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

conjunction	-7900 Jan 14 j 01:07	27°♏12'38	-0°37'26	
minimum elong	-7900 Jan 14 j 01:06	27°♏12'38	0°37'50	
max. Earth dist.	-7900 Jan 14 j 17:29	27°♏14'57	20.98948 AU	
morning rise	-7900 Jan 30 j 14:05	28°♏08'31		
	-7900 Mar 08 j 01:33	0°♐		
retrograde	-7900 May 04 j 08:38	1°♐16'06		
	-7900 Jul 02 j 07:11	30°℞♏		
opposition	-7900 Jul 20 j 14:40	29°♏15'58	-0°43'13	
min. Earth dist.	-7900 Jul 20 j 00:54	29°♏17'23	18.97190 AU	
direct	-7900 Oct 03 j 04:24	27°♏18'51		
	-7900 Dec 26 j 15:43	0°♐		
evening set	-7899 Jan 01 j 00:26	0°♐17'39		
conjunction	-7899 Jan 17 j 10:31	1°♐13'11	-0°40'35	
minimum elong	-7899 Jan 17 j 10:30	1°♐13'11	0°41'01	
max. Earth dist.	-7899 Jan 18 j 02:08	1°♐15'24	20.95305 AU	
morning rise	-7899 Feb 03 j 00:11	2°♐09'16		
retrograde	-7899 May 08 j 18:49	5°♐17'07		
opposition	-7899 Jul 24 j 20:08	3°♐16'55	-0°46'36	
min. Earth dist.	-7899 Jul 24 j 07:08	3°♐18'16	18.93378 AU	
direct	-7899 Oct 07 j 10:19	1°♐19'34		
evening set	-7898 Jan 05 j 09:40	4°♐19'02		
conjunction	-7898 Jan 21 j 20:35	5°♐14'47	-0°43'33	
minimum elong	-7898 Jan 21 j 20:34	5°♐14'47	0°43'59	
max. Earth dist.	-7898 Jan 22 j 09:13	5°♐16'35	20.91337 AU	
morning rise	-7898 Feb 07 j 11:13	6°♐11'04		
retrograde	-7898 May 13 j 03:45	9°♐19'14		
opposition	-7898 Jul 29 j 01:51	7°♐18'59	-0°49'47	
min. Earth dist.	-7898 Jul 28 j 15:34	7°♐20'03	18.89254 AU	
direct	-7898 Oct 11 j 14:06	5°♐21'23		
evening set	-7897 Jan 09 j 19:30	8°♐21'37		
conjunction	-7897 Jan 26 j 07:32	9°♐17'36	-0°46'19	
minimum elong	-7897 Jan 26 j 07:32	9°♐17'36	0°46'48	
max. Earth dist.	-7897 Jan 26 j 19:05	9°♐19'14	20.87057 AU	
morning rise	-7897 Feb 11 j 22:48	10°♐14'04		
retrograde	-7897 May 17 j 15:32	13°♐22'37		
opposition	-7897 Aug 02 j 07:47	11°♐22'19	-0°52'44	
min. Earth dist.	-7897 Aug 01 j 22:31	11°♐23'17	18.84804 AU	
direct	-7897 Oct 15 j 21:02	9°♐24'28		
evening set	-7896 Jan 14 j 06:09	12°♐25'32		
conjunction	-7896 Jan 30 j 18:55	13°♐21'45	-0°48'52	
minimum elong	-7896 Jan 30 j 18:54	13°♐21'45	0°49'22	
max. Earth dist.	-7896 Jan 31 j 03:19	13°♐22'57	20.82440 AU	
morning rise	-7896 Feb 16 j 11:00	14°♐18'27		
retrograde	-7896 May 21 j 01:08	17°♐27'24		
opposition	-7896 Aug 05 j 14:14	15°♐27'04	-0°55'27	
min. Earth dist.	-7896 Aug 05 j 07:54	15°♐27'44	18.80021 AU	
direct	-7896 Oct 19 j 01:32	13°♐28'57		
evening set	-7895 Jan 17 j 17:34	16°♐30'54		
conjunction	-7895 Feb 03 j 07:22	17°♐27'23	-0°51'11	
minimum elong	-7895 Feb 03 j 07:22	17°♐27'23	0°51'41	
max. Earth dist.	-7895 Feb 03 j 14:19	17°♐28'23	20.77485 AU	
morning rise	-7895 Feb 19 j 23:59	18°♐24'19		
retrograde	-7895 May 25 j 14:14	21°♐33'40		
opposition	-7895 Aug 09 j 20:49	19°♐33'18	-0°57'53	
min. Earth dist.	-7895 Aug 09 j 15:48	19°♐33'50	18.74878 AU	
direct	-7895 Oct 23 j 09:31	17°♐34'53		
evening set	-7894 Jan 22 j 06:04	20°♐37'48		
conjunction	-7894 Feb 07 j 20:36	21°♐34'33	-0°53'15	
minimum elong	-7894 Feb 07 j 20:35	21°♐34'33	0°53'46	
max. Earth dist.	-7894 Feb 07 j 23:58	21°♐35'02	20.72150 AU	
morning rise	-7894 Feb 24 j 13:56	22°♐31'43		
retrograde	-7894 May 30 j 00:55	25°♐41'31		
opposition	-7894 Aug 14 j 04:08	23°♐41'04	-1°00'02	
min. Earth dist.	-7894 Aug 14 j 02:22	23°♐41'15	18.69352 AU	
direct	-7894 Oct 27 j 15:48	21°♐42'19		
evening set	-7893 Jan 26 j 19:18	24°♐46'15		
conjunction	-7893 Feb 12 j 10:46	25°♐43'16	-0°55'02	
minimum elong	-7893 Feb 12 j 10:45	25°♐43'16	0°55'33	
max. Earth dist.	-7893 Feb 12 j 12:11	25°♐43'28	20.66427 AU	
morning rise	-7893 Mar 01 j 04:30	26°♐40'39		
retrograde	-7893 Jun 03 j 14:21	29°♐50'54		
opposition	-7893 Aug 18 j 11:38	27°♐50'22	-1°01'53	
min. Earth dist.	-7893 Aug 18 j 11:15	27°♐50'24	18.63430 AU	
direct	-7893 Nov 01 j 00:56	25°♐51'14		
evening set	-7892 Jan 31 j 09:28	28°♐56'12		
conjunction	-7892 Feb 17 j 01:33	29°♐53'30	-0°56'33	
minimum elong	-7892 Feb 17 j 01:33	29°♐53'30	0°57'05	
max. Earth dist.	-7892 Feb 16 j 23:23	29°♐53'11	20.60318 AU	
	-7892 Feb 18 j 22:32	0°♑		
morning rise	-7892 Mar 04 j 19:51	0°♑51'08		
retrograde	-7892 Jun 07 j 02:05	4°♑01'50		
opposition	-7892 Aug 21 j 19:51	2°♑01'10	-1°03'25	
min. Earth dist.	-7892 Aug 21 j 22:44	2°♑00'52	18.57153 AU	
direct	-7892 Nov 04 j 09:00	0°♑01'36		
evening set	-7891 Feb 04 j 00:12	3°♑07'40		
conjunction	-7891 Feb 20 j 17:09	4°♑05'15	-0°57'46	
minimum elong	-7891 Feb 20 j 17:08	4°♑05'15	0°58'17	
max. Earth dist.	-7891 Feb 20 j 12:57	4°♑04'38	20.53887 AU	
morning rise	-7891 Mar 09 j 11:50	5°♑03'07		
retrograde	-7891 Jun 11 j 15:54	8°♑14'16		
opposition	-7891 Aug 26 j 04:23	6°♑13'27	-1°04'37	
min. Earth dist.	-7891 Aug 26 j 08:31	6°♑13'01	18.50568 AU	
direct	-7891 Nov 08 j 19:32	4°♑13'27		
evening set	-7890 Feb 08 j 16:03	7°♑20'38		
conjunction	-7890 Feb 25 j 09:33	8°♑18'30	-0°58'41	
minimum elong	-7890 Feb 25 j 09:33	8°♑18'30	0°59'13	
max. Earth dist.	-7890 Feb 25 j 02:03	8°♑17'24	20.47172 AU	
morning rise	-7890 Mar 14 j 04:38	9°♑16'37		
retrograde	-7890 Jun 16 j 04:23	12°♑28'14		
opposition	-7890 Aug 30 j 13:27	10°♑27'15	-1°05'28	
min. Earth dist.	-7890 Aug 30 j 20:47	10°♑26'28	18.43752 AU	
direct	-7890 Nov 13 j 05:14	8°♑26'46		
evening set	-7889 Feb 13 j 08:36	11°♑35'08		
conjunction	-7889 Mar 02 j 02:47	12°♑33'17	-0°59'16	
minimum elong	-7889 Mar 02 j 02:47	12°♑33'17	0°59'48	
max. Earth dist.	-7889 Mar 01 j 17:18	12°♑31'54	20.40274 AU	
morning rise	-7889 Mar 18 j 22:06	13°♑31'38		
retrograde	-7889 Jun 20 j 19:00	16°♑43'44		
opposition	-7889 Sep 03 j 23:03	14°♑42'36	-1°05'58	
min. Earth dist.	-7889 Sep 04 j 07:24	14°♑41'43	18.36785 AU	
direct	-7889 Nov 17 j 17:11	12°♑41'38		
evening set	-7888 Feb 18 j 01:53	15°♑51'13		
conjunction	-7888 Mar 05 j 20:30	16°♑49'39	-0°59'33	
minimum elong	-7888 Mar 05 j 20:30	16°♑49'39	1°00'04	
max. Earth dist.	-7888 Mar 05 j 08:19	16°♑47'52	20.33250 AU	
morning rise	-7888 Mar 22 j 15:59	17°♑48'15		
retrograde	-7888 Jun 24 j 08:29	21°♑00'52		
opposition	-7888 Sep 07 j 09:23	18°♑59'34	-1°06'07	

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

min. Earth dist.	-7888 Sep 07 j 20:35	18°♉58'22	18.29741 AU
direct	-7888 Nov 21 j 04:21	16°♉58'08	
evening set	-7887 Feb 21 j 20:03	20°♉08'58	
conjunction	-7887 Mar 10 j 15:11	21°♉07'42	-0°59'29
minimum elong	-7887 Mar 10 j 15:11	21°♉07'42	1°00'01
max. Earth dist.	-7887 Mar 10 j 01:02	21°♉05'37	20.26199 AU
morning rise	-7887 Mar 27 j 10:49	22°♉06'32	
retrograde	-7887 Jun 29 j 00:12	25°♉19'41	
opposition	-7887 Sep 11 j 20:06	23°♉18'15	-1°05'54
min. Earth dist.	-7887 Sep 12 j 08:10	23°♉16'57	18.22693 AU
direct	-7887 Nov 25 j 17:48	21°♉16'21	
evening set	-7886 Feb 26 j 15:14	24°♉28'30	
conjunction	-7886 Mar 15 j 10:43	25°♉27'31	-0°59'06
minimum elong	-7886 Mar 15 j 10:43	25°♉27'31	0°59'36
max. Earth dist.	-7886 Mar 14 j 18:15	25°♉25'06	20.19159 AU
morning rise	-7886 Apr 01 j 06:20	26°♉26'36	
retrograde	-7886 Jul 03 j 15:07	29°♉40'17	
opposition	-7886 Sep 16 j 07:50	27°♉38'45	-1°05'18
min. Earth dist.	-7886 Sep 16 j 22:32	27°♉37'11	18.15691 AU
direct	-7886 Nov 30 j 06:12	25°♉36'27	
evening set	-7885 Mar 03 j 11:10	28°♉49'55	
conjunction	-7885 Mar 20 j 06:55	29°♉49'14	-0°58'22
minimum elong	-7885 Mar 20 j 06:56	29°♉49'14	0°58'52
max. Earth dist.	-7885 Mar 19 j 12:23	29°♉46'29	20.12202 AU
	-7885 Mar 23 j 07:38	0°♒	
morning rise	-7885 Apr 06 j 02:31	0°♒48'32	
retrograde	-7885 Jul 08 j 08:22	4°♒02'49	
opposition	-7885 Sep 20 j 20:06	2°♒01'12	-1°04'20
min. Earth dist.	-7885 Sep 21 j 11:31	1°♒59'33	18.08787 AU
	-7885 Nov 27 j 08:25	30°℞♉	
direct	-7885 Dec 04 j 21:32	29°♉58'30	
	-7885 Dec 12 j 10:01	0°♒	
evening set	-7884 Mar 07 j 08:02	3°♒13'21	
max. Earth dist.	-7884 Mar 23 j 07:43	4°♒09'55	20.05351 AU
conjunction	-7884 Mar 24 j 04:01	4°♒12'56	-0°57'18
minimum elong	-7884 Mar 24 j 04:02	4°♒12'56	0°57'47
morning rise	-7884 Apr 09 j 23:23	5°♒12'29	
retrograde	-7884 Jul 12 j 00:37	8°♒27'21	
opposition	-7884 Sep 24 j 09:18	6°♒25'42	-1°02'58
min. Earth dist.	-7884 Sep 25 j 03:14	6°♒23'46	18.02007 AU
direct	-7884 Dec 08 j 11:10	4°♒22'38	
evening set	-7883 Mar 12 j 05:47	7°♒38'53	
max. Earth dist.	-7883 Mar 28 j 03:16	8°♒35'22	19.98645 AU
conjunction	-7883 Mar 29 j 01:53	8°♒38'45	-0°55'53
minimum elong	-7883 Mar 29 j 01:53	8°♒38'45	0°56'20
morning rise	-7883 Apr 14 j 21:09	9°♒38'31	
retrograde	-7883 Jul 16 j 19:39	12°♒54'00	
opposition	-7883 Sep 28 j 23:14	10°♒52'19	-1°01'13
min. Earth dist.	-7883 Sep 29 j 18:02	10°♒50'18	17.95361 AU
direct	-7883 Dec 13 j 04:37	8°♒48'55	
evening set	-7882 Mar 17 j 04:33	12°♒06'34	
max. Earth dist.	-7882 Apr 02 j 00:42	13°♒03'06	19.92047 AU
conjunction	-7882 Apr 03 j 00:45	13°♒06'42	-0°54'07
minimum elong	-7882 Apr 03 j 00:45	13°♒06'42	0°54'33
morning rise	-7882 Apr 19 j 19:33	14°♒06'42	
	-7882 May 05 j 12:07	15°♒	
retrograde	-7882 Jul 21 j 13:27	17°♒22'46	
opposition	-7882 Oct 03 j 14:10	15°♒21'06	-0°59'05
min. Earth dist.	-7882 Oct 04 j 11:27	15°♒18'48	17.88827 AU
	-7882 Oct 11 j 17:59	15°℞♒	
direct	-7882 Dec 17 j 20:25	13°♒17'22	
	-7881 Feb 20 j 14:38	15°♒	
evening set	-7881 Mar 22 j 04:16	16°♒36'25	
max. Earth dist.	-7881 Apr 06 j 21:37	17°♒32'47	19.85576 AU
conjunction	-7881 Apr 08 j 00:16	17°♒36'48	-0°52'00
minimum elong	-7881 Apr 08 j 00:16	17°♒36'48	0°52'23
morning rise	-7881 Apr 24 j 18:47	18°♒37'00	
retrograde	-7881 Jul 26 j 09:46	21°♒53'41	
opposition	-7881 Oct 08 j 05:58	19°♒51'59	-0°56'34
min. Earth dist.	-7881 Oct 09 j 04:11	19°♒49'35	17.82417 AU
direct	-7881 Dec 22 j 15:31	17°♒47'54	
evening set	-7880 Mar 26 j 04:30	21°♒08'19	
max. Earth dist.	-7880 Apr 10 j 20:51	22°♒04'46	19.79209 AU
conjunction	-7880 Apr 12 j 00:29	22°♒08'57	-0°49'33
minimum elong	-7880 Apr 12 j 00:29	22°♒08'57	0°49'55
morning rise	-7880 Apr 28 j 18:21	23°♒09'20	
retrograde	-7880 Jul 30 j 05:32	26°♒26'36	
opposition	-7880 Oct 11 j 22:46	24°♒24'53	-0°53'40
min. Earth dist.	-7880 Oct 12 j 23:09	24°♒22'14	17.76112 AU
direct	-7880 Dec 26 j 09:44	22°♒20'27	
evening set	-7879 Mar 31 j 05:49	25°♒42'11	
max. Earth dist.	-7879 Apr 15 j 19:00	26°♒38'25	19.72974 AU
conjunction	-7879 Apr 17 j 01:23	26°♒43'02	-0°46'45
minimum elong	-7879 Apr 17 j 01:24	26°♒43'02	0°47'06
morning rise	-7879 May 03 j 18:50	27°♒43'37	
	-7879 Jun 16 j 20:41	0°♓	
retrograde	-7879 Aug 04 j 02:37	1°♓01'24	
	-7879 Sep 22 j 10:57	30°℞♒	
opposition	-7879 Oct 16 j 16:13	28°♒59'38	-0°50'24
min. Earth dist.	-7879 Oct 17 j 17:36	28°♒56'52	17.69955 AU
direct	-7879 Dec 31 j 06:10	26°♒54'50	
	-7878 Mar 31 j 06:37	0°♓	
evening set	-7878 Apr 05 j 07:40	0°♓17'50	
max. Earth dist.	-7878 Apr 20 j 20:09	1°♓14'12	19.66895 AU
conjunction	-7878 Apr 22 j 03:03	1°♓18'55	-0°43'39
minimum elong	-7878 Apr 22 j 03:03	1°♓18'55	0°43'58
morning rise	-7878 May 08 j 19:38	2°♓19'39	
retrograde	-7878 Aug 09 j 00:06	5°♓37'56	
opposition	-7878 Oct 21 j 10:44	3°♓36'06	-0°46'48
min. Earth dist.	-7878 Oct 22 j 13:42	3°♓33'10	17.63977 AU
direct	-7877 Jan 05 j 02:29	1°♓30'58	
evening set	-7877 Apr 10 j 10:05	4°♓55'10	
max. Earth dist.	-7877 Apr 25 j 19:34	5°♓51'19	19.61041 AU
conjunction	-7877 Apr 27 j 04:49	5°♓56'25	-0°40'15
minimum elong	-7877 Apr 27 j 04:49	5°♓56'25	0°40'32
morning rise	-7877 May 13 j 20:48	6°♓57'18	
retrograde	-7877 Aug 13 j 21:27	10°♓16'04	
opposition	-7877 Oct 26 j 05:58	8°♓14'09	-0°42'52
min. Earth dist.	-7877 Oct 27 j 09:43	8°♓11'07	17.58268 AU
direct	-7876 Jan 10 j 00:14	6°♓08'39	
evening set	-7876 Apr 14 j 12:54	9°♓34'00	
max. Earth dist.	-7876 Apr 29 j 22:15	10°♓30'20	19.55484 AU
conjunction	-7876 May 01 j 07:15	10°♓35'25	-0°36'35
minimum elong	-7876 May 01 j 07:15	10°♓35'25	0°36'49
morning rise	-7876 May 17 j 22:15	11°♓36'25	
retrograde	-7876 Aug 17 j 19:55	14°♓55'37	
opposition	-7876 Oct 30 j 01:53	12°♓53'37	-0°38'39
min. Earth dist.	-7876 Oct 31 j 06:31	12°♓50'29	17.52885 AU
direct	-7875 Jan 13 j 22:34	10°♓47'48	
evening set	-7875 Apr 19 j 16:18	14°♓14'12	
max. Earth dist.	-7875 May 04 j 23:01	15°♓10'23	19.50299 AU

Attention, astronomical year style is used: The year -7875 in astronomical counting style is the year 7876 BCE in historical counting style.

conjunction	-7875 May 06 j 09:51	15°♓15'46	-0°32'39
minimum elong	-7875 May 06 j 09:51	15°♓15'46	0°32'51
morning rise	-7875 May 23 j 00:06	16°♓16'52	
retrograde	-7875 Aug 22 j 17:14	19°♓36'29	
opposition	-7875 Nov 03 j 22:41	17°♓34'23	-0°34'09
min. Earth dist.	-7875 Nov 05 j 03:59	17°♓31'11	17.47918 AU
direct	-7874 Jan 18 j 22:04	15°♓28'16	
evening set	-7874 Apr 24 j 19:54	18°♓55'40	
max. Earth dist.	-7874 May 10 j 02:48	19°♓52'04	19.45555 AU
conjunction	-7874 May 11 j 12:48	19°♓57'21	-0°28'29
minimum elong	-7874 May 11 j 12:49	19°♓57'21	0°28'38
morning rise	-7874 May 28 j 01:56	20°♓58'30	
retrograde	-7874 Aug 27 j 16:08	24°♓18'31	
opposition	-7874 Nov 08 j 20:16	22°♓16'21	-0°29'24
min. Earth dist.	-7874 Nov 10 j 01:31	22°♓13'09	17.43418 AU
direct	-7873 Jan 23 j 22:46	20°♓10'00	
evening set	-7873 Apr 29 j 23:54	23°♓38'17	
max. Earth dist.	-7873 May 15 j 04:52	24°♓34'37	19.41323 AU
conjunction	-7873 May 16 j 15:49	24°♓40'03	-0°24'08
minimum elong	-7873 May 16 j 15:49	24°♓40'03	0°24'14
morning rise	-7873 Jun 02 j 03:57	25°♓41'16	
retrograde	-7873 Sep 01 j 13:50	29°♓01'39	
opposition	-7873 Nov 13 j 18:37	26°♓59'26	-0°24'26
min. Earth dist.	-7873 Nov 15 j 00:15	26°♓56'11	17.39480 AU
direct	-7872 Jan 28 j 23:41	24°♓52'52	
evening set	-7872 May 04 j 03:52	28°♓21'59	
max. Earth dist.	-7872 May 19 j 09:09	29°♓18'31	19.37677 AU
conjunction	-7872 May 20 j 18:58	29°♓23'48	-0°19'35
minimum elong	-7872 May 20 j 18:58	29°♓23'48	0°19'40
	-7872 May 30 j 11:04	0°♈	
morning rise	-7872 Jun 06 j 05:58	0°♈25'03	
retrograde	-7872 Sep 05 j 13:37	3°♈45'45	
opposition	-7872 Nov 17 j 17:40	1°♈43'32	-0°19'17
min. Earth dist.	-7872 Nov 18 j 22:28	1°♈40'23	17.36124 AU
	-7871 Jan 03 j 02:17	30°℞♓	
direct	-7871 Feb 02 j 02:25	29°♓36'52	
	-7871 Mar 03 j 18:22	0°♈	
evening set	-7871 May 09 j 08:17	3°♈06'42	
conjunction	-7871 May 25 j 22:18	4°♈08'33	-0°14'54
minimum elong	-7871 May 25 j 22:18	4°♈08'33	0°14'55
behind sun begin	-7871 May 25 j 19:54	4°♈08'11	
behind sun end	-7871 May 26 j 00:42	4°♈08'55	
max. Earth dist.	-7871 May 24 j 12:19	4°♈03'14	19.34629 AU
morning rise	-7871 Jun 11 j 08:07	5°♈09'49	
retrograde	-7871 Sep 10 j 12:02	8°♈30'49	
opposition	-7871 Nov 22 j 17:25	6°♈28'38	-0°13'59
min. Earth dist.	-7871 Nov 23 j 22:33	6°♈25'27	17.33393 AU
direct	-7870 Feb 07 j 04:06	4°♈21'53	
evening set	-7870 May 14 j 12:45	7°♈52'23	
max. Earth dist.	-7870 May 29 j 16:51	8°♈49'04	19.32215 AU
conjunction	-7870 May 31 j 01:42	8°♈54'14	-0°10'06
minimum elong	-7870 May 31 j 01:42	8°♈54'14	0°10'05
behind sun begin	-7870 May 30 j 20:19	8°♈53'25	
behind sun end	-7870 May 31 j 07:04	8°♈55'03	
morning rise	-7870 Jun 16 j 10:19	9°♈55'29	
retrograde	-7870 Sep 15 j 13:10	13°♈16'45	
opposition	-7870 Nov 27 j 17:54	11°♈14'39	-0°08'33
min. Earth dist.	-7870 Nov 28 j 21:39	11°♈11'38	17.31274 AU
direct	-7869 Feb 12 j 08:00	9°♈07'54	
evening set	-7869 May 19 j 17:09	12°♈38'55	
max. Earth dist.	-7869 Jun 03 j 20:52	13°♈35'42	19.30397 AU
conjunction	-7869 Jun 05 j 04:56	13°♈40'45	-0°05'13
minimum elong	-7869 Jun 05 j 04:55	13°♈40'45	0°05'10
behind sun begin	-7869 Jun 04 j 22:24	13°♈39'45	
behind sun end	-7869 Jun 05 j 11:26	13°♈41'45	
morning rise	-7869 Jun 21 j 12:14	14°♈41'58	
retrograde	-7869 Sep 20 j 12:34	18°♈03'29	
opposition	-7869 Dec 02 j 19:08	16°♈01'29	-0°03'03
min. Earth dist.	-7869 Dec 03 j 23:12	15°♈58'25	17.29754 AU
direct	-7868 Feb 17 j 10:10	13°♈54'45	
evening set	-7868 May 23 j 21:39	17°♈26'12	
max. Earth dist.	-7868 Jun 08 j 00:56	18°♈23'03	19.29164 AU
conjunction	-7868 Jun 09 j 08:10	18°♈27'59	-0°00'12
minimum elong	-7868 Jun 09 j 08:09	18°♈27'59	0°00'06
behind sun begin	-7868 Jun 09 j 01:46	18°♈27'00	
behind sun end	-7868 Jun 09 j 14:33	18°♈28'57	
asc. node	-7868 Jun 24 j 15:54	19°♈25'40	
morning rise	-7868 Jun 25 j 14:17	19°♈29'08	
retrograde	-7868 Sep 24 j 14:33	22°♈50'50	
opposition	-7868 Dec 06 j 20:40	20°♈48'55	0°02'30
min. Earth dist.	-7868 Dec 07 j 23:07	20°♈46'03	17.28785 AU
direct	-7867 Feb 21 j 15:06	18°♈42'16	
evening set	-7867 May 29 j 02:05	22°♈14'01	
max. Earth dist.	-7867 Jun 13 j 05:32	23°♈11'00	19.28455 AU
conjunction	-7867 Jun 14 j 11:23	23°♈15'43	0°04'50
minimum elong	-7867 Jun 14 j 11:22	23°♈15'43	0°04'59
behind sun begin	-7867 Jun 14 j 04:52	23°♈14'42	
behind sun end	-7867 Jun 14 j 17:53	23°♈16'43	
morning rise	-7867 Jun 30 j 16:04	24°♈16'46	
retrograde	-7867 Sep 29 j 14:11	27°♈38'37	
opposition	-7867 Dec 11 j 23:06	25°♈36'48	0°08'02
min. Earth dist.	-7867 Dec 13 j 01:45	25°♈33'55	17.28337 AU
direct	-7866 Feb 26 j 17:46	23°♈30'13	
evening set	-7866 Jun 03 j 06:16	27°♈02'08	
max. Earth dist.	-7866 Jun 18 j 08:52	27°♈59'05	19.28261 AU
conjunction	-7866 Jun 19 j 14:06	28°♈03'43	0°09'45
minimum elong	-7866 Jun 19 j 14:06	28°♈03'43	0°09'57
behind sun begin	-7866 Jun 19 j 08:41	28°♈02'52	
behind sun end	-7866 Jun 19 j 19:30	28°♈04'33	
morning rise	-7866 Jul 05 j 17:36	29°♈04'40	
	-7866 Jul 21 j 03:26	0°♉	
retrograde	-7866 Oct 04 j 16:36	2°♉26'36	
opposition	-7866 Dec 17 j 01:50	0°♉24'51	0°13'31
min. Earth dist.	-7866 Dec 18 j 02:26	0°♉22'11	17.28385 AU
	-7866 Dec 26 j 17:08	30°℞♈	
direct	-7865 Mar 03 j 23:38	28°♈18'22	
	-7865 May 06 j 21:47	0°♉	
evening set	-7865 Jun 08 j 10:03	1°♉50'18	
conjunction	-7865 Jun 24 j 16:40	2°♉51'44	0°14'37
minimum elong	-7865 Jun 24 j 16:40	2°♉51'44	0°14'50
behind sun begin	-7865 Jun 24 j 14:02	2°♉51'20	
behind sun end	-7865 Jun 24 j 19:17	2°♉52'09	
max. Earth dist.	-7865 Jun 23 j 13:35	2°♉47'27	19.28551 AU
morning rise	-7865 Jul 10 j 18:42	3°♉52'33	
retrograde	-7865 Oct 09 j 16:07	7°♉14'30	
opposition	-7865 Dec 22 j 04:57	5°♉12'50	0°18'54
min. Earth dist.	-7865 Dec 23 j 05:20	5°♉10'12	17.28920 AU
direct	-7864 Mar 08 j 02:42	3°♉06'28	
evening set	-7864 Jun 12 j 13:27	6°♉38'16	
conjunction	-7864 Jun 28 j 18:35	7°♉39'33	0°19'22
minimum elong	-7864 Jun 28 j 18:35	7°♉39'33	0°19'38
max. Earth dist.	-7864 Jun 27 j 16:04	7°♉35'21	19.29336 AU
morning rise	-7864 Jul 14 j 19:32	8°♉40'13	

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

retrograde	-7864 Oct 13 j 18:03	12°♉02'07	
opposition	-7864 Dec 26 j 08:09	10°♉00'29	0°24'09
min. Earth dist.	-7864 Dec 27 j 06:20	9°♉58'06	17.29943 AU
direct	-7863 Mar 13 j 08:57	7°♉54'15	
evening set	-7863 Jun 17 j 16:11	11°♉25'48	
conjunction	-7863 Jul 03 j 20:06	12°♉26'54	0°23'59
minimum elong	-7863 Jul 03 j 20:06	12°♉26'54	0°24'18
max. Earth dist.	-7863 Jul 02 j 20:24	12°♉23'08	19.30603 AU
morning rise	-7863 Jul 19 j 19:35	13°♉27'22	
	-7863 Aug 15 j 12:16	15°♉	
retrograde	-7863 Oct 18 j 16:59	16°♉49'11	
	-7863 Dec 26 j 15:51	15°℞♉	
opposition	-7863 Dec 31 j 11:40	14°♉47'35	0°29'13
min. Earth dist.	-7862 Jan 01 j 09:02	14°♉45'17	17.31456 AU
direct	-7862 Mar 18 j 12:53	12°♉41'31	
	-7862 Jun 02 j 05:51	15°♉	
evening set	-7862 Jun 22 j 18:25	16°♉12'39	
conjunction	-7862 Jul 08 j 20:49	17°♉13'32	0°28'25
minimum elong	-7862 Jul 08 j 20:48	17°♉13'32	0°28'46
max. Earth dist.	-7862 Jul 07 j 22:01	17°♉09'55	19.32386 AU
morning rise	-7862 Jul 24 j 19:14	18°♉13'49	
retrograde	-7862 Oct 23 j 17:51	21°♉35'29	
opposition	-7861 Jan 05 j 15:09	19°♉33'54	0°34'03
min. Earth dist.	-7861 Jan 06 j 10:05	19°♉31'52	17.33506 AU
direct	-7861 Mar 23 j 19:20	17°♉27'59	
evening set	-7861 Jun 27 j 19:33	20°♉58'36	
conjunction	-7861 Jul 13 j 20:48	21°♉59'15	0°32'39
minimum elong	-7861 Jul 13 j 20:48	21°♉59'15	0°33'02
max. Earth dist.	-7861 Jul 13 j 01:26	21°♉56'11	19.34705 AU
morning rise	-7861 Jul 29 j 17:54	22°♉59'19	
retrograde	-7861 Oct 28 j 15:51	26°♉20'46	
opposition	-7860 Jan 10 j 18:38	24°♉19'13	0°38'39
min. Earth dist.	-7860 Jan 11 j 11:57	24°♉17'22	17.36090 AU
direct	-7860 Mar 28 j 00:06	22°♉13'30	
evening set	-7860 Jul 01 j 20:13	25°♉43'29	
conjunction	-7860 Jul 17 j 19:58	26°♉43'52	0°36'38
minimum elong	-7860 Jul 17 j 19:58	26°♉43'52	0°37'02
max. Earth dist.	-7860 Jul 17 j 01:56	26°♉41'01	19.37575 AU
morning rise	-7860 Aug 02 j 16:05	27°♉43'44	
	-7860 Sep 13 j 18:25	0°♊	
retrograde	-7860 Nov 01 j 15:04	1°♊04'56	
	-7860 Dec 22 j 21:14	30°℞♉	
opposition	-7859 Jan 14 j 21:49	29°♉03'25	0°42'57
min. Earth dist.	-7859 Jan 15 j 12:40	29°♉01'50	17.39251 AU
direct	-7859 Apr 02 j 05:05	26°♉57'55	
	-7859 Jun 29 j 09:36	0°♊	
evening set	-7859 Jul 06 j 19:56	0°♊27'10	
conjunction	-7859 Jul 22 j 18:32	1°♊27'18	0°40'21
minimum elong	-7859 Jul 22 j 18:32	1°♊27'18	0°40'47
max. Earth dist.	-7859 Jul 22 j 04:08	1°♊25'01	19.41023 AU
morning rise	-7859 Aug 07 j 13:25	2°♊26'54	
retrograde	-7859 Nov 06 j 13:06	5°♊47'49	
opposition	-7858 Jan 20 j 01:03	3°♊46'23	0°46'57
min. Earth dist.	-7858 Jan 20 j 13:28	3°♊45'04	17.42977 AU
direct	-7858 Apr 07 j 09:28	1°♊41'11	
evening set	-7858 Jul 11 j 18:50	5°♊09'35	
conjunction	-7858 Jul 27 j 16:03	6°♊09'26	0°43'48
minimum elong	-7858 Jul 27 j 16:03	6°♊09'26	0°44'15
max. Earth dist.	-7858 Jul 27 j 03:31	6°♊07'27	19.45040 AU
morning rise	-7858 Aug 12 j 10:02	7°♊08'49	
retrograde	-7858 Nov 11 j 11:19	10°♊29'25	

opposition	-7857 Jan 25 j 04:02	8°♊28'04	0°50'37
min. Earth dist.	-7857 Jan 25 j 14:02	8°♊27'01	17.47280 AU
direct	-7857 Apr 12 j 11:46	6°♊23'12	
evening set	-7857 Jul 16 j 16:50	9°♊50'43	
conjunction	-7857 Aug 01 j 13:01	10°♊50'17	0°46'56
minimum elong	-7857 Aug 01 j 13:01	10°♊50'17	0°47'24
max. Earth dist.	-7857 Aug 01 j 03:58	10°♊48'51	19.49612 AU
morning rise	-7857 Aug 17 j 06:00	11°♊49'24	
retrograde	-7857 Nov 16 j 09:44	15°♊09'39	
opposition	-7856 Jan 30 j 06:31	13°♊08'26	0°53'56
min. Earth dist.	-7856 Jan 30 j 13:40	13°♊07'41	17.52091 AU
direct	-7856 Apr 16 j 15:06	11°♊03'57	
evening set	-7856 Jul 20 j 14:06	14°♊30'29	
conjunction	-7856 Aug 05 j 09:06	15°♊29'46	0°49'45
minimum elong	-7856 Aug 05 j 09:05	15°♊29'46	0°50'16
max. Earth dist.	-7856 Aug 05 j 02:07	15°♊28'40	19.54661 AU
morning rise	-7856 Aug 21 j 01:18	16°♊28'38	
retrograde	-7856 Nov 20 j 07:13	19°♊48'31	
opposition	-7855 Feb 03 j 08:52	17°♊47'27	0°56'52
min. Earth dist.	-7855 Feb 03 j 14:05	17°♊46'54	17.57361 AU
direct	-7855 Apr 21 j 15:24	15°♊43'22	
evening set	-7855 Jul 25 j 10:22	19°♊08'52	
conjunction	-7855 Aug 10 j 04:22	20°♊07'50	0°52'14
minimum elong	-7855 Aug 10 j 04:21	20°♊07'50	0°52'45
max. Earth dist.	-7855 Aug 10 j 00:29	20°♊07'13	19.60129 AU
morning rise	-7855 Aug 25 j 19:44	21°♊06'26	
retrograde	-7855 Nov 25 j 05:38	24°♊25'55	
opposition	-7854 Feb 08 j 10:49	22°♊25'01	0°59'26
min. Earth dist.	-7854 Feb 08 j 12:53	22°♊24'48	17.62996 AU
direct	-7854 Apr 26 j 18:01	20°♊21'22	
evening set	-7854 Jul 30 j 05:55	23°♊45'44	
conjunction	-7854 Aug 14 j 22:53	24°♊44'25	0°54'22
minimum elong	-7854 Aug 14 j 22:53	24°♊44'25	0°54'54
max. Earth dist.	-7854 Aug 14 j 21:19	24°♊44'10	19.65922 AU
morning rise	-7854 Aug 30 j 13:36	25°♊42'45	
retrograde	-7854 Nov 30 j 02:09	29°♊01'49	
opposition	-7853 Feb 13 j 12:25	27°♊01'03	1°01'36
min. Earth dist.	-7853 Feb 13 j 12:56	27°♊01'00	17.68942 AU
direct	-7853 May 01 j 17:23	24°♊57'49	
evening set	-7853 Aug 04 j 00:27	28°♊21'01	
conjunction	-7853 Aug 19 j 16:35	29°♊19'23	0°56'09
minimum elong	-7853 Aug 19 j 16:35	29°♊19'23	0°56'40
max. Earth dist.	-7853 Aug 19 j 17:31	29°♊19'32	19.71989 AU
	-7853 Aug 30 j 13:07	0°♋	
morning rise	-7853 Sep 04 j 06:45	0°♋17'28	
retrograde	-7853 Dec 04 j 23:20	3°♋36'03	
opposition	-7852 Feb 18 j 13:20	1°♋35'25	1°03'21
min. Earth dist.	-7852 Feb 18 j 10:38	1°♋35'42	17.75101 AU
	-7852 Apr 02 j 09:46	30°℞♊	
direct	-7852 May 05 j 19:15	29°♊32'37	
	-7852 Jun 07 j 07:47	0°♋	
evening set	-7852 Aug 07 j 18:13	2°♋54'35	
conjunction	-7852 Aug 23 j 09:33	3°♋52'39	0°57'33
minimum elong	-7852 Aug 23 j 09:32	3°♋52'39	0°58'04
max. Earth dist.	-7852 Aug 23 j 12:52	3°♋53'10	19.78226 AU
morning rise	-7852 Sep 07 j 23:09	4°♋50'27	
retrograde	-7852 Dec 08 j 18:19	8°♋08'33	
opposition	-7851 Feb 22 j 13:48	6°♋08'01	1°04'41
min. Earth dist.	-7851 Feb 22 j 09:52	6°♋08'26	17.81418 AU
direct	-7851 May 10 j 17:40	4°♋05'38	
evening set	-7851 Aug 12 j 11:05	7°♋26'19	

Attention, astronomical year style is used: The year -7851 in astronomical counting style is the year 7852 BCE in historical counting style.

conjunction	-7851 Aug 28 j 01:41	8°♋24'04	0°58'35
minimum elong	-7851 Aug 28 j 01:41	8°♋24'04	0°59'07
max. Earth dist.	-7851 Aug 28 j 07:01	8°♋24'54	19.84606 AU
morning rise	-7851 Sep 12 j 14:56	9°♋21'37	
retrograde	-7851 Dec 13 j 14:03	12°♋39'12	
opposition	-7850 Feb 27 j 13:35	10°♋38'45	1°05'36
min. Earth dist.	-7850 Feb 27 j 06:21	10°♋39'30	17.87840 AU
direct	-7850 May 15 j 18:06	8°♋36'44	
evening set	-7850 Aug 17 j 02:52	11°♋56'06	
conjunction	-7850 Sep 01 j 16:54	12°♋53'33	0°59'15
minimum elong	-7850 Sep 01 j 16:54	12°♋53'33	0°59'46
max. Earth dist.	-7850 Sep 02 j 00:53	12°♋54'47	19.91061 AU
morning rise	-7850 Sep 17 j 05:50	13°♋50'51	
retrograde	-7850 Dec 18 j 07:23	17°♋07'53	
opposition	-7849 Mar 04 j 12:46	15°♋07'29	1°06'07
min. Earth dist.	-7849 Mar 04 j 04:26	15°♋08'21	17.94334 AU
direct	-7849 May 20 j 15:24	13°♋05'51	
evening set	-7849 Aug 21 j 17:49	16°♋23'52	
conjunction	-7849 Sep 06 j 07:19	17°♋21'01	0°59'33
minimum elong	-7849 Sep 06 j 07:19	17°♋21'01	1°00'04
max. Earth dist.	-7849 Sep 06 j 16:57	17°♋22'30	19.97588 AU
morning rise	-7849 Sep 21 j 20:09	18°♋18'04	
retrograde	-7849 Dec 23 j 01:27	21°♋34'30	
opposition	-7848 Mar 08 j 10:47	19°♋34'09	1°06'13
min. Earth dist.	-7848 Mar 07 j 23:17	19°♋35'20	18.00883 AU
direct	-7848 May 24 j 13:29	17°♋32'51	
evening set	-7848 Aug 25 j 07:42	20°♋49'30	
conjunction	-7848 Sep 09 j 20:52	21°♋46'23	0°59'29
minimum elong	-7848 Sep 09 j 20:52	21°♋46'23	1°00'00
max. Earth dist.	-7848 Sep 10 j 09:20	21°♋48'17	20.04157 AU
morning rise	-7848 Sep 25 j 09:31	22°♋43'11	
retrograde	-7848 Dec 26 j 17:08	25°♋59'02	
opposition	-7847 Mar 13 j 08:20	23°♋58'42	1°05'56
min. Earth dist.	-7847 Mar 12 j 19:38	24°♋00'00	18.07488 AU
direct	-7847 May 29 j 09:07	21°♋57'45	
evening set	-7847 Aug 29 j 20:35	25°♋13'01	
conjunction	-7847 Sep 14 j 09:20	26°♋09'37	0°59'04
minimum elong	-7847 Sep 14 j 09:21	26°♋09'37	0°59'34
max. Earth dist.	-7847 Sep 14 j 23:26	26°♋11'46	20.10801 AU
morning rise	-7847 Sep 29 j 22:06	27°♋06'11	
	-7847 Dec 02 j 14:29	0°♌	
retrograde	-7847 Dec 31 j 09:42	0°♌21'27	
	-7846 Jan 29 j 21:30	30°℞♋	
opposition	-7846 Mar 18 j 04:54	28°♋21'08	1°05'16
min. Earth dist.	-7846 Mar 17 j 12:57	28°♋22'46	18.14170 AU
direct	-7846 Jun 03 j 04:53	26°♋20'31	
evening set	-7846 Sep 03 j 08:35	29°♋34'26	
	-7846 Sep 10 j 10:54	0°♌	
conjunction	-7846 Sep 18 j 21:12	0°♌30'46	0°58'20
minimum elong	-7846 Sep 18 j 21:12	0°♌30'46	0°58'49
max. Earth dist.	-7846 Sep 19 j 14:22	0°♌33'23	20.17512 AU
morning rise	-7846 Oct 04 j 09:56	1°♌27'07	
retrograde	-7845 Jan 04 j 23:57	4°♌41'47	
min. Earth dist.	-7845 Mar 22 j 07:21	2°♌43'17	18.20928 AU
opposition	-7845 Mar 23 j 00:36	2°♌41'32	1°04'14
direct	-7845 Jun 07 j 22:12	0°♌41'17	
evening set	-7845 Sep 07 j 19:47	3°♌53'52	
conjunction	-7845 Sep 23 j 08:12	4°♌49'56	0°57'16
minimum elong	-7845 Sep 23 j 08:12	4°♌49'56	0°57'43
max. Earth dist.	-7845 Sep 24 j 02:40	4°♌52'44	20.24310 AU
morning rise	-7845 Oct 08 j 21:15	5°♌46'05	
retrograde	-7844 Jan 09 j 15:27	9°♌00'11	
opposition	-7844 Mar 26 j 19:23	6°♌59'59	1°02'51
min. Earth dist.	-7844 Mar 25 j 23:10	7°♌02'02	18.27756 AU
direct	-7844 Jun 11 j 15:21	5°♌00'06	
evening set	-7844 Sep 11 j 06:04	8°♌11'25	
conjunction	-7844 Sep 26 j 18:32	9°♌07'14	0°55'53
minimum elong	-7844 Sep 26 j 18:32	9°♌07'14	0°56'21
max. Earth dist.	-7844 Sep 27 j 16:02	9°♌10'29	20.31146 AU
morning rise	-7844 Oct 12 j 07:42	10°♌03'11	
retrograde	-7843 Jan 13 j 04:22	13°♌16'44	
opposition	-7843 Mar 31 j 13:28	11°♌16'38	1°01'08
min. Earth dist.	-7843 Mar 30 j 16:00	11°♌18'49	18.34602 AU
direct	-7843 Jun 16 j 06:26	9°♌17'10	
evening set	-7843 Sep 15 j 15:45	12°♌27'13	
conjunction	-7843 Oct 01 j 04:10	13°♌22'49	0°54'13
minimum elong	-7843 Oct 01 j 04:10	13°♌22'49	0°54'38
max. Earth dist.	-7843 Oct 02 j 02:41	13°♌26'12	20.37998 AU
morning rise	-7843 Oct 16 j 17:50	14°♌18'34	
	-7843 Oct 28 j 19:32	15°♌	
retrograde	-7842 Jan 17 j 19:11	17°♌31'36	
min. Earth dist.	-7842 Apr 04 j 06:46	15°♌34'01	18.41440 AU
opposition	-7842 Apr 05 j 06:42	15°♌31'36	0°59'05
	-7842 Apr 18 j 10:56	15°℞♌	
direct	-7842 Jun 20 j 21:16	13°♌32'32	
	-7842 Aug 19 j 07:15	15°♌	
evening set	-7842 Sep 20 j 00:36	16°♌41'21	
conjunction	-7842 Oct 05 j 13:18	17°♌36'45	0°52'15
minimum elong	-7842 Oct 05 j 13:18	17°♌36'45	0°52'40
max. Earth dist.	-7842 Oct 06 j 14:37	17°♌40'33	20.44790 AU
morning rise	-7842 Oct 21 j 03:17	18°♌32'21	
retrograde	-7841 Jan 22 j 07:27	21°♌44'51	
opposition	-7841 Apr 09 j 23:11	19°♌44'59	0°56'44
min. Earth dist.	-7841 Apr 08 j 22:18	19°♌47'30	18.48174 AU
direct	-7841 Jun 25 j 10:41	17°♌46'19	
evening set	-7841 Sep 24 j 09:04	20°♌53'58	
conjunction	-7841 Oct 09 j 21:51	21°♌49'09	0°50'01
minimum elong	-7841 Oct 09 j 21:51	21°♌49'09	0°50'23
max. Earth dist.	-7841 Oct 10 j 23:41	21°♌53'00	20.51453 AU
morning rise	-7841 Oct 25 j 12:28	22°♌44'36	
retrograde	-7840 Jan 26 j 21:02	25°♌56'35	
opposition	-7840 Apr 13 j 14:43	23°♌56'50	0°54'05
min. Earth dist.	-7840 Apr 12 j 12:05	23°♌59'31	18.54751 AU
direct	-7840 Jun 28 j 23:22	21°♌58'33	
evening set	-7840 Sep 27 j 16:52	25°♌05'04	
conjunction	-7840 Oct 13 j 06:03	26°♌00'05	0°47'32
minimum elong	-7840 Oct 13 j 06:03	26°♌00'05	0°47'52
max. Earth dist.	-7840 Oct 14 j 10:16	26°♌04'16	20.57912 AU
morning rise	-7840 Oct 28 j 21:06	26°♌55'22	
	-7839 Jan 13 j 19:07	0°♍	
retrograde	-7839 Jan 30 j 08:51	0°♍06'53	
	-7839 Feb 16 j 05:16	30°℞♌	
min. Earth dist.	-7839 Apr 17 j 02:20	28°♌09'59	18.61082 AU
opposition	-7839 Apr 18 j 05:41	28°♌07'14	0°51'10
direct	-7839 Jul 03 j 11:58	26°♌09'20	
evening set	-7839 Oct 02 j 00:11	29°♌14'44	
	-7839 Oct 14 j 20:55	0°♍	
conjunction	-7839 Oct 17 j 13:36	0°♍09'34	0°44'48
minimum elong	-7839 Oct 17 j 13:37	0°♍09'34	0°45'07
max. Earth dist.	-7839 Oct 18 j 17:53	0°♍13'45	20.64103 AU
morning rise	-7839 Nov 02 j 05:27	1°♍04'44	
retrograde	-7838 Feb 03 j 21:30	4°♍15'46	

Attention, astronomical year style is used: The year -7838 in astronomical counting style is the year 7839 BCE in historical counting style.

opposition	-7838 Apr 22 j 19:55	2°♍16'12	0°48'00
min. Earth dist.	-7838 Apr 21 j 15:25	2°♍19'04	18.67120 AU
direct	-7838 Jul 07 j 22:45	0°♍18'36	
evening set	-7838 Oct 06 j 07:03	3°♍22'58	
conjunction	-7838 Oct 21 j 21:05	4°♍17'39	0°41'51
minimum elong	-7838 Oct 21 j 21:05	4°♍17'39	0°42'07
max. Earth dist.	-7838 Oct 23 j 03:15	4°♍22'06	20.69953 AU
morning rise	-7838 Nov 06 j 13:28	5°♍12'42	
retrograde	-7837 Feb 08 j 08:19	8°♍23'15	
min. Earth dist.	-7837 Apr 26 j 04:17	6°♍26'38	18.72779 AU
opposition	-7837 Apr 27 j 09:12	6°♍23'44	0°44'36
direct	-7837 Jul 12 j 10:39	4°♍26'25	
evening set	-7837 Oct 10 j 13:35	7°♍29'46	
conjunction	-7837 Oct 26 j 04:00	8°♍24'19	0°38'42
minimum elong	-7837 Oct 26 j 04:00	8°♍24'19	0°38'58
max. Earth dist.	-7837 Oct 27 j 09:40	8°♍28'41	20.75417 AU
morning rise	-7837 Nov 10 j 21:18	9°♍19'16	
retrograde	-7836 Feb 12 j 19:55	12°♍29'21	
opposition	-7836 Apr 30 j 21:52	10°♍29'51	0°40'59
min. Earth dist.	-7836 Apr 29 j 16:21	10°♍32'48	18.78042 AU
direct	-7836 Jul 15 j 20:03	8°♍32'46	
evening set	-7836 Oct 13 j 19:22	11°♍35'09	
conjunction	-7836 Oct 29 j 10:31	12°♍29'35	0°35'22
minimum elong	-7836 Oct 29 j 10:31	12°♍29'35	0°35'35
max. Earth dist.	-7836 Oct 30 j 17:51	12°♍34'10	20.80464 AU
morning rise	-7836 Nov 14 j 04:28	13°♍24'26	
retrograde	-7835 Feb 16 j 05:25	16°♍34'03	
min. Earth dist.	-7835 May 04 j 03:49	14°♍37'32	18.82879 AU
opposition	-7835 May 05 j 09:47	14°♍34'32	0°37'12
direct	-7835 Jul 20 j 06:57	12°♍37'39	
evening set	-7835 Oct 18 j 00:58	15°♍39'06	
conjunction	-7835 Nov 02 j 16:37	16°♍33'26	0°31'53
minimum elong	-7835 Nov 02 j 16:38	16°♍33'26	0°32'05
max. Earth dist.	-7835 Nov 03 j 23:23	16°♍37'55	20.85110 AU
morning rise	-7835 Nov 18 j 11:37	17°♍28'12	
retrograde	-7834 Feb 20 j 15:57	20°♍37'24	
opposition	-7834 May 09 j 20:54	18°♍37'50	0°33'15
min. Earth dist.	-7834 May 08 j 14:40	18°♍40'51	18.87337 AU
direct	-7834 Jul 24 j 15:11	16°♍41'05	
evening set	-7834 Oct 22 j 06:00	19°♍41'41	
conjunction	-7834 Nov 06 j 22:32	20°♍35'56	0°28'16
minimum elong	-7834 Nov 06 j 22:32	20°♍35'56	0°28'25
max. Earth dist.	-7834 Nov 08 j 06:53	20°♍40'38	20.89374 AU
morning rise	-7834 Nov 22 j 18:17	21°♍30'39	
retrograde	-7833 Feb 25 j 00:15	24°♍39'24	
min. Earth dist.	-7833 May 13 j 00:33	22°♍42'53	18.91418 AU
opposition	-7833 May 14 j 07:12	22°♍39'48	0°29'10
direct	-7833 Jul 29 j 00:25	20°♍43'12	
evening set	-7833 Oct 26 j 10:54	23°♍43'02	
conjunction	-7833 Nov 11 j 04:00	24°♍37'11	0°24'32
minimum elong	-7833 Nov 11 j 04:00	24°♍37'11	0°24'38
max. Earth dist.	-7833 Nov 12 j 11:39	24°♍41'46	20.93287 AU
morning rise	-7833 Nov 27 j 00:49	25°♍31'51	
retrograde	-7832 Feb 29 j 09:45	28°♍40'14	
min. Earth dist.	-7832 May 16 j 10:06	26°♍43'40	18.95174 AU
opposition	-7832 May 17 j 16:49	26°♍40'36	0°24'58
direct	-7832 Aug 01 j 07:15	24°♍44'07	
evening set	-7832 Oct 29 j 15:24	27°♍43'15	
conjunction	-7832 Nov 14 j 09:26	28°♍37'22	0°20'42
minimum elong	-7832 Nov 14 j 09:26	28°♍37'22	0°20'47

max. Earth dist.	-7832 Nov 15 j 18:35	28°♍42'09	20.96879 AU
morning rise	-7832 Nov 30 j 07:02	29°♍31'59	
	-7832 Dec 08 j 17:39	0°♎	
retrograde	-7831 Mar 04 j 17:26	2°♎40'03	
min. Earth dist.	-7831 May 20 j 18:40	0°♎43'31	18.98607 AU
opposition	-7831 May 22 j 01:50	0°♎40'23	0°20'39
	-7831 Jun 08 j 05:11	30°℞♍	
direct	-7831 Aug 05 j 14:37	28°♍44'03	
	-7831 Sep 30 j 01:10	0°♎	
evening set	-7831 Nov 02 j 19:46	1°♎42'34	
conjunction	-7831 Nov 18 j 14:30	2°♎36'38	0°16'47
minimum elong	-7831 Nov 18 j 14:30	2°♎36'38	0°16'48
max. Earth dist.	-7831 Nov 19 j 22:48	2°♎41'17	21.00160 AU
morning rise	-7831 Dec 04 j 13:17	3°♎31'15	
retrograde	-7830 Mar 09 j 02:16	6°♎39'02	
min. Earth dist.	-7830 May 25 j 03:30	4°♎42'28	19.01731 AU
opposition	-7830 May 26 j 10:22	4°♎39'22	0°16'16
direct	-7830 Aug 09 j 20:21	2°♎43'10	
evening set	-7830 Nov 07 j 00:04	5°♎41'09	
conjunction	-7830 Nov 22 j 19:51	6°♎35'13	0°12'48
minimum elong	-7830 Nov 22 j 19:51	6°♎35'13	0°12'48
behind sun begin	-7830 Nov 22 j 15:42	6°♎34'39	
behind sun end	-7830 Nov 22 j 23:59	6°♎35'48	
max. Earth dist.	-7830 Nov 24 j 05:17	6°♎40'01	21.03111 AU
morning rise	-7830 Dec 08 j 19:29	7°♎29'50	
retrograde	-7829 Mar 13 j 10:14	10°♎37'22	
min. Earth dist.	-7829 May 29 j 11:09	8°♎40'52	19.04501 AU
opposition	-7829 May 30 j 18:09	8°♎37'45	0°11'49
direct	-7829 Aug 14 j 02:25	6°♎41'41	
evening set	-7829 Nov 11 j 04:25	9°♎39'15	
conjunction	-7829 Nov 27 j 00:58	10°♎33'18	0°08'45
minimum elong	-7829 Nov 27 j 00:57	10°♎33'18	0°08'43
behind sun begin	-7829 Nov 26 j 19:14	10°♎32'30	
behind sun end	-7829 Nov 27 j 06:41	10°♎34'06	
max. Earth dist.	-7829 Nov 28 j 09:09	10°♎37'54	21.05706 AU
morning rise	-7829 Dec 13 j 01:47	11°♎27'57	
retrograde	-7828 Mar 16 j 18:18	14°♎35'18	
min. Earth dist.	-7828 Jun 01 j 19:31	12°♎38'44	19.06909 AU
opposition	-7828 Jun 03 j 01:45	12°♎35'42	0°07'18
direct	-7828 Aug 17 j 07:10	10°♎39'46	
evening set	-7828 Nov 14 j 08:34	13°♎36'58	
conjunction	-7828 Nov 30 j 06:12	14°♎31'03	0°04'41
minimum elong	-7828 Nov 30 j 06:12	14°♎31'03	0°04'38
behind sun begin	-7828 Nov 29 j 23:44	14°♎30'09	
behind sun end	-7828 Nov 30 j 12:40	14°♎31'57	
max. Earth dist.	-7828 Dec 01 j 15:15	14°♎35'47	21.07909 AU
morning rise	-7828 Dec 16 j 07:54	15°♎25'44	
retrograde	-7827 Mar 21 j 02:54	18°♎32'56	
min. Earth dist.	-7827 Jun 06 j 02:50	16°♎36'25	19.08890 AU
opposition	-7827 Jun 07 j 08:54	16°♎33'24	0°02'46
direct	-7827 Aug 21 j 12:51	14°♎37'35	
evening set	-7827 Nov 18 j 13:11	17°♎34'31	
conjunction	-7827 Dec 04 j 11:38	18°♎28'38	0°00'32
minimum elong	-7827 Dec 04 j 11:38	18°♎28'38	0°00'25
behind sun begin	-7827 Dec 04 j 05:03	18°♎27'44	
behind sun end	-7827 Dec 04 j 18:13	18°♎29'33	
max. Earth dist.	-7827 Dec 05 j 18:57	18°♎33'06	21.09671 AU
morning rise	-7827 Dec 20 j 14:33	19°♎23'22	
desc. node	-7826 Jan 20 j 14:22	20°♎58'14	
retrograde	-7826 Mar 25 j 10:24	22°♎30'29	
min. Earth dist.	-7826 Jun 10 j 11:01	20°♎33'52	19.10418 AU
opposition	-7826 Jun 11 j 15:43	20°♎30'59	-0°01'47

Attention, astronomical year style is used: The year -7826 in astronomical counting style is the year 7827 BCE in historical counting style.

direct	-7826 Aug 25 j 16:48	18°♎35'14	
evening set	-7826 Nov 22 j 17:52	21°♎32'00	
conjunction	-7826 Dec 08 j 17:29	22°♎26'10	-0°03'41
minimum elong	-7826 Dec 08 j 17:29	22°♎26'10	0°03'49
behind sun begin	-7826 Dec 08 j 10:56	22°♎25'16	
behind sun end	-7826 Dec 09 j 00:02	22°♎27'04	
max. Earth dist.	-7826 Dec 10 j 01:00	22°♎30'39	21.10940 AU
morning rise	-7826 Dec 24 j 21:17	23°♎20'57	
retrograde	-7825 Mar 29 j 19:00	26°♎27'59	
opposition	-7825 Jun 15 j 22:11	24°♎28'32	-0°06'19
min. Earth dist.	-7825 Jun 14 j 18:05	24°♎31'21	19.11413 AU
direct	-7825 Aug 29 j 22:29	22°♎32'49	
evening set	-7825 Nov 26 j 22:54	25°♎29'28	
conjunction	-7825 Dec 12 j 23:19	26°♎23'43	-0°07'45
minimum elong	-7825 Dec 12 j 23:19	26°♎23'43	0°07'56
behind sun begin	-7825 Dec 12 j 17:23	26°♎22'54	
behind sun end	-7825 Dec 13 j 05:16	26°♎24'32	
max. Earth dist.	-7825 Dec 14 j 04:34	26°♎27'52	21.11661 AU
morning rise	-7825 Dec 29 j 04:19	27°♎18'34	
	-7824 Feb 29 j 07:24	0°♏	
retrograde	-7824 Apr 02 j 02:23	0°♏25'35	
	-7824 May 05 j 08:24	30°℞♎	
min. Earth dist.	-7824 Jun 18 j 02:12	28°♎28'45	19.11853 AU
opposition	-7824 Jun 19 j 04:32	28°♎26'07	-0°10'50
direct	-7824 Sep 02 j 02:07	26°♎30'23	
evening set	-7824 Nov 30 j 04:03	29°♎27'00	
	-7824 Dec 09 j 23:27	0°♏	
conjunction	-7824 Dec 16 j 05:41	0°♏21'19	-0°11'48
minimum elong	-7824 Dec 16 j 05:41	0°♏21'19	0°12'01
behind sun begin	-7824 Dec 16 j 01:09	0°♏20'42	
behind sun end	-7824 Dec 16 j 10:13	0°♏21'57	
max. Earth dist.	-7824 Dec 17 j 10:42	0°♏25'27	21.11809 AU
morning rise	-7823 Jan 01 j 11:33	1°♏16'16	
retrograde	-7823 Apr 06 j 10:26	4°♏23'15	
min. Earth dist.	-7823 Jun 22 j 08:58	2°♏26'19	19.11700 AU
opposition	-7823 Jun 23 j 10:32	2°♏23'45	-0°15'17
direct	-7823 Sep 06 j 07:47	0°♏27'58	
evening set	-7823 Dec 04 j 09:35	3°♏24'35	
conjunction	-7823 Dec 20 j 12:08	4°♏19'00	-0°15'47
minimum elong	-7823 Dec 20 j 12:08	4°♏19'00	0°16'01
max. Earth dist.	-7823 Dec 21 j 14:32	4°♏22'45	21.11373 AU
morning rise	-7822 Jan 05 j 19:15	5°♏14'03	
retrograde	-7822 Apr 10 j 18:07	8°♏21'02	
opposition	-7822 Jun 27 j 16:27	6°♏21'27	-0°19'40
min. Earth dist.	-7822 Jun 26 j 16:57	6°♏23'49	19.10976 AU
direct	-7822 Sep 10 j 11:29	4°♏25'33	
evening set	-7822 Dec 08 j 15:19	7°♏22'14	
conjunction	-7822 Dec 24 j 19:05	8°♏16'47	-0°19'42
minimum elong	-7822 Dec 24 j 19:05	8°♏16'47	0°19'59
max. Earth dist.	-7822 Dec 25 j 21:05	8°♏20'28	21.10371 AU
morning rise	-7821 Jan 10 j 03:02	9°♏11'56	
retrograde	-7821 Apr 15 j 01:36	12°♏18'55	
opposition	-7821 Jul 01 j 21:52	10°♏19'15	-0°23'57
min. Earth dist.	-7821 Jun 30 j 23:14	10°♏21'33	19.09701 AU
direct	-7821 Sep 14 j 16:52	8°♏23'12	
evening set	-7821 Dec 12 j 21:26	11°♏20'03	
conjunction	-7821 Dec 29 j 02:05	12°♏14'42	-0°23'31
minimum elong	-7821 Dec 29 j 02:04	12°♏14'42	0°23'50
max. Earth dist.	-7821 Dec 30 j 01:28	12°♏18'01	21.08856 AU
morning rise	-7820 Jan 14 j 11:12	13°♏09'59	
	-7820 Feb 20 j 11:01	15°♏	

retrograde	-7820 Apr 18 j 09:16	16°♏17'01	
	-7820 Jun 17 j 04:30	15°℞♏	
min. Earth dist.	-7820 Jul 04 j 06:49	14°♏19'19	19.07955 AU
opposition	-7820 Jul 05 j 03:23	14°♏17'14	-0°28'07
direct	-7820 Sep 17 j 20:23	12°♏20'59	
	-7820 Dec 10 j 15:41	15°♏	
evening set	-7820 Dec 16 j 03:37	15°♏18'03	
conjunction	-7819 Jan 01 j 09:29	16°♏12'52	-0°27'14
minimum elong	-7819 Jan 01 j 09:29	16°♏12'52	0°27'35
max. Earth dist.	-7819 Jan 02 j 08:35	16°♏16'08	21.06889 AU
morning rise	-7819 Jan 17 j 19:26	17°♏08'16	
retrograde	-7819 Apr 22 j 17:10	20°♏15'23	
opposition	-7819 Jul 09 j 08:39	18°♏15'30	-0°32'09
min. Earth dist.	-7819 Jul 08 j 12:52	18°♏17'30	19.05773 AU
direct	-7819 Sep 22 j 01:44	16°♏19'03	
evening set	-7819 Dec 20 j 10:33	19°♏16'25	
conjunction	-7818 Jan 05 j 17:18	20°♏11'23	-0°30'49
minimum elong	-7818 Jan 05 j 17:18	20°♏11'22	0°31'11
max. Earth dist.	-7818 Jan 06 j 13:44	20°♏14'16	21.04515 AU
morning rise	-7818 Jan 22 j 04:23	21°♏06'56	
retrograde	-7818 Apr 27 j 01:01	24°♏14'11	
opposition	-7818 Jul 13 j 13:53	22°♏14'11	-0°36'03
min. Earth dist.	-7818 Jul 12 j 20:21	22°♏15'58	19.03217 AU
direct	-7818 Sep 26 j 05:02	20°♏17'30	
evening set	-7818 Dec 24 j 17:49	23°♏15'17	
conjunction	-7817 Jan 10 j 01:46	24°♏10'25	-0°34'16
minimum elong	-7817 Jan 10 j 01:46	24°♏10'25	0°34'39
max. Earth dist.	-7817 Jan 10 j 21:41	24°♏13'15	21.01776 AU
morning rise	-7817 Jan 26 j 13:36	25°♏06'08	
retrograde	-7817 May 01 j 09:53	28°♏13'32	
opposition	-7817 Jul 17 j 19:07	26°♏13'28	-0°39'47
min. Earth dist.	-7817 Jul 17 j 02:23	26°♏15'11	19.00299 AU
direct	-7817 Sep 30 j 10:32	24°♏16'35	
evening set	-7817 Dec 29 j 01:36	27°♏14'49	
conjunction	-7816 Jan 14 j 10:23	28°♏10'09	-0°37'34
minimum elong	-7816 Jan 14 j 10:22	28°♏10'09	0°37'59
max. Earth dist.	-7816 Jan 15 j 03:30	28°♏12'35	20.98693 AU
morning rise	-7816 Jan 30 j 23:15	29°♏06'02	
	-7816 Feb 16 j 19:57	0°♐	
retrograde	-7816 May 04 j 18:18	2°♐13'40	
min. Earth dist.	-7816 Jul 20 j 10:10	0°♐15'00	18.97055 AU
opposition	-7816 Jul 21 j 00:36	0°♐13'32	-0°43'21
	-7816 Jul 26 j 12:32	30°℞♏	
direct	-7816 Oct 03 j 14:15	28°♏16'25	
	-7816 Dec 08 j 08:03	0°♐	
evening set	-7815 Jan 01 j 09:57	1°♐15'14	
conjunction	-7815 Jan 17 j 19:55	2°♐10'45	-0°40'41
minimum elong	-7815 Jan 17 j 19:54	2°♐10'45	0°41'07
max. Earth dist.	-7815 Jan 18 j 12:20	2°♐13'05	20.95287 AU
morning rise	-7815 Feb 03 j 09:29	3°♐06'49	
retrograde	-7815 May 09 j 04:14	6°♐14'43	
opposition	-7815 Jul 25 j 06:02	4°♐14'32	-0°46'42
min. Earth dist.	-7815 Jul 24 j 16:34	4°♐15'55	18.93476 AU
direct	-7815 Oct 07 j 19:51	2°♐17'13	
evening set	-7814 Jan 05 j 19:12	5°♐16'40	
conjunction	-7814 Jan 22 j 06:00	6°♐12'25	-0°43'38
minimum elong	-7814 Jan 22 j 06:00	6°♐12'25	0°44'06
max. Earth dist.	-7814 Jan 22 j 19:16	6°♐14'18	20.91544 AU
morning rise	-7814 Feb 07 j 20:34	7°♐08'41	
retrograde	-7814 May 13 j 13:47	10°♐16'53	
opposition	-7814 Jul 29 j 11:53	8°♐16'39	-0°49'52

Attention, astronomical year style is used: The year -7814 in astronomical counting style is the year 7815 BCE in historical counting style.

min. Earth dist.	-7814 Jul 29 j 01:05	8°♐17'46	18.89561 AU
direct	-7814 Oct 12 j 00:30	6°♐19'06	
evening set	-7813 Jan 10 j 05:03	9°♐19'18	
conjunction	-7813 Jan 26 j 16:56	10°♐15'16	-0°46'22
minimum elong	-7813 Jan 26 j 16:56	10°♐15'16	0°46'51
max. Earth dist.	-7813 Jan 27 j 05:06	10°♐17'00	20.87446 AU
morning rise	-7813 Feb 12 j 08:04	11°♐11'44	
retrograde	-7813 May 18 j 00:38	14°♐20'16	
opposition	-7813 Aug 02 j 17:47	12°♐20'02	-0°52'47
min. Earth dist.	-7813 Aug 02 j 08:13	12°♐21'01	18.85268 AU
direct	-7813 Oct 16 j 06:41	10°♐22'14	
evening set	-7812 Jan 14 j 15:52	13°♐23'15	
conjunction	-7812 Jan 31 j 04:30	14°♐19'27	-0°48'54
minimum elong	-7812 Jan 31 j 04:30	14°♐19'27	0°49'23
max. Earth dist.	-7812 Jan 31 j 13:11	14°♐20'42	20.82964 AU
morning rise	-7812 Feb 16 j 20:30	15°♐16'08	
retrograde	-7812 May 21 j 11:10	18°♐25'04	
opposition	-7812 Aug 06 j 00:16	16°♐24'46	-0°55'27
min. Earth dist.	-7812 Aug 05 j 17:40	16°♐25'27	18.80590 AU
direct	-7812 Oct 19 j 12:17	14°♐26'42	
evening set	-7811 Jan 18 j 03:16	17°♐28'36	
conjunction	-7811 Feb 03 j 16:59	18°♐25'03	-0°51'11
minimum elong	-7811 Feb 03 j 16:59	18°♐25'03	0°51'41
max. Earth dist.	-7811 Feb 04 j 00:07	18°♐26'05	20.78076 AU
morning rise	-7811 Feb 20 j 09:31	19°♐21'57	
retrograde	-7811 May 25 j 23:13	22°♐31'17	
opposition	-7811 Aug 10 j 07:01	20°♐30'56	-0°57'51
min. Earth dist.	-7811 Aug 10 j 01:52	20°♐31'28	18.75478 AU
direct	-7811 Oct 23 j 19:56	18°♐32'33	
evening set	-7810 Jan 22 j 15:51	21°♐35'23	
conjunction	-7810 Feb 08 j 06:15	22°♐32'06	-0°53'13
minimum elong	-7810 Feb 08 j 06:15	22°♐32'06	0°53'43
max. Earth dist.	-7810 Feb 08 j 09:33	22°♐32'34	20.72745 AU
morning rise	-7810 Feb 24 j 23:31	23°♐29'14	
retrograde	-7810 May 30 j 10:17	26°♐38'58	
opposition	-7810 Aug 14 j 14:15	24°♐38'32	-0°59'58
min. Earth dist.	-7810 Aug 14 j 12:20	24°♐38'44	18.69936 AU
direct	-7810 Oct 28 j 02:29	22°♐39'48	
evening set	-7809 Jan 27 j 05:01	25°♐43'37	
conjunction	-7809 Feb 12 j 20:24	26°♐40'36	-0°54'58
minimum elong	-7809 Feb 12 j 20:24	26°♐40'36	0°55'30
max. Earth dist.	-7809 Feb 12 j 21:54	26°♐40'49	20.66997 AU
morning rise	-7809 Mar 01 j 14:05	27°♐37'58	
	-7809 Apr 20 j 13:01	0°♑	
retrograde	-7809 Jun 03 j 23:38	0°♑48'08	
	-7809 Jul 18 j 22:35	30°℞♐	
opposition	-7809 Aug 18 j 21:51	28°♐47'35	-1°01'47
min. Earth dist.	-7809 Aug 18 j 21:19	28°♐47'39	18.63984 AU
direct	-7809 Nov 01 j 11:50	26°♐48'28	
evening set	-7808 Jan 31 j 18:56	29°♐53'18	
	-7808 Feb 02 j 18:29	0°♑	
conjunction	-7808 Feb 17 j 10:56	0°♑50'33	-0°56'27
minimum elong	-7808 Feb 17 j 10:56	0°♑50'33	0°56'58
max. Earth dist.	-7808 Feb 17 j 08:51	0°♑50'15	20.60865 AU
morning rise	-7808 Mar 05 j 05:14	1°♑48'09	
retrograde	-7808 Jun 07 j 10:58	4°♑58'46	
opposition	-7808 Aug 22 j 06:00	2°♑58'05	-1°03'17
min. Earth dist.	-7808 Aug 22 j 08:39	2°♑57'49	18.57692 AU
direct	-7808 Nov 04 j 19:13	0°♑58'32	
evening set	-7807 Feb 04 j 09:39	4°♑04'27	

conjunction	-7807 Feb 21 j 02:32	5°♑02'00	-0°57'38
minimum elong	-7807 Feb 21 j 02:32	5°♑02'00	0°58'10
max. Earth dist.	-7807 Feb 20 j 22:43	5°♑01'26	20.54432 AU
morning rise	-7807 Mar 09 j 21:10	5°♑59'50	
retrograde	-7807 Jun 12 j 01:37	9°♑10'54	
opposition	-7807 Aug 26 j 14:20	7°♑10'04	-1°04'27
min. Earth dist.	-7807 Aug 26 j 18:15	7°♑09'39	18.51128 AU
direct	-7807 Nov 09 j 06:03	5°♑10'04	
evening set	-7806 Feb 09 j 01:23	8°♑17'07	
conjunction	-7806 Feb 25 j 18:49	9°♑14'57	-0°58'31
minimum elong	-7806 Feb 25 j 18:49	9°♑14'57	0°59'03
max. Earth dist.	-7806 Feb 25 j 11:38	9°♑13'54	20.47759 AU
morning rise	-7806 Mar 14 j 13:52	10°♑13'02	
retrograde	-7806 Jun 16 j 13:34	13°♑24'34	
opposition	-7806 Aug 30 j 23:25	11°♑23'35	-1°05'16
min. Earth dist.	-7806 Aug 31 j 06:24	11°♑22'51	18.44375 AU
direct	-7806 Nov 13 j 14:41	9°♑23'07	
evening set	-7805 Feb 13 j 17:41	12°♑31'21	
conjunction	-7805 Mar 02 j 11:47	13°♑29'28	-0°59'05
minimum elong	-7805 Mar 02 j 11:48	13°♑29'28	0°59'37
max. Earth dist.	-7805 Mar 02 j 02:59	13°♑28'11	20.40937 AU
morning rise	-7805 Mar 19 j 07:02	14°♑27'48	
retrograde	-7805 Jun 21 j 05:05	17°♑39'51	
opposition	-7805 Sep 04 j 08:52	15°♑38'43	-1°05'45
min. Earth dist.	-7805 Sep 04 j 16:49	15°♑37'52	18.37502 AU
direct	-7805 Nov 18 j 02:56	13°♑37'49	
evening set	-7804 Feb 18 j 10:58	16°♑47'16	
conjunction	-7804 Mar 06 j 05:30	17°♑45'40	-0°59'20
minimum elong	-7804 Mar 06 j 05:30	17°♑45'40	0°59'52
max. Earth dist.	-7804 Mar 05 j 17:47	17°♑43'58	20.34027 AU
morning rise	-7804 Mar 23 j 00:59	18°♑44'15	
retrograde	-7804 Jun 24 j 17:56	21°♑56'49	
opposition	-7804 Sep 07 j 19:04	19°♑55'33	-1°05'52
min. Earth dist.	-7804 Sep 08 j 05:51	19°♑54'24	18.30588 AU
direct	-7804 Nov 21 j 13:05	17°♑54'12	
evening set	-7803 Feb 22 j 04:58	21°♑04'56	
max. Earth dist.	-7803 Mar 10 j 10:37	22°♑01'39	20.27113 AU
conjunction	-7803 Mar 11 j 00:05	22°♑03'38	-0°59'16
minimum elong	-7803 Mar 11 j 00:05	22°♑03'38	0°59'45
morning rise	-7803 Mar 27 j 19:41	23°♑02'27	
retrograde	-7803 Jun 29 j 10:28	26°♑15'34	
opposition	-7803 Sep 12 j 05:51	24°♑14'12	-1°05'37
min. Earth dist.	-7803 Sep 12 j 17:25	24°♑12'58	18.23678 AU
direct	-7803 Nov 26 j 02:52	22°♑12'26	
evening set	-7802 Feb 27 j 00:04	25°♑24'28	
conjunction	-7802 Mar 15 j 19:30	26°♑23'28	-0°58'51
minimum elong	-7802 Mar 15 j 19:30	26°♑23'28	0°59'21
max. Earth dist.	-7802 Mar 15 j 03:29	26°♑21'06	20.20213 AU
morning rise	-7802 Apr 01 j 15:07	27°♑22'31	
	-7802 May 27 j 13:25	0°♒	
retrograde	-7802 Jul 04 j 00:35	0°♒36'12	
	-7802 Aug 10 j 21:22	30°℞♑	
opposition	-7802 Sep 16 j 17:26	28°♑34'46	-1°05'00
min. Earth dist.	-7802 Sep 17 j 07:44	28°♑33'14	18.16814 AU
direct	-7802 Nov 30 j 14:55	26°♑32'35	
evening set	-7801 Mar 03 j 19:57	29°♑45'59	
	-7801 Mar 07 j 20:34	0°♒	
conjunction	-7801 Mar 20 j 15:43	0°♒45'16	-0°58'06
minimum elong	-7801 Mar 20 j 15:43	0°♒45'16	0°58'35
max. Earth dist.	-7801 Mar 19 j 21:50	0°♒42'37	20.13392 AU
morning rise	-7801 Apr 06 j 11:19	1°♒44'33	

Attention, astronomical year style is used: The year -7801 in astronomical counting style is the year 7802 BCE in historical counting style.

retrograde	-7801 Jul 08 j 18:17	4°♒58'49	
opposition	-7801 Sep 21 j 05:43	2°♒57'20	-1°04'00
min. Earth dist.	-7801 Sep 21 j 20:43	2°♒55'43	18.10030 AU
direct	-7801 Dec 05 j 06:05	0°♒54'48	
evening set	-7800 Mar 07 j 16:40	4°♒09'33	
conjunction	-7800 Mar 24 j 12:39	5°♒09'07	-0°57'00
minimum elong	-7800 Mar 24 j 12:40	5°♒09'07	0°57'28
max. Earth dist.	-7800 Mar 23 j 16:42	5°♒06'09	20.06640 AU
morning rise	-7800 Apr 10 j 08:05	6°♒08'39	
retrograde	-7800 Jul 12 j 10:14	9°♒23'30	
opposition	-7800 Sep 24 j 18:57	7°♒21'59	-1°02'37
min. Earth dist.	-7800 Sep 25 j 12:41	7°♒20'05	18.03321 AU
direct	-7800 Dec 08 j 20:25	5°♒19'06	
evening set	-7799 Mar 12 j 14:30	8°♒35'14	
conjunction	-7799 Mar 29 j 10:36	9°♒35'05	-0°55'34
minimum elong	-7799 Mar 29 j 10:37	9°♒35'05	0°56'01
max. Earth dist.	-7799 Mar 28 j 12:24	9°♒31'46	19.99972 AU
morning rise	-7799 Apr 15 j 05:54	10°♒34'50	
retrograde	-7799 Jul 17 j 05:05	13°♒50'17	
opposition	-7799 Sep 29 j 08:46	11°♒48'44	-1°00'51
min. Earth dist.	-7799 Sep 30 j 03:25	11°♒46'43	17.96683 AU
direct	-7799 Dec 13 j 13:21	9°♒45'29	
evening set	-7798 Mar 17 j 13:19	13°♒03'01	
max. Earth dist.	-7798 Apr 02 j 09:26	13°♒59'31	19.93350 AU
conjunction	-7798 Apr 03 j 09:29	14°♒03'07	-0°53'46
minimum elong	-7798 Apr 03 j 09:30	14°♒03'07	0°54'11
	-7798 Apr 19 j 07:17	15°♒	
morning rise	-7798 Apr 20 j 04:20	15°♒03'05	
retrograde	-7798 Jul 21 j 22:51	18°♒19'07	
opposition	-7798 Oct 03 j 23:48	16°♒17'33	-0°58'41
min. Earth dist.	-7798 Oct 04 j 21:05	16°♒15'14	17.90097 AU
	-7798 Nov 05 j 07:38	15°℞♒	
direct	-7798 Dec 18 j 05:45	14°♒13'55	
	-7797 Jan 29 j 14:10	15°♒	
evening set	-7797 Mar 22 j 12:50	17°♒32'49	
max. Earth dist.	-7797 Apr 07 j 06:17	18°♒29'10	19.86796 AU
conjunction	-7797 Apr 08 j 08:51	18°♒33'10	-0°51'38
minimum elong	-7797 Apr 08 j 08:52	18°♒33'10	0°52'02
morning rise	-7797 Apr 25 j 03:25	19°♒33'20	
retrograde	-7797 Jul 26 j 19:10	22°♒49'56	
opposition	-7797 Oct 08 j 15:32	20°♒48'18	-0°56'09
min. Earth dist.	-7797 Oct 09 j 13:39	20°♒45'54	17.83580 AU
direct	-7797 Dec 23 j 00:50	18°♒44'18	
evening set	-7796 Mar 26 j 13:11	22°♒04'31	
max. Earth dist.	-7796 Apr 11 j 05:16	23°♒00'54	19.80310 AU
conjunction	-7796 Apr 12 j 09:09	23°♒05'07	-0°49'10
minimum elong	-7796 Apr 12 j 09:10	23°♒05'07	0°49'31
morning rise	-7796 Apr 29 j 03:04	24°♒05'28	
retrograde	-7796 Jul 30 j 14:08	27°♒22'36	
opposition	-7796 Oct 12 j 08:08	25°♒20'54	-0°53'14
min. Earth dist.	-7796 Oct 13 j 08:35	25°♒18'14	17.77149 AU
direct	-7796 Dec 26 j 18:50	23°♒16'30	
evening set	-7795 Mar 31 j 14:23	26°♒38'00	
max. Earth dist.	-7795 Apr 16 j 03:29	27°♒34'11	19.73950 AU
conjunction	-7795 Apr 17 j 10:00	27°♒38'49	-0°46'22
minimum elong	-7795 Apr 17 j 10:00	27°♒38'49	0°46'42
morning rise	-7795 May 04 j 03:31	28°♒39'22	
	-7795 May 28 j 04:03	0°♓	
retrograde	-7795 Aug 04 j 11:38	1°♓57'00	
	-7795 Oct 15 j 05:20	30°℞♒	
opposition	-7795 Oct 17 j 01:31	29°♒55'12	-0°49'58
min. Earth dist.	-7795 Oct 18 j 02:47	29°♒52'27	17.70870 AU
direct	-7795 Dec 31 j 15:43	27°♒50'25	
	-7794 Mar 15 j 02:19	0°♓	
evening set	-7794 Apr 05 j 16:03	1°♓13'10	
max. Earth dist.	-7794 Apr 21 j 04:25	2°♓09'27	19.67758 AU
conjunction	-7794 Apr 22 j 11:27	2°♓14'11	-0°43'15
minimum elong	-7794 Apr 22 j 11:27	2°♓14'11	0°43'34
morning rise	-7794 May 09 j 04:06	3°♓14'53	
retrograde	-7794 Aug 09 j 07:46	6°♓33'00	
opposition	-7794 Oct 21 j 19:49	4°♓31'07	-0°46'21
min. Earth dist.	-7794 Oct 22 j 22:49	4°♓28'10	17.64795 AU
direct	-7793 Jan 05 j 11:44	2°♓25'57	
evening set	-7793 Apr 10 j 18:23	5°♓49'53	
max. Earth dist.	-7793 Apr 26 j 03:55	6°♓46'00	19.61828 AU
conjunction	-7793 Apr 27 j 13:10	6°♓51'06	-0°39'51
minimum elong	-7793 Apr 27 j 13:10	6°♓51'06	0°40'07
morning rise	-7793 May 14 j 05:15	7°♓51'56	
retrograde	-7793 Aug 14 j 05:47	11°♓10'31	
opposition	-7793 Oct 26 j 14:47	9°♓08'31	-0°42'26
min. Earth dist.	-7793 Oct 27 j 18:22	9°♓05'31	17.59029 AU
direct	-7792 Jan 10 j 09:50	7°♓02'59	
evening set	-7792 Apr 14 j 20:54	10°♓28'03	
max. Earth dist.	-7792 Apr 30 j 06:24	11°♓24'22	19.56228 AU
conjunction	-7792 May 01 j 15:21	11°♓29'26	-0°36'11
minimum elong	-7792 May 01 j 15:21	11°♓29'26	0°36'25
morning rise	-7792 May 18 j 06:28	12°♓30'24	
retrograde	-7792 Aug 18 j 03:04	15°♓49'25	
opposition	-7792 Oct 30 j 10:38	13°♓47'20	-0°38'13
min. Earth dist.	-7792 Oct 31 j 15:12	13°♓44'13	17.53618 AU
direct	-7791 Jan 14 j 07:48	11°♓41'29	
evening set	-7791 Apr 20 j 00:10	15°♓07'37	
max. Earth dist.	-7791 May 05 j 07:05	16°♓03'47	19.51032 AU
conjunction	-7791 May 06 j 17:47	16°♓09'08	-0°32'16
minimum elong	-7791 May 06 j 17:47	16°♓09'08	0°32'26
morning rise	-7791 May 23 j 08:07	17°♓10'12	
retrograde	-7791 Aug 23 j 01:24	20°♓29'39	
opposition	-7791 Nov 04 j 07:10	18°♓27'29	-0°33'43
min. Earth dist.	-7791 Nov 05 j 12:08	18°♓24'19	17.48659 AU
direct	-7790 Jan 19 j 06:57	16°♓21'20	
evening set	-7790 Apr 25 j 03:37	19°♓48'30	
max. Earth dist.	-7790 May 10 j 10:52	20°♓44'55	19.46313 AU
conjunction	-7790 May 11 j 20:37	20°♓50'09	-0°28'07
minimum elong	-7790 May 11 j 20:38	20°♓50'09	0°28'15
morning rise	-7790 May 28 j 09:50	21°♓51'17	
retrograde	-7790 Aug 27 j 23:59	25°♓11'08	
opposition	-7790 Nov 09 j 04:40	23°♓08'56	-0°28'59
min. Earth dist.	-7790 Nov 10 j 09:43	23°♓05'45	17.44199 AU
direct	-7789 Jan 24 j 07:05	21°♓02'34	
evening set	-7789 Apr 30 j 07:21	24°♓30'39	
conjunction	-7789 May 16 j 23:22	25°♓32'23	-0°23'46
minimum elong	-7789 May 16 j 23:22	25°♓32'23	0°23'52
max. Earth dist.	-7789 May 15 j 12:36	25°♓26'58	19.42131 AU
morning rise	-7789 Jun 02 j 11:38	26°♓33'35	
retrograde	-7789 Sep 01 j 22:21	29°♓53'50	
opposition	-7789 Nov 14 j 02:51	27°♓51'37	-0°24'02
min. Earth dist.	-7789 Nov 15 j 08:07	27°♓48'25	17.40310 AU
direct	-7788 Jan 29 j 07:08	25°♓45'05	
evening set	-7788 May 04 j 11:21	29°♓14'02	
	-7788 May 16 j 21:10	0°♈	
max. Earth dist.	-7788 May 19 j 17:03	0°♈10'36	19.38533 AU

Attention, astronomical year style is used: The year -7788 in astronomical counting style is the year 7789 BCE in historical counting style.

conjunction	-7788 May 21 j 02:34	0°♈15'50	-0°19'14
minimum elong	-7788 May 21 j 02:34	0°♈15'50	0°19'18
morning rise	-7788 Jun 06 j 13:39	1°♈17'04	
retrograde	-7788 Sep 05 j 22:00	4°♈37'40	
opposition	-7788 Nov 18 j 01:38	2°♈35'30	-0°18'54
min. Earth dist.	-7788 Nov 19 j 06:24	2°♈32'21	17.36995 AU
direct	-7787 Feb 02 j 09:29	0°♈28'53	
evening set	-7787 May 09 j 15:46	3°♈58'37	
max. Earth dist.	-7787 May 24 j 19:56	4°♈55'08	19.35514 AU
conjunction	-7787 May 26 j 05:53	5°♈00'27	-0°14'34
minimum elong	-7787 May 26 j 05:53	5°♈00'27	0°14'36
behind sun begin	-7787 May 26 j 03:07	5°♈00'02	
behind sun end	-7787 May 26 j 08:38	5°♈00'52	
morning rise	-7787 Jun 11 j 15:50	6°♈01'42	
retrograde	-7787 Sep 10 j 20:38	9°♈22'38	
opposition	-7787 Nov 23 j 01:21	7°♈20'32	-0°13'36
min. Earth dist.	-7787 Nov 24 j 06:26	7°♈17'21	17.34273 AU
direct	-7786 Feb 07 j 10:57	5°♈13'52	
evening set	-7786 May 14 j 20:06	8°♈44'17	
max. Earth dist.	-7786 May 30 j 00:29	9°♈41'00	19.33078 AU
conjunction	-7786 May 31 j 09:10	9°♈46'07	-0°09'47
minimum elong	-7786 May 31 j 09:10	9°♈46'07	0°09'45
behind sun begin	-7786 May 31 j 03:40	9°♈45'17	
behind sun end	-7786 May 31 j 14:39	9°♈46'58	
morning rise	-7786 Jun 16 j 17:53	10°♈47'21	
retrograde	-7786 Sep 15 j 21:19	14°♈08'36	
opposition	-7786 Nov 28 j 01:44	12°♈06'35	-0°08'12
min. Earth dist.	-7786 Nov 29 j 05:44	12°♈03'32	17.32104 AU
direct	-7785 Feb 12 j 15:16	9°♈59'56	
evening set	-7785 May 20 j 00:40	13°♈30'54	
max. Earth dist.	-7785 Jun 04 j 04:10	14°♈27'38	19.31179 AU
conjunction	-7785 Jun 05 j 12:31	14°♈32'43	-0°04'55
minimum elong	-7785 Jun 05 j 12:31	14°♈32'43	0°04'51
behind sun begin	-7785 Jun 05 j 05:58	14°♈31'43	
behind sun end	-7785 Jun 05 j 19:04	14°♈33'43	
morning rise	-7785 Jun 21 j 19:58	15°♈33'55	
retrograde	-7785 Sep 20 j 20:29	18°♈55'25	
opposition	-7785 Dec 03 j 02:47	16°♈53'29	-0°02'42
min. Earth dist.	-7785 Dec 04 j 07:09	16°♈50'24	17.30480 AU
direct	-7784 Feb 17 j 17:33	14°♈46'50	
evening set	-7784 May 24 j 05:07	18°♈18'15	
asc. node	-7784 Jun 02 j 12:31	18°♈53'01	
max. Earth dist.	-7784 Jun 08 j 08:18	19°♈15'03	19.29812 AU
conjunction	-7784 Jun 09 j 15:45	19°♈20'01	0°00'06
minimum elong	-7784 Jun 09 j 15:45	19°♈20'01	0°00'13
behind sun begin	-7784 Jun 09 j 09:08	19°♈19'00	
behind sun end	-7784 Jun 09 j 22:23	19°♈21'02	
morning rise	-7784 Jun 25 j 22:00	20°♈21'10	
retrograde	-7784 Sep 24 j 22:05	23°♈42'51	
opposition	-7784 Dec 07 j 04:23	21°♈41'00	0°02'49
min. Earth dist.	-7784 Dec 08 j 07:14	21°♈38'05	17.29350 AU
direct	-7783 Feb 21 j 22:34	19°♈34'24	
evening set	-7783 May 29 j 09:30	23°♈06'05	
conjunction	-7783 Jun 14 j 18:53	24°♈07'47	0°05'06
minimum elong	-7783 Jun 14 j 18:53	24°♈07'47	0°05'16
behind sun begin	-7783 Jun 14 j 12:24	24°♈06'47	
behind sun end	-7783 Jun 15 j 01:22	24°♈08'47	
max. Earth dist.	-7783 Jun 13 j 12:31	24°♈02'59	19.28922 AU
morning rise	-7783 Jun 30 j 23:42	25°♈08'51	
retrograde	-7783 Sep 29 j 22:04	28°♈30'40	
opposition	-7783 Dec 12 j 06:41	26°♈28'53	0°08'19
min. Earth dist.	-7783 Dec 13 j 09:44	26°♈25'57	17.28709 AU
direct	-7782 Feb 27 j 01:43	24°♈22'19	
evening set	-7782 Jun 03 j 13:41	27°♈54'11	
conjunction	-7782 Jun 19 j 21:39	28°♈55'46	0°09'59
minimum elong	-7782 Jun 19 j 21:40	28°♈55'46	0°10'11
behind sun begin	-7782 Jun 19 j 16:20	28°♈54'56	
behind sun end	-7782 Jun 20 j 02:59	28°♈56'35	
max. Earth dist.	-7782 Jun 18 j 16:04	28°♈51'04	19.28531 AU
morning rise	-7782 Jul 06 j 01:17	29°♈56'43	
	-7782 Jul 06 j 22:33	0°♉	
retrograde	-7782 Oct 04 j 23:45	3°♉18'36	
opposition	-7782 Dec 17 j 09:15	1°♉16'51	0°13'46
min. Earth dist.	-7782 Dec 18 j 10:16	1°♉14'09	17.28556 AU
	-7781 Jan 18 j 05:49	30°℞♈	
direct	-7781 Mar 04 j 06:43	29°♈10'22	
	-7781 Apr 17 j 03:56	0°♉	
evening set	-7781 Jun 08 j 17:15	2°♉42'13	
max. Earth dist.	-7781 Jun 23 j 20:27	3°♉39'19	19.28623 AU
conjunction	-7781 Jun 25 j 00:02	3°♉43'41	0°14'49
minimum elong	-7781 Jun 25 j 00:02	3°♉43'41	0°15'03
behind sun begin	-7781 Jun 24 j 21:39	3°♉43'19	
behind sun end	-7781 Jun 25 j 02:24	3°♉44'03	
morning rise	-7781 Jul 11 j 02:14	4°♉44'30	
retrograde	-7781 Oct 09 j 23:51	8°♉06'24	
opposition	-7781 Dec 22 j 12:17	6°♉04'41	0°19'07
min. Earth dist.	-7781 Dec 23 j 13:08	6°♉02'00	17.28898 AU
direct	-7780 Mar 08 j 10:29	3°♉58'16	
evening set	-7780 Jun 12 j 20:37	7°♉30'00	
max. Earth dist.	-7780 Jun 27 j 23:05	8°♉27'02	19.29229 AU
conjunction	-7780 Jun 29 j 01:55	8°♉31'17	0°19'32
minimum elong	-7780 Jun 29 j 01:54	8°♉31'17	0°19'49
morning rise	-7780 Jul 15 j 02:59	9°♉31'57	
retrograde	-7780 Oct 14 j 00:47	12°♉53'47	
opposition	-7780 Dec 26 j 15:14	10°♉52'05	0°24'19
min. Earth dist.	-7780 Dec 27 j 13:45	10°♉49'40	17.29758 AU
direct	-7779 Mar 13 j 15:52	8°♉45'45	
evening set	-7779 Jun 17 j 23:17	12°♉17'14	
max. Earth dist.	-7779 Jul 03 j 03:22	13°♉14'32	19.30358 AU
conjunction	-7779 Jul 04 j 03:22	13°♉18'21	0°24'07
minimum elong	-7779 Jul 04 j 03:21	13°♉18'21	0°24'25
morning rise	-7779 Jul 20 j 02:59	14°♉18'50	
	-7779 Jul 31 j 10:50	15°♉	
retrograde	-7779 Oct 19 j 00:12	17°♉40'33	
opposition	-7779 Dec 31 j 18:40	15°♉38'52	0°29'20
min. Earth dist.	-7778 Jan 01 j 16:22	15°♉36'32	17.31161 AU
	-7778 Jan 16 j 02:17	15°℞♉	
direct	-7778 Mar 18 j 20:45	13°♉32'40	
	-7778 May 16 j 20:58	15°♉	
evening set	-7778 Jun 23 j 01:17	17°♉03'44	
max. Earth dist.	-7778 Jul 08 j 04:58	18°♉01'00	19.32054 AU
conjunction	-7778 Jul 09 j 03:50	18°♉04'38	0°28'31
minimum elong	-7778 Jul 09 j 03:49	18°♉04'38	0°28'52
morning rise	-7778 Jul 25 j 02:24	19°♉04'55	
retrograde	-7778 Oct 23 j 23:59	22°♉26'30	
opposition	-7777 Jan 05 j 22:00	20°♉24'49	0°34'09
min. Earth dist.	-7777 Jan 06 j 16:57	20°♉22'47	17.33150 AU
direct	-7777 Mar 24 j 02:11	18°♉18'46	
evening set	-7777 Jun 28 j 02:30	21°♉49'20	
max. Earth dist.	-7777 Jul 13 j 08:30	22°♉46'55	19.34339 AU
conjunction	-7777 Jul 14 j 03:53	22°♉49'59	0°32'42
minimum elong	-7777 Jul 14 j 03:52	22°♉49'59	0°33'04
morning rise	-7777 Jul 30 j 01:06	23°♉50'04	

Attention, astronomical year style is used: The year -7777 in astronomical counting style is the year 7778 BCE in historical counting style.

retrograde	-7777 Oct 28 j 22:46	27°♉11'26		
opposition	-7776 Jan 11 j 01:15	25°♉09'47	0°38'42	
min. Earth dist.	-7776 Jan 11 j 18:42	25°♉07'55	17.35734 AU	
direct	-7776 Mar 28 j 07:09	23°♉03'57		
evening set	-7776 Jul 02 j 03:11	26°♉33'54		
max. Earth dist.	-7776 Jul 17 j 09:02	27°♉31'27	19.37237 AU	
conjunction	-7776 Jul 18 j 03:03	27°♉34'18	0°36'40	
minimum elong	-7776 Jul 18 j 03:03	27°♉34'18	0°37'05	
morning rise	-7776 Aug 02 j 23:17	28°♉34'10		
	-7776 Aug 27 j 13:42	0°♊		
retrograde	-7776 Nov 01 j 21:44	1°♊55'18		
	-7775 Jan 12 j 17:23	30°℞♉		
opposition	-7775 Jan 15 j 04:28	29°♉53'42	0°42'58	
min. Earth dist.	-7775 Jan 15 j 19:07	29°♉52'09	17.38943 AU	
direct	-7775 Apr 02 j 11:36	27°♉48'07		
	-7775 Jun 15 j 02:27	0°♊		
evening set	-7775 Jul 07 j 02:51	1°♊17'22		
max. Earth dist.	-7775 Jul 22 j 11:19	2°♊15'15	19.40749 AU	
conjunction	-7775 Jul 23 j 01:35	2°♊17'31	0°40'22	
minimum elong	-7775 Jul 23 j 01:35	2°♊17'31	0°40'48	
morning rise	-7775 Aug 07 j 20:33	3°♊17'08		
retrograde	-7775 Nov 06 j 20:12	6°♊38'00		
opposition	-7774 Jan 20 j 07:41	4°♊36'32	0°46'57	
min. Earth dist.	-7774 Jan 20 j 20:05	4°♊35'13	17.42743 AU	
direct	-7774 Apr 07 j 15:54	2°♊31'17		
evening set	-7774 Jul 12 j 01:56	5°♊59'43		
conjunction	-7774 Jul 27 j 23:17	6°♊59'35	0°43'47	
minimum elong	-7774 Jul 27 j 23:16	6°♊59'35	0°44'14	
max. Earth dist.	-7774 Jul 27 j 10:41	6°♊57'36	19.44847 AU	
morning rise	-7774 Aug 12 j 17:23	7°♊58'58		
retrograde	-7774 Nov 11 j 18:41	11°♊19'33		
opposition	-7773 Jan 25 j 10:34	9°♊18'12	0°50'35	
min. Earth dist.	-7773 Jan 25 j 20:26	9°♊17'10	17.47123 AU	
direct	-7773 Apr 12 j 18:36	7°♊13'19		
evening set	-7773 Jul 16 j 23:56	10°♊40'53		
conjunction	-7773 Aug 01 j 20:17	11°♊40'28	0°46'54	
minimum elong	-7773 Aug 01 j 20:17	11°♊40'28	0°47'23	
max. Earth dist.	-7773 Aug 01 j 11:16	11°♊39'03	19.49486 AU	
morning rise	-7773 Aug 17 j 13:22	12°♊39'37		
retrograde	-7773 Nov 16 j 16:58	15°♊59'51		
opposition	-7772 Jan 30 j 13:14	13°♊58'41	0°53'53	
min. Earth dist.	-7772 Jan 30 j 20:32	13°♊57'55	17.51986 AU	
direct	-7772 Apr 16 j 21:46	11°♊54'12		
evening set	-7772 Jul 20 j 21:22	15°♊20'49		
conjunction	-7772 Aug 05 j 16:27	16°♊20'06	0°49'42	
minimum elong	-7772 Aug 05 j 16:26	16°♊20'06	0°50'11	
max. Earth dist.	-7772 Aug 05 j 09:14	16°♊18'58	19.54570 AU	
morning rise	-7772 Aug 21 j 08:44	17°♊18'59		
retrograde	-7772 Nov 20 j 14:30	20°♊38'53		
opposition	-7771 Feb 03 j 15:36	18°♊37'52	0°56'48	
min. Earth dist.	-7771 Feb 03 j 20:50	18°♊37'19	17.57278 AU	
direct	-7771 Apr 21 j 22:55	16°♊33'48		
evening set	-7771 Jul 25 j 17:51	19°♊59'24		
conjunction	-7771 Aug 10 j 11:58	20°♊58'23	0°52'09	
minimum elong	-7771 Aug 10 j 11:58	20°♊58'23	0°52'41	
max. Earth dist.	-7771 Aug 10 j 07:56	20°♊57'45	19.60045 AU	
morning rise	-7771 Aug 26 j 03:24	21°♊57'00		
retrograde	-7771 Nov 25 j 12:40	25°♊16'31		
opposition	-7770 Feb 08 j 17:41	23°♊15'40	0°59'20	
min. Earth dist.	-7770 Feb 08 j 20:00	23°♊15'25	17.62906 AU	
direct	-7770 Apr 27 j 01:10	21°♊12'01		
evening set	-7770 Jul 30 j 13:28	24°♊36'30		
conjunction	-7770 Aug 15 j 06:31	25°♊35'11	0°54'16	
minimum elong	-7770 Aug 15 j 06:31	25°♊35'11	0°54'46	
max. Earth dist.	-7770 Aug 15 j 04:30	25°♊34'52	19.65815 AU	
morning rise	-7770 Aug 30 j 21:20	26°♊33'33		
retrograde	-7770 Nov 30 j 09:05	29°♊52'38		
opposition	-7769 Feb 13 j 19:20	27°♊51'55	1°01'27	
min. Earth dist.	-7769 Feb 13 j 20:02	27°♊51'50	17.68812 AU	
direct	-7769 May 02 j 00:39	25°♊48'42		
evening set	-7769 Aug 04 j 08:13	29°♊12'00		
	-7769 Aug 17 j 06:08	0°♋		
conjunction	-7769 Aug 20 j 00:27	0°♋10'23	0°56'00	
minimum elong	-7769 Aug 20 j 00:26	0°♋10'23	0°56'31	
max. Earth dist.	-7769 Aug 20 j 01:03	0°♋10'28	19.71827 AU	
morning rise	-7769 Sep 04 j 14:37	1°♋08'28		
retrograde	-7769 Dec 05 j 06:51	4°♋27'04		
opposition	-7768 Feb 18 j 20:10	2°♋26'29	1°03'11	
min. Earth dist.	-7768 Feb 18 j 17:53	2°♋26'43	17.74906 AU	
direct	-7768 May 06 j 02:01	0°♋23'40		
evening set	-7768 Aug 08 j 02:07	3°♋45'45		
conjunction	-7768 Aug 23 j 17:30	4°♋43'49	0°57'23	
minimum elong	-7768 Aug 23 j 17:30	4°♋43'49	0°57'54	
max. Earth dist.	-7768 Aug 23 j 20:13	4°♋44'15	19.77998 AU	
morning rise	-7768 Sep 08 j 07:11	5°♋41'39		
retrograde	-7768 Dec 09 j 01:23	8°♋59'45		
opposition	-7767 Feb 22 j 20:44	6°♋59'15	1°04'29	
min. Earth dist.	-7767 Feb 22 j 17:07	6°♋59'38	17.81154 AU	
direct	-7767 May 11 j 00:24	4°♋56'50		
evening set	-7767 Aug 12 j 18:52	8°♋17'37		
conjunction	-7767 Aug 28 j 09:34	9°♋15'23	0°58'23	
minimum elong	-7767 Aug 28 j 09:34	9°♋15'23	0°58'54	
max. Earth dist.	-7767 Aug 28 j 14:34	9°♋16'10	19.84308 AU	
morning rise	-7767 Sep 12 j 22:51	10°♋12'57		
retrograde	-7767 Dec 13 j 22:09	13°♋30'31		
opposition	-7766 Feb 27 j 20:28	11°♋30'05	1°05'22	
min. Earth dist.	-7766 Feb 27 j 13:38	11°♋30'47	17.87509 AU	
direct	-7766 May 16 j 00:51	9°♋28'02		
evening set	-7766 Aug 17 j 10:44	12°♋47'29		
conjunction	-7766 Sep 02 j 00:50	13°♋44'57	0°59'02	
minimum elong	-7766 Sep 02 j 00:50	13°♋44'57	0°59'34	
max. Earth dist.	-7766 Sep 02 j 08:17	13°♋46'06	19.90709 AU	
morning rise	-7766 Sep 17 j 13:50	14°♋42'16		
retrograde	-7766 Dec 18 j 14:38	17°♋59'16		
opposition	-7765 Mar 04 j 19:28	15°♋58'52	1°05'51	
min. Earth dist.	-7765 Mar 04 j 11:30	15°♋59'41	17.93967 AU	
direct	-7765 May 20 j 21:46	13°♋57'10		
evening set	-7765 Aug 22 j 01:32	17°♋15'15		
conjunction	-7765 Sep 06 j 15:08	18°♋12'26	0°59'18	
minimum elong	-7765 Sep 06 j 15:08	18°♋12'26	0°59'49	
max. Earth dist.	-7765 Sep 07 j 00:35	18°♋13'53	19.97217 AU	
morning rise	-7765 Sep 22 j 03:59	19°♋09'29		
retrograde	-7765 Dec 23 j 09:23	22°♋25'54		
opposition	-7764 Mar 08 j 17:34	20°♋25'31	1°05'57	
min. Earth dist.	-7764 Mar 08 j 06:17	20°♋26'41	18.00516 AU	
direct	-7764 May 24 j 20:43	18°♋24'10		
evening set	-7764 Aug 25 j 15:18	21°♋40'53		
conjunction	-7764 Sep 10 j 04:29	22°♋37'46	0°59'14	
minimum elong	-7764 Sep 10 j 04:29	22°♋37'46	0°59'44	
max. Earth dist.	-7764 Sep 10 j 16:45	22°♋39'39	20.03808 AU	
morning rise	-7764 Sep 25 j 17:10	23°♋34'35		

Attention, astronomical year style is used: The year -7764 in astronomical counting style is the year 7765 BCE in historical counting style.

retrograde	-7764 Dec 27 j 00:06	26°♋50'25		
opposition	-7763 Mar 13 j 15:04	24°♋50'04	1°05'38	
min. Earth dist.	-7763 Mar 13 j 02:31	24°♋51'21	18.07169 AU	
direct	-7763 May 29 j 15:51	22°♋49'04		
evening set	-7763 Aug 30 j 04:15	26°♋04'24		
conjunction	-7763 Sep 14 j 17:03	27°♋01'00	0°58'48	
minimum elong	-7763 Sep 14 j 17:03	27°♋01'00	0°59'18	
max. Earth dist.	-7763 Sep 15 j 07:12	27°♋03'10	20.10522 AU	
morning rise	-7763 Sep 30 j 05:47	27°♋57'35		
	-7763 Nov 07 j 21:12	0°♌		
retrograde	-7763 Dec 31 j 17:18	1°♌12'50		
	-7762 Feb 26 j 13:48	30°℞♋		
opposition	-7762 Mar 18 j 11:34	29°♋12'31	1°04'58	
min. Earth dist.	-7762 Mar 17 j 19:38	29°♋14'09	18.13941 AU	
direct	-7762 Jun 03 j 12:00	27°♋11'53		
	-7762 Aug 27 j 07:36	0°♌		
evening set	-7762 Sep 03 j 16:11	0°♌25'52		
conjunction	-7762 Sep 19 j 04:50	1°♌22'13	0°58'03	
minimum elong	-7762 Sep 19 j 04:50	1°♌22'13	0°58'31	
max. Earth dist.	-7762 Sep 19 j 21:56	1°♌24'49	20.17336 AU	
morning rise	-7762 Oct 04 j 17:35	2°♌18'35		
retrograde	-7761 Jan 05 j 06:57	5°♌33'15		
opposition	-7761 Mar 23 j 07:23	3°♌33'00	1°03'55	
min. Earth dist.	-7761 Mar 22 j 14:13	3°♌34'45	18.20804 AU	
direct	-7761 Jun 08 j 05:07	1°♌32'45		
evening set	-7761 Sep 08 j 03:26	4°♌45'26		
conjunction	-7761 Sep 23 j 15:53	5°♌41'30	0°56'59	
minimum elong	-7761 Sep 23 j 15:53	5°♌41'30	0°57'26	
max. Earth dist.	-7761 Sep 24 j 10:26	5°♌44'19	20.24236 AU	
morning rise	-7761 Oct 09 j 04:53	6°♌37'40		
retrograde	-7760 Jan 09 j 22:45	9°♌51'45		
min. Earth dist.	-7760 Mar 26 j 05:55	7°♌53'40	18.27725 AU	
opposition	-7760 Mar 27 j 02:06	7°♌51'37	1°02'31	
direct	-7760 Jun 11 j 22:14	5°♌51'46		
evening set	-7760 Sep 11 j 13:51	9°♌03'10		
conjunction	-7760 Sep 27 j 02:19	9°♌59'00	0°55'36	
minimum elong	-7760 Sep 27 j 02:19	9°♌59'00	0°56'01	
max. Earth dist.	-7760 Sep 27 j 23:43	10°♌02'14	20.31159 AU	
morning rise	-7760 Oct 12 j 15:29	10°♌54'57		
retrograde	-7759 Jan 13 j 11:55	14°♌08'30		
opposition	-7759 Mar 31 j 20:22	12°♌08'29	1°00'47	
min. Earth dist.	-7759 Mar 30 j 23:07	12°♌10'38	18.34644 AU	
direct	-7759 Jun 16 j 13:32	10°♌09'03		
evening set	-7759 Sep 15 j 23:31	13°♌19'11		
conjunction	-7759 Oct 01 j 11:57	14°♌14'47	0°53'54	
minimum elong	-7759 Oct 01 j 11:58	14°♌14'47	0°54'20	
max. Earth dist.	-7759 Oct 02 j 10:27	14°♌18'10	20.38060 AU	
	-7759 Oct 14 j 01:56	15°♌		
morning rise	-7759 Oct 17 j 01:36	15°♌10'33		
retrograde	-7758 Jan 18 j 02:48	18°♌23'36		
opposition	-7758 Apr 05 j 13:44	16°♌23'41	0°58'44	
min. Earth dist.	-7758 Apr 04 j 13:57	16°♌26'05	18.41503 AU	
	-7758 May 13 j 18:20	15°℞♌		
direct	-7758 Jun 21 j 04:30	14°♌24'39		
	-7758 Jul 28 j 07:30	15°♌		
evening set	-7758 Sep 20 j 08:37	17°♌33'34		
conjunction	-7758 Oct 05 j 21:17	18°♌28'58	0°51'56	
minimum elong	-7758 Oct 05 j 21:18	18°♌28'58	0°52'19	
max. Earth dist.	-7758 Oct 06 j 22:17	18°♌32'42	20.44846 AU	
morning rise	-7758 Oct 21 j 11:15	19°♌24'34		
retrograde	-7757 Jan 22 j 15:11	22°♌37'04		
min. Earth dist.	-7757 Apr 09 j 05:48	20°♌39'44	18.48211 AU	
opposition	-7757 Apr 10 j 06:13	20°♌37'16	0°56'22	
direct	-7757 Jun 25 j 18:11	18°♌38'39		
evening set	-7757 Sep 24 j 17:13	21°♌46'23		
conjunction	-7757 Oct 10 j 05:59	22°♌41'35	0°49'41	
minimum elong	-7757 Oct 10 j 06:00	22°♌41'35	0°50'03	
max. Earth dist.	-7757 Oct 11 j 07:27	22°♌45'23	20.51458 AU	
morning rise	-7757 Oct 25 j 20:33	23°♌37'01		
retrograde	-7756 Jan 27 j 05:08	26°♌49'02		
opposition	-7756 Apr 13 j 22:01	24°♌49'20	0°53'42	
min. Earth dist.	-7756 Apr 12 j 19:41	24°♌51'59	18.54709 AU	
direct	-7756 Jun 29 j 07:33	22°♌51'04		
evening set	-7756 Sep 28 j 01:05	25°♌57'40		
conjunction	-7756 Oct 13 j 14:14	26°♌52'41	0°47'11	
minimum elong	-7756 Oct 13 j 14:14	26°♌52'41	0°47'31	
max. Earth dist.	-7756 Oct 14 j 17:51	26°♌56'47	20.57809 AU	
morning rise	-7756 Oct 29 j 05:12	27°♌47'59		
	-7756 Dec 12 j 06:13	0°♍		
retrograde	-7755 Jan 30 j 16:31	0°♍59'30		
	-7755 Mar 23 j 10:19	30°℞♌		
min. Earth dist.	-7755 Apr 17 j 10:24	29°♌02'35	18.60911 AU	
opposition	-7755 Apr 18 j 13:11	28°♌59'53	0°50'46	
direct	-7755 Jul 03 j 19:45	27°♌01'58		
	-7755 Sep 30 j 04:43	0°♍		
evening set	-7755 Oct 02 j 08:39	0°♍07'28		
conjunction	-7755 Oct 17 j 22:03	1°♍02'18	0°44'26	
minimum elong	-7755 Oct 17 j 22:03	1°♍02'18	0°44'45	
max. Earth dist.	-7755 Oct 19 j 01:40	1°♍06'23	20.63852 AU	
morning rise	-7755 Nov 02 j 13:48	1°♍57'28		
retrograde	-7754 Feb 04 j 05:22	5°♍08'31		
min. Earth dist.	-7754 Apr 21 j 23:21	3°♍11'46	18.66784 AU	
opposition	-7754 Apr 23 j 03:25	3°♍08'57	0°47'35	
direct	-7754 Jul 08 j 07:46	1°♍11'19		
evening set	-7754 Oct 06 j 15:33	4°♍15'45		
conjunction	-7754 Oct 22 j 05:32	5°♍10'27	0°41'29	
minimum elong	-7754 Oct 22 j 05:33	5°♍10'27	0°41'46	
max. Earth dist.	-7754 Oct 23 j 10:57	5°♍14'47	20.69527 AU	
morning rise	-7754 Nov 06 j 21:52	6°♍05'30		
retrograde	-7753 Feb 08 j 15:49	9°♍16'03		
opposition	-7753 Apr 27 j 16:56	7°♍16'31	0°44'11	
min. Earth dist.	-7753 Apr 26 j 12:38	7°♍19'22	18.72261 AU	
direct	-7753 Jul 12 j 18:25	5°♍19'09		
evening set	-7753 Oct 10 j 22:02	8°♍22'34		
conjunction	-7753 Oct 26 j 12:25	9°♍17'08	0°38'20	
minimum elong	-7753 Oct 26 j 12:25	9°♍17'08	0°38'34	
max. Earth dist.	-7753 Oct 27 j 17:30	9°♍21'24	20.74813 AU	
morning rise	-7753 Nov 11 j 05:37	10°♍12'04		
retrograde	-7752 Feb 13 j 03:04	13°♍22'10		
min. Earth dist.	-7752 Apr 30 j 00:23	11°♍25'33	18.77357 AU	
opposition	-7752 May 01 j 05:34	11°♍22'37	0°40'34	
direct	-7752 Jul 16 j 04:57	9°♍25'27		
evening set	-7752 Oct 14 j 03:54	12°♍27'55		
conjunction	-7752 Oct 29 j 18:59	13°♍22'21	0°35'00	
minimum elong	-7752 Oct 29 j 18:59	13°♍22'21	0°35'13	
max. Earth dist.	-7752 Oct 31 j 01:50	13°♍26'52	20.79718 AU	
morning rise	-7752 Nov 14 j 12:52	14°♍17'13		
retrograde	-7751 Feb 16 j 12:48	17°♍26'51		
opposition	-7751 May 05 j 17:29	15°♍27'17	0°36'47	
min. Earth dist.	-7751 May 04 j 12:01	15°♍30'14	18.82080 AU	
direct	-7751 Jul 20 j 14:33	13°♍30'18		
evening set	-7751 Oct 18 j 09:24	16°♍31'51		

Attention, astronomical year style is used: The year -7751 in astronomical counting style is the year 7752 BCE in historical counting style.

conjunction	-7751 Nov 03 j 01:00	17°♍26'11	0°31'31
minimum elong	-7751 Nov 03 j 01:01	17°♍26'11	0°31'41
max. Earth dist.	-7751 Nov 04 j 07:33	17°♍30'38	20.84277 AU
morning rise	-7751 Nov 18 j 19:55	18°♍20'58	
retrograde	-7750 Feb 20 j 22:54	21°♍30'11	
min. Earth dist.	-7750 May 08 j 22:33	19°♍33'35	18.86479 AU
opposition	-7750 May 10 j 04:38	19°♍30'34	0°32'51
direct	-7750 Jul 24 j 23:08	17°♍33'45	
evening set	-7750 Oct 22 j 14:31	20°♍34'28	
conjunction	-7750 Nov 07 j 06:56	21°♍28'43	0°27'55
minimum elong	-7750 Nov 07 j 06:56	21°♍28'43	0°28'02
max. Earth dist.	-7750 Nov 08 j 15:08	21°♍33'24	20.88507 AU
morning rise	-7750 Nov 23 j 02:35	22°♍23'26	
retrograde	-7749 Feb 25 j 07:55	25°♍32'15	
min. Earth dist.	-7749 May 13 j 08:29	23°♍35'40	18.90557 AU
opposition	-7749 May 14 j 14:51	23°♍32'38	0°28'46
direct	-7749 Jul 29 j 07:48	21°♍35'59	
evening set	-7749 Oct 26 j 19:25	24°♍35'56	
conjunction	-7749 Nov 11 j 12:26	25°♍30'07	0°24'11
minimum elong	-7749 Nov 11 j 12:26	25°♍30'07	0°24'17
max. Earth dist.	-7749 Nov 12 j 20:04	25°♍34'41	20.92444 AU
morning rise	-7749 Nov 27 j 09:09	26°♍24'48	
retrograde	-7748 Feb 29 j 17:15	29°♍33'16	
min. Earth dist.	-7748 May 16 j 17:52	27°♍36'42	18.94354 AU
opposition	-7748 May 18 j 00:38	27°♍33'37	0°24'34
direct	-7748 Aug 01 j 14:25	25°♍37'08	
evening set	-7748 Oct 29 j 23:49	28°♍36'24	
conjunction	-7748 Nov 14 j 17:46	29°♍30'32	0°20'21
minimum elong	-7748 Nov 14 j 17:46	29°♍30'32	0°20'25
max. Earth dist.	-7748 Nov 16 j 02:56	29°♍35'19	20.96084 AU
	-7748 Nov 23 j 06:08	0°♎	
morning rise	-7748 Nov 30 j 15:17	0°♎25'12	
retrograde	-7747 Mar 05 j 01:48	3°♎33'22	
min. Earth dist.	-7747 May 21 j 02:47	1°♎36'51	18.97838 AU
opposition	-7747 May 22 j 09:49	1°♎33'44	0°20'16
	-7747 Jul 06 j 14:59	30°℞♍	
direct	-7747 Aug 05 j 22:18	29°♍37'25	
	-7747 Sep 04 j 13:43	0°♎	
evening set	-7747 Nov 03 j 04:20	2°♎36'05	
conjunction	-7747 Nov 18 j 23:00	3°♎30'11	0°16'26
minimum elong	-7747 Nov 18 j 23:01	3°♎30'11	0°16'29
max. Earth dist.	-7747 Nov 20 j 07:18	3°♎34'50	20.99419 AU
morning rise	-7747 Dec 04 j 21:41	4°♎24'50	
retrograde	-7746 Mar 09 j 10:54	7°♎32'45	
min. Earth dist.	-7746 May 25 j 11:27	5°♎36'14	19.01011 AU
opposition	-7746 May 26 j 18:22	5°♎33'08	0°15'53
direct	-7746 Aug 10 j 03:39	3°♎36'57	
evening set	-7746 Nov 07 j 08:40	6°♎35'08	
conjunction	-7746 Nov 23 j 04:22	7°♎29'13	0°12'27
minimum elong	-7746 Nov 23 j 04:22	7°♎29'13	0°12'26
behind sun begin	-7746 Nov 23 j 00:02	7°♎28'37	
behind sun end	-7746 Nov 23 j 08:42	7°♎29'49	
max. Earth dist.	-7746 Nov 24 j 13:44	7°♎34'00	21.02409 AU
morning rise	-7746 Dec 09 j 03:55	8°♎23'52	
retrograde	-7745 Mar 13 j 18:50	11°♎31'33	
min. Earth dist.	-7745 May 29 j 19:36	9°♎35'05	19.03807 AU
opposition	-7745 May 31 j 02:26	9°♎31'59	0°11'26
direct	-7745 Aug 14 j 10:35	7°♎35'58	
evening set	-7745 Nov 11 j 13:03	10°♎33'42	
conjunction	-7745 Nov 27 j 09:29	11°♎27'47	0°08'25
minimum elong	-7745 Nov 27 j 09:29	11°♎27'47	0°08'23
behind sun begin	-7745 Nov 27 j 03:40	11°♎26'58	
behind sun end	-7745 Nov 27 j 15:17	11°♎28'36	
max. Earth dist.	-7745 Nov 28 j 17:35	11°♎32'23	21.05013 AU
morning rise	-7745 Dec 13 j 10:11	12°♎22'27	
retrograde	-7744 Mar 17 j 03:59	15°♎29'58	
min. Earth dist.	-7744 Jun 02 j 03:57	13°♎33'28	19.06206 AU
opposition	-7744 Jun 03 j 10:11	13°♎30'26	0°06'56
direct	-7744 Aug 17 j 15:20	11°♎34'32	
evening set	-7744 Nov 14 j 17:28	14°♎31'55	
conjunction	-7744 Nov 30 j 14:59	15°♎26'02	0°04'22
minimum elong	-7744 Nov 30 j 14:59	15°♎26'02	0°04'16
behind sun begin	-7744 Nov 30 j 08:29	15°♎25'07	
behind sun end	-7744 Nov 30 j 21:29	15°♎26'56	
max. Earth dist.	-7744 Dec 01 j 23:47	15°♎30'43	21.07185 AU
morning rise	-7744 Dec 16 j 16:34	16°♎20'44	
retrograde	-7743 Mar 21 j 11:15	19°♎28'06	
min. Earth dist.	-7743 Jun 06 j 11:41	17°♎31'35	19.08137 AU
opposition	-7743 Jun 07 j 17:27	17°♎28'36	0°02'24
direct	-7743 Aug 21 j 21:17	15°♎32'48	
evening set	-7743 Nov 18 j 22:11	18°♎29'54	
conjunction	-7743 Dec 04 j 20:31	19°♎24'02	0°00'12
minimum elong	-7743 Dec 04 j 20:32	19°♎24'02	0°00'05
behind sun begin	-7743 Dec 04 j 14:22	19°♎23'11	
behind sun end	-7743 Dec 05 j 02:42	19°♎24'53	
max. Earth dist.	-7743 Dec 06 j 03:31	19°♎28'27	21.08874 AU
morning rise	-7743 Dec 20 j 23:20	20°♎18'47	
desc. node	-7743 Dec 22 j 04:16	20°♎22'48	
retrograde	-7742 Mar 25 j 20:16	23°♎26'03	
min. Earth dist.	-7742 Jun 10 j 19:57	21°♎29'25	19.09565 AU
opposition	-7742 Jun 12 j 00:29	21°♎26'33	-0°02'08
direct	-7742 Aug 26 j 01:50	19°♎30'48	
evening set	-7742 Nov 23 j 03:01	22°♎27'42	
conjunction	-7742 Dec 09 j 02:31	23°♎21'54	-0°03'59
minimum elong	-7742 Dec 09 j 02:30	23°♎21'54	0°04'08
behind sun begin	-7742 Dec 08 j 19:58	23°♎21'00	
behind sun end	-7742 Dec 09 j 09:01	23°♎22'48	
max. Earth dist.	-7742 Dec 10 j 09:34	23°♎26'20	21.10017 AU
morning rise	-7742 Dec 25 j 06:09	24°♎16'42	
retrograde	-7741 Mar 30 j 03:21	27°♎23'51	
min. Earth dist.	-7741 Jun 15 j 03:19	25°♎27'09	19.10416 AU
opposition	-7741 Jun 16 j 07:01	25°♎24'22	-0°06'39
direct	-7741 Aug 30 j 07:10	23°♎28'37	
evening set	-7741 Nov 27 j 08:08	26°♎25'22	
conjunction	-7741 Dec 13 j 08:28	27°♎19'38	-0°08'03
minimum elong	-7741 Dec 13 j 08:28	27°♎19'37	0°08'14
behind sun begin	-7741 Dec 13 j 02:36	27°♎18'49	
behind sun end	-7741 Dec 13 j 14:20	27°♎20'26	
max. Earth dist.	-7741 Dec 14 j 13:16	27°♎23'43	21.10588 AU
morning rise	-7741 Dec 29 j 13:21	28°♎14'30	
	-7740 Feb 02 j 15:48	0°♏	
retrograde	-7740 Apr 02 j 11:32	1°♏21'36	
	-7740 Jun 03 j 14:03	30°℞♎	
min. Earth dist.	-7740 Jun 18 j 11:22	29°♎24'41	19.10698 AU
opposition	-7740 Jun 19 j 13:31	29°♎22'03	-0°11'08
direct	-7740 Sep 02 j 11:34	27°♎26'14	
	-7740 Nov 23 j 13:28	0°♏	
evening set	-7740 Nov 30 j 13:10	0°♏22'55	
conjunction	-7740 Dec 16 j 14:43	1°♏17'16	-0°12'04
minimum elong	-7740 Dec 16 j 14:43	1°♏17'16	0°12'16
behind sun begin	-7740 Dec 16 j 10:18	1°♏16'39	
behind sun end	-7740 Dec 16 j 19:07	1°♏17'52	
max. Earth dist.	-7740 Dec 17 j 19:25	1°♏21'20	21.10579 AU

Attention, astronomical year style is used: The year -7739 in astronomical counting style is the year 7740 BCE in historical counting style.

morning rise	-7739 Jan 01 j 20:30	2°♏12'13	
retrograde	-7739 Apr 06 j 19:10	5°♏19'16	
opposition	-7739 Jun 23 j 19:38	3°♏19'38	-0°15'34
min. Earth dist.	-7739 Jun 22 j 18:25	3°♏22'11	19.10396 AU
direct	-7739 Sep 06 j 16:51	1°♏23'44	
evening set	-7739 Dec 04 j 18:44	4°♏20'23	
conjunction	-7739 Dec 20 j 21:11	5°♏14'49	-0°16'02
minimum elong	-7739 Dec 20 j 21:11	5°♏14'49	0°16'17
max. Earth dist.	-7739 Dec 21 j 23:24	5°♏18'33	21.10014 AU
morning rise	-7738 Jan 06 j 04:12	6°♏09'53	
retrograde	-7738 Apr 11 j 02:34	9°♏16'54	
min. Earth dist.	-7738 Jun 27 j 02:03	7°♏19'32	19.09571 AU
opposition	-7738 Jun 28 j 01:26	7°♏17'10	-0°19'55
direct	-7738 Sep 10 j 20:54	5°♏21'07	
evening set	-7738 Dec 09 j 00:23	8°♏17'51	
conjunction	-7738 Dec 25 j 04:02	9°♏12'24	-0°19'55
minimum elong	-7738 Dec 25 j 04:01	9°♏12'24	0°20'11
max. Earth dist.	-7738 Dec 26 j 06:02	9°♏16'05	21.08939 AU
morning rise	-7737 Jan 10 j 11:53	10°♏07'34	
retrograde	-7737 Apr 15 j 10:33	13°♏14'35	
min. Earth dist.	-7737 Jul 01 j 08:28	11°♏17'02	19.08256 AU
opposition	-7737 Jul 02 j 06:58	11°♏14'45	-0°24'10
direct	-7737 Sep 15 j 02:05	9°♏18'33	
evening set	-7737 Dec 13 j 06:18	12°♏15'24	
conjunction	-7737 Dec 29 j 10:50	13°♏10'05	-0°23'42
minimum elong	-7737 Dec 29 j 10:49	13°♏10'05	0°24'02
max. Earth dist.	-7737 Dec 30 j 10:24	13°♏13'26	21.07412 AU
morning rise	-7736 Jan 14 j 19:51	14°♏05'23	
	-7736 Jan 31 j 22:19	15°♏	
retrograde	-7736 Apr 18 j 17:51	17°♏12'28	
opposition	-7736 Jul 05 j 12:31	15°♏12'31	-0°28'18
min. Earth dist.	-7736 Jul 04 j 15:47	15°♏14'37	19.06528 AU
	-7736 Jul 10 j 15:53	15°℞♏	
direct	-7736 Sep 18 j 05:50	13°♏16'08	
	-7736 Nov 23 j 01:45	15°♏	
evening set	-7736 Dec 16 j 12:37	16°♏13'14	
conjunction	-7735 Jan 01 j 18:20	17°♏08'03	-0°27'23
minimum elong	-7735 Jan 01 j 18:20	17°♏08'03	0°27'43
max. Earth dist.	-7735 Jan 02 j 17:40	17°♏11'22	21.05484 AU
morning rise	-7735 Jan 18 j 04:11	18°♏03'29	
retrograde	-7735 Apr 23 j 02:09	21°♏10'40	
opposition	-7735 Jul 09 j 17:44	19°♏10'38	-0°32'19
min. Earth dist.	-7735 Jul 08 j 21:51	19°♏12'40	19.04410 AU
direct	-7735 Sep 22 j 10:57	17°♏14'05	
evening set	-7735 Dec 20 j 19:31	20°♏11'30	
conjunction	-7734 Jan 06 j 02:08	21°♏06'30	-0°30'57
minimum elong	-7734 Jan 06 j 02:08	21°♏06'29	0°31'19
max. Earth dist.	-7734 Jan 06 j 22:48	21°♏09'25	21.03193 AU
morning rise	-7734 Jan 22 j 13:07	22°♏02'04	
retrograde	-7734 Apr 27 j 10:09	25°♏09'25	
opposition	-7734 Jul 13 j 23:07	23°♏09'18	-0°36'11
min. Earth dist.	-7734 Jul 13 j 05:11	23°♏11'08	19.01945 AU
direct	-7734 Sep 26 j 14:39	21°♏12'33	
evening set	-7734 Dec 25 j 02:45	24°♏10'24	
conjunction	-7733 Jan 10 j 10:34	25°♏05'35	-0°34'23
minimum elong	-7733 Jan 10 j 10:33	25°♏05'34	0°34'46
max. Earth dist.	-7733 Jan 11 j 06:46	25°♏08'26	21.00551 AU
morning rise	-7733 Jan 26 j 22:16	26°♏01'19	
retrograde	-7733 May 01 j 18:55	29°♏08'51	
min. Earth dist.	-7733 Jul 17 j 11:22	27°♏10'27	18.99128 AU
opposition	-7733 Jul 18 j 04:24	27°♏08'42	-0°39'54
direct	-7733 Sep 30 j 19:53	25°♏11'47	
evening set	-7733 Dec 29 j 10:41	28°♏10'09	
conjunction	-7732 Jan 14 j 19:21	29°♏05'29	-0°37'39
minimum elong	-7732 Jan 14 j 19:21	29°♏05'29	0°38'03
max. Earth dist.	-7732 Jan 15 j 12:43	29°♏07'57	20.97576 AU
	-7732 Jan 30 j 21:58	0°♐	
morning rise	-7732 Jan 31 j 08:08	0°♐01'25	
retrograde	-7732 May 05 j 03:47	3°♐09'12	
opposition	-7732 Jul 21 j 09:57	1°♐09'01	-0°43'26
min. Earth dist.	-7732 Jul 20 j 19:06	1°♐10'33	18.95987 AU
	-7732 Aug 20 j 08:27	30°℞♏	
direct	-7732 Oct 03 j 23:45	29°♏11'55	
	-7732 Nov 16 j 14:29	0°♐	
evening set	-7731 Jan 01 j 19:05	2°♐10'52	
conjunction	-7731 Jan 18 j 04:57	3°♐06'26	-0°40'45
minimum elong	-7731 Jan 18 j 04:57	3°♐06'26	0°41'12
max. Earth dist.	-7731 Jan 18 j 21:39	3°♐08'48	20.94262 AU
morning rise	-7731 Feb 03 j 18:27	4°♐02'32	
retrograde	-7731 May 09 j 13:39	7°♐10'36	
opposition	-7731 Jul 25 j 15:37	5°♐10'25	-0°46'46
min. Earth dist.	-7731 Jul 25 j 01:55	5°♐11'50	18.92483 AU
direct	-7731 Oct 08 j 05:31	3°♐13'08	
evening set	-7730 Jan 06 j 04:31	6°♐12'45	
conjunction	-7730 Jan 22 j 15:12	7°♐08'31	-0°43'40
minimum elong	-7730 Jan 22 j 15:12	7°♐08'31	0°44'07
max. Earth dist.	-7730 Jan 23 j 04:39	7°♐10'26	20.90577 AU
morning rise	-7730 Feb 08 j 05:41	8°♐04'49	
retrograde	-7730 May 13 j 23:18	11°♐13'14	
opposition	-7730 Jul 29 j 21:30	9°♐13'02	-0°49'53
min. Earth dist.	-7730 Jul 29 j 10:29	9°♐14'10	18.88608 AU
direct	-7730 Oct 12 j 09:50	7°♐15'31	
evening set	-7729 Jan 10 j 14:32	10°♐15'54	
conjunction	-7729 Jan 27 j 02:20	11°♐11'54	-0°46'23
minimum elong	-7729 Jan 27 j 02:20	11°♐11'54	0°46'52
max. Earth dist.	-7729 Jan 27 j 14:40	11°♐13'40	20.86499 AU
morning rise	-7729 Feb 12 j 17:24	12°♐08'24	
retrograde	-7729 May 18 j 10:31	15°♐17'10	
opposition	-7729 Aug 03 j 03:41	13°♐16'56	-0°52'47
min. Earth dist.	-7729 Aug 02 j 18:05	13°♐17'56	18.84315 AU
direct	-7729 Oct 16 j 16:38	11°♐19'11	
evening set	-7728 Jan 15 j 01:21	14°♐20'22	
conjunction	-7728 Jan 31 j 13:54	15°♐16'37	-0°48'53
minimum elong	-7728 Jan 31 j 13:54	15°♐16'37	0°49'22
max. Earth dist.	-7728 Jan 31 j 22:40	15°♐17'52	20.81993 AU
morning rise	-7728 Feb 17 j 05:51	16°♐13'20	
retrograde	-7728 May 21 j 20:55	19°♐22'29	
opposition	-7728 Aug 06 j 10:23	17°♐22'12	-0°55'25
min. Earth dist.	-7728 Aug 06 j 03:43	17°♐22'53	18.79593 AU
direct	-7728 Oct 19 j 21:58	15°♐24'09	
evening set	-7727 Jan 18 j 12:58	18°♐26'12	
conjunction	-7727 Feb 04 j 02:37	19°♐22'41	-0°51'08
minimum elong	-7727 Feb 04 j 02:37	19°♐22'41	0°51'37
max. Earth dist.	-7727 Feb 04 j 09:51	19°♐23'43	20.77047 AU
morning rise	-7727 Feb 20 j 19:05	20°♐19'37	
retrograde	-7727 May 26 j 09:14	23°♐29'08	
opposition	-7727 Aug 10 j 17:10	21°♐28'47	-0°57'47
min. Earth dist.	-7727 Aug 10 j 12:06	21°♐29'19	18.74419 AU
direct	-7727 Oct 24 j 05:54	19°♐30'24	
evening set	-7726 Jan 23 j 01:35	22°♐33'21	
conjunction	-7726 Feb 08 j 15:56	23°♐30'06	-0°53'08

Attention, astronomical year style is used: The year -7726 in astronomical counting style is the year 7727 BCE in historical counting style.

minimum elong	-7726 Feb 08 j 15:56	23°♐30'06	0°53'39
max. Earth dist.	-7726 Feb 08 j 19:17	23°♐30'35	20.71662 AU
morning rise	-7726 Feb 25 j 09:10	24°♐27'16	
retrograde	-7726 May 30 j 20:25	27°♐37'11	
opposition	-7726 Aug 15 j 00:34	25°♐36'42	-0°59'52
min. Earth dist.	-7726 Aug 14 j 22:34	25°♐36'54	18.68832 AU
direct	-7726 Oct 28 j 12:53	23°♐37'55	
evening set	-7725 Jan 27 j 14:38	26°♐41'50	
conjunction	-7725 Feb 13 j 05:58	27°♐38'51	-0°54'52
minimum elong	-7725 Feb 13 j 05:58	27°♐38'51	0°55'22
max. Earth dist.	-7725 Feb 13 j 07:46	27°♐39'06	20.65885 AU
morning rise	-7725 Mar 01 j 23:35	28°♐36'14	
	-7725 Mar 28 j 13:27	0°♑	
retrograde	-7725 Jun 04 j 09:10	1°♑46'33	
	-7725 Aug 13 j 17:38	30°℞♐	
opposition	-7725 Aug 19 j 08:09	29°♐45'56	-1°01'39
min. Earth dist.	-7725 Aug 19 j 07:32	29°♐46'00	18.62877 AU
direct	-7725 Nov 01 j 21:35	27°♐46'45	
	-7724 Jan 16 j 08:18	0°♑	
evening set	-7724 Feb 01 j 04:41	0°♑51'39	
conjunction	-7724 Feb 17 j 20:37	1°♑48'56	-0°56'19
minimum elong	-7724 Feb 17 j 20:37	1°♑48'56	0°56'51
max. Earth dist.	-7724 Feb 17 j 18:47	1°♑48'40	20.59780 AU
morning rise	-7724 Mar 05 j 14:53	2°♑46'34	
retrograde	-7724 Jun 07 j 21:24	5°♑57'18	
opposition	-7724 Aug 22 j 16:14	3°♑56'31	-1°03'07
min. Earth dist.	-7724 Aug 22 j 18:36	3°♑56'16	18.56643 AU
direct	-7724 Nov 05 j 05:59	1°♑56'53	
evening set	-7723 Feb 04 j 19:20	5°♑02'51	
conjunction	-7723 Feb 21 j 12:12	6°♑00'25	-0°57'28
minimum elong	-7723 Feb 21 j 12:11	6°♑00'25	0°57'59
max. Earth dist.	-7723 Feb 21 j 08:51	5°♑59'56	20.53428 AU
morning rise	-7723 Mar 10 j 06:48	6°♑58'17	
retrograde	-7723 Jun 12 j 10:48	10°♑09'26	
opposition	-7723 Aug 27 j 00:41	8°♑08'31	-1°04'15
min. Earth dist.	-7723 Aug 27 j 04:14	8°♑08'08	18.50183 AU
direct	-7723 Nov 09 j 15:55	6°♑08'26	
evening set	-7722 Feb 09 j 11:02	9°♑15'31	
conjunction	-7722 Feb 26 j 04:23	10°♑13'21	-0°58'19
minimum elong	-7722 Feb 26 j 04:23	10°♑13'21	0°58'51
max. Earth dist.	-7722 Feb 25 j 21:38	10°♑12'22	20.46879 AU
morning rise	-7722 Mar 14 j 23:26	11°♑11'27	
retrograde	-7722 Jun 16 j 23:48	14°♑23'05	
opposition	-7722 Aug 31 j 09:43	12°♑22'00	-1°05'03
min. Earth dist.	-7722 Aug 31 j 16:09	12°♑21'19	18.43576 AU
direct	-7722 Nov 14 j 01:28	10°♑21'28	
evening set	-7721 Feb 14 j 03:20	13°♑29'43	
conjunction	-7721 Mar 02 j 21:25	14°♑27'51	-0°58'52
minimum elong	-7721 Mar 02 j 21:25	14°♑27'51	0°59'23
max. Earth dist.	-7721 Mar 02 j 13:14	14°♑26'39	20.40221 AU
morning rise	-7721 Mar 19 j 16:39	15°♑26'11	
retrograde	-7721 Jun 21 j 14:24	18°♑38'18	
opposition	-7721 Sep 04 j 19:17	16°♑37'06	-1°05'30
min. Earth dist.	-7721 Sep 05 j 02:37	16°♑36'19	18.36880 AU
direct	-7721 Nov 18 j 13:03	14°♑36'09	
evening set	-7720 Feb 18 j 20:30	17°♑45'36	
conjunction	-7720 Mar 06 j 15:01	18°♑44'01	-0°59'06
minimum elong	-7720 Mar 06 j 15:01	18°♑44'01	0°59'36
max. Earth dist.	-7720 Mar 06 j 03:49	18°♑42'23	20.33497 AU
morning rise	-7720 Mar 23 j 10:32	19°♑42'36	
retrograde	-7720 Jun 25 j 04:12	22°♑55'15	
opposition	-7720 Sep 08 j 05:37	20°♑53'56	-1°05'36
min. Earth dist.	-7720 Sep 08 j 15:43	20°♑52'52	18.30149 AU
direct	-7720 Nov 21 j 23:38	18°♑52'34	
evening set	-7719 Feb 22 j 14:37	22°♑03'18	
conjunction	-7719 Mar 11 j 09:43	23°♑02'00	-0°59'00
minimum elong	-7719 Mar 11 j 09:44	23°♑02'00	0°59'30
max. Earth dist.	-7719 Mar 10 j 20:58	23°♑00'08	20.26764 AU
morning rise	-7719 Mar 28 j 05:20	24°♑00'50	
retrograde	-7719 Jun 29 j 20:25	27°♑14'01	
opposition	-7719 Sep 12 j 16:23	25°♑12'38	-1°05'20
min. Earth dist.	-7719 Sep 13 j 03:22	25°♑11'28	18.23413 AU
direct	-7719 Nov 26 j 13:02	23°♑10'53	
evening set	-7718 Feb 27 j 09:51	26°♑22'56	
conjunction	-7718 Mar 16 j 05:15	27°♑21'56	-0°58'34
minimum elong	-7718 Mar 16 j 05:15	27°♑21'56	0°59'03
max. Earth dist.	-7718 Mar 15 j 13:44	27°♑19'39	20.20032 AU
morning rise	-7718 Apr 02 j 00:54	28°♑21'00	
	-7718 May 03 j 04:54	0°♒	
retrograde	-7718 Jul 04 j 11:28	1°♒34'46	
	-7718 Sep 06 j 17:12	30°℞♑	
opposition	-7718 Sep 17 j 04:10	29°♑33'21	-1°04'41
min. Earth dist.	-7718 Sep 17 j 17:57	29°♑31'52	18.16701 AU
direct	-7718 Dec 01 j 00:53	27°♑31'13	
	-7717 Feb 18 j 23:45	0°♒	
evening set	-7717 Mar 04 j 05:43	0°♒44'38	
max. Earth dist.	-7717 Mar 20 j 08:16	1°♒41'22	20.13338 AU
conjunction	-7717 Mar 21 j 01:29	1°♒43'55	-0°57'48
minimum elong	-7717 Mar 21 j 01:29	1°♒43'55	0°58'17
morning rise	-7717 Apr 06 j 21:06	2°♒43'13	
retrograde	-7717 Jul 09 j 05:20	5°♒57'35	
opposition	-7717 Sep 21 j 16:32	3°♒56'08	-1°03'39
min. Earth dist.	-7717 Sep 22 j 07:12	3°♒54'33	18.10016 AU
direct	-7717 Dec 05 j 16:20	1°♒53'40	
evening set	-7716 Mar 08 j 02:49	5°♒08'27	
conjunction	-7716 Mar 24 j 22:45	6°♒08'01	-0°56'41
minimum elong	-7716 Mar 24 j 22:46	6°♒08'01	0°57'08
max. Earth dist.	-7716 Mar 24 j 03:02	6°♒05'06	20.06656 AU
morning rise	-7716 Apr 10 j 18:13	7°♒07'34	
retrograde	-7716 Jul 12 j 21:32	10°♒22'31	
opposition	-7716 Sep 25 j 05:48	8°♒21'03	-1°02'15
min. Earth dist.	-7716 Sep 25 j 23:25	8°♒19'09	18.03350 AU
direct	-7716 Dec 09 j 05:51	6°♒18'13	
evening set	-7715 Mar 13 j 00:50	9°♒34'24	
conjunction	-7715 Mar 29 j 20:57	10°♒34'15	-0°55'13
minimum elong	-7715 Mar 29 j 20:57	10°♒34'15	0°55'38
max. Earth dist.	-7715 Mar 28 j 23:01	10°♒30'59	19.99996 AU
morning rise	-7715 Apr 15 j 16:15	11°♒34'01	
retrograde	-7715 Jul 17 j 16:57	14°♒49'34	
opposition	-7715 Sep 29 j 19:54	12°♒48'04	-1°00'26
min. Earth dist.	-7715 Sep 30 j 14:27	12°♒46'04	17.96691 AU
direct	-7715 Dec 13 j 23:51	10°♒44'52	
evening set	-7714 Mar 17 j 23:45	14°♒02'26	
conjunction	-7714 Apr 03 j 19:54	15°♒02'33	-0°53'24
minimum elong	-7714 Apr 03 j 19:54	15°♒02'33	0°53'48
max. Earth dist.	-7714 Apr 02 j 19:48	14°♒58'56	19.93328 AU
	-7714 Apr 03 j 02:52	15°♒	
morning rise	-7714 Apr 20 j 14:46	16°♒02'32	
retrograde	-7714 Jul 22 j 10:07	19°♒18'39	
opposition	-7714 Oct 04 j 10:59	17°♒17'06	-0°58'15
min. Earth dist.	-7714 Oct 05 j 08:19	17°♒14'48	17.90043 AU
direct	-7714 Dec 18 j 15:43	15°♒13'31	

Attention, astronomical year style is used: The year -7713 in astronomical counting style is the year 7714 BCE in historical counting style.

evening set	-7713 Mar 22 j 23:27	18°♒32'27	
conjunction	-7713 Apr 08 j 19:30	19°♒32'48	-0°51'14
minimum elong	-7713 Apr 08 j 19:30	19°♒32'48	0°51'37
max. Earth dist.	-7713 Apr 07 j 17:01	19°♒28'49	19.86707 AU
morning rise	-7713 Apr 25 j 14:05	20°♒32'59	
retrograde	-7713 Jul 27 j 06:27	23°♒49'40	
opposition	-7713 Oct 09 j 02:42	21°♒48'02	-0°55'41
min. Earth dist.	-7713 Oct 10 j 00:50	21°♒45'39	17.83454 AU
direct	-7713 Dec 23 j 11:36	19°♒44'04	
evening set	-7712 Mar 26 j 23:47	23°♒04'18	
conjunction	-7712 Apr 12 j 19:48	24°♒04'55	-0°48'45
minimum elong	-7712 Apr 12 j 19:48	24°♒04'55	0°49'06
max. Earth dist.	-7712 Apr 11 j 15:52	24°♒00'41	19.80154 AU
morning rise	-7712 Apr 29 j 13:48	25°♒05'17	
retrograde	-7712 Jul 31 j 01:11	28°♒22'29	
opposition	-7712 Oct 12 j 19:25	26°♒20'46	-0°52'45
min. Earth dist.	-7712 Oct 13 j 19:56	26°♒18'07	17.76965 AU
direct	-7712 Dec 27 j 05:49	24°♒16'24	
evening set	-7711 Apr 01 j 00:58	27°♒37'55	
conjunction	-7711 Apr 17 j 20:39	28°♒38'44	-0°45'56
minimum elong	-7711 Apr 17 j 20:39	28°♒38'44	0°46'15
max. Earth dist.	-7711 Apr 16 j 14:22	28°♒34'09	19.73751 AU
morning rise	-7711 May 04 j 14:13	29°♒39'18	
	-7711 May 10 j 11:18	0°♓	
retrograde	-7711 Aug 04 j 22:14	2°♓57'00	
opposition	-7711 Oct 17 j 12:42	0°♓55'11	-0°49'28
min. Earth dist.	-7711 Oct 18 j 13:51	0°♓52'27	17.70660 AU
	-7711 Nov 08 j 10:15	30°♓℞♒	
direct	-7710 Jan 01 j 03:02	28°♒50'24	
	-7710 Feb 22 j 13:20	0°♓	
evening set	-7710 Apr 06 j 02:39	2°♓13'10	
conjunction	-7710 Apr 22 j 22:06	3°♓14'12	-0°42'49
minimum elong	-7710 Apr 22 j 22:07	3°♓14'12	0°43'06
max. Earth dist.	-7710 Apr 21 j 15:17	3°♓09'30	19.67557 AU
morning rise	-7710 May 09 j 14:51	4°♓14'54	
retrograde	-7710 Aug 09 j 18:36	7°♓33'05	
opposition	-7710 Oct 22 j 07:01	5°♓31'10	-0°45'51
min. Earth dist.	-7710 Oct 23 j 09:54	5°♓28'14	17.64610 AU
direct	-7709 Jan 05 j 22:49	3°♓26'01	
evening set	-7709 Apr 11 j 04:45	6°♓49'56	
conjunction	-7709 Apr 27 j 23:37	7°♓51'09	-0°39'25
minimum elong	-7709 Apr 27 j 23:38	7°♓51'09	0°39'40
max. Earth dist.	-7709 Apr 26 j 14:50	7°♓46'08	19.61672 AU
morning rise	-7709 May 14 j 15:49	8°♓52'01	
retrograde	-7709 Aug 14 j 16:32	12°♓10'39	
opposition	-7709 Oct 27 j 01:57	10°♓08'38	-0°41'56
min. Earth dist.	-7709 Oct 28 j 05:08	10°♓05'40	17.58909 AU
direct	-7708 Jan 10 j 21:06	8°♓03'07	
evening set	-7708 Apr 15 j 07:22	11°♓28'10	
max. Earth dist.	-7708 Apr 30 j 17:22	12°♓24'34	19.56157 AU
conjunction	-7708 May 02 j 01:52	12°♓29'34	-0°35'44
minimum elong	-7708 May 02 j 01:52	12°♓29'34	0°35'56
morning rise	-7708 May 18 j 17:04	13°♓30'32	
retrograde	-7708 Aug 18 j 14:08	16°♓49'35	
opposition	-7708 Oct 30 j 21:40	14°♓47'30	-0°37'43
min. Earth dist.	-7708 Nov 01 j 01:57	14°♓44'25	17.53608 AU
direct	-7707 Jan 14 j 18:20	12°♓41'40	
evening set	-7707 Apr 20 j 10:38	16°♓07'48	
max. Earth dist.	-7707 May 05 j 18:09	17°♓04'03	19.51090 AU
conjunction	-7707 May 07 j 04:18	17°♓09'20	-0°31'49
minimum elong	-7707 May 07 j 04:19	17°♓09'20	0°32'00
morning rise	-7707 May 23 j 18:45	18°♓10'24	
retrograde	-7707 Aug 23 j 12:31	21°♓29'53	
opposition	-7707 Nov 04 j 18:16	19°♓27'44	-0°33'13
min. Earth dist.	-7707 Nov 05 j 22:39	19°♓24'37	17.48794 AU
direct	-7706 Jan 19 j 17:56	17°♓21'37	
evening set	-7706 Apr 25 j 13:59	20°♓48'46	
max. Earth dist.	-7706 May 10 j 21:53	21°♓45'15	19.46527 AU
conjunction	-7706 May 12 j 07:03	21°♓50'24	-0°27'40
minimum elong	-7706 May 12 j 07:03	21°♓50'24	0°27'48
morning rise	-7706 May 28 j 20:20	22°♓51'33	
retrograde	-7706 Aug 28 j 11:01	26°♓11'26	
opposition	-7706 Nov 09 j 15:43	24°♓09'16	-0°28'29
min. Earth dist.	-7706 Nov 10 j 20:21	24°♓06'08	17.44495 AU
direct	-7705 Jan 24 j 17:01	22°♓02'58	
evening set	-7705 Apr 30 j 17:52	25°♓31'01	
max. Earth dist.	-7705 May 15 j 23:38	26°♓27'25	19.42510 AU
conjunction	-7705 May 17 j 09:57	26°♓32'45	-0°23'19
minimum elong	-7705 May 17 j 09:57	26°♓32'45	0°23'25
morning rise	-7705 Jun 02 j 22:20	27°♓33'57	
	-7705 Jul 19 j 20:21	0°♈	
retrograde	-7705 Sep 02 j 09:40	0°♈54'13	
	-7705 Oct 18 j 02:10	30°℞♓	
opposition	-7705 Nov 14 j 13:44	28°♓52'03	-0°23'32
min. Earth dist.	-7705 Nov 15 j 18:30	28°♓48'55	17.40764 AU
direct	-7704 Jan 29 j 18:07	26°♓45'37	
	-7704 Apr 30 j 21:37	0°♈	
evening set	-7704 May 04 j 21:53	0°♈14'32	
max. Earth dist.	-7704 May 20 j 04:07	1°♈11'10	19.39054 AU
conjunction	-7704 May 21 j 13:13	1°♈16'20	-0°18'48
minimum elong	-7704 May 21 j 13:13	1°♈16'20	0°18'51
morning rise	-7704 Jun 07 j 00:25	2°♈17'34	
retrograde	-7704 Sep 06 j 08:59	5°♈38'11	
opposition	-7704 Nov 18 j 12:41	3°♈36'04	-0°18'24
min. Earth dist.	-7704 Nov 19 j 17:12	3°♈32'57	17.37568 AU
direct	-7703 Feb 02 j 19:36	1°♈29'33	
evening set	-7703 May 10 j 02:20	4°♈59'14	
max. Earth dist.	-7703 May 25 j 06:44	5°♈55'46	19.36127 AU
conjunction	-7703 May 26 j 16:30	6°♈01'03	-0°14'07
minimum elong	-7703 May 26 j 16:31	6°♈01'04	0°14'07
behind sun begin	-7703 May 26 j 13:19	6°♈00'34	
behind sun end	-7703 May 26 j 19:42	6°♈01'33	
morning rise	-7703 Jun 12 j 02:35	7°♈02'18	
retrograde	-7703 Sep 11 j 08:02	10°♈23'14	
opposition	-7703 Nov 23 j 12:22	8°♈21'11	-0°13'07
min. Earth dist.	-7703 Nov 24 j 17:10	8°♈18'03	17.34910 AU
direct	-7702 Feb 07 j 21:57	6°♈14'36	
evening set	-7702 May 15 j 06:49	9°♈44'57	
max. Earth dist.	-7702 May 30 j 11:25	10°♈41'41	19.33724 AU
conjunction	-7702 May 31 j 19:58	10°♈46'47	-0°09'20
minimum elong	-7702 May 31 j 19:58	10°♈46'47	0°09'18
behind sun begin	-7702 May 31 j 14:20	10°♈45'55	
behind sun end	-7702 Jun 01 j 01:36	10°♈47'39	
morning rise	-7702 Jun 17 j 04:47	11°♈48'01	
retrograde	-7702 Sep 16 j 08:31	15°♈09'13	
opposition	-7702 Nov 28 j 12:48	13°♈07'14	-0°07'43
min. Earth dist.	-7702 Nov 29 j 16:46	13°♈04'11	17.32748 AU
direct	-7701 Feb 13 j 01:29	11°♈00'38	
evening set	-7701 May 20 j 11:19	14°♈31'30	
conjunction	-7701 Jun 05 j 23:15	15°♈33'19	-0°04'29
minimum elong	-7701 Jun 05 j 23:16	15°♈33'19	0°04'24

Attention, astronomical year style is used: The year -7701 in astronomical counting style is the year 7702 BCE in historical counting style.

behind sun begin	-7701 Jun 05 j 16:40	15°♈32'18		
behind sun end	-7701 Jun 06 j 05:52	15°♈34'19		
max. Earth dist.	-7701 Jun 04 j 14:42	15°♈28'12	19.31802 AU	
morning rise	-7701 Jun 22 j 06:51	16°♈34'30		
retrograde	-7701 Sep 21 j 07:54	19°♈55'57		
opposition	-7701 Dec 03 j 13:54	17°♈54'01	-0°02'15	
min. Earth dist.	-7701 Dec 04 j 18:14	17°♈50'56	17.31071 AU	
direct	-7700 Feb 18 j 04:29	15°♈47'23		
asc. node	-7700 May 02 j 04:49	18°♈00'08		
evening set	-7700 May 24 j 15:52	19°♈18'41		
max. Earth dist.	-7700 Jun 08 j 19:02	20°♈15'27	19.30359 AU	
conjunction	-7700 Jun 10 j 02:38	20°♈20'26	0°00'31	
minimum elong	-7700 Jun 10 j 02:36	20°♈20'26	0°00'39	
behind sun begin	-7700 Jun 09 j 19:55	20°♈19'24		
behind sun end	-7700 Jun 10 j 09:17	20°♈21'27		
morning rise	-7700 Jun 26 j 08:55	21°♈21'34		
retrograde	-7700 Sep 25 j 09:09	24°♈43'09		
opposition	-7700 Dec 07 j 15:24	22°♈41'16	0°03'15	
min. Earth dist.	-7700 Dec 08 j 18:23	22°♈38'21	17.29849 AU	
direct	-7699 Feb 22 j 09:32	20°♈34'39		
evening set	-7699 May 29 j 20:18	24°♈06'13		
max. Earth dist.	-7699 Jun 13 j 23:00	25°♈03'02	19.29372 AU	
conjunction	-7699 Jun 15 j 05:46	25°♈07'54	0°05'29	
minimum elong	-7699 Jun 15 j 05:46	25°♈07'54	0°05'38	
behind sun begin	-7699 Jun 14 j 23:20	25°♈06'54		
behind sun end	-7699 Jun 15 j 12:12	25°♈08'53		
morning rise	-7699 Jul 01 j 10:41	26°♈08'56		
retrograde	-7699 Sep 30 j 08:28	29°♈30'38		
opposition	-7699 Dec 12 j 17:38	27°♈28'48	0°08'44	
min. Earth dist.	-7699 Dec 13 j 20:47	27°♈25'51	17.29108 AU	
direct	-7698 Feb 27 j 12:42	25°♈22'12		
evening set	-7698 Jun 04 j 00:16	28°♈53'54		
max. Earth dist.	-7698 Jun 19 j 02:37	29°♈50'45	19.28880 AU	
conjunction	-7698 Jun 20 j 08:22	29°♈55'28	0°10'20	
minimum elong	-7698 Jun 20 j 08:22	29°♈55'28	0°10'33	
behind sun begin	-7698 Jun 20 j 03:10	29°♈54'39		
behind sun end	-7698 Jun 20 j 13:33	29°♈56'16		
	-7698 Jun 21 j 13:02	0°♉		
morning rise	-7698 Jul 06 j 12:05	0°♉56'24		
retrograde	-7698 Oct 05 j 10:18	4°♉18'09		
opposition	-7698 Dec 17 j 20:03	2°♉16'20	0°14'08	
min. Earth dist.	-7698 Dec 18 j 21:13	2°♉13'37	17.28856 AU	
direct	-7697 Mar 04 j 18:34	0°♉09'46		
evening set	-7697 Jun 09 j 03:53	3°♉41'28		
max. Earth dist.	-7697 Jun 24 j 06:48	4°♉38'29	19.28884 AU	
conjunction	-7697 Jun 25 j 10:45	4°♉42'54	0°15'08	
minimum elong	-7697 Jun 25 j 10:44	4°♉42'54	0°15'22	
behind sun begin	-7697 Jun 25 j 08:45	4°♉42'36		
behind sun end	-7697 Jun 25 j 12:43	4°♉43'13		
morning rise	-7697 Jul 11 j 13:03	5°♉43'43		
retrograde	-7697 Oct 10 j 09:12	9°♉05'27		
opposition	-7697 Dec 22 j 22:43	7°♉03'40	0°19'26	
min. Earth dist.	-7697 Dec 23 j 23:45	7°♉00'57	17.29126 AU	
direct	-7696 Mar 08 j 21:31	4°♉57'09		
evening set	-7696 Jun 13 j 07:05	8°♉28'44		
max. Earth dist.	-7696 Jun 28 j 09:34	9°♉25'44	19.29435 AU	
conjunction	-7696 Jun 29 j 12:30	9°♉30'01	0°19'48	
minimum elong	-7696 Jun 29 j 12:29	9°♉30'00	0°20'05	
morning rise	-7696 Jul 15 j 13:39	10°♉30'39		
retrograde	-7696 Oct 14 j 10:55	13°♉52'21		
opposition	-7696 Dec 27 j 01:36	11°♉50'33	0°24'36	
min. Earth dist.	-7696 Dec 28 j 00:09	11°♉48'07	17.29949 AU	
direct	-7695 Mar 14 j 03:22	9°♉44'08		
evening set	-7695 Jun 18 j 09:30	13°♉15'28		
conjunction	-7695 Jul 04 j 13:40	14°♉16'33	0°24'20	
minimum elong	-7695 Jul 04 j 13:39	14°♉16'33	0°24'40	
max. Earth dist.	-7695 Jul 03 j 13:34	14°♉12'44	19.30545 AU	
	-7695 Jul 16 j 00:14	15°♉		
morning rise	-7695 Jul 20 j 13:23	15°♉17'02		
retrograde	-7695 Oct 19 j 09:37	18°♉38'37		
opposition	-7694 Jan 01 j 04:49	16°♉36'51	0°29'34	
min. Earth dist.	-7694 Jan 02 j 02:33	16°♉34'31	17.31359 AU	
	-7694 Feb 13 j 01:21	15°℞♉		
direct	-7694 Mar 19 j 06:31	14°♉30'34		
	-7694 Apr 21 j 22:50	15°♉		
evening set	-7694 Jun 23 j 11:27	18°♉01'31		
conjunction	-7694 Jul 09 j 14:05	19°♉02'24	0°28'42	
minimum elong	-7694 Jul 09 j 14:04	19°♉02'24	0°29'02	
max. Earth dist.	-7694 Jul 08 j 15:16	18°♉58'47	19.32271 AU	
morning rise	-7694 Jul 25 j 12:44	20°♉02'41		
retrograde	-7694 Oct 24 j 10:32	23°♉24'08		
opposition	-7693 Jan 06 j 07:51	21°♉22'24	0°34'20	
min. Earth dist.	-7693 Jan 07 j 02:41	21°♉20'22	17.33400 AU	
direct	-7693 Mar 24 j 12:23	19°♉16'17		
evening set	-7693 Jun 28 j 12:29	22°♉46'46		
conjunction	-7693 Jul 14 j 13:57	23°♉47'25	0°32'51	
minimum elong	-7693 Jul 14 j 13:57	23°♉47'25	0°33'15	
max. Earth dist.	-7693 Jul 13 j 18:36	23°♉44'21	19.34624 AU	
morning rise	-7693 Jul 30 j 11:15	24°♉47'29		
retrograde	-7693 Oct 29 j 08:33	28°♉08'45		
opposition	-7692 Jan 11 j 11:03	26°♉07'06	0°38'50	
min. Earth dist.	-7692 Jan 12 j 04:28	26°♉05'14	17.36064 AU	
direct	-7692 Mar 28 j 15:59	24°♉01'14		
evening set	-7692 Jul 02 j 13:03	27°♉31'08		
conjunction	-7692 Jul 18 j 13:00	28°♉31'32	0°36'46	
minimum elong	-7692 Jul 18 j 13:00	28°♉31'32	0°37'10	
max. Earth dist.	-7692 Jul 17 j 19:03	28°♉28'42	19.37610 AU	
morning rise	-7692 Aug 03 j 09:18	29°♉31'23		
	-7692 Aug 11 j 04:52	0°♊		
retrograde	-7692 Nov 02 j 08:18	2°♊52'27		
opposition	-7691 Jan 15 j 14:04	0°♊50'54	0°43'04	
min. Earth dist.	-7691 Jan 16 j 04:32	0°♊49'21	17.39357 AU	
	-7691 Feb 05 j 02:06	30°℞♉		
direct	-7691 Apr 02 j 21:13	28°♉45'20		
	-7691 May 27 j 04:39	0°♊		
evening set	-7691 Jul 07 j 12:43	2°♊14'33		
conjunction	-7691 Jul 23 j 11:34	3°♊14'42	0°40'26	
minimum elong	-7691 Jul 23 j 11:33	3°♊14'42	0°40'52	
max. Earth dist.	-7691 Jul 22 j 21:19	3°♊12'27	19.41205 AU	
morning rise	-7691 Aug 08 j 06:37	4°♊14'19		
retrograde	-7691 Nov 07 j 06:10	7°♊35'08		
opposition	-7690 Jan 20 j 17:10	5°♊33'43	0°47'00	
min. Earth dist.	-7690 Jan 21 j 05:42	5°♊32'24	17.43228 AU	
direct	-7690 Apr 08 j 00:55	3°♊28'32		
evening set	-7690 Jul 12 j 11:38	6°♊56'58		
conjunction	-7690 Jul 28 j 09:05	7°♊56'50	0°43'49	
minimum elong	-7690 Jul 28 j 09:05	7°♊56'50	0°44'17	
max. Earth dist.	-7690 Jul 27 j 20:25	7°♊54'50	19.45354 AU	
morning rise	-7690 Aug 13 j 03:18	8°♊56'14		
retrograde	-7690 Nov 12 j 04:43	12°♊16'46		
opposition	-7689 Jan 25 j 19:59	10°♊15'30	0°50'36	
min. Earth dist.	-7689 Jan 26 j 05:54	10°♊14'27	17.47631 AU	
direct	-7689 Apr 13 j 04:09	8°♊10'40		

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

evening set	-7689 Jul 17 j 09:45	11°♊38'16	
conjunction	-7689 Aug 02 j 06:11	12°♊37'51	0°46'54
minimum elong	-7689 Aug 02 j 06:11	12°♊37'51	0°47'22
max. Earth dist.	-7689 Aug 01 j 21:03	12°♊36'25	19.49986 AU
morning rise	-7689 Aug 17 j 23:19	13°♊36'59	
retrograde	-7689 Nov 17 j 02:32	16°♊57'12	
opposition	-7688 Jan 30 j 22:29	14°♊56'06	0°53'51
min. Earth dist.	-7688 Jan 31 j 06:14	14°♊55'17	17.52466 AU
direct	-7688 Apr 17 j 07:06	12°♊51'40	
evening set	-7688 Jul 21 j 07:15	16°♊18'19	
conjunction	-7688 Aug 06 j 02:23	17°♊17'36	0°49'40
minimum elong	-7688 Aug 06 j 02:23	17°♊17'36	0°50'10
max. Earth dist.	-7688 Aug 05 j 18:49	17°♊16'25	19.55019 AU
morning rise	-7688 Aug 21 j 18:45	18°♊16'29	
retrograde	-7688 Nov 21 j 00:20	21°♊36'21	
opposition	-7687 Feb 04 j 00:53	19°♊35'24	0°56'44
min. Earth dist.	-7687 Feb 04 j 06:27	19°♊34'49	17.57683 AU
direct	-7687 Apr 22 j 08:18	17°♊31'21	
evening set	-7687 Jul 26 j 03:38	20°♊56'58	
conjunction	-7687 Aug 10 j 21:50	21°♊55'57	0°52'05
minimum elong	-7687 Aug 10 j 21:50	21°♊55'57	0°52'35
max. Earth dist.	-7687 Aug 10 j 17:33	21°♊55'17	19.60393 AU
morning rise	-7687 Aug 26 j 13:18	22°♊54'34	
retrograde	-7687 Nov 25 j 22:00	26°♊14'01	
opposition	-7686 Feb 09 j 02:57	24°♊13'12	0°59'13
min. Earth dist.	-7686 Feb 09 j 05:53	24°♊12'54	17.63192 AU
direct	-7686 Apr 27 j 10:28	22°♊09'34	
evening set	-7686 Jul 30 j 23:23	25°♊34'03	
conjunction	-7686 Aug 15 j 16:30	26°♊32'44	0°54'09
minimum elong	-7686 Aug 15 j 16:30	26°♊32'44	0°54'40
max. Earth dist.	-7686 Aug 15 j 13:55	26°♊32'20	19.66029 AU
morning rise	-7686 Aug 31 j 07:22	27°♊31'05	
	-7686 Oct 18 j 11:20	0°♋	
retrograde	-7686 Nov 30 j 18:49	0°♋50'06	
	-7685 Jan 15 j 00:59	30°℞♊	
opposition	-7685 Feb 14 j 04:24	28°♊49'23	1°01'19
min. Earth dist.	-7685 Feb 14 j 05:37	28°♊49'15	17.68953 AU
direct	-7685 May 02 j 10:23	26°♊46'07	
	-7685 Aug 02 j 04:02	0°♋	
evening set	-7685 Aug 04 j 18:05	0°♋09'25	
conjunction	-7685 Aug 20 j 10:25	1°♋07'48	0°55'52
minimum elong	-7685 Aug 20 j 10:25	1°♋07'48	0°56'23
max. Earth dist.	-7685 Aug 20 j 10:36	1°♋07'49	19.71890 AU
morning rise	-7685 Sep 05 j 00:38	2°♋05'53	
retrograde	-7685 Dec 05 j 15:29	5°♋24'24	
opposition	-7684 Feb 19 j 05:20	3°♋23'46	1°03'00
min. Earth dist.	-7684 Feb 19 j 03:39	3°♋23'57	17.74893 AU
direct	-7684 May 06 j 11:38	1°♋20'53	
evening set	-7684 Aug 08 j 11:52	4°♋42'55	
conjunction	-7684 Aug 24 j 03:19	5°♋41'00	0°57'12
minimum elong	-7684 Aug 24 j 03:19	5°♋41'00	0°57'43
max. Earth dist.	-7684 Aug 24 j 05:27	5°♋41'20	19.77911 AU
morning rise	-7684 Sep 08 j 17:03	6°♋38'50	
retrograde	-7684 Dec 09 j 10:51	9°♋56'50	
opposition	-7683 Feb 23 j 05:49	7°♋56'15	1°04'16
min. Earth dist.	-7683 Feb 23 j 02:36	7°♋56'35	17.81002 AU
direct	-7683 May 11 j 10:26	5°♋53'43	
evening set	-7683 Aug 13 j 04:37	9°♋14'28	
conjunction	-7683 Aug 28 j 19:25	10°♋12'14	0°58'10
minimum elong	-7683 Aug 28 j 19:25	10°♋12'14	0°58'43
max. Earth dist.	-7683 Aug 29 j 00:09	10°♋12'58	19.84103 AU
morning rise	-7683 Sep 13 j 08:45	11°♋09'48	
retrograde	-7683 Dec 14 j 06:05	14°♋27'14	
opposition	-7682 Feb 28 j 05:26	12°♋26'42	1°05'07
min. Earth dist.	-7682 Feb 27 j 22:59	12°♋27'22	17.87263 AU
direct	-7682 May 16 j 10:27	10°♋24'32	
evening set	-7682 Aug 17 j 20:17	13°♋43'55	
conjunction	-7682 Sep 02 j 10:29	14°♋41'23	0°58'47
minimum elong	-7682 Sep 02 j 10:29	14°♋41'23	0°59'18
max. Earth dist.	-7682 Sep 02 j 17:35	14°♋42'29	19.90437 AU
morning rise	-7682 Sep 17 j 23:33	15°♋38'42	
retrograde	-7682 Dec 18 j 23:31	18°♋55'34	
opposition	-7681 Mar 05 j 04:25	16°♋55'04	1°05'35
min. Earth dist.	-7681 Mar 04 j 20:34	16°♋55'52	17.93684 AU
direct	-7681 May 21 j 07:38	14°♋53'14	
evening set	-7681 Aug 22 j 11:02	18°♋11'16	
conjunction	-7681 Sep 07 j 00:41	19°♋08'26	0°59'02
minimum elong	-7681 Sep 07 j 00:41	19°♋08'26	0°59'33
max. Earth dist.	-7681 Sep 07 j 10:10	19°♋09'54	19.96939 AU
morning rise	-7681 Sep 22 j 13:32	20°♋05'29	
retrograde	-7681 Dec 23 j 17:28	23°♋21'47	
opposition	-7680 Mar 09 j 02:21	21°♋21'19	1°05'38
min. Earth dist.	-7680 Mar 08 j 15:04	21°♋22'29	18.00263 AU
direct	-7680 May 25 j 05:34	19°♋19'51	
evening set	-7680 Aug 26 j 00:51	22°♋36'32	
conjunction	-7680 Sep 10 j 14:03	23°♋33'25	0°58'56
minimum elong	-7680 Sep 10 j 14:03	23°♋33'25	0°59'26
max. Earth dist.	-7680 Sep 11 j 02:14	23°♋35'17	20.03598 AU
morning rise	-7680 Sep 26 j 02:45	24°♋30'13	
retrograde	-7680 Dec 27 j 09:08	27°♋45'57	
opposition	-7679 Mar 13 j 23:50	25°♋45'32	1°05'19
min. Earth dist.	-7679 Mar 13 j 11:08	25°♋46'50	18.07016 AU
direct	-7679 May 30 j 00:59	23°♋44'27	
evening set	-7679 Aug 30 j 13:39	26°♋59'47	
conjunction	-7679 Sep 15 j 02:30	27°♋56'23	0°58'30
minimum elong	-7679 Sep 15 j 02:31	27°♋56'24	0°58'59
max. Earth dist.	-7679 Sep 15 j 16:50	27°♋58'35	20.10432 AU
morning rise	-7679 Sep 30 j 15:14	28°♋52'58	
	-7679 Oct 20 j 06:19	0°♌	
retrograde	-7678 Jan 01 j 02:17	2°♌08'08	
opposition	-7678 Mar 18 j 20:19	0°♌07'49	1°04'37
min. Earth dist.	-7678 Mar 18 j 04:10	0°♌09'28	18.13916 AU
	-7678 Mar 22 j 00:54	30°℞♋	
direct	-7678 Jun 03 j 20:40	28°♋07'08	
	-7678 Aug 10 j 19:51	0°♌	
evening set	-7678 Sep 04 j 01:42	1°♌21'09	
conjunction	-7678 Sep 19 j 14:22	2°♌17'30	0°57'44
minimum elong	-7678 Sep 19 j 14:22	2°♌17'30	0°58'12
max. Earth dist.	-7678 Sep 20 j 07:23	2°♌20'05	20.17382 AU
morning rise	-7678 Oct 05 j 03:08	3°♌13'51	
retrograde	-7677 Jan 05 j 16:30	6°♌28'28	
opposition	-7677 Mar 23 j 15:58	4°♌28'16	1°03'33
min. Earth dist.	-7677 Mar 22 j 22:44	4°♌30'01	18.20916 AU
direct	-7677 Jun 08 j 13:48	2°♌28'01	
evening set	-7677 Sep 08 j 12:58	5°♌40'45	
conjunction	-7677 Sep 24 j 01:27	6°♌36'50	0°56'38
minimum elong	-7677 Sep 24 j 01:27	6°♌36'50	0°57'05
max. Earth dist.	-7677 Sep 24 j 20:05	6°♌39'40	20.24414 AU
morning rise	-7677 Oct 09 j 14:26	7°♌32'59	
retrograde	-7676 Jan 10 j 08:41	10°♌47'03	
opposition	-7676 Mar 27 j 10:51	8°♌46'59	1°02'08

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

min. Earth dist.	-7676 Mar 26 j 14:34	8°♌49'02	18.27953 AU
direct	-7676 Jun 12 j 07:21	6°♌47'11	
evening set	-7676 Sep 11 j 23:21	9°♌58'38	
conjunction	-7676 Sep 27 j 11:48	10°♌54'29	0°55'14
minimum elong	-7676 Sep 27 j 11:49	10°♌54'29	0°55'40
max. Earth dist.	-7676 Sep 28 j 09:05	10°♌57'42	20.31432 AU
morning rise	-7676 Oct 13 j 00:58	11°♌50'26	
	-7675 Jan 01 j 09:58	15°♌	
retrograde	-7675 Jan 13 j 21:33	15°♌04'00	
	-7675 Jan 26 j 13:44	15°℞♌	
min. Earth dist.	-7675 Mar 31 j 08:04	13°♌06'12	18.34947 AU
opposition	-7675 Apr 01 j 05:11	13°♌04'04	1°00'23
direct	-7675 Jun 16 j 22:34	11°♌04'42	
evening set	-7675 Sep 16 j 09:12	14°♌14'55	
	-7675 Sep 28 j 23:42	15°♌	
conjunction	-7675 Oct 01 j 21:39	15°♌10'32	0°53'31
minimum elong	-7675 Oct 01 j 21:39	15°♌10'32	0°53'56
max. Earth dist.	-7675 Oct 02 j 20:02	15°♌13'54	20.38384 AU
morning rise	-7675 Oct 17 j 11:14	16°♌06'18	
retrograde	-7674 Jan 18 j 12:52	19°♌19'21	
opposition	-7674 Apr 05 j 22:29	17°♌19'32	0°58'18
min. Earth dist.	-7674 Apr 04 j 22:55	17°♌21'55	18.41834 AU
direct	-7674 Jun 21 j 13:51	15°♌20'35	
evening set	-7674 Sep 20 j 18:22	18°♌29'36	
conjunction	-7674 Oct 06 j 07:00	19°♌25'01	0°51'32
minimum elong	-7674 Oct 06 j 07:01	19°♌25'01	0°51'55
max. Earth dist.	-7674 Oct 07 j 07:39	19°♌28'42	20.45169 AU
morning rise	-7674 Oct 21 j 20:56	20°♌20'36	
retrograde	-7673 Jan 23 j 00:36	23°♌33'08	
opposition	-7673 Apr 10 j 15:10	21°♌33'27	0°55'54
min. Earth dist.	-7673 Apr 09 j 15:11	21°♌35'52	18.48514 AU
direct	-7673 Jun 26 j 03:27	19°♌34'54	
evening set	-7673 Sep 25 j 02:59	22°♌42'44	
conjunction	-7673 Oct 10 j 15:43	23°♌37'56	0°49'16
minimum elong	-7673 Oct 10 j 15:43	23°♌37'56	0°49'37
max. Earth dist.	-7673 Oct 11 j 16:53	23°♌41'41	20.51725 AU
morning rise	-7673 Oct 26 j 06:11	24°♌33'22	
retrograde	-7672 Jan 27 j 14:36	27°♌45'24	
min. Earth dist.	-7672 Apr 13 j 05:02	25°♌48'25	18.54931 AU
opposition	-7672 Apr 14 j 06:59	25°♌45'49	0°53'14
direct	-7672 Jun 29 j 16:41	23°♌47'36	
evening set	-7672 Sep 28 j 11:01	26°♌54'18	
conjunction	-7672 Oct 14 j 00:07	27°♌49'19	0°46'45
minimum elong	-7672 Oct 14 j 00:08	27°♌49'19	0°47'05
max. Earth dist.	-7672 Oct 15 j 03:14	27°♌53'21	20.57977 AU
morning rise	-7672 Oct 29 j 15:03	28°♌44'37	
	-7672 Nov 21 j 14:30	0°♍	
retrograde	-7671 Jan 31 j 01:43	1°♍56'09	
	-7671 Apr 17 j 12:28	30°℞♌	
opposition	-7671 Apr 18 j 22:11	29°♌56'37	0°50'17
min. Earth dist.	-7671 Apr 17 j 20:01	29°♌59'15	18.61018 AU
direct	-7671 Jul 04 j 05:15	27°♌58'44	
	-7671 Sep 13 j 07:21	0°♍	
evening set	-7671 Oct 02 j 18:29	1°♍04'18	
conjunction	-7671 Oct 18 j 07:53	1°♍59'09	0°44'00
minimum elong	-7671 Oct 18 j 07:54	1°♍59'09	0°44'18
max. Earth dist.	-7671 Oct 19 j 11:05	2°♍03'11	20.63893 AU
morning rise	-7671 Nov 02 j 23:35	2°♍54'19	
retrograde	-7670 Feb 04 j 14:34	6°♍05'22	
min. Earth dist.	-7670 Apr 22 j 08:50	4°♍08'37	18.66753 AU
opposition	-7670 Apr 23 j 12:28	4°♍05'51	0°47'06
direct	-7670 Jul 08 j 16:33	2°♍08'13	
evening set	-7670 Oct 07 j 01:25	5°♍12'43	
conjunction	-7670 Oct 22 j 15:22	6°♍07'25	0°41'03
minimum elong	-7670 Oct 22 j 15:22	6°♍07'25	0°41'18
max. Earth dist.	-7670 Oct 23 j 20:15	6°♍11'40	20.69433 AU
morning rise	-7670 Nov 07 j 07:38	7°♍02'28	
retrograde	-7669 Feb 09 j 00:29	10°♍13'00	
min. Earth dist.	-7669 Apr 26 j 22:07	8°♍16'16	18.72108 AU
opposition	-7669 Apr 28 j 01:51	8°♍13'29	0°43'42
direct	-7669 Jul 13 j 04:10	6°♍16'06	
evening set	-7669 Oct 11 j 07:50	9°♍19'33	
conjunction	-7669 Oct 26 j 22:12	10°♍14'07	0°37'54
minimum elong	-7669 Oct 26 j 22:12	10°♍14'07	0°38'08
max. Earth dist.	-7669 Oct 28 j 02:59	10°♍18'20	20.74621 AU
morning rise	-7669 Nov 11 j 15:21	11°♍09'03	
retrograde	-7668 Feb 13 j 12:23	14°♍19'07	
min. Earth dist.	-7668 Apr 30 j 09:35	12°♍22'28	18.77129 AU
opposition	-7668 May 01 j 14:33	12°♍19'34	0°40'05
direct	-7668 Jul 16 j 14:04	10°♍22'21	
evening set	-7668 Oct 14 j 13:33	13°♍24'50	
conjunction	-7668 Oct 30 j 04:35	14°♍19'17	0°34'34
minimum elong	-7668 Oct 30 j 04:35	14°♍19'17	0°34'45
max. Earth dist.	-7668 Oct 31 j 11:12	14°♍23'45	20.79472 AU
morning rise	-7668 Nov 14 j 22:25	15°♍14'08	
retrograde	-7667 Feb 16 j 21:16	18°♍23'45	
min. Earth dist.	-7667 May 04 j 21:18	16°♍27'05	18.81827 AU
opposition	-7667 May 06 j 02:32	16°♍24'09	0°36'19
direct	-7667 Jul 21 j 00:10	14°♍27'08	
evening set	-7667 Oct 18 j 19:07	17°♍28'42	
conjunction	-7667 Nov 03 j 10:40	18°♍23'02	0°31'06
minimum elong	-7667 Nov 03 j 10:40	18°♍23'02	0°31'16
max. Earth dist.	-7667 Nov 04 j 17:05	18°♍27'28	20.84029 AU
morning rise	-7667 Nov 19 j 05:29	19°♍17'48	
retrograde	-7666 Feb 21 j 08:17	22°♍27'00	
min. Earth dist.	-7666 May 09 j 07:24	20°♍30'23	18.86250 AU
opposition	-7666 May 10 j 13:33	20°♍27'22	0°32'23
direct	-7666 Jul 25 j 08:52	18°♍30'30	
evening set	-7666 Oct 23 j 00:12	21°♍31'15	
conjunction	-7666 Nov 07 j 16:34	22°♍25'30	0°27'29
minimum elong	-7666 Nov 07 j 16:34	22°♍25'30	0°27'37
max. Earth dist.	-7666 Nov 09 j 00:36	22°♍30'09	20.88300 AU
morning rise	-7666 Nov 23 j 12:08	23°♍20'13	
retrograde	-7665 Feb 25 j 16:31	26°♍29'01	
opposition	-7665 May 14 j 24:00	24°♍29'23	0°28'18
min. Earth dist.	-7665 May 13 j 17:39	24°♍32'26	18.90379 AU
direct	-7665 Jul 29 j 16:56	22°♍32'43	
evening set	-7665 Oct 27 j 05:00	25°♍32'42	
conjunction	-7665 Nov 11 j 21:58	26°♍26'52	0°23'46
minimum elong	-7665 Nov 11 j 21:58	26°♍26'52	0°23'51
max. Earth dist.	-7665 Nov 13 j 05:36	26°♍31'27	20.92293 AU
morning rise	-7665 Nov 27 j 18:34	27°♍21'33	
	-7664 Jan 25 j 17:21	0°♎	
retrograde	-7664 Mar 01 j 02:34	0°♎30'02	
	-7664 Apr 06 j 05:23	30°℞♍	
min. Earth dist.	-7664 May 17 j 02:53	28°♍33'30	18.94230 AU
opposition	-7664 May 18 j 09:52	28°♍30'24	0°24'06
direct	-7664 Aug 02 j 00:31	26°♍33'54	
evening set	-7664 Oct 30 j 09:35	29°♍33'13	
	-7664 Nov 07 j 05:41	0°♎	
conjunction	-7664 Nov 15 j 03:27	0°♎27'21	0°19'56

Attention, astronomical year style is used: The year -7664 in astronomical counting style is the year 7665 BCE in historical counting style.

minimum elong	-7664 Nov 15 j 03:27	0°♎27'21	0°20'00
max. Earth dist.	-7664 Nov 16 j 12:31	0°♎32'08	20.95984 AU
morning rise	-7664 Dec 01 j 00:53	1°♎22'00	
retrograde	-7663 Mar 05 j 10:44	4°♎30'11	
opposition	-7663 May 22 j 19:06	2°♎30'35	0°19'49
min. Earth dist.	-7663 May 21 j 12:10	2°♎33'41	18.97757 AU
direct	-7663 Aug 06 j 07:10	0°♎34'16	
evening set	-7663 Nov 03 j 14:07	3°♎33'00	
conjunction	-7663 Nov 19 j 08:45	4°♎27'06	0°16'01
minimum elong	-7663 Nov 19 j 08:44	4°♎27'06	0°16'02
behind sun begin	-7663 Nov 19 j 07:58	4°♎26'59	
behind sun end	-7663 Nov 19 j 09:31	4°♎27'12	
max. Earth dist.	-7663 Nov 20 j 17:00	4°♎31'45	20.99350 AU
morning rise	-7663 Dec 05 j 07:20	5°♎21'45	
retrograde	-7662 Mar 09 j 20:09	8°♎29'41	
min. Earth dist.	-7662 May 25 j 20:55	6°♎33'13	19.00940 AU
opposition	-7662 May 27 j 03:52	6°♎30'07	0°15'26
direct	-7662 Aug 10 j 13:31	4°♎33'58	
evening set	-7662 Nov 07 j 18:35	7°♎32'12	
conjunction	-7662 Nov 23 j 14:10	8°♎26'17	0°12'02
minimum elong	-7662 Nov 23 j 14:10	8°♎26'17	0°12'02
behind sun begin	-7662 Nov 23 j 09:37	8°♎25'39	
behind sun end	-7662 Nov 23 j 18:42	8°♎26'55	
max. Earth dist.	-7662 Nov 24 j 23:25	8°♎31'04	21.02326 AU
morning rise	-7662 Dec 09 j 13:35	9°♎20'56	
retrograde	-7661 Mar 14 j 04:24	12°♎28'40	
min. Earth dist.	-7661 May 30 j 05:30	10°♎32'13	19.03703 AU
opposition	-7661 May 31 j 12:02	10°♎29'09	0°10'59
direct	-7661 Aug 14 j 19:33	8°♎33'10	
evening set	-7661 Nov 11 j 23:10	11°♎30'58	
conjunction	-7661 Nov 27 j 19:30	12°♎25'04	0°08'01
minimum elong	-7661 Nov 27 j 19:30	12°♎25'04	0°07'57
behind sun begin	-7661 Nov 27 j 13:36	12°♎24'14	
behind sun end	-7661 Nov 28 j 01:25	12°♎25'53	
max. Earth dist.	-7661 Nov 29 j 03:27	12°♎29'38	21.04880 AU
morning rise	-7661 Dec 13 j 20:06	13°♎19'44	
retrograde	-7660 Mar 17 j 13:14	16°♎27'19	
opposition	-7660 Jun 03 j 19:56	14°♎27'49	0°06'29
min. Earth dist.	-7660 Jun 02 j 13:55	14°♎30'50	19.06028 AU
direct	-7660 Aug 18 j 00:44	12°♎31'57	
evening set	-7660 Nov 15 j 03:39	15°♎29'25	
conjunction	-7660 Dec 01 j 01:05	16°♎23'32	0°03'57
minimum elong	-7660 Dec 01 j 01:04	16°♎23'32	0°03'52
behind sun begin	-7660 Nov 30 j 18:32	16°♎22'37	
behind sun end	-7660 Dec 01 j 07:36	16°♎24'26	
max. Earth dist.	-7660 Dec 02 j 09:32	16°♎28'10	21.06949 AU
morning rise	-7660 Dec 17 j 02:33	17°♎18'14	
retrograde	-7659 Mar 21 j 21:43	20°♎25'40	
min. Earth dist.	-7659 Jun 06 j 22:11	18°♎29'09	19.07830 AU
opposition	-7659 Jun 08 j 03:25	18°♎26'13	0°01'58
direct	-7659 Aug 22 j 06:44	16°♎30'26	
desc. node	-7659 Nov 15 j 10:46	19°♎14'40	
evening set	-7659 Nov 19 j 08:33	19°♎27'37	
conjunction	-7659 Dec 05 j 06:49	20°♎21'46	-0°00'14
minimum elong	-7659 Dec 05 j 06:48	20°♎21'46	0°00'21
behind sun begin	-7659 Dec 05 j 00:13	20°♎20'51	
behind sun end	-7659 Dec 05 j 13:23	20°♎22'41	
max. Earth dist.	-7659 Dec 06 j 13:20	20°♎26'08	21.08486 AU
morning rise	-7659 Dec 21 j 09:29	21°♎16'31	
retrograde	-7658 Mar 26 j 06:00	24°♎23'51	
min. Earth dist.	-7658 Jun 11 j 06:18	22°♎27'13	19.09088 AU
opposition	-7658 Jun 12 j 10:26	22°♎24'23	-0°02'34
direct	-7658 Aug 26 j 11:13	20°♎28'37	
evening set	-7658 Nov 23 j 13:25	23°♎25'37	
conjunction	-7658 Dec 09 j 12:48	24°♎19'49	-0°04'22
minimum elong	-7658 Dec 09 j 12:48	24°♎19'49	0°04'31
behind sun begin	-7658 Dec 09 j 06:18	24°♎18'55	
behind sun end	-7658 Dec 09 j 19:17	24°♎20'43	
max. Earth dist.	-7658 Dec 10 j 19:19	24°♎24'10	21.09449 AU
morning rise	-7658 Dec 25 j 16:22	25°♎14'38	
retrograde	-7657 Mar 30 j 13:58	28°♎21'52	
opposition	-7657 Jun 16 j 17:12	26°♎22'21	-0°07'04
min. Earth dist.	-7657 Jun 15 j 14:00	26°♎25'06	19.09755 AU
direct	-7657 Aug 30 j 17:14	24°♎26'35	
evening set	-7657 Nov 27 j 18:23	27°♎23'25	
conjunction	-7657 Dec 13 j 18:38	28°♎17'41	-0°08'24
minimum elong	-7657 Dec 13 j 18:38	28°♎17'41	0°08'35
behind sun begin	-7657 Dec 13 j 12:52	28°♎16'53	
behind sun end	-7657 Dec 14 j 00:25	28°♎18'29	
max. Earth dist.	-7657 Dec 14 j 23:01	28°♎21'44	21.09842 AU
morning rise	-7657 Dec 29 j 23:25	29°♎12'35	
	-7656 Jan 13 j 16:13	0°♏	
retrograde	-7656 Apr 02 j 22:09	2°♏19'46	
opposition	-7656 Jun 19 j 23:43	0°♏20'10	-0°11'31
min. Earth dist.	-7656 Jun 18 j 21:49	0°♏22'46	19.09869 AU
	-7656 Jun 28 j 08:50	30°℞♎	
direct	-7656 Sep 02 j 21:35	28°♎24'19	
	-7656 Nov 04 j 19:37	0°♏	
evening set	-7656 Nov 30 j 23:30	1°♏21'03	
conjunction	-7656 Dec 17 j 00:56	2°♏15'25	-0°12'24
minimum elong	-7656 Dec 17 j 00:56	2°♏15'25	0°12'37
behind sun begin	-7656 Dec 16 j 20:43	2°♏14'50	
behind sun end	-7656 Dec 17 j 05:10	2°♏16'00	
max. Earth dist.	-7656 Dec 18 j 05:16	2°♏19'27	21.09685 AU
morning rise	-7655 Jan 02 j 06:38	3°♏10'24	
retrograde	-7655 Apr 07 j 05:13	6°♏17'31	
min. Earth dist.	-7655 Jun 23 j 04:50	4°♏20'21	19.09449 AU
opposition	-7655 Jun 24 j 05:43	4°♏17'50	-0°15'55
direct	-7655 Sep 07 j 03:10	2°♏21'53	
evening set	-7655 Dec 05 j 04:59	5°♏18'37	
conjunction	-7655 Dec 21 j 07:21	6°♏13'04	-0°16'20
minimum elong	-7655 Dec 21 j 07:21	6°♏13'04	0°16'35
max. Earth dist.	-7655 Dec 22 j 09:24	6°♏16'46	21.09032 AU
morning rise	-7654 Jan 06 j 14:15	7°♏08'09	
retrograde	-7654 Apr 11 j 13:40	10°♏15'15	
opposition	-7654 Jun 28 j 11:36	8°♏15'27	-0°20'14
min. Earth dist.	-7654 Jun 27 j 12:09	8°♏17'50	19.08567 AU
direct	-7654 Sep 11 j 07:19	6°♏19'21	
evening set	-7654 Dec 09 j 10:33	9°♏16'10	
conjunction	-7654 Dec 25 j 14:03	10°♏10'44	-0°20'11
minimum elong	-7654 Dec 25 j 14:03	10°♏10'44	0°20'29
max. Earth dist.	-7654 Dec 26 j 16:03	10°♏14'26	21.07923 AU
morning rise	-7653 Jan 10 j 21:47	11°♏05'55	
retrograde	-7653 Apr 15 j 20:14	14°♏13'03	
opposition	-7653 Jul 02 j 17:08	12°♏13'09	-0°24'27
min. Earth dist.	-7653 Jul 01 j 18:35	12°♏15'27	19.07248 AU
direct	-7653 Sep 15 j 12:16	10°♏16'54	
evening set	-7653 Dec 13 j 16:34	13°♏13'52	
conjunction	-7653 Dec 29 j 20:58	14°♏08'34	-0°23'57
minimum elong	-7653 Dec 29 j 20:58	14°♏08'34	0°24'16
max. Earth dist.	-7653 Dec 30 j 20:40	14°♏11'56	21.06421 AU
	-7652 Jan 14 j 01:51	15°♏	
morning rise	-7652 Jan 15 j 05:52	15°♏03'53	

Attention, astronomical year style is used: The year -7652 in astronomical counting style is the year 7653 BCE in historical counting style.

retrograde	-7652 Apr 19 j 04:39	18°♏11'05	
opposition	-7652 Jul 05 j 22:40	16°♏11'05	-0°28'34
min. Earth dist.	-7652 Jul 05 j 01:38	16°♏13'14	19.05564 AU
	-7652 Aug 06 j 05:59	15°℞♏	
direct	-7652 Sep 18 j 16:17	14°♏14'40	
	-7652 Oct 30 j 23:43	15°♏	
evening set	-7652 Dec 16 j 22:48	17°♏11'52	
conjunction	-7651 Jan 02 j 04:26	18°♏06'44	-0°27'36
minimum elong	-7651 Jan 02 j 04:25	18°♏06'44	0°27'57
max. Earth dist.	-7651 Jan 03 j 03:56	18°♏10'04	21.04550 AU
morning rise	-7651 Jan 18 j 14:11	19°♏02'11	
retrograde	-7651 Apr 23 j 12:10	22°♏09'29	
min. Earth dist.	-7651 Jul 09 j 08:01	20°♏11'28	19.03509 AU
opposition	-7651 Jul 10 j 04:04	20°♏09'26	-0°32'32
direct	-7651 Sep 22 j 21:04	18°♏12'51	
evening set	-7651 Dec 21 j 05:44	21°♏10'23	
conjunction	-7650 Jan 06 j 12:16	22°♏05'24	-0°31'08
minimum elong	-7650 Jan 06 j 12:16	22°♏05'24	0°31'30
max. Earth dist.	-7650 Jan 07 j 09:10	22°♏08'21	21.02327 AU
morning rise	-7650 Jan 22 j 23:09	23°♏01'00	
retrograde	-7650 Apr 27 j 20:35	26°♏08'28	
opposition	-7650 Jul 14 j 09:26	24°♏08'21	-0°36'23
min. Earth dist.	-7650 Jul 13 j 15:13	24°♏10'13	19.01114 AU
direct	-7650 Sep 27 j 01:00	22°♏11'36	
evening set	-7650 Dec 25 j 13:02	25°♏09'34	
conjunction	-7649 Jan 10 j 20:45	26°♏04'45	-0°34'32
minimum elong	-7649 Jan 10 j 20:44	26°♏04'45	0°34'55
max. Earth dist.	-7649 Jan 11 j 17:12	26°♏07'39	20.99754 AU
morning rise	-7649 Jan 27 j 08:22	27°♏00'31	
	-7649 Apr 13 j 22:12	0°♐	
retrograde	-7649 May 02 j 05:22	0°♐08'11	
	-7649 May 20 j 15:29	30°℞♏	
opposition	-7649 Jul 18 j 14:55	28°♏08'02	-0°40'03
min. Earth dist.	-7649 Jul 17 j 21:48	28°♏09'47	18.98357 AU
direct	-7649 Oct 01 j 06:00	26°♏11'07	
evening set	-7649 Dec 29 j 20:54	29°♏09'34	
	-7648 Jan 13 j 18:42	0°♐	
conjunction	-7648 Jan 15 j 05:30	0°♐04'57	-0°37'47
minimum elong	-7648 Jan 15 j 05:30	0°♐04'57	0°38'12
max. Earth dist.	-7648 Jan 15 j 23:07	0°♐07'27	20.96827 AU
morning rise	-7648 Jan 31 j 18:13	1°♐00'53	
retrograde	-7648 May 05 j 14:26	4°♐08'50	
opposition	-7648 Jul 21 j 20:37	2°♐08'38	-0°43'33
min. Earth dist.	-7648 Jul 21 j 05:40	2°♐10'10	18.95244 AU
direct	-7648 Oct 04 j 10:17	0°♐11'32	
evening set	-7647 Jan 02 j 05:32	3°♐10'35	
conjunction	-7647 Jan 18 j 15:18	4°♐06'10	-0°40'51
minimum elong	-7647 Jan 18 j 15:18	4°♐06'10	0°41'17
max. Earth dist.	-7647 Jan 19 j 08:06	4°♐08'33	20.93516 AU
morning rise	-7647 Feb 04 j 04:43	5°♐02'17	
retrograde	-7647 May 10 j 00:20	8°♐10'29	
opposition	-7647 Jul 26 j 02:18	6°♐10'17	-0°46'52
min. Earth dist.	-7647 Jul 25 j 12:48	6°♐11'41	18.91723 AU
direct	-7647 Oct 08 j 15:50	4°♐12'59	
evening set	-7646 Jan 06 j 15:06	7°♐12'42	
conjunction	-7646 Jan 23 j 01:41	8°♐08'30	-0°43'44
minimum elong	-7646 Jan 23 j 01:41	8°♐08'30	0°44'12
max. Earth dist.	-7646 Jan 23 j 15:04	8°♐10'24	20.89789 AU
morning rise	-7646 Feb 08 j 16:05	9°♐04'49	
retrograde	-7646 May 14 j 10:20	12°♐13'21	
opposition	-7646 Jul 30 j 08:26	10°♐13'06	-0°49'57
min. Earth dist.	-7646 Jul 29 j 21:31	10°♐14'14	18.87780 AU
direct	-7646 Oct 12 j 20:58	8°♐15'33	
evening set	-7645 Jan 11 j 01:07	11°♐16'00	
conjunction	-7645 Jan 27 j 12:48	12°♐12'02	-0°46'25
minimum elong	-7645 Jan 27 j 12:48	12°♐12'02	0°46'53
max. Earth dist.	-7645 Jan 28 j 00:58	12°♐13'46	20.85613 AU
morning rise	-7645 Feb 13 j 03:47	13°♐08'33	
retrograde	-7645 May 18 j 21:08	16°♐17'25	
opposition	-7645 Aug 03 j 14:46	14°♐17'07	-0°52'48
min. Earth dist.	-7645 Aug 03 j 05:24	14°♐18'05	18.83367 AU
direct	-7645 Oct 17 j 03:31	12°♐19'18	
evening set	-7644 Jan 15 j 12:07	15°♐20'32	
conjunction	-7644 Feb 01 j 00:36	16°♐16'47	-0°48'52
minimum elong	-7644 Feb 01 j 00:36	16°♐16'47	0°49'22
max. Earth dist.	-7644 Feb 01 j 09:02	16°♐18'00	20.80976 AU
morning rise	-7644 Feb 17 j 16:29	17°♐13'32	
retrograde	-7644 May 22 j 07:47	20°♐22'46	
opposition	-7644 Aug 06 j 21:28	18°♐22'22	-0°55'24
min. Earth dist.	-7644 Aug 06 j 14:53	18°♐23'03	18.78506 AU
direct	-7644 Oct 20 j 09:40	16°♐24'13	
evening set	-7643 Jan 18 j 23:43	19°♐26'17	
conjunction	-7643 Feb 04 j 13:19	20°♐22'48	-0°51'05
minimum elong	-7643 Feb 04 j 13:18	20°♐22'48	0°51'35
max. Earth dist.	-7643 Feb 04 j 20:16	20°♐23'48	20.75891 AU
morning rise	-7643 Feb 21 j 05:44	21°♐19'45	
retrograde	-7643 May 26 j 19:33	24°♐29'21	
opposition	-7643 Aug 11 j 04:25	22°♐28'51	-0°57'43
min. Earth dist.	-7643 Aug 10 j 23:26	22°♐29'22	18.73198 AU
direct	-7643 Oct 24 j 17:34	20°♐30'21	
evening set	-7642 Jan 23 j 12:16	23°♐33'19	
conjunction	-7642 Feb 09 j 02:32	24°♐30'05	-0°53'03
minimum elong	-7642 Feb 09 j 02:32	24°♐30'05	0°53'33
max. Earth dist.	-7642 Feb 09 j 05:44	24°♐30'32	20.70391 AU
morning rise	-7642 Feb 25 j 19:43	25°♐27'15	
retrograde	-7642 May 31 j 06:33	28°♐37'14	
opposition	-7642 Aug 15 j 11:43	26°♐36'36	-0°59'46
min. Earth dist.	-7642 Aug 15 j 09:35	26°♐36'49	18.67522 AU
direct	-7642 Oct 29 j 00:28	24°♐37'41	
evening set	-7641 Jan 28 j 01:18	27°♐41'37	
conjunction	-7641 Feb 13 j 16:34	28°♐38'39	-0°54'44
minimum elong	-7641 Feb 13 j 16:34	28°♐38'39	0°55'16
max. Earth dist.	-7641 Feb 13 j 18:28	28°♐38'56	20.64554 AU
morning rise	-7641 Mar 02 j 10:10	29°♐36'03	
	-7641 Mar 09 j 14:56	0°♑	
retrograde	-7641 Jun 04 j 19:30	2°♑46'27	
opposition	-7641 Aug 19 j 19:17	0°♑45'40	-1°01'30
min. Earth dist.	-7641 Aug 19 j 18:31	0°♑45'45	18.61539 AU
	-7641 Sep 07 j 09:51	30°℞♐	
direct	-7641 Nov 02 j 09:37	28°♐46'21	
	-7641 Dec 26 j 20:23	0°♑	
evening set	-7640 Feb 01 j 15:10	1°♑51'17	
conjunction	-7640 Feb 18 j 07:04	2°♑48'35	-0°56'09
minimum elong	-7640 Feb 18 j 07:04	2°♑48'35	0°56'40
max. Earth dist.	-7640 Feb 18 j 05:29	2°♑48'21	20.58450 AU
morning rise	-7640 Mar 06 j 01:21	3°♑46'14	
retrograde	-7640 Jun 08 j 07:07	6°♑57'04	
opposition	-7640 Aug 23 j 03:25	4°♑56'08	-1°02'55
min. Earth dist.	-7640 Aug 23 j 05:27	4°♑55'56	18.55333 AU
direct	-7640 Nov 05 j 17:09	2°♑56'24	
evening set	-7639 Feb 05 j 05:52	6°♑02'25	

Attention, astronomical year style is used: The year -7639 in astronomical counting style is the year 7640 BCE in historical counting style.

conjunction	-7639 Feb 21 j 22:40	7°♉00'00	-0°57'17
minimum elong	-7639 Feb 21 j 22:40	7°♉00'00	0°57'48
max. Earth dist.	-7639 Feb 21 j 19:49	6°♉59'35	20.52151 AU
morning rise	-7639 Mar 10 j 17:14	7°♉57'53	
retrograde	-7639 Jun 12 j 21:39	11°♉09'09	
opposition	-7639 Aug 27 j 11:48	9°♉08'07	-1°04'01
min. Earth dist.	-7639 Aug 27 j 15:03	9°♉07'46	18.48955 AU
direct	-7639 Nov 10 j 03:36	7°♉07'57	
evening set	-7638 Feb 09 j 21:33	10°♉15'06	
conjunction	-7638 Feb 26 j 14:51	11°♉12'58	-0°58'06
minimum elong	-7638 Feb 26 j 14:51	11°♉12'58	0°58'37
max. Earth dist.	-7638 Feb 26 j 08:38	11°♉12'04	20.45712 AU
morning rise	-7638 Mar 15 j 09:54	12°♉11'06	
retrograde	-7638 Jun 17 j 10:09	15°♉22'52	
opposition	-7638 Aug 31 j 20:59	13°♉21'43	-1°04'47
min. Earth dist.	-7638 Sep 01 j 02:55	13°♉21'05	18.42479 AU
direct	-7638 Nov 14 j 12:21	11°♉21'09	
evening set	-7637 Feb 14 j 13:44	14°♉29'29	
conjunction	-7637 Mar 03 j 07:48	15°♉27'38	-0°58'37
minimum elong	-7637 Mar 03 j 07:48	15°♉27'38	0°59'08
max. Earth dist.	-7637 Mar 03 j 00:24	15°♉26'34	20.39201 AU
morning rise	-7637 Mar 20 j 03:00	16°♉26'01	
retrograde	-7637 Jun 22 j 01:52	19°♉38'18	
opposition	-7637 Sep 05 j 06:37	17°♉37'04	-1°05'13
min. Earth dist.	-7637 Sep 05 j 13:30	17°♉36'20	18.35941 AU
direct	-7637 Nov 18 j 23:51	15°♉36'07	
evening set	-7636 Feb 19 j 07:08	18°♉45'41	
conjunction	-7636 Mar 07 j 01:37	19°♉44'08	-0°58'49
minimum elong	-7636 Mar 07 j 01:37	19°♉44'08	0°59'20
max. Earth dist.	-7636 Mar 06 j 15:02	19°♉42'35	20.32647 AU
morning rise	-7636 Mar 23 j 21:09	20°♉42'46	
retrograde	-7636 Jun 25 j 15:45	23°♉55'36	
opposition	-7636 Sep 08 j 16:56	21°♉54'17	-1°05'17
min. Earth dist.	-7636 Sep 09 j 02:35	21°♉53'16	18.29385 AU
direct	-7636 Nov 22 j 10:23	19°♉52'57	
evening set	-7635 Feb 23 j 01:24	23°♉03'49	
conjunction	-7635 Mar 11 j 20:30	24°♉02'34	-0°58'42
minimum elong	-7635 Mar 11 j 20:30	24°♉02'34	0°59'11
max. Earth dist.	-7635 Mar 11 j 08:27	24°♉00'48	20.26085 AU
morning rise	-7635 Mar 28 j 16:06	25°♉01'26	
retrograde	-7635 Jun 30 j 08:29	28°♉14'49	
opposition	-7635 Sep 13 j 03:56	26°♉13'29	-1°04'59
min. Earth dist.	-7635 Sep 13 j 14:31	26°♉12'21	18.22810 AU
direct	-7635 Nov 26 j 23:19	24°♉11'48	
evening set	-7634 Feb 27 j 20:43	27°♉24'00	
conjunction	-7634 Mar 16 j 16:04	28°♉23'02	-0°58'14
minimum elong	-7634 Mar 16 j 16:04	28°♉23'02	0°58'44
max. Earth dist.	-7634 Mar 16 j 00:59	28°♉20'49	20.19498 AU
morning rise	-7634 Apr 02 j 11:44	29°♉22'09	
	-7634 Apr 13 j 16:39	0°♒	
retrograde	-7634 Jul 04 j 23:40	2°♒36'07	
opposition	-7634 Sep 17 j 15:46	0°♒34'45	-1°04'18
min. Earth dist.	-7634 Sep 18 j 05:15	0°♒33'18	18.16223 AU
	-7634 Oct 01 j 08:29	30°℞♉	
direct	-7634 Dec 01 j 11:49	28°♉32'43	
	-7633 Jan 29 j 23:43	0°♒	
evening set	-7633 Mar 04 j 16:52	1°♒46'16	
conjunction	-7633 Mar 21 j 12:38	2°♒45'35	-0°57'26
minimum elong	-7633 Mar 21 j 12:38	2°♒45'35	0°57'54
max. Earth dist.	-7633 Mar 20 j 19:50	2°♒43'06	20.12901 AU
morning rise	-7633 Apr 07 j 08:15	3°♒44'56	
retrograde	-7633 Jul 09 j 17:29	6°♒59'29	
opposition	-7633 Sep 22 j 04:14	4°♒58'05	-1°03'14
min. Earth dist.	-7633 Sep 22 j 18:44	4°♒56'32	18.09609 AU
direct	-7633 Dec 06 j 02:46	2°♒55'42	
evening set	-7632 Mar 08 j 14:04	6°♒10'36	
conjunction	-7632 Mar 25 j 10:01	7°♒10'13	-0°56'17
minimum elong	-7632 Mar 25 j 10:02	7°♒10'13	0°56'44
max. Earth dist.	-7632 Mar 24 j 14:19	7°♒07'17	20.06258 AU
morning rise	-7632 Apr 11 j 05:33	8°♒09'47	
retrograde	-7632 Jul 13 j 09:57	11°♒24'55	
opposition	-7632 Sep 25 j 17:46	9°♒23'29	-1°01'47
min. Earth dist.	-7632 Sep 26 j 11:16	9°♒21'36	18.02950 AU
direct	-7632 Dec 09 j 17:39	7°♒20'42	
evening set	-7631 Mar 13 j 12:14	10°♒36'58	
max. Earth dist.	-7631 Mar 29 j 10:31	11°♒33'35	19.99577 AU
conjunction	-7631 Mar 30 j 08:21	11°♒36'51	-0°54'47
minimum elong	-7631 Mar 30 j 08:22	11°♒36'51	0°55'12
morning rise	-7631 Apr 16 j 03:40	12°♒36'38	
	-7631 Jun 03 j 05:41	15°♒	
retrograde	-7631 Jul 18 j 04:40	15°♒52'19	
	-7631 Sep 01 j 20:41	15°℞♒	
opposition	-7631 Sep 30 j 07:54	13°♒50'49	-0°59'57
min. Earth dist.	-7631 Oct 01 j 02:22	13°♒48'50	17.96249 AU
direct	-7631 Dec 14 j 10:59	11°♒47'38	
	-7630 Mar 16 j 23:13	15°♒	
evening set	-7630 Mar 18 j 11:15	15°♒05'15	
max. Earth dist.	-7630 Apr 03 j 07:09	16°♒01'45	19.92862 AU
conjunction	-7630 Apr 04 j 07:25	16°♒05'24	-0°52'57
minimum elong	-7630 Apr 04 j 07:25	16°♒05'24	0°53'20
morning rise	-7630 Apr 21 j 02:21	17°♒05'24	
retrograde	-7630 Jul 22 j 22:21	20°♒21'37	
opposition	-7630 Oct 04 j 23:06	18°♒20'02	-0°57'44
min. Earth dist.	-7630 Oct 05 j 20:20	18°♒17'44	17.89547 AU
direct	-7630 Dec 19 j 03:53	16°♒16'26	
evening set	-7629 Mar 23 j 10:48	19°♒35'21	
max. Earth dist.	-7629 Apr 08 j 04:33	20°♒31'46	19.86186 AU
conjunction	-7629 Apr 09 j 06:56	20°♒35'44	-0°50'46
minimum elong	-7629 Apr 09 j 06:56	20°♒35'44	0°51'09
morning rise	-7629 Apr 26 j 01:36	21°♒35'56	
retrograde	-7629 Jul 27 j 18:18	24°♒52'41	
opposition	-7629 Oct 09 j 14:51	22°♒50'59	-0°55'09
min. Earth dist.	-7629 Oct 10 j 12:49	22°♒48'36	17.82906 AU
direct	-7629 Dec 23 j 23:22	20°♒46'58	
evening set	-7628 Mar 27 j 11:16	24°♒07'11	
max. Earth dist.	-7628 Apr 12 j 03:19	25°♒03'34	19.79594 AU
conjunction	-7628 Apr 13 j 07:19	25°♒07'48	-0°48'15
minimum elong	-7628 Apr 13 j 07:19	25°♒07'48	0°48'36
morning rise	-7628 Apr 30 j 01:24	26°♒08'12	
retrograde	-7628 Jul 31 j 12:55	29°♒25'26	
opposition	-7628 Oct 13 j 07:27	27°♒23'38	-0°52'12
min. Earth dist.	-7628 Oct 14 j 07:52	27°♒20'59	17.76395 AU
direct	-7628 Dec 27 j 17:38	25°♒19'11	
evening set	-7627 Apr 01 j 12:27	28°♒40'40	
max. Earth dist.	-7627 Apr 17 j 02:08	29°♒36'56	19.73186 AU
conjunction	-7627 Apr 18 j 08:11	29°♒41'30	-0°45'26
minimum elong	-7627 Apr 18 j 08:12	29°♒41'30	0°45'45
	-7627 Apr 23 j 09:53	0°♓	
morning rise	-7627 May 05 j 01:51	0°♓42'04	
retrograde	-7627 Aug 05 j 10:14	3°♓59'47	
opposition	-7627 Oct 18 j 00:48	1°♓57'52	-0°48'55
min. Earth dist.	-7627 Oct 19 j 01:39	1°♓55'10	17.70106 AU

Attention, astronomical year style is used: The year -7627 in astronomical counting style is the year 7628 BCE in historical counting style.

	-7627 Dec 16 j 07:22	30°♓℞	
direct	-7626 Jan 01 j 14:51	29°♒53'01	
	-7626 Jan 17 j 18:48	0°♓	
evening set	-7626 Apr 06 j 13:58	3°♓15'43	
max. Earth dist.	-7626 Apr 22 j 02:52	4°♓12'06	19.67024 AU
conjunction	-7626 Apr 23 j 09:28	4°♓16'46	-0°42'19
minimum elong	-7626 Apr 23 j 09:28	4°♓16'46	0°42'35
morning rise	-7626 May 10 j 02:18	5°♓17'29	
retrograde	-7626 Aug 10 j 06:04	8°♓35'41	
opposition	-7626 Oct 22 j 19:05	6°♓33'40	-0°45'18
min. Earth dist.	-7626 Oct 23 j 21:43	6°♓30'45	17.64110 AU
direct	-7625 Jan 06 j 10:43	4°♓28'26	
evening set	-7625 Apr 11 j 16:12	7°♓52'19	
max. Earth dist.	-7625 Apr 27 j 02:45	8°♓48'35	19.61212 AU
conjunction	-7625 Apr 28 j 11:07	8°♓53'32	-0°38'54
minimum elong	-7625 Apr 28 j 11:07	8°♓53'32	0°39'08
morning rise	-7625 May 15 j 03:23	9°♓54'24	
retrograde	-7625 Aug 15 j 04:08	13°♓13'04	
opposition	-7625 Oct 27 j 13:56	11°♓10'57	-0°41'21
min. Earth dist.	-7625 Oct 28 j 16:42	11°♓08'02	17.58500 AU
direct	-7624 Jan 11 j 08:59	9°♓05'22	
evening set	-7624 Apr 15 j 18:50	12°♓30'24	
max. Earth dist.	-7624 May 01 j 05:15	13°♓26'52	19.55805 AU
conjunction	-7624 May 02 j 13:23	13°♓31'49	-0°35'14
minimum elong	-7624 May 02 j 13:24	13°♓31'49	0°35'26
morning rise	-7624 May 19 j 04:40	14°♓32'47	
retrograde	-7624 Aug 19 j 01:33	17°♓51'53	
opposition	-7624 Oct 31 j 09:50	15°♓49'44	-0°37'08
min. Earth dist.	-7624 Nov 01 j 13:46	15°♓46'41	17.53320 AU
direct	-7623 Jan 15 j 06:37	13°♓43'53	
evening set	-7623 Apr 20 j 22:06	17°♓10'00	
max. Earth dist.	-7623 May 06 j 06:09	18°♓06'20	19.50870 AU
conjunction	-7623 May 07 j 15:49	18°♓11'32	-0°31'18
minimum elong	-7623 May 07 j 15:49	18°♓11'32	0°31'27
morning rise	-7623 May 24 j 06:20	19°♓12'38	
retrograde	-7623 Aug 24 j 00:21	22°♓32'10	
opposition	-7623 Nov 05 j 06:26	20°♓30'00	-0°32'38
min. Earth dist.	-7623 Nov 06 j 10:18	20°♓26'57	17.48641 AU
direct	-7622 Jan 20 j 05:48	18°♓23'55	
evening set	-7622 Apr 26 j 01:37	21°♓51'05	
max. Earth dist.	-7622 May 11 j 10:01	22°♓47'40	19.46445 AU
conjunction	-7622 May 12 j 18:46	22°♓52'44	-0°27'09
minimum elong	-7622 May 12 j 18:47	22°♓52'44	0°27'17
morning rise	-7622 May 29 j 08:09	23°♓53'54	
retrograde	-7622 Aug 28 j 23:21	27°♓13'52	
opposition	-7622 Nov 10 j 03:56	25°♓11'44	-0°27'54
min. Earth dist.	-7622 Nov 11 j 08:19	25°♓08'37	17.44475 AU
direct	-7621 Jan 25 j 05:14	23°♓05'30	
evening set	-7621 May 01 j 05:34	26°♓33'36	
max. Earth dist.	-7621 May 16 j 11:46	27°♓30'04	19.42548 AU
conjunction	-7621 May 17 j 21:44	27°♓35'21	-0°22'48
minimum elong	-7621 May 17 j 21:44	27°♓35'21	0°22'53
morning rise	-7621 Jun 03 j 10:15	28°♓36'35	
	-7621 Jun 27 j 17:21	0°♈	
retrograde	-7621 Sep 02 j 22:28	1°♈56'57	
	-7621 Nov 13 j 03:04	30°♑℞	
opposition	-7621 Nov 15 j 02:08	29°♓54'52	-0°22'57
min. Earth dist.	-7621 Nov 16 j 06:36	29°♓51'45	17.40839 AU
direct	-7620 Jan 30 j 05:14	27°♓48'31	
	-7620 Apr 13 j 00:25	0°♈	
evening set	-7620 May 05 j 09:50	1°♈17'31	
max. Earth dist.	-7620 May 20 j 16:25	2°♈14'13	19.39159 AU
conjunction	-7620 May 22 j 01:14	2°♈19'20	-0°18'16
minimum elong	-7620 May 22 j 01:14	2°♈19'20	0°18'18
morning rise	-7620 Jun 07 j 12:30	3°♈20'35	
retrograde	-7620 Sep 06 j 22:35	6°♈41'19	
opposition	-7620 Nov 19 j 01:08	4°♈39'18	-0°17'48
min. Earth dist.	-7620 Nov 20 j 05:42	4°♈36'11	17.37686 AU
direct	-7619 Feb 03 j 07:18	2°♈32'53	
evening set	-7619 May 10 j 14:33	6°♈02'40	
max. Earth dist.	-7619 May 25 j 19:04	6°♈59'14	19.36250 AU
conjunction	-7619 May 27 j 04:46	7°♈04'31	-0°13'36
minimum elong	-7619 May 27 j 04:46	7°♈04'31	0°13'36
behind sun begin	-7619 May 27 j 01:10	7°♈03'58	
behind sun end	-7619 May 27 j 08:23	7°♈05'04	
morning rise	-7619 Jun 12 j 14:56	8°♈05'47	
retrograde	-7619 Sep 11 j 21:29	11°♈26'50	
opposition	-7619 Nov 24 j 01:02	9°♈24'53	-0°12'31
min. Earth dist.	-7619 Nov 25 j 05:48	9°♈21'44	17.35023 AU
direct	-7618 Feb 08 j 09:04	7°♈18'24	
evening set	-7618 May 15 j 19:03	10°♈48'50	
max. Earth dist.	-7618 May 30 j 23:52	11°♈45'36	19.33813 AU
conjunction	-7618 Jun 01 j 08:18	11°♈50'41	-0°08'49
minimum elong	-7618 Jun 01 j 08:18	11°♈50'41	0°08'46
behind sun begin	-7618 Jun 01 j 02:30	11°♈49'48	
behind sun end	-7618 Jun 01 j 14:05	11°♈51'35	
morning rise	-7618 Jun 17 j 17:10	12°♈51'56	
retrograde	-7618 Sep 16 j 22:05	16°♈13'16	
opposition	-7618 Nov 29 j 01:34	14°♈11'21	-0°07'08
min. Earth dist.	-7618 Nov 30 j 05:44	14°♈08'17	17.32806 AU
direct	-7617 Feb 13 j 13:34	12°♈04'51	
evening set	-7617 May 20 j 23:51	15°♈35'48	
max. Earth dist.	-7617 Jun 05 j 03:06	16°♈32'29	19.31823 AU
conjunction	-7617 Jun 06 j 11:51	16°♈37'38	-0°03'59
minimum elong	-7617 Jun 06 j 11:51	16°♈37'38	0°03'53
behind sun begin	-7617 Jun 06 j 05:12	16°♈36'36	
behind sun end	-7617 Jun 06 j 18:29	16°♈38'39	
morning rise	-7617 Jun 22 j 19:30	17°♈38'50	
retrograde	-7617 Sep 21 j 20:54	21°♈00'22	
opposition	-7617 Dec 04 j 02:34	18°♈58'30	-0°01'41
min. Earth dist.	-7617 Dec 05 j 07:03	18°♈55'24	17.31053 AU
direct	-7616 Feb 18 j 16:33	16°♈51'56	
asc. node	-7616 Mar 25 j 06:38	17°♈24'56	
evening set	-7616 May 25 j 04:30	20°♈23'18	
max. Earth dist.	-7616 Jun 09 j 07:43	21°♈20'05	19.30301 AU
conjunction	-7616 Jun 10 j 15:20	21°♈25'04	0°01'02
minimum elong	-7616 Jun 10 j 15:20	21°♈25'04	0°01'10
behind sun begin	-7616 Jun 10 j 08:38	21°♈24'03	
behind sun end	-7616 Jun 10 j 22:02	21°♈26'06	
morning rise	-7616 Jun 26 j 21:42	22°♈26'13	
retrograde	-7616 Sep 25 j 22:00	25°♈47'53	
opposition	-7616 Dec 08 j 04:11	23°♈46'03	0°03'47
min. Earth dist.	-7616 Dec 09 j 07:23	23°♈43'05	17.29752 AU
direct	-7615 Feb 22 j 22:12	21°♈39'28	
evening set	-7615 May 30 j 08:54	25°♈11'04	
max. Earth dist.	-7615 Jun 14 j 11:28	26°♈07'53	19.29241 AU
conjunction	-7615 Jun 15 j 18:25	26°♈12'46	0°05'57
minimum elong	-7615 Jun 15 j 18:25	26°♈12'46	0°06'08
behind sun begin	-7615 Jun 15 j 12:04	26°♈11'47	
behind sun end	-7615 Jun 16 j 00:46	26°♈13'45	
morning rise	-7615 Jul 01 j 23:26	27°♈13'49	
	-7615 Aug 26 j 07:58	0°♉	

Attention, astronomical year style is used: The year -7615 in astronomical counting style is the year 7616 BCE in historical counting style.

retrograde	-7615 Sep 30 j 21:21	0°♉35'35		
	-7615 Nov 06 j 10:47	30°℞♈		
opposition	-7615 Dec 13 j 06:21	28°♈33'45	0°09'14	
min. Earth dist.	-7615 Dec 14 j 09:36	28°♈30'48	17.28949 AU	
direct	-7614 Feb 28 j 01:40	26°♈27'09		
evening set	-7614 Jun 04 j 12:57	29°♈58'53		
	-7614 Jun 04 j 20:13	0°♉		
conjunction	-7614 Jun 20 j 21:09	1°♉00'27	0°10'46	
minimum elong	-7614 Jun 20 j 21:09	1°♉00'27	0°10'58	
behind sun begin	-7614 Jun 20 j 16:07	0°♉59'41		
behind sun end	-7614 Jun 21 j 02:11	1°♉01'14		
max. Earth dist.	-7614 Jun 19 j 15:27	0°♉55'45	19.28703 AU	
morning rise	-7614 Jul 07 j 00:57	2°♉01'25		
retrograde	-7614 Oct 05 j 22:35	5°♉23'11		
opposition	-7614 Dec 18 j 08:37	3°♉21'21	0°14'37	
min. Earth dist.	-7614 Dec 19 j 09:53	3°♉18'37	17.28670 AU	
direct	-7613 Mar 05 j 06:59	1°♉14'45		
evening set	-7613 Jun 09 j 16:29	4°♉46'28		
conjunction	-7613 Jun 25 j 23:26	5°♉47'55	0°15'32	
minimum elong	-7613 Jun 25 j 23:26	5°♉47'55	0°15'47	
behind sun begin	-7613 Jun 25 j 22:15	5°♉47'44		
behind sun end	-7613 Jun 26 j 00:37	5°♉48'06		
max. Earth dist.	-7613 Jun 24 j 19:28	5°♉43'29	19.28700 AU	
morning rise	-7613 Jul 12 j 01:51	6°♉48'44		
retrograde	-7613 Oct 10 j 22:11	10°♉10'28		
opposition	-7613 Dec 23 j 11:21	8°♉08'37	0°19'52	
min. Earth dist.	-7613 Dec 24 j 12:20	8°♉05'56	17.28953 AU	
direct	-7612 Mar 09 j 10:25	6°♉02'04		
evening set	-7612 Jun 13 j 19:36	9°♉33'38		
max. Earth dist.	-7612 Jun 28 j 22:27	10°♉30'41	19.29283 AU	
conjunction	-7612 Jun 30 j 01:05	10°♉34'55	0°20'10	
minimum elong	-7612 Jun 30 j 01:05	10°♉34'55	0°20'28	
morning rise	-7612 Jul 16 j 02:19	11°♉35'34		
retrograde	-7612 Oct 14 j 23:09	14°♉57'13		
opposition	-7612 Dec 27 j 14:08	12°♉55'23	0°24'59	
min. Earth dist.	-7612 Dec 28 j 12:29	12°♉52'59	17.29833 AU	
direct	-7611 Mar 14 j 15:51	10°♉48'55		
evening set	-7611 Jun 18 j 22:02	14°♉20'12		
	-7611 Jun 29 j 11:58	15°♉		
max. Earth dist.	-7611 Jul 04 j 02:24	15°♉17'31	19.30476 AU	
conjunction	-7611 Jul 05 j 02:16	15°♉21'18	0°24'40	
minimum elong	-7611 Jul 05 j 02:16	15°♉21'18	0°24'59	
morning rise	-7611 Jul 21 j 02:04	16°♉21'46		
retrograde	-7611 Oct 19 j 22:07	19°♉43'19		
opposition	-7610 Jan 01 j 17:18	17°♉41'30	0°29'55	
min. Earth dist.	-7610 Jan 02 j 14:46	17°♉39'11	17.31352 AU	
direct	-7610 Mar 19 j 19:33	15°♉35'10		
evening set	-7610 Jun 23 j 23:49	19°♉06'04		
max. Earth dist.	-7610 Jul 09 j 04:07	20°♉03'23	19.32327 AU	
conjunction	-7610 Jul 10 j 02:33	20°♉06'57	0°28'59	
minimum elong	-7610 Jul 10 j 02:33	20°♉06'57	0°29'21	
morning rise	-7610 Jul 26 j 01:17	21°♉07'14		
retrograde	-7610 Oct 24 j 22:29	24°♉28'37		
opposition	-7609 Jan 06 j 20:17	22°♉26'51	0°34'37	
min. Earth dist.	-7609 Jan 07 j 14:43	22°♉24'53	17.33524 AU	
direct	-7609 Mar 25 j 00:44	20°♉20'43		
evening set	-7609 Jun 29 j 00:56	23°♉51'09		
max. Earth dist.	-7609 Jul 14 j 07:21	24°♉48'46	19.34821 AU	
conjunction	-7609 Jul 15 j 02:29	24°♉51'48	0°33'06	
minimum elong	-7609 Jul 15 j 02:28	24°♉51'48	0°33'28	
morning rise	-7609 Jul 30 j 23:50	25°♉51'52		
retrograde	-7609 Oct 29 j 20:53	29°♉13'03		
opposition	-7608 Jan 11 j 23:19	27°♉11'24	0°39'05	
min. Earth dist.	-7608 Jan 12 j 16:30	27°♉09'33	17.36330 AU	
direct	-7608 Mar 29 j 04:38	25°♉05'32		
evening set	-7608 Jul 03 j 01:32	28°♉35'23		
max. Earth dist.	-7608 Jul 18 j 07:51	29°♉32'58	19.37946 AU	
conjunction	-7608 Jul 19 j 01:35	29°♉35'47	0°36'59	
minimum elong	-7608 Jul 19 j 01:35	29°♉35'47	0°37'23	
	-7608 Jul 25 j 10:30	0°♊		
morning rise	-7608 Aug 03 j 21:58	0°♊35'38		
retrograde	-7608 Nov 02 j 20:36	3°♊56'37		
opposition	-7607 Jan 16 j 02:23	1°♊55'04	0°43'17	
min. Earth dist.	-7607 Jan 16 j 16:33	1°♊53'34	17.39747 AU	
	-7607 Mar 14 j 03:33	30°℞♉		
direct	-7607 Apr 03 j 09:16	29°♉49'31		
	-7607 Apr 23 j 08:50	0°♊		
evening set	-7607 Jul 08 j 01:06	3°♊18'42		
max. Earth dist.	-7607 Jul 23 j 09:58	4°♊16'37	19.41642 AU	
conjunction	-7607 Jul 24 j 00:02	4°♊18'50	0°40'36	
minimum elong	-7607 Jul 24 j 00:02	4°♊18'50	0°41'02	
morning rise	-7607 Aug 08 j 19:10	5°♊18'27		
retrograde	-7607 Nov 07 j 18:45	8°♊39'11		
opposition	-7606 Jan 21 j 05:29	6°♊37'48	0°47'10	
min. Earth dist.	-7606 Jan 21 j 18:01	6°♊36'28	17.43698 AU	
direct	-7606 Apr 08 j 12:58	4°♊32'37		
evening set	-7606 Jul 13 j 00:12	8°♊01'01		
conjunction	-7606 Jul 28 j 21:43	9°♊00'52	0°43'56	
minimum elong	-7606 Jul 28 j 21:43	9°♊00'52	0°44'24	
max. Earth dist.	-7606 Jul 28 j 09:01	8°♊58'52	19.45845 AU	
morning rise	-7606 Aug 13 j 16:00	10°♊00'15		
retrograde	-7606 Nov 12 j 17:44	13°♊20'42		
opposition	-7605 Jan 26 j 08:09	11°♊19'28	0°50'43	
min. Earth dist.	-7605 Jan 26 j 18:05	11°♊18'25	17.48132 AU	
direct	-7605 Apr 13 j 16:17	9°♊14'39		
evening set	-7605 Jul 17 j 22:22	12°♊42'11		
conjunction	-7605 Aug 02 j 18:52	13°♊41'46	0°46'58	
minimum elong	-7605 Aug 02 j 18:52	13°♊41'46	0°47'28	
max. Earth dist.	-7605 Aug 02 j 09:36	13°♊40'19	19.50483 AU	
morning rise	-7605 Aug 18 j 12:02	14°♊40'53		
retrograde	-7605 Nov 17 j 15:14	18°♊01'01		
opposition	-7604 Jan 31 j 10:49	15°♊59'56	0°53'55	
min. Earth dist.	-7604 Jan 31 j 18:48	15°♊59'06	17.52950 AU	
direct	-7604 Apr 17 j 19:29	13°♊55'31		
evening set	-7604 Jul 21 j 19:50	17°♊22'05		
conjunction	-7604 Aug 06 j 15:01	18°♊21'22	0°49'41	
minimum elong	-7604 Aug 06 j 15:00	18°♊21'22	0°50'10	
max. Earth dist.	-7604 Aug 06 j 07:07	18°♊20'07	19.55477 AU	
morning rise	-7604 Aug 22 j 07:25	19°♊20'14		
retrograde	-7604 Nov 21 j 13:02	22°♊40'00		
opposition	-7603 Feb 04 j 13:11	20°♊39'03	0°56'44	
min. Earth dist.	-7603 Feb 04 j 18:51	20°♊38'27	17.58111 AU	
direct	-7603 Apr 22 j 21:15	18°♊35'00		
evening set	-7603 Jul 26 j 16:19	22°♊00'32		
conjunction	-7603 Aug 11 j 10:35	22°♊59'31	0°52'03	
minimum elong	-7603 Aug 11 j 10:35	22°♊59'31	0°52'34	
max. Earth dist.	-7603 Aug 11 j 05:57	22°♊58'48	19.60782 AU	
morning rise	-7603 Aug 27 j 02:04	23°♊58'07		
retrograde	-7603 Nov 26 j 10:10	27°♊17'28		
opposition	-7602 Feb 09 j 15:06	25°♊16'39	0°59'10	
min. Earth dist.	-7602 Feb 09 j 18:23	25°♊16'18	17.63542 AU	
direct	-7602 Apr 27 j 23:27	23°♊12'59		

Attention, astronomical year style is used: The year -7602 in astronomical counting style is the year 7603 BCE in historical counting style.

evening set	-7602 Jul 31 j 11:55	26°♊37'23	
conjunction	-7602 Aug 16 j 05:07	27°♊36'04	0°54'04
minimum elong	-7602 Aug 16 j 05:06	27°♊36'04	0°54'35
max. Earth dist.	-7602 Aug 16 j 02:00	27°♊35'35	19.66334 AU
morning rise	-7602 Aug 31 j 20:03	28°♊34'24	
	-7602 Sep 25 j 17:00	0°♋	
retrograde	-7602 Dec 01 j 06:31	1°♋53'18	
	-7601 Feb 11 j 17:09	30°℞♊	
opposition	-7601 Feb 14 j 16:32	29°♊52'34	1°01'12
min. Earth dist.	-7601 Feb 14 j 17:54	29°♊52'26	17.69212 AU
direct	-7601 May 02 j 22:58	27°♊49'16	
	-7601 Jul 15 j 10:14	0°♋	
evening set	-7601 Aug 05 j 06:30	1°♋12'29	
conjunction	-7601 Aug 20 j 22:55	2°♋10'52	0°55'44
minimum elong	-7601 Aug 20 j 22:54	2°♋10'52	0°56'15
max. Earth dist.	-7601 Aug 20 j 22:48	2°♋10'51	19.72106 AU
morning rise	-7601 Sep 05 j 13:08	3°♋08'56	
retrograde	-7601 Dec 06 j 03:14	6°♋27'20	
opposition	-7600 Feb 19 j 17:15	4°♋26'41	1°02'49
min. Earth dist.	-7600 Feb 19 j 15:52	4°♋26'49	17.75073 AU
direct	-7600 May 07 j 00:22	2°♋23'44	
evening set	-7600 Aug 09 j 00:12	5°♋45'42	
conjunction	-7600 Aug 24 j 15:42	6°♋43'46	0°57'01
minimum elong	-7600 Aug 24 j 15:42	6°♋43'46	0°57'33
max. Earth dist.	-7600 Aug 24 j 17:30	6°♋44'03	19.78071 AU
morning rise	-7600 Sep 09 j 05:30	7°♋41'35	
retrograde	-7600 Dec 09 j 21:52	10°♋59'28	
opposition	-7599 Feb 23 j 17:33	8°♋58'51	1°04'02
min. Earth dist.	-7599 Feb 23 j 14:27	8°♋59'10	17.81147 AU
direct	-7599 May 11 j 22:08	6°♋56'15	
evening set	-7599 Aug 13 j 16:38	10°♋16'55	
conjunction	-7599 Aug 29 j 07:31	11°♋14'40	0°57'57
minimum elong	-7599 Aug 29 j 07:31	11°♋14'40	0°58'28
max. Earth dist.	-7599 Aug 29 j 12:16	11°♋15'24	19.84248 AU
morning rise	-7599 Sep 13 j 20:53	12°♋12'13	
retrograde	-7599 Dec 14 j 17:55	15°♋29'33	
opposition	-7598 Feb 28 j 16:59	13°♋28'59	1°04'51
min. Earth dist.	-7598 Feb 28 j 10:41	13°♋29'38	17.87417 AU
direct	-7598 May 16 j 22:22	11°♋26'44	
evening set	-7598 Aug 18 j 08:17	14°♋46'03	
conjunction	-7598 Sep 02 j 22:28	15°♋43'31	0°58'32
minimum elong	-7598 Sep 02 j 22:28	15°♋43'31	0°59'03
max. Earth dist.	-7598 Sep 03 j 05:30	15°♋44'36	19.90618 AU
morning rise	-7598 Sep 18 j 11:34	16°♋40'49	
retrograde	-7598 Dec 19 j 10:36	19°♋57'34	
opposition	-7597 Mar 05 j 15:37	17°♋57'03	1°05'16
min. Earth dist.	-7597 Mar 05 j 07:47	17°♋57'51	17.93906 AU
direct	-7597 May 21 j 18:29	15°♋55'09	
evening set	-7597 Aug 22 j 22:53	19°♋13'09	
conjunction	-7597 Sep 07 j 12:35	20°♋10'19	0°58'45
minimum elong	-7597 Sep 07 j 12:35	20°♋10'19	0°59'14
max. Earth dist.	-7597 Sep 07 j 22:16	20°♋11'48	19.97213 AU
morning rise	-7597 Sep 23 j 01:25	21°♋07'21	
retrograde	-7597 Dec 24 j 05:02	24°♋23'32	
opposition	-7596 Mar 09 j 13:31	22°♋23'05	1°05'18
min. Earth dist.	-7596 Mar 09 j 02:11	22°♋24'14	18.00599 AU
direct	-7596 May 25 j 17:17	20°♋21'35	
evening set	-7596 Aug 26 j 12:30	23°♋38'14	
conjunction	-7596 Sep 11 j 01:43	24°♋35'07	0°58'37
minimum elong	-7596 Sep 11 j 01:44	24°♋35'07	0°59'07
max. Earth dist.	-7596 Sep 11 j 13:58	24°♋36'59	20.04000 AU
morning rise	-7596 Sep 26 j 14:26	25°♋31'54	
retrograde	-7596 Dec 27 j 20:33	28°♋47'32	
opposition	-7595 Mar 14 j 10:52	26°♋47'10	1°04'57
min. Earth dist.	-7595 Mar 13 j 22:04	26°♋48'28	18.07487 AU
direct	-7595 May 30 j 11:36	24°♋46'05	
evening set	-7595 Aug 31 j 01:20	28°♋01'24	
conjunction	-7595 Sep 15 j 14:14	28°♋58'00	0°58'10
minimum elong	-7595 Sep 15 j 14:14	28°♋58'00	0°58'38
max. Earth dist.	-7595 Sep 16 j 04:46	29°♋00'13	20.10970 AU
morning rise	-7595 Oct 01 j 02:56	29°♋54'34	
	-7595 Oct 02 j 15:31	0°♌	
retrograde	-7594 Jan 01 j 13:29	3°♌09'38	
opposition	-7594 Mar 19 j 07:07	1°♌09'22	1°04'13
min. Earth dist.	-7594 Mar 18 j 14:57	1°♌11'01	18.14516 AU
	-7594 Apr 18 j 10:34	30°℞♋	
direct	-7594 Jun 04 j 08:01	29°♋08'44	
	-7594 Jul 19 j 04:11	0°♌	
evening set	-7594 Sep 04 j 13:15	2°♌22'44	
conjunction	-7594 Sep 20 j 01:57	3°♌19'04	0°57'22
minimum elong	-7594 Sep 20 j 01:57	3°♌19'04	0°57'50
max. Earth dist.	-7594 Sep 20 j 18:58	3°♌21'39	20.18040 AU
morning rise	-7594 Oct 05 j 14:44	4°♌15'24	
retrograde	-7593 Jan 06 j 03:49	7°♌29'56	
min. Earth dist.	-7593 Mar 23 j 09:38	5°♌31'33	18.21619 AU
opposition	-7593 Mar 24 j 02:51	5°♌29'48	1°03'08
direct	-7593 Jun 09 j 00:38	3°♌29'36	
evening set	-7593 Sep 09 j 00:25	6°♌42'18	
conjunction	-7593 Sep 24 j 12:55	7°♌38'23	0°56'15
minimum elong	-7593 Sep 24 j 12:55	7°♌38'23	0°56'42
max. Earth dist.	-7593 Sep 25 j 07:42	7°♌41'13	20.25153 AU
morning rise	-7593 Oct 10 j 01:53	8°♌34'30	
retrograde	-7592 Jan 10 j 19:32	11°♌48'29	
opposition	-7592 Mar 27 j 21:41	9°♌48'30	1°01'41
min. Earth dist.	-7592 Mar 27 j 01:29	9°♌50'33	18.28718 AU
direct	-7592 Jun 12 j 18:31	7°♌48'44	
evening set	-7592 Sep 12 j 10:55	11°♌00'10	
conjunction	-7592 Sep 27 j 23:22	11°♌55'59	0°54'49
minimum elong	-7592 Sep 27 j 23:22	11°♌56'00	0°55'14
max. Earth dist.	-7592 Sep 28 j 20:29	11°♌59'11	20.32216 AU
morning rise	-7592 Oct 13 j 12:31	12°♌51'55	
	-7592 Nov 24 j 01:21	15°♌	
retrograde	-7591 Jan 14 j 08:57	16°♌05'22	
	-7591 Mar 09 j 09:09	15°℞♌	
opposition	-7591 Apr 01 j 15:59	14°♌05'30	0°59'54
min. Earth dist.	-7591 Mar 31 j 19:05	14°♌07'37	18.35741 AU
direct	-7591 Jun 17 j 09:28	12°♌06'11	
	-7591 Sep 12 j 04:20	15°♌	
evening set	-7591 Sep 16 j 20:41	15°♌16'20	
conjunction	-7591 Oct 02 j 09:09	16°♌11'56	0°53'05
minimum elong	-7591 Oct 02 j 09:09	16°♌11'56	0°53'29
max. Earth dist.	-7591 Oct 03 j 07:26	16°♌15'17	20.39174 AU
morning rise	-7591 Oct 17 j 22:42	17°♌07'41	
retrograde	-7590 Jan 18 j 23:36	20°♌20'36	
min. Earth dist.	-7590 Apr 05 j 09:56	18°♌23'12	18.42609 AU
opposition	-7590 Apr 06 j 09:20	18°♌20'51	0°57'48
direct	-7590 Jun 22 j 01:16	16°♌21'55	
evening set	-7590 Sep 21 j 05:56	19°♌30'51	
conjunction	-7590 Oct 06 j 18:32	20°♌26'14	0°51'05
minimum elong	-7590 Oct 06 j 18:32	20°♌26'14	0°51'26
max. Earth dist.	-7590 Oct 07 j 18:45	20°♌29'52	20.45921 AU

Attention, astronomical year style is used: The year -7590 in astronomical counting style is the year 7591 BCE in historical counting style.

morning rise	-7590 Oct 22 j 08:24	21°♌21'48	
retrograde	-7589 Jan 23 j 11:51	24°♌34'12	
min. Earth dist.	-7589 Apr 10 j 02:14	22°♌36'55	18.49238 AU
opposition	-7589 Apr 11 j 01:54	22°♌34'32	0°55'23
direct	-7589 Jun 26 j 14:38	20°♌35'58	
evening set	-7589 Sep 25 j 14:34	23°♌43'43	
conjunction	-7589 Oct 11 j 03:18	24°♌38'54	0°48'48
minimum elong	-7589 Oct 11 j 03:18	24°♌38'54	0°49'08
max. Earth dist.	-7589 Oct 12 j 04:07	24°♌42'36	20.52419 AU
morning rise	-7589 Oct 26 j 17:43	25°♌34'18	
retrograde	-7588 Jan 28 j 01:30	28°♌46'10	
opposition	-7588 Apr 14 j 17:45	26°♌46'34	0°52'42
min. Earth dist.	-7588 Apr 13 j 15:59	26°♌49'10	18.55587 AU
direct	-7588 Jun 30 j 04:44	24°♌48'20	
evening set	-7588 Sep 28 j 22:26	27°♌54'55	
conjunction	-7588 Oct 14 j 11:31	28°♌49'54	0°46'16
minimum elong	-7588 Oct 14 j 11:31	28°♌49'54	0°46'35
max. Earth dist.	-7588 Oct 15 j 14:08	28°♌53'52	20.58600 AU
morning rise	-7588 Oct 30 j 02:25	29°♌45'10	
	-7588 Nov 03 j 09:39	0°♍	
retrograde	-7587 Jan 31 j 12:29	2°♍56'31	
min. Earth dist.	-7587 Apr 18 j 07:01	0°♍59'34	18.61607 AU
opposition	-7587 Apr 19 j 08:54	0°♍56'57	0°49'45
	-7587 May 13 j 23:57	30°℞♌	
direct	-7587 Jul 04 j 16:39	28°♌59'01	
	-7587 Aug 22 j 23:08	0°♍	
evening set	-7587 Oct 03 j 05:50	2°♍04'28	
conjunction	-7587 Oct 18 j 19:14	2°♍59'17	0°43'31
minimum elong	-7587 Oct 18 j 19:15	2°♍59'17	0°43'48
max. Earth dist.	-7587 Oct 19 j 22:09	3°♍03'15	20.64461 AU
morning rise	-7587 Nov 03 j 10:53	3°♍54'24	
retrograde	-7586 Feb 05 j 00:58	7°♍05'15	
opposition	-7586 Apr 23 j 22:55	5°♍05'41	0°46'34
min. Earth dist.	-7586 Apr 22 j 19:24	5°♍08'26	18.67303 AU
direct	-7586 Jul 09 j 05:01	3°♍07'59	
evening set	-7586 Oct 07 j 12:34	6°♍12'21	
conjunction	-7586 Oct 23 j 02:29	7°♍07'01	0°40'33
minimum elong	-7586 Oct 23 j 02:29	7°♍07'01	0°40'49
max. Earth dist.	-7586 Oct 24 j 07:08	7°♍11'14	20.69984 AU
morning rise	-7586 Nov 07 j 18:44	8°♍02'02	
retrograde	-7585 Feb 09 j 10:37	11°♍12'22	
min. Earth dist.	-7585 Apr 27 j 08:43	9°♍15'34	18.72671 AU
opposition	-7585 Apr 28 j 12:18	9°♍12'48	0°43'09
direct	-7585 Jul 13 j 15:17	7°♍15'20	
evening set	-7585 Oct 11 j 18:41	10°♍18'40	
conjunction	-7585 Oct 27 j 09:00	11°♍13'11	0°37'25
minimum elong	-7585 Oct 27 j 09:01	11°♍13'11	0°37'37
max. Earth dist.	-7585 Oct 28 j 13:56	11°♍17'26	20.75209 AU
morning rise	-7585 Nov 12 j 02:05	12°♍08'06	
retrograde	-7584 Feb 13 j 21:53	15°♍17'59	
min. Earth dist.	-7584 Apr 30 j 19:45	13°♍21'18	18.77757 AU
opposition	-7584 May 02 j 00:51	13°♍18'23	0°39'33
direct	-7584 Jul 17 j 01:47	11°♍21'08	
evening set	-7584 Oct 15 j 00:24	14°♍23'30	
conjunction	-7584 Oct 30 j 15:21	15°♍17'55	0°34'06
minimum elong	-7584 Oct 30 j 15:21	15°♍17'55	0°34'17
max. Earth dist.	-7584 Oct 31 j 22:04	15°♍22'24	20.80149 AU
morning rise	-7584 Nov 15 j 09:06	16°♍12'43	
retrograde	-7583 Feb 17 j 06:57	19°♍22'11	
min. Earth dist.	-7583 May 05 j 07:24	17°♍25'31	18.82568 AU
opposition	-7583 May 06 j 12:38	17°♍22'35	0°35'47
direct	-7583 Jul 21 j 10:47	15°♍25'33	
evening set	-7583 Oct 19 j 05:45	18°♍27'02	
conjunction	-7583 Nov 03 j 21:15	19°♍21'20	0°30'38
minimum elong	-7583 Nov 03 j 21:16	19°♍21'20	0°30'46
max. Earth dist.	-7583 Nov 05 j 03:56	19°♍25'48	20.84832 AU
morning rise	-7583 Nov 19 j 15:59	20°♍16'05	
retrograde	-7582 Feb 21 j 17:29	23°♍25'09	
opposition	-7582 May 10 j 23:40	21°♍25'34	0°31'52
min. Earth dist.	-7582 May 09 j 17:15	21°♍28'36	18.87118 AU
direct	-7582 Jul 25 j 18:56	19°♍28'45	
evening set	-7582 Oct 23 j 10:43	22°♍29'26	
conjunction	-7582 Nov 08 j 02:58	23°♍23'39	0°27'02
minimum elong	-7582 Nov 08 j 02:58	23°♍23'39	0°27'09
max. Earth dist.	-7582 Nov 09 j 11:11	23°♍28'19	20.89229 AU
morning rise	-7582 Nov 23 j 22:26	24°♍18'20	
retrograde	-7581 Feb 26 j 02:00	27°♍27'03	
min. Earth dist.	-7581 May 14 j 03:37	25°♍30'33	18.91369 AU
opposition	-7581 May 15 j 10:00	25°♍27'30	0°27'48
direct	-7581 Jul 30 j 03:09	23°♍30'55	
evening set	-7581 Oct 27 j 15:30	26°♍30'52	
conjunction	-7581 Nov 12 j 08:24	27°♍25'01	0°23'19
minimum elong	-7581 Nov 12 j 08:24	27°♍25'01	0°23'24
max. Earth dist.	-7581 Nov 13 j 16:13	27°♍29'37	20.93340 AU
morning rise	-7581 Nov 28 j 04:54	28°♍19'40	
	-7581 Dec 30 j 17:15	0°♎	
retrograde	-7580 Mar 01 j 12:25	1°♎28'05	
	-7580 May 05 j 14:06	30°℞♍	
opposition	-7580 May 18 j 19:50	29°♍28'34	0°23'36
min. Earth dist.	-7580 May 17 j 12:41	29°♍31'42	18.95320 AU
direct	-7580 Aug 02 j 09:35	27°♍32'12	
	-7580 Oct 21 j 07:46	0°♎	
evening set	-7580 Oct 30 j 19:59	0°♎31'30	
conjunction	-7580 Nov 15 j 13:46	1°♎25'37	0°19'29
minimum elong	-7580 Nov 15 j 13:46	1°♎25'37	0°19'32
max. Earth dist.	-7580 Nov 16 j 22:49	1°♎30'23	20.97110 AU
morning rise	-7580 Dec 01 j 11:07	2°♎20'14	
retrograde	-7579 Mar 05 j 20:31	5°♎28'23	
min. Earth dist.	-7579 May 21 j 22:19	3°♎32'02	18.98902 AU
opposition	-7579 May 23 j 05:08	3°♎28'56	0°19'19
direct	-7579 Aug 06 j 17:04	1°♎32'46	
evening set	-7579 Nov 04 j 00:35	4°♎31'30	
conjunction	-7579 Nov 19 j 19:06	5°♎25'35	0°15'35
minimum elong	-7579 Nov 19 j 19:06	5°♎25'35	0°15'36
behind sun begin	-7579 Nov 19 j 17:21	5°♎25'20	
behind sun end	-7579 Nov 19 j 20:52	5°♎25'49	
max. Earth dist.	-7579 Nov 21 j 03:16	5°♎30'12	21.00503 AU
morning rise	-7579 Dec 05 j 17:34	6°♎20'12	
retrograde	-7578 Mar 10 j 06:48	9°♎28'07	
min. Earth dist.	-7578 May 26 j 06:52	7°♎31'48	19.02085 AU
opposition	-7578 May 27 j 13:45	7°♎28'43	0°14'56
direct	-7578 Aug 10 j 22:55	5°♎32'42	
evening set	-7578 Nov 08 j 05:07	8°♎30'58	
conjunction	-7578 Nov 24 j 00:34	9°♎25'01	0°11'36
minimum elong	-7578 Nov 24 j 00:34	9°♎25'01	0°11'34
behind sun begin	-7578 Nov 23 j 19:49	9°♎24'22	
behind sun end	-7578 Nov 24 j 05:19	9°♎25'41	
max. Earth dist.	-7578 Nov 25 j 09:28	9°♎29'45	21.03451 AU
morning rise	-7578 Dec 09 j 23:53	10°♎19'39	
retrograde	-7577 Mar 14 j 14:24	13°♎27'22	
opposition	-7577 May 31 j 22:03	11°♎28'00	0°10'30
min. Earth dist.	-7577 May 30 j 15:53	11°♎31'02	19.04792 AU

Attention, astronomical year style is used: The year -7577 in astronomical counting style is the year 7578 BCE in historical counting style.

direct	-7577 Aug 15 j 05:13	9°♎32'10	
evening set	-7577 Nov 12 j 09:35	12°♎29'58	
conjunction	-7577 Nov 28 j 05:51	13°♎24'02	0°07'35
minimum elong	-7577 Nov 28 j 05:50	13°♎24'02	0°07'32
behind sun begin	-7577 Nov 27 j 23:50	13°♎23'12	
behind sun end	-7577 Nov 28 j 11:50	13°♎24'52	
max. Earth dist.	-7577 Nov 29 j 13:24	13°♎28'34	21.05917 AU
morning rise	-7577 Dec 14 j 06:17	14°♎18'41	
retrograde	-7576 Mar 18 j 00:22	17°♎26'14	
min. Earth dist.	-7576 Jun 03 j 00:15	15°♎29'52	19.06997 AU
opposition	-7576 Jun 04 j 06:01	15°♎26'53	0°06'01
direct	-7576 Aug 18 j 11:03	13°♎31'07	
evening set	-7576 Nov 15 j 14:15	16°♎28'35	
conjunction	-7576 Dec 01 j 11:32	17°♎22'40	0°03'32
minimum elong	-7576 Dec 01 j 11:32	17°♎22'40	0°03'26
behind sun begin	-7576 Dec 01 j 04:59	17°♎21'46	
behind sun end	-7576 Dec 01 j 18:06	17°♎23'35	
max. Earth dist.	-7576 Dec 02 j 19:23	17°♎27'13	21.07837 AU
morning rise	-7576 Dec 17 j 12:54	18°♎17'21	
retrograde	-7575 Mar 22 j 07:29	21°♎24'45	
min. Earth dist.	-7575 Jun 07 j 08:44	19°♎28'16	19.08630 AU
opposition	-7575 Jun 08 j 13:27	19°♎25'23	0°01'31
direct	-7575 Aug 22 j 16:31	17°♎29'40	
desc. node	-7575 Oct 09 j 07:13	18°♎26'21	
evening set	-7575 Nov 19 j 19:04	20°♎26'50	
conjunction	-7575 Dec 05 j 17:14	21°♎20'57	-0°00'38
minimum elong	-7575 Dec 05 j 17:15	21°♎20'57	0°00'46
behind sun begin	-7575 Dec 05 j 10:39	21°♎20'02	
behind sun end	-7575 Dec 05 j 23:50	21°♎21'52	
max. Earth dist.	-7575 Dec 06 j 23:14	21°♎25'14	21.09190 AU
morning rise	-7575 Dec 21 j 19:48	22°♎15'41	
retrograde	-7574 Mar 26 j 16:37	25°♎22'57	
opposition	-7574 Jun 12 j 20:36	23°♎23'31	-0°02'59
min. Earth dist.	-7574 Jun 11 j 16:46	23°♎26'19	19.09690 AU
direct	-7574 Aug 26 j 22:10	21°♎27'47	
evening set	-7574 Nov 23 j 23:47	24°♎24'42	
conjunction	-7574 Dec 09 j 23:02	25°♎18'53	-0°04'44
minimum elong	-7574 Dec 09 j 23:02	25°♎18'53	0°04'54
behind sun begin	-7574 Dec 09 j 16:35	25°♎18'00	
behind sun end	-7574 Dec 10 j 05:29	25°♎19'47	
max. Earth dist.	-7574 Dec 11 j 05:04	25°♎23'10	21.09955 AU
morning rise	-7574 Dec 26 j 02:30	26°♎13'40	
retrograde	-7573 Mar 30 j 23:26	29°♎20'50	
min. Earth dist.	-7573 Jun 16 j 00:35	27°♎24'00	19.10168 AU
opposition	-7573 Jun 17 j 03:19	27°♎21'19	-0°07'28
direct	-7573 Aug 31 j 03:21	25°♎25'32	
evening set	-7573 Nov 28 j 04:44	28°♎22'16	
conjunction	-7573 Dec 14 j 04:54	29°♎16'31	-0°08'45
minimum elong	-7573 Dec 14 j 04:54	29°♎16'30	0°08'57
behind sun begin	-7573 Dec 13 j 23:13	29°♎15'43	
behind sun end	-7573 Dec 14 j 10:34	29°♎17'18	
max. Earth dist.	-7573 Dec 15 j 08:59	29°♎20'30	21.10181 AU
	-7573 Dec 26 j 24:00	0°♏	
morning rise	-7573 Dec 30 j 09:33	0°♏11'22	
retrograde	-7572 Apr 03 j 07:33	3°♏18'27	
min. Earth dist.	-7572 Jun 19 j 08:01	1°♏21'24	19.10140 AU
opposition	-7572 Jun 20 j 09:44	1°♏18'49	-0°11'54
	-7572 Jul 26 j 04:36	30°℞♎	
direct	-7572 Sep 03 j 08:22	29°♎22'55	
	-7572 Oct 11 j 12:44	0°♏	
evening set	-7572 Dec 01 j 09:43	2°♏19'34	
conjunction	-7572 Dec 17 j 11:02	3°♏13'54	-0°12'43
minimum elong	-7572 Dec 17 j 11:02	3°♏13'54	0°12'57
behind sun begin	-7572 Dec 17 j 07:00	3°♏13'20	
behind sun end	-7572 Dec 17 j 15:04	3°♏14'27	
max. Earth dist.	-7572 Dec 18 j 15:09	3°♏17'53	21.09903 AU
morning rise	-7571 Jan 02 j 16:38	4°♏08'51	
retrograde	-7571 Apr 07 j 14:53	7°♏15'51	
opposition	-7571 Jun 24 j 15:47	5°♏16'07	-0°16'16
min. Earth dist.	-7571 Jun 23 j 15:09	5°♏18'36	19.09626 AU
direct	-7571 Sep 07 j 13:19	3°♏20'06	
evening set	-7571 Dec 05 j 15:06	6°♏16'44	
conjunction	-7571 Dec 21 j 17:20	7°♏11'10	-0°16'37
minimum elong	-7571 Dec 21 j 17:20	7°♏11'10	0°16'54
max. Earth dist.	-7571 Dec 22 j 19:21	7°♏14'52	21.09179 AU
morning rise	-7570 Jan 07 j 00:05	8°♏06'13	
retrograde	-7570 Apr 11 j 22:23	11°♏13'13	
opposition	-7570 Jun 28 j 21:29	9°♏13'22	-0°20'33
min. Earth dist.	-7570 Jun 27 j 22:01	9°♏15'45	19.08699 AU
direct	-7570 Sep 11 j 17:28	7°♏17'13	
evening set	-7570 Dec 09 j 20:36	10°♏13'56	
conjunction	-7570 Dec 25 j 23:58	11°♏08'29	-0°20'27
minimum elong	-7570 Dec 25 j 23:58	11°♏08'29	0°20'44
max. Earth dist.	-7570 Dec 27 j 01:55	11°♏12'10	21.08048 AU
morning rise	-7569 Jan 11 j 07:36	12°♏03'39	
	-7569 Mar 26 j 04:27	15°♏	
retrograde	-7569 Apr 16 j 06:09	15°♏10'41	
	-7569 May 07 j 10:28	15°℞♏	
min. Earth dist.	-7569 Jul 02 j 04:36	13°♏13'02	19.07377 AU
opposition	-7569 Jul 03 j 03:05	13°♏10'45	-0°24'44
direct	-7569 Sep 15 j 22:15	11°♏14'28	
evening set	-7569 Dec 14 j 02:24	14°♏11'21	
	-7569 Dec 28 j 12:13	15°♏	
conjunction	-7569 Dec 30 j 06:43	15°♏06'02	-0°24'11
minimum elong	-7569 Dec 30 j 06:43	15°♏06'02	0°24'31
max. Earth dist.	-7569 Dec 31 j 06:29	15°♏09'24	21.06554 AU
morning rise	-7568 Jan 15 j 15:31	16°♏01'20	
retrograde	-7568 Apr 19 j 14:10	19°♏08'29	
min. Earth dist.	-7568 Jul 05 j 11:29	17°♏10'37	19.05703 AU
opposition	-7568 Jul 06 j 08:40	17°♏08'28	-0°28'49
direct	-7568 Sep 19 j 02:03	15°♏12'02	
evening set	-7568 Dec 17 j 08:42	18°♏09'12	
conjunction	-7567 Jan 02 j 14:12	19°♏04'02	-0°27'49
minimum elong	-7567 Jan 02 j 14:12	19°♏04'02	0°28'09
max. Earth dist.	-7567 Jan 03 j 13:41	19°♏07'22	21.04694 AU
morning rise	-7567 Jan 18 j 23:52	19°♏59'28	
retrograde	-7567 Apr 23 j 22:14	23°♏06'45	
opposition	-7567 Jul 10 j 14:00	21°♏06'42	-0°32'46
min. Earth dist.	-7567 Jul 09 j 18:00	21°♏08'44	19.03658 AU
direct	-7567 Sep 23 j 06:51	19°♏10'09	
evening set	-7567 Dec 21 j 15:36	22°♏07'40	
conjunction	-7566 Jan 06 j 22:02	23°♏02'40	-0°31'19
minimum elong	-7566 Jan 06 j 22:02	23°♏02'40	0°31'42
max. Earth dist.	-7566 Jan 07 j 18:57	23°♏05'38	21.02479 AU
morning rise	-7566 Jan 23 j 08:48	23°♏58'15	
retrograde	-7566 Apr 28 j 07:16	27°♏05'45	
opposition	-7566 Jul 14 j 19:32	25°♏05'39	-0°36'34
min. Earth dist.	-7566 Jul 14 j 01:10	25°♏07'32	19.01257 AU
direct	-7566 Sep 27 j 10:47	23°♏08'57	
evening set	-7566 Dec 25 j 22:48	26°♏06'55	
conjunction	-7565 Jan 11 j 06:23	27°♏02'06	-0°34'42
minimum elong	-7565 Jan 11 j 06:23	27°♏02'06	0°35'06

Attention, astronomical year style is used: The year -7565 in astronomical counting style is the year 7566 BCE in historical counting style.

max. Earth dist.	-7565 Jan 12 j 02:49	27°♏05'00	20.99882 AU
morning rise	-7565 Jan 27 j 17:55	27°♏57'52	
	-7565 Mar 10 j 14:41	0°♐	
retrograde	-7565 May 02 j 15:39	1°♐05'35	
	-7565 Jun 25 j 23:49	30°℞♏	
min. Earth dist.	-7565 Jul 18 j 08:06	29°♏07'14	18.98459 AU
opposition	-7565 Jul 19 j 01:07	29°♏05'29	-0°40'13
direct	-7565 Oct 01 j 15:48	27°♏08'39	
	-7565 Dec 28 j 03:13	0°♐	
evening set	-7565 Dec 30 j 06:53	0°♐07'08	
conjunction	-7564 Jan 15 j 15:22	1°♐02'30	-0°37'55
minimum elong	-7564 Jan 15 j 15:22	1°♐02'30	0°38'19
max. Earth dist.	-7564 Jan 16 j 08:54	1°♐05'00	20.96894 AU
morning rise	-7564 Feb 01 j 03:58	1°♐58'27	
retrograde	-7564 May 06 j 01:30	5°♐06'28	
opposition	-7564 Jul 22 j 06:48	3°♐06'20	-0°43'41
min. Earth dist.	-7564 Jul 21 j 15:53	3°♐07'52	18.95262 AU
direct	-7564 Oct 04 j 20:22	1°♐09'18	
evening set	-7563 Jan 02 j 15:36	4°♐08'25	
conjunction	-7563 Jan 19 j 01:15	5°♐04'00	-0°40'57
minimum elong	-7563 Jan 19 j 01:15	5°♐04'00	0°41'24
max. Earth dist.	-7563 Jan 19 j 17:47	5°♐06'21	20.93468 AU
morning rise	-7563 Feb 04 j 14:34	6°♐00'08	
retrograde	-7563 May 10 j 10:45	9°♐08'27	
opposition	-7563 Jul 26 j 12:43	7°♐08'18	-0°46'57
min. Earth dist.	-7563 Jul 25 j 23:31	7°♐09'39	18.91598 AU
direct	-7563 Oct 09 j 02:00	5°♐11'03	
evening set	-7562 Jan 07 j 01:11	8°♐10'50	
conjunction	-7562 Jan 23 j 11:39	9°♐06'38	-0°43'48
minimum elong	-7562 Jan 23 j 11:39	9°♐06'38	0°44'15
max. Earth dist.	-7562 Jan 24 j 00:44	9°♐08'30	20.89571 AU
morning rise	-7562 Feb 09 j 01:56	10°♐02'58	
retrograde	-7562 May 14 j 20:55	13°♐11'37	
opposition	-7562 Jul 30 j 18:51	11°♐11'24	-0°50'00
min. Earth dist.	-7562 Jul 30 j 08:07	11°♐12'31	18.87462 AU
direct	-7562 Oct 13 j 07:26	9°♐13'54	
evening set	-7561 Jan 11 j 11:18	12°♐14'25	
conjunction	-7561 Jan 27 j 22:53	13°♐10'27	-0°46'27
minimum elong	-7561 Jan 27 j 22:53	13°♐10'27	0°46'55
max. Earth dist.	-7561 Jan 28 j 10:38	13°♐12'08	20.85188 AU
morning rise	-7561 Feb 13 j 13:46	14°♐06'59	
retrograde	-7561 May 19 j 07:14	17°♐15'58	
opposition	-7561 Aug 04 j 01:15	15°♐15'40	-0°52'49
min. Earth dist.	-7561 Aug 03 j 16:16	15°♐16'36	18.82834 AU
direct	-7561 Oct 17 j 14:05	13°♐17'51	
evening set	-7560 Jan 15 j 22:11	16°♐19'08	
conjunction	-7560 Feb 01 j 10:36	17°♐15'25	-0°48'52
minimum elong	-7560 Feb 01 j 10:36	17°♐15'25	0°49'20
max. Earth dist.	-7560 Feb 01 j 18:41	17°♐16'34	20.80340 AU
morning rise	-7560 Feb 18 j 02:26	18°♐12'10	
retrograde	-7560 May 22 j 17:55	21°♐21'31	
opposition	-7560 Aug 07 j 08:00	19°♐21'05	-0°55'22
min. Earth dist.	-7560 Aug 07 j 01:39	19°♐21'44	18.77764 AU
direct	-7560 Oct 20 j 20:27	17°♐22'54	
evening set	-7559 Jan 19 j 09:47	20°♐25'02	
conjunction	-7559 Feb 04 j 23:17	21°♐21'34	-0°51'02
minimum elong	-7559 Feb 04 j 23:17	21°♐21'33	0°51'32
max. Earth dist.	-7559 Feb 05 j 06:00	21°♐22'31	20.75059 AU
morning rise	-7559 Feb 21 j 15:38	22°♐18'32	
retrograde	-7559 May 27 j 05:09	25°♐28'13	
opposition	-7559 Aug 11 j 14:48	23°♐27'39	-0°57'39
min. Earth dist.	-7559 Aug 11 j 10:10	23°♐28'08	18.72286 AU
direct	-7559 Oct 25 j 04:05	21°♐29'05	
evening set	-7558 Jan 23 j 22:15	24°♐32'06	
conjunction	-7558 Feb 09 j 12:27	25°♐28'53	-0°52'57
minimum elong	-7558 Feb 09 j 12:27	25°♐28'53	0°53'28
max. Earth dist.	-7558 Feb 09 j 15:33	25°♐29'20	20.69419 AU
morning rise	-7558 Feb 26 j 05:37	26°♐26'05	
retrograde	-7558 May 31 j 16:38	29°♐36'10	
opposition	-7558 Aug 15 j 22:09	27°♐35'26	-0°59'38
min. Earth dist.	-7558 Aug 15 j 20:04	27°♐35'39	18.66498 AU
direct	-7558 Oct 29 j 11:25	25°♐36'27	
evening set	-7557 Jan 28 j 11:05	28°♐40'25	
conjunction	-7557 Feb 14 j 02:18	29°♐37'28	-0°54'37
minimum elong	-7557 Feb 14 j 02:18	29°♐37'28	0°55'07
max. Earth dist.	-7557 Feb 14 j 04:17	29°♐37'45	20.63492 AU
	-7557 Feb 20 j 14:38	0°♑	
morning rise	-7557 Mar 02 j 19:51	0°♑34'54	
retrograde	-7557 Jun 05 j 04:53	3°♑45'23	
opposition	-7557 Aug 20 j 05:46	1°♑44'31	-1°01'20
min. Earth dist.	-7557 Aug 20 j 05:03	1°♑44'35	18.60451 AU
	-7557 Oct 09 j 19:14	30°℞♐	
direct	-7557 Nov 02 j 19:42	29°♐45'07	
	-7557 Nov 26 j 15:38	0°♑	
evening set	-7556 Feb 02 j 01:03	2°♑50'05	
conjunction	-7556 Feb 18 j 16:53	3°♑47'25	-0°55'59
minimum elong	-7556 Feb 18 j 16:53	3°♑47'25	0°56'30
max. Earth dist.	-7556 Feb 18 j 15:23	3°♑47'12	20.57349 AU
morning rise	-7556 Mar 06 j 11:08	4°♑45'05	
retrograde	-7556 Jun 08 j 17:32	7°♑56'01	
opposition	-7556 Aug 23 j 13:48	5°♑54'59	-1°02'44
min. Earth dist.	-7556 Aug 23 j 15:39	5°♑54'47	18.54230 AU
direct	-7556 Nov 06 j 04:11	3°♑55'09	
evening set	-7555 Feb 05 j 15:44	7°♑01'13	
conjunction	-7555 Feb 22 j 08:29	7°♑58'49	-0°57'05
minimum elong	-7555 Feb 22 j 08:29	7°♑58'49	0°57'35
max. Earth dist.	-7555 Feb 22 j 05:50	7°♑58'26	20.51051 AU
morning rise	-7555 Mar 11 j 03:01	8°♑56'44	
retrograde	-7555 Jun 13 j 07:00	12°♑08'07	
opposition	-7555 Aug 27 j 22:22	10°♑06'58	-1°03'48
min. Earth dist.	-7555 Aug 28 j 01:24	10°♑06'39	18.47868 AU
direct	-7555 Nov 10 j 13:41	8°♑06'44	
evening set	-7554 Feb 10 j 07:20	11°♑13'56	
conjunction	-7554 Feb 27 j 00:34	12°♑11'49	-0°57'53
minimum elong	-7554 Feb 27 j 00:34	12°♑11'49	0°58'23
max. Earth dist.	-7554 Feb 26 j 18:32	12°♑10'56	20.44641 AU
morning rise	-7554 Mar 15 j 19:35	13°♑09'59	
retrograde	-7554 Jun 17 j 20:36	16°♑21'52	
opposition	-7554 Sep 01 j 07:34	14°♑20'37	-1°04'32
min. Earth dist.	-7554 Sep 01 j 13:05	14°♑20'02	18.41429 AU
direct	-7554 Nov 14 j 23:07	12°♑19'59	
evening set	-7553 Feb 14 j 23:40	15°♑28'23	
conjunction	-7553 Mar 03 j 17:42	16°♑26'34	-0°58'22
minimum elong	-7553 Mar 03 j 17:42	16°♑26'34	0°58'52
max. Earth dist.	-7553 Mar 03 j 10:34	16°♑25'31	20.38173 AU
morning rise	-7553 Mar 20 j 12:54	17°♑24'58	
retrograde	-7553 Jun 22 j 11:40	20°♑37'23	
opposition	-7553 Sep 05 j 17:14	18°♑36'04	-1°04'55
min. Earth dist.	-7553 Sep 05 j 23:50	18°♑35'22	18.34934 AU
direct	-7553 Nov 19 j 10:26	16°♑35'04	
evening set	-7552 Feb 19 j 17:08	19°♑44'43	

Attention, astronomical year style is used: The year -7552 in astronomical counting style is the year 7553 BCE in historical counting style.

conjunction	-7552 Mar 07 j 11:36	20°♉43'11	-0°58'32
minimum elong	-7552 Mar 07 j 11:36	20°♉43'11	0°59'02
max. Earth dist.	-7552 Mar 07 j 01:08	20°♉41'40	20.31658 AU
morning rise	-7552 Mar 24 j 07:10	21°♉41'51	
retrograde	-7552 Jun 26 j 02:09	24°♉54'49	
opposition	-7552 Sep 09 j 03:45	22°♉53'28	-1°04'57
min. Earth dist.	-7552 Sep 09 j 13:05	22°♉52'28	18.28403 AU
direct	-7552 Nov 22 j 20:52	20°♉52'06	
evening set	-7551 Feb 23 j 11:32	24°♉03'03	
conjunction	-7551 Mar 12 j 06:37	25°♉01'50	-0°58'23
minimum elong	-7551 Mar 12 j 06:37	25°♉01'50	0°58'53
max. Earth dist.	-7551 Mar 11 j 18:49	25°♉00'06	20.25103 AU
morning rise	-7551 Mar 29 j 02:12	26°♉00'44	
retrograde	-7551 Jun 30 j 19:09	29°♉14'17	
opposition	-7551 Sep 13 j 14:47	27°♉12'53	-1°04'37
min. Earth dist.	-7551 Sep 14 j 01:19	27°♉11'46	18.21817 AU
direct	-7551 Nov 27 j 10:21	25°♉11'11	
evening set	-7550 Feb 28 j 07:04	28°♉23'29	
max. Earth dist.	-7550 Mar 16 j 11:19	29°♉20'19	20.18487 AU
conjunction	-7550 Mar 17 j 02:24	29°♉22'33	-0°57'54
minimum elong	-7550 Mar 17 j 02:24	29°♉22'33	0°58'21
	-7550 Mar 27 j 16:48	0°♒	
morning rise	-7550 Apr 02 j 22:07	0°♒21'42	
retrograde	-7550 Jul 05 j 10:34	3°♒35'50	
opposition	-7550 Sep 18 j 02:51	1°♒34'25	-1°03'54
min. Earth dist.	-7550 Sep 18 j 16:16	1°♒32'58	18.15181 AU
	-7550 Oct 30 j 03:10	30°℞♉	
direct	-7550 Dec 01 j 22:15	29°♉32'20	
	-7549 Jan 03 j 13:28	0°♒	
evening set	-7549 Mar 05 j 03:15	2°♒46'00	
conjunction	-7549 Mar 21 j 23:03	3°♒45'21	-0°57'04
minimum elong	-7549 Mar 21 j 23:03	3°♒45'21	0°57'31
max. Earth dist.	-7549 Mar 21 j 06:22	3°♒42'53	20.11815 AU
morning rise	-7549 Apr 07 j 18:42	4°♒44'45	
retrograde	-7549 Jul 10 j 05:07	7°♒59'28	
opposition	-7549 Sep 22 j 15:33	5°♒58'01	-1°02'48
min. Earth dist.	-7549 Sep 23 j 06:08	5°♒56'27	18.08469 AU
direct	-7549 Dec 06 j 13:59	3°♒55'34	
evening set	-7548 Mar 09 j 00:43	7°♒10'35	
conjunction	-7548 Mar 25 j 20:40	8°♒10'14	-0°55'53
minimum elong	-7548 Mar 25 j 20:40	8°♒10'14	0°56'18
max. Earth dist.	-7548 Mar 25 j 00:48	8°♒07'17	20.05063 AU
morning rise	-7548 Apr 11 j 16:15	9°♒09'51	
retrograde	-7548 Jul 13 j 21:21	12°♒25'09	
opposition	-7548 Sep 26 j 05:08	10°♒23'38	-1°01'20
min. Earth dist.	-7548 Sep 26 j 22:43	10°♒21'44	18.01697 AU
direct	-7548 Dec 10 j 04:03	8°♒20'47	
evening set	-7547 Mar 13 j 22:58	11°♒37'10	
conjunction	-7547 Mar 30 j 19:09	12°♒37'05	-0°54'21
minimum elong	-7547 Mar 30 j 19:09	12°♒37'05	0°54'46
max. Earth dist.	-7547 Mar 29 j 21:24	12°♒33'50	19.98273 AU
morning rise	-7547 Apr 16 j 14:30	13°♒36'55	
	-7547 May 11 j 20:32	15°♒	
retrograde	-7547 Jul 18 j 16:53	16°♒52'47	
	-7547 Sep 27 j 09:44	15°℞♒	
opposition	-7547 Sep 30 j 19:26	14°♒51'11	-0°59'28
min. Earth dist.	-7547 Oct 01 j 13:56	14°♒49'11	17.94896 AU
direct	-7547 Dec 14 j 22:09	12°♒47'56	
	-7546 Feb 27 j 08:39	15°♒	
evening set	-7546 Mar 18 j 21:55	16°♒05'38	
conjunction	-7546 Apr 04 j 18:06	17°♒05'49	-0°52'29
minimum elong	-7546 Apr 04 j 18:07	17°♒05'50	0°52'53
max. Earth dist.	-7546 Apr 03 j 17:52	17°♒02'11	19.91474 AU
morning rise	-7546 Apr 21 j 13:08	18°♒05'53	
retrograde	-7546 Jul 23 j 09:45	21°♒22'17	
opposition	-7546 Oct 05 j 10:40	19°♒20'35	-0°57'14
min. Earth dist.	-7546 Oct 06 j 07:53	19°♒18'17	17.88134 AU
direct	-7546 Dec 19 j 14:22	17°♒16'54	
evening set	-7545 Mar 23 j 21:39	20°♒35'56	
conjunction	-7545 Apr 09 j 17:51	21°♒36'22	-0°50'18
minimum elong	-7545 Apr 09 j 17:51	21°♒36'22	0°50'39
max. Earth dist.	-7545 Apr 08 j 15:48	21°♒32'27	19.84765 AU
morning rise	-7545 Apr 26 j 12:34	22°♒36'38	
retrograde	-7545 Jul 28 j 06:06	25°♒53'33	
opposition	-7545 Oct 10 j 02:21	23°♒51'44	-0°54'37
min. Earth dist.	-7545 Oct 11 j 00:11	23°♒49'22	17.81488 AU
direct	-7545 Dec 24 j 10:24	21°♒47'38	
evening set	-7544 Mar 27 j 22:10	25°♒07'59	
conjunction	-7544 Apr 13 j 18:16	26°♒08'39	-0°47'46
minimum elong	-7544 Apr 13 j 18:17	26°♒08'39	0°48'07
max. Earth dist.	-7544 Apr 12 j 14:32	26°♒04'28	19.78195 AU
morning rise	-7544 Apr 30 j 12:27	27°♒09'06	
	-7544 Jun 30 j 17:28	0°♓	
retrograde	-7544 Aug 01 j 00:17	0°♓26'31	
	-7544 Sep 01 j 16:55	30°℞♒	
opposition	-7544 Oct 13 j 19:06	28°♒24'36	-0°51'40
min. Earth dist.	-7544 Oct 14 j 19:19	28°♒21'58	17.75028 AU
direct	-7544 Dec 28 j 04:46	26°♒20'06	
evening set	-7543 Apr 01 j 23:19	29°♒41'42	
	-7543 Apr 07 j 02:02	0°♓	
conjunction	-7543 Apr 18 j 19:07	0°♓42'35	-0°44'56
minimum elong	-7543 Apr 18 j 19:07	0°♓42'36	0°45'14
max. Earth dist.	-7543 Apr 17 j 13:41	0°♓38'07	19.71861 AU
morning rise	-7543 May 05 j 12:50	1°♓43'12	
retrograde	-7543 Aug 05 j 21:31	5°♓01'07	
opposition	-7543 Oct 18 j 12:28	2°♓59'07	-0°48'21
min. Earth dist.	-7543 Oct 19 j 12:54	2°♓56'27	17.68838 AU
direct	-7542 Jan 02 j 02:16	0°♓54'12	
evening set	-7542 Apr 07 j 01:01	4°♓17'03	
conjunction	-7542 Apr 23 j 20:33	5°♓18'09	-0°41'48
minimum elong	-7542 Apr 23 j 20:33	5°♓18'09	0°42'04
max. Earth dist.	-7542 Apr 22 j 14:26	5°♓13'33	19.65824 AU
morning rise	-7542 May 10 j 13:28	6°♓18'55	
retrograde	-7542 Aug 10 j 17:22	9°♓37'18	
opposition	-7542 Oct 23 j 06:49	7°♓35'13	-0°44'43
min. Earth dist.	-7542 Oct 24 j 09:01	7°♓32'21	17.62990 AU
direct	-7541 Jan 06 j 22:02	5°♓29'58	
evening set	-7541 Apr 12 j 03:14	8°♓53'59	
conjunction	-7541 Apr 28 j 22:15	9°♓55'16	-0°38'23
minimum elong	-7541 Apr 28 j 22:15	9°♓55'16	0°38'37
max. Earth dist.	-7541 Apr 27 j 14:33	9°♓50'24	19.60176 AU
morning rise	-7541 May 15 j 14:37	10°♓56'11	
retrograde	-7541 Aug 15 j 16:00	14°♓15'02	
opposition	-7541 Oct 28 j 01:50	12°♓12'53	-0°40'47
min. Earth dist.	-7541 Oct 29 j 03:59	12°♓10'02	17.57549 AU
direct	-7540 Jan 11 j 20:45	10°♓07'19	
evening set	-7540 Apr 16 j 06:04	13°♓32'30	
max. Earth dist.	-7540 May 01 j 17:03	14°♓29'04	19.54944 AU
conjunction	-7540 May 03 j 00:41	14°♓33'56	-0°34'42
minimum elong	-7540 May 03 j 00:41	14°♓33'56	0°34'53
morning rise	-7540 May 19 j 16:02	15°♓34'59	
retrograde	-7540 Aug 19 j 13:19	18°♓54'16	

Attention, astronomical year style is used: The year -7540 in astronomical counting style is the year 7541 BCE in historical counting style.

opposition	-7540 Oct 31 j 21:47	16°♓52'07	-0°36'33
min. Earth dist.	-7540 Nov 02 j 01:14	16°♓49'07	17.52548 AU
direct	-7539 Jan 15 j 17:39	14°♓46'18	
evening set	-7539 Apr 21 j 09:32	18°♓12'35	
max. Earth dist.	-7539 May 06 j 18:12	19°♓09'03	19.50187 AU
conjunction	-7539 May 08 j 03:20	19°♓14'10	-0°30'46
minimum elong	-7539 May 08 j 03:21	19°♓14'10	0°30'56
morning rise	-7539 May 24 j 17:57	20°♓15'18	
retrograde	-7539 Aug 24 j 13:04	23°♓35'02	
opposition	-7539 Nov 05 j 18:32	21°♓32'54	-0°32'03
min. Earth dist.	-7539 Nov 06 j 21:49	21°♓29'55	17.48032 AU
direct	-7538 Jan 20 j 17:32	19°♓26'53	
evening set	-7538 Apr 26 j 13:06	22°♓54'11	
max. Earth dist.	-7538 May 11 j 22:01	23°♓50'52	19.45904 AU
conjunction	-7538 May 13 j 06:21	23°♓55'53	-0°26'37
minimum elong	-7538 May 13 j 06:21	23°♓55'53	0°26'43
morning rise	-7538 May 29 j 19:50	24°♓57'06	
retrograde	-7538 Aug 29 j 11:40	28°♓17'15	
opposition	-7538 Nov 10 j 16:11	26°♓15'10	-0°27'18
min. Earth dist.	-7538 Nov 11 j 20:20	26°♓12'05	17.43982 AU
direct	-7537 Jan 25 j 16:03	24°♓09'00	
evening set	-7537 May 01 j 17:25	27°♓37'16	
max. Earth dist.	-7537 May 16 j 23:55	28°♓33'48	19.42093 AU
conjunction	-7537 May 18 j 09:39	28°♓39'04	-0°22'15
minimum elong	-7537 May 18 j 09:40	28°♓39'04	0°22'19
morning rise	-7537 Jun 03 j 22:16	29°♓40'20	
	-7537 Jun 09 j 09:00	0°♈	
retrograde	-7537 Sep 03 j 11:40	3°♈00'52	
opposition	-7537 Nov 15 j 14:25	0°♈58'49	-0°22'20
min. Earth dist.	-7537 Nov 16 j 18:40	0°♈55'44	17.40403 AU
	-7537 Dec 08 j 22:49	30°♓℞	
direct	-7536 Jan 30 j 17:40	28°♓52'31	
	-7536 Mar 22 j 06:20	0°♈	
evening set	-7536 May 05 j 21:57	2°♈21'40	
max. Earth dist.	-7536 May 21 j 04:41	3°♈18'25	19.38729 AU
conjunction	-7536 May 22 j 13:26	3°♈23'31	-0°17'43
minimum elong	-7536 May 22 j 13:26	3°♈23'31	0°17'45
morning rise	-7536 Jun 08 j 00:46	4°♈24'49	
retrograde	-7536 Sep 07 j 10:55	7°♈45'41	
opposition	-7536 Nov 19 j 13:44	5°♈43'42	-0°17'12
min. Earth dist.	-7536 Nov 20 j 18:20	5°♈40'35	17.37252 AU
direct	-7535 Feb 03 j 18:44	3°♈37'19	
evening set	-7535 May 11 j 02:47	7°♈07'12	
max. Earth dist.	-7535 May 26 j 07:14	8°♈03'47	19.35794 AU
conjunction	-7535 May 27 j 17:04	8°♈09'05	-0°13'03
minimum elong	-7535 May 27 j 17:04	8°♈09'05	0°13'02
behind sun begin	-7535 May 27 j 13:04	8°♈08'28	
behind sun end	-7535 May 27 j 21:03	8°♈09'42	
morning rise	-7535 Jun 13 j 03:19	9°♈10'23	
retrograde	-7535 Sep 12 j 10:51	12°♈31'34	
opposition	-7535 Nov 24 j 13:43	10°♈29'36	-0°11'55
min. Earth dist.	-7535 Nov 25 j 18:24	10°♈26'28	17.34542 AU
direct	-7534 Feb 08 j 22:00	8°♈23'07	
evening set	-7534 May 16 j 07:35	11°♈53'38	
conjunction	-7534 Jun 01 j 20:54	12°♈55'31	-0°08'17
minimum elong	-7534 Jun 01 j 20:55	12°♈55'31	0°08'14
behind sun begin	-7534 Jun 01 j 14:59	12°♈54'37	
behind sun end	-7534 Jun 02 j 02:51	12°♈56'26	
max. Earth dist.	-7534 May 31 j 12:19	12°♈50'24	19.33298 AU
morning rise	-7534 Jun 18 j 05:52	13°♈56'48	
retrograde	-7534 Sep 17 j 10:45	17°♈18'13	

opposition	-7534 Nov 29 j 14:16	15°♈16'17	-0°06'32
min. Earth dist.	-7534 Nov 30 j 18:35	15°♈13'11	17.32258 AU
direct	-7533 Feb 14 j 01:29	13°♈09'44	
evening set	-7533 May 21 j 12:30	16°♈40'44	
max. Earth dist.	-7533 Jun 05 j 15:30	17°♈37'24	19.31240 AU
conjunction	-7533 Jun 07 j 00:36	17°♈42'36	-0°03'27
minimum elong	-7533 Jun 07 j 00:36	17°♈42'36	0°03'21
behind sun begin	-7533 Jun 06 j 17:55	17°♈41'34	
behind sun end	-7533 Jun 07 j 07:16	17°♈43'37	
morning rise	-7533 Jun 23 j 08:22	18°♈43'51	
retrograde	-7533 Sep 22 j 10:25	22°♈05'26	
opposition	-7533 Dec 04 j 15:28	20°♈03'30	-0°01'06
min. Earth dist.	-7533 Dec 05 j 19:54	20°♈00'25	17.30436 AU
asc. node	-7532 Feb 16 j 04:34	17°♈57'07	
direct	-7532 Feb 19 j 05:23	17°♈56'53	
evening set	-7532 May 25 j 17:12	21°♈28'17	
max. Earth dist.	-7532 Jun 09 j 20:26	22°♈25'05	19.29656 AU
conjunction	-7532 Jun 11 j 04:09	22°♈30'05	0°01'33
minimum elong	-7532 Jun 11 j 04:08	22°♈30'05	0°01'42
behind sun begin	-7532 Jun 10 j 21:25	22°♈29'03	
behind sun end	-7532 Jun 11 j 10:50	22°♈31'07	
morning rise	-7532 Jun 27 j 10:34	23°♈31'15	
retrograde	-7532 Sep 26 j 11:02	26°♈52'58	
opposition	-7532 Dec 08 j 17:06	24°♈51'03	0°04'20
min. Earth dist.	-7532 Dec 09 j 20:21	24°♈48'05	17.29088 AU
direct	-7531 Feb 23 j 10:33	22°♈44'23	
evening set	-7531 May 30 j 21:43	26°♈16'02	
max. Earth dist.	-7531 Jun 15 j 00:14	27°♈12'50	19.28571 AU
conjunction	-7531 Jun 16 j 07:21	27°♈17'45	0°06'25
minimum elong	-7531 Jun 16 j 07:20	27°♈17'45	0°06'36
behind sun begin	-7531 Jun 16 j 01:04	27°♈16'47	
behind sun end	-7531 Jun 16 j 13:37	27°♈18'43	
morning rise	-7531 Jul 02 j 12:29	28°♈18'50	
	-7531 Aug 01 j 02:26	0°♉	
retrograde	-7531 Oct 01 j 10:25	1°♉40'37	
	-7531 Dec 05 j 13:50	30°℞♈	
opposition	-7531 Dec 13 j 19:17	29°♈38'41	0°09'45
min. Earth dist.	-7531 Dec 14 j 22:25	29°♈35'45	17.28283 AU
direct	-7530 Feb 28 j 14:23	27°♈32'01	
	-7530 May 18 j 03:27	0°♉	
evening set	-7530 Jun 05 j 01:38	1°♉03'45	
max. Earth dist.	-7530 Jun 20 j 04:28	2°♉00'41	19.28051 AU
conjunction	-7530 Jun 21 j 09:59	2°♉05'22	0°11'13
minimum elong	-7530 Jun 21 j 09:59	2°♉05'22	0°11'27
behind sun begin	-7530 Jun 21 j 05:09	2°♉04'37	
behind sun end	-7530 Jun 21 j 14:48	2°♉06'06	
morning rise	-7530 Jul 07 j 13:53	3°♉06'20	
retrograde	-7530 Oct 06 j 11:36	6°♉28'08	
opposition	-7530 Dec 18 j 21:37	4°♉26'13	0°15'05
min. Earth dist.	-7530 Dec 19 j 22:46	4°♉23'29	17.28040 AU
direct	-7529 Mar 05 j 20:14	2°♉19'33	
evening set	-7529 Jun 10 j 05:16	5°♉51'17	
max. Earth dist.	-7529 Jun 25 j 08:25	6°♉48'20	19.28107 AU
conjunction	-7529 Jun 26 j 12:18	6°♉52'45	0°15'56
minimum elong	-7529 Jun 26 j 12:18	6°♉52'45	0°16'12
morning rise	-7529 Jul 12 j 14:49	7°♉53'35	
retrograde	-7529 Oct 11 j 10:31	11°♉15'21	
opposition	-7529 Dec 24 j 00:17	9°♉13'27	0°20'19
min. Earth dist.	-7529 Dec 25 j 01:01	9°♉10'47	17.28412 AU
direct	-7528 Mar 09 j 23:33	7°♉06'50	
evening set	-7528 Jun 14 j 08:28	10°♉38'27	
max. Earth dist.	-7528 Jun 29 j 11:46	11°♉35'35	19.28807 AU

Attention, astronomical year style is used: The year -7528 in astronomical counting style is the year 7529 BCE in historical counting style.

conjunction	-7528 Jun 30 j 14:02	11°♉39'45	0°20'33
minimum elong	-7528 Jun 30 j 14:02	11°♉39'45	0°20'51
morning rise	-7528 Jul 16 j 15:21	12°♉40'26	
	-7528 Aug 28 j 22:52	15°♉	
retrograde	-7528 Oct 15 j 12:04	16°♉02'08	
	-7528 Dec 04 j 00:20	15°℞♉	
opposition	-7528 Dec 28 j 03:11	14°♉00'15	0°25'23
min. Earth dist.	-7528 Dec 29 j 01:11	13°♉57'53	17.29432 AU
direct	-7527 Mar 15 j 05:07	11°♉53'46	
	-7527 Jun 12 j 14:19	15°♉	
evening set	-7527 Jun 19 j 10:52	15°♉25'07	
conjunction	-7527 Jul 05 j 15:10	16°♉26'14	0°25'01
minimum elong	-7527 Jul 05 j 15:10	16°♉26'14	0°25'20
max. Earth dist.	-7527 Jul 04 j 15:35	16°♉22'30	19.30157 AU
morning rise	-7527 Jul 21 j 15:03	17°♉26'44	
retrograde	-7527 Oct 20 j 11:06	20°♉48'21	
opposition	-7526 Jan 02 j 06:22	18°♉46'33	0°30'17
min. Earth dist.	-7526 Jan 03 j 03:28	18°♉44'16	17.31120 AU
direct	-7526 Mar 20 j 08:05	16°♉40'14	
evening set	-7526 Jun 24 j 12:53	20°♉11'14	
conjunction	-7526 Jul 10 j 15:42	21°♉12'08	0°29'18
minimum elong	-7526 Jul 10 j 15:42	21°♉12'08	0°29'39
max. Earth dist.	-7526 Jul 09 j 17:39	21°♉08'38	19.32187 AU
morning rise	-7526 Jul 26 j 14:30	22°♉12'26	
retrograde	-7526 Oct 25 j 12:10	25°♉33'54	
opposition	-7525 Jan 07 j 09:16	23°♉32'12	0°34'57
min. Earth dist.	-7525 Jan 08 j 03:23	23°♉30'16	17.33469 AU
direct	-7525 Mar 25 j 13:18	21°♉26'09	
evening set	-7525 Jun 29 j 14:09	24°♉56'41	
conjunction	-7525 Jul 15 j 15:46	25°♉57'22	0°33'23
minimum elong	-7525 Jul 15 j 15:46	25°♉57'22	0°33'46
max. Earth dist.	-7525 Jul 14 j 20:55	25°♉54'23	19.34851 AU
morning rise	-7525 Jul 31 j 13:13	26°♉57'27	
	-7525 Oct 04 j 14:27	0°♊	
retrograde	-7525 Oct 30 j 10:52	0°♊18'45	
	-7525 Nov 25 j 19:41	30°℞♉	
opposition	-7524 Jan 12 j 12:32	28°♉17'11	0°39'23
min. Earth dist.	-7524 Jan 13 j 05:34	28°♉15'22	17.36429 AU
direct	-7524 Mar 29 j 16:29	26°♉11'26	
evening set	-7524 Jul 03 j 14:48	29°♉41'24	
	-7524 Jul 08 j 14:19	0°♊	
conjunction	-7524 Jul 19 j 14:55	0°♊41'49	0°37'13
minimum elong	-7524 Jul 19 j 14:55	0°♊41'49	0°37'38
max. Earth dist.	-7524 Jul 18 j 21:29	0°♊39'04	19.38107 AU
morning rise	-7524 Aug 04 j 11:22	1°♊41'42	
retrograde	-7524 Nov 03 j 11:06	5°♊02'47	
opposition	-7523 Jan 16 j 15:41	3°♊01'21	0°43'32
min. Earth dist.	-7523 Jan 17 j 05:44	2°♊59'52	17.39953 AU
direct	-7523 Apr 03 j 21:46	0°♊55'56	
evening set	-7523 Jul 08 j 14:39	4°♊25'13	
conjunction	-7523 Jul 24 j 13:38	5°♊25'23	0°40'48
minimum elong	-7523 Jul 24 j 13:38	5°♊25'23	0°41'15
max. Earth dist.	-7523 Jul 23 j 23:40	5°♊23'11	19.41884 AU
morning rise	-7523 Aug 09 j 08:49	6°♊25'01	
retrograde	-7523 Nov 08 j 09:07	9°♊45'50	
opposition	-7522 Jan 21 j 18:50	7°♊44'34	0°47'22
min. Earth dist.	-7522 Jan 22 j 07:31	7°♊43'13	17.43964 AU
direct	-7522 Apr 09 j 01:30	5°♊39'30	
evening set	-7522 Jul 13 j 13:49	9°♊08'00	
conjunction	-7522 Jul 29 j 11:24	10°♊07'52	0°44'06
minimum elong	-7522 Jul 29 j 11:23	10°♊07'52	0°44'34
max. Earth dist.	-7522 Jul 28 j 22:39	10°♊05'52	19.46118 AU
morning rise	-7522 Aug 14 j 05:44	11°♊07'16	
retrograde	-7522 Nov 13 j 07:47	14°♊27'47	
opposition	-7521 Jan 26 j 21:41	12°♊26'39	0°50'52
min. Earth dist.	-7521 Jan 27 j 07:40	12°♊25'35	17.48400 AU
direct	-7521 Apr 14 j 05:38	10°♊21'55	
evening set	-7521 Jul 18 j 12:05	13°♊49'32	
conjunction	-7521 Aug 03 j 08:37	14°♊49'07	0°47'05
minimum elong	-7521 Aug 03 j 08:37	14°♊49'07	0°47'33
max. Earth dist.	-7521 Aug 02 j 23:16	14°♊47'39	19.50733 AU
morning rise	-7521 Aug 19 j 01:48	15°♊48'14	
retrograde	-7521 Nov 18 j 05:14	19°♊08'24	
opposition	-7520 Feb 01 j 00:21	17°♊07'24	0°54'00
min. Earth dist.	-7520 Feb 01 j 08:36	17°♊06'31	17.53180 AU
direct	-7520 Apr 18 j 08:51	15°♊03'01	
evening set	-7520 Jul 22 j 09:42	18°♊29'38	
conjunction	-7520 Aug 07 j 04:55	19°♊28'55	0°49'45
minimum elong	-7520 Aug 07 j 04:55	19°♊28'55	0°50'14
max. Earth dist.	-7520 Aug 06 j 20:48	19°♊27'39	19.55678 AU
morning rise	-7520 Aug 22 j 21:22	20°♊27'47	
retrograde	-7520 Nov 22 j 02:46	23°♊47'33	
opposition	-7519 Feb 05 j 02:43	21°♊46'38	0°56'46
min. Earth dist.	-7519 Feb 05 j 08:31	21°♊46'02	17.58280 AU
direct	-7519 Apr 23 j 10:58	19°♊42'36	
evening set	-7519 Jul 27 j 06:04	23°♊08'08	
conjunction	-7519 Aug 12 j 00:24	24°♊07'07	0°52'04
minimum elong	-7519 Aug 12 j 00:24	24°♊07'07	0°52'33
max. Earth dist.	-7519 Aug 11 j 19:38	24°♊06'22	19.60914 AU
morning rise	-7519 Aug 27 j 15:56	25°♊05'43	
retrograde	-7519 Nov 26 j 23:34	28°♊25'01	
opposition	-7518 Feb 10 j 04:35	26°♊24'11	0°59'08
min. Earth dist.	-7518 Feb 10 j 08:12	26°♊23'48	17.63636 AU
direct	-7518 Apr 28 j 12:56	24°♊20'29	
evening set	-7518 Aug 01 j 01:44	27°♊44'51	
conjunction	-7518 Aug 16 j 18:58	28°♊43'32	0°54'01
minimum elong	-7518 Aug 16 j 18:58	28°♊43'32	0°54'32
max. Earth dist.	-7518 Aug 16 j 15:36	28°♊43'00	19.66398 AU
morning rise	-7518 Sep 01 j 09:56	29°♊41'51	
	-7518 Sep 06 j 09:33	0°♋	
retrograde	-7518 Dec 01 j 19:58	3°♋00'40	
opposition	-7517 Feb 15 j 05:44	0°♋59'53	1°01'06
min. Earth dist.	-7517 Feb 15 j 07:18	0°♋59'43	17.69249 AU
	-7517 Mar 12 j 05:11	30°℞♊	
direct	-7517 May 03 j 13:16	28°♊56'29	
	-7517 Jun 22 j 14:18	0°♋	
evening set	-7517 Aug 05 j 20:14	2°♋19'39	
conjunction	-7517 Aug 21 j 12:42	3°♋18'01	0°55'37
minimum elong	-7517 Aug 21 j 12:42	3°♋18'01	0°56'08
max. Earth dist.	-7517 Aug 21 j 12:32	3°♋17'59	19.72131 AU
morning rise	-7517 Sep 06 j 02:57	4°♋16'04	
retrograde	-7517 Dec 06 j 15:49	7°♋34'20	
opposition	-7516 Feb 20 j 06:27	5°♋33'36	1°02'40
min. Earth dist.	-7516 Feb 20 j 05:17	5°♋33'44	17.75092 AU
direct	-7516 May 07 j 13:54	3°♋30'33	
evening set	-7516 Aug 09 j 13:42	6°♋52'25	
conjunction	-7516 Aug 25 j 05:14	7°♋50'28	0°56'52
minimum elong	-7516 Aug 25 j 05:14	7°♋50'28	0°57'22
max. Earth dist.	-7516 Aug 25 j 06:58	7°♋50'44	19.78099 AU
morning rise	-7516 Sep 09 j 19:05	8°♋48'15	
retrograde	-7516 Dec 10 j 10:53	12°♋05'59	
opposition	-7515 Feb 24 j 06:34	10°♋05'16	1°03'50

Attention, astronomical year style is used: The year -7515 in astronomical counting style is the year 7516 BCE in historical counting style.

min. Earth dist.	-7515 Feb 24 j 03:24	10°♋05'36	17.81197 AU
direct	-7515 May 12 j 12:39	8°♋02'33	
evening set	-7515 Aug 14 j 06:05	11°♋23'06	
conjunction	-7515 Aug 29 j 21:00	12°♋20'50	0°57'45
minimum elong	-7515 Aug 29 j 21:00	12°♋20'50	0°58'15
max. Earth dist.	-7515 Aug 30 j 01:54	12°♋21'35	19.84331 AU
morning rise	-7515 Sep 14 j 10:22	13°♋18'22	
retrograde	-7515 Dec 15 j 05:34	16°♋35'30	
opposition	-7514 Mar 01 j 05:43	14°♋34'51	1°04'36
min. Earth dist.	-7514 Feb 28 j 23:22	14°♋35'30	17.87553 AU
direct	-7514 May 17 j 11:46	12°♋32'29	
evening set	-7514 Aug 18 j 21:34	15°♋51'42	
conjunction	-7514 Sep 03 j 11:48	16°♋49'08	0°58'16
minimum elong	-7514 Sep 03 j 11:48	16°♋49'08	0°58'46
max. Earth dist.	-7514 Sep 03 j 18:51	16°♋50'14	19.90813 AU
morning rise	-7514 Sep 19 j 00:55	17°♋46'25	
retrograde	-7514 Dec 19 j 22:59	21°♋03'00	
opposition	-7513 Mar 06 j 04:21	19°♋02'24	1°04'58
min. Earth dist.	-7513 Mar 05 j 20:11	19°♋03'15	17.94170 AU
direct	-7513 May 22 j 08:25	17°♋00'26	
evening set	-7513 Aug 23 j 11:59	20°♋18'19	
conjunction	-7513 Sep 08 j 01:43	21°♋15'28	0°58'27
minimum elong	-7513 Sep 08 j 01:43	21°♋15'28	0°58'57
max. Earth dist.	-7513 Sep 08 j 11:40	21°♋16'59	19.97548 AU
morning rise	-7513 Sep 23 j 14:33	22°♋12'28	
retrograde	-7513 Dec 24 j 17:01	25°♋28'30	
opposition	-7512 Mar 10 j 02:09	23°♋28'01	1°04'57
min. Earth dist.	-7512 Mar 09 j 14:33	23°♋29'12	18.01007 AU
direct	-7512 May 26 j 05:46	21°♋26'29	
evening set	-7512 Aug 27 j 01:37	24°♋43'02	
conjunction	-7512 Sep 11 j 14:52	25°♋39'53	0°58'17
minimum elong	-7512 Sep 11 j 14:52	25°♋39'53	0°58'46
max. Earth dist.	-7512 Sep 12 j 03:08	25°♋41'46	20.04484 AU
morning rise	-7512 Sep 27 j 03:37	26°♋36'40	
retrograde	-7512 Dec 28 j 08:52	29°♋52'10	
opposition	-7511 Mar 14 j 23:23	27°♋51'48	1°04'33
min. Earth dist.	-7511 Mar 14 j 10:19	27°♋53'08	18.08037 AU
direct	-7511 May 31 j 00:34	25°♋50'43	
evening set	-7511 Aug 31 j 14:16	29°♋05'57	
	-7511 Sep 15 j 10:42	0°♌	
conjunction	-7511 Sep 16 j 03:14	0°♌02'32	0°57'47
minimum elong	-7511 Sep 16 j 03:14	0°♌02'32	0°58'16
max. Earth dist.	-7511 Sep 16 j 17:56	0°♌04'47	20.11582 AU
morning rise	-7511 Oct 01 j 15:58	0°♌59'04	
retrograde	-7510 Jan 02 j 02:27	4°♌14'02	
opposition	-7510 Mar 19 j 19:40	2°♌13'48	1°03'47
min. Earth dist.	-7510 Mar 19 j 03:25	2°♌15'28	18.15171 AU
direct	-7510 Jun 04 j 20:03	0°♌13'11	
evening set	-7510 Sep 05 j 02:15	3°♌27'08	
conjunction	-7510 Sep 20 j 14:55	4°♌23'27	0°56'57
minimum elong	-7510 Sep 20 j 14:56	4°♌23'27	0°57'24
max. Earth dist.	-7510 Sep 21 j 07:49	4°♌26'01	20.18733 AU
morning rise	-7510 Oct 06 j 03:42	5°♌19'46	
retrograde	-7509 Jan 06 j 16:35	8°♌34'11	
opposition	-7509 Mar 24 j 15:16	6°♌34'07	1°02'39
min. Earth dist.	-7509 Mar 23 j 22:06	6°♌35'52	18.22337 AU
direct	-7509 Jun 09 j 13:00	4°♌33'58	
evening set	-7509 Sep 09 j 13:27	7°♌46'38	
conjunction	-7509 Sep 25 j 01:58	8°♌42'41	0°55'48
minimum elong	-7509 Sep 25 j 01:58	8°♌42'41	0°56'14
max. Earth dist.	-7509 Sep 25 j 20:42	8°♌45'32	20.25890 AU
morning rise	-7509 Oct 10 j 14:54	9°♌38'48	
retrograde	-7508 Jan 11 j 09:05	12°♌52'41	
opposition	-7508 Mar 28 j 10:08	10°♌52'46	1°01'10
min. Earth dist.	-7508 Mar 27 j 14:04	10°♌54'48	18.29456 AU
direct	-7508 Jun 13 j 06:58	8°♌53'04	
evening set	-7508 Sep 12 j 23:52	12°♌04'28	
conjunction	-7508 Sep 28 j 12:19	13°♌00'16	0°54'21
minimum elong	-7508 Sep 28 j 12:19	13°♌00'16	0°54'45
max. Earth dist.	-7508 Sep 29 j 09:08	13°♌03'25	20.32948 AU
morning rise	-7508 Oct 14 j 01:28	13°♌56'11	
	-7508 Nov 01 j 22:59	15°♌	
retrograde	-7507 Jan 14 j 21:48	17°♌09'34	
min. Earth dist.	-7507 Apr 01 j 07:49	15°♌11'51	18.36452 AU
opposition	-7507 Apr 02 j 04:26	15°♌09'46	0°59'21
	-7507 Apr 06 j 05:00	15°℞♌	
direct	-7507 Jun 17 j 22:05	13°♌10'29	
	-7507 Aug 23 j 23:32	15°♌	
evening set	-7507 Sep 17 j 09:44	16°♌20'38	
conjunction	-7507 Oct 02 j 22:12	17°♌16'12	0°52'35
minimum elong	-7507 Oct 02 j 22:12	17°♌16'12	0°52'58
max. Earth dist.	-7507 Oct 03 j 20:14	17°♌19'31	20.39855 AU
morning rise	-7507 Oct 18 j 11:42	18°♌11'56	
retrograde	-7506 Jan 19 j 12:55	21°♌24'46	
opposition	-7506 Apr 06 j 21:33	19°♌25'04	0°57'13
min. Earth dist.	-7506 Apr 05 j 22:32	19°♌27'24	18.43252 AU
direct	-7506 Jun 22 j 14:01	17°♌26'11	
evening set	-7506 Sep 21 j 18:55	20°♌35'06	
conjunction	-7506 Oct 07 j 07:30	21°♌30'28	0°50'33
minimum elong	-7506 Oct 07 j 07:30	21°♌30'28	0°50'55
max. Earth dist.	-7506 Oct 08 j 07:16	21°♌34'02	20.46522 AU
morning rise	-7506 Oct 22 j 21:22	22°♌26'01	
retrograde	-7505 Jan 24 j 00:10	25°♌38'19	
opposition	-7505 Apr 11 j 14:12	23°♌38'42	0°54'48
min. Earth dist.	-7505 Apr 10 j 14:58	23°♌41'03	18.49792 AU
direct	-7505 Jun 27 j 03:34	21°♌40'10	
evening set	-7505 Sep 26 j 03:18	24°♌47'52	
conjunction	-7505 Oct 11 j 16:04	25°♌43'02	0°48'15
minimum elong	-7505 Oct 11 j 16:04	25°♌43'02	0°48'35
max. Earth dist.	-7505 Oct 12 j 16:39	25°♌46'42	20.52925 AU
morning rise	-7505 Oct 27 j 06:27	26°♌38'25	
retrograde	-7504 Jan 28 j 13:52	29°♌50'12	
min. Earth dist.	-7504 Apr 14 j 04:30	27°♌53'10	18.56046 AU
opposition	-7504 Apr 15 j 05:56	27°♌50'37	0°52'05
direct	-7504 Jun 30 j 17:26	25°♌52'23	
evening set	-7504 Sep 29 j 11:07	28°♌58'54	
conjunction	-7504 Oct 15 j 00:12	29°♌53'53	0°45'43
minimum elong	-7504 Oct 15 j 00:12	29°♌53'53	0°46'02
max. Earth dist.	-7504 Oct 16 j 02:31	29°♌57'47	20.59024 AU
	-7504 Oct 16 j 17:28	0°♍	
morning rise	-7504 Oct 30 j 15:06	0°♍49'07	
retrograde	-7503 Feb 01 j 00:11	4°♍00'21	
opposition	-7503 Apr 19 j 20:51	2°♍00'47	0°49'08
min. Earth dist.	-7503 Apr 18 j 19:20	2°♍03'21	18.62005 AU
direct	-7503 Jul 05 j 05:31	0°♍02'49	
evening set	-7503 Oct 03 j 18:15	3°♍08'11	
conjunction	-7503 Oct 19 j 07:40	4°♍02'59	0°42'57
minimum elong	-7503 Oct 19 j 07:41	4°♍02'59	0°43'14
max. Earth dist.	-7503 Oct 20 j 10:34	4°♍06'58	20.64847 AU
morning rise	-7503 Nov 03 j 23:17	4°♍58'06	
retrograde	-7502 Feb 05 j 12:26	8°♍08'49	

Attention, astronomical year style is used: The year -7502 in astronomical counting style is the year 7503 BCE in historical counting style.

min. Earth dist.	-7502 Apr 23 j 07:21	6°♍11'59	18.67688 AU
opposition	-7502 Apr 24 j 10:48	6°♍09'14	0°45'56
direct	-7502 Jul 09 j 17:14	4°♍11'30	
evening set	-7502 Oct 08 j 00:47	7°♍15'47	
conjunction	-7502 Oct 23 j 14:38	8°♍10'25	0°40'00
minimum elong	-7502 Oct 23 j 14:38	8°♍10'25	0°40'13
max. Earth dist.	-7502 Oct 24 j 19:17	8°♍14'38	20.70386 AU
morning rise	-7502 Nov 08 j 06:50	9°♍05'24	
retrograde	-7501 Feb 09 j 21:45	12°♍15'37	
opposition	-7501 Apr 28 j 23:59	10°♍16'01	0°42'32
min. Earth dist.	-7501 Apr 27 j 20:23	10°♍18'47	18.73108 AU
direct	-7501 Jul 14 j 03:48	8°♍18'31	
evening set	-7501 Oct 12 j 06:51	11°♍21'46	
conjunction	-7501 Oct 27 j 21:08	12°♍16'16	0°36'51
minimum elong	-7501 Oct 27 j 21:08	12°♍16'16	0°37'04
max. Earth dist.	-7501 Oct 29 j 02:14	12°♍20'32	20.75696 AU
morning rise	-7501 Nov 12 j 14:07	13°♍11'08	
retrograde	-7500 Feb 14 j 09:16	16°♍20'53	
min. Earth dist.	-7500 May 01 j 06:57	14°♍24'13	18.78308 AU
opposition	-7500 May 02 j 12:22	14°♍21'17	0°38'56
direct	-7500 Jul 17 j 13:50	12°♍24'00	
evening set	-7500 Oct 15 j 12:22	15°♍26'17	
conjunction	-7500 Oct 31 j 03:15	16°♍20'40	0°33'32
minimum elong	-7500 Oct 31 j 03:15	16°♍20'40	0°33'42
max. Earth dist.	-7500 Nov 01 j 10:02	16°♍25'10	20.80770 AU
morning rise	-7500 Nov 15 j 20:58	17°♍15'27	
retrograde	-7499 Feb 17 j 17:54	20°♍24'46	
min. Earth dist.	-7499 May 05 j 18:36	18°♍28'08	18.83265 AU
opposition	-7499 May 07 j 00:05	18°♍25'11	0°35'10
direct	-7499 Jul 21 j 22:33	16°♍28'09	
evening set	-7499 Oct 19 j 17:40	19°♍29'33	
conjunction	-7499 Nov 04 j 09:08	20°♍23'49	0°30'05
minimum elong	-7499 Nov 04 j 09:08	20°♍23'49	0°30'13
max. Earth dist.	-7499 Nov 05 j 15:59	20°♍28'18	20.85609 AU
morning rise	-7499 Nov 20 j 03:45	21°♍18'31	
retrograde	-7498 Feb 22 j 04:51	24°♍27'26	
min. Earth dist.	-7498 May 10 j 04:05	22°♍30'58	18.87974 AU
opposition	-7498 May 11 j 10:51	22°♍27'53	0°31'15
direct	-7498 Jul 26 j 07:21	20°♍31'06	
evening set	-7498 Oct 23 j 22:34	23°♍31'42	
conjunction	-7498 Nov 08 j 14:45	24°♍25'53	0°26'29
minimum elong	-7498 Nov 08 j 14:45	24°♍25'53	0°26'35
max. Earth dist.	-7498 Nov 09 j 23:02	24°♍30'34	20.90168 AU
morning rise	-7498 Nov 24 j 10:09	25°♍20'32	
retrograde	-7497 Feb 26 j 13:08	28°♍29'06	
opposition	-7497 May 15 j 21:15	26°♍29'36	0°27'11
min. Earth dist.	-7497 May 14 j 14:41	26°♍32'40	18.92381 AU
direct	-7497 Jul 30 j 14:19	24°♍33'04	
evening set	-7497 Oct 28 j 03:10	27°♍32'55	
conjunction	-7497 Nov 12 j 20:01	28°♍27'01	0°22'46
minimum elong	-7497 Nov 12 j 20:02	28°♍27'01	0°22'50
max. Earth dist.	-7497 Nov 14 j 04:05	28°♍31'40	20.94422 AU
morning rise	-7497 Nov 28 j 16:26	29°♍21'38	
	-7497 Dec 10 j 07:06	0°♎	
retrograde	-7496 Mar 01 j 23:25	2°♎29'55	
min. Earth dist.	-7496 May 17 j 23:42	0°♎33'36	18.96458 AU
opposition	-7496 May 19 j 07:05	0°♎30'28	0°23'00
	-7496 Jun 01 j 03:12	30°℞♍	
direct	-7496 Aug 02 j 22:12	28°♍34'08	
	-7496 Oct 01 j 03:34	0°♎	
evening set	-7496 Oct 31 j 07:45	1°♎33'21	

conjunction	-7496 Nov 16 j 01:27	2°♎27'25	0°18'57
minimum elong	-7496 Nov 16 j 01:27	2°♎27'25	0°18'59
max. Earth dist.	-7496 Nov 17 j 10:34	2°♎32'12	20.98299 AU
morning rise	-7496 Dec 01 j 22:44	3°♎22'00	
retrograde	-7495 Mar 06 j 07:40	6°♎30'00	
min. Earth dist.	-7495 May 22 j 09:34	4°♎33'42	19.00130 AU
opposition	-7495 May 23 j 16:16	4°♎30'38	0°18'43
direct	-7495 Aug 07 j 04:16	2°♎34'31	
evening set	-7495 Nov 04 j 12:19	5°♎33'09	
conjunction	-7495 Nov 20 j 06:47	6°♎27'11	0°15'03
minimum elong	-7495 Nov 20 j 06:46	6°♎27'11	0°15'02
behind sun begin	-7495 Nov 20 j 04:18	6°♎26'50	
behind sun end	-7495 Nov 20 j 09:15	6°♎27'31	
max. Earth dist.	-7495 Nov 21 j 15:02	6°♎31'49	21.01758 AU
morning rise	-7495 Dec 06 j 05:07	7°♎21'45	
retrograde	-7494 Mar 10 j 17:16	10°♎29'31	
min. Earth dist.	-7494 May 26 j 18:09	8°♎33'17	19.03351 AU
opposition	-7494 May 28 j 01:00	8°♎30'12	0°14'21
direct	-7494 Aug 11 j 10:50	6°♎34'15	
evening set	-7494 Nov 08 j 16:45	9°♎32'23	
conjunction	-7494 Nov 24 j 12:05	10°♎26'24	0°11'05
minimum elong	-7494 Nov 24 j 12:05	10°♎26'24	0°11'03
behind sun begin	-7494 Nov 24 j 07:07	10°♎25'43	
behind sun end	-7494 Nov 24 j 17:03	10°♎27'06	
max. Earth dist.	-7494 Nov 25 j 20:54	10°♎31'07	21.04714 AU
morning rise	-7494 Dec 10 j 11:18	11°♎20'59	
retrograde	-7493 Mar 15 j 01:18	14°♎28'33	
min. Earth dist.	-7493 May 31 j 03:27	12°♎32'16	19.06043 AU
opposition	-7493 Jun 01 j 09:20	12°♎29'16	0°09'55
direct	-7493 Aug 15 j 16:49	10°♎33'28	
evening set	-7493 Nov 12 j 21:19	13°♎31'10	
conjunction	-7493 Nov 28 j 17:29	14°♎25'11	0°07'05
minimum elong	-7493 Nov 28 j 17:29	14°♎25'11	0°07'00
behind sun begin	-7493 Nov 28 j 11:22	14°♎24'20	
behind sun end	-7493 Nov 28 j 23:36	14°♎26'02	
max. Earth dist.	-7493 Nov 30 j 00:55	14°♎29'41	21.07141 AU
morning rise	-7493 Dec 14 j 17:49	15°♎19'47	
retrograde	-7492 Mar 18 j 10:31	18°♎27'11	
min. Earth dist.	-7492 Jun 03 j 11:38	16°♎30'51	19.08187 AU
opposition	-7492 Jun 04 j 17:13	16°♎27'53	0°05'28
direct	-7492 Aug 18 j 22:09	14°♎32'10	
evening set	-7492 Nov 16 j 01:51	17°♎29'30	
conjunction	-7492 Dec 01 j 23:01	18°♎23'32	0°03'03
minimum elong	-7492 Dec 01 j 23:02	18°♎23'32	0°02'57
behind sun begin	-7492 Dec 01 j 16:28	18°♎22'38	
behind sun end	-7492 Dec 02 j 05:37	18°♎24'27	
max. Earth dist.	-7492 Dec 03 j 06:33	18°♎28'02	21.08984 AU
morning rise	-7492 Dec 18 j 00:20	19°♎18'10	
retrograde	-7491 Mar 22 j 18:07	22°♎25'25	
min. Earth dist.	-7491 Jun 07 j 20:20	20°♎28'56	19.09730 AU
opposition	-7491 Jun 09 j 00:42	20°♎26'06	0°00'59
direct	-7491 Aug 23 j 04:11	18°♎30'24	
desc. node	-7491 Aug 27 j 10:51	18°♎30'52	
evening set	-7491 Nov 20 j 06:30	21°♎27'26	
conjunction	-7491 Dec 06 j 04:36	22°♎21'31	-0°01'07
minimum elong	-7491 Dec 06 j 04:35	22°♎21'30	0°01'16
behind sun begin	-7491 Dec 05 j 21:59	22°♎20'36	
behind sun end	-7491 Dec 06 j 11:11	22°♎22'25	
max. Earth dist.	-7491 Dec 07 j 10:21	22°♎25'45	21.10247 AU
morning rise	-7491 Dec 22 j 07:01	23°♎16'11	
retrograde	-7490 Mar 27 j 02:55	26°♎23'18	
min. Earth dist.	-7490 Jun 12 j 03:53	24°♎26'41	19.10707 AU

Attention, astronomical year style is used: The year -7490 in astronomical counting style is the year 7491 BCE in historical counting style.

opposition	-7490 Jun 13 j 07:37	24°♎23'54	-0°03'29
direct	-7490 Aug 27 j 08:56	22°♎28'11	
evening set	-7490 Nov 24 j 11:06	25°♎24'59	
conjunction	-7490 Dec 10 j 10:15	26°♎19'07	-0°05'10
minimum elong	-7490 Dec 10 j 10:14	26°♎19'07	0°05'21
behind sun begin	-7490 Dec 10 j 03:51	26°♎18'14	
behind sun end	-7490 Dec 10 j 16:38	26°♎20'00	
max. Earth dist.	-7490 Dec 11 j 16:00	26°♎23'21	21.10948 AU
morning rise	-7490 Dec 26 j 13:36	27°♎13'52	
	-7489 Mar 01 j 20:00	0°♏	
retrograde	-7489 Mar 31 j 09:50	0°♏20'52	
	-7489 Apr 30 j 08:38	30°℞♎	
min. Earth dist.	-7489 Jun 16 j 11:42	28°♎24'04	19.11145 AU
opposition	-7489 Jun 17 j 14:16	28°♎21'23	-0°07'56
direct	-7489 Aug 31 j 14:26	26°♎25'37	
evening set	-7489 Nov 28 j 15:45	29°♎22'14	
	-7489 Dec 09 j 20:16	0°♏	
conjunction	-7489 Dec 14 j 15:50	0°♏16'26	-0°09'09
minimum elong	-7489 Dec 14 j 15:50	0°♏16'26	0°09'21
behind sun begin	-7489 Dec 14 j 10:16	0°♏15'40	
behind sun end	-7489 Dec 14 j 21:23	0°♏17'12	
max. Earth dist.	-7489 Dec 15 j 19:55	0°♏20'26	21.11153 AU
morning rise	-7489 Dec 30 j 20:23	1°♏11'16	
retrograde	-7488 Apr 03 j 18:43	4°♏18'13	
opposition	-7488 Jun 20 j 20:34	2°♏18'37	-0°12'19
min. Earth dist.	-7488 Jun 19 j 18:43	2°♏21'13	19.11116 AU
direct	-7488 Sep 03 j 19:08	0°♏22'45	
evening set	-7488 Dec 01 j 20:40	3°♏19'18	
conjunction	-7488 Dec 17 j 21:52	4°♏13'36	-0°13'05
minimum elong	-7488 Dec 17 j 21:52	4°♏13'36	0°13'20
behind sun begin	-7488 Dec 17 j 18:03	4°♏13'04	
behind sun end	-7488 Dec 18 j 01:40	4°♏14'07	
max. Earth dist.	-7488 Dec 19 j 01:56	4°♏17'35	21.10893 AU
morning rise	-7487 Jan 03 j 03:21	5°♏08'30	
retrograde	-7487 Apr 08 j 01:05	8°♏15'24	
min. Earth dist.	-7487 Jun 24 j 01:45	6°♏18'13	19.10643 AU
opposition	-7487 Jun 25 j 02:24	6°♏15'44	-0°16'39
direct	-7487 Sep 07 j 23:37	4°♏19'47	
evening set	-7487 Dec 06 j 01:53	7°♏16'20	
conjunction	-7487 Dec 22 j 04:01	8°♏10'43	-0°16'58
minimum elong	-7487 Dec 22 j 04:00	8°♏10'43	0°17'13
max. Earth dist.	-7487 Dec 23 j 06:12	8°♏14'26	21.10228 AU
morning rise	-7486 Jan 07 j 10:38	9°♏05'44	
retrograde	-7486 Apr 12 j 10:06	12°♏12'40	
min. Earth dist.	-7486 Jun 28 j 08:22	10°♏15'18	19.09784 AU
opposition	-7486 Jun 29 j 08:10	10°♏12'53	-0°20'54
direct	-7486 Sep 12 j 04:13	8°♏16'50	
evening set	-7486 Dec 10 j 07:08	11°♏13'28	
conjunction	-7486 Dec 26 j 10:22	12°♏07'59	-0°20'46
minimum elong	-7486 Dec 26 j 10:22	12°♏07'59	0°21'04
max. Earth dist.	-7486 Dec 27 j 12:30	12°♏11'42	21.09168 AU
morning rise	-7485 Jan 11 j 17:53	13°♏03'07	
	-7485 Feb 20 j 12:24	15°♏	
retrograde	-7485 Apr 16 j 16:29	16°♏10'07	
	-7485 Jun 12 j 11:35	15°℞♏	
opposition	-7485 Jul 03 j 13:46	14°♏10'17	-0°25'04
min. Earth dist.	-7485 Jul 02 j 15:08	14°♏12'34	19.08533 AU
direct	-7485 Sep 16 j 08:14	12°♏14'07	
	-7485 Dec 11 j 05:18	15°♏	
evening set	-7485 Dec 14 j 12:57	15°♏10'56	
conjunction	-7485 Dec 30 j 17:10	16°♏05'35	-0°24'29
minimum elong	-7485 Dec 30 j 17:10	16°♏05'35	0°24'47
max. Earth dist.	-7485 Dec 31 j 17:13	16°♏09'00	21.07744 AU
morning rise	-7484 Jan 16 j 01:51	17°♏00'51	
retrograde	-7484 Apr 20 j 01:27	20°♏07'57	
opposition	-7484 Jul 06 j 19:14	18°♏08'04	-0°29'07
min. Earth dist.	-7484 Jul 05 j 21:46	18°♏10'15	19.06923 AU
direct	-7484 Sep 19 j 12:46	16°♏11'46	
evening set	-7484 Dec 17 j 19:12	19°♏08'52	
conjunction	-7483 Jan 03 j 00:34	20°♏03'41	-0°28'05
minimum elong	-7483 Jan 03 j 00:34	20°♏03'41	0°28'26
max. Earth dist.	-7483 Jan 04 j 00:12	20°♏07'02	21.05937 AU
morning rise	-7483 Jan 19 j 10:07	20°♏59'05	
retrograde	-7483 Apr 24 j 08:59	24°♏06'20	
min. Earth dist.	-7483 Jul 10 j 04:40	22°♏08'27	19.04914 AU
opposition	-7483 Jul 11 j 00:41	22°♏06'25	-0°33'02
direct	-7483 Sep 23 j 16:58	20°♏10'00	
evening set	-7483 Dec 22 j 02:00	23°♏07'28	
conjunction	-7482 Jan 07 j 08:18	24°♏02'26	-0°31'34
minimum elong	-7482 Jan 07 j 08:18	24°♏02'26	0°31'56
max. Earth dist.	-7482 Jan 08 j 05:26	24°♏05'25	21.03738 AU
morning rise	-7482 Jan 23 j 18:55	24°♏57'59	
retrograde	-7482 Apr 28 j 17:43	28°♏05'27	
min. Earth dist.	-7482 Jul 14 j 11:41	26°♏07'22	19.02508 AU
opposition	-7482 Jul 15 j 06:08	26°♏05'30	-0°36'49
direct	-7482 Sep 27 j 21:26	24°♏08'56	
evening set	-7482 Dec 26 j 09:22	27°♏06'50	
conjunction	-7481 Jan 11 j 16:48	28°♏01'59	-0°34'54
minimum elong	-7481 Jan 11 j 16:47	28°♏01'59	0°35'18
max. Earth dist.	-7481 Jan 12 j 13:09	28°♏04'52	21.01114 AU
morning rise	-7481 Jan 28 j 04:12	28°♏57'43	
	-7481 Feb 16 j 19:01	0°♐	
retrograde	-7481 May 03 j 02:33	2°♐05'24	
opposition	-7481 Jul 19 j 11:43	0°♐05'25	-0°40'26
min. Earth dist.	-7481 Jul 18 j 18:58	0°♐07'08	18.99658 AU
	-7481 Jul 21 j 16:42	30°℞♏	
direct	-7481 Oct 02 j 02:11	28°♏08'42	
	-7481 Dec 09 j 10:47	0°♐	
evening set	-7481 Dec 30 j 17:25	1°♐07'07	
conjunction	-7480 Jan 16 j 01:47	2°♐02'27	-0°38'05
minimum elong	-7480 Jan 16 j 01:46	2°♐02'27	0°38'31
max. Earth dist.	-7480 Jan 16 j 19:08	2°♐04'55	20.98042 AU
morning rise	-7480 Feb 01 j 14:16	2°♐58'22	
retrograde	-7480 May 06 j 11:47	6°♐06'20	
opposition	-7480 Jul 22 j 17:30	4°♐06'17	-0°43'51
min. Earth dist.	-7480 Jul 22 j 02:47	4°♐07'48	18.96344 AU
direct	-7480 Oct 05 j 07:03	2°♐09'20	
evening set	-7479 Jan 03 j 02:13	5°♐08'21	
conjunction	-7479 Jan 19 j 11:43	6°♐03'54	-0°41'06
minimum elong	-7479 Jan 19 j 11:43	6°♐03'54	0°41'31
max. Earth dist.	-7479 Jan 20 j 03:47	6°♐06'11	20.94469 AU
morning rise	-7479 Feb 05 j 00:54	7°♐00'00	
retrograde	-7479 May 10 j 21:20	10°♐08'14	
opposition	-7479 Jul 26 j 23:20	8°♐08'08	-0°47'05
min. Earth dist.	-7479 Jul 26 j 10:35	8°♐09'27	18.92512 AU
direct	-7479 Oct 09 j 12:43	6°♐10'56	
evening set	-7478 Jan 07 j 11:44	9°♐10'36	
conjunction	-7478 Jan 23 j 22:06	10°♐06'22	-0°43'54
minimum elong	-7478 Jan 23 j 22:06	10°♐06'22	0°44'22
max. Earth dist.	-7478 Jan 24 j 10:44	10°♐08'10	20.90394 AU
morning rise	-7478 Feb 09 j 12:17	11°♐02'40	
retrograde	-7478 May 15 j 07:20	14°♐11'13	

Attention, astronomical year style is used: The year -7478 in astronomical counting style is the year 7479 BCE in historical counting style.

opposition	-7478 Jul 31 j 05:33	12°♐11'00	-0°50'05
min. Earth dist.	-7478 Jul 30 j 19:01	12°♐12'05	18.88187 AU
direct	-7478 Oct 13 j 18:21	10°♐13'29	
evening set	-7477 Jan 11 j 21:37	13°♐13'51	
conjunction	-7477 Jan 28 j 09:06	14°♐09'51	-0°46'30
minimum elong	-7477 Jan 28 j 09:06	14°♐09'51	0°46'58
max. Earth dist.	-7477 Jan 28 j 20:26	14°♐11'28	20.85822 AU
morning rise	-7477 Feb 13 j 23:56	15°♐06'21	
retrograde	-7477 May 19 j 17:25	18°♐15'13	
opposition	-7477 Aug 04 j 11:56	16°♐14'53	-0°52'51
min. Earth dist.	-7477 Aug 04 j 03:16	16°♐15'47	18.83377 AU
direct	-7477 Oct 18 j 00:59	14°♐17'02	
evening set	-7476 Jan 16 j 08:27	17°♐18'10	
conjunction	-7476 Feb 01 j 20:47	18°♐14'24	-0°48'52
minimum elong	-7476 Feb 01 j 20:47	18°♐14'24	0°49'22
max. Earth dist.	-7476 Feb 02 j 04:38	18°♐15'31	20.80808 AU
morning rise	-7476 Feb 18 j 12:32	19°♐11'07	
retrograde	-7476 May 23 j 04:02	22°♐20'19	
opposition	-7476 Aug 07 j 18:27	20°♐19'49	-0°55'21
min. Earth dist.	-7476 Aug 07 j 12:10	20°♐20'28	18.78164 AU
direct	-7476 Oct 21 j 07:27	18°♐21'35	
evening set	-7475 Jan 19 j 19:54	21°♐23'33	
conjunction	-7475 Feb 05 j 09:19	22°♐20'03	-0°51'00
minimum elong	-7475 Feb 05 j 09:18	22°♐20'03	0°51'30
max. Earth dist.	-7475 Feb 05 j 15:54	22°♐21'00	20.75408 AU
morning rise	-7475 Feb 22 j 01:36	23°♐16'59	
retrograde	-7475 May 27 j 14:55	26°♐26'33	
opposition	-7475 Aug 12 j 01:17	24°♐25'55	-0°57'35
min. Earth dist.	-7475 Aug 11 j 20:43	24°♐26'23	18.72594 AU
direct	-7475 Oct 25 j 14:57	22°♐27'17	
evening set	-7474 Jan 24 j 08:04	25°♐30'09	
conjunction	-7474 Feb 09 j 22:11	26°♐26'54	-0°52'53
minimum elong	-7474 Feb 09 j 22:10	26°♐26'54	0°53'23
max. Earth dist.	-7474 Feb 10 j 01:24	26°♐27'22	20.69697 AU
morning rise	-7474 Feb 26 j 15:15	27°♐24'04	
	-7474 Apr 24 j 22:03	0°♑	
retrograde	-7474 Jun 01 j 02:08	0°♑34'03	
	-7474 Jul 08 j 16:07	30°℞♐	
opposition	-7474 Aug 16 j 08:29	28°♐33'14	-0°59'32
min. Earth dist.	-7474 Aug 16 j 06:11	28°♐33'29	18.66759 AU
direct	-7474 Oct 29 j 22:09	26°♐34'13	
evening set	-7473 Jan 28 j 20:54	29°♐38'03	
	-7473 Feb 04 j 07:57	0°♑	
conjunction	-7473 Feb 14 j 12:01	0°♑35'04	-0°54'30
minimum elong	-7473 Feb 14 j 12:01	0°♑35'04	0°55'01
max. Earth dist.	-7473 Feb 14 j 14:10	0°♑35'23	20.63744 AU
morning rise	-7473 Mar 03 j 05:30	1°♑32'28	
retrograde	-7473 Jun 05 j 14:18	4°♑42'53	
opposition	-7473 Aug 20 j 15:58	2°♑41'57	-1°01'12
min. Earth dist.	-7473 Aug 20 j 15:10	2°♑42'02	18.60707 AU
direct	-7473 Nov 03 j 06:37	0°♑42'31	
evening set	-7472 Feb 02 j 10:42	3°♑47'24	
conjunction	-7472 Feb 19 j 02:28	4°♑44'41	-0°55'51
minimum elong	-7472 Feb 19 j 02:28	4°♑44'41	0°56'20
max. Earth dist.	-7472 Feb 19 j 01:12	4°♑44'31	20.57611 AU
morning rise	-7472 Mar 06 j 20:40	5°♑42'21	
retrograde	-7472 Jun 09 j 02:35	8°♑53'14	
opposition	-7472 Aug 24 j 00:04	6°♑52'10	-1°02'33
min. Earth dist.	-7472 Aug 24 j 01:36	6°♑52'01	18.54503 AU
direct	-7472 Nov 06 j 14:33	4°♑52'21	
evening set	-7471 Feb 06 j 01:16	7°♑58'20	

conjunction	-7471 Feb 22 j 17:56	8°♑55'55	-0°56'54
minimum elong	-7471 Feb 22 j 17:56	8°♑55'55	0°57'25
max. Earth dist.	-7471 Feb 22 j 15:36	8°♑55'35	20.51334 AU
morning rise	-7471 Mar 11 j 12:24	9°♑53'49	
retrograde	-7471 Jun 13 j 16:28	13°♑05'12	
opposition	-7471 Aug 28 j 08:31	11°♑04'03	-1°03'34
min. Earth dist.	-7471 Aug 28 j 11:25	11°♑03'45	18.48167 AU
direct	-7471 Nov 11 j 00:13	9°♑03'52	
evening set	-7470 Feb 10 j 16:49	12°♑11'01	
conjunction	-7470 Feb 27 j 10:00	13°♑08'54	-0°57'40
minimum elong	-7470 Feb 27 j 10:00	13°♑08'54	0°58'10
max. Earth dist.	-7470 Feb 27 j 04:15	13°♑08'04	20.44957 AU
morning rise	-7470 Mar 16 j 05:01	14°♑07'03	
retrograde	-7470 Jun 18 j 06:00	17°♑18'58	
opposition	-7470 Sep 01 j 17:44	15°♑17'46	-1°04'16
min. Earth dist.	-7470 Sep 01 j 23:01	15°♑17'12	18.41754 AU
direct	-7470 Nov 15 j 09:19	13°♑17'12	
evening set	-7469 Feb 15 j 09:01	16°♑25'35	
conjunction	-7469 Mar 04 j 03:02	17°♑23'45	-0°58'07
minimum elong	-7469 Mar 04 j 03:02	17°♑23'45	0°58'37
max. Earth dist.	-7469 Mar 03 j 20:12	17°♑22'46	20.38501 AU
morning rise	-7469 Mar 20 j 22:14	18°♑22'10	
retrograde	-7469 Jun 22 j 21:34	21°♑34'39	
opposition	-7469 Sep 06 j 03:29	19°♑33'24	-1°04'37
min. Earth dist.	-7469 Sep 06 j 10:06	19°♑32'42	18.35249 AU
direct	-7469 Nov 19 j 20:03	17°♑32'30	
evening set	-7468 Feb 20 j 02:36	20°♑42'09	
conjunction	-7468 Mar 07 j 21:00	21°♑40'38	-0°58'15
minimum elong	-7468 Mar 07 j 21:00	21°♑40'38	0°58'45
max. Earth dist.	-7468 Mar 07 j 10:38	21°♑39'06	20.31955 AU
morning rise	-7468 Mar 24 j 16:35	22°♑39'17	
retrograde	-7468 Jun 26 j 12:38	25°♑52'21	
opposition	-7468 Sep 09 j 13:53	23°♑51'04	-1°04'37
min. Earth dist.	-7468 Sep 09 j 23:16	23°♑50'04	18.28662 AU
direct	-7468 Nov 23 j 07:05	21°♑49'47	
evening set	-7467 Feb 23 j 21:02	25°♑00'47	
conjunction	-7467 Mar 12 j 16:05	25°♑59'33	-0°58'04
minimum elong	-7467 Mar 12 j 16:05	25°♑59'33	0°58'32
max. Earth dist.	-7467 Mar 12 j 04:18	25°♑57'50	20.25313 AU
morning rise	-7467 Mar 29 j 11:40	26°♑58'28	
	-7467 Jun 09 j 15:15	0°♒	
retrograde	-7467 Jul 01 j 05:15	0°♒12'07	
	-7467 Jul 22 j 19:01	30°℞♑	
opposition	-7467 Sep 14 j 01:06	28°♑10'48	-1°04'14
min. Earth dist.	-7467 Sep 14 j 11:49	28°♑09'39	18.21963 AU
direct	-7467 Nov 27 j 19:24	26°♑09'10	
evening set	-7466 Feb 28 j 16:28	29°♑21'29	
	-7466 Mar 11 j 16:31	0°♒	
conjunction	-7466 Mar 17 j 11:45	0°♒20'33	-0°57'33
minimum elong	-7466 Mar 17 j 11:45	0°♒20'33	0°58'01
max. Earth dist.	-7466 Mar 16 j 20:25	0°♒18'17	20.18554 AU
morning rise	-7466 Apr 03 j 07:30	1°♒19'43	
retrograde	-7466 Jul 05 j 21:31	4°♒33'57	
opposition	-7466 Sep 18 j 13:11	2°♒32'34	-1°03'29
min. Earth dist.	-7466 Sep 19 j 02:45	2°♒31'06	18.15158 AU
direct	-7466 Dec 02 j 08:32	0°♒30'32	
evening set	-7465 Mar 05 j 12:47	3°♒44'12	
conjunction	-7465 Mar 22 j 08:34	4°♒43'34	-0°56'41
minimum elong	-7465 Mar 22 j 08:34	4°♒43'34	0°57'07
max. Earth dist.	-7465 Mar 21 j 15:38	4°♒41'03	20.11693 AU
morning rise	-7465 Apr 08 j 04:13	5°♒42'58	

Attention, astronomical year style is used: The year -7465 in astronomical counting style is the year 7466 BCE in historical counting style.

retrograde	-7465 Jul 10 j 14:57	8°♒57'46	
opposition	-7465 Sep 23 j 01:49	6°♒56'18	-1°02'22
min. Earth dist.	-7465 Sep 23 j 16:37	6°♒54'42	18.08244 AU
direct	-7465 Dec 06 j 23:23	4°♒53'52	
evening set	-7464 Mar 09 j 10:15	8°♒08'52	
max. Earth dist.	-7464 Mar 25 j 09:51	9°♒05'30	20.04738 AU
conjunction	-7464 Mar 26 j 06:11	9°♒08'31	-0°55'28
minimum elong	-7464 Mar 26 j 06:11	9°♒08'31	0°55'54
morning rise	-7464 Apr 12 j 01:48	10°♒08'09	
retrograde	-7464 Jul 14 j 07:48	13°♒23'31	
opposition	-7464 Sep 26 j 15:27	11°♒21'56	-1°00'51
min. Earth dist.	-7464 Sep 27 j 09:08	11°♒20'02	18.01272 AU
direct	-7464 Dec 10 j 14:31	9°♒19'03	
evening set	-7463 Mar 14 j 08:21	12°♒35'24	
max. Earth dist.	-7463 Mar 30 j 06:38	13°♒32'03	19.97757 AU
conjunction	-7463 Mar 31 j 04:32	13°♒35'20	-0°53'55
minimum elong	-7463 Mar 31 j 04:33	13°♒35'20	0°54'20
morning rise	-7463 Apr 16 j 23:54	14°♒35'11	
	-7463 Apr 24 j 04:23	15°♒	
retrograde	-7463 Jul 19 j 02:10	17°♒51'05	
opposition	-7463 Oct 01 j 05:38	15°♒49'23	-0°58'58
min. Earth dist.	-7463 Oct 02 j 00:13	15°♒47'22	17.94297 AU
	-7463 Oct 20 j 19:54	15°℞♒	
direct	-7463 Dec 15 j 07:58	13°♒46'03	
	-7462 Feb 07 j 14:30	15°♒	
evening set	-7462 Mar 19 j 07:21	17°♒03'43	
max. Earth dist.	-7462 Apr 04 j 03:01	18°♒00'14	19.90811 AU
conjunction	-7462 Apr 05 j 03:32	18°♒03'55	-0°52'02
minimum elong	-7462 Apr 05 j 03:33	18°♒03'55	0°52'25
morning rise	-7462 Apr 21 j 22:39	19°♒03'59	
retrograde	-7462 Jul 23 j 19:42	22°♒20'24	
opposition	-7462 Oct 05 j 20:43	20°♒18'35	-0°56'43
min. Earth dist.	-7462 Oct 06 j 17:55	20°♒16'17	17.87415 AU
direct	-7462 Dec 20 j 00:45	18°♒14'48	
evening set	-7461 Mar 24 j 06:55	21°♒33'47	
max. Earth dist.	-7461 Apr 09 j 01:14	22°♒30'19	19.84004 AU
conjunction	-7461 Apr 10 j 03:10	22°♒34'14	-0°49'49
minimum elong	-7461 Apr 10 j 03:11	22°♒34'14	0°50'11
morning rise	-7461 Apr 26 j 21:58	23°♒34'30	
retrograde	-7461 Jul 28 j 15:25	26°♒51'26	
opposition	-7461 Oct 10 j 12:26	24°♒49'29	-0°54'06
min. Earth dist.	-7461 Oct 11 j 10:09	24°♒47'07	17.80693 AU
direct	-7461 Dec 24 j 20:19	22°♒45'16	
evening set	-7460 Mar 28 j 07:24	26°♒05'33	
max. Earth dist.	-7460 Apr 12 j 23:47	27°♒02'02	19.77383 AU
conjunction	-7460 Apr 14 j 03:31	27°♒06'14	-0°47'18
minimum elong	-7460 Apr 14 j 03:32	27°♒06'14	0°47'36
morning rise	-7460 Apr 30 j 21:47	28°♒06'41	
	-7460 Jun 05 j 05:27	0°♓	
retrograde	-7460 Aug 01 j 09:57	1°♓24'08	
	-7460 Sep 29 j 10:24	30°℞♒	
opposition	-7460 Oct 14 j 05:04	29°♒22'04	-0°51'08
min. Earth dist.	-7460 Oct 15 j 05:05	29°♒19'28	17.74213 AU
direct	-7460 Dec 28 j 14:30	27°♒17'26	
	-7459 Mar 22 j 03:16	0°♓	
evening set	-7459 Apr 02 j 08:31	0°♓39'00	
max. Earth dist.	-7459 Apr 17 j 23:18	1°♓35'29	19.71057 AU
conjunction	-7459 Apr 19 j 04:23	1°♓39'54	-0°44'27
minimum elong	-7459 Apr 19 j 04:23	1°♓39'54	0°44'44
morning rise	-7459 May 05 j 22:10	2°♓40'32	
retrograde	-7459 Aug 06 j 07:16	5°♓58'29	
opposition	-7459 Oct 18 j 22:29	3°♓56'20	-0°47'49
min. Earth dist.	-7459 Oct 19 j 22:32	3°♓53'43	17.68055 AU
direct	-7458 Jan 02 j 11:53	1°♓51'20	
evening set	-7458 Apr 07 j 10:04	5°♓14'08	
max. Earth dist.	-7458 Apr 22 j 23:48	6°♓10'41	19.65073 AU
conjunction	-7458 Apr 24 j 05:39	6°♓15'15	-0°41'19
minimum elong	-7458 Apr 24 j 05:40	6°♓15'15	0°41'34
morning rise	-7458 May 10 j 22:41	7°♓16'02	
retrograde	-7458 Aug 11 j 03:07	10°♓34'29	
opposition	-7458 Oct 23 j 16:52	8°♓32'17	-0°44'11
min. Earth dist.	-7458 Oct 24 j 18:43	8°♓29'28	17.62278 AU
direct	-7457 Jan 07 j 07:27	6°♓26'57	
evening set	-7457 Apr 12 j 12:27	9°♓50'59	
max. Earth dist.	-7457 Apr 28 j 00:19	10°♓47'29	19.59511 AU
conjunction	-7457 Apr 29 j 07:33	10°♓52'17	-0°37'54
minimum elong	-7457 Apr 29 j 07:33	10°♓52'17	0°38'07
morning rise	-7457 May 15 j 23:59	11°♓53'13	
retrograde	-7457 Aug 16 j 01:37	15°♓12'09	
opposition	-7457 Oct 28 j 11:48	13°♓09'56	-0°40'14
min. Earth dist.	-7457 Oct 29 j 13:33	13°♓07'07	17.56931 AU
direct	-7456 Jan 12 j 06:11	11°♓04'20	
evening set	-7456 Apr 16 j 15:25	14°♓29'33	
max. Earth dist.	-7456 May 02 j 02:49	15°♓26'12	19.54381 AU
conjunction	-7456 May 03 j 10:06	15°♓31'01	-0°34'13
minimum elong	-7456 May 03 j 10:07	15°♓31'01	0°34'24
morning rise	-7456 May 20 j 01:35	16°♓32'05	
retrograde	-7456 Aug 19 j 23:17	19°♓51'28	
opposition	-7456 Nov 01 j 07:54	17°♓49'18	-0°36'00
min. Earth dist.	-7456 Nov 02 j 11:09	17°♓46'19	17.52030 AU
direct	-7455 Jan 16 j 03:34	15°♓43'29	
evening set	-7455 Apr 21 j 18:54	19°♓09'50	
max. Earth dist.	-7455 May 07 j 04:09	20°♓06'23	19.49713 AU
conjunction	-7455 May 08 j 12:48	20°♓11'26	-0°30'17
minimum elong	-7455 May 08 j 12:48	20°♓11'26	0°30'25
morning rise	-7455 May 25 j 03:31	21°♓12'36	
retrograde	-7455 Aug 24 j 22:49	24°♓32'28	
opposition	-7455 Nov 06 j 04:42	22°♓30'20	-0°31'29
min. Earth dist.	-7455 Nov 07 j 07:46	22°♓27'23	17.47587 AU
direct	-7454 Jan 21 j 03:21	20°♓24'21	
evening set	-7454 Apr 26 j 22:49	23°♓51'45	
max. Earth dist.	-7454 May 12 j 08:02	24°♓48'31	19.45482 AU
conjunction	-7454 May 13 j 16:08	24°♓53'30	-0°26'07
minimum elong	-7454 May 13 j 16:08	24°♓53'30	0°26'13
morning rise	-7454 May 30 j 05:43	25°♓54'44	
retrograde	-7454 Aug 29 j 22:08	29°♓15'02	
opposition	-7454 Nov 11 j 02:24	27°♓12'58	-0°26'44
min. Earth dist.	-7454 Nov 12 j 06:37	27°♓09'53	17.43572 AU
direct	-7453 Jan 26 j 02:29	25°♓06'50	
evening set	-7453 May 02 j 03:17	28°♓35'13	
max. Earth dist.	-7453 May 17 j 10:00	29°♓31'48	19.41680 AU
conjunction	-7453 May 18 j 19:37	29°♓37'02	-0°21'45
minimum elong	-7453 May 18 j 19:37	29°♓37'02	0°21'48
	-7453 May 24 j 23:09	0°♈	
morning rise	-7453 Jun 04 j 08:21	0°♈38'21	
retrograde	-7453 Sep 03 j 22:07	3°♈59'02	
opposition	-7453 Nov 16 j 00:53	1°♈57'01	-0°21'46
min. Earth dist.	-7453 Nov 17 j 05:04	1°♈53'56	17.39976 AU
	-7452 Jan 12 j 09:38	30°℞♓	
direct	-7452 Jan 31 j 03:20	29°♓50'45	
	-7452 Feb 18 j 19:30	0°♈	
evening set	-7452 May 06 j 07:57	3°♈20'00	

Attention, astronomical year style is used: The year -7452 in astronomical counting style is the year 7453 BCE in historical counting style.

conjunction	-7452 May 22 j 23:31	4°♈21'54	-0°17'13
minimum elong	-7452 May 22 j 23:31	4°♈21'54	0°17'13
max. Earth dist.	-7452 May 21 j 14:48	4°♈16'47	19.38274 AU
morning rise	-7452 Jun 08 j 10:56	5°♈23'14	
retrograde	-7452 Sep 07 j 22:28	8°♈44'15	
opposition	-7452 Nov 20 j 00:18	6°♈42'16	-0°16'38
min. Earth dist.	-7452 Nov 21 j 05:03	6°♈39'08	17.36768 AU
direct	-7451 Feb 04 j 05:03	4°♈35'55	
evening set	-7451 May 11 j 12:58	8°♈05'54	
max. Earth dist.	-7451 May 26 j 17:25	9°♈02'30	19.35274 AU
conjunction	-7451 May 28 j 03:21	9°♈07'49	-0°12'33
minimum elong	-7451 May 28 j 03:21	9°♈07'49	0°12'32
behind sun begin	-7451 May 27 j 23:04	9°♈07'10	
behind sun end	-7451 May 28 j 07:38	9°♈08'29	
morning rise	-7451 Jun 13 j 13:44	10°♈09'10	
retrograde	-7451 Sep 12 j 21:49	13°♈30'29	
opposition	-7451 Nov 25 j 00:19	11°♈28'31	-0°11'22
min. Earth dist.	-7451 Nov 26 j 04:59	11°♈25'23	17.33985 AU
direct	-7450 Feb 09 j 07:21	9°♈22'02	
evening set	-7450 May 16 j 17:43	12°♈52'39	
max. Earth dist.	-7450 May 31 j 22:35	13°♈49'27	19.32699 AU
conjunction	-7450 Jun 02 j 07:12	13°♈54'35	-0°07'48
minimum elong	-7450 Jun 02 j 07:12	13°♈54'35	0°07'44
behind sun begin	-7450 Jun 02 j 01:08	13°♈53'39	
behind sun end	-7450 Jun 02 j 13:16	13°♈55'30	
morning rise	-7450 Jun 18 j 16:16	14°♈55'54	
retrograde	-7450 Sep 17 j 22:21	18°♈17'26	
opposition	-7450 Nov 30 j 00:59	16°♈15'29	-0°06'00
min. Earth dist.	-7450 Dec 01 j 05:29	16°♈12'22	17.31618 AU
direct	-7449 Feb 14 j 11:32	14°♈08'55	
evening set	-7449 May 21 j 22:46	17°♈40'02	
max. Earth dist.	-7449 Jun 06 j 01:45	18°♈36'42	19.30564 AU
conjunction	-7449 Jun 07 j 10:58	18°♈41'56	-0°02'59
minimum elong	-7449 Jun 07 j 10:58	18°♈41'56	0°02'53
behind sun begin	-7449 Jun 07 j 04:16	18°♈40'54	
behind sun end	-7449 Jun 07 j 17:40	18°♈42'57	
morning rise	-7449 Jun 23 j 18:52	19°♈43'12	
retrograde	-7449 Sep 22 j 21:12	23°♈04'55	
opposition	-7449 Dec 05 j 02:04	21°♈02'57	-0°00'36
min. Earth dist.	-7449 Dec 06 j 06:31	20°♈59'51	17.29728 AU
asc. node	-7448 Jan 13 j 20:48	19°♈30'27	
direct	-7448 Feb 19 j 15:20	18°♈56'18	
evening set	-7448 May 26 j 03:32	22°♈27'47	
max. Earth dist.	-7448 Jun 10 j 07:01	23°♈24'39	19.28927 AU
conjunction	-7448 Jun 11 j 14:36	23°♈29'38	0°02'00
minimum elong	-7448 Jun 11 j 14:36	23°♈29'38	0°02'09
behind sun begin	-7448 Jun 11 j 07:54	23°♈28'36	
behind sun end	-7448 Jun 11 j 21:18	23°♈30'40	
morning rise	-7448 Jun 27 j 21:09	24°♈30'50	
retrograde	-7448 Sep 26 j 21:52	27°♈52'39	
opposition	-7448 Dec 09 j 03:47	25°♈50'41	0°04'49
min. Earth dist.	-7448 Dec 10 j 07:08	25°♈47'43	17.28341 AU
direct	-7447 Feb 23 j 21:07	23°♈44'00	
evening set	-7447 May 31 j 07:57	27°♈15'42	
max. Earth dist.	-7447 Jun 15 j 10:35	28°♈12'33	19.27818 AU
conjunction	-7447 Jun 16 j 17:40	28°♈17'27	0°06'50
minimum elong	-7447 Jun 16 j 17:40	28°♈17'27	0°07'02
behind sun begin	-7447 Jun 16 j 11:28	28°♈16'30	
behind sun end	-7447 Jun 16 j 23:52	28°♈18'25	
morning rise	-7447 Jul 02 j 22:57	29°♈18'35	
	-7447 Jul 14 j 09:28	0°♉	
retrograde	-7447 Oct 01 j 20:56	2°♉40'28	
opposition	-7447 Dec 14 j 05:55	0°♉38'29	0°10'12
min. Earth dist.	-7447 Dec 15 j 08:55	0°♉35'33	17.27529 AU
	-7447 Dec 29 j 06:02	30°℞♈	
direct	-7446 Mar 01 j 01:00	28°♈31'45	
	-7446 Apr 29 j 07:48	0°♉	
evening set	-7446 Jun 05 j 12:01	2°♉03'35	
conjunction	-7446 Jun 21 j 20:28	3°♉05'13	0°11'36
minimum elong	-7446 Jun 21 j 20:29	3°♉05'13	0°11'49
behind sun begin	-7446 Jun 21 j 15:49	3°♉04'30	
behind sun end	-7446 Jun 22 j 01:08	3°♉05'57	
max. Earth dist.	-7446 Jun 20 j 15:14	3°♉00'36	19.27308 AU
morning rise	-7446 Jul 08 j 00:29	4°♉06'14	
retrograde	-7446 Oct 06 j 21:58	7°♉28'07	
opposition	-7446 Dec 19 j 08:09	5°♉26'09	0°15'30
min. Earth dist.	-7446 Dec 20 j 09:13	5°♉23'26	17.27320 AU
direct	-7445 Mar 06 j 06:38	3°♉19'26	
evening set	-7445 Jun 10 j 15:46	6°♉51'15	
conjunction	-7445 Jun 26 j 22:53	7°♉52'46	0°16'18
minimum elong	-7445 Jun 26 j 22:53	7°♉52'46	0°16'34
max. Earth dist.	-7445 Jun 25 j 19:07	7°♉48'22	19.27419 AU
morning rise	-7445 Jul 13 j 01:31	8°♉53'38	
retrograde	-7445 Oct 11 j 21:28	12°♉15'29	
opposition	-7445 Dec 24 j 10:58	10°♉13'33	0°20'42
min. Earth dist.	-7445 Dec 25 j 11:24	10°♉10'54	17.27767 AU
direct	-7444 Mar 10 j 10:01	8°♉06'54	
evening set	-7444 Jun 14 j 18:58	11°♉38'36	
max. Earth dist.	-7444 Jun 29 j 22:46	12°♉35'50	19.28206 AU
conjunction	-7444 Jul 01 j 00:39	12°♉39'56	0°20'52
minimum elong	-7444 Jul 01 j 00:39	12°♉39'56	0°21'10
morning rise	-7444 Jul 17 j 02:02	13°♉40'39	
	-7444 Aug 08 j 15:22	15°♉	
retrograde	-7444 Oct 15 j 22:56	17°♉02'27	
opposition	-7444 Dec 28 j 13:55	15°♉00'34	0°25'44
	-7444 Dec 28 j 19:10	15°℞♉	
min. Earth dist.	-7444 Dec 29 j 11:37	14°♉58'13	17.28884 AU
direct	-7443 Mar 15 j 15:36	12°♉54'04	
	-7443 May 26 j 10:04	15°♉	
evening set	-7443 Jun 19 j 21:39	16°♉25'32	
max. Earth dist.	-7443 Jul 05 j 02:35	17°♉22'58	19.29664 AU
conjunction	-7443 Jul 06 j 02:02	17°♉26'41	0°25'19
minimum elong	-7443 Jul 06 j 02:02	17°♉26'41	0°25'38
morning rise	-7443 Jul 22 j 02:02	18°♉27'13	
retrograde	-7443 Oct 20 j 22:08	21°♉48'55	
opposition	-7442 Jan 02 j 17:05	19°♉47'08	0°30'36
min. Earth dist.	-7442 Jan 03 j 13:58	19°♉44'53	17.30679 AU
direct	-7442 Mar 20 j 18:32	17°♉40'50	
evening set	-7442 Jun 24 j 23:45	21°♉11'57	
max. Earth dist.	-7442 Jul 10 j 04:53	22°♉09'26	19.31792 AU
conjunction	-7442 Jul 11 j 02:43	22°♉12'54	0°29'34
minimum elong	-7442 Jul 11 j 02:42	22°♉12'54	0°29'56
morning rise	-7442 Jul 27 j 01:37	23°♉13'14	
retrograde	-7442 Oct 25 j 23:34	26°♉34'48	
opposition	-7441 Jan 07 j 20:15	24°♉33'08	0°35'15
min. Earth dist.	-7441 Jan 08 j 14:11	24°♉31'13	17.33106 AU
direct	-7441 Mar 26 j 00:02	22°♉27'07	
evening set	-7441 Jun 30 j 01:14	25°♉57'47	
max. Earth dist.	-7441 Jul 15 j 08:05	26°♉55'30	19.34513 AU
conjunction	-7441 Jul 16 j 02:57	26°♉58'30	0°33'37
minimum elong	-7441 Jul 16 j 02:56	26°♉58'29	0°34'00
morning rise	-7441 Aug 01 j 00:28	27°♉58'37	
	-7441 Sep 06 j 11:42	0°♊	

Attention, astronomical year style is used: The year -7441 in astronomical counting style is the year 7442 BCE in historical counting style.

retrograde	-7441 Oct 30 j 22:12	1°♊20'00	
	-7441 Dec 27 j 11:07	30°℞♉	
opposition	-7440 Jan 12 j 23:39	29°♉18'30	0°39'38
min. Earth dist.	-7440 Jan 13 j 16:41	29°♉16'41	17.36105 AU
direct	-7440 Mar 30 j 03:24	27°♉12'46	
	-7440 Jun 22 j 05:55	0°♊	
evening set	-7440 Jul 04 j 02:12	0°♊42'52	
max. Earth dist.	-7440 Jul 19 j 08:56	1°♊40'33	19.37787 AU
conjunction	-7440 Jul 20 j 02:25	1°♊43'20	0°37'26
minimum elong	-7440 Jul 20 j 02:25	1°♊43'20	0°37'52
morning rise	-7440 Aug 04 j 22:57	2°♊43'14	
retrograde	-7440 Nov 03 j 22:56	6°♊04'25	
opposition	-7439 Jan 17 j 03:00	4°♊03'02	0°43'45
min. Earth dist.	-7439 Jan 17 j 17:02	4°♊01'32	17.39627 AU
direct	-7439 Apr 04 j 08:44	1°♊57'38	
evening set	-7439 Jul 09 j 02:11	5°♊27'03	
max. Earth dist.	-7439 Jul 24 j 11:04	6°♊24'59	19.41538 AU
conjunction	-7439 Jul 25 j 01:16	6°♊27'14	0°40'59
minimum elong	-7439 Jul 25 j 01:16	6°♊27'14	0°41'25
morning rise	-7439 Aug 09 j 20:32	7°♊26'54	
retrograde	-7439 Nov 08 j 20:58	10°♊47'49	
opposition	-7438 Jan 22 j 06:20	8°♊46'35	0°47'33
min. Earth dist.	-7438 Jan 22 j 19:14	8°♊45'13	17.43592 AU
direct	-7438 Apr 09 j 12:10	6°♊41'31	
evening set	-7438 Jul 14 j 01:41	10°♊10'08	
conjunction	-7438 Jul 29 j 23:20	11°♊10'02	0°44'15
minimum elong	-7438 Jul 29 j 23:20	11°♊10'02	0°44'42
max. Earth dist.	-7438 Jul 29 j 10:15	11°♊07'58	19.45709 AU
morning rise	-7438 Aug 14 j 17:43	12°♊09'27	
retrograde	-7438 Nov 13 j 20:33	15°♊30'03	
opposition	-7437 Jan 27 j 09:12	13°♊28'56	0°51'00
min. Earth dist.	-7437 Jan 27 j 19:22	13°♊27'51	17.47953 AU
direct	-7437 Apr 14 j 16:46	11°♊24'11	
evening set	-7437 Jul 19 j 00:12	14°♊51'56	
conjunction	-7437 Aug 03 j 20:49	15°♊51'33	0°47'11
minimum elong	-7437 Aug 03 j 20:49	15°♊51'33	0°47'39
max. Earth dist.	-7437 Aug 03 j 11:04	15°♊50'01	19.50244 AU
morning rise	-7437 Aug 19 j 14:04	16°♊50'42	
retrograde	-7437 Nov 18 j 17:31	20°♊10'55	
opposition	-7436 Feb 01 j 12:05	18°♊09'55	0°54'05
min. Earth dist.	-7436 Feb 01 j 20:42	18°♊09'01	17.52649 AU
direct	-7436 Apr 18 j 20:04	16°♊05'31	
evening set	-7436 Jul 22 j 21:50	19°♊32'15	
conjunction	-7436 Aug 07 j 17:08	20°♊31'34	0°49'48
minimum elong	-7436 Aug 07 j 17:08	20°♊31'34	0°50'16
max. Earth dist.	-7436 Aug 07 j 08:37	20°♊30'14	19.55104 AU
morning rise	-7436 Aug 23 j 09:40	21°♊30'28	
retrograde	-7436 Nov 22 j 15:42	24°♊50'17	
opposition	-7435 Feb 05 j 14:30	22°♊49'21	0°56'48
min. Earth dist.	-7435 Feb 05 j 20:29	22°♊48'43	17.57666 AU
direct	-7435 Apr 23 j 22:54	20°♊45'16	
evening set	-7435 Jul 27 j 18:24	24°♊10'56	
conjunction	-7435 Aug 12 j 12:50	25°♊09'57	0°52'04
minimum elong	-7435 Aug 12 j 12:50	25°♊09'57	0°52'34
max. Earth dist.	-7435 Aug 12 j 07:45	25°♊09'09	19.60268 AU
morning rise	-7435 Aug 28 j 04:26	26°♊08'34	
retrograde	-7435 Nov 27 j 11:46	29°♊27'55	
opposition	-7434 Feb 10 j 16:19	27°♊27'04	0°59'07
min. Earth dist.	-7434 Feb 10 j 20:17	27°♊26'39	17.62968 AU
direct	-7434 Apr 29 j 01:10	25°♊23'18	
evening set	-7434 Aug 01 j 14:04	28°♊47'48	
conjunction	-7434 Aug 17 j 07:24	29°♊46'30	0°53'59
minimum elong	-7434 Aug 17 j 07:24	29°♊46'30	0°54'29
max. Earth dist.	-7434 Aug 17 j 03:44	29°♊45'55	19.65719 AU
	-7434 Aug 20 j 21:32	0°♋	
morning rise	-7434 Sep 01 j 22:28	0°♋44'51	
retrograde	-7434 Dec 02 j 08:08	4°♋03'43	
opposition	-7433 Feb 15 j 17:38	2°♋02'54	1°01'02
min. Earth dist.	-7433 Feb 15 j 19:14	2°♋02'44	17.68568 AU
	-7433 Apr 29 j 11:33	30°℞♊	
direct	-7433 May 04 j 01:14	29°♊59'27	
	-7433 May 08 j 14:39	0°♋	
evening set	-7433 Aug 06 j 08:29	3°♋22'43	
conjunction	-7433 Aug 22 j 01:02	4°♋21'06	0°55'32
minimum elong	-7433 Aug 22 j 01:02	4°♋21'06	0°56'03
max. Earth dist.	-7433 Aug 22 j 00:55	4°♋21'05	19.71462 AU
morning rise	-7433 Sep 06 j 15:21	5°♋19'11	
retrograde	-7433 Dec 07 j 03:46	8°♋37'31	
opposition	-7432 Feb 20 j 18:24	6°♋36'45	1°02'33
min. Earth dist.	-7432 Feb 20 j 17:18	6°♋36'52	17.74451 AU
direct	-7432 May 08 j 02:28	4°♋33'39	
evening set	-7432 Aug 10 j 02:05	7°♋55'37	
conjunction	-7432 Aug 25 j 17:40	8°♋53'41	0°56'44
minimum elong	-7432 Aug 25 j 17:40	8°♋53'41	0°57'15
max. Earth dist.	-7432 Aug 25 j 19:27	8°♋53'58	19.77502 AU
morning rise	-7432 Sep 10 j 07:35	9°♋51'31	
retrograde	-7432 Dec 10 j 22:43	13°♋09'18	
opposition	-7431 Feb 24 j 18:30	11°♋08'34	1°03'40
min. Earth dist.	-7431 Feb 24 j 15:07	11°♋08'55	17.80660 AU
direct	-7431 May 12 j 23:58	9°♋05'49	
evening set	-7431 Aug 14 j 18:26	12°♋26'29	
conjunction	-7431 Aug 30 j 09:26	13°♋24'15	0°57'34
minimum elong	-7431 Aug 30 j 09:26	13°♋24'15	0°58'04
max. Earth dist.	-7431 Aug 30 j 14:38	13°♋25'03	19.83861 AU
morning rise	-7431 Sep 14 j 22:50	14°♋21'48	
retrograde	-7431 Dec 15 j 17:55	17°♋39'01	
opposition	-7430 Mar 01 j 17:47	15°♋38'23	1°04'23
min. Earth dist.	-7430 Mar 01 j 11:18	15°♋39'03	17.87158 AU
direct	-7430 May 17 j 23:43	13°♋36'01	
evening set	-7430 Aug 19 j 10:01	16°♋55'22	
conjunction	-7430 Sep 04 j 00:16	17°♋52'49	0°58'04
minimum elong	-7430 Sep 04 j 00:16	17°♋52'49	0°58'34
max. Earth dist.	-7430 Sep 04 j 07:30	17°♋53'56	19.90498 AU
morning rise	-7430 Sep 19 j 13:25	18°♋50'07	
retrograde	-7430 Dec 20 j 11:25	22°♋06'46	
opposition	-7429 Mar 06 j 16:22	20°♋06'14	1°04'42
min. Earth dist.	-7429 Mar 06 j 07:57	20°♋07'06	17.93937 AU
direct	-7429 May 22 j 19:30	18°♋04'18	
evening set	-7429 Aug 24 j 00:34	21°♋22'19	
conjunction	-7429 Sep 08 j 14:22	22°♋19'28	0°58'12
minimum elong	-7429 Sep 08 j 14:22	22°♋19'28	0°58'41
max. Earth dist.	-7429 Sep 09 j 00:39	22°♋21'03	19.97401 AU
morning rise	-7429 Sep 24 j 03:12	23°♋16'30	
retrograde	-7429 Dec 25 j 05:38	26°♋32'36	
opposition	-7428 Mar 10 j 14:16	24°♋32'11	1°04'39
min. Earth dist.	-7428 Mar 10 j 02:35	24°♋33'23	18.00935 AU
direct	-7428 May 26 j 17:48	22°♋30'43	
evening set	-7428 Aug 27 j 14:11	25°♋47'22	
conjunction	-7428 Sep 12 j 03:28	26°♋44'15	0°58'00
minimum elong	-7428 Sep 12 j 03:28	26°♋44'15	0°58'29
max. Earth dist.	-7428 Sep 12 j 15:54	26°♋46'09	20.04485 AU
morning rise	-7428 Sep 27 j 16:16	27°♋41'02	

Attention, astronomical year style is used: The year -7428 in astronomical counting style is the year 7429 BCE in historical counting style.

	-7428 Nov 11 j 21:15	0°♌	
retrograde	-7428 Dec 28 j 22:08	0°♌56'35	
	-7427 Feb 16 j 03:52	30°℞♋	
opposition	-7427 Mar 15 j 11:34	28°♋56'18	1°04'12
min. Earth dist.	-7427 Mar 14 j 22:25	28°♋57'39	18.08094 AU
direct	-7427 May 31 j 11:58	26°♋55'17	
	-7427 Aug 29 j 03:24	0°♌	
evening set	-7427 Sep 01 j 03:00	0°♌10'37	
conjunction	-7427 Sep 16 j 16:01	1°♌07'13	0°57'27
minimum elong	-7427 Sep 16 j 16:01	1°♌07'13	0°57'55
max. Earth dist.	-7427 Sep 17 j 06:55	1°♌09'29	20.11691 AU
morning rise	-7427 Oct 02 j 04:44	2°♌03'46	
retrograde	-7426 Jan 02 j 14:44	5°♌18'44	
opposition	-7426 Mar 20 j 07:46	3°♌18'36	1°03'23
min. Earth dist.	-7426 Mar 19 j 15:37	3°♌20'15	18.15319 AU
direct	-7426 Jun 05 j 08:31	1°♌18'03	
evening set	-7426 Sep 05 j 15:06	4°♌32'03	
conjunction	-7426 Sep 21 j 03:47	5°♌28'23	0°56'35
minimum elong	-7426 Sep 21 j 03:47	5°♌28'23	0°57'01
max. Earth dist.	-7426 Sep 21 j 20:37	5°♌30'56	20.18914 AU
morning rise	-7426 Oct 06 j 16:35	6°♌24'42	
retrograde	-7425 Jan 07 j 05:45	9°♌39'08	
min. Earth dist.	-7425 Mar 24 j 10:29	7°♌40'51	18.22537 AU
opposition	-7425 Mar 25 j 03:34	7°♌39'07	1°02'13
direct	-7425 Jun 10 j 01:11	5°♌39'00	
evening set	-7425 Sep 10 j 02:16	8°♌51'42	
conjunction	-7425 Sep 25 j 14:49	9°♌47'45	0°55'24
minimum elong	-7425 Sep 25 j 14:49	9°♌47'45	0°55'49
max. Earth dist.	-7425 Sep 26 j 09:34	9°♌50'36	20.26098 AU
morning rise	-7425 Oct 11 j 03:43	10°♌43'51	
retrograde	-7424 Jan 11 j 21:08	13°♌57'43	
opposition	-7424 Mar 28 j 22:30	11°♌57'50	1°00'41
min. Earth dist.	-7424 Mar 28 j 02:36	11°♌59'51	18.29665 AU
direct	-7424 Jun 13 j 19:36	9°♌58'08	
evening set	-7424 Sep 13 j 12:52	13°♌09'31	
conjunction	-7424 Sep 29 j 01:18	14°♌05'20	0°53'54
minimum elong	-7424 Sep 29 j 01:18	14°♌05'20	0°54'17
max. Earth dist.	-7424 Sep 29 j 21:48	14°♌08'25	20.33147 AU
morning rise	-7424 Oct 14 j 14:27	15°♌01'14	
	-7424 Oct 14 j 06:05	15°♌	
retrograde	-7423 Jan 15 j 10:34	18°♌14'32	
opposition	-7423 Apr 02 j 16:40	16°♌14'44	0°58'50
min. Earth dist.	-7423 Apr 01 j 20:17	16°♌16'48	18.36639 AU
	-7423 May 05 j 21:53	15°℞♌	
direct	-7423 Jun 18 j 10:40	14°♌15'25	
	-7423 Jul 30 j 06:51	15°♌	
evening set	-7423 Sep 17 j 22:39	17°♌25'32	
conjunction	-7423 Oct 03 j 11:09	18°♌21'06	0°52'06
minimum elong	-7423 Oct 03 j 11:09	18°♌21'06	0°52'30
max. Earth dist.	-7423 Oct 04 j 08:57	18°♌24'22	20.40018 AU
morning rise	-7423 Oct 19 j 00:37	19°♌16'48	
retrograde	-7422 Jan 20 j 00:46	22°♌29'32	
min. Earth dist.	-7422 Apr 06 j 11:02	20°♌32'07	18.43390 AU
opposition	-7422 Apr 07 j 09:53	20°♌29'48	0°56'41
direct	-7422 Jun 23 j 02:55	18°♌30'51	
evening set	-7422 Sep 22 j 07:44	21°♌39'42	
conjunction	-7422 Oct 07 j 20:17	22°♌35'02	0°50'03
minimum elong	-7422 Oct 07 j 20:18	22°♌35'02	0°50'23
max. Earth dist.	-7422 Oct 08 j 19:41	22°♌38'32	20.46636 AU
morning rise	-7422 Oct 23 j 10:08	23°♌30'34	
retrograde	-7421 Jan 24 j 12:35	26°♌42'44	
min. Earth dist.	-7421 Apr 11 j 03:19	24°♌45'22	18.49886 AU
opposition	-7421 Apr 12 j 02:24	24°♌43'03	0°54'13
direct	-7421 Jun 27 j 16:19	22°♌44'25	
evening set	-7421 Sep 26 j 16:04	25°♌52'01	
conjunction	-7421 Oct 12 j 04:50	26°♌47'09	0°47'44
minimum elong	-7421 Oct 12 j 04:50	26°♌47'09	0°48'03
max. Earth dist.	-7421 Oct 13 j 05:16	26°♌50'47	20.53011 AU
morning rise	-7421 Oct 27 j 19:10	27°♌42'30	
	-7421 Dec 13 j 02:04	0°♍	
retrograde	-7420 Jan 29 j 01:42	0°♍54'07	
	-7420 Mar 18 j 00:25	30°℞♌	
opposition	-7420 Apr 15 j 17:57	28°♌54'26	0°51'30
min. Earth dist.	-7420 Apr 14 j 16:33	28°♌57'00	18.56131 AU
direct	-7420 Jul 01 j 06:39	26°♌56'05	
evening set	-7420 Sep 29 j 23:39	0°♍02'29	
	-7420 Sep 29 j 06:28	0°♍	
conjunction	-7420 Oct 15 j 12:42	0°♍57'26	0°45'11
minimum elong	-7420 Oct 15 j 12:43	0°♍57'26	0°45'28
max. Earth dist.	-7420 Oct 16 j 14:50	1°♍01'19	20.59125 AU
morning rise	-7420 Oct 31 j 03:36	1°♍52'39	
retrograde	-7419 Feb 01 j 12:00	5°♍03'42	
min. Earth dist.	-7419 Apr 19 j 07:13	3°♍06'36	18.62131 AU
opposition	-7419 Apr 20 j 08:45	3°♍04'02	0°48'32
direct	-7419 Jul 05 j 18:14	1°♍05'57	
evening set	-7419 Oct 04 j 06:40	4°♍11'12	
conjunction	-7419 Oct 19 j 20:03	5°♍05'58	0°42'25
minimum elong	-7419 Oct 19 j 20:03	5°♍05'58	0°42'40
max. Earth dist.	-7419 Oct 20 j 23:03	5°♍09'57	20.65015 AU
morning rise	-7419 Nov 04 j 11:35	6°♍01'02	
retrograde	-7418 Feb 06 j 00:03	9°♍11'34	
opposition	-7418 Apr 24 j 22:22	7°♍11'54	0°45'20
min. Earth dist.	-7418 Apr 23 j 18:45	7°♍14'40	18.67913 AU
direct	-7418 Jul 10 j 06:26	5°♍14'04	
evening set	-7418 Oct 08 j 13:06	8°♍18'14	
conjunction	-7418 Oct 24 j 02:53	9°♍12'51	0°39'27
minimum elong	-7418 Oct 24 j 02:54	9°♍12'51	0°39'41
max. Earth dist.	-7418 Oct 25 j 07:37	9°♍17'05	20.70683 AU
morning rise	-7418 Nov 08 j 19:02	10°♍07'48	
retrograde	-7417 Feb 10 j 09:04	13°♍17'51	
min. Earth dist.	-7417 Apr 28 j 07:44	11°♍20'59	18.73487 AU
opposition	-7417 Apr 29 j 11:31	11°♍18'12	0°41'56
direct	-7417 Jul 14 j 16:13	9°♍20'39	
evening set	-7417 Oct 12 j 18:54	12°♍23'48	
conjunction	-7417 Oct 28 j 09:09	13°♍18'16	0°36'18
minimum elong	-7417 Oct 28 j 09:10	13°♍18'16	0°36'29
max. Earth dist.	-7417 Oct 29 j 14:37	13°♍22'35	20.76162 AU
morning rise	-7417 Nov 13 j 02:05	14°♍13'06	
retrograde	-7416 Feb 14 j 20:31	17°♍22'43	
opposition	-7416 May 02 j 23:49	15°♍23'06	0°38'20
min. Earth dist.	-7416 May 01 j 18:07	15°♍26'04	18.78861 AU
direct	-7416 Jul 18 j 02:17	13°♍25'49	
evening set	-7416 Oct 16 j 00:24	16°♍28'02	
conjunction	-7416 Oct 31 j 15:14	17°♍22'23	0°33'00
minimum elong	-7416 Oct 31 j 15:15	17°♍22'23	0°33'10
max. Earth dist.	-7416 Nov 01 j 22:15	17°♍26'54	20.81413 AU
morning rise	-7416 Nov 16 j 08:54	18°♍17'08	
retrograde	-7415 Feb 18 j 05:01	21°♍26'20	
min. Earth dist.	-7415 May 06 j 05:47	19°♍29'44	18.83996 AU
opposition	-7415 May 07 j 11:21	19°♍26'47	0°34'34
direct	-7415 Jul 22 j 10:38	17°♍29'47	
evening set	-7415 Oct 20 j 05:32	20°♍31'08	

Attention, astronomical year style is used: The year -7415 in astronomical counting style is the year 7416 BCE in historical counting style.

conjunction	-7415 Nov 04 j 20:58	21°♍25'22	0°29'32
minimum elong	-7415 Nov 04 j 20:59	21°♍25'22	0°29'40
max. Earth dist.	-7415 Nov 06 j 04:12	21°♍29'55	20.86424 AU
morning rise	-7415 Nov 20 j 15:32	22°♍20'03	
retrograde	-7414 Feb 22 j 15:50	25°♍28'53	
opposition	-7414 May 11 j 22:13	23°♍29'24	0°30'39
min. Earth dist.	-7414 May 10 j 15:13	23°♍32'30	18.88861 AU
direct	-7414 Jul 26 j 18:37	21°♍32'41	
evening set	-7414 Oct 24 j 10:16	24°♍33'14	
conjunction	-7414 Nov 09 j 02:23	25°♍27'23	0°25'56
minimum elong	-7414 Nov 09 j 02:23	25°♍27'24	0°26'02
max. Earth dist.	-7414 Nov 10 j 10:52	25°♍32'06	20.91122 AU
morning rise	-7414 Nov 24 j 21:44	26°♍22'01	
retrograde	-7413 Feb 27 j 00:01	29°♍30'31	
min. Earth dist.	-7413 May 15 j 02:01	27°♍34'11	18.93392 AU
opposition	-7413 May 16 j 08:37	27°♍31'07	0°26'35
direct	-7413 Jul 31 j 02:14	25°♍34'40	
evening set	-7413 Oct 28 j 14:56	28°♍34'30	
conjunction	-7413 Nov 13 j 07:44	29°♍28'35	0°22'13
minimum elong	-7413 Nov 13 j 07:44	29°♍28'35	0°22'17
max. Earth dist.	-7413 Nov 14 j 16:00	29°♍33'15	20.95481 AU
	-7413 Nov 22 j 09:18	0°♎	
morning rise	-7413 Nov 29 j 04:03	0°♎23'10	
retrograde	-7412 Mar 02 j 10:43	3°♎31'22	
min. Earth dist.	-7412 May 18 j 10:51	1°♎35'12	18.97554 AU
opposition	-7412 May 19 j 18:19	1°♎32'03	0°22'24
	-7412 Jul 02 j 22:58	30°℞♍	
direct	-7412 Aug 03 j 08:58	29°♍35'50	
	-7412 Sep 03 j 02:51	0°♎	
evening set	-7412 Oct 31 j 19:28	2°♎35'00	
conjunction	-7412 Nov 16 j 13:04	3°♎29'03	0°18'25
minimum elong	-7412 Nov 16 j 13:04	3°♎29'03	0°18'26
max. Earth dist.	-7412 Nov 17 j 22:04	3°♎33'48	20.99419 AU
morning rise	-7412 Dec 02 j 10:16	4°♎23'36	
retrograde	-7411 Mar 06 j 18:24	7°♎31'32	
min. Earth dist.	-7411 May 22 j 20:58	5°♎35'21	19.01262 AU
opposition	-7411 May 24 j 03:34	5°♎32'17	0°18'08
direct	-7411 Aug 07 j 15:41	3°♎36'16	
evening set	-7411 Nov 04 j 24:00	6°♎34'52	
conjunction	-7411 Nov 20 j 18:21	7°♎28'52	0°14'31
minimum elong	-7411 Nov 20 j 18:21	7°♎28'52	0°14'31
behind sun begin	-7411 Nov 20 j 15:22	7°♎28'27	
behind sun end	-7411 Nov 20 j 21:20	7°♎29'17	
max. Earth dist.	-7411 Nov 22 j 02:30	7°♎33'29	21.02887 AU
morning rise	-7411 Dec 06 j 16:33	8°♎23'24	
retrograde	-7410 Mar 11 j 04:51	11°♎31'06	
min. Earth dist.	-7410 May 27 j 05:18	9°♎34'58	19.04473 AU
opposition	-7410 May 28 j 12:10	9°♎31'52	0°13'47
direct	-7410 Aug 11 j 22:10	7°♎36'01	
evening set	-7410 Nov 09 j 04:27	10°♎34'05	
conjunction	-7410 Nov 24 j 23:40	11°♎28'05	0°10'34
minimum elong	-7410 Nov 24 j 23:40	11°♎28'05	0°10'31
behind sun begin	-7410 Nov 24 j 18:31	11°♎27'21	
behind sun end	-7410 Nov 25 j 04:50	11°♎28'48	
max. Earth dist.	-7410 Nov 26 j 08:06	11°♎32'44	21.05820 AU
morning rise	-7410 Dec 10 j 22:47	12°♎22'37	
retrograde	-7409 Mar 15 j 11:59	15°♎30'05	
opposition	-7409 Jun 01 j 20:29	13°♎30'52	0°09'22
min. Earth dist.	-7409 May 31 j 14:45	13°♎33'51	19.07129 AU
direct	-7409 Aug 16 j 03:39	11°♎35'07	
evening set	-7409 Nov 13 j 08:46	14°♎32'43	

conjunction	-7409 Nov 29 j 04:53	15°♎26'42	0°06'35
minimum elong	-7409 Nov 29 j 04:53	15°♎26'42	0°06'31
behind sun begin	-7409 Nov 28 j 22:41	15°♎25'50	
behind sun end	-7409 Nov 29 j 11:04	15°♎27'34	
max. Earth dist.	-7409 Nov 30 j 12:07	15°♎31'10	21.08205 AU
morning rise	-7409 Dec 15 j 05:06	16°♎21'16	
retrograde	-7408 Mar 18 j 21:43	19°♎28'32	
min. Earth dist.	-7408 Jun 03 j 22:41	17°♎32'14	19.09225 AU
opposition	-7408 Jun 05 j 04:17	17°♎29'16	0°04'56
direct	-7408 Aug 19 j 10:16	15°♎33'34	
evening set	-7408 Nov 16 j 13:11	18°♎30'46	
conjunction	-7408 Dec 02 j 10:17	19°♎24'46	0°02'34
minimum elong	-7408 Dec 02 j 10:17	19°♎24'46	0°02'27
behind sun begin	-7408 Dec 02 j 03:41	19°♎23'51	
behind sun end	-7408 Dec 02 j 16:53	19°♎25'41	
max. Earth dist.	-7408 Dec 03 j 17:33	19°♎29'14	21.10010 AU
morning rise	-7408 Dec 18 j 11:29	20°♎19'21	
retrograde	-7407 Mar 23 j 04:25	23°♎26'25	
min. Earth dist.	-7407 Jun 08 j 07:15	21°♎29'56	19.10751 AU
opposition	-7407 Jun 09 j 11:29	21°♎27'06	0°00'29
desc. node	-7407 Jul 18 j 11:06	20°♎03'10	
direct	-7407 Aug 23 j 14:55	19°♎31'24	
evening set	-7407 Nov 20 j 17:34	22°♎28'15	
conjunction	-7407 Dec 06 j 15:35	23°♎22'17	-0°01'34
minimum elong	-7407 Dec 06 j 15:35	23°♎22'17	0°01'42
behind sun begin	-7407 Dec 06 j 08:58	23°♎21'22	
behind sun end	-7407 Dec 06 j 22:11	23°♎23'12	
max. Earth dist.	-7407 Dec 07 j 21:29	23°♎26'33	21.11282 AU
morning rise	-7407 Dec 22 j 17:53	24°♎16'55	
retrograde	-7406 Mar 27 j 12:58	27°♎23'49	
opposition	-7406 Jun 13 j 18:18	25°♎24'24	-0°03'57
min. Earth dist.	-7406 Jun 12 j 14:24	25°♎27'12	19.11765 AU
direct	-7406 Aug 27 j 20:55	23°♎28'40	
evening set	-7406 Nov 24 j 21:49	26°♎25'15	
conjunction	-7406 Dec 10 j 20:49	27°♎19'20	-0°05'35
minimum elong	-7406 Dec 10 j 20:50	27°♎19'20	0°05'46
behind sun begin	-7406 Dec 10 j 14:29	27°♎18'27	
behind sun end	-7406 Dec 11 j 03:10	27°♎20'13	
max. Earth dist.	-7406 Dec 12 j 02:50	27°♎23'36	21.12046 AU
morning rise	-7406 Dec 27 j 00:06	28°♎14'01	
	-7405 Jan 31 j 07:15	0°♏	
retrograde	-7405 Mar 31 j 19:37	1°♏20'48	
	-7405 Jun 01 j 16:27	30°℞♎	
min. Earth dist.	-7405 Jun 16 j 22:08	29°♎23'58	19.12297 AU
opposition	-7405 Jun 18 j 00:48	29°♎21'17	-0°08'21
direct	-7405 Sep 01 j 01:24	27°♎25'30	
	-7405 Nov 22 j 10:04	0°♏	
evening set	-7405 Nov 29 j 02:22	0°♏21'54	
conjunction	-7405 Dec 15 j 02:20	1°♏16'03	-0°09'31
minimum elong	-7405 Dec 15 j 02:19	1°♏16'02	0°09'44
behind sun begin	-7405 Dec 14 j 20:53	1°♏15'17	
behind sun end	-7405 Dec 15 j 07:45	1°♏16'48	
max. Earth dist.	-7405 Dec 16 j 06:53	1°♏20'06	21.12368 AU
morning rise	-7405 Dec 31 j 06:44	2°♏10'48	
retrograde	-7404 Apr 04 j 03:37	5°♏17'30	
min. Earth dist.	-7404 Jun 20 j 04:36	3°♏20'32	19.12411 AU
opposition	-7404 Jun 21 j 06:48	3°♏17'54	-0°12'43
direct	-7404 Sep 04 j 06:07	1°♏22'01	
evening set	-7404 Dec 02 j 07:03	4°♏18'21	
conjunction	-7404 Dec 18 j 08:06	5°♏12'35	-0°13'26
minimum elong	-7404 Dec 18 j 08:05	5°♏12'35	0°13'40
behind sun begin	-7404 Dec 18 j 04:31	5°♏12'05	

Attention, astronomical year style is used: The year -7404 in astronomical counting style is the year 7405 BCE in historical counting style.

behind sun end	-7404 Dec	18 j 11:40	5°♏13'04	
max. Earth dist.	-7404 Dec	19 j 12:31	5°♏16'37	21.12266 AU
morning rise	-7403 Jan	03 j 13:27	6°♏07'25	
retrograde	-7403 Apr	08 j 10:34	9°♏14'06	
min. Earth dist.	-7403 Jun	24 j 11:42	7°♏16'56	19.12104 AU
opposition	-7403 Jun	25 j 12:37	7°♏14'25	-0°17'01
direct	-7403 Sep	08 j 10:26	5°♏18'29	
evening set	-7403 Dec	06 j 12:00	8°♏14'49	
conjunction	-7403 Dec	22 j 13:59	9°♏09'08	-0°17'17
minimum elong	-7403 Dec	22 j 13:59	9°♏09'08	0°17'34
max. Earth dist.	-7403 Dec	23 j 16:41	9°♏12'55	21.11770 AU
morning rise	-7402 Jan	07 j 20:26	10°♏04'05	
retrograde	-7402 Apr	12 j 18:36	13°♏10'47	
opposition	-7402 Jun	29 j 18:12	11°♏11'03	-0°21'14
min. Earth dist.	-7402 Jun	28 j 17:55	11°♏13'30	19.11413 AU
direct	-7402 Sep	12 j 14:17	9°♏15'02	
evening set	-7402 Dec	10 j 17:13	12°♏11'28	
conjunction	-7402 Dec	26 j 20:18	13°♏05'55	-0°21'03
minimum elong	-7402 Dec	26 j 20:18	13°♏05'55	0°21'21
max. Earth dist.	-7402 Dec	27 j 22:41	13°♏09'39	21.10876 AU
morning rise	-7401 Jan	12 j 03:41	14°♏00'59	
	-7401 Jan	30 j 17:26	15°♏	
retrograde	-7401 Apr	17 j 01:57	17°♏07'45	
opposition	-7401 Jul	03 j 23:41	15°♏08'00	-0°25'22
min. Earth dist.	-7401 Jul	03 j 00:50	15°♏10'19	19.10318 AU
	-7401 Jul	07 j 06:38	15°℞♏	
direct	-7401 Sep	16 j 18:27	13°♏11'54	
	-7401 Nov	23 j 02:40	15°♏	
evening set	-7401 Dec	14 j 22:52	16°♏08'32	
conjunction	-7401 Dec	31 j 02:58	17°♏03'07	-0°24'44
minimum elong	-7401 Dec	31 j 02:58	17°♏03'07	0°25'04
max. Earth dist.	-7400 Jan	01 j 03:19	17°♏06'34	21.09594 AU
morning rise	-7400 Jan	16 j 11:30	17°♏58'19	
retrograde	-7400 Apr	20 j 10:54	21°♏05'14	
min. Earth dist.	-7400 Jul	06 j 07:20	19°♏07'39	19.08822 AU
opposition	-7400 Jul	07 j 05:09	19°♏05'26	-0°29'23
direct	-7400 Sep	19 j 22:22	17°♏09'15	
evening set	-7400 Dec	18 j 05:06	20°♏06'11	
conjunction	-7399 Jan	03 j 10:18	21°♏00'55	-0°28'19
minimum elong	-7399 Jan	03 j 10:18	21°♏00'55	0°28'40
max. Earth dist.	-7399 Jan	04 j 09:57	21°♏04'16	21.07874 AU
morning rise	-7399 Jan	19 j 19:42	21°♏56'16	
retrograde	-7399 Apr	24 j 18:31	25°♏03'20	
opposition	-7399 Jul	11 j 10:27	23°♏03'33	-0°33'17
min. Earth dist.	-7399 Jul	10 j 14:26	23°♏05'35	19.06875 AU
direct	-7399 Sep	24 j 02:25	21°♏07'16	
evening set	-7399 Dec	22 j 11:52	24°♏04'34	
conjunction	-7398 Jan	07 j 18:02	24°♏59'28	-0°31'46
minimum elong	-7398 Jan	07 j 18:02	24°♏59'28	0°32'09
max. Earth dist.	-7398 Jan	08 j 15:13	25°♏02'29	21.05710 AU