01877 AU
opposition	-7719 Oct 04 j 03:22	17°♒11'30	-2°51'50
	-7719 Nov 01 j 16:04	15°℞♒	
direct	-7719 Dec 10 j 05:28	13°♒40'55	
	-7718 Jan 17 j 16:39	15°♒	
evening set	-7718 Mar 26 j 12:52	21°♒59'16	
conjunction	-7718 Apr 13 j 14:26	24°♒18'28	-2°10'43
minimum elong	-7718 Apr 13 j 14:29	24°♒18'29	2°11'03
max. Earth dist.	-7718 Apr 14 j 14:33	24°♒26'16	10.08556 AU
morning rise	-7718 May 01 j 13:41	26°♒36'48	
	-7718 May 29 j 21:55	0°♓	
retrograde	-7718 Aug 12 j 15:35	4°♓38'27	
min. Earth dist.	-7718 Oct 17 j 08:55	1°♓14'50	8.16006 AU
opposition	-7718 Oct 18 j 02:16	1°♓11'16	-2°32'19

Attention, astronomical year style is used: The year -7718 in astronomical counting style is the year 7719 BCE in historical counting style.

	-7718 Nov 01 j 20:19	30°♑℞	
direct	-7718 Dec 24 j 22:09	27°♒41'16	
	-7717 Feb 15 j 05:42	0°♓	
evening set	-7717 Apr 10 j 07:26	5°♓49'53	
conjunction	-7717 Apr 28 j 07:11	8°♓06'03	-1°52'01
minimum elong	-7717 Apr 28 j 07:15	8°♓06'05	1°52'15
max. Earth dist.	-7717 Apr 29 j 04:58	8°♓12'59	10.23779 AU
morning rise	-7717 May 16 j 03:35	10°♓21'04	
retrograde	-7717 Aug 25 j 21:31	18°♓07'31	
opposition	-7717 Oct 31 j 15:22	14°♓42'26	-2°04'55
min. Earth dist.	-7717 Oct 30 j 23:26	14°♓45'39	8.31938 AU
direct	-7716 Jan 08 j 06:29	11°♓13'23	
evening set	-7716 Apr 23 j 12:31	19°♓10'57	
conjunction	-7716 May 11 j 09:45	21°♓23'50	-1°27'47
minimum elong	-7716 May 11 j 09:49	21°♓23'51	1°27'55
max. Earth dist.	-7716 May 12 j 04:23	21°♓29'39	10.40342 AU
morning rise	-7716 May 29 j 02:42	23°♓35'19	
	-7716 Aug 02 j 08:39	0°♈	
retrograde	-7716 Sep 06 j 16:57	1°♈07'05	
	-7716 Oct 12 j 13:49	30°♓℞	
opposition	-7716 Nov 12 j 18:35	27°♓44'08	-1°32'03
min. Earth dist.	-7716 Nov 12 j 04:34	27°♓46'55	8.48757 AU
direct	-7715 Jan 21 j 03:35	24°♓16'20	
	-7715 Apr 19 j 14:42	0°♈	
evening set	-7715 May 07 j 03:45	2°♈02'25	
conjunction	-7715 May 24 j 21:47	4°♈11'55	-0°59'54
minimum elong	-7715 May 24 j 21:49	4°♈11'56	0°59'56
max. Earth dist.	-7715 May 25 j 13:10	4°♈16'37	10.57328 AU
morning rise	-7715 Jun 11 j 10:43	6°♈19'51	
retrograde	-7715 Sep 19 j 02:58	13°♈38'12	
opposition	-7715 Nov 25 j 12:53	10°♈17'18	-0°55'59
min. Earth dist.	-7715 Nov 25 j 01:57	10°♈19'26	8.65596 AU
direct	-7714 Feb 03 j 13:25	6°♈50'55	
evening set	-7714 May 20 j 05:30	14°♈25'46	
conjunction	-7714 Jun 06 j 19:37	16°♈31'56	-0°30'06
minimum elong	-7714 Jun 06 j 19:39	16°♈31'56	0°30'01
max. Earth dist.	-7714 Jun 07 j 07:05	16°♈35'22	10.73896 AU
morning rise	-7714 Jun 24 j 04:15	18°♈36'28	
retrograde	-7714 Oct 01 j 02:05	25°♈43'11	
opposition	-7714 Dec 07 j 23:00	22°♈24'10	-0°18'45
min. Earth dist.	-7714 Dec 07 j 16:01	22°♈25'30	8.81673 AU
direct	-7713 Feb 16 j 14:20	18°♈59'14	
evening set	-7713 Jun 01 j 19:06	26°♈23'41	
asc. node	-7713 Jun 17 j 05:42	28°♈12'43	
conjunction	-7713 Jun 19 j 04:48	28°♈26'40	0°00'10
minimum elong	-7713 Jun 19 j 04:47	28°♈26'40	0°00'21
behind sun begin	-7713 Jun 18 j 21:41	28°♈24'35	
behind sun end	-7713 Jun 19 j 11:52	28°♈28'45	
max. Earth dist.	-7713 Jun 19 j 11:02	28°♈28'30	10.89313 AU
	-7713 Jul 02 j 08:45	0°♉	
morning rise	-7713 Jul 06 j 09:03	0°♉28'04	
retrograde	-7713 Oct 12 j 17:45	7°♉25'08	
opposition	-7713 Dec 20 j 01:46	4°♉07'44	0°18'00
min. Earth dist.	-7713 Dec 19 j 22:58	4°♉08'16	8.96301 AU
direct	-7712 Feb 29 j 06:04	0°♉44'14	
evening set	-7712 Jun 12 j 21:48	7°♉59'28	
conjunction	-7712 Jun 30 j 02:49	9°♉59'33	0°29'35
minimum elong	-7712 Jun 30 j 02:48	9°♉59'33	0°29'52
max. Earth dist.	-7712 Jun 30 j 03:30	9°♉59'45	11.02945 AU
morning rise	-7712 Jul 17 j 02:46	11°♉58'09	
	-7712 Aug 14 j 06:54	15°♉	

retrograde	-7712 Oct 23 j 02:54	18°♉47'43	
opposition	-7712 Dec 30 j 22:48	15°♉31'35	0°52'55
min. Earth dist.	-7712 Dec 30 j 23:20	15°♉31'29	9.08875 AU
	-7711 Jan 07 j 00:41	15°♉℞	
direct	-7711 Mar 12 j 13:15	12°♉09'26	
	-7711 May 13 j 13:50	15°♉	
evening set	-7711 Jun 24 j 15:03	19°♉16'49	
conjunction	-7711 Jul 11 j 15:30	21°♉14'22	0°57'09
minimum elong	-7711 Jul 11 j 15:28	21°♉14'22	0°57'31
max. Earth dist.	-7711 Jul 11 j 12:00	21°♉13'21	11.14246 AU
morning rise	-7711 Jul 28 j 11:05	23°♉10'35	
retrograde	-7711 Nov 03 j 09:44	29°♉54'54	
opposition	-7710 Jan 11 j 15:27	26°♉39'41	1°24'58
min. Earth dist.	-7710 Jan 11 j 19:30	26°♉38'56	9.18895 AU
direct	-7710 Mar 24 j 13:57	23°♉18'44	
	-7710 Jul 03 j 02:00	0°♊	
evening set	-7710 Jul 06 j 00:45	0°♊19'50	
conjunction	-7710 Jul 22 j 20:50	2°♊15'19	1°22'05
minimum elong	-7710 Jul 22 j 20:48	2°♊15'19	1°22'31
max. Earth dist.	-7710 Jul 22 j 13:23	2°♊13'11	11.22779 AU
morning rise	-7710 Aug 08 j 12:23	4°♊09'36	
retrograde	-7710 Nov 14 j 13:20	10°♊50'50	
opposition	-7709 Jan 23 j 05:07	7°♊36'13	1°53'20
min. Earth dist.	-7709 Jan 23 j 13:28	7°♊34'41	9.25997 AU
direct	-7709 Apr 05 j 05:55	4°♊16'19	
evening set	-7709 Jul 17 j 04:43	11°♊12'48	
conjunction	-7709 Aug 02 j 20:40	13°♊06'42	1°43'43
minimum elong	-7709 Aug 02 j 20:37	13°♊06'41	1°44'12
max. Earth dist.	-7709 Aug 02 j 08:23	13°♊03'11	11.28274 AU
morning rise	-7709 Aug 19 j 08:54	14°♊59'37	
retrograde	-7709 Nov 25 j 15:25	21°♊39'55	
opposition	-7708 Feb 03 j 17:24	18°♊25'30	2°17'21
min. Earth dist.	-7708 Feb 04 j 05:46	18°♊23'15	9.29986 AU
direct	-7708 Apr 15 j 19:25	15°♊06'23	
evening set	-7708 Jul 27 j 04:38	21°♊59'56	
conjunction	-7708 Aug 12 j 17:01	23°♊52'45	2°01'30
minimum elong	-7708 Aug 12 j 16:58	23°♊52'44	2°02'00
max. Earth dist.	-7708 Aug 12 j 00:49	23°♊48'06	11.30626 AU
morning rise	-7708 Aug 29 j 02:35	25°♊44'49	
	-7708 Oct 10 j 17:02	0°♋	
retrograde	-7708 Dec 05 j 19:54	2°♋26'12	
	-7707 Feb 02 j 23:44	30°♋℞	
opposition	-7707 Feb 14 j 05:37	29°♊11'36	2°36'28
min. Earth dist.	-7707 Feb 14 j 20:26	29°♊08'55	9.30800 AU
direct	-7707 Apr 27 j 06:48	25°♊53'04	
	-7707 Jul 12 j 04:00	0°♋	
evening set	-7707 Aug 07 j 02:09	2°♋45'09	
conjunction	-7707 Aug 23 j 11:54	4°♋37'28	2°14'58
minimum elong	-7707 Aug 23 j 11:52	4°♋37'27	2°15'29
max. Earth dist.	-7707 Aug 22 j 17:43	4°♋32'14	11.29820 AU
morning rise	-7707 Sep 08 j 19:29	6°♋29'15	
retrograde	-7707 Dec 17 j 03:04	13°♋13'38	
opposition	-7706 Feb 25 j 19:13	9°♋58'27	2°50'09
min. Earth dist.	-7706 Feb 26 j 11:43	9°♋55'27	9.28457 AU
direct	-7706 May 08 j 15:37	6°♋40'14	
evening set	-7706 Aug 17 j 22:57	13°♋32'22	
max. Earth dist.	-7706 Sep 02 j 10:51	15°♋18'57	11.25907 AU
conjunction	-7706 Sep 03 j 06:56	15°♋24'45	2°23'42
minimum elong	-7706 Sep 03 j 06:55	15°♋24'44	2°24'12
morning rise	-7706 Sep 19 j 13:31	17°♋16'51	
retrograde	-7706 Dec 28 j 15:31	24°♋06'02	

Attention, astronomical year style is used: The year -7705 in astronomical counting style is the year 7706 BCE in historical counting style.

opposition	-7705 Mar 09 j 11:30	20°♋49'57	2°57'56
min. Earth dist.	-7705 Mar 10 j 06:08	20°♋46'33	9.23040 AU
direct	-7705 May 20 j 00:17	17°♋31'48	
evening set	-7705 Aug 28 j 21:00	24°♋25'30	
max. Earth dist.	-7705 Sep 13 j 05:34	26°♋12'00	11.19021 AU
conjunction	-7705 Sep 14 j 03:59	26°♋18'32	2°27'20
minimum elong	-7705 Sep 14 j 03:59	26°♋18'32	2°27'50
morning rise	-7705 Sep 30 j 10:48	28°♋11'35	
	-7705 Oct 16 j 18:43	0°♌	
retrograde	-7704 Jan 09 j 06:34	5°♌07'20	
opposition	-7704 Mar 20 j 07:41	1°♌50'01	2°59'24
min. Earth dist.	-7704 Mar 21 j 03:54	1°♌46'20	9.14728 AU
	-7704 Apr 15 j 21:57	30℞♋	
direct	-7704 May 30 j 09:36	28°♋31'42	
	-7704 Jul 12 j 12:58	0°♌	
evening set	-7704 Sep 07 j 21:52	5°♌28'31	
max. Earth dist.	-7704 Sep 23 j 06:06	7°♌16'02	11.09387 AU
conjunction	-7704 Sep 24 j 05:07	7°♌22'49	2°25'34
minimum elong	-7704 Sep 24 j 05:08	7°♌22'49	2°26'01
morning rise	-7704 Oct 10 j 13:12	9°♌17'25	
	-7704 Dec 09 j 20:53	15°♌	
retrograde	-7703 Jan 20 j 07:33	16°♌21'30	
	-7703 Mar 03 j 22:31	15℞♌	
opposition	-7703 Apr 01 j 09:12	13°♌02'40	2°54'11
min. Earth dist.	-7703 Apr 02 j 05:23	12°♌58'57	9.03790 AU
direct	-7703 Jun 11 j 00:44	9°♌43'58	
	-7703 Sep 03 j 15:14	15°♌	
evening set	-7703 Sep 19 j 03:20	16°♌45'21	
conjunction	-7703 Oct 05 j 12:09	18°♌41'33	2°18'09
minimum elong	-7703 Oct 05 j 12:11	18°♌41'34	2°18'32
max. Earth dist.	-7703 Oct 04 j 14:14	18°♌35'01	10.97309 AU
morning rise	-7703 Oct 21 j 22:33	20°♌38'21	
retrograde	-7702 Feb 01 j 17:33	27°♌52'22	
opposition	-7702 Apr 13 j 17:07	24°♌31'49	2°41'58
min. Earth dist.	-7702 Apr 14 j 11:57	24°♌28'18	8.90580 AU
direct	-7702 Jun 22 j 17:59	21°♌12'34	
evening set	-7702 Sep 30 j 15:47	28°♌20'00	
	-7702 Oct 14 j 13:16	0°♍	
max. Earth dist.	-7702 Oct 16 j 05:53	0°♍12'17	10.83191 AU
conjunction	-7702 Oct 17 j 03:08	0°♍18'42	2°04'57
minimum elong	-7702 Oct 17 j 03:11	0°♍18'43	2°05'15
morning rise	-7702 Nov 02 j 17:03	2°♍18'18	
retrograde	-7701 Feb 14 j 12:58	9°♍43'40	
opposition	-7701 Apr 26 j 08:30	6°♍21'16	2°22'36
min. Earth dist.	-7701 Apr 27 j 02:00	6°♍17'58	8.75563 AU
direct	-7701 Jul 04 j 17:04	3°♍01'17	
evening set	-7701 Oct 12 j 12:58	10°♍16'15	
max. Earth dist.	-7701 Oct 28 j 07:40	12°♍11'49	10.67557 AU
conjunction	-7701 Oct 29 j 03:49	12°♍18'01	1°46'00
minimum elong	-7701 Oct 29 j 03:52	12°♍18'02	1°46'12
morning rise	-7701 Nov 14 j 22:22	14°♍20'58	
retrograde	-7700 Feb 27 j 19:37	21°♍58'54	
opposition	-7700 May 08 j 08:37	18°♍34'35	1°56'10
min. Earth dist.	-7700 May 09 j 00:19	18°♍31'35	8.59331 AU
direct	-7700 Jul 15 j 23:59	15°♍13'41	
evening set	-7700 Oct 23 j 20:40	22°♍37'31	
conjunction	-7700 Nov 09 j 16:01	24°♍42'47	1°21'34
minimum elong	-7700 Nov 09 j 16:05	24°♍42'48	1°21'40
max. Earth dist.	-7700 Nov 08 j 22:45	24°♍37'22	10.51041 AU
morning rise	-7700 Nov 26 j 15:58	26°♍49'32	
	-7700 Dec 24 j 01:21	0°♎	

retrograde	-7699 Mar 12 j 13:07	4°♎40'53	
opposition	-7699 May 21 j 17:54	1°♎14'38	1°23'06
min. Earth dist.	-7699 May 22 j 06:47	1°♎12'08	8.42593 AU
	-7699 Jun 07 j 02:49	30℞♍	
direct	-7699 Jul 28 j 16:20	27°♍52'42	
	-7699 Sep 16 j 00:55	0°♎	
evening set	-7699 Nov 05 j 17:04	5°♎26'34	
conjunction	-7699 Nov 22 j 17:42	7°♎35'41	0°52'18
minimum elong	-7699 Nov 22 j 17:44	7°♎35'42	0°52'17
max. Earth dist.	-7699 Nov 22 j 04:56	7°♎31'37	10.34387 AU
morning rise	-7699 Dec 09 j 23:24	9°♎46'29	
retrograde	-7698 Mar 26 j 18:13	17°♎51'29	
opposition	-7698 Jun 04 j 12:20	14°♎23'24	0°44'24
min. Earth dist.	-7698 Jun 04 j 21:02	14°♎21'41	8.26161 AU
direct	-7698 Aug 10 j 19:05	11°♎00'21	
evening set	-7698 Nov 19 j 03:35	18°♎45'07	
conjunction	-7698 Dec 06 j 09:42	20°♎58'11	0°19'17
minimum elong	-7698 Dec 06 j 09:43	20°♎58'11	0°19'09
max. Earth dist.	-7698 Dec 06 j 02:06	20°♎55'44	10.18449 AU
morning rise	-7698 Dec 23 j 21:11	23°♎13'03	
	-7697 Feb 27 j 03:35	0°♏	
retrograde	-7697 Apr 10 j 11:19	1°♏31'13	
	-7697 May 23 j 11:26	30℞♎	
opposition	-7697 Jun 18 j 16:00	28°♎01'29	0°01'40
min. Earth dist.	-7697 Jun 18 j 19:46	28°♎00'44	8.10935 AU
desc. node	-7697 Jul 02 j 22:48	26°♎53'54	
direct	-7697 Aug 24 j 07:02	24°♎37'15	
	-7697 Nov 12 j 13:06	0°♏	
evening set	-7697 Dec 03 j 04:55	2°♏33'18	
conjunction	-7697 Dec 20 j 16:20	4°♏50'07	-0°15'56
minimum elong	-7697 Dec 20 j 16:19	4°♏50'07	0°16'11
max. Earth dist.	-7697 Dec 20 j 14:24	4°♏49'29	10.04151 AU
morning rise	-7696 Jan 07 j 09:17	7°♏08'48	
	-7696 Mar 28 j 13:20	15°♏	
retrograde	-7696 Apr 24 j 14:16	15°♏38'41	
	-7696 May 21 j 17:08	15℞♏	
opposition	-7696 Jul 02 j 03:57	12°♏07'38	-0°42'42
min. Earth dist.	-7696 Jul 02 j 02:38	12°♏07'54	7.97855 AU
direct	-7696 Sep 06 j 05:24	8°♏42'09	
	-7696 Dec 02 j 13:26	15°♏	
evening set	-7696 Dec 16 j 21:12	16°♏49'14	
conjunction	-7695 Jan 03 j 13:27	19°♏09'19	-0°51'06
minimum elong	-7695 Jan 03 j 13:24	19°♏09'18	0°51'27
max. Earth dist.	-7695 Jan 03 j 17:13	19°♏10'34	9.92426 AU
morning rise	-7695 Jan 21 j 11:06	21°♏31'13	
	-7695 Apr 26 j 07:10	0°♐	
retrograde	-7695 May 09 j 23:25	0°♐10'12	
	-7695 May 23 j 14:18	30℞♏	
opposition	-7695 Jul 16 j 22:24	26°♏38'13	-1°25'42
min. Earth dist.	-7695 Jul 16 j 16:29	26°♏39'27	7.87809 AU
direct	-7695 Sep 20 j 14:42	23°♏11'31	
	-7695 Dec 20 j 16:27	0°♐	
evening set	-7694 Jan 01 j 02:56	1°♐28'29	
conjunction	-7694 Jan 18 j 23:13	3°♐51'06	-1°23'46
minimum elong	-7694 Jan 18 j 23:09	3°♐51'05	1°24'12
max. Earth dist.	-7694 Jan 19 j 08:45	3°♐54'18	9.84102 AU
morning rise	-7694 Feb 06 j 00:23	6°♐15'18	
retrograde	-7694 May 25 j 11:43	14°♐59'43	
opposition	-7694 Jul 31 j 21:13	11°♐27'18	-2°03'57
min. Earth dist.	-7694 Jul 31 j 11:17	11°♐29'23	7.81520 AU
direct	-7694 Oct 05 j 09:25	7°♐59'28	
evening set	-7693 Jan 16 j 19:00	16°♐24'08	

Attention, astronomical year style is used: The year -7693 in astronomical counting style is the year 7694 BCE in historical counting style.

conjunction	-7693 Feb 03 j 18:19	18°♐48'16	-1°51'20
minimum elong	-7693 Feb 03 j 18:15	18°♐48'15	1°51'49
max. Earth dist.	-7693 Feb 04 j 09:29	18°♐53'23	9.79801 AU
morning rise	-7693 Feb 21 j 21:34	21°♐13'38	
retrograde	-7693 Jun 09 j 22:57	29°♐59'05	
opposition	-7693 Aug 15 j 21:29	26°♐26'44	-2°34'10
min. Earth dist.	-7693 Aug 15 j 08:00	26°♐29'34	7.79449 AU
direct	-7693 Oct 20 j 10:53	22°♐57'55	
	-7692 Jan 21 j 11:46	0°♑	
evening set	-7692 Feb 01 j 17:17	1°♑27'11	
conjunction	-7692 Feb 19 j 18:40	3°♑51'46	-2°11'30
minimum elong	-7692 Feb 19 j 18:37	3°♑51'45	2°12'01
max. Earth dist.	-7692 Feb 20 j 14:30	3°♑58'26	9.79849 AU
morning rise	-7692 Mar 08 j 22:44	6°♑17'08	
retrograde	-7692 Jun 24 j 05:03	14°♑58'48	
opposition	-7692 Aug 29 j 20:02	11°♑27'01	-2°53'51
min. Earth dist.	-7692 Aug 29 j 03:52	11°♑30'26	7.81710 AU
direct	-7692 Nov 03 j 15:11	7°♑57'26	
evening set	-7691 Feb 16 j 16:48	16°♑27'39	
conjunction	-7691 Mar 06 j 19:19	18°♑51'39	-2°22'43
minimum elong	-7691 Mar 06 j 19:18	18°♑51'38	2°23'13
max. Earth dist.	-7691 Mar 07 j 18:08	18°♑59'16	9.84165 AU
morning rise	-7691 Mar 24 j 23:01	21°♑15'54	
retrograde	-7691 Jul 09 j 04:05	29°♑49'26	
opposition	-7691 Sep 13 j 14:09	26°♑18'41	-3°01'35
min. Earth dist.	-7691 Sep 12 j 20:21	26°♑22'25	7.88001 AU
direct	-7691 Nov 18 j 19:33	22°♑48'39	
	-7690 Feb 22 j 13:31	0°♒	
evening set	-7690 Mar 04 j 12:31	1°♒16'10	
conjunction	-7690 Mar 22 j 15:15	3°♒38'40	-2°24'22
minimum elong	-7690 Mar 22 j 15:16	3°♒38'40	2°24'49
max. Earth dist.	-7690 Mar 23 j 15:22	3°♒46'38	9.92281 AU
morning rise	-7690 Apr 09 j 17:36	6°♒00'56	
retrograde	-7690 Jul 23 j 17:35	14°♒23'01	
min. Earth dist.	-7690 Sep 27 j 07:02	10°♒57'32	7.97743 AU
opposition	-7690 Sep 28 j 01:29	10°♒53'42	-2°57'19
direct	-7690 Dec 03 j 20:29	7°♒23'38	
	-7689 Mar 14 j 01:01	15°♒	
evening set	-7689 Mar 20 j 00:18	15°♒45'18	
conjunction	-7689 Apr 07 j 02:29	18°♒05'36	-2°16'49
minimum elong	-7689 Apr 07 j 02:31	18°♒05'37	2°17'12
max. Earth dist.	-7689 Apr 08 j 02:38	18°♒13'28	10.03578 AU
morning rise	-7689 Apr 25 j 02:47	20°♒25'14	
retrograde	-7689 Aug 06 j 19:59	28°♒33'38	
min. Earth dist.	-7689 Oct 11 j 10:44	25°♒09'45	8.10315 AU
opposition	-7689 Oct 12 j 04:34	25°♒06'04	-2°42'10
direct	-7689 Dec 18 j 15:40	21°♒36'20	
evening set	-7688 Apr 03 j 01:04	29°♒49'32	
	-7688 Apr 04 j 10:24	0°♓	
conjunction	-7688 Apr 21 j 01:55	2°♓07'07	-2°01'14
minimum elong	-7688 Apr 21 j 01:58	2°♓07'08	2°01'31
max. Earth dist.	-7688 Apr 22 j 00:36	2°♓14'23	10.17380 AU
morning rise	-7688 May 08 j 23:35	4°♓23'39	
retrograde	-7688 Aug 19 j 09:27	12°♓17'14	
opposition	-7688 Oct 24 j 22:26	8°♓51'36	-2°18'06
min. Earth dist.	-7688 Oct 24 j 06:24	8°♓54'52	8.24995 AU
direct	-7687 Jan 01 j 03:32	5°♓22'29	
evening set	-7687 Apr 17 j 13:02	13°♓25'25	
conjunction	-7687 May 05 j 11:37	15°♓39'53	-1°39'17
minimum elong	-7687 May 05 j 11:41	15°♓39'54	1°39'28
max. Earth dist.	-7687 May 06 j 07:20	15°♓46'05	10.32881 AU
morning rise	-7687 May 23 j 06:06	17°♓53'01	
retrograde	-7687 Sep 01 j 10:39	25°♓31'45	
opposition	-7687 Nov 07 j 06:42	22°♓08'06	-1°47'25
min. Earth dist.	-7687 Nov 06 j 17:23	22°♓10'46	8.40955 AU
direct	-7686 Jan 15 j 05:48	18°♓39'52	
evening set	-7686 May 01 j 11:09	26°♓31'37	
conjunction	-7686 May 19 j 06:42	28°♓42'47	-1°12'50
minimum elong	-7686 May 19 j 06:45	28°♓42'48	1°12'54
max. Earth dist.	-7686 May 19 j 22:12	28°♓47'34	10.49221 AU
	-7686 May 29 j 17:24	0°♈	
morning rise	-7686 Jun 05 j 21:35	0°♈52'25	
retrograde	-7686 Sep 14 j 00:17	8°♈17'11	
opposition	-7686 Nov 20 j 05:32	4°♈55'25	-1°12'32
min. Earth dist.	-7686 Nov 19 j 18:59	4°♈57'30	8.57351 AU
direct	-7685 Jan 28 j 22:19	1°♈28'19	
evening set	-7685 May 14 j 19:19	9°♈08'44	
conjunction	-7685 Jun 01 j 11:16	11°♈16'33	-0°43'41
minimum elong	-7685 Jun 01 j 11:19	11°♈16'34	0°43'38
max. Earth dist.	-7685 Jun 01 j 22:11	11°♈19'52	10.65556 AU
morning rise	-7685 Jun 18 j 22:11	13°♈22'47	
retrograde	-7685 Sep 26 j 02:58	20°♈35'07	
opposition	-7685 Dec 02 j 19:32	17°♈15'05	-0°35'34
min. Earth dist.	-7685 Dec 02 j 11:39	17°♈16'37	8.73363 AU
direct	-7684 Feb 11 j 05:22	13°♈49'12	
evening set	-7684 May 26 j 14:44	21°♈18'52	
conjunction	-7684 Jun 13 j 02:38	23°♈23'27	-0°13'28
minimum elong	-7684 Jun 13 j 02:38	23°♈23'27	0°13'19
behind sun begin	-7684 Jun 12 j 22:33	23°♈22'15	
behind sun end	-7684 Jun 13 j 06:43	23°♈24'39	
max. Earth dist.	-7684 Jun 13 j 09:36	23°♈25'31	10.81106 AU
morning rise	-7684 Jun 30 j 09:08	25°♈26'26	
	-7684 Aug 13 j 07:04	0°♉	
retrograde	-7684 Oct 06 j 23:20	2°♉28'13	
asc. node	-7684 Nov 27 j 16:44	0°♉23'05	
	-7684 Dec 02 j 23:58	30°℞♈	
opposition	-7684 Dec 14 j 01:46	29°♈09'44	0°01'37
min. Earth dist.	-7684 Dec 13 j 21:04	29°♈10'38	8.88272 AU
direct	-7683 Feb 23 j 01:31	25°♈45'09	
	-7683 May 10 j 13:08	0°♉	
evening set	-7683 Jun 07 j 22:32	3°♉05'02	
conjunction	-7683 Jun 25 j 05:59	5°♉06'37	0°16'32
minimum elong	-7683 Jun 25 j 05:58	5°♉06'37	0°16'47
max. Earth dist.	-7683 Jun 25 j 09:09	5°♉07'32	10.95215 AU
morning rise	-7683 Jul 12 j 07:55	7°♉06'38	
retrograde	-7683 Oct 18 j 11:59	13°♉59'58	
opposition	-7683 Dec 26 j 01:46	10°♉42'47	0°37'33
min. Earth dist.	-7683 Dec 26 j 01:07	10°♉42'54	9.01495 AU
direct	-7682 Mar 07 j 11:34	7°♉19'28	
evening set	-7682 Jun 19 j 20:07	14°♉30'52	
	-7682 Jun 24 j 01:47	15°♉	
conjunction	-7682 Jul 06 j 22:51	16°♉29'45	0°45'04
minimum elong	-7682 Jul 06 j 22:49	16°♉29'45	0°45'24
max. Earth dist.	-7682 Jul 06 j 21:19	16°♉29'18	11.07359 AU
morning rise	-7682 Jul 23 j 20:27	18°♉27'13	
retrograde	-7682 Oct 29 j 18:54	25°♉14'16	
opposition	-7681 Jan 06 j 20:37	21°♉58'06	1°11'03
min. Earth dist.	-7681 Jan 06 j 24:00	21°♉57'28	9.12555 AU
direct	-7681 Mar 19 j 15:15	18°♉35'59	
evening set	-7681 Jul 01 j 09:26	25°♉40'24	
conjunction	-7681 Jul 18 j 07:30	27°♉36'59	1°11'19
minimum elong	-7681 Jul 18 j 07:27	27°♉36'58	1°11'43

Attention, astronomical year style is used: The year -7681 in astronomical counting style is the year 7682 BCE in historical counting style.

max. Earth dist.	-7681 Jul 18 j 01:02	27°♉35'07	11.17130 AU
morning rise	-7681 Aug 04 j 01:06	29°♉32'18	
	-7681 Aug 08 j 03:36	0°♊	
retrograde	-7681 Nov 09 j 22:49	6°♊15'13	
opposition	-7680 Jan 18 j 11:31	2°♊59'46	1°41'13
min. Earth dist.	-7680 Jan 18 j 17:58	2°♊58'34	9.21077 AU
	-7680 Mar 09 j 01:52	30°℞♉	
direct	-7680 Mar 30 j 11:59	29°♉38'46	
	-7680 Apr 20 j 18:47	0°♊	
evening set	-7680 Jul 11 j 16:00	6°♊37'46	
conjunction	-7680 Jul 28 j 09:52	8°♊32'30	1°34'31
minimum elong	-7680 Jul 28 j 09:49	8°♊32'29	1°34'59
max. Earth dist.	-7680 Jul 28 j 00:07	8°♊29'41	11.24216 AU
morning rise	-7680 Aug 13 j 23:43	10°♊26'09	
retrograde	-7680 Nov 20 j 02:30	17°♊07'05	
opposition	-7679 Jan 29 j 00:24	13°♊52'01	2°07'17
min. Earth dist.	-7679 Jan 29 j 09:22	13°♊50'23	9.26790 AU
direct	-7679 Apr 11 j 03:57	10°♊32'02	
evening set	-7679 Jul 22 j 17:32	17°♊27'09	
conjunction	-7679 Aug 08 j 07:41	19°♊20'32	1°54'06
minimum elong	-7679 Aug 08 j 07:38	19°♊20'31	1°54'36
max. Earth dist.	-7679 Aug 07 j 19:19	19°♊16'59	11.28400 AU
morning rise	-7679 Aug 24 j 18:19	21°♊13'02	
retrograde	-7679 Dec 01 j 07:08	27°♊53'59	
opposition	-7678 Feb 09 j 12:40	24°♊39'03	2°28'39
min. Earth dist.	-7678 Feb 10 j 00:52	24°♊36'50	9.29527 AU
direct	-7678 Apr 22 j 14:38	21°♊19'54	
evening set	-7678 Aug 02 j 16:04	28°♊12'42	
max. Earth dist.	-7678 Aug 18 j 11:00	0°♋00'41	11.29567 AU
	-7678 Aug 18 j 08:39	0°♋	
conjunction	-7678 Aug 19 j 02:59	0°♋05'16	2°09'33
minimum elong	-7678 Aug 19 j 02:56	0°♋05'15	2°10'03
morning rise	-7678 Sep 04 j 11:24	1°♋57'12	
retrograde	-7678 Dec 12 j 11:13	8°♋40'06	
opposition	-7677 Feb 21 j 01:24	5°♋24'58	2°44'47
min. Earth dist.	-7677 Feb 21 j 16:40	5°♋22'12	9.29207 AU
direct	-7677 May 03 j 23:15	2°♋06'25	
evening set	-7677 Aug 13 j 13:07	8°♋58'31	
conjunction	-7677 Aug 29 j 21:41	10°♋50'49	2°20'25
minimum elong	-7677 Aug 29 j 21:39	10°♋50'49	2°20'56
max. Earth dist.	-7677 Aug 29 j 02:57	10°♋45'25	11.27682 AU
morning rise	-7677 Sep 15 j 04:46	12°♋42'45	
retrograde	-7677 Dec 23 j 20:54	19°♋29'31	
opposition	-7676 Mar 03 j 16:15	16°♋13'50	2°55'13
min. Earth dist.	-7676 Mar 04 j 09:08	16°♋10'47	9.25822 AU
direct	-7676 May 14 j 09:08	12°♋55'42	
evening set	-7676 Aug 23 j 10:18	19°♋48'33	
conjunction	-7676 Sep 08 j 17:38	21°♋41'11	2°26'21
minimum elong	-7676 Sep 08 j 17:37	21°♋41'11	2°26'51
max. Earth dist.	-7676 Sep 07 j 22:12	21°♋35'33	11.22786 AU
morning rise	-7676 Sep 25 j 00:10	23°♋33'42	
	-7676 Dec 11 j 04:14	0°♌	
retrograde	-7675 Jan 03 j 11:25	0°♌26'10	
	-7675 Jan 27 j 02:25	30°℞♋	
opposition	-7675 Mar 15 j 10:34	27°♋09'36	2°59'29
min. Earth dist.	-7675 Mar 16 j 04:03	27°♋06'25	9.19462 AU
direct	-7675 May 25 j 17:57	23°♋51'40	
	-7675 Aug 27 j 12:29	0°♌	
evening set	-7675 Sep 03 j 09:41	0°♌46'45	
conjunction	-7675 Sep 19 j 16:46	2°♌40'20	2°26'59
minimum elong	-7675 Sep 19 j 16:47	2°♌40'20	2°27'28
max. Earth dist.	-7675 Sep 18 j 20:20	2°♌34'21	11.15023 AU
morning rise	-7675 Oct 05 j 23:58	4°♌34'04	
retrograde	-7674 Jan 15 j 09:42	11°♌33'53	
opposition	-7674 Mar 27 j 09:31	8°♌16'11	2°57'13
min. Earth dist.	-7674 Mar 28 j 03:52	8°♌12'49	9.10324 AU
direct	-7674 Jun 06 j 05:36	4°♌58'09	
evening set	-7674 Sep 14 j 12:59	11°♌56'57	
conjunction	-7674 Sep 30 j 20:50	13°♌52'05	2°22'04
minimum elong	-7674 Sep 30 j 20:51	13°♌52'05	2°22'30
max. Earth dist.	-7674 Sep 29 j 23:05	13°♌45'39	11.04635 AU
	-7674 Oct 10 j 10:50	15°♌	
morning rise	-7674 Oct 17 j 06:01	15°♌47'41	
retrograde	-7673 Jan 27 j 13:42	22°♌56'28	
opposition	-7673 Apr 08 j 14:19	19°♌37'19	2°48'05
min. Earth dist.	-7673 Apr 09 j 09:21	19°♌33'48	8.98683 AU
direct	-7673 Jun 17 j 20:11	16°♌18'57	
evening set	-7673 Sep 25 j 21:55	23°♌22'56	
max. Earth dist.	-7673 Oct 11 j 10:27	25°♌13'49	10.91931 AU
conjunction	-7673 Oct 12 j 07:44	25°♌20'12	2°11'26
minimum elong	-7673 Oct 12 j 07:47	25°♌20'13	2°11'46
morning rise	-7673 Oct 28 j 19:56	27°♌18'15	
	-7673 Nov 21 j 22:08	0°♍	
retrograde	-7672 Feb 09 j 03:10	4°♍37'32	
opposition	-7672 Apr 20 j 01:58	1°♍16'41	2°31'54
min. Earth dist.	-7672 Apr 20 j 20:11	1°♍13'17	8.84900 AU
	-7672 May 07 j 15:01	30°℞♌	
direct	-7672 Jun 28 j 18:11	27°♌57'43	
	-7672 Aug 17 j 12:39	0°♍	
evening set	-7672 Oct 06 j 14:29	5°♍08'18	
max. Earth dist.	-7672 Oct 22 j 07:59	7°♍02'23	10.77307 AU
conjunction	-7672 Oct 23 j 03:32	7°♍08'20	1°55'03
minimum elong	-7672 Oct 23 j 03:36	7°♍08'21	1°55'17
morning rise	-7672 Nov 08 j 19:41	9°♍09'24	
retrograde	-7671 Feb 21 j 05:24	16°♍40'31	
opposition	-7671 May 02 j 21:31	13°♍17'47	2°08'37
min. Earth dist.	-7671 May 03 j 13:43	13°♍14'43	8.69426 AU
direct	-7671 Jul 10 j 21:37	9°♍58'02	
evening set	-7671 Oct 18 j 16:40	17°♍16'37	
conjunction	-7671 Nov 04 j 09:51	19°♍19'56	1°33'03
minimum elong	-7671 Nov 04 j 09:54	19°♍19'57	1°33'12
max. Earth dist.	-7671 Nov 03 j 16:11	19°♍14'28	10.61257 AU
morning rise	-7671 Nov 21 j 06:56	21°♍24'34	
retrograde	-7670 Mar 06 j 17:30	29°♍08'36	
opposition	-7670 May 16 j 01:48	25°♍43'55	1°38'32
min. Earth dist.	-7670 May 16 j 15:26	25°♍41'18	8.52841 AU
direct	-7670 Jul 23 j 08:02	22°♍23'10	
evening set	-7670 Oct 31 j 06:36	29°♍51'13	
	-7670 Nov 01 j 11:03	0°♎	
conjunction	-7670 Nov 17 j 04:32	1°♎58'13	1°05'55
minimum elong	-7670 Nov 17 j 04:35	1°♎58'14	1°05'57
max. Earth dist.	-7670 Nov 16 j 12:52	1°♎53'17	10.44465 AU
morning rise	-7670 Dec 04 j 07:18	4°♎06'48	
retrograde	-7669 Mar 20 j 16:54	12°♎04'22	
opposition	-7669 May 29 j 15:17	8°♎37'44	1°02'20
min. Earth dist.	-7669 May 30 j 02:07	8°♎35'37	8.35958 AU
direct	-7669 Aug 05 j 04:49	5°♎15'48	
evening set	-7669 Nov 13 j 09:46	12°♎54'23	
conjunction	-7669 Nov 30 j 12:59	15°♎05'18	0°34'31
minimum elong	-7669 Nov 30 j 13:01	15°♎05'18	0°34'27
max. Earth dist.	-7669 Nov 30 j 01:01	15°♎01'28	10.27824 AU
morning rise	-7669 Dec 17 j 21:42	17°♎17'59	

Attention, astronomical year style is used: The year -7668 in astronomical counting style is the year 7669 BCE in historical counting style.

retrograde	-7668 Apr 03 j 03:44	25°♌29'02	
opposition	-7668 Jun 11 j 14:10	22°♌00'32	0°21'21
min. Earth dist.	-7668 Jun 11 j 21:28	21°♌59'05	8.19736 AU
direct	-7668 Aug 17 j 11:52	18°♌37'14	
evening set	-7668 Nov 26 j 03:16	26°♌27'00	
conjunction	-7668 Dec 13 j 12:00	28°♌41'47	0°00'12
minimum elong	-7668 Dec 13 j 12:00	28°♌41'47	0°00'01
behind sun begin	-7668 Dec 13 j 10:33	28°♌41'23	
behind sun end	-7668 Dec 13 j 13:27	28°♌42'12	
max. Earth dist.	-7668 Dec 13 j 05:18	28°♌39'38	10.12288 AU
desc. node	-7668 Dec 15 j 15:29	28°♌58'34	
	-7668 Dec 23 j 12:33	0°♏	
morning rise	-7668 Dec 31 j 02:28	0°♏58'29	
retrograde	-7667 Apr 18 j 00:37	9°♏22'02	
opposition	-7667 Jun 25 j 21:38	5°♏51'51	-0°22'26
min. Earth dist.	-7667 Jun 26 j 00:31	5°♏51'16	8.05139 AU
direct	-7667 Aug 31 j 05:48	2°♏27'07	
evening set	-7667 Dec 10 j 11:49	10°♏28'09	
conjunction	-7667 Dec 28 j 01:47	12°♏46'31	-0°35'10
minimum elong	-7667 Dec 28 j 01:45	12°♏46'31	0°35'28
max. Earth dist.	-7667 Dec 28 j 01:19	12°♏46'22	9.98807 AU
morning rise	-7666 Jan 14 j 21:16	15°♏06'45	
	-7666 Jan 14 j 00:25	15°♏	
retrograde	-7666 May 03 j 04:51	23°♏40'48	
opposition	-7666 Jul 10 j 12:14	20°♏09'17	-1°06'19
min. Earth dist.	-7666 Jul 10 j 10:11	20°♏09'42	7.93094 AU
direct	-7666 Sep 14 j 10:32	16°♏43'06	
evening set	-7666 Dec 25 j 10:26	24°♏54'44	
conjunction	-7665 Jan 12 j 04:56	27°♏16'04	-1°09'12
minimum elong	-7665 Jan 12 j 04:53	27°♏16'03	1°09'36
max. Earth dist.	-7665 Jan 12 j 11:02	27°♏18'06	9.88276 AU
morning rise	-7665 Jan 30 j 04:24	29°♏39'05	
	-7665 Feb 01 j 20:40	0°♐	
retrograde	-7665 May 18 j 14:32	8°♐20'37	
opposition	-7665 Jul 25 j 08:25	4°♐48'10	-1°47'04
min. Earth dist.	-7665 Jul 25 j 01:12	4°♐49'40	7.84418 AU
direct	-7665 Sep 29 j 00:08	1°♐20'37	
evening set	-7664 Jan 09 j 20:54	9°♐41'13	
conjunction	-7664 Jan 27 j 19:00	12°♐04'39	-1°39'22
minimum elong	-7664 Jan 27 j 18:56	12°♐04'38	1°39'49
max. Earth dist.	-7664 Jan 28 j 07:13	12°♐08'45	9.81445 AU
morning rise	-7664 Feb 14 j 21:14	14°♐29'28	
retrograde	-7664 Jun 02 j 02:05	23°♐14'30	
opposition	-7664 Aug 08 j 07:34	19°♐41'39	-2°21'20
min. Earth dist.	-7664 Aug 07 j 20:01	19°♐44'04	7.79725 AU
direct	-7664 Oct 12 j 20:48	16°♐12'52	
evening set	-7663 Jan 24 j 16:07	24°♐39'55	
conjunction	-7663 Feb 11 j 16:46	27°♐04'25	-2°03'11
minimum elong	-7663 Feb 11 j 16:42	27°♐04'24	2°03'41
max. Earth dist.	-7663 Feb 12 j 10:05	27°♐10'15	9.78813 AU
morning rise	-7663 Mar 01 j 20:27	29°♐29'53	
	-7663 Mar 05 j 16:26	0°♑	
retrograde	-7663 Jun 17 j 11:36	8°♑13'47	
opposition	-7663 Aug 23 j 06:41	4°♑41'07	-2°46'11
min. Earth dist.	-7663 Aug 22 j 16:00	4°♑44'13	7.79341 AU
direct	-7663 Oct 27 j 22:14	1°♑11'19	
evening set	-7662 Feb 09 j 15:16	9°♑41'31	
conjunction	-7662 Feb 27 j 17:25	12°♑06'01	-2°18'42
minimum elong	-7662 Feb 27 j 17:23	12°♑06'00	2°19'12
max. Earth dist.	-7662 Feb 28 j 14:34	12°♑13'06	9.80565 AU
morning rise	-7662 Mar 17 j 21:20	14°♑31'00	
retrograde	-7662 Jul 02 j 15:41	23°♑09'09	
min. Earth dist.	-7662 Sep 06 j 10:26	19°♑40'45	7.83272 AU
opposition	-7662 Sep 07 j 03:07	19°♑37'14	-2°59'37
direct	-7662 Nov 12 j 02:41	16°♑06'46	
evening set	-7661 Feb 25 j 13:03	24°♑36'19	
conjunction	-7661 Mar 15 j 15:48	26°♑59'47	-2°24'51
minimum elong	-7661 Mar 15 j 15:48	26°♑59'47	2°25'19
max. Earth dist.	-7661 Mar 16 j 15:13	27°♑07'34	9.86556 AU
morning rise	-7661 Apr 02 j 18:57	29°♑23'16	
	-7661 Apr 07 j 12:43	0°♒	
retrograde	-7661 Jul 17 j 10:16	7°♒51'39	
opposition	-7661 Sep 21 j 18:04	4°♒20'58	-3°00'55
min. Earth dist.	-7661 Sep 21 j 00:31	4°♒24'39	7.91205 AU
direct	-7661 Nov 27 j 06:13	0°♒50'13	
evening set	-7660 Mar 12 j 05:07	9°♒15'30	
conjunction	-7660 Mar 30 j 07:39	11°♒37'05	-2°21'30
minimum elong	-7660 Mar 30 j 07:41	11°♒37'06	2°21'55
max. Earth dist.	-7660 Mar 31 j 07:31	11°♒44'55	9.96324 AU
morning rise	-7660 Apr 17 j 09:13	13°♒58'15	
	-7660 Apr 25 j 11:59	15°♒	
retrograde	-7660 Jul 30 j 17:02	22°♒13'48	
min. Earth dist.	-7660 Oct 04 j 07:38	18°♒48'26	8.02550 AU
opposition	-7660 Oct 05 j 01:17	18°♒44'45	-2°50'40
direct	-7660 Dec 11 j 05:29	15°♒14'10	
evening set	-7659 Mar 27 j 11:35	23°♒32'05	
conjunction	-7659 Apr 14 j 13:07	25°♒51'09	-2°09'30
minimum elong	-7659 Apr 14 j 13:11	25°♒51'10	2°09'50
max. Earth dist.	-7659 Apr 15 j 12:04	25°♒58'34	10.09161 AU
morning rise	-7659 May 02 j 12:23	28°♒09'22	
	-7659 May 17 j 11:21	0°♓	
retrograde	-7659 Aug 13 j 11:23	6°♓10'23	
opposition	-7659 Oct 18 j 23:39	2°♓43'16	-2°30'29
min. Earth dist.	-7659 Oct 18 j 06:28	2°♓46'48	8.16528 AU
	-7659 Nov 26 j 03:42	30°R♒	
direct	-7659 Dec 25 j 21:34	29°♒13'16	
	-7658 Jan 24 j 13:36	0°♓	
evening set	-7658 Apr 11 j 05:38	7°♓21'31	
conjunction	-7658 Apr 29 j 05:24	9°♓37'37	-1°50'18
minimum elong	-7658 Apr 29 j 05:28	9°♓37'38	1°50'32
max. Earth dist.	-7658 Apr 30 j 02:39	9°♓44'21	10.24212 AU
morning rise	-7658 May 17 j 01:41	11°♓52'30	
retrograde	-7658 Aug 26 j 18:42	19°♓38'32	
opposition	-7658 Nov 01 j 12:25	16°♓13'28	-2°02'33
min. Earth dist.	-7658 Oct 31 j 20:28	16°♓16'41	8.32266 AU
direct	-7657 Jan 09 j 03:34	12°♓44'26	
evening set	-7657 Apr 25 j 10:12	20°♓41'44	
conjunction	-7657 May 13 j 07:28	22°♓54'35	-1°25'42
minimum elong	-7657 May 13 j 07:32	22°♓54'36	1°25'50
max. Earth dist.	-7657 May 14 j 02:11	23°♓00'25	10.40571 AU
morning rise	-7657 May 31 j 00:14	25°♓05'59	
	-7657 Jul 15 j 05:46	0°♈	
retrograde	-7657 Sep 08 j 14:50	2°♈37'30	
	-7657 Nov 05 j 01:20	30°R♓	
opposition	-7657 Nov 14 j 15:31	29°♓14'33	-1°29'17
min. Earth dist.	-7657 Nov 14 j 02:02	29°♓17'14	8.48878 AU
direct	-7656 Jan 22 j 23:56	25°♓46'43	
	-7656 Apr 06 j 10:41	0°♈	
evening set	-7656 May 08 j 01:07	3°♈32'43	
conjunction	-7656 May 25 j 19:06	5°♈42'12	-0°57'33
minimum elong	-7656 May 25 j 19:09	5°♈42'13	0°57'34
max. Earth dist.	-7656 May 26 j 10:17	5°♈46'51	10.57342 AU

Attention, astronomical year style is used: The year -7656 in astronomical counting style is the year 7657 BCE in historical counting style.

morning rise	-7656 Jun 12 j 07:53	7°♈50'07	
retrograde	-7656 Sep 19 j 23:21	15°♈08'23	
opposition	-7656 Nov 26 j 09:47	11°♈47'30	-0°52'58
min. Earth dist.	-7656 Nov 25 j 23:57	11°♈49'25	8.65506 AU
direct	-7655 Feb 04 j 10:48	8°♈21'03	
evening set	-7655 May 21 j 02:50	15°♈56'00	
conjunction	-7655 Jun 07 j 16:46	18°♈02'09	-0°27'35
minimum elong	-7655 Jun 07 j 16:47	18°♈02'10	0°27'29
max. Earth dist.	-7655 Jun 08 j 03:05	18°♈05'15	10.73695 AU
morning rise	-7655 Jun 25 j 01:20	20°♈06'42	
retrograde	-7655 Oct 01 j 23:14	27°♈13'30	
opposition	-7655 Dec 08 j 20:00	23°♈54'29	-0°15'36
min. Earth dist.	-7655 Dec 08 j 13:47	23°♈55'41	8.81378 AU
direct	-7654 Feb 17 j 11:42	20°♈29'31	
asc. node	-7654 May 16 j 13:03	25°♈58'25	
evening set	-7654 Jun 02 j 16:25	27°♈54'11	
conjunction	-7654 Jun 20 j 01:55	29°♈57'12	0°02'48
minimum elong	-7654 Jun 20 j 01:53	29°♈57'12	0°03'00
behind sun begin	-7654 Jun 19 j 18:48	29°♈55'07	
behind sun end	-7654 Jun 20 j 08:59	29°♈59'16	
max. Earth dist.	-7654 Jun 20 j 07:00	29°♈58'41	10.88918 AU
	-7654 Jun 20 j 11:25	0°♉	
morning rise	-7654 Jul 07 j 06:07	1°♉58'38	
retrograde	-7654 Oct 13 j 14:09	8°♉55'58	
opposition	-7654 Dec 20 j 23:05	5°♉38'31	0°21'09
min. Earth dist.	-7654 Dec 20 j 20:03	5°♉39'05	8.95822 AU
direct	-7653 Mar 02 j 03:30	2°♉14'59	
evening set	-7653 Jun 14 j 19:05	9°♉30'32	
conjunction	-7653 Jul 02 j 00:02	11°♉30'40	0°32'07
minimum elong	-7653 Jul 02 j 00:01	11°♉30'40	0°32'25
max. Earth dist.	-7653 Jul 02 j 00:48	11°♉30'54	11.02386 AU
morning rise	-7653 Jul 18 j 23:49	13°♉29'19	
	-7653 Aug 01 j 11:47	15°♉	
retrograde	-7653 Oct 25 j 01:03	20°♉19'20	
opposition	-7652 Jan 01 j 20:28	17°♉03'08	0°55'57
min. Earth dist.	-7652 Jan 01 j 20:41	17°♉03'06	9.08248 AU
	-7652 Jan 31 j 11:01	15°℞♉	
direct	-7652 Mar 13 j 11:39	13°♉40'58	
	-7652 Apr 23 j 19:50	15°♉	
evening set	-7652 Jun 25 j 12:40	20°♉48'45	
conjunction	-7652 Jul 12 j 13:01	22°♉46'22	0°59'34
minimum elong	-7652 Jul 12 j 12:59	22°♉46'21	0°59'56
max. Earth dist.	-7652 Jul 12 j 10:05	22°♉45'31	11.13563 AU
morning rise	-7652 Jul 29 j 08:21	24°♉42'37	
	-7652 Sep 23 j 02:18	0°♊	
retrograde	-7652 Nov 04 j 08:22	1°♊27'25	
	-7652 Dec 17 j 18:54	30°℞♉	
opposition	-7651 Jan 12 j 13:36	28°♉12'10	1°27'48
min. Earth dist.	-7651 Jan 12 j 18:04	28°♉11'20	9.18178 AU
direct	-7651 Mar 25 j 10:11	24°♉51'12	
	-7651 Jun 19 j 17:30	0°♊	
evening set	-7651 Jul 06 j 22:47	1°♊52'43	
conjunction	-7651 Jul 23 j 18:36	3°♊48'16	1°24'16
minimum elong	-7651 Jul 23 j 18:33	3°♊48'15	1°24'43
max. Earth dist.	-7651 Jul 23 j 10:45	3°♊46'00	11.22032 AU
morning rise	-7651 Aug 09 j 10:01	5°♊42'37	
retrograde	-7651 Nov 15 j 11:04	12°♊24'23	
opposition	-7650 Jan 24 j 03:55	9°♊09'42	1°55'51
min. Earth dist.	-7650 Jan 24 j 12:42	9°♊08'05	9.25239 AU
direct	-7650 Apr 06 j 04:32	5°♊49'44	
evening set	-7650 Jul 18 j 02:58	12°♊46'40	

conjunction	-7650 Aug 03 j 18:39	14°♊40'37	1°45'36
minimum elong	-7650 Aug 03 j 18:36	14°♊40'36	1°46'05
max. Earth dist.	-7650 Aug 03 j 06:01	14°♊36'59	11.27493 AU
morning rise	-7650 Aug 20 j 06:50	16°♊33'36	
retrograde	-7650 Nov 26 j 14:53	23°♊14'29	
opposition	-7649 Feb 04 j 16:38	19°♊59'59	2°19'27
min. Earth dist.	-7649 Feb 05 j 04:30	19°♊57'50	9.29189 AU
direct	-7649 Apr 17 j 19:07	16°♊40'51	
evening set	-7649 Jul 29 j 03:12	23°♊34'49	
conjunction	-7649 Aug 14 j 15:31	25°♊27'43	2°03'00
minimum elong	-7649 Aug 14 j 15:29	25°♊27'42	2°03'30
max. Earth dist.	-7649 Aug 14 j 00:06	25°♊23'17	11.29800 AU
morning rise	-7649 Aug 31 j 00:55	27°♊19'52	
	-7649 Sep 25 j 02:42	0°♋	
retrograde	-7649 Dec 07 j 19:40	4°♋01'53	
opposition	-7648 Feb 16 j 05:16	0°♋47'11	2°38'04
min. Earth dist.	-7648 Feb 16 j 19:24	0°♋44'37	9.29951 AU
	-7648 Feb 27 j 04:04	30°℞♊	
direct	-7648 Apr 28 j 05:34	27°♊28'39	
	-7648 Jun 25 j 10:25	0°♋	
evening set	-7648 Aug 08 j 01:10	4°♋21'11	
conjunction	-7648 Aug 24 j 10:51	6°♋13'35	2°16'01
minimum elong	-7648 Aug 24 j 10:49	6°♋13'35	2°16'32
max. Earth dist.	-7648 Aug 23 j 17:09	6°♋08'30	11.28944 AU
morning rise	-7648 Sep 09 j 18:18	8°♋05'28	
retrograde	-7648 Dec 18 j 04:19	14°♋50'31	
opposition	-7647 Feb 26 j 19:35	11°♋35'17	2°51'10
min. Earth dist.	-7647 Feb 27 j 12:10	11°♋32'16	9.27564 AU
direct	-7647 May 09 j 14:53	8°♋17'04	
evening set	-7647 Aug 18 j 22:29	15°♋09'39	
max. Earth dist.	-7647 Sep 03 j 09:43	16°♋56'11	11.25003 AU
conjunction	-7647 Sep 04 j 06:16	17°♋02'08	2°24'15
minimum elong	-7647 Sep 04 j 06:15	17°♋02'08	2°24'46
morning rise	-7647 Sep 20 j 12:57	18°♋54'23	
retrograde	-7647 Dec 29 j 14:55	25°♋44'16	
opposition	-7646 Mar 10 j 12:35	22°♋28'06	2°58'19
min. Earth dist.	-7646 Mar 11 j 07:32	22°♋24'39	9.22132 AU
direct	-7646 May 20 j 23:34	19°♋09'57	
evening set	-7646 Aug 29 j 20:58	26°♋04'08	
max. Earth dist.	-7646 Sep 14 j 05:54	27°♋50'51	11.18117 AU
conjunction	-7646 Sep 15 j 03:58	27°♋57'17	2°27'21
minimum elong	-7646 Sep 15 j 03:58	27°♋57'17	2°27'50
morning rise	-7646 Oct 01 j 10:56	29°♋50'29	
	-7646 Oct 02 j 20:22	0°♌	
retrograde	-7645 Jan 10 j 08:52	6°♌46'58	
opposition	-7645 Mar 22 j 09:15	3°♌29'33	2°59'06
min. Earth dist.	-7645 Mar 23 j 04:56	3°♌25'57	9.13827 AU
direct	-7645 Jun 01 j 11:53	0°♌11'13	
evening set	-7645 Sep 09 j 22:16	7°♌08'29	
max. Earth dist.	-7645 Sep 25 j 07:52	8°♌56'29	11.08496 AU
conjunction	-7645 Sep 26 j 05:45	9°♌02'56	2°25'00
minimum elong	-7645 Sep 26 j 05:46	9°♌02'56	2°25'27
morning rise	-7645 Oct 12 j 13:55	10°♌57'42	
	-7645 Nov 20 j 03:44	15°♌	
retrograde	-7644 Jan 22 j 10:15	18°♌02'29	
	-7644 Mar 29 j 17:58	15°℞♌	
opposition	-7644 Apr 02 j 11:18	14°♌43'33	2°53'10
min. Earth dist.	-7644 Apr 03 j 06:27	14°♌40'02	9.02911 AU
direct	-7644 Jun 12 j 01:19	11°♌24'52	
	-7644 Aug 19 j 08:03	15°♌	
evening set	-7644 Sep 20 j 04:18	18°♌26'39	

Attention, astronomical year style is used: The year -7644 in astronomical counting style is the year 7645 BCE in historical counting style.

conjunction	-7644 Oct 06 j 13:16	20°♌23'00	2°17'00	
minimum elong	-7644 Oct 06 j 13:19	20°♌23'01	2°17'23	
max. Earth dist.	-7644 Oct 05 j 15:45	20°♌16'35	10.96456 AU	
morning rise	-7644 Oct 22 j 23:52	22°♌19'58		
retrograde	-7643 Feb 02 j 20:31	29°♌34'40		
opposition	-7643 Apr 14 j 19:52	26°♌14'01	2°40'13	
min. Earth dist.	-7643 Apr 15 j 14:15	26°♌10'35	8.89756 AU	
direct	-7643 Jun 23 j 19:25	22°♌54'45		
evening set	-7643 Oct 01 j 17:15	0°♍02'33		
	-7643 Oct 01 j 08:40	0°♍		
max. Earth dist.	-7643 Oct 17 j 07:23	1°♍54'57	10.82419 AU	
conjunction	-7643 Oct 18 j 04:44	2°♍01'24	2°03'14	
minimum elong	-7643 Oct 18 j 04:47	2°♍01'25	2°03'31	
morning rise	-7643 Nov 03 j 19:03	4°♍01'12		
retrograde	-7642 Feb 15 j 16:45	11°♍27'09		
opposition	-7642 Apr 27 j 11:45	8°♍04'40	2°20'09	
min. Earth dist.	-7642 Apr 28 j 05:20	8°♍01'21	8.74838 AU	
direct	-7642 Jul 05 j 18:58	4°♍44'39		
evening set	-7642 Oct 13 j 14:52	11°♍59'55		
max. Earth dist.	-7642 Oct 29 j 10:26	13°♍55'48	10.66899 AU	
conjunction	-7642 Oct 30 j 06:00	14°♍01'50	1°43'45	
minimum elong	-7642 Oct 30 j 06:04	14°♍01'51	1°43'56	
morning rise	-7642 Nov 16 j 00:58	16°♍04'58		
retrograde	-7641 Feb 28 j 22:01	23°♍43'24		
opposition	-7641 May 10 j 12:04	20°♍18'59	1°53'05	
min. Earth dist.	-7641 May 11 j 03:36	20°♍16'01	8.58735 AU	
direct	-7641 Jul 18 j 02:58	16°♍58'03		
evening set	-7641 Oct 25 j 22:59	24°♍22'07		
conjunction	-7641 Nov 11 j 18:44	26°♍27'33	1°18'52	
minimum elong	-7641 Nov 11 j 18:48	26°♍27'34	1°18'57	
max. Earth dist.	-7641 Nov 11 j 02:48	26°♍22'34	10.50514 AU	
morning rise	-7641 Nov 28 j 18:56	28°♍34'27		
	-7641 Dec 10 j 15:29	0°♎		
retrograde	-7640 Mar 13 j 16:17	6°♎26'12		
opposition	-7640 May 22 j 21:25	2°♎59'50	1°19'32	
min. Earth dist.	-7640 May 23 j 09:24	2°♎57'30	8.42144 AU	
	-7640 Jul 09 j 09:19	30°℞♍		
direct	-7640 Jul 29 j 20:17	29°♍37'53		
	-7640 Aug 18 j 23:17	0°♎		
evening set	-7640 Nov 06 j 19:48	7°♎11'53		
conjunction	-7640 Nov 23 j 20:45	9°♎21'08	0°49'16	
minimum elong	-7640 Nov 23 j 20:47	9°♎21'09	0°49'15	
max. Earth dist.	-7640 Nov 23 j 09:00	9°♎17'24	10.34016 AU	
morning rise	-7640 Dec 11 j 02:40	11°♎32'04		
retrograde	-7639 Mar 27 j 23:02	19°♎37'20		
opposition	-7639 Jun 05 j 15:56	16°♎09'08	0°40'29	
min. Earth dist.	-7639 Jun 05 j 23:31	16°♎07'38	8.25880 AU	
direct	-7639 Aug 11 j 21:30	12°♎46'03		
evening set	-7639 Nov 20 j 06:40	20°♎30'53		
conjunction	-7639 Dec 07 j 13:00	22°♎44'01	0°16'05	
minimum elong	-7639 Dec 07 j 13:01	22°♎44'02	0°15'57	
behind sun begin	-7639 Dec 07 j 12:09	22°♎43'45		
behind sun end	-7639 Dec 07 j 13:52	22°♎44'18		
max. Earth dist.	-7639 Dec 07 j 05:36	22°♎41'39	10.18253 AU	
morning rise	-7639 Dec 25 j 00:46	24°♎59'00		
	-7638 Feb 07 j 00:48	0°♏		
retrograde	-7638 Apr 11 j 16:35	3°♏17'15		
desc. node	-7638 May 30 j 19:05	1°♏20'30		
	-7638 Jun 17 j 04:59	30°℞♎		
opposition	-7638 Jun 19 j 19:30	29°♎47'26	-0°02'20	
min. Earth dist.	-7638 Jun 19 j 22:43	29°♎46'47	8.10830 AU	
direct	-7638 Aug 25 j 09:00	26°♎23'07		
	-7638 Oct 28 j 17:27	0°♏		
evening set	-7638 Dec 04 j 08:21	4°♏19'13		
conjunction	-7638 Dec 21 j 19:52	6°♏36'03	-0°19'07	
minimum elong	-7638 Dec 21 j 19:51	6°♏36'03	0°19'22	
max. Earth dist.	-7638 Dec 21 j 17:29	6°♏35'17	10.04130 AU	
morning rise	-7637 Jan 08 j 13:06	8°♏54'47		
	-7637 Mar 04 j 07:35	15°♏		
retrograde	-7637 Apr 26 j 17:59	17°♏24'32		
	-7637 Jun 20 j 11:08	15°℞♏		
opposition	-7637 Jul 04 j 07:09	13°♏53'26	-0°46'34	
min. Earth dist.	-7637 Jul 04 j 05:58	13°♏53'40	7.97920 AU	
direct	-7637 Sep 08 j 08:53	10°♏27'52		
	-7637 Nov 19 j 18:49	15°♏		
evening set	-7637 Dec 19 j 00:41	18°♏34'55		
conjunction	-7636 Jan 05 j 16:59	20°♏55'00	-0°54'03	
minimum elong	-7636 Jan 05 j 16:56	20°♏54'59	0°54'25	
max. Earth dist.	-7636 Jan 05 j 20:17	20°♏56'06	9.92571 AU	
morning rise	-7636 Jan 23 j 14:50	23°♏16'52		
	-7636 Mar 25 j 00:15	0°♐		
retrograde	-7636 May 11 j 01:47	1°♐55'33		
	-7636 Jun 27 j 20:24	30°℞♏		
opposition	-7636 Jul 18 j 01:17	28°♏23'34	-1°29'10	
min. Earth dist.	-7636 Jul 17 j 19:50	28°♏24'41	7.88035 AU	
direct	-7636 Sep 21 j 18:31	24°♏56'47		
	-7636 Dec 07 j 09:55	0°♐		
evening set	-7635 Jan 02 j 06:14	3°♐13'37		
conjunction	-7635 Jan 20 j 02:37	5°♐36'11	-1°26'18	
minimum elong	-7635 Jan 20 j 02:33	5°♐36'10	1°26'45	
max. Earth dist.	-7635 Jan 20 j 12:03	5°♐39'21	9.84397 AU	
morning rise	-7635 Feb 07 j 03:52	8°♐00'18		
retrograde	-7635 May 26 j 13:02	16°♐44'18		
opposition	-7635 Aug 01 j 23:37	13°♐11'54	-2°06'45	
min. Earth dist.	-7635 Aug 01 j 13:58	13°♐13'54	7.81885 AU	
direct	-7635 Oct 06 j 12:41	9°♐43'59		
evening set	-7634 Jan 17 j 22:13	18°♐08'27		
conjunction	-7634 Feb 04 j 21:39	20°♐32'31	-1°53'16	
minimum elong	-7634 Feb 04 j 21:35	20°♐32'30	1°53'46	
max. Earth dist.	-7634 Feb 05 j 12:59	20°♐37'40	9.80221 AU	
morning rise	-7634 Feb 23 j 00:52	22°♐57'46		
	-7634 Apr 28 j 09:48	0°♑		
retrograde	-7634 Jun 10 j 23:43	1°♑42'38		
	-7634 Jul 25 j 01:56	30°℞♐		
opposition	-7634 Aug 16 j 23:14	28°♐10'20	-2°36'09	
min. Earth dist.	-7634 Aug 16 j 09:40	28°♐13'11	7.79928 AU	
direct	-7634 Oct 21 j 12:55	24°♐41'29		
	-7633 Jan 08 j 13:19	0°♑		
evening set	-7633 Feb 02 j 20:12	3°♑10'29		
conjunction	-7633 Feb 20 j 21:41	5°♑34'58	-2°12'43	
minimum elong	-7633 Feb 20 j 21:38	5°♑34'57	2°13'14	
max. Earth dist.	-7633 Feb 21 j 17:59	5°♑41'47	9.80376 AU	
morning rise	-7633 Mar 11 j 01:35	8°♑00'11		
retrograde	-7633 Jun 26 j 06:26	16°♑41'14		
opposition	-7633 Aug 31 j 21:18	13°♑09'30	-2°54'51	
min. Earth dist.	-7633 Aug 31 j 04:38	13°♑13'00	7.82296 AU	
direct	-7633 Nov 05 j 16:53	9°♑39'56		
evening set	-7632 Feb 18 j 19:10	18°♑09'46		
conjunction	-7632 Mar 07 j 21:45	20°♑33'39	-2°23'09	
minimum elong	-7632 Mar 07 j 21:44	20°♑33'38	2°23'39	
max. Earth dist.	-7632 Mar 08 j 21:23	20°♑41'31	9.84815 AU	
morning rise	-7632 Mar 26 j 01:16	22°♑57'45		
	-7632 May 30 j 15:16	0°♒		

Attention, astronomical year style is used: The year -7632 in astronomical counting style is the year 7633 BCE in historical counting style.

retrograde	-7632 Jul 10 j 05:33	1°♒30'33	
	-7632 Aug 20 j 04:47	30°℞♑	
opposition	-7632 Sep 14 j 14:52	27°♑59'51	-3°01'37
min. Earth dist.	-7632 Sep 13 j 20:31	28°♑03'42	7.88722 AU
direct	-7632 Nov 19 j 21:02	24°♑29'51	
	-7631 Feb 09 j 19:14	0°♒	
evening set	-7631 Mar 05 j 14:24	2°♒56'51	
conjunction	-7631 Mar 23 j 17:10	5°♒19'12	-2°24'03
minimum elong	-7631 Mar 23 j 17:11	5°♒19'12	2°24'29
max. Earth dist.	-7631 Mar 24 j 18:00	5°♒27'23	9.93082 AU
morning rise	-7631 Apr 10 j 19:20	7°♒41'17	
	-7631 Jun 21 j 05:45	15°♒	
retrograde	-7631 Jul 24 j 18:00	16°♒02'26	
	-7631 Aug 27 j 10:55	15°℞♒	
min. Earth dist.	-7631 Sep 28 j 07:13	12°♒37'02	7.98597 AU
opposition	-7631 Sep 29 j 01:35	12°♒33'12	-2°56'26
direct	-7631 Dec 04 j 21:37	9°♒03'08	
	-7630 Mar 01 j 13:40	15°♒	
evening set	-7630 Mar 21 j 01:30	17°♒24'10	
conjunction	-7630 Apr 08 j 03:37	19°♒44'17	-2°15'48
minimum elong	-7630 Apr 08 j 03:40	19°♒44'18	2°16'10
max. Earth dist.	-7630 Apr 09 j 03:44	19°♒52'07	10.04465 AU
morning rise	-7630 Apr 26 j 03:46	22°♒03'43	
	-7630 Jul 24 j 18:20	0°♓	
retrograde	-7630 Aug 07 j 19:09	0°♓11'10	
	-7630 Aug 21 j 20:02	30°℞♒	
min. Earth dist.	-7630 Oct 12 j 11:06	26°♒47'14	8.11194 AU
opposition	-7630 Oct 13 j 04:09	26°♒43'43	-2°40'29
direct	-7630 Dec 19 j 16:09	23°♒13'59	
	-7629 Mar 24 j 08:05	0°♓	
evening set	-7629 Apr 05 j 01:26	1°♓26'32	
conjunction	-7629 Apr 23 j 02:06	3°♓43'57	-1°59'38
minimum elong	-7629 Apr 23 j 02:10	3°♓43'58	1°59'54
max. Earth dist.	-7629 Apr 23 j 23:53	3°♓50'54	10.18227 AU
morning rise	-7629 May 10 j 23:42	6°♓00'17	
retrograde	-7629 Aug 21 j 08:21	13°♓53'05	
opposition	-7629 Oct 26 j 21:31	10°♓27'34	-2°15'46
min. Earth dist.	-7629 Oct 26 j 06:28	10°♓30'37	8.25787 AU
direct	-7628 Jan 03 j 02:51	6°♓58'29	
evening set	-7628 Apr 18 j 12:42	15°♓00'53	
conjunction	-7628 May 06 j 11:08	17°♓15'12	-1°37'13
minimum elong	-7628 May 06 j 11:12	17°♓15'14	1°37'23
max. Earth dist.	-7628 May 07 j 05:23	17°♓20'56	10.33600 AU
morning rise	-7628 May 24 j 05:37	19°♓28'12	
retrograde	-7628 Sep 02 j 08:47	27°♓06'19	
opposition	-7628 Nov 08 j 05:17	23°♓42'46	-1°44'37
min. Earth dist.	-7628 Nov 07 j 16:31	23°♓45'20	8.41588 AU
direct	-7627 Jan 16 j 05:35	20°♓14'36	
evening set	-7627 May 02 j 10:20	28°♓05'59	
	-7627 May 17 j 22:37	0°♈	
conjunction	-7627 May 20 j 05:48	0°♈17'02	-1°10'25
minimum elong	-7627 May 20 j 05:51	0°♈17'03	1°10'28
max. Earth dist.	-7627 May 20 j 20:07	0°♈21'27	10.49754 AU
morning rise	-7627 Jun 06 j 20:38	2°♈26'36	
retrograde	-7627 Sep 14 j 21:30	9°♈50'58	
opposition	-7627 Nov 21 j 03:55	6°♈29'18	-1°09'24
min. Earth dist.	-7627 Nov 20 j 17:18	6°♈31'23	8.57773 AU
direct	-7626 Jan 29 j 22:29	3°♈02'15	
evening set	-7626 May 15 j 18:11	10°♈42'28	
conjunction	-7626 Jun 02 j 10:05	12°♈50'13	-0°41'03
minimum elong	-7626 Jun 02 j 10:07	12°♈50'14	0°41'00
max. Earth dist.	-7626 Jun 02 j 20:49	12°♈53'28	10.65866 AU
morning rise	-7626 Jun 19 j 20:46	14°♈56'22	
retrograde	-7626 Sep 27 j 02:11	22°♈08'34	
opposition	-7626 Dec 03 j 17:57	18°♈48'36	-0°32'15
min. Earth dist.	-7626 Dec 03 j 10:14	18°♈50'06	8.73554 AU
direct	-7625 Feb 12 j 03:56	15°♈22'48	
evening set	-7625 May 28 j 13:26	22°♈52'24	
conjunction	-7625 Jun 15 j 01:15	24°♈56'57	-0°10'44
minimum elong	-7625 Jun 15 j 01:15	24°♈56'58	0°10'35
behind sun begin	-7625 Jun 14 j 19:44	24°♈55'20	
behind sun end	-7625 Jun 15 j 06:47	24°♈58'36	
max. Earth dist.	-7625 Jun 15 j 08:19	24°♈59'03	10.81183 AU
morning rise	-7625 Jul 02 j 07:29	26°♈59'54	
	-7625 Jul 29 j 12:55	0°♉	
retrograde	-7625 Oct 08 j 21:55	4°♉01'42	
asc. node	-7625 Oct 26 j 12:58	3°♉45'33	
opposition	-7625 Dec 16 j 00:20	0°♉43'17	0°04'59
min. Earth dist.	-7625 Dec 15 j 20:33	0°♉44'00	8.88236 AU
	-7625 Dec 25 j 12:39	30°℞♈	
direct	-7624 Feb 24 j 22:46	27°♈18'45	
	-7624 Apr 24 j 14:03	0°♉	
evening set	-7624 Jun 08 j 21:19	4°♉38'45	
conjunction	-7624 Jun 26 j 04:32	6°♉40'20	0°19'16
minimum elong	-7624 Jun 26 j 04:31	6°♉40'19	0°19'31
max. Earth dist.	-7624 Jun 26 j 06:50	6°♉41'00	10.95058 AU
morning rise	-7624 Jul 13 j 06:19	8°♉40'22	
	-7624 Sep 23 j 17:46	15°♉	
retrograde	-7624 Oct 19 j 10:10	15°♉33'53	
	-7624 Nov 14 j 10:29	15°℞♉	
opposition	-7624 Dec 27 j 00:33	12°♉16'45	0°40'50
min. Earth dist.	-7624 Dec 27 j 00:53	12°♉16'41	9.01231 AU
direct	-7623 Mar 08 j 10:53	8°♉53'27	
	-7623 Jun 11 j 03:04	15°♉	
evening set	-7623 Jun 20 j 19:04	16°♉05'07	
conjunction	-7623 Jul 07 j 21:29	18°♉04'01	0°47'42
minimum elong	-7623 Jul 07 j 21:27	18°♉04'00	0°48'02
max. Earth dist.	-7623 Jul 07 j 18:43	18°♉03'12	11.06976 AU
morning rise	-7623 Jul 24 j 19:00	20°♉01'30	
retrograde	-7623 Oct 30 j 17:48	26°♉48'55	
opposition	-7622 Jan 07 j 19:44	23°♉32'44	1°14'10
min. Earth dist.	-7622 Jan 07 j 23:09	23°♉32'06	9.12067 AU
direct	-7622 Mar 20 j 14:34	20°♉10'39	
evening set	-7622 Jul 02 j 08:29	27°♉15'25	
conjunction	-7622 Jul 19 j 06:23	29°♉12'02	1°13'44
minimum elong	-7622 Jul 19 j 06:21	29°♉12'01	1°14'09
max. Earth dist.	-7622 Jul 18 j 23:58	29°♉10'11	11.16531 AU
	-7622 Jul 26 j 04:12	0°♊	
morning rise	-7622 Aug 04 j 23:46	1°♊07'24	
retrograde	-7622 Nov 10 j 22:55	7°♊50'51	
opposition	-7621 Jan 19 j 11:08	4°♊35'20	1°44'02
min. Earth dist.	-7621 Jan 19 j 17:18	4°♊34'12	9.20378 AU
direct	-7621 Apr 01 j 11:55	1°♊14'20	
evening set	-7621 Jul 13 j 15:16	8°♊13'45	
conjunction	-7621 Jul 30 j 09:02	10°♊08'33	1°36'40
minimum elong	-7621 Jul 30 j 08:59	10°♊08'32	1°37'08
max. Earth dist.	-7621 Jul 29 j 23:39	10°♊05'51	11.23413 AU
morning rise	-7621 Aug 15 j 22:37	12°♊02'16	
retrograde	-7621 Nov 22 j 03:29	18°♊43'48	
opposition	-7620 Jan 31 j 00:33	15°♊28'41	2°09'43
min. Earth dist.	-7620 Jan 31 j 10:00	15°♊26'57	9.25900 AU
direct	-7620 Apr 12 j 02:46	12°♊08'40	
evening set	-7620 Jul 23 j 17:16	19°♊04'15	

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

conjunction	-7620 Aug 09 j 07:08	20°♊57'44	1°55'53
minimum elong	-7620 Aug 09 j 07:05	20°♊57'43	1°56'23
max. Earth dist.	-7620 Aug 08 j 18:04	20°♊53'59	11.27416 AU
morning rise	-7620 Aug 25 j 17:42	22°♊50'20	
retrograde	-7620 Dec 02 j 06:18	29°♊31'59	
opposition	-7619 Feb 10 j 13:23	26°♊16'57	2°30'37
min. Earth dist.	-7619 Feb 11 j 02:16	26°♊14'36	9.28474 AU
direct	-7619 Apr 23 j 14:02	22°♊57'43	
evening set	-7619 Aug 03 j 16:09	29°♊51'06	
	-7619 Aug 04 j 23:47	0°♋	
max. Earth dist.	-7619 Aug 19 j 10:25	1°♋39'02	11.28439 AU
conjunction	-7619 Aug 20 j 02:51	1°♋43'45	2°10'54
minimum elong	-7619 Aug 20 j 02:48	1°♋43'44	2°11'24
morning rise	-7619 Sep 05 j 11:15	3°♋35'49	
retrograde	-7619 Dec 13 j 13:02	10°♋19'31	
opposition	-7618 Feb 22 j 02:47	7°♋04'14	2°46'11
min. Earth dist.	-7618 Feb 22 j 17:44	7°♋01'31	9.28021 AU
direct	-7618 May 05 j 01:12	3°♋45'36	
evening set	-7618 Aug 14 j 13:26	10°♋38'16	
conjunction	-7618 Aug 30 j 22:02	12°♋30'43	2°21'17
minimum elong	-7618 Aug 30 j 22:01	12°♋30'42	2°21'47
max. Earth dist.	-7618 Aug 30 j 04:07	12°♋25'32	11.26438 AU
morning rise	-7618 Sep 16 j 05:02	14°♋22'47	
retrograde	-7618 Dec 24 j 22:48	21°♋10'26	
opposition	-7617 Mar 05 j 18:13	17°♋54'33	2°55'58
min. Earth dist.	-7617 Mar 06 j 10:17	17°♋51'38	9.24531 AU
direct	-7617 May 16 j 09:46	14°♋36'21	
evening set	-7617 Aug 25 j 11:11	21°♋29'48	
conjunction	-7617 Sep 10 j 18:34	23°♋22'36	2°26'39
minimum elong	-7617 Sep 10 j 18:33	23°♋22'35	2°27'09
max. Earth dist.	-7617 Sep 09 j 23:28	23°♋17'03	11.21454 AU
morning rise	-7617 Sep 27 j 01:07	25°♋15'17	
	-7617 Nov 13 j 22:44	0°♌	
retrograde	-7616 Jan 05 j 15:13	2°♌08'38	
	-7616 Feb 29 j 15:20	30°℞♋	
opposition	-7616 Mar 16 j 13:09	28°♋51'55	2°59'33
min. Earth dist.	-7616 Mar 17 j 06:36	28°♋48'44	9.18102 AU
direct	-7616 May 26 j 19:45	25°♋33'52	
	-7616 Aug 12 j 15:20	0°♌	
evening set	-7616 Sep 04 j 11:10	2°♌29'34	
conjunction	-7616 Sep 20 j 18:13	4°♌23'20	2°26'42
minimum elong	-7616 Sep 20 j 18:14	4°♌23'21	2°27'10
max. Earth dist.	-7616 Sep 19 j 21:22	4°♌17'14	11.13650 AU
morning rise	-7616 Oct 07 j 01:40	6°♌17'18	
retrograde	-7615 Jan 16 j 11:55	13°♌18'02	
opposition	-7615 Mar 28 j 12:54	10°♌00'09	2°56'32
min. Earth dist.	-7615 Mar 29 j 07:30	9°♌56'44	9.08943 AU
direct	-7615 Jun 07 j 06:39	6°♌42'01	
evening set	-7615 Sep 15 j 14:56	13°♌41'27	
	-7615 Sep 26 j 18:46	15°♌	
conjunction	-7615 Oct 01 j 22:56	15°♌36'47	2°21'10
minimum elong	-7615 Oct 01 j 22:58	15°♌36'47	2°21'35
max. Earth dist.	-7615 Oct 01 j 01:39	15°♌30'28	11.03269 AU
morning rise	-7615 Oct 18 j 08:24	17°♌32'36	
retrograde	-7614 Jan 28 j 17:20	24°♌42'22	
opposition	-7614 Apr 09 j 18:23	21°♌23'01	2°46'38
min. Earth dist.	-7614 Apr 10 j 12:56	21°♌19'36	8.97335 AU
direct	-7614 Jun 19 j 00:22	18°♌04'34	
evening set	-7614 Sep 27 j 00:34	25°♌09'10	
conjunction	-7614 Oct 13 j 10:45	27°♌06'41	2°09'55
minimum elong	-7614 Oct 13 j 10:48	27°♌06'42	2°10'14
max. Earth dist.	-7614 Oct 12 j 14:48	27°♌00'41	10.90625 AU
morning rise	-7614 Oct 29 j 23:11	29°♌04'58	
	-7614 Nov 06 j 20:38	0°♍	
retrograde	-7613 Feb 10 j 09:30	6°♍25'11	
opposition	-7613 Apr 22 j 06:34	3°♍04'09	2°29'41
min. Earth dist.	-7613 Apr 22 j 23:32	3°♍00'59	8.83649 AU
	-7613 Jun 13 j 15:57	30°℞♌	
direct	-7613 Jun 30 j 21:58	29°♌45'08	
	-7613 Jul 17 j 21:53	0°♍	
evening set	-7613 Oct 08 j 17:54	6°♍56'17	
conjunction	-7613 Oct 25 j 07:17	8°♍56'33	1°52'55
minimum elong	-7613 Oct 25 j 07:21	8°♍56'34	1°53'08
max. Earth dist.	-7613 Oct 24 j 12:35	8°♍50'51	10.76134 AU
morning rise	-7613 Nov 10 j 23:45	10°♍57'53	
retrograde	-7612 Feb 23 j 10:57	18°♍29'48	
opposition	-7612 May 04 j 02:48	15°♍06'55	2°05'40
min. Earth dist.	-7612 May 04 j 17:57	15°♍04'03	8.68351 AU
direct	-7612 Jul 12 j 00:41	11°♍47'07	
evening set	-7612 Oct 19 j 20:49	19°♍06'12	
conjunction	-7612 Nov 05 j 14:14	21°♍09'43	1°30'23
minimum elong	-7612 Nov 05 j 14:17	21°♍09'44	1°30'30
max. Earth dist.	-7612 Nov 04 j 20:44	21°♍04'18	10.60304 AU
morning rise	-7612 Nov 22 j 11:48	23°♍14'36	
	-7611 Feb 01 j 07:20	0°♎	
retrograde	-7611 Mar 07 j 23:30	0°♎59'17	
	-7611 Apr 12 j 03:25	30°℞♍	
opposition	-7611 May 17 j 07:39	27°♍34'29	1°34'57
min. Earth dist.	-7611 May 17 j 20:58	27°♍31'55	8.52006 AU
direct	-7611 Jul 24 j 13:02	24°♍13'39	
	-7611 Oct 18 j 07:50	0°♎	
evening set	-7611 Nov 01 j 11:23	1°♎42'05	
conjunction	-7611 Nov 18 j 09:39	3°♎49'16	1°02'49
minimum elong	-7611 Nov 18 j 09:42	3°♎49'17	1°02'50
max. Earth dist.	-7611 Nov 17 j 18:25	3°♎44'28	10.43759 AU
morning rise	-7611 Dec 05 j 12:55	5°♎58'04	
retrograde	-7610 Mar 21 j 23:27	13°♎56'08	
opposition	-7610 May 30 j 21:26	10°♎29'25	0°58'16
min. Earth dist.	-7610 May 31 j 08:17	10°♎27'18	8.35366 AU
direct	-7610 Aug 06 j 10:03	7°♎07'25	
evening set	-7610 Nov 14 j 15:11	14°♎46'20	
conjunction	-7610 Dec 01 j 18:50	16°♎57'24	0°31'07
minimum elong	-7610 Dec 01 j 18:51	16°♎57'24	0°31'02
max. Earth dist.	-7610 Dec 01 j 07:55	16°♎53'54	10.27344 AU
morning rise	-7610 Dec 19 j 03:55	19°♎10'16	
retrograde	-7609 Apr 05 j 10:15	27°♎21'40	
opposition	-7609 Jun 13 j 20:27	23°♎53'07	0°17'00
min. Earth dist.	-7609 Jun 14 j 03:20	23°♎51'45	8.19370 AU
direct	-7609 Aug 19 j 17:49	20°♎29'48	
desc. node	-7609 Nov 09 j 12:51	26°♎00'32	
evening set	-7609 Nov 28 j 09:14	28°♎19'49	
	-7609 Dec 11 j 07:43	0°♏	
conjunction	-7609 Dec 15 j 18:21	0°♏34'44	-0°03'24
minimum elong	-7609 Dec 15 j 18:21	0°♏34'44	0°03'36
behind sun begin	-7609 Dec 15 j 11:13	0°♏32'26	
behind sun end	-7609 Dec 16 j 01:30	0°♏37'02	
max. Earth dist.	-7609 Dec 15 j 13:00	0°♏33'01	10.12027 AU
morning rise	-7608 Jan 02 j 09:01	2°♏51'31	
retrograde	-7608 Apr 19 j 06:42	11°♏15'19	
opposition	-7608 Jun 27 j 03:59	7°♏45'06	-0°26'49
min. Earth dist.	-7608 Jun 27 j 05:57	7°♏44'42	8.05002 AU
direct	-7608 Sep 01 j 12:34	4°♏20'23	
evening set	-7608 Dec 11 j 18:19	12°♏21'35	

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

conjunction	-7608 Dec 29 j 08:34	14°♏40'02	-0°38'35
minimum elong	-7608 Dec 29 j 08:32	14°♏40'01	0°38'53
max. Earth dist.	-7608 Dec 29 j 09:09	14°♏40'14	9.98779 AU
	-7608 Dec 31 j 21:01	15°♏	
morning rise	-7607 Jan 16 j 04:10	17°♏00'18	
retrograde	-7607 May 04 j 11:28	25°♏34'23	
opposition	-7607 Jul 11 j 18:34	22°♏02'52	-1°10'25
min. Earth dist.	-7607 Jul 11 j 15:33	22°♏03'29	7.93195 AU
direct	-7607 Sep 15 j 16:14	18°♏36'43	
evening set	-7607 Dec 26 j 17:24	26°♏48'24	
conjunction	-7606 Jan 13 j 12:02	29°♏09'45	-1°12'17
minimum elong	-7606 Jan 13 j 11:59	29°♏09'44	1°12'41
max. Earth dist.	-7606 Jan 13 j 18:31	29°♏11'55	9.88489 AU
	-7606 Jan 19 j 18:45	0°♐	
morning rise	-7606 Jan 31 j 11:36	1°♐32'45	
retrograde	-7606 May 19 j 21:40	10°♐14'03	
opposition	-7606 Jul 26 j 14:32	6°♐41'40	-1°50'36
min. Earth dist.	-7606 Jul 26 j 06:53	6°♐43'15	7.84756 AU
direct	-7606 Sep 30 j 05:12	3°♐14'08	
evening set	-7605 Jan 11 j 04:06	11°♐34'40	
conjunction	-7605 Jan 29 j 02:10	13°♐58'02	-1°41'53
minimum elong	-7605 Jan 29 j 02:06	13°♐58'01	1°42'21
max. Earth dist.	-7605 Jan 29 j 14:08	14°♐02'03	9.81891 AU
morning rise	-7605 Feb 16 j 04:26	16°♐22'46	
retrograde	-7605 Jun 04 j 09:07	25°♐07'18	
opposition	-7605 Aug 10 j 13:20	21°♐34'33	-2°24'02
min. Earth dist.	-7605 Aug 10 j 01:57	21°♐36'57	7.80288 AU
direct	-7605 Oct 15 j 02:04	18°♐05'47	
evening set	-7604 Jan 26 j 23:06	26°♐32'37	
conjunction	-7604 Feb 13 j 23:39	28°♐56'59	-2°04'58
minimum elong	-7604 Feb 13 j 23:35	28°♐56'57	2°05'28
max. Earth dist.	-7604 Feb 14 j 16:22	29°♐02'36	9.79477 AU
	-7604 Feb 21 j 19:30	0°♑	
morning rise	-7604 Mar 03 j 03:21	1°♑22'19	
retrograde	-7604 Jun 18 j 18:05	10°♑05'28	
opposition	-7604 Aug 24 j 11:56	6°♑32'57	-2°47'52
min. Earth dist.	-7604 Aug 23 j 21:48	6°♑35'56	7.80105 AU
direct	-7604 Oct 29 j 04:29	3°♑03'10	
evening set	-7603 Feb 10 j 21:47	11°♑32'58	
conjunction	-7603 Feb 28 j 23:52	13°♑57'17	-2°19'39
minimum elong	-7603 Feb 28 j 23:49	13°♑57'16	2°20'09
max. Earth dist.	-7603 Mar 01 j 20:11	14°♑04'05	9.81411 AU
morning rise	-7603 Mar 19 j 03:47	16°♑22'05	
retrograde	-7603 Jul 03 j 20:31	24°♑59'18	
opposition	-7603 Sep 08 j 07:41	21°♑27'32	-3°00'12
min. Earth dist.	-7603 Sep 07 j 15:35	21°♑30'56	7.84187 AU
direct	-7603 Nov 13 j 09:16	17°♑57'06	
evening set	-7602 Feb 26 j 19:00	26°♑26'07	
conjunction	-7602 Mar 16 j 21:40	28°♑49'23	-2°24'55
minimum elong	-7602 Mar 16 j 21:40	28°♑49'23	2°25'22
max. Earth dist.	-7602 Mar 17 j 20:15	28°♑56'52	9.87520 AU
	-7602 Mar 25 j 18:56	0°♒	
morning rise	-7602 Apr 04 j 00:45	1°♒12'39	
retrograde	-7602 Jul 18 j 12:44	9°♒39'59	
opposition	-7602 Sep 22 j 21:49	6°♒09'27	-3°00'25
min. Earth dist.	-7602 Sep 22 j 04:30	6°♒13'05	7.92201 AU
direct	-7602 Nov 28 j 11:59	2°♒38'45	
evening set	-7601 Mar 14 j 10:08	11°♒03'22	
conjunction	-7601 Apr 01 j 12:38	13°♒24'46	-2°20'45
minimum elong	-7601 Apr 01 j 12:40	13°♒24'46	2°21'09
max. Earth dist.	-7601 Apr 02 j 12:01	13°♒32'25	9.97338 AU
	-7601 Apr 13 j 16:22	15°♒	
morning rise	-7601 Apr 19 j 14:04	15°♒45'41	
retrograde	-7601 Aug 01 j 18:46	24°♒00'12	
min. Earth dist.	-7601 Oct 06 j 10:24	20°♒35'00	8.03559 AU
opposition	-7601 Oct 07 j 04:15	20°♒31'17	-2°49'13
direct	-7601 Dec 13 j 09:39	17°♒00'45	
evening set	-7600 Mar 28 j 15:33	25°♒17'55	
conjunction	-7600 Apr 15 j 17:07	27°♒36'49	-2°08'02
minimum elong	-7600 Apr 15 j 17:11	27°♒36'50	2°08'21
max. Earth dist.	-7600 Apr 16 j 16:04	27°♒44'13	10.10154 AU
morning rise	-7600 May 03 j 16:12	29°♒54'48	
	-7600 May 04 j 08:41	0°♓	
retrograde	-7600 Aug 14 j 13:46	7°♓54'52	
min. Earth dist.	-7600 Oct 19 j 08:36	4°♓31'22	8.17474 AU
opposition	-7600 Oct 20 j 01:51	4°♓27'49	-2°28'14
direct	-7600 Dec 26 j 23:53	0°♓57'52	
evening set	-7599 Apr 12 j 08:49	9°♓05'25	
conjunction	-7599 Apr 30 j 08:35	11°♓21'21	-1°48'15
minimum elong	-7599 Apr 30 j 08:40	11°♓21'23	1°48'28
max. Earth dist.	-7599 May 01 j 05:55	11°♓28'07	10.25107 AU
morning rise	-7599 May 18 j 04:37	13°♓36'03	
retrograde	-7599 Aug 27 j 20:53	21°♓21'12	
opposition	-7599 Nov 02 j 14:01	17°♓56'13	-1°59'42
min. Earth dist.	-7599 Nov 01 j 22:40	17°♓59'20	8.33085 AU
direct	-7598 Jan 10 j 05:47	14°♓27'12	
evening set	-7598 Apr 26 j 12:39	22°♓23'55	
conjunction	-7598 May 14 j 09:47	24°♓36'36	-1°23'14
minimum elong	-7598 May 14 j 09:50	24°♓36'38	1°23'20
max. Earth dist.	-7598 May 15 j 04:05	24°♓42'18	10.41309 AU
morning rise	-7598 Jun 01 j 02:17	26°♓47'51	
	-7598 Jun 28 j 22:53	0°♈	
retrograde	-7598 Sep 09 j 15:15	4°♈18'40	
opposition	-7598 Nov 15 j 16:46	0°♈55'48	-1°26'01
min. Earth dist.	-7598 Nov 15 j 04:25	0°♈58'15	8.49523 AU
	-7598 Nov 27 j 12:56	30°℞♓	
direct	-7597 Jan 24 j 02:17	27°♓27'57	
	-7597 Mar 21 j 11:44	0°♈	
evening set	-7597 May 10 j 02:47	5°♈13'28	
conjunction	-7597 May 27 j 20:31	7°♈22'49	-0°54'48
minimum elong	-7597 May 27 j 20:33	7°♈22'50	0°54'47
max. Earth dist.	-7597 May 28 j 10:29	7°♈27'05	10.57882 AU
morning rise	-7597 Jun 14 j 09:11	9°♈30'36	
retrograde	-7597 Sep 21 j 23:43	16°♈48'23	
opposition	-7597 Nov 28 j 10:39	13°♈27'32	-0°49'28
min. Earth dist.	-7597 Nov 28 j 01:38	13°♈29'18	8.65943 AU
direct	-7596 Feb 06 j 12:24	10°♈01'04	
evening set	-7596 May 22 j 04:00	17°♈35'42	
conjunction	-7596 Jun 08 j 17:41	19°♈41'45	-0°24'41
minimum elong	-7596 Jun 08 j 17:42	19°♈41'46	0°24'34
max. Earth dist.	-7596 Jun 09 j 02:33	19°♈44'25	10.74014 AU
morning rise	-7596 Jun 26 j 02:10	21°♈46'13	
retrograde	-7596 Oct 02 j 22:26	28°♈52'44	
opposition	-7596 Dec 09 j 20:30	25°♈33'43	-0°12'00
min. Earth dist.	-7596 Dec 09 j 14:23	25°♈34'53	8.81578 AU
direct	-7595 Feb 18 j 13:07	22°♈08'43	
asc. node	-7595 Apr 10 j 13:11	24°♈09'49	
evening set	-7595 Jun 03 j 17:12	29°♈33'15	
	-7595 Jun 07 j 13:02	0°♉	
conjunction	-7595 Jun 21 j 02:33	1°♉36'11	0°05'43
minimum elong	-7595 Jun 21 j 02:32	1°♉36'11	0°05'56
behind sun begin	-7595 Jun 20 j 19:45	1°♉34'12	

Attention, astronomical year style is used: The year -7595 in astronomical counting style is the year 7596 BCE in historical counting style.

behind sun end	-7595 Jun 21 j 09:19	1°♉38'10		
max. Earth dist.	-7595 Jun 21 j 07:15	1°♉37'33	10.88995 AU	
morning rise	-7595 Jul 08 j 06:32	3°♉37'34		
retrograde	-7595 Oct 14 j 14:59	10°♉34'51		
opposition	-7595 Dec 21 j 23:40	7°♉17'23	0°24'42	
min. Earth dist.	-7595 Dec 21 j 20:34	7°♉17'58	8.95775 AU	
direct	-7594 Mar 03 j 05:26	3°♉53'51		
evening set	-7594 Jun 15 j 19:38	11°♉09'22		
conjunction	-7594 Jul 03 j 00:25	13°♉09'29	0°34'58	
minimum elong	-7594 Jul 03 j 00:24	13°♉09'28	0°35'16	
max. Earth dist.	-7594 Jul 03 j 01:28	13°♉09'47	11.02219 AU	
	-7594 Jul 18 j 19:41	15°♉		
morning rise	-7594 Jul 19 j 23:51	15°♉08'05		
retrograde	-7594 Oct 26 j 02:25	21°♉58'14		
opposition	-7593 Jan 02 j 21:17	18°♉42'01	0°59'21	
min. Earth dist.	-7593 Jan 02 j 22:09	18°♉41'52	9.07973 AU	
direct	-7593 Mar 15 j 11:10	15°♉19'51		
evening set	-7593 Jun 27 j 13:16	22°♉27'45		
conjunction	-7593 Jul 14 j 13:20	24°♉25'22	1°02'14	
minimum elong	-7593 Jul 14 j 13:18	24°♉25'21	1°02'37	
max. Earth dist.	-7593 Jul 14 j 09:48	24°♉24'20	11.13183 AU	
morning rise	-7593 Jul 31 j 08:29	26°♉21'38		
	-7593 Sep 04 j 06:36	0°♊		
retrograde	-7593 Nov 06 j 07:50	3°♊06'44		
	-7592 Jan 12 j 16:17	30°℞♉		
opposition	-7592 Jan 14 j 14:38	29°♉51'26	1°30'55	
min. Earth dist.	-7592 Jan 14 j 19:54	29°♉50'28	9.17717 AU	
direct	-7592 Mar 26 j 10:59	26°♉30'26		
	-7592 Jun 03 j 23:57	0°♊		
evening set	-7592 Jul 07 j 23:32	3°♊32'14		
conjunction	-7592 Jul 24 j 19:01	5°♊27'47	1°26'41	
minimum elong	-7592 Jul 24 j 18:58	5°♊27'46	1°27'08	
max. Earth dist.	-7592 Jul 24 j 10:20	5°♊25'17	11.21486 AU	
morning rise	-7592 Aug 10 j 10:20	7°♊22'10		
retrograde	-7592 Nov 16 j 12:20	14°♊04'22		
opposition	-7591 Jan 25 j 05:16	10°♊49'36	1°58'36	
min. Earth dist.	-7591 Jan 25 j 13:57	10°♊48'01	9.24629 AU	
direct	-7591 Apr 07 j 06:26	7°♊29'37		
evening set	-7591 Jul 19 j 03:51	14°♊26'51		
conjunction	-7591 Aug 04 j 19:21	16°♊20'50	1°47'39	
minimum elong	-7591 Aug 04 j 19:18	16°♊20'49	1°48'08	
max. Earth dist.	-7591 Aug 04 j 07:05	16°♊17'19	11.26811 AU	
morning rise	-7591 Aug 21 j 07:17	18°♊13'52		
retrograde	-7591 Nov 27 j 16:22	24°♊55'18		
opposition	-7590 Feb 05 j 18:30	21°♊40'41	2°21'44	
min. Earth dist.	-7590 Feb 06 j 05:46	21°♊38'38	9.28439 AU	
direct	-7590 Apr 18 j 20:30	18°♊21'32		
evening set	-7590 Jul 30 j 04:21	25°♊15'52		
conjunction	-7590 Aug 15 j 16:33	27°♊08'49	2°04'38	
minimum elong	-7590 Aug 15 j 16:31	27°♊08'49	2°05'08	
max. Earth dist.	-7590 Aug 15 j 01:39	27°♊04'33	11.28975 AU	
morning rise	-7590 Sep 01 j 01:44	29°♊01'03		
	-7590 Sep 09 j 22:32	0°♋		
retrograde	-7590 Dec 08 j 23:13	5°♋43'42		
opposition	-7589 Feb 17 j 07:43	2°♋28'56	2°39'47	
min. Earth dist.	-7589 Feb 17 j 22:05	2°♋26'19	9.29057 AU	
	-7589 Mar 28 j 01:44	30°℞♊		
direct	-7589 Apr 30 j 07:24	29°♊10'22		
	-7589 Jun 01 j 22:54	0°♋		
evening set	-7589 Aug 10 j 02:47	6°♋03'22		
conjunction	-7589 Aug 26 j 12:15	7°♋55'52	2°17'10	
minimum elong	-7589 Aug 26 j 12:14	7°♋55'51	2°17'40	
max. Earth dist.	-7589 Aug 25 j 17:56	7°♋50'35	11.27974 AU	
morning rise	-7589 Sep 11 j 19:42	9°♋47'53		
retrograde	-7589 Dec 20 j 06:05	16°♋33'39		
opposition	-7588 Feb 28 j 22:38	13°♋18'20	2°52'16	
min. Earth dist.	-7588 Feb 29 j 15:52	13°♋15'13	9.26529 AU	
direct	-7588 May 10 j 15:58	10°♋00'06		
evening set	-7588 Aug 20 j 00:34	16°♋53'17		
max. Earth dist.	-7588 Sep 04 j 11:26	18°♋39'51	11.23900 AU	
conjunction	-7588 Sep 05 j 08:15	18°♋45'53	2°24'50	
minimum elong	-7588 Sep 05 j 08:14	18°♋45'53	2°25'20	
morning rise	-7588 Sep 21 j 15:00	20°♋38'16		
retrograde	-7588 Dec 30 j 18:58	27°♋29'03		
opposition	-7587 Mar 11 j 16:20	24°♋12'48	2°58'42	
min. Earth dist.	-7587 Mar 12 j 11:04	24°♋09'23	9.20969 AU	
direct	-7587 May 22 j 03:35	20°♋54'38		
evening set	-7587 Aug 30 j 23:33	27°♋49'26		
max. Earth dist.	-7587 Sep 15 j 09:30	29°♋36'35	11.16899 AU	
conjunction	-7587 Sep 16 j 06:42	29°♋42'46	2°27'19	
minimum elong	-7587 Sep 16 j 06:42	29°♋42'46	2°27'48	
	-7587 Sep 18 j 17:41	0°♌		
morning rise	-7587 Oct 02 j 13:40	1°♌36'09		
retrograde	-7586 Jan 11 j 14:01	8°♌33'37		
opposition	-7586 Mar 23 j 13:50	5°♌16'06	2°58'44	
min. Earth dist.	-7586 Mar 24 j 08:41	5°♌12'40	9.12562 AU	
direct	-7586 Jun 02 j 14:55	1°♌57'47		
evening set	-7586 Sep 11 j 01:32	8°♌55'42		
max. Earth dist.	-7586 Sep 26 j 11:44	10°♌44'02	11.07195 AU	
conjunction	-7586 Sep 27 j 09:12	10°♌50'22	2°24'20	
minimum elong	-7586 Sep 27 j 09:13	10°♌50'22	2°24'47	
morning rise	-7586 Oct 13 j 17:32	12°♌45'22		
	-7586 Nov 02 j 22:17	15°♌		
retrograde	-7585 Jan 23 j 16:43	19°♌51'11		
opposition	-7585 Apr 04 j 16:43	16°♌32'09	2°51'59	
min. Earth dist.	-7585 Apr 05 j 11:33	16°♌28'41	9.01580 AU	
	-7585 Apr 26 j 08:04	15°℞♌		
direct	-7585 Jun 14 j 05:13	13°♌13'27		
	-7585 Jul 31 j 04:50	15°♌		
evening set	-7585 Sep 22 j 08:25	20°♌15'56		
conjunction	-7585 Oct 08 j 17:31	22°♌12'33	2°15'40	
minimum elong	-7585 Oct 08 j 17:33	22°♌12'33	2°16'02	
max. Earth dist.	-7585 Oct 07 j 19:34	22°♌05'59	10.95115 AU	
morning rise	-7585 Oct 25 j 04:30	24°♌09'47		
	-7585 Dec 24 j 18:24	0°♍		
retrograde	-7584 Feb 05 j 03:16	1°♍25'30		
	-7584 Mar 19 j 14:23	30°℞♌		
opposition	-7584 Apr 16 j 02:06	28°♌04'46	2°38'13	
min. Earth dist.	-7584 Apr 16 j 20:47	28°♌01'17	8.88407 AU	
direct	-7584 Jun 24 j 23:37	24°♌45'28		
	-7584 Sep 16 j 09:21	0°♍		
evening set	-7584 Oct 02 j 22:07	1°♍53'59		
conjunction	-7584 Oct 19 j 09:52	3°♍53'06	2°01'15	
minimum elong	-7584 Oct 19 j 09:55	3°♍53'07	2°01'31	
max. Earth dist.	-7584 Oct 18 j 12:53	3°♍46'44	10.81090 AU	
morning rise	-7584 Nov 05 j 00:36	5°♍53'11		
retrograde	-7583 Feb 16 j 22:44	13°♍20'12		
opposition	-7583 Apr 28 j 18:50	9°♍57'35	2°17'21	
min. Earth dist.	-7583 Apr 29 j 12:12	9°♍54'18	8.73529 AU	
direct	-7583 Jul 07 j 00:54	6°♍37'30		
evening set	-7583 Oct 14 j 20:28	13°♍53'28		
conjunction	-7583 Oct 31 j 12:05	15°♍55'41	1°41'09	

Attention, astronomical year style is used: The year -7583 in astronomical counting style is the year 7584 BCE in historical counting style.

minimum elong	-7583 Oct 31 j 12:09	15°♍55'42	1°41'19
max. Earth dist.	-7583 Oct 30 j 17:48	15°♍50'03	10.65633 AU
morning rise	-7583 Nov 17 j 07:25	17°♍59'07	
retrograde	-7582 Mar 02 j 06:43	25°♍38'34	
opposition	-7582 May 11 j 19:49	22°♍13'59	1°49'33
min. Earth dist.	-7582 May 12 j 10:20	22°♍11'12	8.57521 AU
direct	-7582 Jul 19 j 10:32	18°♍53'00	
evening set	-7582 Oct 27 j 05:37	26°♍17'43	
max. Earth dist.	-7582 Nov 12 j 10:54	28°♍18'45	10.49366 AU
conjunction	-7582 Nov 13 j 01:50	28°♍23'26	1°15'44
minimum elong	-7582 Nov 13 j 01:54	28°♍23'27	1°15'48
	-7582 Nov 25 j 23:06	0°♎	
morning rise	-7582 Nov 30 j 02:25	0°♎30'37	
retrograde	-7581 Mar 16 j 02:34	8°♎23'15	
opposition	-7581 May 25 j 05:38	4°♎56'45	1°15'23
min. Earth dist.	-7581 May 25 j 16:29	4°♎54'38	8.41077 AU
direct	-7581 Aug 01 j 02:21	1°♎34'44	
evening set	-7581 Nov 09 j 03:20	9°♎09'20	
conjunction	-7581 Nov 26 j 04:37	11°♎18'49	0°45'44
minimum elong	-7581 Nov 26 j 04:40	11°♎18'50	0°45'41
max. Earth dist.	-7581 Nov 25 j 17:05	11°♎15'09	10.33044 AU
morning rise	-7581 Dec 13 j 11:00	13°♎30'01	
retrograde	-7580 Mar 29 j 09:02	21°♎36'00	
opposition	-7580 Jun 07 j 00:43	18°♎07'40	0°35'55
min. Earth dist.	-7580 Jun 07 j 07:41	18°♎06'17	8.25016 AU
direct	-7580 Aug 13 j 04:37	14°♎44'30	
evening set	-7580 Nov 21 j 14:56	22°♎29'51	
conjunction	-7580 Dec 08 j 21:33	24°♎43'11	0°12'20
minimum elong	-7580 Dec 08 j 21:33	24°♎43'12	0°12'10
behind sun begin	-7580 Dec 08 j 16:43	24°♎41'38	
behind sun end	-7580 Dec 09 j 02:24	24°♎44'45	
max. Earth dist.	-7580 Dec 08 j 14:09	24°♎40'49	10.17511 AU
morning rise	-7580 Dec 26 j 09:49	26°♎58'23	
	-7579 Jan 20 j 10:24	0°♏	
retrograde	-7579 Apr 13 j 01:36	5°♏17'08	
desc. node	-7579 Apr 21 j 13:17	5°♏13'21	
opposition	-7579 Jun 21 j 04:36	1°♏47'12	-0°07'05
min. Earth dist.	-7579 Jun 21 j 07:45	1°♏46'34	8.10219 AU
	-7579 Jul 14 j 13:17	30°℞♎	
direct	-7579 Aug 26 j 18:06	28°♎22'47	
	-7579 Oct 07 j 17:54	0°♏	
evening set	-7579 Dec 05 j 17:21	6°♏19'17	
conjunction	-7579 Dec 23 j 05:11	8°♏36'16	-0°22'53
minimum elong	-7579 Dec 23 j 05:10	8°♏36'16	0°23'09
max. Earth dist.	-7579 Dec 23 j 03:03	8°♏35'34	10.03657 AU
morning rise	-7578 Jan 09 j 22:48	10°♏55'09	
	-7578 Feb 13 j 00:16	15°♏	
retrograde	-7578 Apr 28 j 02:49	19°♏25'07	
opposition	-7578 Jul 05 j 16:12	15°♏53'55	-0°51'10
min. Earth dist.	-7578 Jul 05 j 15:06	15°♏54'09	7.97592 AU
	-7578 Jul 16 j 19:02	15°℞♏	
direct	-7578 Sep 09 j 17:44	12°♏28'14	
	-7578 Nov 01 j 10:23	15°♏	
evening set	-7578 Dec 20 j 10:11	20°♏35'33	
conjunction	-7577 Jan 07 j 02:47	22°♏55'43	-0°57'35
minimum elong	-7577 Jan 07 j 02:44	22°♏55'42	0°57'57
max. Earth dist.	-7577 Jan 07 j 06:47	22°♏57'02	9.92381 AU
morning rise	-7577 Jan 25 j 00:49	25°♏17'38	
	-7577 Mar 05 j 11:23	0°♐	
retrograde	-7577 May 13 j 10:53	3°♐56'16	
opposition	-7577 Jul 20 j 10:10	0°♐24'12	-1°33'18
min. Earth dist.	-7577 Jul 20 j 04:27	0°♐25'23	7.87996 AU
	-7577 Jul 25 j 07:17	30°℞♏	
direct	-7577 Sep 24 j 03:23	26°♏57'18	
	-7577 Nov 21 j 02:23	0°♐	
evening set	-7576 Jan 04 j 15:51	5°♐14'12	
conjunction	-7576 Jan 22 j 12:29	7°♐36'46	-1°29'20
minimum elong	-7576 Jan 22 j 12:25	7°♐36'45	1°29'46
max. Earth dist.	-7576 Jan 22 j 22:59	7°♐40'17	9.84492 AU
morning rise	-7576 Feb 09 j 13:44	10°♐00'51	
retrograde	-7576 May 27 j 21:53	18°♐44'31	
opposition	-7576 Aug 03 j 08:05	15°♐12'04	-2°10'07
min. Earth dist.	-7576 Aug 02 j 21:47	15°♐14'13	7.82128 AU
direct	-7576 Oct 07 j 21:36	11°♐44'04	
evening set	-7575 Jan 19 j 07:50	20°♐08'24	
conjunction	-7575 Feb 06 j 07:28	22°♐32'23	-1°55'35
minimum elong	-7575 Feb 06 j 07:24	22°♐32'22	1°56'04
max. Earth dist.	-7575 Feb 06 j 23:52	22°♐37'54	9.80593 AU
morning rise	-7575 Feb 24 j 10:36	24°♐57'32	
	-7575 Apr 07 j 13:49	0°♑	
retrograde	-7575 Jun 12 j 08:14	3°♑41'47	
opposition	-7575 Aug 18 j 07:07	0°♑09'28	-2°38'29
min. Earth dist.	-7575 Aug 17 j 16:49	0°♑12'28	7.80433 AU
	-7575 Aug 20 j 04:10	30°℞♐	
direct	-7575 Oct 22 j 21:47	26°♐40'33	
	-7575 Dec 22 j 19:52	0°♑	
evening set	-7574 Feb 04 j 05:37	5°♑09'15	
conjunction	-7574 Feb 22 j 07:10	7°♑33'36	-2°14'10
minimum elong	-7574 Feb 22 j 07:08	7°♑33'35	2°14'40
max. Earth dist.	-7574 Feb 23 j 04:15	7°♑40'40	9.80998 AU
morning rise	-7574 Mar 12 j 10:56	9°♑58'39	
retrograde	-7574 Jun 27 j 14:11	18°♑38'49	
min. Earth dist.	-7574 Sep 01 j 11:31	15°♑10'44	7.83034 AU
opposition	-7574 Sep 02 j 04:34	15°♑07'08	-2°56'02
direct	-7574 Nov 07 j 01:03	11°♑37'33	
evening set	-7573 Feb 20 j 04:00	20°♑06'54	
conjunction	-7573 Mar 10 j 06:32	22°♑30'35	-2°23'39
minimum elong	-7573 Mar 10 j 06:31	22°♑30'35	2°24'08
max. Earth dist.	-7573 Mar 11 j 06:37	22°♑38'36	9.85666 AU
morning rise	-7573 Mar 28 j 09:52	24°♑54'28	
	-7573 May 10 j 14:10	0°♒	
retrograde	-7573 Jul 12 j 12:01	3°♒26'14	
opposition	-7573 Sep 16 j 21:29	29°♑55'39	-3°01'36
min. Earth dist.	-7573 Sep 16 j 03:10	29°♑59'29	7.89688 AU
	-7573 Sep 16 j 00:43	30°℞♑	
direct	-7573 Nov 22 j 03:55	26°♑25'39	
	-7572 Jan 25 j 13:27	0°♒	
evening set	-7572 Mar 06 j 22:25	4°♒51'57	
conjunction	-7572 Mar 25 j 01:04	7°♒14'05	-2°23'37
minimum elong	-7572 Mar 25 j 01:05	7°♒14'05	2°24'02
max. Earth dist.	-7572 Mar 26 j 01:56	7°♒22'16	9.94171 AU
morning rise	-7572 Apr 12 j 03:07	9°♒35'54	
	-7572 May 29 j 05:11	15°♒	
retrograde	-7572 Jul 25 j 23:47	17°♒55'50	
	-7572 Sep 23 j 14:57	15°℞♒	
opposition	-7572 Sep 30 j 07:22	14°♒26'44	-2°55'18
min. Earth dist.	-7572 Sep 29 j 13:32	14°♒30'27	7.99799 AU
direct	-7572 Dec 06 j 03:56	10°♒56'40	
	-7571 Feb 14 j 00:26	15°♒	
evening set	-7571 Mar 22 j 08:32	19°♒16'46	
conjunction	-7571 Apr 09 j 10:29	21°♒36'38	-2°14'33
minimum elong	-7571 Apr 09 j 10:32	21°♒36'39	2°14'54
max. Earth dist.	-7571 Apr 10 j 09:52	21°♒44'13	10.05765 AU

Attention, astronomical year style is used: The year -7571 in astronomical counting style is the year 7572 BCE in historical counting style.

morning rise	-7571 Apr 27 j 10:33	23°♒55'46	
	-7571 Jun 22 j 07:55	0°♓	
retrograde	-7571 Aug 08 j 23:47	2°♓01'50	
	-7571 Sep 26 j 12:55	30°℞♒	
opposition	-7571 Oct 14 j 08:59	28°♒34'31	-2°38'26
min. Earth dist.	-7571 Oct 13 j 16:38	28°♒37'54	8.12549 AU
direct	-7571 Dec 20 j 22:18	25°♒04'49	
	-7570 Mar 09 j 17:25	0°♓	
evening set	-7570 Apr 06 j 07:16	3°♓16'21	
conjunction	-7570 Apr 24 j 07:43	5°♓33'28	-1°57'42
minimum elong	-7570 Apr 24 j 07:47	5°♓33'29	1°57'57
max. Earth dist.	-7570 Apr 25 j 04:17	5°♓40'02	10.19602 AU
morning rise	-7570 May 12 j 05:13	7°♓49'33	
retrograde	-7570 Aug 22 j 11:05	15°♓41'02	
min. Earth dist.	-7570 Oct 27 j 10:39	12°♓18'40	8.27139 AU
opposition	-7570 Oct 28 j 01:25	12°♓15'40	-2°12'59
direct	-7569 Jan 04 j 09:17	8°♓46'39	
evening set	-7569 Apr 20 j 17:17	16°♓48'05	
conjunction	-7569 May 08 j 15:34	19°♓02'09	-1°34'46
minimum elong	-7569 May 08 j 15:38	19°♓02'10	1°34'55
max. Earth dist.	-7569 May 09 j 08:58	19°♓07'37	10.34904 AU
morning rise	-7569 May 26 j 09:54	21°♓14'54	
retrograde	-7569 Sep 04 j 10:14	28°♓51'58	
opposition	-7569 Nov 10 j 08:20	25°♓28'34	-1°41'19
min. Earth dist.	-7569 Nov 09 j 19:30	25°♓31'08	8.42809 AU
direct	-7568 Jan 18 j 10:41	22°♓00'30	
evening set	-7568 May 03 j 13:55	29°♓51'04	
	-7568 May 04 j 19:29	0°♈	
conjunction	-7568 May 21 j 09:18	2°♈01'55	-1°07'37
minimum elong	-7568 May 21 j 09:21	2°♈01'56	1°07'39
max. Earth dist.	-7568 May 21 j 23:23	2°♈06'15	10.50878 AU
morning rise	-7568 Jun 07 j 23:51	4°♈11'15	
retrograde	-7568 Sep 16 j 00:33	11°♈34'51	
opposition	-7568 Nov 22 j 06:23	8°♈13'19	-1°05'46
min. Earth dist.	-7568 Nov 21 j 20:06	8°♈15'21	8.58773 AU
direct	-7567 Jan 31 j 01:00	4°♈46'24	
evening set	-7567 May 16 j 21:10	12°♈26'01	
conjunction	-7567 Jun 03 j 12:55	14°♈33'37	-0°38'02
minimum elong	-7567 Jun 03 j 12:56	14°♈33'37	0°37'58
max. Earth dist.	-7567 Jun 03 j 23:31	14°♈36'50	10.66736 AU
morning rise	-7567 Jun 20 j 23:14	16°♈39'35	
retrograde	-7567 Sep 28 j 04:19	23°♈51'15	
opposition	-7567 Dec 04 j 20:11	20°♈31'27	-0°28'28
min. Earth dist.	-7567 Dec 04 j 13:33	20°♈32'44	8.74283 AU
direct	-7566 Feb 13 j 05:49	17°♈05'46	
evening set	-7566 May 29 j 15:59	24°♈35'00	
conjunction	-7566 Jun 16 j 03:28	26°♈39'26	-0°07'39
minimum elong	-7566 Jun 16 j 03:28	26°♈39'26	0°07'29
behind sun begin	-7566 Jun 15 j 20:58	26°♈37'31	
behind sun end	-7566 Jun 16 j 09:58	26°♈41'21	
max. Earth dist.	-7566 Jun 16 j 09:30	26°♈41'13	10.81759 AU
morning rise	-7566 Jul 03 j 09:26	28°♈42'16	
	-7566 Jul 14 j 16:41	0°♉	
asc. node	-7566 Sep 19 j 02:51	5°♉21'03	
retrograde	-7566 Oct 09 j 23:19	5°♉43'50	
opposition	-7566 Dec 17 j 02:29	2°♉25'32	0°08'47
min. Earth dist.	-7566 Dec 16 j 23:49	2°♉26'03	8.88671 AU
	-7565 Jan 21 j 14:35	30°℞♈	
direct	-7565 Feb 26 j 01:59	29°♈01'05	
	-7565 Apr 02 j 07:16	0°♉	
evening set	-7565 Jun 10 j 23:30	6°♉20'57	
conjunction	-7565 Jun 28 j 06:22	8°♉22'27	0°22'20
minimum elong	-7565 Jun 28 j 06:20	8°♉22'26	0°22'36
max. Earth dist.	-7565 Jun 28 j 07:10	8°♉22'41	10.95329 AU
morning rise	-7565 Jul 15 j 08:00	10°♉22'24	
	-7565 Aug 29 j 21:22	15°♉	
retrograde	-7565 Oct 21 j 11:39	17°♉15'56	
	-7565 Dec 15 j 08:31	15°℞♉	
opposition	-7565 Dec 29 j 02:38	13°♉58'53	0°44'31
min. Earth dist.	-7565 Dec 29 j 03:20	13°♉58'45	9.01349 AU
direct	-7564 Mar 09 j 13:03	10°♉35'39	
	-7564 May 27 j 02:19	15°♉	
evening set	-7564 Jun 21 j 21:09	17°♉47'23	
conjunction	-7564 Jul 08 j 23:19	19°♉46'15	0°50'37
minimum elong	-7564 Jul 08 j 23:17	19°♉46'14	0°50'58
max. Earth dist.	-7564 Jul 08 j 19:57	19°♉45'16	11.06924 AU
morning rise	-7564 Jul 25 j 20:34	21°♉43'42	
retrograde	-7564 Oct 31 j 19:43	28°♉31'22	
opposition	-7563 Jan 08 j 21:59	25°♉15'13	1°17'36
min. Earth dist.	-7563 Jan 09 j 01:21	25°♉14'35	9.11853 AU
direct	-7563 Mar 21 j 17:28	21°♉53'10	
evening set	-7563 Jul 03 j 10:37	28°♉58'10	
	-7563 Jul 12 j 10:54	0°♊	
conjunction	-7563 Jul 20 j 08:20	0°♊54'47	1°16'25
minimum elong	-7563 Jul 20 j 08:17	0°♊54'47	1°16'51
max. Earth dist.	-7563 Jul 20 j 02:01	0°♊52'58	11.16149 AU
morning rise	-7563 Aug 06 j 01:21	2°♊50'09	
retrograde	-7563 Nov 12 j 02:50	9°♊34'02	
opposition	-7562 Jan 20 j 13:56	6°♊18'31	1°47'07
min. Earth dist.	-7562 Jan 20 j 20:43	6°♊17'16	9.19843 AU
direct	-7562 Apr 02 j 13:56	2°♊57'33	
evening set	-7562 Jul 14 j 17:32	9°♊57'17	
conjunction	-7562 Jul 31 j 10:59	11°♊52'08	1°39'01
minimum elong	-7562 Jul 31 j 10:56	11°♊52'07	1°39'29
max. Earth dist.	-7562 Jul 31 j 00:53	11°♊49'13	11.22717 AU
morning rise	-7562 Aug 17 j 00:22	13°♊45'55	
retrograde	-7562 Nov 23 j 05:25	20°♊28'02	
opposition	-7561 Feb 01 j 03:50	17°♊12'52	2°12'22
min. Earth dist.	-7561 Feb 01 j 14:18	17°♊10'57	9.25067 AU
direct	-7561 Apr 14 j 04:42	13°♊52'48	
evening set	-7561 Jul 25 j 19:51	20°♊48'54	
conjunction	-7561 Aug 11 j 09:26	22°♊42'26	1°57'49
minimum elong	-7561 Aug 11 j 09:23	22°♊42'25	1°58'19
max. Earth dist.	-7561 Aug 10 j 19:20	22°♊38'22	11.26436 AU
morning rise	-7561 Aug 27 j 19:55	24°♊35'08	
	-7561 Oct 25 j 06:09	0°♋	
retrograde	-7561 Dec 04 j 10:18	1°♋17'32	
	-7560 Jan 14 j 19:09	30°℞♊	
opposition	-7560 Feb 12 j 17:04	28°♊02'23	2°32'43
min. Earth dist.	-7560 Feb 13 j 06:08	28°♊00'01	9.27365 AU
direct	-7560 Apr 24 j 18:30	24°♊43'04	
	-7560 Jul 21 j 00:48	0°♋	
evening set	-7560 Aug 04 j 19:03	1°♋37'02	
conjunction	-7560 Aug 21 j 05:40	3°♋29'50	2°12'21
minimum elong	-7560 Aug 21 j 05:37	3°♋29'49	2°12'51
max. Earth dist.	-7560 Aug 20 j 13:28	3°♋25'10	11.27198 AU
morning rise	-7560 Sep 06 j 13:55	5°♋22'01	
retrograde	-7560 Dec 14 j 17:08	12°♋06'37	
opposition	-7559 Feb 23 j 07:12	8°♋51'09	2°47'41
min. Earth dist.	-7559 Feb 23 j 21:40	8°♋48'31	9.26663 AU
direct	-7559 May 06 j 04:19	5°♋32'27	
evening set	-7559 Aug 15 j 16:49	12°♋25'45	
max. Earth dist.	-7559 Aug 31 j 07:50	14°♋13'17	11.24970 AU

Attention, astronomical year style is used: The year -7559 in astronomical counting style is the year 7560 BCE in historical counting style.

conjunction	-7559 Sep 01 j 01:23	14°♋18'22	2°22'11
minimum elong	-7559 Sep 01 j 01:21	14°♋18'21	2°22'41
morning rise	-7559 Sep 17 j 08:16	16°♋10'36	
retrograde	-7559 Dec 26 j 05:14	22°♋59'16	
opposition	-7558 Mar 06 j 23:31	19°♋43'13	2°56'46
min. Earth dist.	-7558 Mar 07 j 15:36	19°♋40'17	9.22970 AU
direct	-7558 May 17 j 14:14	16°♋24'53	
evening set	-7558 Aug 26 j 15:16	23°♋19'03	
conjunction	-7558 Sep 11 j 22:35	25°♋12'04	2°26'57
minimum elong	-7558 Sep 11 j 22:34	25°♋12'04	2°27'26
max. Earth dist.	-7558 Sep 11 j 02:52	25°♋06'19	11.19814 AU
morning rise	-7558 Sep 28 j 05:18	27°♋04'59	
	-7558 Oct 25 j 09:27	0°♌	
retrograde	-7557 Jan 06 j 20:31	3°♌59'24	
opposition	-7557 Mar 18 j 19:13	0°♌42'28	2°59'34
min. Earth dist.	-7557 Mar 19 j 13:13	0°♌39'11	9.16394 AU
	-7557 Mar 28 j 13:38	30°℞♋	
direct	-7557 May 28 j 23:36	27°♋24'17	
	-7557 Jul 26 j 03:05	0°♌	
evening set	-7557 Sep 06 j 15:55	4°♌20'49	
conjunction	-7557 Sep 22 j 23:03	6°♌14'48	2°26'20
minimum elong	-7557 Sep 22 j 23:04	6°♌14'49	2°26'47
max. Earth dist.	-7557 Sep 22 j 02:07	6°♌08'40	11.11891 AU
morning rise	-7557 Oct 09 j 06:45	8°♌09'02	
	-7556 Jan 03 j 18:42	15°♌	
retrograde	-7556 Jan 18 j 18:34	15°♌10'57	
	-7556 Feb 02 j 22:53	15°℞♌	
opposition	-7556 Mar 29 j 19:49	11°♌52'49	2°55'44
min. Earth dist.	-7556 Mar 30 j 14:14	11°♌49'26	9.07139 AU
direct	-7556 Jun 08 j 13:25	8°♌34'33	
	-7556 Sep 11 j 19:27	15°♌	
evening set	-7556 Sep 16 j 20:24	15°♌34'50	
max. Earth dist.	-7556 Oct 02 j 08:28	17°♌24'27	11.01444 AU
conjunction	-7556 Oct 03 j 04:42	17°♌30'28	2°20'06
minimum elong	-7556 Oct 03 j 04:44	17°♌30'28	2°20'30
morning rise	-7556 Oct 19 j 14:22	19°♌26'35	
retrograde	-7555 Jan 30 j 02:36	26°♌37'36	
opposition	-7555 Apr 11 j 02:16	23°♌18'00	2°44'57
min. Earth dist.	-7555 Apr 11 j 19:45	23°♌14'46	8.95499 AU
direct	-7555 Jun 20 j 06:58	19°♌59'26	
evening set	-7555 Sep 28 j 06:59	27°♌04'53	
conjunction	-7555 Oct 14 j 17:32	29°♌02'43	2°08'08
minimum elong	-7555 Oct 14 j 17:35	29°♌02'44	2°08'26
max. Earth dist.	-7555 Oct 13 j 22:23	28°♌56'57	10.88807 AU
	-7555 Oct 22 j 16:03	0°♍	
morning rise	-7555 Oct 31 j 06:18	1°♍01'21	
retrograde	-7554 Feb 11 j 18:51	8°♍22'49	
opposition	-7554 Apr 23 j 15:27	5°♍01'33	2°27'07
min. Earth dist.	-7554 Apr 24 j 07:33	4°♍58'32	8.81866 AU
direct	-7554 Jul 02 j 04:23	1°♍42'26	
evening set	-7554 Oct 10 j 01:25	8°♍54'28	
conjunction	-7554 Oct 26 j 15:07	10°♍55'04	1°50'27
minimum elong	-7554 Oct 26 j 15:10	10°♍55'05	1°50'39
max. Earth dist.	-7554 Oct 25 j 20:32	10°♍49'23	10.74424 AU
morning rise	-7554 Nov 12 j 08:09	12°♍56'45	
retrograde	-7553 Feb 24 j 21:34	20°♍29'54	
opposition	-7553 May 06 j 12:38	17°♍06'49	2°02'16
min. Earth dist.	-7553 May 07 j 03:29	17°♍03'59	8.66727 AU
direct	-7553 Jul 14 j 09:18	13°♍46'54	
evening set	-7553 Oct 22 j 05:21	21°♍06'49	
conjunction	-7553 Nov 07 j 23:09	23°♍10'40	1°27'17
minimum elong	-7553 Nov 07 j 23:13	23°♍10'41	1°27'23
max. Earth dist.	-7553 Nov 07 j 06:17	23°♍05'25	10.58810 AU
morning rise	-7553 Nov 24 j 21:19	25°♍15'54	
	-7552 Jan 07 j 07:48	0°♎	
retrograde	-7552 Mar 09 j 10:46	3°♎01'39	
	-7552 May 13 j 16:58	30°℞♍	
opposition	-7552 May 18 j 18:20	29°♍36'40	1°30'48
min. Earth dist.	-7552 May 19 j 07:17	29°♍34'10	8.50655 AU
direct	-7552 Jul 25 j 21:59	26°♍15'44	
	-7552 Oct 01 j 02:28	0°♎	
evening set	-7552 Nov 02 j 20:54	3°♎44'53	
conjunction	-7552 Nov 19 j 19:40	5°♎52'21	0°59'12
minimum elong	-7552 Nov 19 j 19:43	5°♎52'22	0°59'12
max. Earth dist.	-7552 Nov 19 j 05:59	5°♎48'02	10.42568 AU
morning rise	-7552 Dec 06 j 23:25	8°♎01'27	
retrograde	-7551 Mar 23 j 10:31	16°♎00'25	
opposition	-7551 Jun 01 j 08:45	12°♎33'32	0°53'33
min. Earth dist.	-7551 Jun 01 j 18:43	12°♎31'35	8.34337 AU
direct	-7551 Aug 07 j 20:53	9°♎11'27	
evening set	-7551 Nov 16 j 01:41	16°♎50'59	
conjunction	-7551 Dec 03 j 05:53	19°♎02'18	0°27'09
minimum elong	-7551 Dec 03 j 05:54	19°♎02'19	0°27'03
max. Earth dist.	-7551 Dec 02 j 20:38	18°♎59'21	10.26468 AU
morning rise	-7551 Dec 20 j 15:21	21°♎15'25	
retrograde	-7550 Apr 06 j 22:07	29°♎27'31	
opposition	-7550 Jun 15 j 08:09	25°♎58'51	0°11'57
min. Earth dist.	-7550 Jun 15 j 13:45	25°♎57'44	8.18660 AU
direct	-7550 Aug 21 j 05:14	22°♎35'31	
desc. node	-7550 Sep 27 j 12:02	23°♎52'09	
	-7550 Nov 26 j 10:47	0°♏	
evening set	-7550 Nov 29 j 20:49	0°♏26'02	
conjunction	-7550 Dec 17 j 06:20	2°♏41'10	-0°07'28
minimum elong	-7550 Dec 17 j 06:19	2°♏41'09	0°07'41
behind sun begin	-7550 Dec 16 j 23:48	2°♏39'03	
behind sun end	-7550 Dec 17 j 12:50	2°♏43'16	
max. Earth dist.	-7550 Dec 17 j 01:59	2°♏39'46	10.11468 AU
morning rise	-7549 Jan 03 j 21:17	4°♏58'08	
retrograde	-7549 Apr 21 j 20:02	13°♏22'22	
opposition	-7549 Jun 29 j 15:55	9°♏52'07	-0°31'53
min. Earth dist.	-7549 Jun 29 j 16:46	9°♏51'57	8.04618 AU
direct	-7549 Sep 03 j 22:43	6°♏27'24	
evening set	-7549 Dec 14 j 06:40	14°♏29'00	
	-7549 Dec 18 j 06:09	15°♏	
conjunction	-7549 Dec 31 j 21:08	16°♏47'33	-0°42'33
minimum elong	-7549 Dec 31 j 21:05	16°♏47'32	0°42'52
max. Earth dist.	-7549 Dec 31 j 22:05	16°♏47'52	9.98557 AU
morning rise	-7548 Jan 18 j 17:01	19°♏07'56	
retrograde	-7548 May 06 j 01:50	27°♏42'11	
opposition	-7548 Jul 13 j 06:39	24°♏10'41	-1°15'10
min. Earth dist.	-7548 Jul 13 j 03:03	24°♏11'26	7.93158 AU
direct	-7548 Sep 17 j 02:50	20°♏44'32	
evening set	-7548 Dec 28 j 06:16	28°♏56'28	
	-7547 Jan 05 j 07:13	0°♐	
conjunction	-7547 Jan 15 j 01:02	1°♐17'50	-1°15'51
minimum elong	-7547 Jan 15 j 00:58	1°♐17'49	1°16'16
max. Earth dist.	-7547 Jan 15 j 07:23	1°♐19'57	9.88624 AU
morning rise	-7547 Feb 02 j 00:50	3°♐40'52	
retrograde	-7547 May 21 j 11:17	12°♐21'58	
opposition	-7547 Jul 28 j 02:28	8°♐49'40	-1°54'40
min. Earth dist.	-7547 Jul 27 j 18:51	8°♐51'15	7.85075 AU
direct	-7547 Oct 01 j 17:15	5°♐22'08	
evening set	-7546 Jan 12 j 17:19	13°♐42'44	

Attention, astronomical year style is used: The year -7546 in astronomical counting style is the year 7547 BCE in historical counting style.

conjunction	-7546 Jan 30 j 15:26	16°♐06'01	-1°44'47
minimum elong	-7546 Jan 30 j 15:21	16°♐06'00	1°45'16
max. Earth dist.	-7546 Jan 31 j 03:03	16°♐09'55	9.82376 AU
morning rise	-7546 Feb 17 j 17:49	18°♐30'40	
retrograde	-7546 Jun 05 j 21:09	27°♐14'36	
opposition	-7546 Aug 12 j 00:45	23°♐42'01	-2°27'07
min. Earth dist.	-7546 Aug 11 j 13:43	23°♐44'20	7.80945 AU
direct	-7546 Oct 16 j 14:54	20°♐13'16	
evening set	-7545 Jan 28 j 12:07	28°♐39'53	
	-7545 Feb 07 j 13:32	0°♑	
conjunction	-7545 Feb 15 j 12:41	1°♑04'06	-2°06'59
minimum elong	-7545 Feb 15 j 12:37	1°♑04'05	2°07'30
max. Earth dist.	-7545 Feb 16 j 05:11	1°♑09'38	9.80286 AU
morning rise	-7545 Mar 05 j 16:22	3°♑29'15	
retrograde	-7545 Jun 21 j 04:11	12°♑11'29	
opposition	-7545 Aug 26 j 22:42	8°♑39'08	-2°49'44
min. Earth dist.	-7545 Aug 26 j 08:42	8°♑42'06	7.81065 AU
direct	-7545 Oct 31 j 16:58	5°♑09'25	
evening set	-7544 Feb 13 j 10:06	13°♑38'41	
conjunction	-7544 Mar 02 j 12:12	16°♑02'48	-2°20'40
minimum elong	-7544 Mar 02 j 12:11	16°♑02'47	2°21'10
max. Earth dist.	-7544 Mar 03 j 08:34	16°♑09'36	9.82498 AU
morning rise	-7544 Mar 20 j 16:02	18°♑27'21	
retrograde	-7544 Jul 05 j 04:55	27°♑03'23	
opposition	-7544 Sep 09 j 17:31	23°♑31'49	-3°00'47
min. Earth dist.	-7544 Sep 09 j 01:13	23°♑35'15	7.85386 AU
direct	-7544 Nov 14 j 20:05	20°♑01'27	
evening set	-7543 Feb 28 j 06:31	28°♑29'41	
	-7543 Mar 11 j 18:02	0°♒	
conjunction	-7543 Mar 18 j 09:14	0°♒52'43	-2°24'55
minimum elong	-7543 Mar 18 j 09:15	0°♒52'43	2°25'22
max. Earth dist.	-7543 Mar 19 j 07:59	1°♒00'15	9.88810 AU
morning rise	-7543 Apr 05 j 12:08	3°♒15'41	
retrograde	-7543 Jul 19 j 21:17	11°♒41'39	
opposition	-7543 Sep 24 j 06:35	8°♒11'19	-2°59'45
min. Earth dist.	-7543 Sep 23 j 12:56	8°♒15'00	7.93553 AU
direct	-7543 Nov 29 j 21:33	4°♒40'41	
evening set	-7542 Mar 15 j 20:35	13°♒04'21	
	-7542 Mar 30 j 17:10	15°♒	
conjunction	-7542 Apr 02 j 23:05	15°♒25'30	-2°19'48
minimum elong	-7542 Apr 02 j 23:08	15°♒25'30	2°20'11
max. Earth dist.	-7542 Apr 03 j 22:47	15°♒33'15	9.98739 AU
morning rise	-7542 Apr 21 j 00:15	17°♒46'06	
retrograde	-7542 Aug 03 j 03:10	25°♒59'13	
opposition	-7542 Oct 08 j 12:06	22°♒30'28	-2°47'26
min. Earth dist.	-7542 Oct 07 j 18:11	22°♒34'10	8.04972 AU
direct	-7542 Dec 14 j 18:27	19°♒00'00	
evening set	-7541 Mar 31 j 00:39	27°♒16'07	
conjunction	-7541 Apr 18 j 02:10	29°♒34'45	-2°06'16
minimum elong	-7541 Apr 18 j 02:13	29°♒34'46	2°06'34
max. Earth dist.	-7541 Apr 19 j 01:18	29°♒42'12	10.11571 AU
	-7541 Apr 21 j 08:34	0°♓	
morning rise	-7541 May 06 j 00:57	1°♓52'27	
retrograde	-7541 Aug 16 j 20:38	9°♓51'08	
opposition	-7541 Oct 22 j 08:46	6°♓24'15	-2°25'34
min. Earth dist.	-7541 Oct 21 j 16:09	6°♓27'40	8.18860 AU
direct	-7541 Dec 29 j 08:19	2°♓54'21	
evening set	-7540 Apr 13 j 16:44	11°♓00'53	
conjunction	-7540 May 01 j 16:20	13°♓16'33	-1°45'51
minimum elong	-7540 May 01 j 16:24	13°♓16'34	1°46'02
max. Earth dist.	-7540 May 02 j 13:07	13°♓23'07	10.26453 AU
morning rise	-7540 May 19 j 12:09	15°♓30'58	
retrograde	-7540 Aug 29 j 01:48	23°♓14'53	
opposition	-7540 Nov 03 j 20:00	19°♓50'03	-1°56'22
min. Earth dist.	-7540 Nov 03 j 05:48	19°♓52'55	8.34362 AU
direct	-7539 Jan 11 j 13:20	16°♓21'02	
evening set	-7539 Apr 27 j 19:29	24°♓16'50	
conjunction	-7539 May 15 j 16:20	26°♓29'16	-1°20'22
minimum elong	-7539 May 15 j 16:23	26°♓29'17	1°20'27
max. Earth dist.	-7539 May 16 j 09:15	26°♓34'32	10.42502 AU
morning rise	-7539 Jun 02 j 08:41	28°♓40'16	
	-7539 Jun 13 j 11:43	0°♈	
retrograde	-7539 Sep 10 j 20:10	6°♈10'02	
opposition	-7539 Nov 16 j 22:04	2°♈47'16	-1°22'15
min. Earth dist.	-7539 Nov 16 j 10:35	2°♈49'33	8.50618 AU
	-7539 Dec 27 j 23:03	30°℞♓	
direct	-7538 Jan 25 j 08:29	29°♓19'26	
	-7538 Feb 22 j 18:20	0°♈	
evening set	-7538 May 11 j 08:30	7°♈04'08	
conjunction	-7538 May 29 j 01:56	9°♈13'16	-0°51'38
minimum elong	-7538 May 29 j 01:58	9°♈13'17	0°51'37
max. Earth dist.	-7538 May 29 j 14:26	9°♈17'06	10.58863 AU
morning rise	-7538 Jun 15 j 14:26	11°♈20'51	
retrograde	-7538 Sep 23 j 02:43	18°♈37'51	
opposition	-7538 Nov 29 j 15:18	15°♈17'02	-0°45'27
min. Earth dist.	-7538 Nov 29 j 06:25	15°♈18'47	8.66801 AU
direct	-7537 Feb 07 j 18:52	11°♈50'35	
evening set	-7537 May 24 j 08:49	19°♈24'34	
conjunction	-7537 Jun 10 j 22:19	21°♈30'27	-0°21'24
minimum elong	-7537 Jun 10 j 22:20	21°♈30'27	0°21'16
max. Earth dist.	-7537 Jun 11 j 06:36	21°♈32'56	10.74740 AU
morning rise	-7537 Jun 28 j 06:31	23°♈34'44	
	-7537 Sep 07 j 05:17	0°♉	
retrograde	-7537 Oct 05 j 01:52	0°♉40'45	
	-7537 Nov 02 j 07:42	30°℞♈	
opposition	-7537 Dec 12 j 00:39	27°♈21'43	-0°07'57
min. Earth dist.	-7537 Dec 11 j 18:37	27°♈22'53	8.82161 AU
direct	-7536 Feb 20 j 19:11	23°♈56'43	
asc. node	-7536 Mar 01 j 05:42	24°♈01'07	
	-7536 May 24 j 01:24	0°♉	
evening set	-7536 Jun 04 j 21:27	1°♉20'48	
conjunction	-7536 Jun 22 j 06:35	3°♉23'37	0°09'00
minimum elong	-7536 Jun 22 j 06:34	3°♉23'37	0°09'13
behind sun begin	-7536 Jun 22 j 00:34	3°♉21'51	
behind sun end	-7536 Jun 22 j 12:34	3°♉25'23	
max. Earth dist.	-7536 Jun 22 j 11:19	3°♉25'00	10.89430 AU
morning rise	-7536 Jul 09 j 10:12	5°♉24'51	
retrograde	-7536 Oct 15 j 19:22	12°♉21'51	
opposition	-7536 Dec 23 j 03:40	9°♉04'23	0°28'41
min. Earth dist.	-7536 Dec 23 j 01:24	9°♉04'49	8.96061 AU
direct	-7535 Mar 04 j 08:26	5°♉40'51	
evening set	-7535 Jun 16 j 23:36	12°♉56'09	
conjunction	-7535 Jul 04 j 04:02	14°♉56'10	0°38'09
minimum elong	-7535 Jul 04 j 04:00	14°♉56'09	0°38'28
max. Earth dist.	-7535 Jul 04 j 04:25	14°♉56'16	11.02351 AU
	-7535 Jul 04 j 17:09	15°♉	
morning rise	-7535 Jul 21 j 03:08	16°♉54'41	
retrograde	-7535 Oct 27 j 04:56	23°♉44'48	
opposition	-7534 Jan 04 j 01:23	20°♉28'35	1°03'07
min. Earth dist.	-7534 Jan 04 j 03:21	20°♉28'13	9.07969 AU
direct	-7534 Mar 16 j 15:29	17°♉06'22	
evening set	-7534 Jun 28 j 17:03	24°♉14'16	

Attention, astronomical year style is used: The year -7534 in astronomical counting style is the year 7535 BCE in historical counting style.

conjunction	-7534 Jul 15 j 16:42	26°♉11'49	1°05'12	
minimum elong	-7534 Jul 15 j 16:39	26°♉11'48	1°05'35	
max. Earth dist.	-7534 Jul 15 j 11:55	26°♉10'26	11.13032 AU	
morning rise	-7534 Aug 01 j 11:39	28°♉08'03		
	-7534 Aug 18 j 10:31	0°♊		
retrograde	-7534 Nov 07 j 11:40	4°♊53'21		
opposition	-7533 Jan 15 j 18:49	1°♊38'01	1°34'22	
min. Earth dist.	-7533 Jan 16 j 00:18	1°♊37'00	9.17445 AU	
	-7533 Feb 07 j 21:45	30°℞♉		
direct	-7533 Mar 28 j 16:09	28°♉17'00		
	-7533 May 15 j 06:51	0°♊		
evening set	-7533 Jul 10 j 03:14	5°♊18'57		
conjunction	-7533 Jul 26 j 22:27	7°♊14'29	1°29'20	
minimum elong	-7533 Jul 26 j 22:24	7°♊14'28	1°29'47	
max. Earth dist.	-7533 Jul 26 j 13:38	7°♊11'56	11.21086 AU	
morning rise	-7533 Aug 12 j 13:32	9°♊08'52		
retrograde	-7533 Nov 18 j 16:14	15°♊51'27		
opposition	-7532 Jan 27 j 09:41	12°♊36'38	2°01'37	
min. Earth dist.	-7532 Jan 27 j 18:00	12°♊35'06	9.24120 AU	
direct	-7532 Apr 08 j 10:38	9°♊16'38		
evening set	-7532 Jul 20 j 07:41	16°♊14'09		
conjunction	-7532 Aug 05 j 23:00	18°♊08'09	1°49'54	
minimum elong	-7532 Aug 05 j 22:57	18°♊08'08	1°50'24	
max. Earth dist.	-7532 Aug 05 j 11:14	18°♊04'46	11.26193 AU	
morning rise	-7532 Aug 22 j 10:37	20°♊01'12		
retrograde	-7532 Nov 28 j 22:11	26°♊43'10		
opposition	-7531 Feb 06 j 23:27	23°♊28'30	2°24'13	
min. Earth dist.	-7531 Feb 07 j 10:55	23°♊26'25	9.27727 AU	
direct	-7531 Apr 20 j 00:58	20°♊09'20		
evening set	-7531 Jul 31 j 08:30	27°♊04'01		
conjunction	-7531 Aug 16 j 20:24	28°♊57'02	2°06'24	
minimum elong	-7531 Aug 16 j 20:22	28°♊57'01	2°06'54	
max. Earth dist.	-7531 Aug 16 j 05:02	28°♊52'37	11.28159 AU	
	-7531 Aug 25 j 23:44	0°♋		
morning rise	-7531 Sep 02 j 05:26	0°♋49'20		
retrograde	-7531 Dec 10 j 03:23	7°♋32'39		
opposition	-7530 Feb 18 j 13:20	4°♋17'48	2°41'39	
min. Earth dist.	-7530 Feb 19 j 04:25	4°♋15'04	9.28151 AU	
direct	-7530 May 01 j 11:01	0°♋59'13		
evening set	-7530 Aug 11 j 07:11	7°♋52'43		
conjunction	-7530 Aug 27 j 16:26	9°♋45'18	2°18'23	
minimum elong	-7530 Aug 27 j 16:24	9°♋45'17	2°18'53	
max. Earth dist.	-7530 Aug 26 j 21:31	9°♋39'50	11.26963 AU	
morning rise	-7530 Sep 12 j 23:54	11°♋37'26		
retrograde	-7530 Dec 21 j 12:28	18°♋24'04		
opposition	-7529 Mar 02 j 04:46	15°♋08'40	2°53'25	
min. Earth dist.	-7529 Mar 02 j 22:05	15°♋05'31	9.25419 AU	
direct	-7529 May 12 j 22:26	11°♋50'24		
evening set	-7529 Aug 22 j 05:25	18°♋44'12		
conjunction	-7529 Sep 07 j 13:07	20°♋36'57	2°25'26	
minimum elong	-7529 Sep 07 j 13:06	20°♋36'57	2°25'56	
max. Earth dist.	-7529 Sep 06 j 16:48	20°♋31'04	11.22686 AU	
morning rise	-7529 Sep 23 j 19:50	22°♋29'31		
retrograde	-7528 Jan 02 j 02:10	29°♋21'17		
opposition	-7528 Mar 12 j 23:08	26°♋04'56	2°59'05	
min. Earth dist.	-7528 Mar 13 j 17:11	26°♋01'39	9.19657 AU	
direct	-7528 May 23 j 08:56	22°♋46'47		
evening set	-7528 Sep 01 j 05:04	29°♋42'18		
	-7528 Sep 03 j 18:46	0°♌		
conjunction	-7528 Sep 17 j 12:18	1°♌35'50	2°27'15	
minimum elong	-7528 Sep 17 j 12:18	1°♌35'50	2°27'44	

max. Earth dist.	-7528 Sep 16 j 15:29	1°♌29'45	11.15497 AU	
morning rise	-7528 Oct 03 j 19:17	3°♌29'26		
retrograde	-7527 Jan 12 j 22:37	10°♌28'03		
opposition	-7527 Mar 24 j 21:41	7°♌10'26	2°58'16	
min. Earth dist.	-7527 Mar 25 j 16:17	7°♌07'02	9.11078 AU	
direct	-7527 Jun 03 j 21:05	3°♌52'07		
evening set	-7527 Sep 12 j 07:50	10°♌50'50		
conjunction	-7527 Sep 28 j 15:33	12°♌45'45	2°23'33	
minimum elong	-7527 Sep 28 j 15:35	12°♌45'45	2°23'59	
max. Earth dist.	-7527 Sep 27 j 17:38	12°♌39'16	11.05648 AU	
morning rise	-7527 Oct 15 j 00:12	14°♌41'02		
	-7527 Oct 17 j 18:00	15°♌		
retrograde	-7526 Jan 25 j 02:06	21°♌48'04		
opposition	-7526 Apr 06 j 01:34	18°♌28'57	2°50'38	
min. Earth dist.	-7526 Apr 06 j 20:45	18°♌25'24	8.99971 AU	
direct	-7526 Jun 15 j 11:36	15°♌10'13		
evening set	-7526 Sep 23 j 15:40	22°♌13'34		
max. Earth dist.	-7526 Oct 09 j 02:59	24°♌03'53	10.93471 AU	
conjunction	-7526 Oct 10 j 00:59	24°♌10'28	2°14'10	
minimum elong	-7526 Oct 10 j 01:01	24°♌10'29	2°14'30	
morning rise	-7526 Oct 26 j 12:24	26°♌08'02		
	-7526 Dec 01 j 10:42	0°♍		
retrograde	-7525 Feb 06 j 12:13	3°♍25'03		
opposition	-7525 Apr 18 j 11:46	0°♍04'10	2°35'58	
min. Earth dist.	-7525 Apr 19 j 06:30	0°♍00'40	8.86723 AU	
	-7525 Apr 19 j 10:05	30°℞♌		
direct	-7525 Jun 27 j 08:04	26°♌44'49		
	-7525 Aug 30 j 07:17	0°♍		
evening set	-7525 Oct 05 j 06:17	3°♍54'17		
conjunction	-7525 Oct 21 j 18:30	5°♍53'44	1°59'00	
minimum elong	-7525 Oct 21 j 18:33	5°♍53'45	1°59'15	
max. Earth dist.	-7525 Oct 20 j 22:32	5°♍47'40	10.79394 AU	
morning rise	-7525 Nov 07 j 09:36	7°♍54'10		
retrograde	-7524 Feb 19 j 10:36	15°♍22'31		
opposition	-7524 Apr 30 j 05:30	11°♍59'43	2°14'12	
min. Earth dist.	-7524 Apr 30 j 22:00	11°♍56'36	8.71826 AU	
direct	-7524 Jul 08 j 11:13	8°♍39'36		
evening set	-7524 Oct 16 j 05:44	15°♍56'29		
conjunction	-7524 Nov 01 j 21:50	17°♍59'03	1°38'13	
minimum elong	-7524 Nov 01 j 21:54	17°♍59'04	1°38'22	
max. Earth dist.	-7524 Nov 01 j 04:29	17°♍53'41	10.63949 AU	
morning rise	-7524 Nov 18 j 17:35	20°♍02'52		
retrograde	-7523 Mar 03 j 20:30	27°♍43'38		
opposition	-7523 May 13 j 07:28	24°♍18'52	1°45'35	
min. Earth dist.	-7523 May 13 j 20:58	24°♍16'16	8.55867 AU	
direct	-7523 Jul 20 j 19:24	20°♍57'48		
evening set	-7523 Oct 28 j 16:12	28°♍23'26		
	-7523 Nov 10 j 14:45	0°♎		
conjunction	-7523 Nov 14 j 12:51	0°♎29'31	1°12'12	
minimum elong	-7523 Nov 14 j 12:54	0°♎29'32	1°12'15	
max. Earth dist.	-7523 Nov 13 j 22:02	0°♎24'52	10.47772 AU	
morning rise	-7523 Dec 01 j 14:01	2°♎37'05		
retrograde	-7522 Mar 17 j 15:49	10°♎30'55		
opposition	-7522 May 26 j 18:08	7°♎04'14	1°10'43	
min. Earth dist.	-7522 May 27 j 04:30	7°♎02'12	8.39551 AU	
direct	-7522 Aug 02 j 13:07	3°♎42'05		
evening set	-7522 Nov 10 j 15:09	11°♎17'38		
conjunction	-7522 Nov 27 j 16:51	13°♎27'28	0°41'44	
minimum elong	-7522 Nov 27 j 16:53	13°♎27'29	0°41'41	
max. Earth dist.	-7522 Nov 27 j 05:15	13°♎23'46	10.31614 AU	
morning rise	-7522 Dec 14 j 23:53	15°♎39'01		

Attention, astronomical year style is used: The year -7521 in astronomical counting style is the year 7522 BCE in historical counting style.

retrograde	-7521 Mar 31 j 22:42	23°♎46'03	
opposition	-7521 Jun 09 j 13:59	20°♎17'33	0°30'46
min. Earth dist.	-7521 Jun 09 j 20:58	20°♎16'10	8.23689 AU
direct	-7521 Aug 15 j 17:05	16°♎54'13	
evening set	-7521 Nov 24 j 03:50	24°♎40'27	
conjunction	-7521 Dec 11 j 10:54	26°♎54'05	0°08'05
minimum elong	-7521 Dec 11 j 10:55	26°♎54'05	0°07'55
behind sun begin	-7521 Dec 11 j 04:28	26°♎52'01	
behind sun end	-7521 Dec 11 j 17:21	26°♎56'09	
max. Earth dist.	-7521 Dec 11 j 04:07	26°♎51'54	10.16311 AU
morning rise	-7521 Dec 28 j 23:42	29°♎09'36	
	-7520 Jan 04 j 16:00	0°♏	
desc. node	-7520 Mar 08 j 01:47	6°♏16'35	
retrograde	-7520 Apr 14 j 16:03	7°♏29'12	
opposition	-7520 Jun 22 j 18:28	3°♏59'06	-0°12'26
min. Earth dist.	-7520 Jun 22 j 21:28	3°♏58'30	8.09162 AU
direct	-7520 Aug 28 j 07:03	0°♏34'31	
evening set	-7520 Dec 07 j 07:17	8°♏31'46	
conjunction	-7520 Dec 24 j 19:38	10°♏49'00	-0°27'09
minimum elong	-7520 Dec 24 j 19:37	10°♏48'59	0°27'25
max. Earth dist.	-7520 Dec 24 j 18:43	10°♏48'42	10.02751 AU
morning rise	-7519 Jan 11 j 13:38	13°♏08'07	
	-7519 Jan 26 j 09:33	15°♏	
retrograde	-7519 Apr 29 j 18:02	21°♏38'40	
opposition	-7519 Jul 07 j 06:23	18°♏07'18	-0°56'23
min. Earth dist.	-7519 Jul 07 j 04:41	18°♏07'39	7.96860 AU
	-7519 Aug 24 j 06:26	15°℞♏	
direct	-7519 Sep 11 j 07:36	14°♏41'27	
	-7519 Sep 29 j 05:10	15°♏	
evening set	-7519 Dec 22 j 01:05	22°♏49'22	
conjunction	-7518 Jan 08 j 18:08	25°♏09'41	-1°01'34
minimum elong	-7518 Jan 08 j 18:05	25°♏09'40	1°01'56
max. Earth dist.	-7518 Jan 08 j 23:30	25°♏11'28	9.91811 AU
morning rise	-7518 Jan 26 j 16:22	27°♏31'45	
	-7518 Feb 15 j 07:17	0°♐	
retrograde	-7518 May 15 j 01:52	6°♐10'36	
opposition	-7518 Jul 22 j 00:25	2°♐38'24	-1°37'59
min. Earth dist.	-7518 Jul 21 j 17:47	2°♐39'47	7.87617 AU
	-7518 Aug 27 j 08:29	30°℞♏	
direct	-7518 Sep 25 j 18:07	29°♏11'22	
	-7518 Oct 24 j 18:42	0°♐	
evening set	-7517 Jan 06 j 07:24	7°♐28'38	
conjunction	-7517 Jan 24 j 04:17	9°♐51'16	-1°32'45
minimum elong	-7517 Jan 24 j 04:13	9°♐51'15	1°33'12
max. Earth dist.	-7517 Jan 24 j 15:57	9°♐55'10	9.84283 AU
morning rise	-7517 Feb 11 j 05:35	12°♐15'22	
retrograde	-7517 May 30 j 12:26	20°♐58'54	
opposition	-7517 Aug 05 j 22:12	17°♐26'21	-2°13'55
min. Earth dist.	-7517 Aug 05 j 10:59	17°♐28'41	7.82114 AU
direct	-7517 Oct 10 j 12:01	13°♐58'13	
evening set	-7516 Jan 21 j 23:35	22°♐22'40	
conjunction	-7516 Feb 08 j 23:20	24°♐46'38	-1°58'10
minimum elong	-7516 Feb 08 j 23:16	24°♐46'37	1°58'40
max. Earth dist.	-7516 Feb 09 j 16:27	24°♐52'23	9.80754 AU
morning rise	-7516 Feb 27 j 02:27	27°♐11'42	
	-7516 Mar 20 j 06:46	0°♑	
retrograde	-7516 Jun 13 j 22:22	5°♑55'26	
opposition	-7516 Aug 19 j 20:52	2°♑23'05	-2°41'06
min. Earth dist.	-7516 Aug 19 j 06:10	2°♑26'10	7.80780 AU
	-7516 Sep 20 j 04:10	30°℞♐	
direct	-7516 Oct 24 j 11:33	28°♐54'03	
	-7516 Nov 27 j 12:10	0°♑	

evening set	-7515 Feb 05 j 21:15	7°♑22'35	
conjunction	-7515 Feb 23 j 22:49	9°♑46'50	-2°15'45
minimum elong	-7515 Feb 23 j 22:47	9°♑46'49	2°16'15
max. Earth dist.	-7515 Feb 24 j 20:00	9°♑53'56	9.81515 AU
morning rise	-7515 Mar 14 j 02:33	12°♑11'44	
retrograde	-7515 Jun 29 j 03:43	20°♑51'01	
opposition	-7515 Sep 03 j 17:43	17°♑19'24	-2°57'18
min. Earth dist.	-7515 Sep 03 j 00:52	17°♑22'57	7.83718 AU
direct	-7515 Nov 08 j 14:10	13°♑49'43	
evening set	-7514 Feb 21 j 19:11	22°♑18'40	
conjunction	-7514 Mar 11 j 21:37	24°♑42'10	-2°24'09
minimum elong	-7514 Mar 11 j 21:36	24°♑42'10	2°24'37
max. Earth dist.	-7514 Mar 12 j 21:18	24°♑50'03	9.86507 AU
morning rise	-7514 Mar 30 j 00:53	27°♑05'51	
	-7514 Apr 22 j 06:56	0°♒	
retrograde	-7514 Jul 14 j 01:05	5°♒36'27	
opposition	-7514 Sep 18 j 09:53	2°♒06'00	-3°01'29
min. Earth dist.	-7514 Sep 17 j 16:02	2°♒09'44	7.90683 AU
	-7514 Oct 15 j 08:11	30°℞♑	
direct	-7514 Nov 23 j 17:18	28°♑35'59	
	-7513 Jan 01 j 21:23	0°♒	
evening set	-7513 Mar 09 j 12:41	7°♒01'38	
conjunction	-7513 Mar 27 j 15:11	9°♒23'31	-2°23'02
minimum elong	-7513 Mar 27 j 15:13	9°♒23'31	2°23'27
max. Earth dist.	-7513 Mar 28 j 15:30	9°♒31'30	9.95322 AU
morning rise	-7513 Apr 14 j 17:10	11°♒45'06	
	-7513 May 11 j 06:42	15°♒	
retrograde	-7513 Jul 28 j 11:22	20°♒03'39	
opposition	-7513 Oct 02 j 18:53	16°♒34'43	-2°53'54
min. Earth dist.	-7513 Oct 02 j 01:15	16°♒38'23	8.01102 AU
	-7513 Oct 22 j 12:01	15°℞♒	
direct	-7513 Dec 08 j 17:43	13°♒04'42	
	-7512 Jan 24 j 10:44	15°♒	
evening set	-7512 Mar 23 j 21:36	21°♒23'51	
conjunction	-7512 Apr 10 j 23:25	23°♒43'26	-2°13'00
minimum elong	-7512 Apr 10 j 23:29	23°♒43'27	2°13'20
max. Earth dist.	-7512 Apr 11 j 22:21	23°♒50'51	10.07222 AU
morning rise	-7512 Apr 28 j 23:24	26°♒02'17	
	-7512 Jun 01 j 13:20	0°♓	
retrograde	-7512 Aug 10 j 08:39	4°♓06'48	
opposition	-7512 Oct 15 j 19:23	0°♓39'40	-2°35'56
min. Earth dist.	-7512 Oct 15 j 02:49	0°♓43'04	8.14125 AU
	-7512 Oct 23 j 21:27	30°℞♒	
direct	-7512 Dec 22 j 11:38	27°♒10'02	
	-7511 Feb 18 j 15:02	0°♓	
evening set	-7511 Apr 07 j 19:03	5°♓20'22	
conjunction	-7511 Apr 25 j 19:23	7°♓37'10	-1°55'22
minimum elong	-7511 Apr 25 j 19:27	7°♓37'11	1°55'36
max. Earth dist.	-7511 Apr 26 j 15:43	7°♓43'39	10.21275 AU
morning rise	-7511 May 13 j 16:39	9°♓52'53	
retrograde	-7511 Aug 23 j 18:45	17°♓42'49	
opposition	-7511 Oct 29 j 10:38	14°♓17'37	-2°09'39
min. Earth dist.	-7511 Oct 28 j 19:32	14°♓20'41	8.28848 AU
direct	-7510 Jan 05 j 20:38	10°♓48'44	
evening set	-7510 Apr 22 j 03:35	18°♓48'55	
conjunction	-7510 May 10 j 01:44	21°♓02'40	-1°31'51
minimum elong	-7510 May 10 j 01:48	21°♓02'41	1°31'59
max. Earth dist.	-7510 May 10 j 19:16	21°♓08'09	10.36625 AU
morning rise	-7510 May 27 j 19:41	23°♓15'03	
	-7510 Aug 06 j 04:32	0°♈	
retrograde	-7510 Sep 05 j 18:56	0°♈50'43	

Attention, astronomical year style is used: The year -7510 in astronomical counting style is the year 7511 BCE in historical counting style.

	-7510 Oct 06 j 15:51	30°℞♓	
opposition	-7510 Nov 11 j 16:36	27°♓27'30	-1°37'24
min. Earth dist.	-7510 Nov 11 j 03:53	27°♓30'02	8.44492 AU
direct	-7509 Jan 19 j 19:09	23°♓59'36	
	-7509 Apr 20 j 11:32	0°♈	
evening set	-7509 May 05 j 22:46	1°♈48'59	
conjunction	-7509 May 23 j 17:58	3°♈59'33	-1°04'19
minimum elong	-7509 May 23 j 18:01	3°♈59'34	1°04'20
max. Earth dist.	-7509 May 24 j 08:03	4°♈03'53	10.52504 AU
morning rise	-7509 Jun 10 j 08:08	6°♈08'34	
retrograde	-7509 Sep 18 j 07:16	13°♈30'59	
opposition	-7509 Nov 24 j 13:48	10°♈09'40	-1°01'32
min. Earth dist.	-7509 Nov 24 j 04:27	10°♈11'31	8.60309 AU
direct	-7508 Feb 02 j 09:18	6°♈42'54	
evening set	-7508 May 18 j 05:01	14°♈21'35	
conjunction	-7508 Jun 04 j 20:24	16°♈28'54	-0°34'32
minimum elong	-7508 Jun 04 j 20:26	16°♈28'54	0°34'27
max. Earth dist.	-7508 Jun 05 j 06:05	16°♈31'49	10.68160 AU
morning rise	-7508 Jun 22 j 06:25	18°♈34'36	
retrograde	-7508 Sep 29 j 09:52	25°♈45'21	
opposition	-7508 Dec 06 j 02:53	22°♈25'46	-0°24'06
min. Earth dist.	-7508 Dec 05 j 21:25	22°♈26'50	8.75586 AU
direct	-7507 Feb 14 j 14:00	19°♈00'13	
evening set	-7507 May 30 j 22:58	26°♈28'45	
conjunction	-7507 Jun 17 j 10:00	28°♈32'56	-0°04'07
minimum elong	-7507 Jun 17 j 10:00	28°♈32'56	0°03'56
behind sun begin	-7507 Jun 17 j 02:57	28°♈30'52	
behind sun end	-7507 Jun 17 j 17:03	28°♈35'01	
max. Earth dist.	-7507 Jun 17 j 14:24	28°♈34'13	10.82913 AU
	-7507 Jun 29 j 14:42	0°♉	
morning rise	-7507 Jul 04 j 15:43	0°♉35'32	
asc. node	-7507 Aug 07 j 04:33	4°♉12'37	
retrograde	-7507 Oct 11 j 04:45	7°♉36'31	
opposition	-7507 Dec 18 j 08:48	4°♉18'23	0°13'05
min. Earth dist.	-7507 Dec 18 j 06:33	4°♉18'49	8.89675 AU
direct	-7506 Feb 27 j 08:52	0°♉54'05	
evening set	-7506 Jun 12 j 05:38	8°♉13'25	
conjunction	-7506 Jun 29 j 12:08	10°♉14'43	0°25'47
minimum elong	-7506 Jun 29 j 12:07	10°♉14'43	0°26'04
max. Earth dist.	-7506 Jun 29 j 12:10	10°♉14'44	10.96162 AU
morning rise	-7506 Jul 16 j 13:27	12°♉14'31	
	-7506 Aug 10 j 19:05	15°♉	
retrograde	-7506 Oct 22 j 16:47	19°♉07'45	
opposition	-7506 Dec 30 j 08:40	15°♉50'48	0°48'38
min. Earth dist.	-7506 Dec 30 j 09:21	15°♉50'40	9.02010 AU
	-7505 Jan 10 j 17:50	15°℞♉	
direct	-7505 Mar 11 j 20:31	12°♉27'43	
	-7505 May 09 j 00:05	15°♉	
evening set	-7505 Jun 24 j 02:49	19°♉39'07	
conjunction	-7505 Jul 11 j 04:45	21°♉37'51	0°53'52
minimum elong	-7505 Jul 11 j 04:43	21°♉37'50	0°54'14
max. Earth dist.	-7505 Jul 11 j 01:21	21°♉36'51	11.07396 AU
morning rise	-7505 Jul 28 j 01:34	23°♉35'10	
	-7505 Oct 12 j 21:14	0°♊	
retrograde	-7505 Nov 03 j 02:32	0°♊22'46	
	-7505 Nov 24 j 11:33	30°℞♉	
opposition	-7504 Jan 11 j 03:55	27°♉06'43	1°21'24
min. Earth dist.	-7504 Jan 11 j 07:59	27°♉05'57	9.12139 AU
direct	-7504 Mar 22 j 23:10	23°♉44'46	
	-7504 Jun 27 j 06:46	0°♊	
evening set	-7504 Jul 04 j 16:07	0°♊49'38	

conjunction	-7504 Jul 21 j 13:27	2°♊46'11	1°19'22
minimum elong	-7504 Jul 21 j 13:25	2°♊46'10	1°19'48
max. Earth dist.	-7504 Jul 21 j 06:24	2°♊44'08	11.16236 AU
morning rise	-7504 Aug 07 j 06:09	4°♊41'29	
retrograde	-7504 Nov 13 j 07:14	11°♊25'31	
opposition	-7503 Jan 21 j 20:07	8°♊10'02	1°50'30
min. Earth dist.	-7503 Jan 22 j 04:07	8°♊08'34	9.19744 AU
direct	-7503 Apr 03 j 18:47	4°♊49'06	
evening set	-7503 Jul 15 j 23:00	11°♊48'56	
conjunction	-7503 Aug 01 j 15:59	13°♊43'44	1°41'34
minimum elong	-7503 Aug 01 j 15:56	13°♊43'43	1°42'03
max. Earth dist.	-7503 Aug 01 j 04:35	13°♊40'26	11.22417 AU
morning rise	-7503 Aug 18 j 05:12	15°♊37'30	
retrograde	-7503 Nov 24 j 11:45	22°♊20'03	
opposition	-7502 Feb 02 j 10:21	19°♊04'49	2°15'13
min. Earth dist.	-7502 Feb 02 j 21:21	19°♊02'49	9.24584 AU
direct	-7502 Apr 15 j 12:13	15°♊44'44	
evening set	-7502 Jul 27 j 01:20	22°♊41'05	
conjunction	-7502 Aug 12 j 14:41	24°♊34'39	1°59'55
minimum elong	-7502 Aug 12 j 14:38	24°♊34'38	2°00'24
max. Earth dist.	-7502 Aug 12 j 00:16	24°♊30'30	11.25756 AU
morning rise	-7502 Aug 29 j 00:58	26°♊27'23	
	-7502 Oct 02 j 05:43	0°♋	
retrograde	-7502 Dec 05 j 16:36	3°♋10'24	
	-7501 Feb 12 j 21:03	30°℞♊	
opposition	-7501 Feb 13 j 23:52	29°♊55'07	2°34'58
min. Earth dist.	-7501 Feb 14 j 12:43	29°♊52'47	9.26503 AU
direct	-7501 Apr 27 j 00:33	26°♊35'46	
	-7501 Jul 04 j 07:55	0°♋	
evening set	-7501 Aug 07 j 00:48	3°♋30'08	
conjunction	-7501 Aug 23 j 11:18	5°♋23'00	2°13'54
minimum elong	-7501 Aug 23 j 11:16	5°♋22'59	2°14'23
max. Earth dist.	-7501 Aug 22 j 19:19	5°♋18'23	11.26146 AU
morning rise	-7501 Sep 08 j 19:19	7°♋15'17	
retrograde	-7501 Dec 17 j 01:26	14°♋00'41	
opposition	-7500 Feb 25 j 14:36	10°♋45'04	2°49'14
min. Earth dist.	-7500 Feb 26 j 05:23	10°♋42'22	9.25438 AU
direct	-7500 May 07 j 11:16	7°♋26'15	
evening set	-7500 Aug 16 j 23:03	14°♋20'07	
conjunction	-7500 Sep 02 j 07:25	16°♋12'52	2°23'07
minimum elong	-7500 Sep 02 j 07:24	16°♋12'52	2°23'36
max. Earth dist.	-7500 Sep 01 j 13:08	16°♋07'34	11.23577 AU
morning rise	-7500 Sep 18 j 14:17	18°♋05'17	
retrograde	-7500 Dec 27 j 12:37	24°♋54'53	
opposition	-7499 Mar 08 j 07:45	21°♋38'39	2°57'33
min. Earth dist.	-7499 Mar 09 j 00:40	21°♋35'34	9.21426 AU
direct	-7499 May 18 j 20:06	18°♋20'11	
evening set	-7499 Aug 27 j 22:03	25°♋15'03	
max. Earth dist.	-7499 Sep 12 j 08:56	27°♋02'19	11.18131 AU
conjunction	-7499 Sep 13 j 05:16	27°♋08'15	2°27'12
minimum elong	-7499 Sep 13 j 05:17	27°♋08'15	2°27'41
morning rise	-7499 Sep 29 j 12:10	29°♋01'25	
	-7499 Oct 08 j 04:21	0°♌	
retrograde	-7498 Jan 08 j 04:46	5°♌57'00	
opposition	-7498 Mar 20 j 04:16	2°♌39'48	2°59'30
min. Earth dist.	-7498 Mar 20 j 22:31	2°♌36'28	9.14581 AU
	-7498 May 01 j 13:59	30°℞♋	
direct	-7498 May 30 j 08:09	29°♋21'26	
	-7498 Jun 27 j 14:19	0°♌	
evening set	-7498 Sep 07 j 23:20	6°♌18'50	
max. Earth dist.	-7498 Sep 23 j 10:16	8°♌07'05	11.09962 AU

Attention, astronomical year style is used: The year -7498 in astronomical counting style is the year 7499 BCE in historical counting style.

conjunction	-7498 Sep 24 j 06:40	8°♌13'06	2°25'52
minimum elong	-7498 Sep 24 j 06:42	8°♌13'06	2°26'19
morning rise	-7498 Oct 10 j 14:33	10°♌07'36	
	-7498 Nov 28 j 05:09	15°♌	
retrograde	-7497 Jan 20 j 05:51	17°♌10'51	
	-7497 Mar 16 j 14:31	15°℞♌	
opposition	-7497 Apr 01 j 05:42	13°♌52'26	2°54'46
min. Earth dist.	-7497 Apr 01 j 23:33	13°♌49'09	9.05102 AU
direct	-7497 Jun 10 j 22:42	10°♌34'00	
	-7497 Aug 26 j 20:11	15°♌	
evening set	-7497 Sep 19 j 04:45	17°♌35'15	
conjunction	-7497 Oct 05 j 13:20	19°♌31'12	2°18'53
minimum elong	-7497 Oct 05 j 13:22	19°♌31'13	2°19'16
max. Earth dist.	-7497 Oct 04 j 17:37	19°♌25'20	10.99320 AU
morning rise	-7497 Oct 21 j 23:15	21°♌27'41	
retrograde	-7496 Feb 01 j 14:08	28°♌40'09	
opposition	-7496 Apr 12 j 13:17	25°♌20'16	2°43'03
min. Earth dist.	-7496 Apr 13 j 06:13	25°♌17'08	8.93302 AU
direct	-7496 Jun 21 j 15:34	22°♌01'32	
evening set	-7496 Sep 29 j 16:27	29°♌08'05	
	-7496 Oct 06 j 22:59	0°♍	
max. Earth dist.	-7496 Oct 15 j 07:51	1°♍00'27	10.86574 AU
conjunction	-7496 Oct 16 j 03:16	1°♍06'18	2°06'08
minimum elong	-7496 Oct 16 j 03:19	1°♍06'19	2°06'26
morning rise	-7496 Nov 01 j 16:32	3°♍05'21	
retrograde	-7495 Feb 13 j 08:12	10°♍28'23	
opposition	-7495 Apr 25 j 03:49	7°♍06'52	2°24'15
min. Earth dist.	-7495 Apr 25 j 19:55	7°♍03'50	8.79607 AU
direct	-7495 Jul 03 j 14:46	3°♍47'34	
evening set	-7495 Oct 11 j 12:06	11°♍00'47	
max. Earth dist.	-7495 Oct 27 j 07:46	12°♍56'10	10.72186 AU
conjunction	-7495 Oct 28 j 02:12	13°♍01'48	1°47'41
minimum elong	-7495 Oct 28 j 02:16	13°♍01'49	1°47'53
morning rise	-7495 Nov 13 j 19:54	15°♍03'58	
retrograde	-7494 Feb 26 j 11:43	22°♍38'44	
opposition	-7494 May 08 j 02:13	19°♍15'25	1°58'28
min. Earth dist.	-7494 May 08 j 16:59	19°♍12'36	8.64523 AU
direct	-7494 Jul 15 j 20:36	15°♍55'20	
evening set	-7494 Oct 23 j 17:30	23°♍16'32	
conjunction	-7494 Nov 09 j 11:53	25°♍20'49	1°23'49
minimum elong	-7494 Nov 09 j 11:57	25°♍20'50	1°23'54
max. Earth dist.	-7494 Nov 08 j 20:16	25°♍15'57	10.56687 AU
morning rise	-7494 Nov 26 j 10:37	27°♍26'30	
	-7494 Dec 18 j 07:42	0°♎	
retrograde	-7493 Mar 12 j 01:18	5°♎13'53	
opposition	-7493 May 21 j 08:59	1°♎48'39	1°26'10
min. Earth dist.	-7493 May 21 j 21:02	1°♎46'19	8.48641 AU
	-7493 Jun 15 j 03:05	30°℞♍	
direct	-7493 Jul 28 j 11:56	28°♍27'36	
	-7493 Sep 08 j 09:35	0°♎	
evening set	-7493 Nov 05 j 10:32	5°♎57'58	
conjunction	-7493 Nov 22 j 09:56	8°♎05'53	0°55'09
minimum elong	-7493 Nov 22 j 09:59	8°♎05'53	0°55'08
max. Earth dist.	-7493 Nov 21 j 21:58	8°♎02'05	10.40695 AU
morning rise	-7493 Dec 09 j 14:10	10°♎15'24	
retrograde	-7492 Mar 25 j 03:41	18°♎15'50	
opposition	-7492 Jun 03 j 00:30	14°♎48'44	0°48'16
min. Earth dist.	-7492 Jun 03 j 08:58	14°♎47'04	8.32631 AU
direct	-7492 Aug 09 j 11:10	11°♎26'33	
evening set	-7492 Nov 17 j 16:48	19°♎07'09	
conjunction	-7492 Dec 04 j 21:31	21°♎18'52	0°22'43
minimum elong	-7492 Dec 04 j 21:33	21°♎18'52	0°22'35
max. Earth dist.	-7492 Dec 04 j 13:23	21°♎16'15	10.24931 AU
morning rise	-7492 Dec 22 j 07:31	23°♎32'22	
	-7491 Feb 21 j 19:34	0°♏	
retrograde	-7491 Apr 08 j 17:12	1°♏45'42	
	-7491 May 25 j 11:13	30°℞♎	
opposition	-7491 Jun 17 j 00:47	28°♎16'53	0°06'16
min. Earth dist.	-7491 Jun 17 j 05:09	28°♎16'01	8.17308 AU
desc. node	-7491 Aug 10 j 09:57	25°♎02'01	
direct	-7491 Aug 22 j 19:18	24°♎53'27	
	-7491 Nov 09 j 01:38	0°♏	
evening set	-7491 Dec 01 j 13:31	2°♏45'01	
conjunction	-7491 Dec 18 j 23:26	5°♏00'27	-0°12'04
minimum elong	-7491 Dec 18 j 23:25	5°♏00'27	0°12'18
behind sun begin	-7491 Dec 18 j 18:38	4°♏58'54	
behind sun end	-7491 Dec 19 j 04:12	5°♏01'59	
max. Earth dist.	-7491 Dec 18 j 19:27	4°♏59'10	10.10298 AU
morning rise	-7490 Jan 05 j 14:56	7°♏17'45	
	-7490 Mar 26 j 00:35	15°♏	
retrograde	-7490 Apr 23 j 15:40	15°♏42'55	
	-7490 May 22 j 08:40	15°℞♏	
opposition	-7490 Jul 01 j 09:09	12°♏12'36	-0°37'37
min. Earth dist.	-7490 Jul 01 j 09:27	12°♏12'32	8.03652 AU
direct	-7490 Sep 05 j 14:22	8°♏47'49	
	-7490 Dec 01 j 11:00	15°♏	
evening set	-7490 Dec 16 j 00:40	16°♏50'21	
conjunction	-7489 Jan 02 j 15:26	19°♏09'08	-0°47'01
minimum elong	-7489 Jan 02 j 15:23	19°♏09'07	0°47'22
max. Earth dist.	-7489 Jan 02 j 16:32	19°♏09'30	9.97795 AU
morning rise	-7489 Jan 20 j 11:46	21°♏29'45	
	-7489 Apr 29 j 16:07	0°♐	
retrograde	-7489 May 08 j 20:50	0°♐04'34	
	-7489 May 18 j 00:32	30°℞♏	
opposition	-7489 Jul 16 j 00:24	26°♏33'06	-1°20'33
min. Earth dist.	-7489 Jul 15 j 20:38	26°♏33'52	7.92624 AU
direct	-7489 Sep 19 j 20:34	23°♏06'54	
	-7489 Dec 20 j 17:41	0°♐	
evening set	-7489 Dec 31 j 01:11	1°♐19'32	
conjunction	-7488 Jan 17 j 20:12	3°♐41'03	-1°19'52
minimum elong	-7488 Jan 17 j 20:08	3°♐41'01	1°20'18
max. Earth dist.	-7488 Jan 18 j 02:57	3°♐43'18	9.88312 AU
morning rise	-7488 Feb 04 j 20:18	6°♐04'10	
retrograde	-7488 May 23 j 05:22	14°♐45'26	
opposition	-7488 Jul 29 j 20:22	11°♐13'12	-1°59'16
min. Earth dist.	-7488 Jul 29 j 12:38	11°♐14'49	7.85009 AU
direct	-7488 Oct 03 j 11:28	7°♐45'39	
evening set	-7487 Jan 14 j 12:56	16°♐06'39	
conjunction	-7487 Feb 01 j 11:18	18°♐29'58	-1°48'03
minimum elong	-7487 Feb 01 j 11:14	18°♐29'57	1°48'31
max. Earth dist.	-7487 Feb 01 j 23:34	18°♐34'05	9.82543 AU
morning rise	-7487 Feb 19 j 13:49	20°♐54'36	
retrograde	-7487 Jun 07 j 14:41	29°♐38'10	
opposition	-7487 Aug 13 j 18:22	26°♐05'43	-2°30'35
min. Earth dist.	-7487 Aug 13 j 06:59	26°♐08'06	7.81359 AU
direct	-7487 Oct 18 j 08:58	22°♐36'58	
	-7486 Jan 22 j 04:02	0°♑	
evening set	-7486 Jan 30 j 07:56	1°♑03'36	
conjunction	-7486 Feb 17 j 08:41	3°♑27'44	-2°09'14
minimum elong	-7486 Feb 17 j 08:37	3°♑27'43	2°09'44
max. Earth dist.	-7486 Feb 18 j 02:02	3°♑33'33	9.80925 AU
morning rise	-7486 Mar 07 j 12:18	5°♑52'44	
retrograde	-7486 Jun 22 j 21:19	14°♑34'07	

Attention, astronomical year style is used: The year -7486 in astronomical counting style is the year 7487 BCE in historical counting style.

opposition	-7486 Aug 28 j 15:48	11°♒01'56	-2°51'48
min. Earth dist.	-7486 Aug 28 j 01:06	11°♒05'02	7.81933 AU
direct	-7486 Nov 02 j 10:37	7°♒32'15	
evening set	-7485 Feb 15 j 05:25	16°♒01'05	
conjunction	-7485 Mar 05 j 07:38	18°♒25'00	-2°21'45
minimum elong	-7485 Mar 05 j 07:36	18°♒25'00	2°22'14
max. Earth dist.	-7485 Mar 06 j 04:59	18°♒32'08	9.83573 AU
morning rise	-7485 Mar 23 j 11:15	20°♒49'19	
retrograde	-7485 Jul 07 j 21:42	29°♒24'05	
opposition	-7485 Sep 12 j 09:45	25°♒52'41	-3°01'19
min. Earth dist.	-7485 Sep 11 j 16:45	25°♒56'15	7.86653 AU
direct	-7485 Nov 17 j 13:20	22°♒22'23	
	-7484 Feb 24 j 13:53	0°♓	
evening set	-7484 Mar 02 j 00:56	0°♓49'47	
conjunction	-7484 Mar 20 j 03:42	3°♓12'33	-2°24'49
minimum elong	-7484 Mar 20 j 03:43	3°♓12'33	2°25'15
max. Earth dist.	-7484 Mar 21 j 03:16	3°♓20'21	9.90254 AU
morning rise	-7484 Apr 07 j 06:21	5°♓35'13	
retrograde	-7484 Jul 21 j 13:08	13°♓59'34	
opposition	-7484 Sep 25 j 21:43	10°♓29'25	-2°58'51
min. Earth dist.	-7484 Sep 25 j 03:50	10°♓33'09	7.95137 AU
direct	-7484 Dec 01 j 14:21	6°♓58'52	
	-7483 Mar 14 j 18:35	15°♓	
evening set	-7483 Mar 17 j 13:47	15°♓21'25	
conjunction	-7483 Apr 04 j 16:14	17°♓42'13	-2°18'36
minimum elong	-7483 Apr 04 j 16:17	17°♓42'14	2°18'58
max. Earth dist.	-7483 Apr 05 j 16:13	17°♓50'03	10.00448 AU
morning rise	-7483 Apr 22 j 17:07	20°♓02'28	
retrograde	-7483 Aug 04 j 16:42	28°♓13'46	
min. Earth dist.	-7483 Oct 09 j 08:38	24°♓48'51	8.06761 AU
opposition	-7483 Oct 10 j 02:04	24°♓45'14	-2°45'15
direct	-7483 Dec 16 j 10:08	21°♓14'51	
evening set	-7482 Apr 01 j 16:18	29°♓29'39	
	-7482 Apr 05 j 16:20	0°♈	
conjunction	-7482 Apr 19 j 17:35	1°♈47'54	-2°04'08
minimum elong	-7482 Apr 19 j 17:39	1°♈47'55	2°04'24
max. Earth dist.	-7482 Apr 20 j 16:17	1°♈55'12	10.13427 AU
morning rise	-7482 May 07 j 16:06	4°♈05'12	
retrograde	-7482 Aug 18 j 08:34	12°♈02'05	
opposition	-7482 Oct 23 j 21:31	8°♈35'25	-2°22'22
min. Earth dist.	-7482 Oct 23 j 05:50	8°♈38'38	8.20742 AU
direct	-7482 Dec 30 j 22:39	5°♈05'35	
evening set	-7481 Apr 16 j 06:41	13°♈10'42	
conjunction	-7481 May 04 j 05:59	15°♈25'58	-1°42'59
minimum elong	-7481 May 04 j 06:03	15°♈26'00	1°43'10
max. Earth dist.	-7481 May 05 j 01:33	15°♈32'09	10.28342 AU
morning rise	-7481 May 22 j 01:36	17°♈40'01	
retrograde	-7481 Aug 31 j 12:29	25°♈22'12	
opposition	-7481 Nov 06 j 07:26	21°♈57'32	-1°52'26
min. Earth dist.	-7481 Nov 05 j 17:58	22°♈00'15	8.36223 AU
direct	-7480 Jan 14 j 02:27	18°♈28'36	
evening set	-7480 Apr 29 j 07:48	26°♈23'00	
conjunction	-7480 May 17 j 04:21	28°♈35'05	-1°17'00
minimum elong	-7480 May 17 j 04:24	28°♈35'06	1°17'04
max. Earth dist.	-7480 May 17 j 19:54	28°♈39'54	10.44310 AU
	-7480 May 28 j 14:54	0°♉	
morning rise	-7480 Jun 03 j 20:29	0°♉45'43	
retrograde	-7480 Sep 12 j 04:13	8°♉13'58	
opposition	-7480 Nov 18 j 08:18	4°♉51'19	-1°17'52
min. Earth dist.	-7480 Nov 17 j 21:03	4°♉53'33	8.52340 AU
direct	-7479 Jan 26 j 21:46	1°♉23'34	
evening set	-7479 May 12 j 19:23	9°♉07'00	
conjunction	-7479 May 30 j 12:32	11°♉15'48	-0°48'00
minimum elong	-7479 May 30 j 12:34	11°♉15'48	0°47'57
max. Earth dist.	-7479 May 31 j 00:20	11°♉19'24	10.60483 AU
morning rise	-7479 Jun 17 j 00:39	13°♉23'02	
retrograde	-7479 Sep 24 j 11:05	20°♉38'49	
opposition	-7479 Dec 01 j 00:36	17°♉18'05	-0°40'52
min. Earth dist.	-7479 Nov 30 j 15:50	17°♉19'48	8.68292 AU
direct	-7478 Feb 09 j 06:15	13°♉51'42	
evening set	-7478 May 25 j 18:23	21°♉24'35	
conjunction	-7478 Jun 12 j 07:35	23°♉30'11	-0°17'39
minimum elong	-7478 Jun 12 j 07:36	23°♉30'11	0°17'31
max. Earth dist.	-7478 Jun 12 j 15:50	23°♉32'38	10.76091 AU
morning rise	-7478 Jun 29 j 15:19	25°♉34'09	
	-7478 Aug 10 j 18:12	0°♊	
retrograde	-7478 Oct 06 j 10:30	2°♊39'13	
	-7478 Dec 04 j 17:04	30°℞♉	
opposition	-7478 Dec 13 j 09:14	29°♉20'16	-0°03'21
min. Earth dist.	-7478 Dec 13 j 04:03	29°♉21'16	8.83359 AU
asc. node	-7477 Jan 16 j 01:41	26°♉59'57	
direct	-7477 Feb 22 j 03:43	25°♉55'20	
	-7477 May 07 j 18:12	0°♊	
evening set	-7477 Jun 07 j 05:58	3°♊18'33	
conjunction	-7477 Jun 24 j 14:43	5°♊21'07	0°12'41
minimum elong	-7477 Jun 24 j 14:43	5°♊21'07	0°12'56
behind sun begin	-7477 Jun 24 j 10:22	5°♊19'51	
behind sun end	-7477 Jun 24 j 19:03	5°♊22'23	
max. Earth dist.	-7477 Jun 24 j 18:42	5°♊22'17	10.90456 AU
morning rise	-7477 Jul 11 j 17:56	7°♊22'07	
retrograde	-7477 Oct 18 j 01:32	14°♊18'29	
opposition	-7477 Dec 25 j 11:42	11°♊01'05	0°33'07
min. Earth dist.	-7477 Dec 25 j 10:42	11°♊01'16	8.96920 AU
direct	-7476 Mar 05 j 17:24	7°♊37'33	
evening set	-7476 Jun 18 j 07:28	14°♊52'18	
	-7476 Jun 19 j 10:20	15°♊	
conjunction	-7476 Jul 05 j 11:23	16°♊52'06	0°41'41
minimum elong	-7476 Jul 05 j 11:21	16°♊52'06	0°42'00
max. Earth dist.	-7476 Jul 05 j 10:13	16°♊51'46	11.03017 AU
morning rise	-7476 Jul 22 j 10:13	18°♊50'27	
retrograde	-7476 Oct 28 j 11:45	25°♊40'15	
opposition	-7475 Jan 05 j 09:04	22°♊24'03	1°07'16
min. Earth dist.	-7475 Jan 05 j 11:42	22°♊23'34	9.08459 AU
direct	-7475 Mar 18 j 00:16	19°♊01'53	
evening set	-7475 Jun 30 j 00:19	26°♊09'28	
conjunction	-7475 Jul 16 j 23:34	28°♊06'53	1°08'27
minimum elong	-7475 Jul 16 j 23:31	28°♊06'52	1°08'51
max. Earth dist.	-7475 Jul 16 j 17:58	28°♊05'16	11.13326 AU
morning rise	-7475 Aug 02 j 18:12	0°♋03'00	
	-7475 Aug 02 j 07:39	0°♋	
retrograde	-7475 Nov 08 j 18:15	6°♋48'19	
opposition	-7474 Jan 17 j 02:30	3°♋32'58	1°38'06
min. Earth dist.	-7474 Jan 17 j 07:52	3°♋31'58	9.17560 AU
direct	-7474 Mar 30 j 00:06	0°♋12'00	
evening set	-7474 Jul 11 j 10:05	7°♋13'51	
conjunction	-7474 Jul 28 j 05:04	9°♋09'19	1°32'12
minimum elong	-7474 Jul 28 j 05:01	9°♋09'18	1°32'40
max. Earth dist.	-7474 Jul 27 j 20:28	9°♋06'50	11.21014 AU
morning rise	-7474 Aug 13 j 19:45	11°♋03'39	
retrograde	-7474 Nov 20 j 01:02	17°♋46'31	
opposition	-7473 Jan 28 j 17:34	14°♋31'41	2°04'51
min. Earth dist.	-7473 Jan 29 j 02:11	14°♋30'06	9.23882 AU

Attention, astronomical year style is used: The year -7473 in astronomical counting style is the year 7474 BCE in historical counting style.

direct	-7473 Apr 10 j 18:40	11°♊11'44	
evening set	-7473 Jul 22 j 14:38	18°♊09'21	
conjunction	-7473 Aug 08 j 05:37	20°♊03'21	1°52'19
minimum elong	-7473 Aug 08 j 05:34	20°♊03'20	1°52'48
max. Earth dist.	-7473 Aug 07 j 17:24	19°♊59'50	11.25787 AU
morning rise	-7473 Aug 24 j 16:57	21°♊56'24	
retrograde	-7473 Dec 01 j 05:08	28°♊38'50	
opposition	-7472 Feb 09 j 07:39	25°♊24'08	2°26'51
min. Earth dist.	-7472 Feb 09 j 20:03	25°♊21'53	9.27181 AU
direct	-7472 Apr 21 j 07:07	22°♊04'59	
evening set	-7472 Aug 01 j 15:36	28°♊59'58	
	-7472 Aug 10 j 10:43	0°♋	
max. Earth dist.	-7472 Aug 17 j 10:45	0°♋48'18	11.27463 AU
conjunction	-7472 Aug 18 j 03:08	0°♋53'01	2°08'16
minimum elong	-7472 Aug 18 j 03:06	0°♋53'00	2°08'46
morning rise	-7472 Sep 03 j 12:05	2°♋45'22	
retrograde	-7472 Dec 11 j 11:32	9°♋29'24	
opposition	-7471 Feb 19 j 22:06	6°♋14'28	2°43'35
min. Earth dist.	-7471 Feb 20 j 13:32	6°♋11'40	9.27314 AU
direct	-7471 May 02 j 20:01	2°♋55'53	
evening set	-7471 Aug 12 j 14:27	9°♋49'49	
conjunction	-7471 Aug 28 j 23:34	11°♋42'30	2°19'38
minimum elong	-7471 Aug 28 j 23:32	11°♋42'29	2°20'07
max. Earth dist.	-7471 Aug 28 j 04:47	11°♋37'04	11.25973 AU
morning rise	-7471 Sep 14 j 06:56	13°♋34'44	
retrograde	-7471 Dec 22 j 21:53	20°♋22'17	
opposition	-7470 Mar 03 j 14:09	17°♋06'46	2°54'34
min. Earth dist.	-7470 Mar 04 j 07:02	17°♋03'42	9.24282 AU
direct	-7470 May 14 j 06:47	13°♋48'32	
evening set	-7470 Aug 23 j 13:13	20°♋42'55	
conjunction	-7470 Sep 08 j 20:56	22°♋35'50	2°26'01
minimum elong	-7470 Sep 08 j 20:56	22°♋35'50	2°26'30
max. Earth dist.	-7470 Sep 08 j 01:00	22°♋30'03	11.21397 AU
morning rise	-7470 Sep 25 j 03:34	24°♋28'35	
	-7470 Nov 23 j 01:47	0°♌	
retrograde	-7469 Jan 03 j 13:09	1°♌21'26	
	-7469 Feb 15 j 05:38	30°℞♋	
opposition	-7469 Mar 15 j 09:13	28°♋04'59	2°59'23
min. Earth dist.	-7469 Mar 16 j 03:11	28°♋01'43	9.18226 AU
direct	-7469 May 25 j 17:39	24°♋46'50	
	-7469 Aug 19 j 02:55	0°♌	
evening set	-7469 Sep 03 j 13:39	1°♌43'08	
conjunction	-7469 Sep 19 j 20:52	3°♌36'54	2°27'06
minimum elong	-7469 Sep 19 j 20:52	3°♌36'54	2°27'33
max. Earth dist.	-7469 Sep 18 j 23:27	3°♌30'38	11.13932 AU
morning rise	-7469 Oct 06 j 04:02	5°♌30'45	
retrograde	-7468 Jan 15 j 10:28	12°♌30'37	
opposition	-7468 Mar 26 j 08:51	9°♌12'54	2°57'39
min. Earth dist.	-7468 Mar 27 j 04:00	9°♌09'24	9.09387 AU
direct	-7468 Jun 05 j 06:02	5°♌54'35	
evening set	-7468 Sep 13 j 17:16	12°♌54'12	
max. Earth dist.	-7468 Sep 29 j 02:44	14°♌42'47	11.03855 AU
conjunction	-7468 Sep 30 j 01:04	14°♌49'24	2°22'37
minimum elong	-7468 Sep 30 j 01:05	14°♌49'24	2°23'01
	-7468 Oct 01 j 12:51	15°♌	
morning rise	-7468 Oct 16 j 10:04	16°♌45'01	
retrograde	-7467 Jan 26 j 13:14	23°♌53'30	
opposition	-7467 Apr 07 j 13:52	20°♌34'13	2°49'03
min. Earth dist.	-7467 Apr 08 j 09:17	20°♌30'38	8.98076 AU
direct	-7467 Jun 16 j 21:56	17°♌15'27	
evening set	-7467 Sep 25 j 02:06	24°♌19'52	

conjunction	-7467 Oct 11 j 11:49	26°♌17'06	2°12'25
minimum elong	-7467 Oct 11 j 11:52	26°♌17'07	2°12'44
max. Earth dist.	-7467 Oct 10 j 14:32	26°♌10'43	10.91504 AU
morning rise	-7467 Oct 27 j 23:37	28°♌15'03	
	-7467 Nov 12 j 06:36	0°♍	
retrograde	-7466 Feb 08 j 03:12	5°♍33'38	
opposition	-7466 Apr 20 j 01:08	2°♍12'34	2°33'23
min. Earth dist.	-7466 Apr 20 j 19:13	2°♍09'11	8.84687 AU
	-7466 May 22 j 08:27	30°℞♌	
direct	-7466 Jun 28 j 20:42	28°♌53'09	
	-7466 Aug 04 j 06:50	0°♍	
evening set	-7466 Oct 06 j 18:00	6°♍03'43	
max. Earth dist.	-7466 Oct 22 j 11:32	7°♍57'46	10.77318 AU
conjunction	-7466 Oct 23 j 06:43	8°♍03'36	1°56'28
minimum elong	-7466 Oct 23 j 06:47	8°♍03'37	1°56'41
morning rise	-7466 Nov 08 j 22:16	10°♍04'28	
retrograde	-7465 Feb 21 j 03:01	17°♍34'26	
opposition	-7465 May 02 j 20:03	14°♍11'26	2°10'39
min. Earth dist.	-7465 May 03 j 11:40	14°♍08'28	8.69719 AU
direct	-7465 Jul 10 j 22:53	10°♍51'13	
evening set	-7465 Oct 18 j 18:52	18°♍09'18	
conjunction	-7465 Nov 04 j 11:25	20°♍12'17	1°34'55
minimum elong	-7465 Nov 04 j 11:29	20°♍12'18	1°35'03
max. Earth dist.	-7465 Nov 03 j 18:08	20°♍06'57	10.61851 AU
morning rise	-7465 Nov 21 j 07:47	22°♍16'34	
retrograde	-7464 Mar 05 j 12:57	29°♍58'58	
opposition	-7464 May 14 j 23:22	26°♍33'58	1°41'07
min. Earth dist.	-7464 May 15 j 12:27	26°♍31'27	8.53788 AU
direct	-7464 Jul 22 j 09:07	23°♍12'47	
	-7464 Oct 24 j 20:47	0°♎	
evening set	-7464 Oct 30 j 06:50	0°♎39'39	
conjunction	-7464 Nov 16 j 03:57	2°♎46'10	1°08'15
minimum elong	-7464 Nov 16 j 04:01	2°♎46'11	1°08'16
max. Earth dist.	-7464 Nov 15 j 13:13	2°♎41'32	10.45757 AU
morning rise	-7464 Dec 03 j 05:53	4°♎54'14	
retrograde	-7463 Mar 19 j 10:10	12°♎49'37	
opposition	-7463 May 28 j 11:16	9°♎22'42	1°05'29
min. Earth dist.	-7463 May 28 j 21:34	9°♎20'41	8.37610 AU
direct	-7463 Aug 04 j 04:33	6°♎00'23	
evening set	-7463 Nov 12 j 07:20	13°♎37'09	
conjunction	-7463 Nov 29 j 09:39	15°♎47'25	0°37'16
minimum elong	-7463 Nov 29 j 09:41	15°♎47'26	0°37'11
max. Earth dist.	-7463 Nov 28 j 22:49	15°♎43'58	10.29782 AU
morning rise	-7463 Dec 16 j 17:22	17°♎59'26	
retrograde	-7462 Apr 02 j 18:07	26°♎07'52	
opposition	-7462 Jun 11 j 08:05	22°♎39'08	0°24'59
min. Earth dist.	-7462 Jun 11 j 14:46	22°♎37'49	8.21985 AU
direct	-7462 Aug 17 j 09:35	19°♎15'37	
evening set	-7462 Nov 25 j 21:34	27°♎03'00	
conjunction	-7462 Dec 13 j 05:17	29°♎17'02	0°03'21
minimum elong	-7462 Dec 13 j 05:17	29°♎17'02	0°03'10
behind sun begin	-7462 Dec 12 j 22:07	29°♎14'44	
behind sun end	-7462 Dec 13 j 12:26	29°♎19'20	
max. Earth dist.	-7462 Dec 12 j 23:58	29°♎15'20	10.14753 AU
	-7462 Dec 18 j 17:35	0°♏	
morning rise	-7462 Dec 30 j 18:34	1°♏32'55	
desc. node	-7461 Jan 18 j 01:03	3°♏48'03	
retrograde	-7461 Apr 17 j 11:48	9°♏53'41	
opposition	-7461 Jun 25 j 13:19	6°♏23'22	-0°18'26
min. Earth dist.	-7461 Jun 25 j 15:25	6°♏22'57	8.07786 AU
direct	-7461 Aug 31 j 01:22	2°♏58'36	
evening set	-7461 Dec 10 j 02:27	10°♏56'52	

Attention, astronomical year style is used: The year -7461 in astronomical counting style is the year 7462 BCE in historical counting style.

conjunction	-7461 Dec 27 j 15:20	13°♏14'25	-0°31'54
minimum elong	-7461 Dec 27 j 15:18	13°♏14'24	0°32'11
max. Earth dist.	-7461 Dec 27 j 16:01	13°♏14'38	10.01557 AU
	-7460 Jan 10 j 01:13	15°♏	
morning rise	-7460 Jan 14 j 09:40	15°♏33'48	
retrograde	-7460 May 01 j 14:03	24°♏05'11	
opposition	-7460 Jul 09 j 01:48	20°♏33'38	-1°02'12
min. Earth dist.	-7460 Jul 08 j 22:50	20°♏34'14	7.95891 AU
direct	-7460 Sep 13 j 02:53	17°♏07'36	
evening set	-7460 Dec 23 j 21:29	25°♏16'18	
conjunction	-7459 Jan 10 j 14:55	27°♏36'51	-1°06'00
minimum elong	-7459 Jan 10 j 14:52	27°♏36'50	1°06'23
max. Earth dist.	-7459 Jan 10 j 21:28	27°♏39'02	9.91054 AU
morning rise	-7459 Jan 28 j 13:24	29°♏59'05	
	-7459 Jan 28 j 16:12	0°♐	
retrograde	-7459 May 16 j 22:17	8°♐38'19	
opposition	-7459 Jul 23 j 20:03	5°♐05'58	-1°43'10
min. Earth dist.	-7459 Jul 23 j 12:23	5°♐07'33	7.87106 AU
direct	-7459 Sep 27 j 12:47	1°♐38'45	
evening set	-7458 Jan 08 j 04:46	9°♐56'33	
conjunction	-7458 Jan 26 j 01:50	12°♐19'17	-1°36'31
minimum elong	-7458 Jan 26 j 01:46	12°♐19'15	1°36'59
max. Earth dist.	-7458 Jan 26 j 14:03	12°♐23'22	9.83997 AU
morning rise	-7458 Feb 13 j 03:16	14°♐43'26	
retrograde	-7458 Jun 01 j 09:22	23°♐26'48	
opposition	-7458 Aug 07 j 17:41	19°♐54'11	-2°18'04
min. Earth dist.	-7458 Aug 07 j 05:59	19°♐56'38	7.82081 AU
direct	-7458 Oct 12 j 06:42	16°♐25'53	
evening set	-7457 Jan 23 j 21:14	24°♐50'31	
conjunction	-7457 Feb 10 j 21:00	27°♐14'27	-2°00'59
minimum elong	-7457 Feb 10 j 20:56	27°♐14'26	2°01'29
max. Earth dist.	-7457 Feb 11 j 14:09	27°♐20'13	9.80951 AU
morning rise	-7457 Mar 01 j 00:11	29°♐39'28	
	-7457 Mar 03 j 14:56	0°♑	
retrograde	-7457 Jun 16 j 18:57	8°♑22'32	
opposition	-7457 Aug 22 j 15:57	4°♑50'11	-2°43'54
min. Earth dist.	-7457 Aug 22 j 01:19	4°♑53'16	7.81219 AU
direct	-7457 Oct 27 j 06:57	1°♑21'01	
evening set	-7456 Feb 08 j 18:36	9°♑49'23	
conjunction	-7456 Feb 26 j 20:09	12°♑13'29	-2°17'24
minimum elong	-7456 Feb 26 j 20:07	12°♑13'29	2°17'54
max. Earth dist.	-7456 Feb 27 j 16:58	12°♑20'27	9.82173 AU
morning rise	-7456 Mar 15 j 23:54	14°♑38'14	
retrograde	-7456 Jun 30 j 22:59	23°♑16'25	
opposition	-7456 Sep 05 j 12:03	19°♑44'52	-2°58'34
min. Earth dist.	-7456 Sep 04 j 19:33	19°♑48'21	7.84589 AU
direct	-7456 Nov 10 j 10:18	16°♑15'07	
evening set	-7455 Feb 23 j 15:57	24°♑43'33	
conjunction	-7455 Mar 13 j 18:20	27°♑06'50	-2°24'34
minimum elong	-7455 Mar 13 j 18:20	27°♑06'50	2°25'02
max. Earth dist.	-7455 Mar 14 j 17:28	27°♑14'31	9.87574 AU
morning rise	-7455 Mar 31 j 21:33	29°♑30'16	
	-7455 Apr 04 j 17:33	0°♒	
retrograde	-7455 Jul 15 j 18:09	7°♒59'25	
min. Earth dist.	-7455 Sep 19 j 09:30	4°♒32'50	7.91927 AU
opposition	-7455 Sep 20 j 03:10	4°♒29'07	-3°01'11
direct	-7455 Nov 25 j 13:27	0°♒59'07	
evening set	-7454 Mar 11 j 08:21	9°♒23'57	
conjunction	-7454 Mar 29 j 10:47	11°♒45'33	-2°22'15
minimum elong	-7454 Mar 29 j 10:49	11°♒45'34	2°22'39
max. Earth dist.	-7454 Mar 30 j 10:47	11°♒53'25	9.96738 AU
morning rise	-7454 Apr 16 j 12:37	14°♒06'49	
	-7454 Apr 23 j 11:57	15°♒	
retrograde	-7454 Jul 30 j 01:56	22°♒23'45	
opposition	-7454 Oct 04 j 11:07	18°♒55'02	-2°52'10
min. Earth dist.	-7454 Oct 03 j 17:08	18°♒58'46	8.02668 AU
direct	-7454 Dec 10 j 12:11	15°♒25'07	
evening set	-7453 Mar 26 j 15:44	23°♒43'08	
conjunction	-7453 Apr 13 j 17:31	26°♒02'24	-2°11'10
minimum elong	-7453 Apr 13 j 17:34	26°♒02'25	2°11'28
max. Earth dist.	-7453 Apr 14 j 16:43	26°♒09'54	10.08947 AU
morning rise	-7453 May 01 j 17:15	28°♒20'52	
	-7453 May 15 j 01:34	0°♓	
retrograde	-7453 Aug 12 j 22:56	6°♓23'40	
opposition	-7453 Oct 18 j 10:23	2°♓56'45	-2°33'01
min. Earth dist.	-7453 Oct 17 j 17:10	3°♓00'17	8.15978 AU
	-7453 Nov 30 j 10:15	30°℞♒	
direct	-7453 Dec 25 j 04:00	29°♒27'15	
	-7452 Jan 18 j 21:34	0°♓	
evening set	-7452 Apr 09 j 11:39	7°♓36'12	
conjunction	-7452 Apr 27 j 11:55	9°♓52'39	-1°52'41
minimum elong	-7452 Apr 27 j 11:59	9°♓52'40	1°52'53
max. Earth dist.	-7452 Apr 28 j 08:52	9°♓59'19	10.23259 AU
morning rise	-7452 May 15 j 08:49	12°♓07'57	
retrograde	-7452 Aug 25 j 08:37	19°♓56'03	
min. Earth dist.	-7452 Oct 30 j 09:10	16°♓34'08	8.30900 AU
opposition	-7452 Oct 31 j 00:19	16°♓31'04	-2°05'50
direct	-7451 Jan 07 j 11:20	13°♓02'20	
evening set	-7451 Apr 23 j 18:31	21°♓01'01	
conjunction	-7451 May 11 j 16:27	23°♓14'22	-1°28'33
minimum elong	-7451 May 11 j 16:31	23°♓14'23	1°28'39
max. Earth dist.	-7451 May 12 j 10:12	23°♓19'55	10.38723 AU
morning rise	-7451 May 29 j 10:00	25°♓26'21	
	-7451 Jul 09 j 18:05	0°♈	
retrograde	-7451 Sep 07 j 06:30	3°♈00'16	
	-7451 Nov 08 j 11:11	30°℞♓	
opposition	-7451 Nov 13 j 05:08	29°♓37'18	-1°33'00
min. Earth dist.	-7451 Nov 12 j 17:11	29°♓39'41	8.46576 AU
direct	-7450 Jan 21 j 09:35	26°♓09'34	
	-7450 Apr 01 j 21:37	0°♈	
evening set	-7450 May 07 j 11:59	3°♈57'32	
conjunction	-7450 May 25 j 06:46	6°♈07'41	-1°00'37
minimum elong	-7450 May 25 j 06:49	6°♈07'41	1°00'37
max. Earth dist.	-7450 May 25 j 20:07	6°♈11'46	10.54546 AU
morning rise	-7450 Jun 11 j 20:34	8°♈16'19	
retrograde	-7450 Sep 19 j 17:30	15°♈37'15	
opposition	-7450 Nov 26 j 01:14	12°♈16'12	-0°56'48
min. Earth dist.	-7450 Nov 25 j 16:54	12°♈17'50	8.62277 AU
direct	-7449 Feb 03 j 22:23	8°♈49'36	
evening set	-7449 May 20 j 16:46	16°♈27'00	
conjunction	-7449 Jun 07 j 07:42	18°♈33'58	-0°30'39
minimum elong	-7449 Jun 07 j 07:43	18°♈33'58	0°30'32
max. Earth dist.	-7449 Jun 07 j 15:52	18°♈36'25	10.70022 AU
morning rise	-7449 Jun 24 j 17:25	20°♈39'19	
retrograde	-7449 Oct 01 j 19:04	27°♈48'53	
opposition	-7449 Dec 08 j 13:15	24°♈29'31	-0°19'17
min. Earth dist.	-7449 Dec 08 j 08:19	24°♈30'28	8.77325 AU
direct	-7448 Feb 17 j 01:35	21°♈04'09	
evening set	-7448 Jun 01 j 09:30	28°♈31'38	
	-7448 Jun 13 j 20:58	0°♉	
conjunction	-7448 Jun 18 j 20:06	0°♉35'31	-0°00'08
minimum elong	-7448 Jun 18 j 20:07	0°♉35'31	0°00'04

Attention, astronomical year style is used: The year -7448 in astronomical counting style is the year 7449 BCE in historical counting style.

behind sun begin	-7448 Jun	18 j 13:38	0°♉33'37	
behind sun end	-7448 Jun	19 j 02:36	0°♉37'25	
max. Earth dist.	-7448 Jun	18 j 23:29	0°♉36'28	10.84501 AU
asc. node	-7448 Jun	20 j 16:20	0°♉48'42	
morning rise	-7448 Jul	06 j 01:28	2°♉37'49	
retrograde	-7448 Oct	12 j 12:40	9°♉37'55	
opposition	-7448 Dec	19 j 18:29	6°♉19'59	0°17'49
min. Earth dist.	-7448 Dec	19 j 16:19	6°♉20'24	8.91098 AU
direct	-7447 Feb	28 j 20:35	2°♉55'53	
evening set	-7447 Jun	13 j 15:11	10°♉14'23	
conjunction	-7447 Jun	30 j 21:20	12°♉15'25	0°29'33
minimum elong	-7447 Jun	30 j 21:19	12°♉15'25	0°29'51
max. Earth dist.	-7447 Jun	30 j 21:13	12°♉15'24	10.97403 AU
morning rise	-7447 Jul	17 j 22:08	14°♉14'57	
	-7447 Jul	24 j 12:10	15°♉	
retrograde	-7447 Oct	24 j 02:55	21°♉07'39	
opposition	-7447 Dec	31 j 18:00	17°♉50'51	0°53'06
min. Earth dist.	-7447 Dec	31 j 19:16	17°♉50'37	9.03064 AU
	-7446 Feb	15 j 01:50	15°℞♉	
direct	-7446 Mar	13 j 06:17	14°♉27'57	
	-7446 Apr	08 j 06:12	15°♉	
evening set	-7446 Jun	25 j 11:43	21°♉38'44	
conjunction	-7446 Jul	12 j 13:14	23°♉37'16	0°57'23
minimum elong	-7446 Jul	12 j 13:12	23°♉37'16	0°57'46
max. Earth dist.	-7446 Jul	12 j 09:17	23°♉36'07	11.08249 AU
morning rise	-7446 Jul	29 j 09:37	25°♉34'24	
	-7446 Sep	11 j 04:48	0°♊	
retrograde	-7446 Nov	04 j 10:04	2°♊21'42	
	-7446 Dec	31 j 05:05	30°℞♉	
opposition	-7445 Jan	12 j 13:00	29°♉05'45	1°25'29
min. Earth dist.	-7445 Jan	12 j 18:23	29°♉04'45	9.12799 AU
direct	-7445 Mar	25 j 07:18	25°♉43'55	
	-7445 Jun	10 j 19:32	0°♊	
evening set	-7445 Jul	07 j 00:36	2°♊48'27	
conjunction	-7445 Jul	23 j 21:27	4°♊44'51	1°22'32
minimum elong	-7445 Jul	23 j 21:24	4°♊44'50	1°22'58
max. Earth dist.	-7445 Jul	23 j 12:51	4°♊42'22	11.16676 AU
morning rise	-7445 Aug	09 j 13:52	6°♊40'02	
retrograde	-7445 Nov	15 j 15:18	13°♊24'03	
opposition	-7444 Jan	24 j 05:07	10°♊08'37	1°54'06
min. Earth dist.	-7444 Jan	24 j 13:58	10°♊07'00	9.19981 AU
direct	-7444 Apr	05 j 05:05	6°♊47'44	
evening set	-7444 Jul	17 j 07:13	13°♊47'28	
conjunction	-7444 Aug	02 j 23:49	15°♊42'10	1°44'17
minimum elong	-7444 Aug	02 j 23:46	15°♊42'09	1°44'46
max. Earth dist.	-7444 Aug	02 j 11:38	15°♊38'39	11.22428 AU
morning rise	-7444 Aug	19 j 12:45	17°♊35'52	
retrograde	-7444 Nov	25 j 20:04	24°♊18'40	
opposition	-7443 Feb	03 j 19:31	21°♊03'25	2°18'13
min. Earth dist.	-7443 Feb	04 j 06:33	21°♊01'23	9.24382 AU
direct	-7443 Apr	16 j 21:06	17°♊43'22	
evening set	-7443 Jul	28 j 09:26	24°♊39'45	
conjunction	-7443 Aug	13 j 22:33	26°♊33'18	2°02'05
minimum elong	-7443 Aug	13 j 22:31	26°♊33'18	2°02'35
max. Earth dist.	-7443 Aug	13 j 08:17	26°♊29'12	11.25330 AU
morning rise	-7443 Aug	30 j 08:31	28°♊26'03	
	-7443 Sep	13 j 14:25	0°♋	
retrograde	-7443 Dec	07 j 02:37	5°♋09'34	
opposition	-7442 Feb	15 j 09:28	1°♋54'11	2°37'18
min. Earth dist.	-7442 Feb	15 j 22:36	1°♋51'48	9.25869 AU
	-7442 Mar	15 j 05:22	30°℞♊	
direct	-7442 Apr	28 j 09:56	28°♊34'48	
	-7442 Jun	10 j 10:28	0°♋	
evening set	-7442 Aug	08 j 09:02	5°♋29'25	
conjunction	-7442 Aug	24 j 19:19	7°♋22'21	2°15'28
minimum elong	-7442 Aug	24 j 19:17	7°♋22'20	2°15'58
max. Earth dist.	-7442 Aug	24 j 02:41	7°♋17'33	11.25297 AU
morning rise	-7442 Sep	10 j 03:13	9°♋14'42	
retrograde	-7442 Dec	18 j 11:11	16°♋00'48	
opposition	-7441 Feb	27 j 00:44	12°♋45'02	2°50'48
min. Earth dist.	-7441 Feb	27 j 16:31	12°♋42'10	9.24393 AU
direct	-7441 May	09 j 19:47	9°♋26'09	
evening set	-7441 Aug	19 j 07:41	16°♋20'29	
conjunction	-7441 Sep	04 j 15:51	18°♋13'20	2°24'01
minimum elong	-7441 Sep	04 j 15:50	18°♋13'20	2°24'31
max. Earth dist.	-7441 Sep	03 j 20:29	18°♋07'43	11.22333 AU
morning rise	-7441 Sep	20 j 22:47	20°♋05'54	
retrograde	-7441 Dec	29 j 22:20	26°♋56'27	
opposition	-7440 Mar	09 j 18:31	23°♋40'00	2°58'16
min. Earth dist.	-7440 Mar	10 j 12:04	23°♋36'48	9.19999 AU
direct	-7440 May	20 j 06:16	20°♋21'24	
evening set	-7440 Aug	29 j 07:06	27°♋16'56	
conjunction	-7440 Sep	14 j 14:22	29°♋10'20	2°27'23
minimum elong	-7440 Sep	14 j 14:22	29°♋10'20	2°27'52
max. Earth dist.	-7440 Sep	13 j 18:05	29°♋04'24	11.16528 AU
	-7440 Sep	21 j 16:40	0°♌	
morning rise	-7440 Sep	30 j 21:20	1°♌03'42	
retrograde	-7439 Jan	09 j 17:09	8°♌00'28	
opposition	-7439 Mar	21 j 15:56	4°♌43'01	2°59'20
min. Earth dist.	-7439 Mar	22 j 09:47	4°♌39'45	9.12812 AU
direct	-7439 May	31 j 19:09	1°♌24'32	
evening set	-7439 Sep	09 j 09:02	8°♌22'41	
conjunction	-7439 Sep	25 j 16:36	10°♌17'14	2°25'17
minimum elong	-7439 Sep	25 j 16:37	10°♌17'15	2°25'43
max. Earth dist.	-7439 Sep	24 j 20:40	10°♌11'22	11.08042 AU
morning rise	-7439 Oct	12 j 00:37	12°♌12'03	
	-7439 Nov	06 j 14:53	15°♌	
retrograde	-7438 Jan	21 j 18:39	19°♌16'40	
opposition	-7438 Apr	02 j 18:21	15°♌57'58	2°53'38
min. Earth dist.	-7438 Apr	03 j 11:47	15°♌54'45	9.03041 AU
	-7438 Apr	16 j 01:43	15°℞♌	
direct	-7438 Jun	12 j 09:00	12°♌39'23	
	-7438 Aug	05 j 19:17	15°♌	
evening set	-7438 Sep	20 j 15:30	19°♌41'37	
max. Earth dist.	-7438 Oct	06 j 04:09	21°♌31'54	10.97144 AU
conjunction	-7438 Oct	07 j 00:18	21°♌37'55	2°17'30
minimum elong	-7438 Oct	07 j 00:20	21°♌37'55	2°17'51
morning rise	-7438 Oct	23 j 10:37	23°♌34'46	
	-7437 Jan	02 j 09:37	0°♍	
retrograde	-7437 Feb	03 j 05:05	0°♍48'46	
	-7437 Mar	07 j 12:10	30°℞♌	
opposition	-7437 Apr	15 j 03:00	27°♌28'37	2°40'55
min. Earth dist.	-7437 Apr	15 j 20:12	27°♌25'25	8.91018 AU
direct	-7437 Jun	24 j 03:28	24°♌09'42	
	-7437 Sep	21 j 01:20	0°♍	
evening set	-7437 Oct	02 j 04:20	1°♍17'24	
conjunction	-7437 Oct	18 j 15:27	3°♍16'02	2°03'56
minimum elong	-7437 Oct	18 j 15:30	3°♍16'03	2°04'12
max. Earth dist.	-7437 Oct	17 j 19:40	3°♍10'03	10.84223 AU
morning rise	-7437 Nov	04 j 05:18	5°♍15'32	
retrograde	-7436 Feb	15 j 23:13	12°♍40'16	
opposition	-7436 Apr	26 j 18:50	9°♍18'28	2°21'06
min. Earth dist.	-7436 Apr	27 j 11:09	9°♍15'24	8.77191 AU

Attention, astronomical year style is used: The year -7436 in astronomical counting style is the year 7437 BCE in historical counting style.

direct	-7436 Jul 05 j 03:16	5°♍59'00	
evening set	-7436 Oct 13 j 01:13	13°♍13'32	
conjunction	-7436 Oct 29 j 15:52	15°♍15'01	1°44'41
minimum elong	-7436 Oct 29 j 15:55	15°♍15'02	1°44'51
max. Earth dist.	-7436 Oct 28 j 22:14	15°♍09'36	10.69754 AU
morning rise	-7436 Nov 15 j 10:07	17°♍17'40	
retrograde	-7435 Feb 28 j 03:56	24°♍54'17	
opposition	-7435 May 09 j 18:31	21°♍30'40	1°54'20
min. Earth dist.	-7435 May 10 j 08:40	21°♍27'58	8.62087 AU
direct	-7435 Jul 17 j 11:51	18°♍10'27	
evening set	-7435 Oct 25 j 08:16	25°♍33'03	
conjunction	-7435 Nov 11 j 03:21	27°♍37'51	1°20'05
minimum elong	-7435 Nov 11 j 03:24	27°♍37'52	1°20'09
max. Earth dist.	-7435 Nov 10 j 13:02	27°♍33'23	10.54291 AU
morning rise	-7435 Nov 28 j 02:38	29°♍44'04	
	-7435 Nov 30 j 07:00	0°♎	
retrograde	-7434 Mar 13 j 20:56	7°♎33'17	
opposition	-7434 May 23 j 02:28	4°♎07'48	1°21'10
min. Earth dist.	-7434 May 23 j 13:15	4°♎05'43	8.46320 AU
direct	-7434 Jul 30 j 03:37	0°♎46'38	
evening set	-7434 Nov 07 j 03:06	8°♎18'26	
conjunction	-7434 Nov 24 j 03:06	10°♎26'51	0°50'48
minimum elong	-7434 Nov 24 j 03:09	10°♎26'52	0°50'46
max. Earth dist.	-7434 Nov 23 j 16:06	10°♎23'22	10.38490 AU
morning rise	-7434 Dec 11 j 07:58	12°♎36'54	
retrograde	-7433 Mar 28 j 01:16	20°♎39'02	
opposition	-7433 Jun 05 j 19:17	17°♎11'43	0°42'35
min. Earth dist.	-7433 Jun 06 j 02:30	17°♎10'18	8.30580 AU
direct	-7433 Aug 12 j 02:46	13°♎49'24	
evening set	-7433 Nov 20 j 11:05	21°♎31'23	
conjunction	-7433 Dec 07 j 16:18	23°♎43'32	0°17'57
minimum elong	-7433 Dec 07 j 16:19	23°♎43'32	0°17'48
max. Earth dist.	-7433 Dec 07 j 08:36	23°♎41'04	10.23057 AU
morning rise	-7433 Dec 25 j 02:59	25°♎57'30	
	-7432 Jan 28 j 15:13	0°♏	
retrograde	-7432 Apr 10 j 14:42	4°♏12'18	
opposition	-7432 Jun 18 j 20:42	0°♏43'18	0°00'11
min. Earth dist.	-7432 Jun 19 j 00:26	0°♏42'33	8.15628 AU
desc. node	-7432 Jun 20 j 12:17	0°♏35'23	
	-7432 Jun 27 j 22:54	30°℞♎	
direct	-7432 Aug 24 j 13:33	27°♎19'44	
	-7432 Oct 18 j 08:55	0°♏	
evening set	-7432 Dec 03 j 09:29	5°♏12'35	
conjunction	-7432 Dec 20 j 19:53	7°♏28'24	-0°16'58
minimum elong	-7432 Dec 20 j 19:52	7°♏28'24	0°17'13
max. Earth dist.	-7432 Dec 20 j 16:15	7°♏27'14	10.08816 AU
morning rise	-7431 Jan 07 j 12:02	9°♏46'06	
	-7431 Feb 22 j 03:24	15°♏	
retrograde	-7431 Apr 25 j 13:12	18°♏12'25	
	-7431 Jun 29 j 13:15	15°℞♏	
opposition	-7431 Jul 03 j 05:54	14°♏42'00	-0°43'43
min. Earth dist.	-7431 Jul 03 j 06:03	14°♏41'58	8.02382 AU
direct	-7431 Sep 07 j 10:34	11°♏17'05	
	-7431 Nov 11 j 10:31	15°♏	
evening set	-7431 Dec 17 j 22:12	19°♏20'48	
conjunction	-7430 Jan 04 j 13:26	21°♏39'54	-0°51'47
minimum elong	-7430 Jan 04 j 13:23	21°♏39'53	0°52'07
max. Earth dist.	-7430 Jan 04 j 15:15	21°♏40'30	9.96733 AU
morning rise	-7430 Jan 22 j 10:14	24°♏00'48	
	-7430 Mar 16 j 09:58	0°♐	
retrograde	-7430 May 10 j 18:36	2°♐36'25	
	-7430 Jul 06 j 14:57	30°℞♏	
opposition	-7430 Jul 17 j 21:45	29°♏04'55	-1°26'14
min. Earth dist.	-7430 Jul 17 j 17:42	29°♏05'45	7.91798 AU
direct	-7430 Sep 21 j 17:15	25°♏38'38	
	-7430 Dec 01 j 08:34	0°♐	
evening set	-7429 Jan 01 j 23:56	3°♐52'13	
conjunction	-7429 Jan 19 j 19:21	6°♐13'55	-1°24'07
minimum elong	-7429 Jan 19 j 19:17	6°♐13'54	1°24'32
max. Earth dist.	-7429 Jan 20 j 03:16	6°♐16'34	9.87714 AU
morning rise	-7429 Feb 06 j 19:41	8°♐37'13	
retrograde	-7429 May 26 j 04:01	17°♐18'51	
opposition	-7429 Aug 01 j 18:02	13°♐46'39	-2°04'06
min. Earth dist.	-7429 Aug 01 j 09:37	13°♐48'24	7.84672 AU
direct	-7429 Oct 06 j 08:37	10°♐19'03	
evening set	-7428 Jan 17 j 12:34	18°♐40'39	
conjunction	-7428 Feb 04 j 11:15	21°♐04'04	-1°51'26
minimum elong	-7428 Feb 04 j 11:11	21°♐04'03	1°51'55
max. Earth dist.	-7428 Feb 05 j 00:58	21°♐08'40	9.82451 AU
morning rise	-7428 Feb 22 j 13:49	23°♐28'44	
	-7428 Apr 20 j 16:26	0°♑	
retrograde	-7428 Jun 09 j 13:43	2°♑12'09	
	-7428 Jul 30 j 07:38	30°℞♐	
opposition	-7428 Aug 15 j 15:59	28°♐39'46	-2°34'09
min. Earth dist.	-7428 Aug 15 j 03:38	28°♐42'21	7.81536 AU
direct	-7428 Oct 20 j 06:57	25°♐11'00	
	-7427 Jan 03 j 01:29	0°♑	
evening set	-7427 Feb 01 j 08:03	3°♑37'51	
conjunction	-7427 Feb 19 j 09:00	6°♑01'57	-2°11'31
minimum elong	-7427 Feb 19 j 08:57	6°♑01'55	2°12'01
max. Earth dist.	-7427 Feb 20 j 03:40	6°♑08'12	9.81352 AU
morning rise	-7427 Mar 09 j 12:32	8°♑26'51	
retrograde	-7427 Jun 24 j 19:45	17°♑07'31	
opposition	-7427 Aug 30 j 13:03	13°♑35'27	-2°53'50
min. Earth dist.	-7427 Aug 29 j 21:30	13°♑38'44	7.82613 AU
direct	-7427 Nov 04 j 08:52	10°♑05'47	
evening set	-7426 Feb 17 j 05:25	18°♑34'24	
conjunction	-7426 Mar 07 j 07:40	20°♑58'09	-2°22'46
minimum elong	-7426 Mar 07 j 07:38	20°♑58'09	2°23'15
max. Earth dist.	-7426 Mar 08 j 05:58	21°♑05'35	9.84492 AU
morning rise	-7426 Mar 25 j 11:04	23°♑22'14	
	-7426 May 24 j 14:04	0°♒	
retrograde	-7426 Jul 09 j 18:52	1°♒55'47	
	-7426 Aug 25 j 15:00	30°℞♑	
opposition	-7426 Sep 14 j 06:20	28°♑24'34	-3°01'43
min. Earth dist.	-7426 Sep 13 j 12:58	28°♑28'13	7.87799 AU
direct	-7426 Nov 19 j 11:21	24°♑54'18	
	-7425 Feb 05 j 18:06	0°♒	
evening set	-7425 Mar 05 j 00:07	3°♒21'02	
conjunction	-7425 Mar 23 j 02:48	5°♒43'31	-2°24'32
minimum elong	-7425 Mar 23 j 02:49	5°♒43'32	2°24'58
max. Earth dist.	-7425 Mar 24 j 02:46	5°♒51'26	9.91615 AU
morning rise	-7425 Apr 10 j 05:14	8°♒05'52	
	-7425 Jun 14 j 04:27	15°♒	
retrograde	-7425 Jul 24 j 08:26	16°♒28'37	
	-7425 Sep 02 j 21:28	15°℞♒	
opposition	-7425 Sep 28 j 17:19	12°♒58'41	-2°57'39
min. Earth dist.	-7425 Sep 27 j 23:43	13°♒02'22	7.96682 AU
direct	-7425 Dec 04 j 11:06	9°♒28'11	
	-7424 Feb 25 j 09:49	15°♒	
evening set	-7424 Mar 19 j 11:47	17°♒49'40	
conjunction	-7424 Apr 06 j 14:03	20°♒10'09	-2°17'07

Attention, astronomical year style is used: The year -7424 in astronomical counting style is the year 7425 BCE in historical counting style.

minimum elong	-7424 Apr 06 j 14:06	20°♒10'10	2°17'28	
max. Earth dist.	-7424 Apr 07 j 13:40	20°♒17'50	10.02165 AU	
morning rise	-7424 Apr 24 j 14:45	22°♒30'01		
	-7424 Jul 10 j 21:20	0°♓		
retrograde	-7424 Aug 06 j 11:00	0°♓39'27		
	-7424 Sep 02 j 02:00	30°℞♒		
opposition	-7424 Oct 11 j 20:30	27°♒11'10	-2°42'40	
min. Earth dist.	-7424 Oct 11 j 03:45	27°♒14'38	8.08605 AU	
direct	-7424 Dec 18 j 06:00	23°♒40'51		
	-7423 Mar 18 j 23:25	0°♓		
evening set	-7423 Apr 03 j 12:51	1°♓54'19		
conjunction	-7423 Apr 21 j 13:52	4°♓12'11	-2°01'38	
minimum elong	-7423 Apr 21 j 13:55	4°♓12'12	2°01'54	
max. Earth dist.	-7423 Apr 22 j 11:34	4°♓19'09	10.15383 AU	
morning rise	-7423 May 09 j 12:09	6°♓29'04		
retrograde	-7423 Aug 20 j 01:02	14°♓23'59		
opposition	-7423 Oct 25 j 14:38	10°♓57'34	-2°18'41	
min. Earth dist.	-7423 Oct 24 j 23:25	11°♓00'41	8.22767 AU	
direct	-7422 Jan 01 j 18:20	7°♓27'49		
evening set	-7422 Apr 18 j 01:26	15°♓31'27		
conjunction	-7422 May 06 j 00:26	17°♓46'19	-1°39'43	
minimum elong	-7422 May 06 j 00:30	17°♓46'21	1°39'53	
max. Earth dist.	-7422 May 06 j 19:01	17°♓52'11	10.30420 AU	
morning rise	-7422 May 23 j 19:46	19°♓59'56		
retrograde	-7422 Sep 02 j 02:14	27°♓40'14		
opposition	-7422 Nov 07 j 23:13	24°♓15'47	-1°47'59	
min. Earth dist.	-7422 Nov 07 j 09:42	24°♓18'31	8.38310 AU	
direct	-7421 Jan 15 j 21:39	20°♓46'57		
evening set	-7421 May 02 j 00:39	28°♓39'50		
	-7421 May 12 j 22:31	0°♈		
conjunction	-7421 May 19 j 20:57	0°♈51'29	-1°13'12	
minimum elong	-7421 May 19 j 21:01	0°♈51'31	1°13'15	
max. Earth dist.	-7421 May 20 j 12:06	0°♈56'11	10.46390 AU	
morning rise	-7421 Jun 06 j 12:42	3°♈01'42		
retrograde	-7421 Sep 14 j 17:26	10°♈28'16		
opposition	-7421 Nov 20 j 22:45	7°♈05'47	-1°12'57	
min. Earth dist.	-7421 Nov 20 j 11:28	7°♈08'01	8.54370 AU	
direct	-7420 Jan 29 j 14:33	3°♈38'09		
evening set	-7420 May 14 j 10:38	11°♈20'07		
conjunction	-7420 Jun 01 j 03:29	13°♈28'32	-0°43'55	
minimum elong	-7420 Jun 01 j 03:31	13°♈28'32	0°43'51	
max. Earth dist.	-7420 Jun 01 j 15:16	13°♈32'07	10.62447 AU	
morning rise	-7420 Jun 18 j 15:05	15°♈35'21		
retrograde	-7420 Sep 26 j 00:18	22°♈49'38		
opposition	-7420 Dec 02 j 13:57	19°♈29'05	-0°35'45	
min. Earth dist.	-7420 Dec 02 j 05:51	19°♈30'39	8.70160 AU	
direct	-7419 Feb 10 j 20:06	16°♈02'48		
evening set	-7419 May 27 j 08:09	23°♈34'22		
conjunction	-7419 Jun 13 j 20:55	25°♈39'36	-0°13'30	
minimum elong	-7419 Jun 13 j 20:55	25°♈39'36	0°13'20	
behind sun begin	-7419 Jun 13 j 16:52	25°♈38'24		
behind sun end	-7419 Jun 14 j 00:59	25°♈40'48		
max. Earth dist.	-7419 Jun 14 j 04:38	25°♈41'54	10.77845 AU	
morning rise	-7419 Jul 01 j 04:07	27°♈43'13		
	-7419 Jul 21 j 09:19	0°♉		
retrograde	-7419 Oct 07 j 21:07	4°♉47'05		
asc. node	-7419 Nov 27 j 12:02	2°♉46'11		
opposition	-7419 Dec 14 j 21:46	1°♉28'16	0°01'44	
min. Earth dist.	-7419 Dec 14 j 17:45	1°♉29'02	8.84991 AU	
	-7418 Jan 03 j 18:29	30°℞♈		
direct	-7418 Feb 23 j 17:40	28°♈03'24		
	-7418 Apr 14 j 20:09	0°♉		

evening set	-7418 Jun 08 j 18:19	5°♉25'31		
conjunction	-7418 Jun 26 j 02:31	7°♉27'46	0°16'45	
minimum elong	-7418 Jun 26 j 02:30	7°♉27'46	0°17'00	
max. Earth dist.	-7418 Jun 26 j 05:05	7°♉28'31	10.91935 AU	
morning rise	-7418 Jul 13 j 05:21	9°♉28'27		
	-7418 Sep 08 j 16:49	15°♉		
retrograde	-7418 Oct 19 j 11:54	16°♉23'57		
	-7418 Nov 30 j 07:54	15°℞♉		
opposition	-7418 Dec 26 j 23:23	13°♉06'37	0°37'58	
min. Earth dist.	-7418 Dec 26 j 23:04	13°♉06'41	8.98250 AU	
direct	-7417 Mar 08 j 06:50	9°♉43'11		
	-7417 Jun 03 j 04:05	15°♉		
evening set	-7417 Jun 20 j 18:43	16°♉57'04		
conjunction	-7417 Jul 07 j 22:08	18°♉56'36	0°45'30	
minimum elong	-7417 Jul 07 j 22:07	18°♉56'35	0°45'51	
max. Earth dist.	-7417 Jul 07 j 19:53	18°♉55'57	11.04167 AU	
morning rise	-7417 Jul 24 j 20:36	20°♉54'42		
retrograde	-7417 Oct 30 j 21:01	27°♉43'55		
opposition	-7416 Jan 07 j 20:02	24°♉27'47	1°11'45	
min. Earth dist.	-7416 Jan 07 j 22:43	24°♉27'17	9.09431 AU	
direct	-7416 Mar 19 j 12:10	21°♉05'41		
evening set	-7416 Jul 01 j 10:42	28°♉12'40		
	-7416 Jul 16 j 23:34	0°♊		
conjunction	-7416 Jul 18 j 09:35	0°♊09'53	1°11'56	
minimum elong	-7416 Jul 18 j 09:32	0°♊09'52	1°12'21	
max. Earth dist.	-7416 Jul 18 j 03:55	0°♊08'14	11.14102 AU	
morning rise	-7416 Aug 04 j 03:44	2°♊05'48		
retrograde	-7416 Nov 10 j 05:09	8°♊50'51		
opposition	-7415 Jan 18 j 13:18	5°♊35'33	1°42'06	
min. Earth dist.	-7415 Jan 18 j 18:59	5°♊34'30	9.18144 AU	
direct	-7415 Mar 31 j 11:41	2°♊14'40		
evening set	-7415 Jul 12 j 19:53	9°♊16'08		
conjunction	-7415 Jul 29 j 14:26	11°♊11'28	1°35'14	
minimum elong	-7415 Jul 29 j 14:23	11°♊11'27	1°35'42	
max. Earth dist.	-7415 Jul 29 j 05:31	11°♊08'53	11.21398 AU	
morning rise	-7415 Aug 15 j 04:42	13°♊05'39		
retrograde	-7415 Nov 21 j 10:37	19°♊48'33		
opposition	-7414 Jan 30 j 04:21	16°♊33'44	2°08'15	
min. Earth dist.	-7414 Jan 30 j 13:57	16°♊31'58	9.24087 AU	
direct	-7414 Apr 12 j 03:55	13°♊13'52		
evening set	-7414 Jul 24 j 00:11	20°♊11'20		
conjunction	-7414 Aug 09 j 14:42	22°♊05'14	1°54'50	
minimum elong	-7414 Aug 09 j 14:39	22°♊05'13	1°55'19	
max. Earth dist.	-7414 Aug 09 j 01:21	22°♊01'24	11.25804 AU	
morning rise	-7414 Aug 26 j 01:51	23°♊58'15		
	-7414 Nov 03 j 16:09	0°♋		
retrograde	-7414 Dec 02 j 14:59	0°♋40'57		
	-7413 Jan 01 j 03:12	30°℞♊		
opposition	-7413 Feb 10 j 18:24	27°♊26'14	2°29'34	
min. Earth dist.	-7413 Feb 11 j 07:28	27°♊23'52	9.27033 AU	
direct	-7413 Apr 23 j 18:26	24°♊07'07		
	-7413 Jul 25 j 16:38	0°♋		
evening set	-7413 Aug 04 j 00:59	1°♋02'10		
conjunction	-7413 Aug 20 j 12:14	2°♋55'11	2°10'11	
minimum elong	-7413 Aug 20 j 12:11	2°♋55'10	2°10'40	
max. Earth dist.	-7413 Aug 19 j 19:30	2°♋50'22	11.27142 AU	
morning rise	-7413 Sep 05 j 21:00	4°♋47'32		
retrograde	-7413 Dec 13 j 22:14	11°♋32'02		
opposition	-7412 Feb 22 j 09:04	8°♋17'03	2°45'32	
min. Earth dist.	-7412 Feb 23 j 00:15	8°♋14'17	9.26829 AU	
direct	-7412 May 04 j 06:42	4°♋58'30		

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

evening set	-7412 Aug 13 j 23:51	11°♋52'36	
conjunction	-7412 Aug 30 j 08:51	13°♋45'20	2°20'52
minimum elong	-7412 Aug 30 j 08:50	13°♋45'20	2°21'22
max. Earth dist.	-7412 Aug 29 j 14:31	13°♋40'02	11.25314 AU
morning rise	-7412 Sep 15 j 16:00	15°♋37'39	
retrograde	-7412 Dec 24 j 09:18	22°♋25'53	
opposition	-7411 Mar 05 j 01:39	19°♋10'16	2°55'41
min. Earth dist.	-7411 Mar 05 j 18:27	19°♋07'13	9.23449 AU
direct	-7411 May 15 j 17:06	15°♋52'04	
evening set	-7411 Aug 24 j 22:59	22°♋46'49	
max. Earth dist.	-7411 Sep 09 j 10:12	24°♋33'55	11.20390 AU
conjunction	-7411 Sep 10 j 06:36	24°♋39'51	2°26'32
minimum elong	-7411 Sep 10 j 06:36	24°♋39'51	2°27'00
morning rise	-7411 Sep 26 j 13:16	26°♋32'44	
	-7411 Oct 29 j 08:05	0°♌	
retrograde	-7410 Jan 05 j 01:46	3°♌26'29	
opposition	-7410 Mar 16 j 21:23	0°♌09'57	2°59'36
min. Earth dist.	-7410 Mar 17 j 16:04	0°♌06'32	9.17045 AU
	-7410 Mar 19 j 03:55	30°℞♋	
direct	-7410 May 27 j 03:54	26°♋51'47	
	-7410 Jul 30 j 13:47	0°♌	
evening set	-7410 Sep 04 j 23:58	3°♌48'40	
max. Earth dist.	-7410 Sep 20 j 08:50	5°♌36'04	11.12586 AU
conjunction	-7410 Sep 21 j 07:09	5°♌42'37	2°26'50
minimum elong	-7410 Sep 21 j 07:10	5°♌42'37	2°27'17
morning rise	-7410 Oct 07 j 14:36	7°♌36'43	
retrograde	-7409 Jan 16 j 22:06	14°♌37'42	
opposition	-7409 Mar 28 j 21:48	11°♌19'51	2°56'54
min. Earth dist.	-7409 Mar 29 j 17:37	11°♌16'13	9.07872 AU
direct	-7409 Jun 07 j 17:08	8°♌01'29	
	-7409 Sep 15 j 21:39	15°♌	
evening set	-7409 Sep 16 j 04:18	15°♌01'56	
conjunction	-7409 Oct 02 j 12:20	16°♌57'24	2°21'33
minimum elong	-7409 Oct 02 j 12:22	16°♌57'24	2°21'57
max. Earth dist.	-7409 Oct 01 j 14:12	16°♌50'49	11.02191 AU
morning rise	-7409 Oct 18 j 21:37	18°♌53'18	
retrograde	-7408 Jan 29 j 04:18	26°♌03'10	
opposition	-7408 Apr 09 j 03:50	22°♌43'43	2°47'17
min. Earth dist.	-7408 Apr 09 j 22:58	22°♌40'10	8.96261 AU
direct	-7408 Jun 18 j 11:48	19°♌24'53	
evening set	-7408 Sep 26 j 14:09	26°♌30'15	
max. Earth dist.	-7408 Oct 12 j 03:35	28°♌21'38	10.89566 AU
conjunction	-7408 Oct 13 j 00:16	28°♌27'52	2°10'31
minimum elong	-7408 Oct 13 j 00:19	28°♌27'53	2°10'50
	-7408 Oct 25 j 19:50	0°♍	
morning rise	-7408 Oct 29 j 12:24	0°♍26'12	
retrograde	-7407 Feb 09 j 19:50	7°♍46'19	
opposition	-7407 Apr 21 j 16:21	4°♍25'03	2°30'36
min. Earth dist.	-7407 Apr 22 j 09:48	4°♍21'47	8.82631 AU
direct	-7407 Jun 30 j 08:57	1°♍05'35	
evening set	-7407 Oct 08 j 07:22	8°♍17'16	
conjunction	-7407 Oct 24 j 20:31	10°♍17'33	1°53'44
minimum elong	-7407 Oct 24 j 20:34	10°♍17'34	1°53'57
max. Earth dist.	-7407 Oct 24 j 01:10	10°♍11'39	10.75178 AU
morning rise	-7407 Nov 10 j 12:39	12°♍18'52	
retrograde	-7406 Feb 22 j 20:22	19°♍50'31	
opposition	-7406 May 04 j 12:35	16°♍27'18	2°06'51
min. Earth dist.	-7406 May 05 j 04:04	16°♍24'22	8.67500 AU
direct	-7406 Jul 12 j 13:02	13°♍06'59	
evening set	-7406 Oct 20 j 09:46	20°♍26'20	
max. Earth dist.	-7406 Nov 05 j 09:05	22°♍24'19	10.59596 AU
conjunction	-7406 Nov 06 j 02:46	22°♍29'48	1°31'25
minimum elong	-7406 Nov 06 j 02:50	22°♍29'49	1°31'32
morning rise	-7406 Nov 22 j 23:52	24°♍34'34	
	-7405 Jan 13 j 12:08	0°♎	
retrograde	-7405 Mar 08 j 08:03	2°♎18'44	
	-7405 May 03 j 01:34	30°℞♍	
opposition	-7405 May 17 j 17:15	28°♍53'31	1°36'23
min. Earth dist.	-7405 May 18 j 06:34	28°♍50'57	8.51503 AU
direct	-7405 Jul 25 j 01:04	25°♍32'11	
	-7405 Oct 07 j 05:14	0°♎	
evening set	-7405 Nov 01 j 23:20	3°♎00'26	
conjunction	-7405 Nov 18 j 21:04	5°♎07'27	1°04'03
minimum elong	-7405 Nov 18 j 21:07	5°♎07'28	1°04'04
max. Earth dist.	-7405 Nov 18 j 06:49	5°♎02'57	10.43491 AU
morning rise	-7405 Dec 05 j 23:42	7°♎16'02	
retrograde	-7404 Mar 21 j 06:31	15°♎13'13	
opposition	-7404 May 30 j 06:32	11°♎46'03	0°59'57
min. Earth dist.	-7404 May 30 j 16:39	11°♎44'04	8.35377 AU
direct	-7404 Aug 05 j 21:39	8°♎23'34	
evening set	-7404 Nov 14 j 01:34	16°♎01'47	
conjunction	-7404 Dec 01 j 04:37	18°♎12'33	0°32'34
minimum elong	-7404 Dec 01 j 04:39	18°♎12'33	0°32'28
max. Earth dist.	-7404 Nov 30 j 19:07	18°♎09'30	10.27619 AU
morning rise	-7404 Dec 18 j 12:57	20°♎25'04	
retrograde	-7403 Apr 04 j 15:11	28°♎35'14	
opposition	-7403 Jun 13 j 04:33	25°♎06'15	0°18'55
min. Earth dist.	-7403 Jun 13 j 10:23	25°♎05'06	8.19922 AU
direct	-7403 Aug 19 j 05:13	21°♎42'33	
desc. node	-7403 Nov 26 j 08:42	29°♎20'52	
evening set	-7403 Nov 27 j 17:51	29°♎31'24	
	-7403 Dec 01 j 11:18	0°♏	
conjunction	-7403 Dec 15 j 02:15	1°♏45'55	-0°01'46
minimum elong	-7403 Dec 15 j 02:13	1°♏45'55	0°01'59
behind sun begin	-7403 Dec 14 j 19:01	1°♏43'36	
behind sun end	-7403 Dec 15 j 09:25	1°♏48'14	
max. Earth dist.	-7403 Dec 14 j 22:12	1°♏44'39	10.12808 AU
morning rise	-7402 Jan 01 j 16:01	4°♏02'15	
retrograde	-7402 Apr 19 j 10:34	12°♏24'33	
opposition	-7402 Jun 27 j 10:46	8°♏54'00	-0°24'43
min. Earth dist.	-7402 Jun 27 j 11:38	8°♏53'49	8.06004 AU
direct	-7402 Sep 01 j 21:33	5°♏29'03	
evening set	-7402 Dec 12 j 00:34	13°♏28'42	
	-7402 Dec 23 j 16:21	15°♏	
conjunction	-7402 Dec 29 j 13:56	15°♏46'39	-0°36'53
minimum elong	-7402 Dec 29 j 13:54	15°♏46'38	0°37'12
max. Earth dist.	-7402 Dec 29 j 15:28	15°♏47'09	9.99947 AU
morning rise	-7401 Jan 16 j 08:43	18°♏06'26	
retrograde	-7401 May 04 j 14:27	26°♏39'00	
opposition	-7401 Jul 12 j 00:12	23°♏07'15	-1°08'17
min. Earth dist.	-7401 Jul 11 j 20:12	23°♏08'05	7.94502 AU
direct	-7401 Sep 15 j 23:12	19°♏41'02	
evening set	-7401 Dec 26 j 21:07	27°♏50'57	
	-7400 Jan 12 j 03:31	0°♐	
conjunction	-7400 Jan 13 j 14:54	0°♐11'47	-1°10'38
minimum elong	-7400 Jan 13 j 14:50	0°♐11'46	1°11'01
max. Earth dist.	-7400 Jan 13 j 21:54	0°♐14'07	9.89885 AU
morning rise	-7400 Jan 31 j 13:46	2°♐34'19	
retrograde	-7400 May 18 j 23:44	11°♐14'16	
opposition	-7400 Jul 25 j 19:02	7°♐41'47	-1°48'36
min. Earth dist.	-7400 Jul 25 j 10:52	7°♐43'29	7.86197 AU
direct	-7400 Sep 29 j 10:25	4°♐14'21	
evening set	-7399 Jan 10 j 05:42	12°♐33'08	

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

conjunction	-7399 Jan	28 j 03:00	14°↗56'01	-1°40'26
minimum elong	-7399 Jan	28 j 02:56	14°↗55'59	1°40'53
max. Earth dist.	-7399 Jan	28 j 15:19	15°↗00'08	9.83341 AU
morning rise	-7399 Feb	15 j 04:43	17°↗20'20	
retrograde	-7399 Jun	03 j 10:35	26°↗03'50	
opposition	-7399 Aug	09 j 16:47	22°↗31'10	-2°22'22
min. Earth dist.	-7399 Aug	09 j 05:03	22°↗33'38	7.81704 AU
direct	-7399 Oct	14 j 06:22	19°↗02'40	