Attention, astronomical year style is used: The year -8900 in astronomical counting style is the year 8901 BCE in historical counting style.

evening set	-8900 Jan 24 j 12:31	15°♐20'14	
conjunction	-8900 Feb 11 j 15:13	17°♐45'08	-2°06'00
minimum elong	-8900 Feb 11 j 15:09	17°♐45'06	2°06'33
max. Earth dist.	-8900 Feb 12 j 15:45	17°♐53'21	9.79939 AU
morning rise	-8900 Feb 29 j 19:53	20°♐10'37	
retrograde	-8900 Jun 15 j 19:59	28°♐50'44	
opposition	-8900 Aug 21 j 09:32	25°♐19'03	-2°48'59
min. Earth dist.	-8900 Aug 20 j 13:57	25°♐23'10	7.82778 AU
direct	-8900 Oct 26 j 05:45	21°♐49'24	
	-8899 Feb 06 j 01:51	0°♑	
evening set	-8899 Feb 08 j 12:05	0°♑18'55	
conjunction	-8899 Feb 26 j 15:08	2°♑42'39	-2°20'34
minimum elong	-8899 Feb 26 j 15:06	2°♑42'39	2°21'08
max. Earth dist.	-8899 Feb 27 j 18:27	2°♑51'44	9.86252 AU
morning rise	-8899 Mar 16 j 18:45	5°♑06'28	
retrograde	-8899 Jun 30 j 16:28	13°♑36'43	
min. Earth dist.	-8899 Sep 04 j 04:57	10°♑10'34	7.91084 AU
opposition	-8899 Sep 05 j 01:36	10°♑06'14	-3°00'57
direct	-8899 Nov 10 j 09:24	6°♑36'15	
evening set	-8898 Feb 24 j 05:59	15°♑01'27	
conjunction	-8898 Mar 14 j 08:27	17°♑23'07	-2°25'44
minimum elong	-8898 Mar 14 j 08:27	17°♑23'07	2°26'18
max. Earth dist.	-8898 Mar 15 j 12:28	17°♑32'18	9.96407 AU
morning rise	-8898 Apr 01 j 10:05	19°♑44'22	
retrograde	-8898 Jul 15 j 01:19	28°♑01'31	
opposition	-8898 Sep 19 j 09:39	24°♑32'37	-3°01'03
min. Earth dist.	-8898 Sep 18 j 13:26	24°♑36'49	8.02870 AU
direct	-8898 Nov 25 j 09:04	21°♑02'39	
evening set	-8897 Mar 11 j 13:55	29°♑20'20	
	-8897 Mar 16 j 18:38	0°♒	
conjunction	-8897 Mar 29 j 14:58	1°♒39'14	-2°21'45
minimum elong	-8897 Mar 29 j 15:01	1°♒39'15	2°22'16
max. Earth dist.	-8897 Mar 30 j 17:37	1°♒47'50	10.09686 AU
morning rise	-8897 Apr 16 j 13:59	3°♒57'21	
retrograde	-8897 Jul 28 j 20:34	11°♒59'27	
opposition	-8897 Oct 03 j 08:03	8°♒32'24	-2°50'14
min. Earth dist.	-8897 Oct 02 j 13:04	8°♒36'18	8.17326 AU
direct	-8897 Dec 10 j 01:53	5°♒02'51	
evening set	-8896 Mar 25 j 08:59	13°♒10'37	
	-8896 Apr 08 j 20:55	15°♒	
conjunction	-8896 Apr 12 j 08:05	15°♒26'22	-2°09'38
minimum elong	-8896 Apr 12 j 08:08	15°♒26'23	2°10'05
max. Earth dist.	-8896 Apr 13 j 07:52	15°♒33'54	10.25200 AU
morning rise	-8896 Apr 30 j 04:04	17°♒41'00	
retrograde	-8896 Aug 10 j 01:37	25°♒27'27	
opposition	-8896 Oct 15 j 20:04	22°♒02'23	-2°30'17
min. Earth dist.	-8896 Oct 15 j 02:52	22°♒05'52	8.33527 AU
direct	-8896 Dec 23 j 09:48	18°♒33'33	
evening set	-8895 Apr 08 j 13:44	26°♒30'02	
conjunction	-8895 Apr 26 j 10:25	28°♒42'26	-1°50'53
minimum elong	-8895 Apr 26 j 10:29	28°♒42'27	1°51'14
max. Earth dist.	-8895 Apr 27 j 06:36	28°♒48'42	10.41982 AU
	-8895 May 06 j 20:30	0°♓	
morning rise	-8895 May 14 j 03:01	0°♓53'28	
retrograde	-8895 Aug 22 j 19:50	8°♓24'46	
opposition	-8895 Oct 28 j 21:51	5°♓01'41	-2°03'19
min. Earth dist.	-8895 Oct 28 j 07:05	5°♓04'37	8.50517 AU
direct	-8894 Jan 06 j 05:49	1°♓33'51	
evening set	-8894 Apr 22 j 04:05	9°♓18'34	
conjunction	-8894 May 09 j 21:49	11°♓27'37	-1°27'12
minimum elong	-8894 May 09 j 21:52	11°♓27'38	1°27'26
max. Earth dist.	-8894 May 10 j 14:01	11°♓32'34	10.59086 AU
morning rise	-8894 May 27 j 10:38	13°♓35'07	
retrograde	-8894 Sep 04 j 03:27	20°♓52'31	
opposition	-8894 Nov 10 j 14:06	17°♓31'22	-1°31'30
min. Earth dist.	-8894 Nov 10 j 02:47	17°♓33'35	8.67415 AU
direct	-8893 Jan 19 j 14:50	14°♓04'43	
evening set	-8893 May 05 j 04:37	21°♓38'02	
conjunction	-8893 May 22 j 18:53	23°♓43'48	-1°00'13
minimum elong	-8893 May 22 j 18:56	23°♓43'49	1°00'21
max. Earth dist.	-8893 May 23 j 06:35	23°♓47'19	10.75675 AU
morning rise	-8893 Jun 09 j 03:46	25°♓47'59	
	-8893 Jul 18 j 17:19	0°♈	
retrograde	-8893 Sep 16 j 00:39	2°♈53'18	
	-8893 Nov 17 j 06:18	30°℞♓	
opposition	-8893 Nov 22 j 21:52	29°♓33'56	-0°56'48
min. Earth dist.	-8893 Nov 22 j 15:02	29°♓35'15	8.83456 AU
direct	-8892 Feb 01 j 13:54	26°♓08'34	
	-8892 Apr 13 j 22:22	0°♈	
evening set	-8892 May 16 j 16:28	3°♈31'21	
conjunction	-8892 Jun 03 j 02:49	5°♈34'04	-0°31'27
minimum elong	-8892 Jun 03 j 02:51	5°♈34'05	0°31'27
max. Earth dist.	-8892 Jun 03 j 08:42	5°♈35'48	10.91033 AU
morning rise	-8892 Jun 20 j 07:47	7°♈35'14	
retrograde	-8892 Sep 26 j 14:09	14°♈30'34	
opposition	-8892 Dec 03 j 22:16	11°♈12'46	-0°20'57
min. Earth dist.	-8892 Dec 03 j 19:53	11°♈13'14	8.97976 AU
direct	-8891 Feb 13 j 03:18	7°♈48'44	
evening set	-8891 May 28 j 17:30	15°♈02'17	
conjunction	-8891 Jun 14 j 23:40	17°♈02'15	-0°02'12
minimum elong	-8891 Jun 14 j 23:41	17°♈02'15	0°02'06
behind sun begin	-8891 Jun 14 j 16:36	17°♈00'13	
behind sun end	-8891 Jun 15 j 06:46	17°♈04'18	
max. Earth dist.	-8891 Jun 14 j 23:38	17°♈02'15	11.04565 AU
morning rise	-8891 Jul 02 j 00:42	19°♈00'44	
asc. node	-8891 Jul 12 j 23:54	20°♈14'27	
retrograde	-8891 Oct 07 j 20:43	25°♈48'21	
opposition	-8891 Dec 15 j 16:41	22°♈31'51	0°14'40
min. Earth dist.	-8891 Dec 15 j 17:54	22°♈31'37	9.10435 AU
direct	-8890 Feb 25 j 08:58	19°♈09'09	
evening set	-8890 Jun 09 j 09:16	26°♈14'56	
conjunction	-8890 Jun 26 j 11:17	28°♈12'31	0°26'35
minimum elong	-8890 Jun 26 j 11:16	28°♈12'30	0°26'47
max. Earth dist.	-8890 Jun 26 j 06:49	28°♈11'13	11.15799 AU
	-8890 Jul 12 j 01:34	0°♉	
morning rise	-8890 Jul 13 j 08:18	0°♉08'42	
retrograde	-8890 Oct 19 j 01:57	6°♉50'54	
opposition	-8890 Dec 27 j 06:58	3°♉35'25	0°48'51
min. Earth dist.	-8890 Dec 27 j 11:46	3°♉34'31	9.20413 AU
direct	-8889 Mar 09 j 07:04	0°♉13'59	
evening set	-8889 Jun 20 j 17:30	7°♉13'35	
conjunction	-8889 Jul 07 j 15:25	9°♉09'10	0°53'47
minimum elong	-8889 Jul 07 j 15:23	9°♉09'10	0°54'04
max. Earth dist.	-8889 Jul 07 j 07:01	9°♉06'46	11.24365 AU
morning rise	-8889 Jul 24 j 08:36	11°♉03'31	
	-8889 Sep 01 j 05:42	15°♉	
retrograde	-8889 Oct 30 j 03:13	17°♉42'31	
	-8889 Dec 31 j 09:42	15°℞♉	
opposition	-8888 Jan 07 j 18:28	14°♉27'44	1°20'41

Attention, astronomical year style is used: The year -8888 in astronomical counting style is the year 8889 BCE in historical counting style.

min. Earth dist.	-8888 Jan 08 j 03:37	14°♉26'03	9.27597 AU
direct	-8888 Mar 19 j 20:56	11°♉07'25	
	-8888 Jun 01 j 19:02	15°♉	
evening set	-8888 Jun 30 j 20:22	18°♉02'32	
conjunction	-8888 Jul 17 j 14:11	19°♉56'33	1°18'43
minimum elong	-8888 Jul 17 j 14:09	19°♉56'33	1°19'05
max. Earth dist.	-8888 Jul 17 j 00:54	19°♉52'45	11.30005 AU
morning rise	-8888 Aug 03 j 04:03	21°♉49'33	
retrograde	-8888 Nov 09 j 04:07	28°♉27'29	
opposition	-8887 Jan 18 j 04:32	25°♉13'05	1°49'18
min. Earth dist.	-8887 Jan 18 j 17:52	25°♉10'39	9.31764 AU
direct	-8887 Mar 31 j 09:21	21°♉53'41	
evening set	-8887 Jul 11 j 19:24	28°♉45'59	
	-8887 Jul 22 j 17:20	0°♊	
conjunction	-8887 Jul 28 j 09:33	0°♊38'55	1°40'42
minimum elong	-8887 Jul 28 j 09:30	0°♊38'54	1°41'09
max. Earth dist.	-8887 Jul 27 j 16:09	0°♊33'57	11.32557 AU
morning rise	-8887 Aug 13 j 20:35	2°♊31'02	
retrograde	-8887 Nov 20 j 06:20	9°♊10'03	
opposition	-8886 Jan 29 j 14:58	5°♊55'37	2°14'00
min. Earth dist.	-8886 Jan 30 j 06:51	5°♊52'45	9.32783 AU
direct	-8886 Apr 11 j 18:14	2°♊36'58	
evening set	-8886 Jul 22 j 16:09	9°♊28'00	
max. Earth dist.	-8886 Aug 07 j 07:49	11°♊14'47	11.31934 AU
conjunction	-8886 Aug 08 j 03:21	11°♊20'23	1°59'07
minimum elong	-8886 Aug 08 j 03:19	11°♊20'22	1°59'38
morning rise	-8886 Aug 24 j 12:02	13°♊12'09	
retrograde	-8886 Dec 01 j 13:22	19°♊54'17	
opposition	-8885 Feb 10 j 03:05	16°♊39'28	2°34'06
min. Earth dist.	-8885 Feb 10 j 21:01	16°♊36'13	9.30608 AU
direct	-8885 Apr 23 j 02:30	13°♊21'18	
evening set	-8885 Aug 02 j 12:43	20°♊12'41	
conjunction	-8885 Aug 18 j 21:37	22°♊05'02	2°13'26
minimum elong	-8885 Aug 18 j 21:35	22°♊05'02	2°14'00
max. Earth dist.	-8885 Aug 17 j 23:47	21°♊58'45	11.28143 AU
morning rise	-8885 Sep 04 j 04:48	23°♊57'02	
	-8885 Nov 12 j 14:56	0°♋	
retrograde	-8885 Dec 12 j 23:30	0°♋44'08	
	-8884 Jan 12 j 21:13	30°℞♊	
opposition	-8884 Feb 21 j 18:08	27°♊28'36	2°48'59
min. Earth dist.	-8884 Feb 22 j 14:34	27°♊24'54	9.25288 AU
direct	-8884 May 03 j 08:58	24°♊10'39	
	-8884 Aug 02 j 21:43	0°♋	
evening set	-8884 Aug 12 j 10:40	1°♋03'58	
conjunction	-8884 Aug 28 j 18:01	2°♋56'51	2°23'07
minimum elong	-8884 Aug 28 j 18:00	2°♋56'51	2°23'40
max. Earth dist.	-8884 Aug 27 j 17:21	2°♋49'41	11.21280 AU
morning rise	-8884 Sep 14 j 00:50	4°♋49'41	
retrograde	-8884 Dec 23 j 14:49	11°♋43'39	
opposition	-8883 Mar 04 j 13:40	8°♋27'03	2°58'01
min. Earth dist.	-8883 Mar 05 j 12:03	8°♋22'58	9.16941 AU
direct	-8883 May 14 j 18:37	5°♋09'01	
evening set	-8883 Aug 23 j 11:32	12°♋05'49	
conjunction	-8883 Sep 08 j 18:30	13°♋59'52	2°27'39
minimum elong	-8883 Sep 08 j 18:29	13°♋59'52	2°28'12
max. Earth dist.	-8883 Sep 07 j 16:57	13°♋52'21	11.11496 AU
morning rise	-8883 Sep 25 j 01:55	15°♋54'07	
retrograde	-8882 Jan 04 j 15:37	22°♋56'50	
opposition	-8882 Mar 16 j 14:54	19°♋38'49	3°00'36
min. Earth dist.	-8882 Mar 17 j 13:34	19°♋34'40	9.05757 AU
direct	-8882 May 26 j 08:50	16°♋20'29	
evening set	-8882 Sep 03 j 17:22	23°♋22'18	
max. Earth dist.	-8882 Sep 19 j 00:11	25°♋10'41	10.99034 AU
conjunction	-8882 Sep 20 j 01:15	25°♋18'09	2°26'36
minimum elong	-8882 Sep 20 j 01:16	25°♋18'09	2°27'08
morning rise	-8882 Oct 06 j 10:21	27°♋14'31	
	-8882 Oct 31 j 07:23	0°♌	
retrograde	-8881 Jan 17 j 01:09	4°♌27'41	
opposition	-8881 Mar 28 j 23:01	1°♌08'01	2°56'10
min. Earth dist.	-8881 Mar 29 j 20:45	1°♌03'59	8.92059 AU
	-8881 Apr 13 j 13:04	30°℞♋	
direct	-8881 Jun 07 j 02:05	27°♋49'10	
	-8881 Jul 29 j 00:21	0°♌	
evening set	-8881 Sep 15 j 06:07	4°♌57'32	
conjunction	-8881 Oct 01 j 16:01	6°♌55'51	2°19'34
minimum elong	-8881 Oct 01 j 16:04	6°♌55'52	2°20'04
max. Earth dist.	-8881 Sep 30 j 15:18	6°♌48'23	10.84314 AU
morning rise	-8881 Oct 18 j 04:09	8°♌54'59	
	-8881 Dec 20 j 02:22	15°♌	
retrograde	-8880 Jan 29 j 22:06	16°♌20'10	
	-8880 Mar 11 j 16:26	15°℞♌	
opposition	-8880 Apr 09 j 15:23	12°♌58'37	2°44'14
min. Earth dist.	-8880 Apr 10 j 11:53	12°♌54'46	8.76370 AU
direct	-8880 Jun 18 j 02:17	9°♌39'01	
	-8880 Sep 09 j 16:30	15°♌	
evening set	-8880 Sep 26 j 03:42	16°♌55'20	
conjunction	-8880 Oct 12 j 16:43	18°♌56'42	2°06'20
minimum elong	-8880 Oct 12 j 16:46	18°♌56'43	2°06'45
max. Earth dist.	-8880 Oct 11 j 17:15	18°♌49'29	10.67948 AU
morning rise	-8880 Oct 29 j 09:09	20°♌59'12	
retrograde	-8879 Feb 11 j 05:46	28°♌37'35	
opposition	-8879 Apr 22 j 16:51	25°♌14'00	2°24'31
min. Earth dist.	-8879 Apr 23 j 11:22	25°♌10'28	8.59381 AU
direct	-8879 Jun 30 j 09:34	21°♌53'25	
evening set	-8879 Oct 08 j 11:57	29°♌18'56	
	-8879 Oct 14 j 01:05	0°♍	
max. Earth dist.	-8879 Oct 24 j 09:04	1°♍17'30	10.50669 AU
conjunction	-8879 Oct 25 j 05:18	1°♍23'51	1°46'49
minimum elong	-8879 Oct 25 j 05:22	1°♍23'52	1°47'10
morning rise	-8879 Nov 11 j 03:02	3°♍30'12	
retrograde	-8878 Feb 24 j 23:48	11°♍22'33	
opposition	-8878 May 06 j 03:53	7°♍56'50	1°57'02
min. Earth dist.	-8878 May 06 j 19:08	7°♍53'53	8.41887 AU
direct	-8878 Jul 13 j 04:05	4°♍35'05	
evening set	-8878 Oct 21 j 08:34	12°♍10'46	
conjunction	-8878 Nov 07 j 07:17	14°♍19'39	1°21'22
minimum elong	-8878 Nov 07 j 07:20	14°♍19'40	1°21'35
max. Earth dist.	-8878 Nov 06 j 16:14	14°♍14'51	10.33292 AU
morning rise	-8878 Nov 24 j 10:56	16°♍30'11	
retrograde	-8877 Mar 11 j 06:46	24°♍36'39	
opposition	-8877 May 20 j 00:31	21°♍08'50	1°22'20
min. Earth dist.	-8877 May 20 j 11:00	21°♍06'46	8.24755 AU
direct	-8877 Jul 26 j 08:27	17°♍45'48	
evening set	-8877 Nov 03 j 19:11	25°♍32'20	
conjunction	-8877 Nov 20 j 23:43	27°♍45'19	0°50'42
minimum elong	-8877 Nov 20 j 23:45	27°♍45'20	0°50'47
max. Earth dist.	-8877 Nov 20 j 14:28	27°♍42'19	10.16708 AU
morning rise	-8877 Dec 08 j 09:35	0°♎00'08	
	-8877 Dec 08 j 09:10	0°♎	
retrograde	-8876 Mar 25 j 01:32	8°♎20'04	
opposition	-8876 Jun 02 j 06:19	4°♎50'19	0°41'36
min. Earth dist.	-8876 Jun 02 j 11:11	4°♎49'21	8.08919 AU

Attention, astronomical year style is used: The year -8876 in astronomical counting style is the year 8877 BCE in historical counting style.

direct	-8876 Aug 07 j 21:58	1°♎25'57	
evening set	-8876 Nov 16 j 20:33	9°♎23'35	
conjunction	-8876 Dec 04 j 06:55	11°♎40'32	0°16'09
minimum elong	-8876 Dec 04 j 06:55	11°♎40'33	0°16'06
max. Earth dist.	-8876 Dec 04 j 03:56	11°♎39'34	10.01879 AU
morning rise	-8876 Dec 21 j 22:53	13°♎59'24	
retrograde	-8875 Apr 09 j 06:11	22°♎31'13	
desc. node	-8875 May 22 j 00:53	20°♎58'40	
opposition	-8875 Jun 16 j 20:30	18°♎59'51	-0°03'09
min. Earth dist.	-8875 Jun 16 j 19:42	19°♎00'01	7.95347 AU
direct	-8875 Aug 21 j 22:01	15°♎34'06	
evening set	-8875 Dec 01 j 12:34	23°♎42'28	
conjunction	-8875 Dec 19 j 04:24	26°♎02'55	-0°20'25
minimum elong	-8875 Dec 19 j 04:23	26°♎02'55	0°20'36
max. Earth dist.	-8875 Dec 19 j 07:58	26°♎04'07	9.89740 AU
morning rise	-8874 Jan 06 j 01:49	28°♎25'15	
	-8874 Jan 18 j 09:27	0°♏	
retrograde	-8874 Apr 24 j 16:40	7°♏06'18	
opposition	-8874 Jul 01 j 17:13	3°♏33'45	-0°49'04
min. Earth dist.	-8874 Jul 01 j 11:08	3°♏35'00	7.84925 AU
direct	-8874 Sep 05 j 09:28	0°♏06'39	
evening set	-8874 Dec 16 j 18:13	8°♏24'34	
conjunction	-8873 Jan 03 j 14:39	10°♏47'45	-0°56'25
minimum elong	-8873 Jan 03 j 14:35	10°♏47'44	0°56'44
max. Earth dist.	-8873 Jan 04 j 00:42	10°♏51'08	9.81115 AU
morning rise	-8873 Jan 21 j 16:13	13°♏12'35	
	-8873 Feb 04 j 13:32	15°♏	
retrograde	-8873 May 10 j 06:02	21°♏59'10	
opposition	-8873 Jul 16 j 17:55	18°♏25'57	-1°32'42
min. Earth dist.	-8873 Jul 16 j 07:14	18°♏28'12	7.78386 AU
	-8873 Sep 13 j 22:04	15°℞♏	
direct	-8873 Sep 20 j 05:26	14°♏57'39	
	-8873 Sep 26 j 12:24	15°♏	
evening set	-8872 Jan 01 j 10:31	23°♏23'03	
conjunction	-8872 Jan 19 j 10:24	25°♏47'53	-1°29'09
minimum elong	-8872 Jan 19 j 10:20	25°♏47'51	1°29'35
max. Earth dist.	-8872 Jan 20 j 02:47	25°♏53'24	9.76644 AU
morning rise	-8872 Feb 06 j 14:32	28°♏14'02	
	-8872 Feb 20 j 06:07	0°♐	
retrograde	-8872 May 24 j 18:53	7°♐01'43	
opposition	-8872 Jul 30 j 20:01	3°♐28'26	-2°10'29
min. Earth dist.	-8872 Jul 30 j 05:13	3°♐31'33	7.76221 AU
	-8872 Sep 30 j 10:35	30°℞♏	
direct	-8872 Oct 04 j 07:43	29°♏59'07	
	-8872 Oct 08 j 04:37	0°♐	
evening set	-8871 Jan 16 j 09:20	8°♐29'00	
conjunction	-8871 Feb 03 j 11:25	10°♐54'18	-1°55'59
minimum elong	-8871 Feb 03 j 11:21	10°♐54'17	1°56'30
max. Earth dist.	-8871 Feb 04 j 09:22	11°♐01'42	9.76680 AU
morning rise	-8871 Feb 21 j 16:29	13°♐20'28	
retrograde	-8871 Jun 09 j 03:10	22°♐04'31	
opposition	-8871 Aug 14 j 20:15	18°♐31'45	-2°39'14
min. Earth dist.	-8871 Aug 14 j 02:03	18°♐35'35	7.78587 AU
direct	-8871 Oct 19 j 13:04	15°♐01'42	
evening set	-8870 Feb 01 j 10:03	23°♐32'33	
conjunction	-8870 Feb 19 j 13:07	25°♐57'09	-2°14'50
minimum elong	-8870 Feb 19 j 13:04	25°♐57'08	2°15'23
max. Earth dist.	-8870 Feb 20 j 15:04	26°♐05'50	9.81224 AU
morning rise	-8870 Mar 09 j 17:39	28°♐22'07	
	-8870 Mar 22 j 10:31	0°♑	
retrograde	-8870 Jun 24 j 03:48	6°♑58'00	
opposition	-8870 Aug 29 j 15:34	3°♑26'18	-2°56'51
min. Earth dist.	-8870 Aug 28 j 19:01	3°♑30'38	7.85295 AU
	-8870 Oct 26 j 07:52	30°℞♐	
direct	-8870 Nov 03 j 18:32	29°♐55'53	
	-8870 Nov 12 j 05:21	0°♑	
evening set	-8869 Feb 17 j 07:21	8°♑23'59	
conjunction	-8869 Mar 07 j 10:18	10°♑46'53	-2°24'27
minimum elong	-8869 Mar 07 j 10:17	10°♑46'52	2°25'01
max. Earth dist.	-8869 Mar 08 j 14:32	10°♑56'13	9.89937 AU
morning rise	-8869 Mar 25 j 13:08	13°♑09'36	
retrograde	-8869 Jul 08 j 18:15	21°♑33'41	
min. Earth dist.	-8869 Sep 12 j 06:00	18°♑08'04	7.95846 AU
opposition	-8869 Sep 13 j 03:47	18°♑03'31	-3°02'28
direct	-8869 Nov 18 j 20:40	14°♑33'09	
evening set	-8868 Mar 03 j 20:20	22°♑55'01	
conjunction	-8868 Mar 21 j 22:19	25°♑15'25	-2°24'41
minimum elong	-8868 Mar 21 j 22:20	25°♑15'25	2°25'14
max. Earth dist.	-8868 Mar 23 j 03:13	25°♑24'50	10.02185 AU
morning rise	-8868 Apr 08 j 22:42	27°♑35'12	
	-8868 Apr 28 j 13:05	0°♒	
retrograde	-8868 Jul 21 j 20:16	5°♒44'58	
min. Earth dist.	-8868 Sep 25 j 09:30	2°♒21'10	8.09500 AU
opposition	-8868 Sep 26 j 06:59	2°♒16'43	-2°56'34
	-8868 Oct 26 j 09:46	30°℞♑	
direct	-8868 Dec 02 j 16:21	28°♑46'47	
	-8867 Jan 08 j 19:41	0°♒	
evening set	-8867 Mar 18 j 21:59	6°♒59'43	
conjunction	-8867 Apr 05 j 22:20	9°♒17'05	-2°16'12
minimum elong	-8867 Apr 05 j 22:23	9°♒17'06	2°16'41
max. Earth dist.	-8867 Apr 07 j 01:54	9°♒25'54	10.17125 AU
morning rise	-8867 Apr 23 j 19:46	11°♒33'29	
	-8867 May 23 j 00:14	15°♒	
retrograde	-8867 Aug 04 j 09:25	19°♒27'42	
min. Earth dist.	-8867 Oct 09 j 04:41	16°♒05'34	8.25363 AU
opposition	-8867 Oct 10 j 00:06	16°♒01'37	-2°40'36
	-8867 Oct 22 j 19:09	15°℞♒	
direct	-8867 Dec 17 j 03:13	12°♒32'27	
	-8866 Feb 09 j 13:23	15°♒	
evening set	-8866 Apr 02 j 10:09	20°♒34'38	
conjunction	-8866 Apr 20 j 08:11	22°♒48'43	-2°00'19
minimum elong	-8866 Apr 20 j 08:14	22°♒48'44	2°00'43
max. Earth dist.	-8866 Apr 21 j 08:19	22°♒56'17	10.33805 AU
morning rise	-8866 May 08 j 02:20	25°♒01'30	
	-8866 Jun 22 j 16:07	0°♓	
retrograde	-8866 Aug 17 j 10:36	2°♓40'09	
	-8866 Oct 14 j 03:35	30°℞♒	
opposition	-8866 Oct 23 j 07:09	29°♒16'18	-2°16'34
min. Earth dist.	-8866 Oct 22 j 14:46	29°♒19'35	8.42485 AU
direct	-8866 Dec 31 j 04:03	25°♒48'13	
	-8865 Mar 14 j 23:44	0°♓	
evening set	-8865 Apr 16 j 07:45	3°♓38'44	
conjunction	-8865 May 04 j 02:52	5°♓49'24	-1°38'41
minimum elong	-8865 May 04 j 02:56	5°♓49'25	1°38'59
max. Earth dist.	-8865 May 04 j 22:12	5°♓55'21	10.51260 AU
morning rise	-8865 May 21 j 17:32	7°♓58'36	
retrograde	-8865 Aug 29 j 22:15	15°♓22'35	
opposition	-8865 Nov 05 j 04:17	12°♓00'54	-1°46'41
min. Earth dist.	-8865 Nov 04 j 15:14	12°♓03'28	8.59932 AU
direct	-8864 Jan 13 j 19:59	8°♓34'05	
evening set	-8864 Apr 28 j 15:10	16°♓12'55	
conjunction	-8864 May 16 j 07:00	18°♓20'12	-1°12'59

Attention, astronomical year style is used: The year -8864 in astronomical counting style is the year 8865 BCE in historical counting style.

minimum elong	-8864 May 16 j 07:04	18°♓20'13	1°13'11
max. Earth dist.	-8864 May 16 j 20:51	18°♓24'23	10.68579 AU
morning rise	-8864 Jun 02 j 17:57	20°♓25'56	
retrograde	-8864 Sep 09 j 23:28	27°♓36'51	
opposition	-8864 Nov 16 j 16:04	24°♓17'08	-1°13'02
min. Earth dist.	-8864 Nov 16 j 06:19	24°♓19'02	8.76830 AU
direct	-8863 Jan 26 j 01:23	20°♓51'41	
evening set	-8863 May 11 j 09:21	28°♓19'25	
	-8863 May 25 j 14:34	0°♈	
conjunction	-8863 May 28 j 21:36	0°♈23'31	-0°44'50
minimum elong	-8863 May 28 j 21:38	0°♈23'31	0°44'54
max. Earth dist.	-8863 May 29 j 06:25	0°♈26'08	10.84919 AU
morning rise	-8863 Jun 15 j 04:30	2°♈26'01	
retrograde	-8863 Sep 21 j 18:35	9°♈25'51	
opposition	-8863 Nov 28 j 20:03	6°♈07'51	-0°37'30
min. Earth dist.	-8863 Nov 28 j 14:26	6°♈08'56	8.92383 AU
direct	-8862 Feb 07 j 19:00	2°♈43'48	
evening set	-8862 May 23 j 15:41	10°♈01'31	
conjunction	-8862 Jun 09 j 23:57	12°♈02'42	-0°15'38
minimum elong	-8862 Jun 09 j 23:58	12°♈02'43	0°15'34
behind sun begin	-8862 Jun 09 j 22:15	12°♈02'13	
behind sun end	-8862 Jun 10 j 01:40	12°♈03'12	
max. Earth dist.	-8862 Jun 10 j 03:40	12°♈03'47	10.99530 AU
morning rise	-8862 Jun 27 j 02:41	14°♈02'20	
retrograde	-8862 Oct 03 j 04:30	20°♈53'19	
opposition	-8862 Dec 10 j 17:33	17°♈36'47	-0°01'36
min. Earth dist.	-8862 Dec 10 j 17:01	17°♈36'53	9.05921 AU
asc. node	-8862 Dec 27 j 10:20	16°♈23'14	
direct	-8861 Feb 20 j 03:22	14°♈14'02	
evening set	-8861 Jun 04 j 12:00	21°♈23'16	
conjunction	-8861 Jun 21 j 16:00	23°♈21'53	0°13'32
minimum elong	-8861 Jun 21 j 15:59	23°♈21'53	0°13'42
behind sun begin	-8861 Jun 21 j 12:10	23°♈20'47	
behind sun end	-8861 Jun 21 j 19:48	23°♈22'59	
max. Earth dist.	-8861 Jun 21 j 13:39	23°♈21'13	11.11832 AU
morning rise	-8861 Jul 08 j 14:46	25°♈19'03	
	-8861 Aug 24 j 22:55	0°♉	
retrograde	-8861 Oct 14 j 10:10	2°♉03'33	
	-8861 Dec 05 j 21:25	30°℞♈	
opposition	-8861 Dec 22 j 09:56	28°♈48'09	0°33'24
min. Earth dist.	-8861 Dec 22 j 14:26	28°♈47'18	9.16962 AU
direct	-8860 Mar 03 j 05:12	25°♈26'36	
	-8860 May 22 j 20:37	0°♉	
evening set	-8860 Jun 14 j 23:59	2°♉28'59	
conjunction	-8860 Jul 01 j 23:42	4°♉25'26	0°41'32
minimum elong	-8860 Jul 01 j 23:40	4°♉25'25	0°41'48
max. Earth dist.	-8860 Jul 01 j 15:22	4°♉23'02	11.21451 AU
morning rise	-8860 Jul 18 j 18:45	6°♉20'35	
retrograde	-8860 Oct 24 j 11:59	13°♉00'53	
opposition	-8859 Jan 01 j 22:44	9°♉46'12	1°06'25
min. Earth dist.	-8859 Jan 02 j 06:59	9°♉44'41	9.25188 AU
direct	-8859 Mar 14 j 23:53	6°♉25'42	
evening set	-8859 Jun 26 j 05:30	13°♉22'52	
	-8859 Jul 10 j 11:49	15°♉	
conjunction	-8859 Jul 13 j 01:11	15°♉17'34	1°07'36
minimum elong	-8859 Jul 13 j 01:08	15°♉17'34	1°07'57
max. Earth dist.	-8859 Jul 12 j 12:52	15°♉14'03	11.28139 AU
morning rise	-8859 Jul 29 j 16:35	17°♉11'08	
retrograde	-8859 Nov 04 j 14:27	23°♉49'27	
opposition	-8858 Jan 13 j 09:33	20°♉35'07	1°36'37
min. Earth dist.	-8858 Jan 13 j 21:06	20°♉33'01	9.30398 AU
direct	-8858 Mar 26 j 14:55	17°♉15'28	
evening set	-8858 Jul 07 j 06:18	24°♉09'01	
conjunction	-8858 Jul 23 j 22:15	26°♉02'26	1°31'01
minimum elong	-8858 Jul 23 j 22:13	26°♉02'25	1°31'27
max. Earth dist.	-8858 Jul 23 j 06:35	25°♉57'58	11.31741 AU
morning rise	-8858 Aug 09 j 10:24	27°♉54'54	
	-8858 Aug 28 j 19:15	0°♊	
retrograde	-8858 Nov 15 j 16:20	4°♊33'18	
opposition	-8857 Jan 24 j 19:58	1°♊18'56	2°03'12
min. Earth dist.	-8857 Jan 25 j 11:20	1°♊16'09	9.32479 AU
	-8857 Feb 12 j 11:17	30°℞♉	
direct	-8857 Apr 06 j 23:53	27°♉59'55	
	-8857 May 28 j 18:01	0°♊	
evening set	-8857 Jul 18 j 04:03	4°♊51'27	
conjunction	-8857 Aug 03 j 16:35	6°♊44'04	1°51'09
minimum elong	-8857 Aug 03 j 16:32	6°♊44'03	1°51'39
max. Earth dist.	-8857 Aug 02 j 20:43	6°♊38'23	11.32185 AU
morning rise	-8857 Aug 20 j 02:18	8°♊35'59	
retrograde	-8857 Nov 26 j 19:17	15°♊16'30	
opposition	-8856 Feb 05 j 07:10	12°♊01'45	2°25'31
min. Earth dist.	-8856 Feb 06 j 01:55	11°♊58'21	9.31385 AU
direct	-8856 Apr 17 j 08:11	8°♊43'05	
evening set	-8856 Jul 28 j 00:33	15°♊34'16	
max. Earth dist.	-8856 Aug 12 j 11:34	17°♊20'03	11.29473 AU
conjunction	-8856 Aug 13 j 10:21	17°♊26'36	2°07'25
minimum elong	-8856 Aug 13 j 10:18	17°♊26'35	2°07'58
morning rise	-8856 Aug 29 j 18:17	19°♊18'29	
retrograde	-8856 Dec 07 j 02:36	26°♊03'07	
opposition	-8855 Feb 15 j 20:27	22°♊47'36	2°42'53
min. Earth dist.	-8855 Feb 16 j 17:03	22°♊43'52	9.27148 AU
direct	-8855 Apr 28 j 16:40	19°♊29'07	
evening set	-8855 Aug 07 j 21:24	26°♊21'30	
max. Earth dist.	-8855 Aug 23 j 05:44	28°♊07'16	11.23687 AU
conjunction	-8855 Aug 24 j 05:27	28°♊14'09	2°19'18
minimum elong	-8855 Aug 24 j 05:25	28°♊14'08	2°19'52
	-8855 Sep 08 j 13:08	0°♋	
morning rise	-8855 Sep 09 j 12:19	0°♋06'35	
retrograde	-8855 Dec 18 j 16:11	6°♋57'17	
opposition	-8854 Feb 27 j 13:39	3°♋40'41	2°54'42
min. Earth dist.	-8854 Feb 28 j 10:56	3°♋36'48	9.19897 AU
direct	-8854 May 10 j 01:26	0°♋22'10	
evening set	-8854 Aug 18 j 20:25	7°♋17'19	
max. Earth dist.	-8854 Sep 03 j 02:41	9°♋03'34	11.15006 AU
conjunction	-8854 Sep 04 j 03:36	9°♋10'51	2°26'16
minimum elong	-8854 Sep 04 j 03:35	9°♋10'51	2°26'49
morning rise	-8854 Sep 20 j 10:32	11°♋04'27	
retrograde	-8854 Dec 30 j 13:19	18°♋03'03	
opposition	-8853 Mar 11 j 11:58	14°♋45'09	3°00'21
min. Earth dist.	-8853 Mar 12 j 10:13	14°♋41'04	9.09855 AU
direct	-8853 May 21 j 11:51	11°♋26'24	
evening set	-8853 Aug 29 j 23:41	18°♋25'52	
max. Earth dist.	-8853 Sep 14 j 04:58	20°♋13'12	11.03705 AU
conjunction	-8853 Sep 15 j 06:59	20°♋20'55	2°27'52
minimum elong	-8853 Sep 15 j 06:59	20°♋20'55	2°28'24
morning rise	-8853 Oct 01 j 15:15	22°♋16'19	
retrograde	-8852 Jan 11 j 16:24	29°♋24'32	
opposition	-8852 Mar 22 j 16:28	26°♋05'05	2°59'14
min. Earth dist.	-8852 Mar 23 j 15:07	26°♋00'54	8.97338 AU
direct	-8852 Jun 01 j 02:35	22°♋45'54	
evening set	-8852 Sep 09 j 08:46	29°♋51'15	
	-8852 Sep 10 j 14:32	0°♌	

Attention, astronomical year style is used: The year -8852 in astronomical counting style is the year 8853 BCE in historical counting style.

conjunction	-8852 Sep 25 j 17:31	1°♌48'25	2°23'39
minimum elong	-8852 Sep 25 j 17:33	1°♌48'25	2°24'09
max. Earth dist.	-8852 Sep 24 j 16:18	1°♌40'50	10.90145 AU
morning rise	-8852 Oct 12 j 04:14	3°♌46'15	
retrograde	-8851 Jan 23 j 07:21	11°♌05'44	
opposition	-8851 Apr 04 j 04:42	7°♌44'32	2°50'49
min. Earth dist.	-8851 Apr 05 j 02:02	7°♌40'33	8.82766 AU
direct	-8851 Jun 13 j 00:41	4°♌24'47	
evening set	-8851 Sep 21 j 01:32	11°♌37'20	
conjunction	-8851 Oct 07 j 13:03	13°♌37'16	2°13'18
minimum elong	-8851 Oct 07 j 13:06	13°♌37'17	2°13'46
max. Earth dist.	-8851 Oct 06 j 14:25	13°♌30'20	10.74793 AU
	-8851 Oct 18 j 20:34	15°♌	
morning rise	-8851 Oct 24 j 03:19	15°♌38'10	
retrograde	-8850 Feb 05 j 10:06	23°♌10'16	
opposition	-8850 Apr 17 j 01:36	19°♌47'11	2°34'43
min. Earth dist.	-8850 Apr 17 j 20:02	19°♌43'42	8.66677 AU
direct	-8850 Jun 25 j 04:09	16°♌26'43	
evening set	-8850 Oct 03 j 04:21	23°♌47'47	
conjunction	-8850 Oct 19 j 19:42	25°♌51'01	1°56'41
minimum elong	-8850 Oct 19 j 19:45	25°♌51'03	1°57'04
max. Earth dist.	-8850 Oct 18 j 23:47	25°♌44'50	10.58251 AU
morning rise	-8850 Nov 05 j 14:42	27°♌55'32	
	-8850 Nov 23 j 04:29	0°♍	
retrograde	-8849 Feb 18 j 23:48	5°♍41'13	
opposition	-8849 Apr 30 j 07:44	2°♍16'13	2°10'47
min. Earth dist.	-8849 Apr 30 j 22:53	2°♍13'18	8.49742 AU
	-8849 Jun 01 j 15:53	30°℞♌	
direct	-8849 Jul 07 j 16:19	28°♌54'50	
	-8849 Aug 11 j 18:45	0°♍	
evening set	-8849 Oct 15 j 18:54	6°♍25'37	
conjunction	-8849 Nov 01 j 14:58	8°♍32'36	1°33'54
minimum elong	-8849 Nov 01 j 15:01	8°♍32'38	1°34'11
max. Earth dist.	-8849 Oct 31 j 22:09	8°♍27'17	10.41243 AU
morning rise	-8849 Nov 18 j 15:43	10°♍41'08	
retrograde	-8848 Mar 04 j 01:58	18°♍40'53	
opposition	-8848 May 12 j 23:47	15°♍13'59	1°39'18
min. Earth dist.	-8848 May 13 j 11:15	15°♍11'44	8.32755 AU
direct	-8848 Jul 19 j 14:23	11°♍51'36	
evening set	-8848 Oct 27 j 22:36	19°♍32'54	
conjunction	-8848 Nov 14 j 00:09	21°♍43'54	1°05'30
minimum elong	-8848 Nov 14 j 00:12	21°♍43'55	1°05'40
max. Earth dist.	-8848 Nov 13 j 12:06	21°♍40'01	10.24608 AU
morning rise	-8848 Dec 01 j 07:09	23°♍56'41	
	-8847 Jan 26 j 10:15	0°♎	
retrograde	-8847 Mar 18 j 15:28	2°♎10'16	
	-8847 May 10 j 05:05	30°℞♍	
opposition	-8847 May 27 j 01:31	28°♍41'35	1°01'08
min. Earth dist.	-8847 May 27 j 08:41	28°♍40'10	8.16620 AU
direct	-8847 Aug 01 j 23:05	25°♍18'05	
	-8847 Oct 15 j 13:41	0°♎	
evening set	-8847 Nov 10 j 16:54	3°♎10'22	
conjunction	-8847 Nov 28 j 00:23	5°♎25'24	0°32'32
minimum elong	-8847 Nov 28 j 00:24	5°♎25'25	0°32'33
max. Earth dist.	-8847 Nov 27 j 18:41	5°♎23'33	10.09267 AU
morning rise	-8847 Dec 15 j 13:38	7°♎42'21	
retrograde	-8846 Apr 02 j 14:54	16°♎08'37	
opposition	-8846 Jun 10 j 11:58	12°♎38'22	0°17'55
min. Earth dist.	-8846 Jun 10 j 13:52	12°♎37'59	8.02289 AU
direct	-8846 Aug 15 j 19:33	9°♎13'41	
desc. node	-8846 Nov 07 j 07:22	15°♎02'36	
evening set	-8846 Nov 25 j 02:10	17°♎16'52	

conjunction	-8846 Dec 12 j 15:27	19°♎35'38	-0°03'26
minimum elong	-8846 Dec 12 j 15:27	19°♎35'38	0°03'34
behind sun begin	-8846 Dec 12 j 08:15	19°♎33'16	
behind sun end	-8846 Dec 12 j 22:39	19°♎38'00	
max. Earth dist.	-8846 Dec 12 j 16:52	19°♎36'04	9.96159 AU
morning rise	-8846 Dec 30 j 10:25	21°♎56'18	
	-8845 Mar 24 j 02:43	0°♏	
retrograde	-8845 Apr 17 j 21:50	0°♏33'03	
	-8845 May 12 j 20:12	30°℞♎	
opposition	-8845 Jun 25 j 05:50	27°♎01'34	-0°27'50
min. Earth dist.	-8845 Jun 25 j 02:00	27°♎02'21	7.90675 AU
direct	-8845 Aug 30 j 02:49	23°♎35'41	
	-8845 Nov 25 j 21:50	0°♏	
evening set	-8845 Dec 10 j 01:35	1°♏48'53	
conjunction	-8845 Dec 27 j 19:57	4°♏10'44	-0°39'57
minimum elong	-8845 Dec 27 j 19:55	4°♏10'43	0°40'13
max. Earth dist.	-8845 Dec 28 j 04:41	4°♏13'39	9.86149 AU
morning rise	-8844 Jan 14 j 19:31	6°♏34'19	
	-8844 Apr 14 j 05:03	15°♏	
retrograde	-8844 May 02 j 09:58	15°♏18'18	
	-8844 May 20 j 17:15	15°℞♏	
opposition	-8844 Jul 09 j 04:53	11°♏45'58	-1°12'56
min. Earth dist.	-8844 Jul 08 j 19:27	11°♏47'56	7.82559 AU
direct	-8844 Sep 12 j 18:17	8°♏18'55	
	-8844 Dec 11 j 14:21	15°♏	
evening set	-8844 Dec 24 j 13:06	16°♏40'26	
conjunction	-8843 Jan 11 j 11:29	19°♏04'24	-1°14'31
minimum elong	-8843 Jan 11 j 11:26	19°♏04'23	1°14'54
max. Earth dist.	-8843 Jan 12 j 02:50	19°♏09'34	9.79927 AU
morning rise	-8843 Jan 29 j 14:18	21°♏29'50	
	-8843 Apr 30 j 14:54	0°♐	
retrograde	-8843 May 17 j 23:50	0°♐16'55	
	-8843 Jun 04 j 10:09	30°℞♏	
opposition	-8843 Jul 24 j 06:23	26°♏44'14	-1°53'48
min. Earth dist.	-8843 Jul 23 j 16:25	26°♏47'10	7.78464 AU
direct	-8843 Sep 27 j 16:46	23°♏16'04	
	-8843 Dec 27 j 01:15	0°♐	
evening set	-8842 Jan 09 j 09:14	1°♐43'27	
conjunction	-8842 Jan 27 j 10:24	4°♐08'27	-1°44'22
minimum elong	-8842 Jan 27 j 10:20	4°♐08'25	1°44'51
max. Earth dist.	-8842 Jan 28 j 06:47	4°♐15'19	9.77855 AU
morning rise	-8842 Feb 14 j 14:55	6°♐34'30	
retrograde	-8842 Jun 02 j 11:30	15°♐20'12	
opposition	-8842 Aug 08 j 07:34	11°♐47'45	-2°27'02
min. Earth dist.	-8842 Aug 07 j 14:36	11°♐51'19	7.78570 AU
direct	-8842 Oct 12 j 19:54	8°♐18'40	
evening set	-8841 Jan 25 j 09:36	16°♐48'56	
conjunction	-8841 Feb 12 j 12:12	19°♐13'48	-2°07'07
minimum elong	-8841 Feb 12 j 12:08	19°♐13'47	2°07'39
max. Earth dist.	-8841 Feb 13 j 12:10	19°♐21'50	9.80014 AU
morning rise	-8841 Mar 02 j 16:52	21°♐39'16	
	-8841 May 30 j 07:41	0°♑	
retrograde	-8841 Jun 17 j 17:19	0°♑19'11	
	-8841 Jul 06 j 01:35	30°℞♐	
min. Earth dist.	-8841 Aug 22 j 10:37	26°♐51'30	7.82870 AU
opposition	-8841 Aug 23 j 05:29	26°♐47'31	-2°50'01
direct	-8841 Oct 28 j 01:29	23°♐17'49	
	-8840 Jan 27 j 08:07	0°♑	
evening set	-8840 Feb 10 j 09:07	1°♑47'27	
conjunction	-8840 Feb 28 j 12:03	4°♑11'09	-2°21'06
minimum elong	-8840 Feb 28 j 12:02	4°♑11'08	2°21'41
max. Earth dist.	-8840 Feb 29 j 14:17	4°♑19'52	9.86340 AU

Attention, astronomical year style is used: The year -8840 in astronomical counting style is the year 8841 BCE in historical counting style.

morning rise	-8840 Mar 17 j 15:41	6°♑34'57	
retrograde	-8840 Jul 01 j 13:38	15°♑05'00	
opposition	-8840 Sep 05 j 21:37	11°♑34'34	-3°01'15
min. Earth dist.	-8840 Sep 05 j 01:48	11°♑38'44	7.91167 AU
direct	-8840 Nov 11 j 06:26	8°♑04'34	
evening set	-8839 Feb 25 j 02:50	16°♑29'53	
conjunction	-8839 Mar 15 j 05:14	18°♑51'31	-2°25'40
minimum elong	-8839 Mar 15 j 05:14	18°♑51'31	2°26'14
max. Earth dist.	-8839 Mar 16 j 08:03	19°♑00'19	9.96472 AU
morning rise	-8839 Apr 02 j 06:57	21°♑12'47	
retrograde	-8839 Jul 15 j 20:54	29°♑29'46	
min. Earth dist.	-8839 Sep 19 j 09:53	26°♑05'04	8.02917 AU
opposition	-8839 Sep 20 j 05:39	26°♑00'57	-3°00'36
direct	-8839 Nov 26 j 06:40	22°♑31'00	
	-8838 Mar 05 j 23:07	0°♒	
evening set	-8838 Mar 12 j 10:48	0°♒48'48	
conjunction	-8838 Mar 30 j 11:54	3°♒07'42	-2°21'06
minimum elong	-8838 Mar 30 j 11:56	3°♒07'43	2°21'37
max. Earth dist.	-8838 Mar 31 j 13:36	3°♒16'00	10.09713 AU
morning rise	-8838 Apr 17 j 10:57	5°♒25'49	
retrograde	-8838 Jul 29 j 15:31	13°♒27'51	
min. Earth dist.	-8838 Oct 03 j 08:55	10°♒04'48	8.17328 AU
opposition	-8838 Oct 04 j 04:04	10°♒00'52	-2°49'05
direct	-8838 Dec 10 j 23:10	6°♒31'20	
evening set	-8837 Mar 27 j 05:57	14°♒39'14	
	-8837 Mar 30 j 00:40	15°♒	
conjunction	-8837 Apr 14 j 05:09	16°♒55'00	-2°08'27
minimum elong	-8837 Apr 14 j 05:12	16°♒55'01	2°08'53
max. Earth dist.	-8837 Apr 15 j 04:47	17°♒02'30	10.25186 AU
morning rise	-8837 May 02 j 01:04	19°♒09'38	
retrograde	-8837 Aug 11 j 22:24	26°♒56'05	
opposition	-8837 Oct 17 j 16:20	23°♒31'03	-2°28'31
min. Earth dist.	-8837 Oct 16 j 22:45	23°♒34'37	8.33488 AU
direct	-8837 Dec 25 j 05:34	20°♒02'16	
evening set	-8836 Apr 09 j 10:39	27°♒58'50	
	-8836 Apr 25 j 19:11	0°♓	
conjunction	-8836 Apr 27 j 07:26	0°♓11'17	-1°49'15
minimum elong	-8836 Apr 27 j 07:30	0°♓11'18	1°49'35
max. Earth dist.	-8836 Apr 28 j 04:10	0°♓17'44	10.41936 AU
morning rise	-8836 May 14 j 23:54	2°♓22'20	
retrograde	-8836 Aug 23 j 17:16	9°♓53'38	
opposition	-8836 Oct 29 j 18:23	6°♓30'36	-2°01'03
min. Earth dist.	-8836 Oct 29 j 03:41	6°♓33'32	8.50454 AU
direct	-8835 Jan 07 j 01:48	3°♓02'49	
evening set	-8835 Apr 23 j 01:08	10°♓47'39	
conjunction	-8835 May 10 j 18:52	12°♓56'43	-1°25'12
minimum elong	-8835 May 10 j 18:56	12°♓56'44	1°25'26
max. Earth dist.	-8835 May 11 j 11:24	13°♓01'46	10.59024 AU
morning rise	-8835 May 28 j 07:34	15°♓04'14	
retrograde	-8835 Sep 05 j 00:06	22°♓21'38	
opposition	-8835 Nov 11 j 10:49	19°♓00'34	-1°28'52
min. Earth dist.	-8835 Nov 11 j 00:14	19°♓02'38	8.67346 AU
direct	-8834 Jan 20 j 11:41	15°♓33'56	
evening set	-8834 May 06 j 01:48	23°♓07'22	
conjunction	-8834 May 23 j 15:56	25°♓13'09	-0°57'57
minimum elong	-8834 May 23 j 15:58	25°♓13'10	0°58'04
max. Earth dist.	-8834 May 24 j 03:01	25°♓16'28	10.75608 AU
morning rise	-8834 Jun 10 j 00:47	27°♓17'20	
	-8834 Jul 04 j 07:25	0°♈	
retrograde	-8834 Sep 16 j 21:34	4°♈22'41	
opposition	-8834 Nov 23 j 18:48	1°♈03'22	-0°53'56

min. Earth dist.	-8834 Nov 23 j 12:19	1°♈04'37	8.83390 AU
	-8834 Dec 07 j 17:15	30°℞♓	
direct	-8833 Feb 02 j 10:52	27°♓38'02	
	-8833 Mar 29 j 23:50	0°♈	
evening set	-8833 May 18 j 13:39	5°♈00'54	
conjunction	-8833 Jun 04 j 23:48	7°♈03'37	-0°29'02
minimum elong	-8833 Jun 04 j 23:50	7°♈03'37	0°29'02
max. Earth dist.	-8833 Jun 05 j 05:03	7°♈05'10	10.90972 AU
morning rise	-8833 Jun 22 j 04:45	9°♈04'47	
retrograde	-8833 Sep 28 j 09:55	16°♈00'11	
opposition	-8833 Dec 05 j 19:21	12°♈42'24	-0°17'57
min. Earth dist.	-8833 Dec 05 j 16:25	12°♈42'58	8.97919 AU
direct	-8832 Feb 15 j 01:21	9°♈18'25	
evening set	-8832 May 29 j 14:34	16°♈31'59	
asc. node	-8832 Jun 11 j 19:08	18°♈03'29	
conjunction	-8832 Jun 15 j 20:38	18°♈31'56	0°00'20
minimum elong	-8832 Jun 15 j 20:40	18°♈31'56	0°00'27
behind sun begin	-8832 Jun 15 j 13:36	18°♈29'54	
behind sun end	-8832 Jun 16 j 03:43	18°♈33'58	
max. Earth dist.	-8832 Jun 15 j 21:08	18°♈32'03	11.04518 AU
morning rise	-8832 Jul 02 j 21:31	20°♈30'24	
retrograde	-8832 Oct 08 j 18:50	27°♈18'06	
opposition	-8832 Dec 16 j 13:50	24°♈01'36	0°17'38
min. Earth dist.	-8832 Dec 16 j 14:30	24°♈01'29	9.10391 AU
direct	-8831 Feb 26 j 06:37	20°♈38'57	
evening set	-8831 Jun 10 j 06:18	27°♈44'43	
conjunction	-8831 Jun 27 j 08:14	29°♈42'17	0°28'59
minimum elong	-8831 Jun 27 j 08:12	29°♈42'17	0°29'12
max. Earth dist.	-8831 Jun 27 j 04:34	29°♈41'14	11.15763 AU
	-8831 Jun 29 j 21:32	0°♉	
morning rise	-8831 Jul 14 j 04:58	1°♉38'26	
retrograde	-8831 Oct 19 j 22:44	8°♉20'41	
opposition	-8831 Dec 28 j 04:15	5°♉05'12	0°51'43
min. Earth dist.	-8831 Dec 28 j 09:24	5°♉04'15	9.20389 AU
direct	-8830 Mar 10 j 02:53	1°♉43'48	
evening set	-8830 Jun 21 j 14:34	8°♉43'23	
conjunction	-8830 Jul 08 j 12:11	10°♉38'55	0°56'02
minimum elong	-8830 Jul 08 j 12:08	10°♉38'54	0°56'20
max. Earth dist.	-8830 Jul 08 j 03:29	10°♉36'25	11.24351 AU
morning rise	-8830 Jul 25 j 05:12	12°♉33'14	
	-8830 Aug 17 j 01:37	15°♉	
retrograde	-8830 Oct 31 j 00:09	19°♉12'18	
opposition	-8829 Jan 08 j 15:52	15°♉57'30	1°23'18
min. Earth dist.	-8829 Jan 09 j 01:19	15°♉55'47	9.27606 AU
	-8829 Jan 21 j 22:07	15°℞♉	
direct	-8829 Mar 21 j 19:15	12°♉37'12	
	-8829 May 17 j 13:59	15°♉	
evening set	-8829 Jul 02 j 17:16	19°♉32'15	
conjunction	-8829 Jul 19 j 10:49	21°♉26'14	1°20'45
minimum elong	-8829 Jul 19 j 10:46	21°♉26'13	1°21'08
max. Earth dist.	-8829 Jul 18 j 21:22	21°♉22'23	11.30030 AU
morning rise	-8829 Aug 05 j 00:34	23°♉19'10	
retrograde	-8829 Nov 11 j 00:29	29°♉57'11	
opposition	-8828 Jan 20 j 01:54	26°♉42'44	1°51'36
min. Earth dist.	-8828 Jan 20 j 14:31	26°♉40'26	9.31814 AU
direct	-8828 Apr 01 j 06:40	23°♉23'22	
	-8828 Jul 10 j 08:08	0°♊	
evening set	-8828 Jul 12 j 16:02	0°♊15'33	
conjunction	-8828 Jul 29 j 06:06	2°♊08'26	1°42'26
minimum elong	-8828 Jul 29 j 06:03	2°♊08'26	1°42'54
max. Earth dist.	-8828 Jul 28 j 13:43	2°♊03'45	11.32623 AU

Attention, astronomical year style is used: The year -8828 in astronomical counting style is the year 8829 BCE in historical counting style.

morning rise	-8828 Aug 14 j 16:54	4°♊00'31	
retrograde	-8828 Nov 21 j 04:03	10°♊39'36	
opposition	-8827 Jan 30 j 12:13	7°♊25'07	2°15'54
min. Earth dist.	-8827 Jan 31 j 03:18	7°♊22'23	9.32871 AU
direct	-8827 Apr 12 j 16:03	4°♊06'29	
evening set	-8827 Jul 23 j 12:43	10°♊57'24	
conjunction	-8827 Aug 08 j 23:46	12°♊49'43	2°00'31
minimum elong	-8827 Aug 08 j 23:43	12°♊49'42	2°01'02
max. Earth dist.	-8827 Aug 08 j 04:46	12°♊44'16	11.32039 AU
morning rise	-8827 Aug 25 j 08:14	14°♊41'26	
retrograde	-8827 Dec 02 j 10:03	21°♊23'34	
opposition	-8826 Feb 11 j 00:20	18°♊08'45	2°35'33
min. Earth dist.	-8826 Feb 11 j 18:19	18°♊05'30	9.30742 AU
direct	-8826 Apr 23 j 22:14	14°♊50'37	
evening set	-8826 Aug 03 j 09:08	21°♊41'50	
conjunction	-8826 Aug 19 j 17:47	23°♊34'07	2°14'25
minimum elong	-8826 Aug 19 j 17:44	23°♊34'06	2°14'59
max. Earth dist.	-8826 Aug 18 j 19:34	23°♊27'43	11.28307 AU
morning rise	-8826 Sep 05 j 00:57	25°♊26'05	
	-8826 Oct 21 j 04:33	0°♋	
retrograde	-8826 Dec 13 j 19:04	2°♋13'11	
	-8825 Feb 08 j 01:03	30°℞♊	
opposition	-8825 Feb 22 j 15:23	28°♊57'39	2°49'55
min. Earth dist.	-8825 Feb 23 j 11:59	28°♊53'54	9.25490 AU
direct	-8825 May 05 j 06:06	25°♊39'42	
	-8825 Jul 21 j 16:53	0°♋	
evening set	-8825 Aug 14 j 06:47	2°♋32'50	
conjunction	-8825 Aug 30 j 14:02	4°♋25'40	2°23'39
minimum elong	-8825 Aug 30 j 14:01	4°♋25'39	2°24'13
max. Earth dist.	-8825 Aug 29 j 13:57	4°♋18'40	11.21520 AU
morning rise	-8825 Sep 15 j 20:52	6°♋18'27	
retrograde	-8825 Dec 25 j 12:04	13°♋12'24	
opposition	-8824 Mar 05 j 10:40	9°♋55'46	2°58'24
min. Earth dist.	-8824 Mar 06 j 08:16	9°♋51'50	9.17226 AU
direct	-8824 May 15 j 16:43	6°♋37'48	
evening set	-8824 Aug 24 j 07:26	13°♋34'18	
conjunction	-8824 Sep 09 j 14:29	15°♋28'18	2°27'44
minimum elong	-8824 Sep 09 j 14:29	15°♋28'18	2°28'17
max. Earth dist.	-8824 Sep 08 j 14:10	15°♋21'09	11.11826 AU
morning rise	-8824 Sep 25 j 21:48	17°♋22'31	
retrograde	-8823 Jan 05 j 11:49	24°♋25'06	
opposition	-8823 Mar 17 j 11:34	21°♋07'05	3°00'25
min. Earth dist.	-8823 Mar 18 j 09:10	21°♋03'07	9.06144 AU
direct	-8823 May 27 j 04:49	17°♋48'50	
evening set	-8823 Sep 04 j 13:06	24°♋50'16	
conjunction	-8823 Sep 20 j 20:58	26°♋46'04	2°26'13
minimum elong	-8823 Sep 20 j 21:00	26°♋46'04	2°26'45
max. Earth dist.	-8823 Sep 19 j 20:14	26°♋38'42	10.99477 AU
morning rise	-8823 Oct 07 j 06:06	28°♋42'22	
	-8823 Oct 18 j 13:24	0°♌	
retrograde	-8822 Jan 17 j 22:06	5°♌55'19	
opposition	-8822 Mar 29 j 19:33	2°♌35'39	2°55'24
min. Earth dist.	-8822 Mar 30 j 16:59	2°♌31'40	8.92552 AU
	-8822 May 08 j 23:20	30°℞♋	
direct	-8822 Jun 07 j 22:26	29°♋16'51	
	-8822 Jul 07 j 06:58	0°♌	
evening set	-8822 Sep 16 j 01:33	6°♌24'46	
max. Earth dist.	-8822 Oct 01 j 10:20	8°♌15'26	10.84854 AU
conjunction	-8822 Oct 02 j 11:24	8°♌23'01	2°18'45
minimum elong	-8822 Oct 02 j 11:26	8°♌23'02	2°19'14
morning rise	-8822 Oct 18 j 23:45	10°♌22'06	

	-8822 Dec 01 j 19:38	15°♌	
retrograde	-8821 Jan 30 j 17:35	17°♌46'57	
	-8821 Apr 03 j 18:42	15°℞♌	
opposition	-8821 Apr 11 j 11:38	14°♌25'26	2°42'56
min. Earth dist.	-8821 Apr 12 j 08:32	14°♌21'30	8.76931 AU
direct	-8821 Jun 19 j 21:33	11°♌05'53	
	-8821 Aug 29 j 00:38	15°♌	
evening set	-8821 Sep 27 j 22:53	18°♌21'45	
conjunction	-8821 Oct 14 j 12:00	20°♌23'03	2°05'05
minimum elong	-8821 Oct 14 j 12:04	20°♌23'04	2°05'30
max. Earth dist.	-8821 Oct 13 j 12:49	20°♌15'55	10.68529 AU
morning rise	-8821 Oct 31 j 04:37	22°♌25'30	
	-8820 Feb 04 j 14:32	0°♍	
retrograde	-8820 Feb 12 j 23:26	0°♍03'32	
	-8820 Feb 21 j 10:37	30°℞♌	
opposition	-8820 Apr 23 j 12:33	26°♌39'59	2°22'43
min. Earth dist.	-8820 Apr 24 j 07:13	26°♌36'25	8.59959 AU
direct	-8820 Jul 01 j 06:20	23°♌19'27	
	-8820 Oct 03 j 04:08	0°♍	
evening set	-8820 Oct 09 j 06:51	0°♍44'31	
max. Earth dist.	-8820 Oct 25 j 05:03	2°♍43'20	10.51237 AU
conjunction	-8820 Oct 26 j 00:27	2°♍49'24	1°45'13
minimum elong	-8820 Oct 26 j 00:31	2°♍49'26	1°45'32
morning rise	-8820 Nov 11 j 22:14	4°♍55'42	
retrograde	-8819 Feb 25 j 19:15	12°♍47'43	
opposition	-8819 May 06 j 23:10	9°♍22'02	1°54'50
min. Earth dist.	-8819 May 07 j 13:56	9°♍19'10	8.42435 AU
direct	-8819 Jul 13 j 23:55	6°♍00'22	
evening set	-8819 Oct 22 j 03:15	13°♍35'36	
max. Earth dist.	-8819 Nov 07 j 11:25	15°♍39'45	10.33812 AU
conjunction	-8819 Nov 08 j 02:09	15°♍44'27	1°19'28
minimum elong	-8819 Nov 08 j 02:12	15°♍44'28	1°19'40
morning rise	-8819 Nov 25 j 05:53	17°♍54'57	
retrograde	-8818 Mar 12 j 02:59	26°♍01'05	
opposition	-8818 May 20 j 19:31	22°♍33'19	1°19'49
min. Earth dist.	-8818 May 21 j 05:24	22°♍31'22	8.25242 AU
direct	-8818 Jul 27 j 02:22	19°♍10'22	
evening set	-8818 Nov 04 j 13:49	26°♍56'32	
conjunction	-8818 Nov 21 j 18:26	29°♍09'29	0°48'36
minimum elong	-8818 Nov 21 j 18:29	29°♍09'29	0°48'40
max. Earth dist.	-8818 Nov 21 j 08:35	29°♍06'17	10.17165 AU
	-8818 Nov 28 j 06:13	0°♎	
morning rise	-8818 Dec 09 j 04:30	1°♎24'16	
retrograde	-8817 Mar 26 j 21:18	9°♎43'52	
opposition	-8817 Jun 04 j 01:00	6°♎14'11	0°38'54
min. Earth dist.	-8817 Jun 04 j 05:58	6°♎13'11	8.09330 AU
direct	-8817 Aug 09 j 15:54	2°♎49'52	
evening set	-8817 Nov 18 j 15:10	10°♎47'15	
conjunction	-8817 Dec 06 j 01:34	13°♎04'10	0°13'59
minimum elong	-8817 Dec 06 j 01:35	13°♎04'11	0°13'55
behind sun begin	-8817 Dec 05 j 21:53	13°♎02'58	
behind sun end	-8817 Dec 06 j 05:17	13°♎05'23	
max. Earth dist.	-8817 Dec 05 j 21:30	13°♎02'51	10.02251 AU
morning rise	-8817 Dec 23 j 17:47	15°♎23'01	
retrograde	-8816 Apr 10 j 00:34	23°♎54'32	
desc. node	-8816 Apr 30 j 09:35	23°♎32'25	
opposition	-8816 Jun 17 j 14:58	20°♎23'15	-0°05'52
min. Earth dist.	-8816 Jun 17 j 14:53	20°♎23'16	7.95664 AU
direct	-8816 Aug 22 j 16:54	16°♎57'32	
evening set	-8816 Dec 02 j 07:05	25°♎05'44	
conjunction	-8816 Dec 19 j 22:56	27°♎26'10	-0°22'33

Attention, astronomical year style is used: The year -8816 in astronomical counting style is the year 8817 BCE in historical counting style.

minimum elong	-8816 Dec 19 j 22:55	27°♎26'10	0°22'45
max. Earth dist.	-8816 Dec 20 j 01:32	27°♎27'02	9.90013 AU
morning rise	-8815 Jan 06 j 20:32	29°♎48'28	
	-8815 Jan 08 j 07:53	0°♏	
retrograde	-8815 Apr 25 j 10:27	8°♏29'19	
opposition	-8815 Jul 02 j 11:30	4°♏56'50	-0°51'38
min. Earth dist.	-8815 Jul 02 j 06:20	4°♏57'54	7.85145 AU
direct	-8815 Sep 06 j 03:58	1°♏29'45	
evening set	-8815 Dec 17 j 12:42	9°♏47'37	
conjunction	-8814 Jan 04 j 09:13	12°♏10'47	-0°58'22
minimum elong	-8814 Jan 04 j 09:10	12°♏10'46	0°58'41
max. Earth dist.	-8814 Jan 04 j 18:45	12°♏14'00	9.81288 AU
morning rise	-8814 Jan 22 j 10:53	14°♏35'37	
	-8814 Jan 25 j 13:16	15°♏	
retrograde	-8814 May 10 j 23:51	23°♏22'04	
opposition	-8814 Jul 17 j 12:03	19°♏48'55	-1°34'59
min. Earth dist.	-8814 Jul 17 j 02:02	19°♏51'01	7.78508 AU
direct	-8814 Sep 20 j 23:48	16°♏20'36	
evening set	-8813 Jan 02 j 05:08	24°♏46'03	
conjunction	-8813 Jan 20 j 05:10	27°♏10'53	-1°30'48
minimum elong	-8813 Jan 20 j 05:05	27°♏10'52	1°31'14
max. Earth dist.	-8813 Jan 20 j 21:25	27°♏16'23	9.76711 AU
morning rise	-8813 Feb 07 j 09:17	29°♏37'02	
	-8813 Feb 10 j 07:04	0°♐	
retrograde	-8813 May 26 j 12:52	8°♐24'40	
opposition	-8813 Aug 01 j 14:01	4°♐51'25	-2°12'18
min. Earth dist.	-8813 Jul 31 j 23:25	4°♐54'30	7.76236 AU
direct	-8813 Oct 06 j 02:01	1°♐22'05	
evening set	-8812 Jan 18 j 04:06	9°♐52'08	
conjunction	-8812 Feb 05 j 06:18	12°♐17'27	-1°57'13
minimum elong	-8812 Feb 05 j 06:14	12°♐17'26	1°57'44
max. Earth dist.	-8812 Feb 06 j 04:26	12°♐24'55	9.76637 AU
morning rise	-8812 Feb 23 j 11:14	14°♐43'37	
retrograde	-8812 Jun 09 j 21:36	23°♐27'42	
opposition	-8812 Aug 15 j 14:14	19°♐54'55	-2°40'29
min. Earth dist.	-8812 Aug 14 j 19:50	19°♐58'49	7.78496 AU
direct	-8812 Oct 20 j 07:35	16°♐24'52	
evening set	-8811 Feb 02 j 04:54	24°♐55'57	
conjunction	-8811 Feb 20 j 08:03	27°♐20'34	-2°15'34
minimum elong	-8811 Feb 20 j 08:00	27°♐20'34	2°16'07
max. Earth dist.	-8811 Feb 21 j 10:23	27°♐29'23	9.81083 AU
morning rise	-8811 Mar 10 j 12:26	29°♐45'33	
	-8811 Mar 12 j 08:43	0°♑	
retrograde	-8811 Jun 24 j 22:34	8°♑21'31	
opposition	-8811 Aug 30 j 09:37	4°♑49'48	-2°57'27
min. Earth dist.	-8811 Aug 29 j 12:54	4°♑54'10	7.85109 AU
direct	-8811 Nov 04 j 12:55	1°♑19'21	
evening set	-8810 Feb 18 j 02:20	9°♑47'44	
conjunction	-8810 Mar 08 j 05:22	12°♑10'40	-2°24'39
minimum elong	-8810 Mar 08 j 05:21	12°♑10'40	2°25'14
max. Earth dist.	-8810 Mar 09 j 09:53	12°♑20'06	9.89707 AU
morning rise	-8810 Mar 26 j 08:05	14°♑33'25	
retrograde	-8810 Jul 09 j 12:49	22°♑57'36	
opposition	-8810 Sep 13 j 21:59	19°♑27'26	-3°02'23
min. Earth dist.	-8810 Sep 13 j 00:30	19°♑31'56	7.95576 AU
direct	-8810 Nov 19 j 14:29	15°♑56'59	
evening set	-8809 Mar 05 j 15:34	24°♑19'11	
conjunction	-8809 Mar 23 j 17:33	26°♑39'38	-2°24'20
minimum elong	-8809 Mar 23 j 17:34	26°♑39'38	2°24'53
max. Earth dist.	-8809 Mar 24 j 22:18	26°♑49'00	10.01875 AU
morning rise	-8809 Apr 10 j 17:52	28°♑59'27	
	-8809 Apr 18 j 18:10	0°♒	
retrograde	-8809 Jul 23 j 15:23	7°♒09'20	
min. Earth dist.	-8809 Sep 27 j 04:45	3°♒45'21	8.09160 AU
opposition	-8809 Sep 28 j 01:24	3°♒41'05	-2°55'49
direct	-8809 Dec 04 j 10:01	0°♒11'03	
evening set	-8808 Mar 19 j 17:17	8°♒24'17	
conjunction	-8808 Apr 06 j 17:33	10°♒41'45	-2°15'20
minimum elong	-8808 Apr 06 j 17:36	10°♒41'46	2°15'49
max. Earth dist.	-8808 Apr 07 j 20:22	10°♒50'20	10.16758 AU
morning rise	-8808 Apr 24 j 15:01	12°♒58'11	
	-8808 May 11 j 07:27	15°♒	
retrograde	-8808 Aug 05 j 04:57	20°♒52'32	
opposition	-8808 Oct 10 j 18:46	17°♒26'25	-2°39'14
min. Earth dist.	-8808 Oct 10 j 00:06	17°♒30'13	8.24981 AU
	-8808 Nov 13 j 01:53	15°℞♒	
direct	-8808 Dec 17 j 21:24	13°♒57'10	
	-8807 Jan 21 j 17:05	15°♒	
evening set	-8807 Apr 03 j 05:26	21°♒59'39	
conjunction	-8807 Apr 21 j 03:25	24°♒13'48	-1°58'59
minimum elong	-8807 Apr 21 j 03:28	24°♒13'49	1°59'23
max. Earth dist.	-8807 Apr 22 j 02:28	24°♒21'02	10.33408 AU
morning rise	-8807 May 08 j 21:42	26°♒26'41	
	-8807 Jun 08 j 19:43	0°♓	
retrograde	-8807 Aug 18 j 04:41	4°♓05'26	
min. Earth dist.	-8807 Oct 23 j 09:40	0°♓44'50	8.42080 AU
opposition	-8807 Oct 24 j 01:57	0°♓41'33	-2°14'41
	-8807 Nov 01 j 18:34	30°℞♒	
direct	-8806 Jan 01 j 00:17	27°♒13'23	
	-8806 Feb 28 j 20:20	0°♓	
evening set	-8806 Apr 17 j 03:11	5°♓04'13	
conjunction	-8806 May 04 j 22:19	7°♓14'56	-1°36'58
minimum elong	-8806 May 04 j 22:23	7°♓14'57	1°37'15
max. Earth dist.	-8806 May 05 j 17:03	7°♓20'42	10.50855 AU
morning rise	-8806 May 22 j 13:02	9°♓24'13	
retrograde	-8806 Aug 30 j 16:37	16°♓48'22	
opposition	-8806 Nov 05 j 23:15	13°♓26'38	-1°44'23
min. Earth dist.	-8806 Nov 05 j 09:38	13°♓29'19	8.59525 AU
direct	-8805 Jan 14 j 16:12	9°♓59'46	
evening set	-8805 Apr 30 j 10:43	17°♓38'51	
conjunction	-8805 May 18 j 02:37	19°♓46'12	-1°10'58
minimum elong	-8805 May 18 j 02:40	19°♓46'13	1°11'09
max. Earth dist.	-8805 May 18 j 16:58	19°♓50'32	10.68192 AU
morning rise	-8805 Jun 04 j 13:27	21°♓51'59	
retrograde	-8805 Sep 11 j 20:08	29°♓03'05	
opposition	-8805 Nov 18 j 11:27	25°♓43'19	-1°10'26
min. Earth dist.	-8805 Nov 18 j 01:18	25°♓45'18	8.76459 AU
direct	-8804 Jan 27 j 19:51	22°♓17'52	
evening set	-8804 May 12 j 04:56	29°♓45'46	
	-8804 May 14 j 05:40	0°♈	
conjunction	-8804 May 29 j 17:11	1°♈49'56	-0°42'37
minimum elong	-8804 May 29 j 17:13	1°♈49'56	0°42'40
max. Earth dist.	-8804 May 30 j 02:57	1°♈52'50	10.84590 AU
morning rise	-8804 Jun 15 j 23:57	3°♈52'29	
retrograde	-8804 Sep 22 j 13:44	10°♈52'28	
opposition	-8804 Nov 29 j 15:45	7°♈34'28	-0°34'42
min. Earth dist.	-8804 Nov 29 j 10:22	7°♈35'29	8.92102 AU
direct	-8803 Feb 08 j 13:49	4°♈10'23	
evening set	-8803 May 24 j 11:29	11°♈28'15	
conjunction	-8803 Jun 10 j 19:35	13°♈29'27	-0°13'19
minimum elong	-8803 Jun 10 j 19:36	13°♈29'27	0°13'14
behind sun begin	-8803 Jun 10 j 15:28	13°♈28'15	

Attention, astronomical year style is used: The year -8803 in astronomical counting style is the year 8804 BCE in historical counting style.

behind sun end	-8803 Jun 10 j 23:44	13°♈30'39		
max. Earth dist.	-8803 Jun 10 j 23:19	13°♈30'32	10.99314 AU	
morning rise	-8803 Jun 27 j 22:15	15°♈29'06		
retrograde	-8803 Oct 04 j 00:18	22°♈20'11		
asc. node	-8803 Nov 28 j 11:39	20°♈01'42		
opposition	-8803 Dec 11 j 13:24	19°♈03'38	0°01'15	
min. Earth dist.	-8803 Dec 11 j 13:01	19°♈03'43	9.05780 AU	
direct	-8802 Feb 20 j 23:47	15°♈40'52		
evening set	-8802 Jun 05 j 07:52	22°♈50'10		
conjunction	-8802 Jun 22 j 11:37	24°♈48'45	0°15'51	
minimum elong	-8802 Jun 22 j 11:36	24°♈48'45	0°16'02	
behind sun begin	-8802 Jun 22 j 11:03	24°♈48'35		
behind sun end	-8802 Jun 22 j 12:09	24°♈48'54		
max. Earth dist.	-8802 Jun 22 j 08:59	24°♈48'00	11.11763 AU	
morning rise	-8802 Jul 09 j 10:21	26°♈45'54		
	-8802 Aug 09 j 00:53	0°♉		
retrograde	-8802 Oct 15 j 05:03	3°♉30'27		
opposition	-8802 Dec 23 j 05:56	0°♉15'00	0°36'10	
min. Earth dist.	-8802 Dec 23 j 09:39	0°♉14'19	9.16959 AU	
	-8802 Dec 26 j 14:54	30°℞♈		
direct	-8801 Mar 05 j 01:20	26°♈53'29		
	-8801 May 09 j 09:20	0°♉		
evening set	-8801 Jun 16 j 19:40	3°♉55'49		
conjunction	-8801 Jul 03 j 19:15	5°♉52'13	0°43'45	
minimum elong	-8801 Jul 03 j 19:13	5°♉52'12	0°44'01	
max. Earth dist.	-8801 Jul 03 j 11:47	5°♉50'04	11.21506 AU	
morning rise	-8801 Jul 20 j 14:06	7°♉47'19		
retrograde	-8801 Oct 26 j 08:35	14°♉27'40		
opposition	-8800 Jan 03 j 18:50	11°♉12'58	1°09'02	
min. Earth dist.	-8800 Jan 04 j 02:13	11°♉11'37	9.25289 AU	
direct	-8800 Mar 15 j 21:03	7°♉52'32		
evening set	-8800 Jun 27 j 01:08	14°♉49'35		
	-8800 Jun 28 j 14:19	15°♉		
conjunction	-8800 Jul 13 j 20:43	16°♉44'14	1°09'39	
minimum elong	-8800 Jul 13 j 20:40	16°♉44'13	1°10'00	
max. Earth dist.	-8800 Jul 13 j 09:19	16°♉40'58	11.28281 AU	
morning rise	-8800 Jul 30 j 11:51	18°♉37'44		
retrograde	-8800 Nov 05 j 10:11	25°♉16'02		
opposition	-8799 Jan 14 j 05:40	22°♉01'44	1°38'57	
min. Earth dist.	-8799 Jan 14 j 17:16	21°♉59'37	9.30579 AU	
direct	-8799 Mar 27 j 09:20	18°♉42'09		
evening set	-8799 Jul 08 j 01:59	25°♉35'35		
conjunction	-8799 Jul 24 j 17:39	27°♉28'56	1°32'49	
minimum elong	-8799 Jul 24 j 17:36	27°♉28'55	1°33'14	
max. Earth dist.	-8799 Jul 24 j 01:40	27°♉24'22	11.31952 AU	
morning rise	-8799 Aug 10 j 05:41	29°♉21'21		
	-8799 Aug 16 j 01:10	0°♊		
retrograde	-8799 Nov 16 j 11:10	5°♊59'44		
opposition	-8798 Jan 25 j 16:08	2°♊45'25	2°05'12	
min. Earth dist.	-8798 Jan 26 j 07:47	2°♊42'35	9.32725 AU	
	-8798 Mar 11 j 15:39	30°℞♉		
direct	-8798 Apr 07 j 20:06	29°♉26'27		
	-8798 May 04 j 17:38	0°♊		
evening set	-8798 Jul 18 j 23:36	6°♊17'52		
conjunction	-8798 Aug 04 j 11:53	8°♊10'24	1°52'38	
minimum elong	-8798 Aug 04 j 11:50	8°♊10'24	1°53'08	
max. Earth dist.	-8798 Aug 03 j 16:01	8°♊04'44	11.32456 AU	
morning rise	-8798 Aug 20 j 21:30	10°♊02'16		
retrograde	-8798 Nov 27 j 14:59	16°♊42'48		
opposition	-8797 Feb 06 j 03:19	13°♊28'03	2°27'05	
min. Earth dist.	-8797 Feb 06 j 21:25	13°♊24'47	9.31680 AU	
direct	-8797 Apr 19 j 05:02	10°♊09'30		
evening set	-8797 Jul 29 j 19:54	17°♊00'29		
max. Earth dist.	-8797 Aug 14 j 07:57	18°♊46'31	11.29785 AU	
conjunction	-8797 Aug 15 j 05:40	18°♊52'46	2°08'32	
minimum elong	-8797 Aug 15 j 05:37	18°♊52'45	2°09'05	
morning rise	-8797 Aug 31 j 13:25	20°♊44'36		
retrograde	-8797 Dec 08 j 22:59	27°♊29'13		
opposition	-8796 Feb 17 j 16:31	24°♊13'43	2°44'00	
min. Earth dist.	-8796 Feb 18 j 12:15	24°♊10'09	9.27475 AU	
direct	-8796 Apr 29 j 12:47	20°♊55'20		
evening set	-8796 Aug 08 j 16:40	27°♊47'30		
max. Earth dist.	-8796 Aug 24 j 01:16	29°♊33'20	11.24023 AU	
conjunction	-8796 Aug 25 j 00:39	29°♊40'06	2°20'01	
minimum elong	-8796 Aug 25 j 00:37	29°♊40'05	2°20'34	
	-8796 Aug 27 j 21:25	0°♋		
morning rise	-8796 Sep 10 j 07:24	1°♋32'28		
retrograde	-8796 Dec 19 j 12:34	8°♋23'06		
opposition	-8795 Feb 28 j 09:39	5°♋06'34	2°55'18	
min. Earth dist.	-8795 Mar 01 j 07:02	5°♋02'40	9.20241 AU	
direct	-8795 May 10 j 20:39	1°♋48'08		
evening set	-8795 Aug 19 j 15:35	8°♋43'02		
conjunction	-8795 Sep 04 j 22:35	10°♋36'30	2°26'33	
minimum elong	-8795 Sep 04 j 22:34	10°♋36'30	2°27'06	
max. Earth dist.	-8795 Sep 03 j 21:09	10°♋29'04	11.15357 AU	
morning rise	-8795 Sep 21 j 05:35	12°♋30'05		
retrograde	-8795 Dec 31 j 07:07	19°♋28'34		
opposition	-8794 Mar 12 j 07:51	16°♋10'42	3°00'25	
min. Earth dist.	-8794 Mar 13 j 06:31	16°♋06'32	9.10207 AU	
direct	-8794 May 22 j 06:54	12°♋52'00		
evening set	-8794 Aug 30 j 18:32	19°♋51'14		
max. Earth dist.	-8794 Sep 15 j 00:10	21°♋38'37	11.04060 AU	
conjunction	-8794 Sep 16 j 01:49	21°♋46'12	2°27'42	
minimum elong	-8794 Sep 16 j 01:49	21°♋46'13	2°28'14	
morning rise	-8794 Oct 02 j 10:09	23°♋41'34		
	-8794 Dec 11 j 09:25	0°♌		
retrograde	-8793 Jan 12 j 12:09	0°♌49'41		
	-8793 Feb 14 j 05:20	30°℞♋		
opposition	-8793 Mar 24 j 12:07	27°♋30'15	2°58'45	
min. Earth dist.	-8793 Mar 25 j 10:28	27°♋26'07	8.97689 AU	
direct	-8793 Jun 02 j 23:23	24°♋11'06		
	-8793 Aug 31 j 03:09	0°♌		
evening set	-8793 Sep 11 j 03:19	1°♌16'07		
conjunction	-8793 Sep 27 j 12:14	3°♌13'16	2°23'03	
minimum elong	-8793 Sep 27 j 12:16	3°♌13'17	2°23'33	
max. Earth dist.	-8793 Sep 26 j 12:01	3°♌05'59	10.90485 AU	
morning rise	-8793 Oct 13 j 22:57	5°♌11'05		
retrograde	-8792 Jan 25 j 02:49	12°♌30'24		
opposition	-8792 Apr 04 j 23:59	9°♌09'12	2°49'49	
min. Earth dist.	-8792 Apr 05 j 20:29	9°♌05'22	8.83092 AU	
direct	-8792 Jun 13 j 19:20	5°♌49'29		
evening set	-8792 Sep 21 j 19:57	13°♌01'43		
max. Earth dist.	-8792 Oct 07 j 08:53	14°♌54'41	10.75101 AU	
conjunction	-8792 Oct 08 j 07:33	15°♌01'36	2°12'17	
minimum elong	-8792 Oct 08 j 07:36	15°♌01'37	2°12'44	
	-8792 Oct 08 j 02:17	15°♌		
morning rise	-8792 Oct 24 j 21:53	17°♌02'29		
retrograde	-8791 Feb 06 j 04:43	24°♌34'24		
opposition	-8791 Apr 17 j 20:33	21°♌11'18	2°33'13	
min. Earth dist.	-8791 Apr 18 j 14:47	21°♌07'51	8.66961 AU	
direct	-8791 Jun 25 j 22:51	17°♌50'50		
evening set	-8791 Oct 03 j 22:33	25°♌11'36		

Attention, astronomical year style is used: The year -8791 in astronomical counting style is the year 8792 BCE in historical counting style.

conjunction	-8791 Oct 20 j 13:54	27°♌14'49	1°55'18
minimum elong	-8791 Oct 20 j 13:57	27°♌14'50	1°55'40
max. Earth dist.	-8791 Oct 19 j 17:14	27°♌08'24	10.58519 AU
morning rise	-8791 Nov 06 j 09:09	29°♌19'19	
	-8791 Nov 11 j 23:53	0°♍	
retrograde	-8790 Feb 19 j 19:05	7°♍04'48	
opposition	-8790 May 01 j 02:31	3°♍39'47	2°08'51
min. Earth dist.	-8790 May 01 j 18:09	3°♍36'46	8.49978 AU
direct	-8790 Jul 08 j 10:24	0°♍18'23	
evening set	-8790 Oct 16 j 12:48	7°♍48'52	
conjunction	-8790 Nov 02 j 08:59	9°♍55'50	1°32'13
minimum elong	-8790 Nov 02 j 09:03	9°♍55'52	1°32'29
max. Earth dist.	-8790 Nov 01 j 15:51	9°♍50'25	10.41459 AU
morning rise	-8790 Nov 19 j 10:00	12°♍04'23	
retrograde	-8789 Mar 05 j 19:52	20°♍03'56	
opposition	-8789 May 14 j 18:13	16°♍37'00	1°37'02
min. Earth dist.	-8789 May 15 j 06:21	16°♍34'38	8.32929 AU
direct	-8789 Jul 21 j 08:40	13°♍14'34	
evening set	-8789 Oct 29 j 16:26	20°♍55'39	
conjunction	-8789 Nov 15 j 18:12	23°♍06'39	1°03'35
minimum elong	-8789 Nov 15 j 18:15	23°♍06'40	1°03'43
max. Earth dist.	-8789 Nov 15 j 06:32	23°♍02'54	10.24746 AU
morning rise	-8789 Dec 03 j 01:20	25°♍19'26	
	-8788 Jan 12 j 20:12	0°♎	
retrograde	-8788 Mar 19 j 08:14	3°♎32'51	
opposition	-8788 May 27 j 19:30	0°♎04'08	0°58'38
min. Earth dist.	-8788 May 28 j 02:49	0°♎02'40	8.16712 AU
	-8788 May 28 j 16:15	30°℞♍	
direct	-8788 Aug 02 j 18:18	26°♍40'35	
	-8788 Oct 03 j 09:19	0°♎	
evening set	-8788 Nov 11 j 10:38	4°♎32'44	
conjunction	-8788 Nov 28 j 18:21	6°♎47'48	0°30'29
minimum elong	-8788 Nov 28 j 18:23	6°♎47'48	0°30'29
max. Earth dist.	-8788 Nov 28 j 13:11	6°♎46'07	10.09312 AU
morning rise	-8788 Dec 16 j 07:38	9°♎04'44	
retrograde	-8787 Apr 03 j 07:35	17°♎30'56	
opposition	-8787 Jun 11 j 05:45	14°♎00'37	0°15'19
min. Earth dist.	-8787 Jun 11 j 07:16	14°♎00'19	8.02290 AU
direct	-8787 Aug 16 j 14:06	10°♎35'54	
desc. node	-8787 Oct 17 j 05:22	13°♎58'34	
evening set	-8787 Nov 25 j 19:54	18°♎39'01	
conjunction	-8787 Dec 13 j 09:21	20°♎57'50	-0°05'31
minimum elong	-8787 Dec 13 j 09:20	20°♎57'50	0°05'40
behind sun begin	-8787 Dec 13 j 02:22	20°♎55'32	
behind sun end	-8787 Dec 13 j 16:18	21°♎00'07	
max. Earth dist.	-8787 Dec 13 j 10:58	20°♎58'20	9.96114 AU
morning rise	-8787 Dec 31 j 04:20	23°♎18'31	
	-8786 Mar 02 j 12:12	0°♏	
retrograde	-8786 Apr 18 j 15:50	1°♏55'16	
	-8786 Jun 05 j 16:02	30°℞♎	
opposition	-8786 Jun 25 j 23:30	28°♎23'43	-0°30'24
min. Earth dist.	-8786 Jun 25 j 19:16	28°♎24'35	7.90591 AU
direct	-8786 Aug 30 j 19:11	24°♎57'48	
	-8786 Nov 15 j 07:21	0°♏	
evening set	-8786 Dec 10 j 19:37	3°♏11'05	
conjunction	-8786 Dec 28 j 14:02	5°♏32'58	-0°41'56
minimum elong	-8786 Dec 28 j 14:00	5°♏32'57	0°42'13
max. Earth dist.	-8786 Dec 28 j 22:25	5°♏35'46	9.86032 AU
morning rise	-8785 Jan 15 j 13:41	7°♏56'36	
	-8785 Mar 21 j 15:02	15°♏	
retrograde	-8785 May 04 j 05:21	16°♏40'37	
	-8785 Jun 17 j 07:17	15°℞♏	
opposition	-8785 Jul 10 j 22:29	13°♏08'17	-1°15'18
min. Earth dist.	-8785 Jul 10 j 13:04	13°♏10'14	7.82421 AU
direct	-8785 Sep 14 j 10:34	9°♏41'10	
	-8785 Dec 02 j 03:22	15°♏	
evening set	-8785 Dec 26 j 07:26	18°♏02'55	
conjunction	-8784 Jan 13 j 05:46	20°♏26'55	-1°16'16
minimum elong	-8784 Jan 13 j 05:43	20°♏26'53	1°16'40
max. Earth dist.	-8784 Jan 13 j 20:22	20°♏31'50	9.79785 AU
morning rise	-8784 Jan 31 j 08:40	22°♏52'23	
	-8784 Apr 05 j 17:57	0°♐	
retrograde	-8784 May 18 j 19:26	1°♐39'32	
	-8784 Jul 01 j 06:06	30°℞♏	
min. Earth dist.	-8784 Jul 24 j 10:34	28°♏09'43	7.78344 AU
opposition	-8784 Jul 25 j 00:11	28°♏06'52	-1°55'48
direct	-8784 Sep 28 j 10:09	24°♏38'38	
	-8784 Dec 16 j 13:25	0°♐	
evening set	-8783 Jan 10 j 03:41	3°♐06'15	
conjunction	-8783 Jan 28 j 04:46	5°♐31'14	-1°45'46
minimum elong	-8783 Jan 28 j 04:42	5°♐31'13	1°46'15
max. Earth dist.	-8783 Jan 29 j 00:24	5°♐37'51	9.77778 AU
morning rise	-8783 Feb 15 j 09:22	7°♐57'19	
retrograde	-8783 Jun 03 j 06:29	16°♐42'58	
min. Earth dist.	-8783 Aug 08 j 09:03	13°♐13'58	7.78549 AU
opposition	-8783 Aug 09 j 01:26	13°♐10'31	-2°28'32
direct	-8783 Oct 13 j 14:42	9°♐41'22	
evening set	-8782 Jan 26 j 04:11	18°♐11'45	
conjunction	-8782 Feb 13 j 06:44	20°♐36'36	-2°08'04
minimum elong	-8782 Feb 13 j 06:41	20°♐36'34	2°08'36
max. Earth dist.	-8782 Feb 14 j 05:50	20°♐44'20	9.80039 AU
morning rise	-8782 Mar 03 j 11:30	23°♐02'03	
	-8782 May 06 j 06:18	0°♑	
retrograde	-8782 Jun 18 j 11:05	1°♑41'46	
	-8782 Aug 01 j 01:55	30°℞♐	
opposition	-8782 Aug 23 j 23:15	28°♐10'08	-2°50'53
min. Earth dist.	-8782 Aug 23 j 04:59	28°♐13'59	7.82922 AU
direct	-8782 Oct 28 j 20:50	24°♐40'22	
	-8781 Jan 16 j 16:49	0°♑	
evening set	-8781 Feb 11 j 03:44	3°♑10'04	
conjunction	-8781 Mar 01 j 06:40	5°♑33'45	-2°21'32
minimum elong	-8781 Mar 01 j 06:39	5°♑33'44	2°22'06
max. Earth dist.	-8781 Mar 02 j 08:04	5°♑42'11	9.86393 AU
morning rise	-8781 Mar 19 j 10:20	7°♑57'31	
retrograde	-8781 Jul 03 j 06:04	16°♑27'25	
opposition	-8781 Sep 07 j 15:22	12°♑57'02	-3°01'26
min. Earth dist.	-8781 Sep 06 j 19:46	13°♑01'09	7.91206 AU
direct	-8781 Nov 13 j 00:56	9°♑27'01	
evening set	-8780 Feb 26 j 21:20	17°♑52'24	
conjunction	-8780 Mar 15 j 23:47	20°♑14'02	-2°25'33
minimum elong	-8780 Mar 15 j 23:48	20°♑14'02	2°26'07
max. Earth dist.	-8780 Mar 17 j 02:12	20°♑22'42	9.96487 AU
morning rise	-8780 Apr 03 j 01:28	22°♑35'17	
	-8780 Jun 16 j 00:21	0°♒	
retrograde	-8780 Jul 16 j 14:19	0°♒52'14	
	-8780 Aug 16 j 08:54	30°℞♑	
opposition	-8780 Sep 20 j 23:27	27°♑23'27	-3°00'07
min. Earth dist.	-8780 Sep 20 j 03:21	27°♑27'37	8.02902 AU
direct	-8780 Nov 27 j 00:24	23°♑53'31	
	-8779 Feb 23 j 09:39	0°♒	
evening set	-8779 Mar 13 j 05:18	2°♒11'25	
conjunction	-8779 Mar 31 j 06:31	4°♒30'22	-2°20'27
minimum elong	-8779 Mar 31 j 06:34	4°♒30'22	2°20'58

Attention, astronomical year style is used: The year -8779 in astronomical counting style is the year 8780 BCE in historical counting style.

max. Earth dist.	-8779 Apr 01 j 08:27	4°♒38'44	10.09671 AU
morning rise	-8779 Apr 18 j 05:31	6°♒48'29	
retrograde	-8779 Jul 30 j 10:19	14°♒50'31	
opposition	-8779 Oct 04 j 21:56	11°♒23'35	-2°47'59
min. Earth dist.	-8779 Oct 04 j 02:31	11°♒27'34	8.17247 AU
direct	-8779 Dec 11 j 16:33	7°♒54'05	
	-8778 Mar 19 j 14:05	15°♒	
evening set	-8778 Mar 28 j 00:36	16°♒02'09	
conjunction	-8778 Apr 14 j 23:56	18°♒17'58	-2°07'19
minimum elong	-8778 Apr 14 j 23:59	18°♒17'59	2°07'45
max. Earth dist.	-8778 Apr 16 j 00:05	18°♒25'38	10.25079 AU
morning rise	-8778 May 02 j 19:45	20°♒32'38	
retrograde	-8778 Aug 12 j 17:23	28°♒19'08	
opposition	-8778 Oct 18 j 10:30	24°♒54'10	-2°26'52
min. Earth dist.	-8778 Oct 17 j 17:17	24°♒57'40	8.33344 AU
direct	-8778 Dec 25 j 23:36	21°♒25'25	
evening set	-8777 Apr 11 j 05:31	29°♒22'13	
	-8777 Apr 16 j 08:52	0°♓	
conjunction	-8777 Apr 29 j 02:17	1°♓34'42	-1°47'42
minimum elong	-8777 Apr 29 j 02:21	1°♓34'43	1°48'03
max. Earth dist.	-8777 Apr 29 j 23:04	1°♓41'10	10.41771 AU
morning rise	-8777 May 16 j 18:39	3°♓45'47	
retrograde	-8777 Aug 25 j 11:58	11°♓17'12	
opposition	-8777 Oct 31 j 12:52	7°♓54'15	-1°58'57
min. Earth dist.	-8777 Oct 30 j 22:56	7°♓57'01	8.50268 AU
direct	-8776 Jan 08 j 19:59	4°♓26'29	
evening set	-8776 Apr 23 j 20:07	12°♓11'33	
conjunction	-8776 May 11 j 13:44	14°♓20'40	-1°23'20
minimum elong	-8776 May 11 j 13:47	14°♓20'41	1°23'33
max. Earth dist.	-8776 May 12 j 05:35	14°♓25'30	10.58823 AU
morning rise	-8776 May 29 j 02:28	16°♓28'14	
retrograde	-8776 Sep 05 j 18:59	23°♓45'47	
opposition	-8776 Nov 12 j 05:30	20°♓24'46	-1°26'25
min. Earth dist.	-8776 Nov 11 j 19:21	20°♓26'45	8.67137 AU
direct	-8775 Jan 21 j 06:03	16°♓58'10	
evening set	-8775 May 06 j 20:54	24°♓31'50	
conjunction	-8775 May 24 j 10:56	26°♓37'40	-0°55'51
minimum elong	-8775 May 24 j 10:58	26°♓37'41	0°55'57
max. Earth dist.	-8775 May 24 j 21:09	26°♓40'44	10.75389 AU
morning rise	-8775 Jun 10 j 19:51	28°♓41'55	
	-8775 Jun 22 j 02:54	0°♈	
retrograde	-8775 Sep 17 j 15:23	5°♈47'25	
opposition	-8775 Nov 24 j 13:39	2°♈28'08	-0°51'15
min. Earth dist.	-8775 Nov 24 j 06:46	2°♈29'28	8.83161 AU
	-8775 Dec 30 j 13:04	30°♓	
direct	-8774 Feb 03 j 06:49	29°♓02'51	
	-8774 Mar 09 j 19:21	0°♈	
evening set	-8774 May 19 j 08:54	6°♈25'57	
conjunction	-8774 Jun 05 j 19:02	8°♈28'41	-0°26'48
minimum elong	-8774 Jun 05 j 19:03	8°♈28'41	0°26'46
max. Earth dist.	-8774 Jun 06 j 00:31	8°♈30'18	10.90740 AU
morning rise	-8774 Jun 22 j 23:51	10°♈29'52	
retrograde	-8774 Sep 29 j 06:28	17°♈25'29	
opposition	-8774 Dec 06 j 14:30	14°♈07'43	-0°15'10
min. Earth dist.	-8774 Dec 06 j 11:06	14°♈08'21	8.97675 AU
direct	-8773 Feb 15 j 21:04	10°♈43'46	
asc. node	-8773 May 14 j 19:07	16°♈07'02	
evening set	-8773 May 31 j 09:54	17°♈57'31	
conjunction	-8773 Jun 17 j 15:57	19°♈57'30	0°02'40
minimum elong	-8773 Jun 17 j 15:57	19°♈57'30	0°02'47
behind sun begin	-8773 Jun 17 j 08:54	19°♈55'27	
behind sun end	-8773 Jun 17 j 23:01	19°♈59'32	
max. Earth dist.	-8773 Jun 17 j 17:13	19°♈57'49	11.04276 AU
morning rise	-8773 Jul 04 j 16:35	21°♈55'57	
retrograde	-8773 Oct 10 j 14:12	28°♈43'51	
opposition	-8773 Dec 18 j 09:21	25°♈27'21	0°20'25
min. Earth dist.	-8773 Dec 18 j 10:20	25°♈27'10	9.10152 AU
direct	-8772 Feb 28 j 00:27	22°♈04'43	
evening set	-8772 Jun 11 j 01:42	29°♈10'38	
	-8772 Jun 18 j 06:57	0°♉	
conjunction	-8772 Jun 28 j 03:26	1°♉08'11	0°31'13
minimum elong	-8772 Jun 28 j 03:25	1°♉08'11	0°31'27
max. Earth dist.	-8772 Jun 27 j 23:36	1°♉07'05	11.15525 AU
morning rise	-8772 Jul 15 j 00:05	3°♉04'21	
retrograde	-8772 Oct 20 j 17:45	9°♉46'48	
opposition	-8772 Dec 28 j 23:55	6°♉31'18	0°54'22
min. Earth dist.	-8772 Dec 29 j 05:31	6°♉30'16	9.20165 AU
direct	-8771 Mar 10 j 23:02	3°♉09'52	
evening set	-8771 Jun 22 j 10:03	10°♉09'35	
conjunction	-8771 Jul 09 j 07:24	12°♉05'06	0°58'08
minimum elong	-8771 Jul 09 j 07:22	12°♉05'06	0°58'27
max. Earth dist.	-8771 Jul 08 j 22:10	12°♉02'27	11.24129 AU
morning rise	-8771 Jul 26 j 00:23	13°♉59'25	
	-8771 Aug 04 j 03:21	15°♉	
retrograde	-8771 Oct 31 j 18:55	20°♉38'39	
opposition	-8770 Jan 09 j 11:34	17°♉23'48	1°25'45
min. Earth dist.	-8770 Jan 09 j 20:33	17°♉22'10	9.27397 AU
	-8770 Feb 15 j 01:42	15°℞♉	
direct	-8770 Mar 22 j 14:56	14°♉03'29	
	-8770 Apr 26 j 16:51	15°♉	
evening set	-8770 Jul 03 j 12:40	20°♉58'37	
conjunction	-8770 Jul 20 j 06:06	22°♉52'34	1°22'38
minimum elong	-8770 Jul 20 j 06:03	22°♉52'33	1°23'02
max. Earth dist.	-8770 Jul 19 j 17:20	22°♉48'55	11.29829 AU
morning rise	-8770 Aug 05 j 19:40	24°♉45'30	
	-8770 Oct 01 j 02:42	0°♊	
retrograde	-8770 Nov 11 j 20:51	1°♊23'43	
	-8770 Dec 24 j 21:35	30°℞♉	
opposition	-8769 Jan 20 j 21:50	28°♉09'11	1°53'45
min. Earth dist.	-8769 Jan 21 j 09:35	28°♉07'02	9.31627 AU
direct	-8769 Apr 03 j 03:23	24°♉49'48	
	-8769 Jun 28 j 19:24	0°♊	
evening set	-8769 Jul 14 j 11:19	1°♊41'59	
max. Earth dist.	-8769 Jul 30 j 09:42	3°♊30'24	11.32449 AU
conjunction	-8769 Jul 31 j 01:17	3°♊34'52	1°44'03
minimum elong	-8769 Jul 31 j 01:14	3°♊34'51	1°44'31
morning rise	-8769 Aug 16 j 11:53	5°♊26'54	
retrograde	-8769 Nov 23 j 00:20	12°♊06'08	
opposition	-8768 Feb 01 j 08:18	8°♊51'36	2°17'40
min. Earth dist.	-8768 Feb 01 j 23:23	8°♊48'52	9.32718 AU
direct	-8768 Apr 13 j 11:09	5°♊32'58	
evening set	-8768 Jul 24 j 08:03	12°♊23'50	
conjunction	-8768 Aug 09 j 18:53	14°♊16'08	2°01'47
minimum elong	-8768 Aug 09 j 18:50	14°♊16'07	2°02'19
max. Earth dist.	-8768 Aug 08 j 23:31	14°♊10'35	11.31905 AU
morning rise	-8768 Aug 26 j 03:20	16°♊07'51	
retrograde	-8768 Dec 03 j 04:31	22°♊50'06	
opposition	-8767 Feb 11 j 20:21	19°♊35'13	2°36'53
min. Earth dist.	-8767 Feb 12 j 14:38	19°♊31'54	9.30637 AU
direct	-8767 Apr 24 j 17:45	16°♊17'02	
evening set	-8767 Aug 04 j 04:22	23°♊08'14	
conjunction	-8767 Aug 20 j 12:52	25°♊00'29	2°15'19

Attention, astronomical year style is used: The year -8767 in astronomical counting style is the year 8768 BCE in historical counting style.

minimum elong	-8767 Aug 20 j 12:50	25°♊00'28	2°15'53
max. Earth dist.	-8767 Aug 19 j 14:47	24°♊54'07	11.28226 AU
morning rise	-8767 Sep 05 j 20:02	26°♊52'26	
	-8767 Oct 05 j 11:43	0°♋	
retrograde	-8767 Dec 14 j 15:04	3°♋39'39	
opposition	-8766 Feb 23 j 11:26	0°♋24'02	2°50'45
min. Earth dist.	-8766 Feb 24 j 07:25	0°♋20'25	9.25437 AU
	-8766 Mar 01 j 00:20	30℞♊	
direct	-8766 May 06 j 02:55	27°♊06'06	
	-8766 Jul 07 j 05:49	0°♋	
evening set	-8766 Aug 15 j 01:49	3°♋59'06	
max. Earth dist.	-8766 Aug 30 j 10:18	5°♋45'17	11.21498 AU
conjunction	-8766 Aug 31 j 09:07	5°♋51'56	2°24'08
minimum elong	-8766 Aug 31 j 09:06	5°♋51'55	2°24'41
morning rise	-8766 Sep 16 j 15:49	7°♋44'42	
retrograde	-8766 Dec 26 j 07:29	14°♋38'45	
opposition	-8765 Mar 07 j 06:45	11°♋22'03	2°58'42
min. Earth dist.	-8765 Mar 08 j 03:14	11°♋18'19	9.17242 AU
direct	-8765 May 17 j 12:06	8°♋04'07	
evening set	-8765 Aug 26 j 02:32	15°♋00'28	
max. Earth dist.	-8765 Sep 10 j 09:45	16°♋47'27	11.11889 AU
conjunction	-8765 Sep 11 j 09:35	16°♋54'27	2°27'46
minimum elong	-8765 Sep 11 j 09:35	16°♋54'27	2°28'18
morning rise	-8765 Sep 27 j 16:54	18°♋48'39	
retrograde	-8764 Jan 07 j 08:42	25°♋51'14	
opposition	-8764 Mar 18 j 07:34	22°♋33'12	3°00'10
min. Earth dist.	-8764 Mar 19 j 04:49	22°♋29'17	9.06263 AU
direct	-8764 May 28 j 00:40	19°♋14'58	
evening set	-8764 Sep 05 j 08:10	26°♋16'11	
conjunction	-8764 Sep 21 j 15:58	28°♋11'58	2°25'48
minimum elong	-8764 Sep 21 j 15:59	28°♋11'58	2°26'19
max. Earth dist.	-8764 Sep 20 j 15:00	28°♋04'32	10.99664 AU
	-8764 Oct 06 j 20:58	0°♌	
morning rise	-8764 Oct 08 j 01:16	0°♌08'16	
retrograde	-8763 Jan 18 j 16:37	7°♌21'05	
opposition	-8763 Mar 30 j 15:26	4°♌01'25	2°54'36
min. Earth dist.	-8763 Mar 31 j 13:05	3°♌57'24	8.92804 AU
direct	-8763 Jun 08 j 17:10	0°♌42'38	
evening set	-8763 Sep 16 j 20:23	7°♌50'16	
max. Earth dist.	-8763 Oct 02 j 05:48	9°♌41'04	10.85173 AU
conjunction	-8763 Oct 03 j 06:17	9°♌48'28	2°17'53
minimum elong	-8763 Oct 03 j 06:20	9°♌48'29	2°18'22
morning rise	-8763 Oct 19 j 18:46	11°♌47'31	
	-8763 Nov 17 j 14:26	15°♌	
retrograde	-8762 Jan 31 j 11:34	19°♌12'13	
opposition	-8762 Apr 12 j 07:16	15°♌50'40	2°41'36
min. Earth dist.	-8762 Apr 13 j 03:56	15°♌46'47	8.77300 AU
	-8762 Apr 23 j 15:45	15℞♌	
direct	-8762 Jun 20 j 18:11	12°♌31'09	
	-8762 Aug 14 j 16:26	15°♌	
evening set	-8762 Sep 28 j 17:28	19°♌46'39	
max. Earth dist.	-8762 Oct 14 j 08:47	21°♌41'09	10.68936 AU
conjunction	-8762 Oct 15 j 06:49	21°♌47'56	2°03'49
minimum elong	-8762 Oct 15 j 06:53	21°♌47'57	2°04'13
morning rise	-8762 Oct 31 j 23:30	23°♌50'20	
	-8761 Jan 02 j 04:39	0°♍	
retrograde	-8761 Feb 13 j 19:31	1°♍28'09	
	-8761 Mar 29 j 10:40	30℞♌	
opposition	-8761 Apr 25 j 07:48	28°♌04'36	2°20'54
min. Earth dist.	-8761 Apr 26 j 01:40	28°♌01'12	8.60394 AU
direct	-8761 Jul 03 j 01:56	24°♌44'09	
	-8761 Sep 22 j 21:46	0°♍	
evening set	-8761 Oct 11 j 01:21	2°♍08'50	
conjunction	-8761 Oct 27 j 19:09	4°♍13'41	1°43'35
minimum elong	-8761 Oct 27 j 19:13	4°♍13'43	1°43'54
max. Earth dist.	-8761 Oct 27 j 00:10	4°♍07'45	10.51687 AU
morning rise	-8761 Nov 13 j 17:02	6°♍19'58	
retrograde	-8760 Feb 27 j 14:52	14°♍11'41	
opposition	-8760 May 07 j 18:05	10°♍46'03	1°52'37
min. Earth dist.	-8760 May 08 j 08:13	10°♍43'19	8.42891 AU
direct	-8760 Jul 14 j 17:43	7°♍24'28	
evening set	-8760 Oct 22 j 21:39	14°♍59'22	
conjunction	-8760 Nov 08 j 20:36	17°♍08'10	1°17'33
minimum elong	-8760 Nov 08 j 20:39	17°♍08'11	1°17'45
max. Earth dist.	-8760 Nov 08 j 05:17	17°♍03'18	10.34274 AU
morning rise	-8760 Nov 26 j 00:32	19°♍18'38	
retrograde	-8759 Mar 12 j 21:37	27°♍24'29	
opposition	-8759 May 21 j 14:12	23°♍56'47	1°17'18
min. Earth dist.	-8759 May 22 j 00:08	23°♍54'49	8.25698 AU
direct	-8759 Jul 27 j 20:46	20°♍33'56	
evening set	-8759 Nov 05 j 08:03	28°♍19'47	
	-8759 Nov 18 j 07:55	0°♎	
conjunction	-8759 Nov 22 j 12:43	0°♎32'41	0°46'30
minimum elong	-8759 Nov 22 j 12:45	0°♎32'42	0°46'34
max. Earth dist.	-8759 Nov 22 j 02:08	0°♎29'16	10.17622 AU
morning rise	-8759 Dec 09 j 23:02	2°♎47'27	
retrograde	-8758 Mar 27 j 15:26	11°♎06'46	
opposition	-8758 Jun 04 j 19:29	7°♎37'11	0°36'13
min. Earth dist.	-8758 Jun 05 j 01:06	7°♎36'03	8.09773 AU
direct	-8758 Aug 10 j 10:21	4°♎12'55	
evening set	-8758 Nov 19 j 09:17	12°♎10'02	
conjunction	-8758 Dec 06 j 19:48	14°♎26'55	0°11'49
minimum elong	-8758 Dec 06 j 19:49	14°♎26'55	0°11'44
behind sun begin	-8758 Dec 06 j 14:44	14°♎25'16	
behind sun end	-8758 Dec 07 j 00:54	14°♎28'35	
max. Earth dist.	-8758 Dec 06 j 15:27	14°♎25'30	10.02686 AU
morning rise	-8758 Dec 24 j 12:13	16°♎45'44	
desc. node	-8757 Apr 09 j 18:49	25°♎16'45	
retrograde	-8757 Apr 11 j 18:37	25°♎16'58	
opposition	-8757 Jun 19 j 09:05	21°♎45'47	-0°08'33
min. Earth dist.	-8757 Jun 19 j 09:40	21°♎45'40	7.96077 AU
direct	-8757 Aug 24 j 10:50	18°♎20'07	
evening set	-8757 Dec 04 j 01:10	26°♎28'07	
conjunction	-8757 Dec 21 j 17:10	28°♎48'30	-0°24'39
minimum elong	-8757 Dec 21 j 17:09	28°♎48'30	0°24'52
max. Earth dist.	-8757 Dec 21 j 19:57	28°♎49'26	9.90402 AU
	-8757 Dec 30 j 15:52	0°♏	
morning rise	-8756 Jan 08 j 14:46	1°♏10'46	
retrograde	-8756 Apr 26 j 04:21	9°♏51'20	
opposition	-8756 Jul 03 j 05:16	6°♏18'56	-0°54'10
min. Earth dist.	-8756 Jul 03 j 00:18	6°♏19'58	7.85509 AU
direct	-8756 Sep 06 j 22:28	2°♏51'55	
evening set	-8756 Dec 18 j 06:40	11°♏09'38	
conjunction	-8755 Jan 05 j 03:19	13°♏32'45	-1°00'16
minimum elong	-8755 Jan 05 j 03:15	13°♏32'43	1°00'37
max. Earth dist.	-8755 Jan 05 j 13:24	13°♏36'08	9.81620 AU
	-8755 Jan 15 j 23:24	15°♏	
morning rise	-8755 Jan 23 j 04:52	15°♏57'30	
retrograde	-8755 May 11 j 17:12	24°♏43'44	
opposition	-8755 Jul 18 j 05:33	21°♏10'38	-1°37'11
min. Earth dist.	-8755 Jul 17 j 19:15	21°♏12'47	7.78813 AU
direct	-8755 Sep 21 j 18:07	17°♏42'23	
evening set	-8754 Jan 02 j 23:02	26°♏07'43	

Attention, astronomical year style is used: The year -8754 in astronomical counting style is the year 8755 BCE in historical counting style.

conjunction	-8754 Jan 20 j 23:09	28°♏32'31	-1°32'23
minimum elong	-8754 Jan 20 j 23:05	28°♏32'30	1°32'50
max. Earth dist.	-8754 Jan 21 j 15:58	28°♏38'12	9.76977 AU
	-8754 Jan 31 j 18:58	0°♐	
morning rise	-8754 Feb 08 j 03:08	0°♐58'35	
retrograde	-8754 May 27 j 05:59	9°♐46'02	
opposition	-8754 Aug 02 j 07:16	6°♐12'49	-2°14'02
min. Earth dist.	-8754 Aug 01 j 16:17	6°♐15'59	7.76467 AU
direct	-8754 Oct 06 j 19:40	2°♐43'31	
evening set	-8753 Jan 18 j 22:06	11°♐13'32	
conjunction	-8753 Feb 06 j 00:18	13°♐38'49	-1°58'23
minimum elong	-8753 Feb 06 j 00:14	13°♐38'48	1°58'55
max. Earth dist.	-8753 Feb 06 j 22:36	13°♐46'20	9.76820 AU
morning rise	-8753 Feb 24 j 05:05	16°♐04'55	
retrograde	-8753 Jun 11 j 14:40	24°♐48'49	
opposition	-8753 Aug 17 j 07:16	21°♐16'05	-2°41'39
min. Earth dist.	-8753 Aug 16 j 12:56	21°♐19'58	7.78635 AU
direct	-8753 Oct 22 j 00:14	17°♐46'01	
evening set	-8752 Feb 03 j 22:50	26°♐17'07	
conjunction	-8752 Feb 22 j 01:54	28°♐41'44	-2°16'14
minimum elong	-8752 Feb 22 j 01:51	28°♐41'43	2°16'48
max. Earth dist.	-8752 Feb 23 j 03:57	28°♐50'26	9.81171 AU
	-8752 Mar 02 j 20:19	0°♑	
morning rise	-8752 Mar 11 j 06:10	1°♑06'39	
retrograde	-8752 Jun 25 j 15:52	9°♑42'30	
min. Earth dist.	-8752 Aug 30 j 06:31	6°♑15'03	7.85151 AU
opposition	-8752 Aug 31 j 02:38	6°♑10'48	-2°57'58
direct	-8752 Nov 05 j 04:40	2°♑40'18	
evening set	-8751 Feb 18 j 20:06	11°♑08'44	
conjunction	-8751 Mar 08 j 23:01	13°♑31'40	-2°24'49
minimum elong	-8751 Mar 08 j 23:01	13°♑31'40	2°25'23
max. Earth dist.	-8751 Mar 10 j 02:46	13°♑40'51	9.89695 AU
morning rise	-8751 Mar 27 j 01:45	15°♑54'25	
retrograde	-8751 Jul 10 j 07:04	24°♑18'30	
opposition	-8751 Sep 14 j 14:59	20°♑48'20	-3°02'15
min. Earth dist.	-8751 Sep 13 j 18:29	20°♑52'38	7.95512 AU
direct	-8751 Nov 20 j 07:09	17°♑17'48	
evening set	-8750 Mar 06 j 09:23	25°♑40'08	
conjunction	-8750 Mar 24 j 11:17	28°♑00'36	-2°23'59
minimum elong	-8750 Mar 24 j 11:18	28°♑00'36	2°24'31
max. Earth dist.	-8750 Mar 25 j 14:43	28°♑09'32	10.01754 AU
	-8750 Apr 08 j 19:44	0°♒	
morning rise	-8750 Apr 11 j 11:40	0°♒20'27	
retrograde	-8750 Jul 24 j 08:55	8°♒30'15	
opposition	-8750 Sep 28 j 18:23	5°♒01'59	-2°55'05
min. Earth dist.	-8750 Sep 27 j 22:37	5°♒06'05	8.08985 AU
direct	-8750 Dec 05 j 04:05	1°♒31'51	
evening set	-8749 Mar 21 j 11:05	9°♒45'18	
conjunction	-8749 Apr 08 j 11:18	12°♒02'46	-2°14'29
minimum elong	-8749 Apr 08 j 11:21	12°♒02'47	2°14'58
max. Earth dist.	-8749 Apr 09 j 12:44	12°♒10'54	10.16526 AU
morning rise	-8749 Apr 26 j 08:52	14°♒19'16	
	-8749 May 01 j 19:59	15°♒	
retrograde	-8749 Aug 06 j 20:59	22°♒13'36	
opposition	-8749 Oct 12 j 11:54	18°♒47'28	-2°37'56
min. Earth dist.	-8749 Oct 11 j 17:22	18°♒51'15	8.24696 AU
direct	-8749 Dec 19 j 16:27	15°♒18'07	
evening set	-8748 Apr 03 j 23:05	23°♒20'48	
conjunction	-8748 Apr 21 j 21:07	25°♒34'59	-1°57'43
minimum elong	-8748 Apr 21 j 21:11	25°♒35'01	1°58'06
max. Earth dist.	-8748 Apr 22 j 19:34	25°♒42'02	10.33075 AU
morning rise	-8748 May 09 j 15:27	27°♒47'55	
	-8748 May 28 j 03:48	0°♓	
retrograde	-8748 Aug 18 j 21:14	5°♓26'49	
opposition	-8748 Oct 24 j 19:12	2°♓02'51	-2°12'54
min. Earth dist.	-8748 Oct 24 j 02:33	2°♓06'11	8.41695 AU
	-8748 Nov 21 j 04:14	30°℞♒	
direct	-8747 Jan 01 j 18:16	28°♒34'37	
	-8747 Feb 12 j 01:26	0°♓	
evening set	-8747 Apr 17 j 20:55	6°♓25'39	
conjunction	-8747 May 05 j 16:13	8°♓36'27	-1°35'21
minimum elong	-8747 May 05 j 16:17	8°♓36'28	1°35'37
max. Earth dist.	-8747 May 06 j 11:12	8°♓42'18	10.50434 AU
morning rise	-8747 May 23 j 06:52	10°♓45'46	
retrograde	-8747 Aug 31 j 11:34	18°♓10'05	
opposition	-8747 Nov 06 j 16:40	14°♓48'17	-1°42'13
min. Earth dist.	-8747 Nov 06 j 03:00	14°♓50'59	8.59060 AU
direct	-8746 Jan 15 j 08:29	11°♓21'21	
evening set	-8746 May 01 j 04:41	19°♓00'42	
conjunction	-8746 May 18 j 20:40	21°♓08'08	-1°09'05
minimum elong	-8746 May 18 j 20:43	21°♓08'09	1°09'14
max. Earth dist.	-8746 May 19 j 11:29	21°♓12'37	10.67704 AU
morning rise	-8746 Jun 05 j 07:23	23°♓13'59	
	-8746 Aug 21 j 18:19	0°♈	
retrograde	-8746 Sep 12 j 13:56	0°♈25'17	
	-8746 Oct 04 j 12:56	30°℞♓	
opposition	-8746 Nov 19 j 05:21	27°♓05'30	-1°07'59
min. Earth dist.	-8746 Nov 18 j 19:49	27°♓07'21	8.75947 AU
direct	-8745 Jan 28 j 13:27	23°♓39'58	
	-8745 May 04 j 01:20	0°♈	
evening set	-8745 May 13 j 23:06	1°♈08'11	
conjunction	-8745 May 31 j 11:15	3°♈12'24	-0°40'32
minimum elong	-8745 May 31 j 11:17	3°♈12'24	0°40'34
max. Earth dist.	-8745 May 31 j 20:44	3°♈15'13	10.84073 AU
morning rise	-8745 Jun 17 j 17:58	5°♈15'01	
retrograde	-8745 Sep 24 j 07:51	12°♈15'16	
opposition	-8745 Dec 01 j 10:01	8°♈57'14	-0°32'05
min. Earth dist.	-8745 Dec 01 j 05:02	8°♈58'11	8.91597 AU
direct	-8744 Feb 10 j 08:25	5°♈33'06	
evening set	-8744 May 25 j 05:52	12°♈51'17	
conjunction	-8744 Jun 11 j 13:48	14°♈52'31	-0°11'08
minimum elong	-8744 Jun 11 j 13:49	14°♈52'31	0°11'03
behind sun begin	-8744 Jun 11 j 08:30	14°♈50'59	
behind sun end	-8744 Jun 11 j 19:08	14°♈54'04	
max. Earth dist.	-8744 Jun 11 j 16:57	14°♈53'26	10.98832 AU
morning rise	-8744 Jun 28 j 16:32	16°♈52'14	
retrograde	-8744 Oct 04 j 17:44	23°♈43'35	
asc. node	-8744 Nov 01 j 04:17	23°♈06'09	
opposition	-8744 Dec 12 j 07:51	20°♈27'00	0°03'56
min. Earth dist.	-8744 Dec 12 j 06:56	20°♈27'10	9.05336 AU
direct	-8743 Feb 21 j 18:09	17°♈04'12	
evening set	-8743 Jun 06 j 02:24	24°♈13'45	
conjunction	-8743 Jun 23 j 06:06	26°♈12'22	0°18'02
minimum elong	-8743 Jun 23 j 06:05	26°♈12'22	0°18'14
max. Earth dist.	-8743 Jun 23 j 03:59	26°♈11'46	11.11366 AU
morning rise	-8743 Jul 10 j 04:44	28°♈09'34	
	-8743 Jul 26 j 22:11	0°♉	
retrograde	-8743 Oct 16 j 00:21	4°♉54'22	
opposition	-8743 Dec 24 j 00:40	1°♉38'52	0°38'49
min. Earth dist.	-8743 Dec 24 j 03:33	1°♉38'20	9.16604 AU
	-8742 Jan 16 j 06:17	30°℞♈	
direct	-8742 Mar 05 j 21:00	28°♈17'21	
	-8742 Apr 22 j 10:06	0°♉	

Attention, astronomical year style is used: The year -8742 in astronomical counting style is the year 8743 BCE in historical counting style.

evening set	-8742 Jun 17 j 14:23	5°♉19'51		
conjunction	-8742 Jul 04 j 13:54	7°♉16'16	0°45'52	
minimum elong	-8742 Jul 04 j 13:52	7°♉16'16	0°46'08	
max. Earth dist.	-8742 Jul 04 j 07:30	7°♉14'26	11.21196 AU	
morning rise	-8742 Jul 21 j 08:29	9°♉11'22		
	-8742 Sep 24 j 17:03	15°♉		
retrograde	-8742 Oct 27 j 04:04	15°♉51'57		
	-8742 Nov 29 j 05:15	15°℞♉		
opposition	-8741 Jan 04 j 13:59	12°♉37'14	1°11'31	
min. Earth dist.	-8741 Jan 04 j 21:24	12°♉35'52	9.25020 AU	
direct	-8741 Mar 17 j 14:50	9°♉16'50		
	-8741 Jun 17 j 14:27	15°♉		
evening set	-8741 Jun 28 j 20:02	16°♉14'00		
conjunction	-8741 Jul 15 j 15:22	18°♉08'39	1°11'36	
minimum elong	-8741 Jul 15 j 15:20	18°♉08'38	1°11'57	
max. Earth dist.	-8741 Jul 15 j 03:56	18°♉05'23	11.28048 AU	
morning rise	-8741 Aug 01 j 06:24	20°♉02'10		
retrograde	-8741 Nov 07 j 04:50	26°♉40'42		
opposition	-8740 Jan 16 j 01:03	23°♉26'24	1°41'12	
min. Earth dist.	-8740 Jan 16 j 12:59	23°♉24'14	9.30389 AU	
direct	-8740 Mar 28 j 04:37	20°♉06'51		
evening set	-8740 Jul 08 j 20:58	27°♉00'25		
conjunction	-8740 Jul 25 j 12:24	28°♉53'46	1°34'32	
minimum elong	-8740 Jul 25 j 12:21	28°♉53'45	1°34'58	
max. Earth dist.	-8740 Jul 24 j 20:10	28°♉49'07	11.31790 AU	
	-8740 Aug 04 j 04:38	0°♊		
morning rise	-8740 Aug 11 j 00:25	0°♊46'11		
retrograde	-8740 Nov 17 j 06:22	7°♊24'49		
opposition	-8739 Jan 26 j 11:36	4°♊10'30	2°07'07	
min. Earth dist.	-8739 Jan 27 j 02:45	4°♊07'45	9.32597 AU	
direct	-8739 Apr 08 j 15:44	0°♊51'36		
evening set	-8739 Jul 19 j 18:39	7°♊43'07		
max. Earth dist.	-8739 Aug 04 j 11:56	9°♊30'15	11.32351 AU	
conjunction	-8739 Aug 05 j 06:51	9°♊35'40	1°54'03	
minimum elong	-8739 Aug 05 j 06:48	9°♊35'39	1°54'33	
morning rise	-8739 Aug 21 j 16:17	11°♊27'31		
retrograde	-8739 Nov 28 j 10:48	18°♊08'17		
opposition	-8738 Feb 06 j 23:00	14°♊53'34	2°28'37	
min. Earth dist.	-8738 Feb 07 j 16:10	14°♊50'28	9.31603 AU	
direct	-8738 Apr 20 j 00:33	11°♊35'06		
evening set	-8738 Jul 30 j 15:03	18°♊26'10		
max. Earth dist.	-8738 Aug 15 j 03:41	20°♊12'24	11.29733 AU	
conjunction	-8738 Aug 16 j 00:43	20°♊18'26	2°09'36	
minimum elong	-8738 Aug 16 j 00:41	20°♊18'26	2°10'09	
morning rise	-8738 Sep 01 j 08:18	22°♊10'15		
retrograde	-8738 Dec 09 j 19:33	28°♊55'05		
opposition	-8737 Feb 18 j 12:33	25°♊39'39	2°45'03	
min. Earth dist.	-8737 Feb 19 j 08:07	25°♊36'06	9.27457 AU	
direct	-8737 May 01 j 07:42	22°♊21'21		
evening set	-8737 Aug 10 j 11:52	29°♊13'31		
	-8737 Aug 17 j 06:43	0°♋		
conjunction	-8737 Aug 26 j 19:40	1°♋06'06	2°20'40	
minimum elong	-8737 Aug 26 j 19:39	1°♋06'06	2°21'14	
max. Earth dist.	-8737 Aug 25 j 19:56	0°♋59'14	11.24035 AU	
morning rise	-8737 Sep 12 j 02:30	2°♋58'30		
retrograde	-8737 Dec 21 j 07:06	9°♋49'17		
opposition	-8736 Mar 01 j 05:45	6°♋32'47	2°55'51	
min. Earth dist.	-8736 Mar 02 j 03:29	6°♋28'49	9.20286 AU	
direct	-8736 May 11 j 15:40	3°♋14'25		
evening set	-8736 Aug 20 j 10:46	10°♋09'19		

conjunction	-8736 Sep 05 j 17:43	12°♋02'46	2°26'47	
minimum elong	-8736 Sep 05 j 17:42	12°♋02'46	2°27'20	
max. Earth dist.	-8736 Sep 04 j 16:36	11°♋55'25	11.15431 AU	
morning rise	-8736 Sep 22 j 00:47	13°♋56'20		
retrograde	-8735 Jan 01 j 03:30	20°♋54'57		
opposition	-8735 Mar 13 j 03:51	17°♋37'05	3°00'25	
min. Earth dist.	-8735 Mar 14 j 02:05	17°♋33'00	9.10309 AU	
direct	-8735 May 23 j 04:09	14°♋18'27		
evening set	-8735 Aug 31 j 13:36	21°♋17'33		
conjunction	-8735 Sep 16 j 21:01	23°♋12'32	2°27'29	
minimum elong	-8735 Sep 16 j 21:01	23°♋12'32	2°28'01	
max. Earth dist.	-8735 Sep 15 j 20:28	23°♋05'16	11.04187 AU	
morning rise	-8735 Oct 03 j 05:18	25°♋07'54		
	-8735 Nov 20 j 07:12	0°♌		
retrograde	-8734 Jan 13 j 07:57	2°♌16'04		
	-8734 Mar 10 j 19:15	30°℞♋		
opposition	-8734 Mar 25 j 08:10	28°♋56'36	2°58'12	
min. Earth dist.	-8734 Mar 26 j 05:29	28°♋52'40	8.97844 AU	
direct	-8734 Jun 03 j 18:23	25°♋37'33		
	-8734 Aug 18 j 15:57	0°♌		
evening set	-8734 Sep 11 j 22:18	2°♌42'21		
max. Earth dist.	-8734 Sep 27 j 07:31	4°♌32'20	10.90667 AU	
conjunction	-8734 Sep 28 j 07:18	4°♌39'29	2°22'23	
minimum elong	-8734 Sep 28 j 07:20	4°♌39'29	2°22'52	
morning rise	-8734 Oct 14 j 18:05	6°♌37'17		
retrograde	-8733 Jan 25 j 23:01	13°♌56'35		
opposition	-8733 Apr 06 j 19:57	10°♌35'21	2°48'43	
min. Earth dist.	-8733 Apr 07 j 15:59	10°♌31'36	8.83301 AU	
direct	-8733 Jun 15 j 15:02	7°♌15'40		
evening set	-8733 Sep 23 j 14:57	14°♌27'37		
	-8733 Sep 28 j 02:48	15°♌		
max. Earth dist.	-8733 Oct 09 j 03:23	16°♌20'26	10.75341 AU	
conjunction	-8733 Oct 10 j 02:33	16°♌27'30	2°11'12	
minimum elong	-8733 Oct 10 j 02:36	16°♌27'31	2°11'38	
morning rise	-8733 Oct 26 j 17:08	18°♌28'23		
retrograde	-8732 Feb 08 j 00:41	26°♌00'07		
opposition	-8732 Apr 18 j 16:12	22°♌37'01	2°31'37	
min. Earth dist.	-8732 Apr 19 j 10:49	22°♌33'29	8.67221 AU	
direct	-8732 Jun 26 j 17:48	19°♌16'33		
evening set	-8732 Oct 04 j 17:18	26°♌37'00		
conjunction	-8732 Oct 21 j 08:44	28°♌40'11	1°53'49	
minimum elong	-8732 Oct 21 j 08:48	28°♌40'12	1°54'11	
max. Earth dist.	-8732 Oct 20 j 12:07	28°♌33'47	10.58806 AU	
	-8732 Nov 01 j 02:20	0°♍		
morning rise	-8732 Nov 07 j 04:13	0°♍44'41		
retrograde	-8731 Feb 20 j 12:38	8°♍29'56		
opposition	-8731 May 01 j 21:51	5°♍04'52	2°06'49	
min. Earth dist.	-8731 May 02 j 13:46	5°♍01'48	8.50277 AU	
direct	-8731 Jul 09 j 05:46	1°♍43'28		
evening set	-8731 Oct 17 j 07:13	9°♍13'34		
max. Earth dist.	-8731 Nov 02 j 11:21	11°♍15'23	10.41773 AU	
conjunction	-8731 Nov 03 j 03:38	11°♍20'32	1°30'26	
minimum elong	-8731 Nov 03 j 03:42	11°♍20'33	1°30'41	
morning rise	-8731 Nov 20 j 04:45	13°♍29'02		
retrograde	-8730 Mar 06 j 13:23	21°♍28'19		
opposition	-8730 May 15 j 13:08	18°♍01'19	1°34'39	
min. Earth dist.	-8730 May 16 j 00:55	17°♍59'00	8.33250 AU	
direct	-8730 Jul 22 j 04:59	14°♍38'52		
evening set	-8730 Oct 30 j 10:40	22°♍19'32		
conjunction	-8730 Nov 16 j 12:42	24°♍30'32	1°01'35	
minimum elong	-8730 Nov 16 j 12:45	24°♍30'33	1°01'42	

Attention, astronomical year style is used: The year -8730 in astronomical counting style is the year 8731 BCE in historical counting style.

max. Earth dist.	-8730 Nov 16 j 01:45	24°♍27'01	10.25066 AU
morning rise	-8730 Dec 03 j 19:54	26°♍43'17	
	-8730 Dec 31 j 07:00	0°♎	
retrograde	-8729 Mar 21 j 02:49	4°♎56'22	
opposition	-8729 May 29 j 13:51	1°♎27'34	0°56'02
min. Earth dist.	-8729 May 29 j 20:29	1°♎26'14	8.17027 AU
	-8729 Jun 17 j 12:04	30°℞♍	
direct	-8729 Aug 04 j 12:32	28°♍03'59	
	-8729 Sep 19 j 18:01	0°♎	
evening set	-8729 Nov 13 j 04:45	5°♎55'45	
conjunction	-8729 Nov 30 j 12:35	8°♎10'47	0°28'22
minimum elong	-8729 Nov 30 j 12:36	8°♎10'47	0°28'21
max. Earth dist.	-8729 Nov 30 j 07:17	8°♎09'03	10.09612 AU
morning rise	-8729 Dec 18 j 01:57	10°♎27'41	
retrograde	-8728 Apr 04 j 02:48	18°♎53'31	
opposition	-8728 Jun 11 j 23:42	15°♎23'09	0°12'40
min. Earth dist.	-8728 Jun 12 j 00:53	15°♎22'54	8.02570 AU
direct	-8728 Aug 17 j 06:46	11°♎58'23	
desc. node	-8728 Sep 25 j 18:37	13°♎25'24	
evening set	-8728 Nov 26 j 13:45	20°♎01'12	
conjunction	-8728 Dec 14 j 03:11	22°♎19'57	-0°07'36
minimum elong	-8728 Dec 14 j 03:10	22°♎19'56	0°07'46
behind sun begin	-8728 Dec 13 j 20:37	22°♎17'48	
behind sun end	-8728 Dec 14 j 09:42	22°♎22'05	
max. Earth dist.	-8728 Dec 14 j 04:03	22°♎20'13	9.96372 AU
morning rise	-8728 Dec 31 j 22:17	24°♎40'36	
	-8727 Feb 15 j 16:21	0°♏	
retrograde	-8727 Apr 19 j 10:45	3°♏17'01	
	-8727 Jun 23 j 18:14	30°℞♎	
opposition	-8727 Jun 26 j 17:08	29°♎45'26	-0°32'58
min. Earth dist.	-8727 Jun 26 j 13:12	29°♎46'15	7.90821 AU
direct	-8727 Aug 31 j 12:44	26°♎19'27	
	-8727 Nov 03 j 18:25	0°♏	
evening set	-8727 Dec 11 j 13:19	4°♏32'33	
conjunction	-8727 Dec 29 j 07:42	6°♏54'22	-0°43'54
minimum elong	-8727 Dec 29 j 07:40	6°♏54'22	0°44'11
max. Earth dist.	-8727 Dec 29 j 15:02	6°♏56'49	9.86240 AU
morning rise	-8726 Jan 16 j 07:31	9°♏17'58	
	-8726 Mar 06 j 08:22	15°♏	
retrograde	-8726 May 04 j 22:56	18°♏01'43	
	-8726 Jul 05 j 12:04	15°℞♏	
opposition	-8726 Jul 11 j 15:50	14°♏29'22	-1°17'37
min. Earth dist.	-8726 Jul 11 j 07:11	14°♏31'10	7.82601 AU
direct	-8726 Sep 15 j 04:45	11°♏02'11	
	-8726 Nov 20 j 22:56	15°♏	
evening set	-8726 Dec 27 j 01:06	19°♏23'52	
conjunction	-8725 Jan 13 j 23:26	21°♏47'49	-1°17'59
minimum elong	-8725 Jan 13 j 23:22	21°♏47'48	1°18'23
max. Earth dist.	-8725 Jan 14 j 13:04	21°♏52'25	9.79946 AU
morning rise	-8725 Feb 01 j 02:27	24°♏13'15	
	-8725 Mar 22 j 14:00	0°♐	
retrograde	-8725 May 20 j 12:00	3°♐00'11	
	-8725 Jul 20 j 06:01	30°℞♏	
opposition	-8725 Jul 26 j 17:21	29°♏27'33	-1°57'43
min. Earth dist.	-8725 Jul 26 j 04:30	29°♏30'15	7.78493 AU
direct	-8725 Sep 30 j 04:11	25°♏59'18	
	-8725 Dec 06 j 10:23	0°♐	
evening set	-8724 Jan 11 j 21:18	4°♐26'54	
conjunction	-8724 Jan 29 j 22:22	6°♐51'51	-1°47'07
minimum elong	-8724 Jan 29 j 22:18	6°♐51'49	1°47'36
max. Earth dist.	-8724 Jan 30 j 17:35	6°♐58'19	9.77932 AU
morning rise	-8724 Feb 17 j 02:58	9°♐17'52	
retrograde	-8724 Jun 03 j 22:28	18°♐03'20	
opposition	-8724 Aug 09 j 18:26	14°♐30'55	-2°29'55
min. Earth dist.	-8724 Aug 09 j 02:14	14°♐34'20	7.78731 AU
direct	-8724 Oct 14 j 08:22	11°♐01'45	
evening set	-8723 Jan 26 j 21:39	19°♐32'02	
conjunction	-8723 Feb 14 j 00:15	21°♐56'50	-2°08'57
minimum elong	-8723 Feb 14 j 00:11	21°♐56'49	2°09'29
max. Earth dist.	-8723 Feb 14 j 23:32	22°♐04'39	9.80251 AU
morning rise	-8723 Mar 04 j 04:57	24°♐22'14	
	-8723 Apr 21 j 09:51	0°♑	
retrograde	-8723 Jun 19 j 02:56	3°♑01'41	
	-8723 Aug 18 j 17:15	30°℞♐	
opposition	-8723 Aug 24 j 16:01	29°♐30'03	-2°51'39
min. Earth dist.	-8723 Aug 23 j 21:28	29°♐33'57	7.83157 AU
direct	-8723 Oct 29 j 13:49	26°♐00'16	
	-8722 Jan 05 j 12:08	0°♑	
evening set	-8722 Feb 11 j 21:03	4°♑29'49	
conjunction	-8722 Mar 02 j 00:05	6°♑53'27	-2°21'55
minimum elong	-8722 Mar 02 j 00:03	6°♑53'27	2°22'29
max. Earth dist.	-8722 Mar 03 j 01:46	7°♑02'00	9.86624 AU
morning rise	-8722 Mar 20 j 03:38	9°♑17'10	
retrograde	-8722 Jul 03 j 22:52	17°♑46'47	
opposition	-8722 Sep 08 j 07:53	14°♑16'26	-3°01'34
min. Earth dist.	-8722 Sep 07 j 12:00	14°♑20'36	7.91407 AU
direct	-8722 Nov 13 j 17:43	10°♑46'25	
evening set	-8721 Feb 27 j 14:34	19°♑11'44	
conjunction	-8721 Mar 17 j 17:05	21°♑33'21	-2°25'25
minimum elong	-8721 Mar 17 j 17:05	21°♑33'21	2°25'58
max. Earth dist.	-8721 Mar 18 j 19:49	21°♑42'08	9.96640 AU
morning rise	-8721 Apr 04 j 18:35	23°♑54'34	
	-8721 May 29 j 20:49	0°♒	
retrograde	-8721 Jul 18 j 07:31	2°♒11'22	
	-8721 Sep 06 j 18:21	30°℞♑	
opposition	-8721 Sep 22 j 15:55	28°♑42'38	-2°59'38
min. Earth dist.	-8721 Sep 21 j 19:49	28°♑46'48	8.02995 AU
direct	-8721 Nov 28 j 17:04	25°♑12'43	
	-8720 Feb 13 j 13:50	0°♒	
evening set	-8720 Mar 13 j 22:26	3°♒30'41	
conjunction	-8720 Mar 31 j 23:41	5°♒49'38	-2°19'49
minimum elong	-8720 Mar 31 j 23:44	5°♒49'39	2°20'19
max. Earth dist.	-8720 Apr 02 j 01:50	5°♒58'05	10.09701 AU
morning rise	-8720 Apr 18 j 22:33	8°♒07'45	
	-8720 Jun 25 j 11:29	15°♒	
retrograde	-8720 Jul 31 j 03:20	16°♒09'47	
	-8720 Sep 05 j 03:11	15°℞♒	
opposition	-8720 Oct 05 j 14:32	12°♒42'55	-2°46'55
min. Earth dist.	-8720 Oct 04 j 19:45	12°♒46'47	8.17211 AU
direct	-8720 Dec 12 j 08:54	9°♒13'27	
	-8719 Mar 09 j 02:08	15°♒	
evening set	-8719 Mar 28 j 17:48	17°♒21'41	
conjunction	-8719 Apr 15 j 17:06	19°♒37'33	-2°06'14
minimum elong	-8719 Apr 15 j 17:10	19°♒37'34	2°06'40
max. Earth dist.	-8719 Apr 16 j 16:51	19°♒45'05	10.24978 AU
morning rise	-8719 May 03 j 12:55	21°♒52'15	
retrograde	-8719 Aug 13 j 10:47	29°♒38'50	
min. Earth dist.	-8719 Oct 18 j 11:05	26°♒17'15	8.33181 AU
opposition	-8719 Oct 19 j 03:18	26°♒13'59	-2°25'17
direct	-8719 Dec 26 j 15:46	22°♒45'15	
	-8718 Apr 06 j 02:57	0°♓	
evening set	-8718 Apr 11 j 23:02	0°♓42'20	
conjunction	-8718 Apr 29 j 19:42	2°♓54'53	-1°46'14

Attention, astronomical year style is used: The year -8718 in astronomical counting style is the year 8719 BCE in historical counting style.

minimum elong	-8718 Apr 29 j 19:45	2°♓54'54	1°46'33
max. Earth dist.	-8718 Apr 30 j 15:17	3°♓00'58	10.41546 AU
morning rise	-8718 May 17 j 12:07	5°♓06'01	
retrograde	-8718 Aug 26 j 05:28	12°♓37'36	
opposition	-8718 Nov 01 j 05:58	9°♓14'45	-1°56'55
min. Earth dist.	-8718 Oct 31 j 16:35	9°♓17'24	8.49991 AU
direct	-8717 Jan 09 j 12:56	5°♓47'01	
evening set	-8717 Apr 25 j 13:49	13°♓32'26	
conjunction	-8717 May 13 j 07:21	15°♓41'37	-1°21'32
minimum elong	-8717 May 13 j 07:25	15°♓41'38	1°21'45
max. Earth dist.	-8717 May 13 j 22:10	15°♓46'08	10.58496 AU
morning rise	-8717 May 30 j 20:10	17°♓49'16	
retrograde	-8717 Sep 07 j 11:26	25°♓07'05	
opposition	-8717 Nov 13 j 22:57	21°♓46'07	-1°24'03
min. Earth dist.	-8717 Nov 13 j 12:29	21°♓48'10	8.66768 AU
direct	-8716 Jan 23 j 00:54	18°♓19'33	
evening set	-8716 May 07 j 14:43	25°♓53'35	
conjunction	-8716 May 25 j 04:48	27°♓59'29	-0°53'50
minimum elong	-8716 May 25 j 04:50	27°♓59'30	0°53'55
max. Earth dist.	-8716 May 25 j 15:02	28°♓02'33	10.74985 AU
morning rise	-8716 Jun 11 j 13:40	0°♈03'48	
	-8716 Jun 11 j 00:45	0°♈	
retrograde	-8716 Sep 18 j 10:25	7°♈09'39	
opposition	-8716 Nov 25 j 07:26	3°♈50'23	-0°48'40
min. Earth dist.	-8716 Nov 25 j 00:12	3°♈51'47	8.82716 AU
direct	-8715 Feb 04 j 00:29	0°♈25'08	
evening set	-8715 May 20 j 03:04	7°♈48'35	
conjunction	-8715 Jun 06 j 13:15	9°♈51'25	-0°24'38
minimum elong	-8715 Jun 06 j 13:16	9°♈51'25	0°24'35
max. Earth dist.	-8715 Jun 06 j 19:22	9°♈53'13	10.90268 AU
morning rise	-8715 Jun 23 j 17:54	11°♈52'39	
retrograde	-8715 Sep 30 j 01:01	18°♈48'35	
opposition	-8715 Dec 07 j 08:42	15°♈30'51	-0°12'29
min. Earth dist.	-8715 Dec 07 j 05:45	15°♈31'24	8.97176 AU
direct	-8714 Feb 16 j 13:26	12°♈06'55	
asc. node	-8714 Apr 16 j 17:17	14°♈44'23	
evening set	-8714 Jun 01 j 04:26	19°♈21'01	
conjunction	-8714 Jun 18 j 10:21	21°♈21'03	0°04'53
minimum elong	-8714 Jun 18 j 10:21	21°♈21'03	0°05'02
behind sun begin	-8714 Jun 18 j 03:28	21°♈19'04	
behind sun end	-8714 Jun 18 j 17:13	21°♈23'02	
max. Earth dist.	-8714 Jun 18 j 11:22	21°♈21'20	11.03757 AU
morning rise	-8714 Jul 05 j 10:52	23°♈19'36	
	-8714 Sep 28 j 23:56	0°♉	
retrograde	-8714 Oct 11 j 08:53	0°♉07'50	
	-8714 Oct 23 j 19:05	30°℞♈	
opposition	-8714 Dec 19 j 04:07	26°♈51'20	0°23'07
min. Earth dist.	-8714 Dec 19 j 05:40	26°♈51'03	9.09624 AU
direct	-8713 Feb 28 j 19:42	23°♈28'40	
	-8713 Jun 07 j 15:54	0°♉	
evening set	-8713 Jun 12 j 20:23	0°♉34'55	
conjunction	-8713 Jun 29 j 21:53	2°♉32'31	0°33'24
minimum elong	-8713 Jun 29 j 21:51	2°♉32'30	0°33'38
max. Earth dist.	-8713 Jun 29 j 17:21	2°♉31'12	11.14986 AU
morning rise	-8713 Jul 16 j 18:32	4°♉28'44	
retrograde	-8713 Oct 22 j 12:17	11°♉11'33	
opposition	-8713 Dec 30 j 18:56	7°♉55'59	0°56'59
min. Earth dist.	-8713 Dec 31 j 00:13	7°♉55'00	9.19626 AU
direct	-8712 Mar 11 j 17:54	4°♉34'31	
evening set	-8712 Jun 23 j 04:53	11°♉34'31	
conjunction	-8712 Jul 10 j 02:10	13°♉30'04	1°00'12
minimum elong	-8712 Jul 10 j 02:07	13°♉30'04	1°00'31
max. Earth dist.	-8712 Jul 09 j 17:19	13°♉27'32	11.23586 AU
	-8712 Jul 23 j 04:28	15°♉	
morning rise	-8712 Jul 26 j 19:00	15°♉24'26	
retrograde	-8712 Nov 01 j 14:17	22°♉04'02	
opposition	-8711 Jan 10 j 06:47	18°♉49'05	1°28'09
min. Earth dist.	-8711 Jan 10 j 15:02	18°♉47'35	9.26855 AU
direct	-8711 Mar 23 j 10:49	15°♉28'43	
evening set	-8711 Jul 04 j 07:42	22°♉24'06	
conjunction	-8711 Jul 21 j 01:04	24°♉18'05	1°24'30
minimum elong	-8711 Jul 21 j 01:01	24°♉18'04	1°24'54
max. Earth dist.	-8711 Jul 20 j 13:08	24°♉14'40	11.29290 AU
morning rise	-8711 Aug 06 j 14:23	26°♉11'02	
	-8711 Sep 13 j 03:28	0°♊	
retrograde	-8711 Nov 12 j 16:57	2°♊49'33	
	-8710 Jan 15 j 23:35	30°℞♉	
opposition	-8710 Jan 21 j 17:29	29°♉34'57	1°55'52
min. Earth dist.	-8710 Jan 22 j 05:12	29°♉32'49	9.31100 AU
direct	-8710 Apr 03 j 21:54	26°♉15'31	
	-8710 Jun 15 j 06:22	0°♊	
evening set	-8710 Jul 15 j 06:33	3°♊07'53	
conjunction	-8710 Jul 31 j 20:16	5°♊00'47	1°45'38
minimum elong	-8710 Jul 31 j 20:13	5°♊00'46	1°46'07
max. Earth dist.	-8710 Jul 31 j 04:29	4°♊56'16	11.31936 AU
morning rise	-8710 Aug 17 j 06:47	6°♊52'52	
retrograde	-8710 Nov 23 j 18:35	13°♊32'24	
opposition	-8709 Feb 02 j 04:16	10°♊17'46	2°19'26
min. Earth dist.	-8709 Feb 02 j 19:44	10°♊14'58	9.32235 AU
direct	-8709 Apr 15 j 06:15	6°♊59'03	
evening set	-8709 Jul 26 j 03:23	13°♊50'06	
conjunction	-8709 Aug 11 j 14:02	15°♊42'24	2°03'03
minimum elong	-8709 Aug 11 j 13:59	15°♊42'23	2°03'35
max. Earth dist.	-8709 Aug 10 j 18:33	15°♊36'49	11.31449 AU
morning rise	-8709 Aug 27 j 22:29	17°♊34'09	
retrograde	-8709 Dec 05 j 00:40	24°♊16'41	
opposition	-8708 Feb 13 j 16:21	21°♊01'41	2°38'12
min. Earth dist.	-8708 Feb 14 j 10:08	20°♊58'27	9.30214 AU
direct	-8708 Apr 25 j 14:58	17°♊43'26	
evening set	-8708 Aug 04 j 23:42	24°♊34'44	
max. Earth dist.	-8708 Aug 20 j 11:10	26°♊20'57	11.27832 AU
conjunction	-8708 Aug 21 j 08:13	26°♊27'02	2°16'11
minimum elong	-8708 Aug 21 j 08:11	26°♊27'01	2°16'45
morning rise	-8708 Sep 06 j 15:17	28°♊19'00	
	-8708 Sep 21 j 23:22	0°♋	
retrograde	-8708 Dec 15 j 10:58	5°♋06'28	
opposition	-8707 Feb 24 j 07:33	1°♋50'45	2°51'35
min. Earth dist.	-8707 Feb 25 j 02:31	1°♋47'18	9.25078 AU
	-8707 Mar 23 j 07:41	30°℞♊	
direct	-8707 May 06 j 22:31	28°♊32'47	
	-8707 Jun 19 j 04:21	0°♋	
evening set	-8707 Aug 15 j 21:14	5°♋25'51	
max. Earth dist.	-8707 Aug 31 j 06:23	7°♋12'15	11.21178 AU
conjunction	-8707 Sep 01 j 04:32	7°♋18'42	2°24'35
minimum elong	-8707 Sep 01 j 04:31	7°♋18'41	2°25'08
morning rise	-8707 Sep 17 j 11:09	9°♋11'29	
retrograde	-8707 Dec 27 j 04:38	16°♋05'45	
opposition	-8706 Mar 08 j 03:08	12°♋48'59	2°58'59
min. Earth dist.	-8706 Mar 08 j 23:16	12°♋45'19	9.16971 AU
direct	-8706 May 18 j 08:04	9°♋31'01	
evening set	-8706 Aug 26 j 22:03	16°♋27'23	
max. Earth dist.	-8706 Sep 11 j 05:01	18°♋14'20	11.11680 AU

Attention, astronomical year style is used: The year -8706 in astronomical counting style is the year 8707 BCE in historical counting style.

conjunction	-8706 Sep 12 j 05:00	18°♋21'23	2°27'46
minimum elong	-8706 Sep 12 j 05:00	18°♋21'23	2°28'18
morning rise	-8706 Sep 28 j 12:29	20°♋15'38	
retrograde	-8705 Jan 08 j 03:43	27°♋18'22	
opposition	-8705 Mar 20 j 04:06	24°♋00'16	2°59'52
min. Earth dist.	-8705 Mar 21 j 01:29	23°♋56'21	9.06121 AU
direct	-8705 May 29 j 19:42	20°♋42'02	
evening set	-8705 Sep 07 j 03:39	27°♋43'13	
max. Earth dist.	-8705 Sep 22 j 11:05	29°♋31'44	10.99602 AU
conjunction	-8705 Sep 23 j 11:30	29°♋39'00	2°25'20
minimum elong	-8705 Sep 23 j 11:32	29°♋39'01	2°25'51
	-8705 Sep 26 j 10:02	0°♌	
morning rise	-8705 Oct 09 j 21:00	1°♌35'21	
retrograde	-8704 Jan 20 j 12:27	8°♌48'16	
opposition	-8704 Mar 31 j 11:52	5°♌28'31	2°53'44
min. Earth dist.	-8704 Apr 01 j 09:07	5°♌24'35	8.92825 AU
direct	-8704 Jun 09 j 14:36	2°♌09'46	
evening set	-8704 Sep 17 j 15:47	9°♌17'14	
max. Earth dist.	-8704 Oct 03 j 02:52	11°♌08'29	10.85276 AU
conjunction	-8704 Oct 04 j 01:54	11°♌15'27	2°16'58
minimum elong	-8704 Oct 04 j 01:57	11°♌15'28	2°17'26
morning rise	-8704 Oct 20 j 14:26	13°♌14'31	
	-8704 Nov 04 j 20:27	15°♌	
retrograde	-8703 Feb 01 j 08:30	20°♌39'10	
opposition	-8703 Apr 13 j 03:32	17°♌17'35	2°40'11
min. Earth dist.	-8703 Apr 13 j 23:04	17°♌13'55	8.77484 AU
	-8703 May 16 j 19:20	15°℞♌	
direct	-8703 Jun 21 j 14:17	13°♌58'07	
	-8703 Jul 26 j 10:27	15°♌	
evening set	-8703 Sep 29 j 12:49	21°♌13'21	
max. Earth dist.	-8703 Oct 15 j 04:58	23°♌08'03	10.69186 AU
conjunction	-8703 Oct 16 j 02:20	23°♌14'37	2°02'27
minimum elong	-8703 Oct 16 j 02:23	23°♌14'38	2°02'52
morning rise	-8703 Nov 01 j 19:07	25°♌17'02	
	-8703 Dec 15 j 14:32	0°♍	
retrograde	-8702 Feb 14 j 15:40	2°♍54'43	
	-8702 Apr 19 j 20:15	30°℞♌	
opposition	-8702 Apr 26 j 03:59	29°♌31'09	2°18'59
min. Earth dist.	-8702 Apr 26 j 21:02	29°♌27'54	8.60700 AU
direct	-8702 Jul 03 j 20:58	26°♌10'46	
	-8702 Sep 10 j 08:26	0°♍	
evening set	-8702 Oct 11 j 20:38	3°♍35'08	
conjunction	-8702 Oct 28 j 14:30	5°♍39'59	1°41'51
minimum elong	-8702 Oct 28 j 14:33	5°♍40'01	1°42'10
max. Earth dist.	-8702 Oct 27 j 19:13	5°♍33'57	10.52040 AU
morning rise	-8702 Nov 14 j 12:40	7°♍46'16	
retrograde	-8701 Feb 28 j 10:52	15°♍37'47	
opposition	-8701 May 09 j 14:04	12°♍12'12	1°50'16
min. Earth dist.	-8701 May 10 j 04:14	12°♍09'27	8.43274 AU
direct	-8701 Jul 16 j 13:21	8°♍50'41	
evening set	-8701 Oct 24 j 16:53	16°♍25'17	
conjunction	-8701 Nov 10 j 15:55	18°♍34'04	1°15'32
minimum elong	-8701 Nov 10 j 15:58	18°♍34'05	1°15'42
max. Earth dist.	-8701 Nov 10 j 00:11	18°♍29'04	10.34685 AU
morning rise	-8701 Nov 27 j 20:08	20°♍44'32	
retrograde	-8700 Mar 13 j 17:29	28°♍50'08	
opposition	-8700 May 22 j 09:48	25°♍22'31	1°14'38
min. Earth dist.	-8700 May 22 j 20:18	25°♍20'27	8.26120 AU
direct	-8700 Jul 28 j 15:47	21°♍59'43	
evening set	-8700 Nov 06 j 03:06	29°♍45'18	
	-8700 Nov 08 j 01:22	0°♎	

conjunction	-8700 Nov 23 j 07:56	1°♎58'11	0°44'17
minimum elong	-8700 Nov 23 j 07:58	1°♎58'11	0°44'20
max. Earth dist.	-8700 Nov 22 j 21:37	1°♎54'50	10.18060 AU
morning rise	-8700 Dec 10 j 18:25	4°♎12'55	
retrograde	-8699 Mar 28 j 10:28	12°♎31'59	
opposition	-8699 Jun 05 j 14:49	9°♎02'28	0°33'23
min. Earth dist.	-8699 Jun 05 j 20:41	9°♎01'18	8.10213 AU
direct	-8699 Aug 11 j 05:56	5°♎38'18	
evening set	-8699 Nov 20 j 04:11	13°♎35'09	
conjunction	-8699 Dec 07 j 14:56	15°♎52'00	0°09'33
minimum elong	-8699 Dec 07 j 14:56	15°♎52'00	0°09'27
behind sun begin	-8699 Dec 07 j 08:55	15°♎50'02	
behind sun end	-8699 Dec 07 j 20:58	15°♎53'58	
max. Earth dist.	-8699 Dec 07 j 11:18	15°♎50'49	10.03125 AU
morning rise	-8699 Dec 25 j 07:23	18°♎10'45	
desc. node	-8698 Mar 17 j 23:15	26°♎06'58	
retrograde	-8698 Apr 12 j 12:52	26°♎41'44	
opposition	-8698 Jun 20 j 04:02	23°♎10'37	-0°11'23
min. Earth dist.	-8698 Jun 20 j 04:20	23°♎10'33	7.96511 AU
direct	-8698 Aug 25 j 06:59	19°♎45'02	
evening set	-8698 Dec 04 j 20:08	27°♎52'48	
	-8698 Dec 20 j 20:48	0°♏	
conjunction	-8698 Dec 22 j 12:18	0°♏13'10	-0°26'51
minimum elong	-8698 Dec 22 j 12:16	0°♏13'09	0°27'05
max. Earth dist.	-8698 Dec 22 j 15:38	0°♏14'16	9.90820 AU
morning rise	-8697 Jan 09 j 09:51	2°♏35'20	
retrograde	-8697 Apr 27 j 22:05	11°♏15'37	
opposition	-8697 Jul 04 j 23:44	7°♏43'18	-0°56'48
min. Earth dist.	-8697 Jul 04 j 18:21	7°♏44'25	7.85913 AU
direct	-8697 Sep 08 j 17:09	4°♏16'21	
evening set	-8697 Dec 20 j 01:36	12°♏33'52	
conjunction	-8696 Jan 06 j 22:16	14°♏56'56	-1°02'15
minimum elong	-8696 Jan 06 j 22:13	14°♏56'55	1°02'37
max. Earth dist.	-8696 Jan 07 j 08:31	15°♏00'23	9.81998 AU
	-8696 Jan 07 j 07:23	15°♏	
morning rise	-8696 Jan 24 j 23:45	17°♏21'37	
retrograde	-8696 May 12 j 11:31	26°♏07'34	
opposition	-8696 Jul 18 j 23:47	22°♏34'32	-1°39'28
min. Earth dist.	-8696 Jul 18 j 13:13	22°♏36'45	7.79171 AU
direct	-8696 Sep 22 j 11:15	19°♏06'19	
evening set	-8695 Jan 03 j 17:46	27°♏31'30	
conjunction	-8695 Jan 21 j 17:49	29°♏56'14	-1°34'01
minimum elong	-8695 Jan 21 j 17:45	29°♏56'13	1°34'29
max. Earth dist.	-8695 Jan 22 j 10:19	0°♐01'48	9.77304 AU
	-8695 Jan 22 j 04:59	0°♐	
morning rise	-8695 Feb 08 j 21:45	2°♐22'14	
retrograde	-8695 May 28 j 01:01	11°♐09'24	
min. Earth dist.	-8695 Aug 02 j 10:33	7°♐39'22	7.76764 AU
opposition	-8695 Aug 03 j 01:16	7°♐36'15	-2°15'48
direct	-8695 Oct 07 j 12:34	4°♐06'57	
evening set	-8694 Jan 19 j 16:49	12°♐36'52	
conjunction	-8694 Feb 06 j 18:55	15°♐02'05	-1°59'35
minimum elong	-8694 Feb 06 j 18:50	15°♐02'04	2°00'06
max. Earth dist.	-8694 Feb 07 j 16:18	15°♐09'18	9.77081 AU
morning rise	-8694 Feb 24 j 23:42	17°♐28'08	
retrograde	-8694 Jun 12 j 09:50	26°♐11'45	
min. Earth dist.	-8694 Aug 17 j 07:34	22°♐42'46	7.78857 AU
opposition	-8694 Aug 18 j 01:02	22°♐39'04	-2°42'48
direct	-8694 Oct 22 j 17:43	19°♐08'57	
evening set	-8693 Feb 04 j 17:28	27°♐40'02	
conjunction	-8693 Feb 22 j 20:24	0°♑04'35	-2°16'55

Attention, astronomical year style is used: The year -8693 in astronomical counting style is the year 8694 BCE in historical counting style.

minimum elong	-8693 Feb 22 j 20:21	0°♑04'34	2°17'29
	-8693 Feb 22 j 06:41	0°♑	
max. Earth dist.	-8693 Feb 23 j 21:08	0°♑12'51	9.81346 AU
morning rise	-8693 Mar 13 j 00:42	2°♑29'28	
retrograde	-8693 Jun 27 j 10:41	11°♑05'03	
opposition	-8693 Sep 01 j 20:20	7°♑33'24	-2°58'27
min. Earth dist.	-8693 Sep 01 j 01:11	7°♑37'27	7.85279 AU
direct	-8693 Nov 06 j 23:30	4°♑02'51	
evening set	-8692 Feb 20 j 14:26	12°♑31'17	
conjunction	-8692 Mar 09 j 17:15	14°♑54'10	-2°24'56
minimum elong	-8692 Mar 09 j 17:15	14°♑54'10	2°25'30
max. Earth dist.	-8692 Mar 10 j 19:42	15°♑02'55	9.89770 AU
morning rise	-8692 Mar 27 j 20:03	17°♑16'54	
retrograde	-8692 Jul 11 j 00:14	25°♑40'47	
opposition	-8692 Sep 15 j 08:34	22°♑10'38	-3°02'05
min. Earth dist.	-8692 Sep 14 j 12:41	22°♑14'48	7.95536 AU
direct	-8692 Nov 21 j 02:33	18°♑40'03	
evening set	-8691 Mar 07 j 03:33	27°♑02'23	
conjunction	-8691 Mar 25 j 05:28	29°♑22'51	-2°23'34
minimum elong	-8691 Mar 25 j 05:29	29°♑22'51	2°24'06
max. Earth dist.	-8691 Mar 26 j 07:51	29°♑31'26	10.01722 AU
	-8691 Mar 29 j 23:34	0°♒	
morning rise	-8691 Apr 12 j 05:55	1°♒42'41	
retrograde	-8691 Jul 25 j 00:58	9°♒52'22	
opposition	-8691 Sep 29 j 11:51	6°♒24'05	-2°54'15
min. Earth dist.	-8691 Sep 28 j 16:07	6°♒28'10	8.08893 AU
direct	-8691 Dec 05 j 22:35	2°♒53'53	
evening set	-8690 Mar 22 j 05:12	11°♒07'22	
conjunction	-8690 Apr 09 j 05:32	13°♒24'52	-2°13'35
minimum elong	-8690 Apr 09 j 05:35	13°♒24'53	2°14'03
max. Earth dist.	-8690 Apr 10 j 06:32	13°♒32'53	10.16376 AU
	-8690 Apr 21 j 15:42	15°♒	
morning rise	-8690 Apr 27 j 03:05	15°♒41'22	
retrograde	-8690 Aug 07 j 14:34	23°♒35'41	
min. Earth dist.	-8690 Oct 12 j 10:35	20°♒13'19	8.24478 AU
opposition	-8690 Oct 13 j 05:26	20°♒09'29	-2°36'33
direct	-8690 Dec 20 j 09:54	16°♒40'04	
evening set	-8689 Apr 05 j 17:09	24°♒42'50	
conjunction	-8689 Apr 23 j 15:17	26°♒57'04	-1°56'23
minimum elong	-8689 Apr 23 j 15:21	26°♒57'06	1°56'45
max. Earth dist.	-8689 Apr 24 j 14:05	27°♒04'15	10.32803 AU
morning rise	-8689 May 11 j 09:30	29°♒10'01	
	-8689 May 18 j 05:51	0°♓	
retrograde	-8689 Aug 20 j 16:03	6°♓48'58	
opposition	-8689 Oct 26 j 12:56	3°♓24'56	-2°11'02
min. Earth dist.	-8689 Oct 25 j 20:25	3°♓28'15	8.41362 AU
	-8689 Dec 26 j 09:47	30°♓℞	
direct	-8688 Jan 03 j 11:14	29°♒56'36	
	-8688 Jan 11 j 13:23	0°♓	
evening set	-8688 Apr 18 j 15:02	7°♓47'48	
conjunction	-8688 May 06 j 10:23	9°♓58'39	-1°33'39
minimum elong	-8688 May 06 j 10:27	9°♓58'40	1°33'55
max. Earth dist.	-8688 May 07 j 05:39	10°♓04'36	10.50055 AU
morning rise	-8688 May 24 j 00:56	12°♓08'02	
retrograde	-8688 Sep 01 j 05:09	19°♓32'28	
opposition	-8688 Nov 07 j 10:35	16°♓10'36	-1°39'57
min. Earth dist.	-8688 Nov 06 j 21:41	16°♓13'09	8.58633 AU
direct	-8687 Jan 16 j 02:40	12°♓43'34	
evening set	-8687 May 01 j 23:00	20°♓23'09	
conjunction	-8687 May 19 j 14:54	22°♓30'39	-1°07'07
minimum elong	-8687 May 19 j 14:57	22°♓30'40	1°07'15
max. Earth dist.	-8687 May 20 j 05:09	22°♓34'58	10.67237 AU
morning rise	-8687 Jun 06 j 01:36	24°♓36'33	
	-8687 Jul 29 j 09:44	0°♈	
retrograde	-8687 Sep 13 j 08:13	1°♈48'03	
	-8687 Oct 30 j 11:40	30°♓℞	
opposition	-8687 Nov 19 j 23:31	28°♓28'13	-1°05'27
min. Earth dist.	-8687 Nov 19 j 14:40	28°♓29'56	8.75448 AU
direct	-8686 Jan 29 j 07:32	25°♓02'36	
	-8686 Apr 22 j 04:22	0°♈	
evening set	-8686 May 14 j 17:40	2°♈31'08	
conjunction	-8686 Jun 01 j 05:39	4°♈35'24	-0°38'23
minimum elong	-8686 Jun 01 j 05:41	4°♈35'24	0°38'24
max. Earth dist.	-8686 Jun 01 j 14:09	4°♈37'56	10.83547 AU
morning rise	-8686 Jun 18 j 12:24	6°♈38'05	
retrograde	-8686 Sep 25 j 01:28	13°♈38'37	
opposition	-8686 Dec 02 j 04:29	10°♈20'31	-0°29'23
min. Earth dist.	-8686 Dec 01 j 23:12	10°♈21'32	8.91056 AU
direct	-8685 Feb 11 j 03:14	6°♈56'21	
evening set	-8685 May 27 j 00:33	14°♈14'52	
conjunction	-8685 Jun 13 j 08:27	16°♈16'10	-0°08'54
minimum elong	-8685 Jun 13 j 08:27	16°♈16'10	0°08'48
behind sun begin	-8685 Jun 13 j 02:20	16°♈14'23	
behind sun end	-8685 Jun 13 j 14:34	16°♈17'56	
max. Earth dist.	-8685 Jun 13 j 11:46	16°♈17'07	10.98290 AU
morning rise	-8685 Jun 30 j 11:05	18°♈15'56	
asc. node	-8685 Oct 05 j 04:12	25°♈07'32	
retrograde	-8685 Oct 06 j 13:10	25°♈07'38	
opposition	-8685 Dec 14 j 02:38	21°♈51'00	0°06'42
min. Earth dist.	-8685 Dec 14 j 01:02	21°♈51'18	9.04801 AU
direct	-8684 Feb 23 j 14:04	18°♈28'12	
evening set	-8684 Jun 06 j 21:17	25°♈38'03	
conjunction	-8684 Jun 24 j 00:59	27°♈36'44	0°20'17
minimum elong	-8684 Jun 24 j 00:58	27°♈36'44	0°20'29
max. Earth dist.	-8684 Jun 23 j 23:49	27°♈36'24	11.10857 AU
morning rise	-8684 Jul 10 j 23:24	29°♈33'57	
	-8684 Jul 14 j 19:39	0°♉	
retrograde	-8684 Oct 16 j 20:04	6°♉19'05	
opposition	-8684 Dec 24 j 19:50	3°♉03'34	0°41'31
min. Earth dist.	-8684 Dec 24 j 22:44	3°♉03'02	9.16125 AU
	-8683 Feb 15 j 00:04	30°♓℞	
direct	-8683 Mar 06 j 14:29	29°♈42'03	
	-8683 Mar 26 j 04:11	0°♉	
evening set	-8683 Jun 18 j 09:36	6°♉44'50	
conjunction	-8683 Jul 05 j 08:55	8°♉41'17	0°48'01
minimum elong	-8683 Jul 05 j 08:53	8°♉41'16	0°48'19
max. Earth dist.	-8683 Jul 05 j 02:37	8°♉39'28	11.20750 AU
morning rise	-8683 Jul 22 j 03:21	10°♉36'25	
	-8683 Sep 04 j 06:09	15°♉	
retrograde	-8683 Oct 27 j 22:37	17°♉17'18	
	-8683 Dec 23 j 04:05	15°♓℞	
opposition	-8682 Jan 05 j 09:29	14°♉02'35	1°14'04
min. Earth dist.	-8682 Jan 05 j 17:21	14°♉01'08	9.24613 AU
direct	-8682 Mar 18 j 10:04	10°♉42'09	
	-8682 Jun 04 j 14:31	15°♉	
evening set	-8682 Jun 29 j 15:25	17°♉39'37	
conjunction	-8682 Jul 16 j 10:28	19°♉34'16	1°13'35
minimum elong	-8682 Jul 16 j 10:25	19°♉34'15	1°13'57
max. Earth dist.	-8682 Jul 15 j 22:33	19°♉30'51	11.27665 AU
morning rise	-8682 Aug 02 j 01:27	21°♉27'48	
retrograde	-8682 Nov 08 j 00:19	28°♉06'41	
opposition	-8681 Jan 16 j 20:53	24°♉52'21	1°43'30
min. Earth dist.	-8681 Jan 17 j 08:26	24°♉50'15	9.30035 AU

Attention, astronomical year style is used: The year -8681 in astronomical counting style is the year 8682 BCE in historical counting style.

direct	-8681 Mar 30 j 00:38	21°♉32'50		
evening set	-8681 Jul 10 j 16:19	28°♉26'37		
	-8681 Jul 24 j 09:48	0°♊		
conjunction	-8681 Jul 27 j 07:39	0°♊19'59	1°36'17	
minimum elong	-8681 Jul 27 j 07:36	0°♊19'58	1°36'44	
max. Earth dist.	-8681 Jul 26 j 16:05	0°♊15'32	11.31450 AU	
morning rise	-8681 Aug 12 j 19:31	2°♊12'26		
retrograde	-8681 Nov 19 j 02:38	8°♊51'26		
opposition	-8680 Jan 28 j 07:39	5°♊37'06	2°09'05	
min. Earth dist.	-8680 Jan 28 j 21:52	5°♊34'31	9.32271 AU	
direct	-8680 Apr 09 j 11:50	2°♊18'16		
evening set	-8680 Jul 20 j 14:12	9°♊10'00		
max. Earth dist.	-8680 Aug 05 j 08:15	10°♊57'23	11.32032 AU	
conjunction	-8680 Aug 06 j 02:21	11°♊02'34	1°55'29	
minimum elong	-8680 Aug 06 j 02:18	11°♊02'33	1°56'00	
morning rise	-8680 Aug 22 j 11:34	12°♊54'26		
retrograde	-8680 Nov 29 j 08:15	19°♊35'33		
opposition	-8679 Feb 07 j 19:21	16°♊20'52	2°30'09	
min. Earth dist.	-8679 Feb 08 j 12:25	16°♊17'46	9.31299 AU	
direct	-8679 Apr 20 j 20:11	13°♊02'28		
evening set	-8679 Jul 31 j 10:52	19°♊53'43		
conjunction	-8679 Aug 16 j 20:20	21°♊46'01	2°10'40	
minimum elong	-8679 Aug 16 j 20:18	21°♊46'00	2°11'14	
max. Earth dist.	-8679 Aug 15 j 22:58	21°♊39'52	11.29441 AU	
morning rise	-8679 Sep 02 j 03:53	23°♊37'52		
	-8679 Nov 18 j 19:13	0°♋		
retrograde	-8679 Dec 10 j 14:43	0°♋23'03		
	-8678 Jan 01 j 18:04	30°℞♊		
opposition	-8678 Feb 19 j 09:19	27°♊07'37	2°46'07	
min. Earth dist.	-8678 Feb 20 j 05:13	27°♊04'01	9.27182 AU	
direct	-8678 May 02 j 02:45	23°♊49'23		
	-8678 Aug 05 j 02:48	0°♋		
evening set	-8678 Aug 11 j 07:45	0°♋41'44		
conjunction	-8678 Aug 27 j 15:26	2°♋34'20	2°21'19	
minimum elong	-8678 Aug 27 j 15:25	2°♋34'19	2°21'53	
max. Earth dist.	-8678 Aug 26 j 15:43	2°♋27'27	11.23777 AU	
morning rise	-8678 Sep 12 j 22:20	4°♋26'45		
retrograde	-8678 Dec 22 j 04:22	11°♋17'54		
opposition	-8677 Mar 03 j 02:43	8°♋01'23	2°56'23	
min. Earth dist.	-8677 Mar 04 j 00:07	7°♋57'30	9.20043 AU	
direct	-8677 May 13 j 13:26	4°♋43'04		
evening set	-8677 Aug 22 j 06:47	11°♋38'04		
conjunction	-8677 Sep 07 j 13:50	13°♋31'34	2°26'59	
minimum elong	-8677 Sep 07 j 13:50	13°♋31'34	2°27'31	
max. Earth dist.	-8677 Sep 06 j 13:47	13°♋24'32	11.15201 AU	
morning rise	-8677 Sep 23 j 20:51	15°♋25'10		
retrograde	-8676 Jan 03 j 00:23	22°♋24'04		
opposition	-8676 Mar 14 j 00:50	19°♋06'11	3°00'23	
min. Earth dist.	-8676 Mar 14 j 22:06	19°♋02'17	9.10093 AU	
direct	-8676 May 24 j 00:15	15°♋47'37		
evening set	-8676 Sep 01 j 09:48	22°♋46'46		
conjunction	-8676 Sep 17 j 17:17	24°♋41'47	2°27'12	
minimum elong	-8676 Sep 17 j 17:18	24°♋41'48	2°27'44	
max. Earth dist.	-8676 Sep 16 j 17:12	24°♋34'40	11.03985 AU	
morning rise	-8676 Oct 04 j 01:35	26°♋37'12		
	-8676 Nov 04 j 08:39	0°♌		
retrograde	-8675 Jan 14 j 06:01	3°♌45'35		
opposition	-8675 Mar 26 j 05:23	0°♌26'06	2°57'34	
min. Earth dist.	-8675 Mar 27 j 02:18	0°♌22'13	8.97657 AU	
	-8675 Apr 01 j 02:44	30°℞♋		
direct	-8675 Jun 04 j 15:21	27°♋07'04		
	-8675 Aug 04 j 02:23	0°♌		
evening set	-8675 Sep 12 j 18:37	4°♌11'51		
max. Earth dist.	-8675 Sep 28 j 03:24	6°♌01'46	10.90507 AU	
conjunction	-8675 Sep 29 j 03:35	6°♌09'02	2°21'37	
minimum elong	-8675 Sep 29 j 03:37	6°♌09'02	2°22'07	
morning rise	-8675 Oct 15 j 14:36	8°♌06'54		
	-8674 Jan 03 j 14:42	15°♌		
retrograde	-8674 Jan 26 j 20:15	15°♌26'19		
	-8674 Feb 19 j 06:41	15°℞♌		
opposition	-8674 Apr 07 j 17:20	12°♌05'04	2°47'30	
min. Earth dist.	-8674 Apr 08 j 13:40	12°♌01'15	8.83160 AU	
direct	-8674 Jun 16 j 10:55	8°♌45'22		
	-8674 Sep 16 j 08:50	15°♌		
evening set	-8674 Sep 24 j 11:19	15°♌57'16		
conjunction	-8674 Oct 10 j 23:03	17°♌57'11	2°09'59	
minimum elong	-8674 Oct 10 j 23:06	17°♌57'12	2°10'24	
max. Earth dist.	-8674 Oct 10 j 00:03	17°♌50'10	10.75235 AU	
morning rise	-8674 Oct 27 j 13:55	19°♌58'08		
retrograde	-8673 Feb 08 j 20:14	27°♌29'56		
opposition	-8673 Apr 20 j 13:28	24°♌06'46	2°29'50	
min. Earth dist.	-8673 Apr 21 j 08:13	24°♌03'12	8.67136 AU	
direct	-8673 Jun 28 j 15:09	20°♌46'15		
evening set	-8673 Oct 06 j 13:40	28°♌06'37		
	-8673 Oct 21 j 21:42	0°♍		
max. Earth dist.	-8673 Oct 22 j 09:45	0°♍03'44	10.58749 AU	
conjunction	-8673 Oct 23 j 05:25	0°♍09'51	1°52'11	
minimum elong	-8673 Oct 23 j 05:29	0°♍09'52	1°52'31	
morning rise	-8673 Nov 09 j 01:03	2°♍14'23		
retrograde	-8672 Feb 22 j 09:21	9°♍59'39		
opposition	-8672 May 02 j 18:56	6°♍34'29	2°04'33	
min. Earth dist.	-8672 May 03 j 10:15	6°♍31'32	8.50243 AU	
direct	-8672 Jul 10 j 04:10	3°♍13'02		
evening set	-8672 Oct 18 j 03:35	10°♍42'58		
max. Earth dist.	-8672 Nov 03 j 08:46	12°♍45'05	10.41762 AU	
conjunction	-8672 Nov 04 j 00:16	12°♍49'59	1°28'26	
minimum elong	-8672 Nov 04 j 00:20	12°♍50'00	1°28'40	
morning rise	-8672 Nov 21 j 01:31	14°♍58'32		
retrograde	-8671 Mar 07 j 11:45	22°♍57'45		
opposition	-8671 May 16 j 10:05	19°♍30'39	1°31'59	
min. Earth dist.	-8671 May 16 j 21:01	19°♍28'30	8.33263 AU	
direct	-8671 Jul 23 j 00:45	16°♍08'09		
evening set	-8671 Oct 31 j 07:05	23°♍48'38		
conjunction	-8671 Nov 17 j 09:17	25°♍59'39	0°59'19	
minimum elong	-8671 Nov 17 j 09:20	25°♍59'40	0°59'26	
max. Earth dist.	-8671 Nov 16 j 22:17	25°♍56'06	10.25104 AU	
morning rise	-8671 Dec 04 j 16:43	28°♍12'26		
	-8671 Dec 19 j 06:31	0°♎		
retrograde	-8670 Mar 22 j 00:28	6°♎25'22		
opposition	-8670 May 30 j 10:38	2°♎56'29	0°53'07	
min. Earth dist.	-8670 May 30 j 16:55	2°♎55'14	8.17086 AU	
	-8670 Jul 14 j 02:29	30°℞♍		
direct	-8670 Aug 05 j 08:28	29°♍32'50		
	-8670 Aug 27 j 09:01	0°♎		
evening set	-8670 Nov 14 j 01:12	7°♎24'26		
conjunction	-8670 Dec 01 j 09:08	9°♎39'28	0°25'58	
minimum elong	-8670 Dec 01 j 09:09	9°♎39'28	0°25'56	
max. Earth dist.	-8670 Dec 01 j 03:07	9°♎37'30	10.09694 AU	
morning rise	-8670 Dec 18 j 22:49	11°♎56'23		
retrograde	-8669 Apr 05 j 23:20	20°♎22'00		
opposition	-8669 Jun 13 j 20:15	16°♎51'34	0°09'38	
min. Earth dist.	-8669 Jun 13 j 21:50	16°♎51'15	8.02664 AU	

Attention, astronomical year style is used: The year -8669 in astronomical counting style is the year 8670 BCE in historical counting style.

direct	-8669 Aug 19 j 03:38	13°♎26'43	
desc. node	-8669 Sep 02 j 09:13	13°♎38'21	
evening set	-8669 Nov 28 j 10:10	21°♎29'24	
conjunction	-8669 Dec 15 j 23:39	23°♎48'08	-0°10'00
minimum elong	-8669 Dec 15 j 23:38	23°♎48'07	0°10'10
behind sun begin	-8669 Dec 15 j 17:51	23°♎46'14	
behind sun end	-8669 Dec 16 j 05:25	23°♎50'01	
max. Earth dist.	-8669 Dec 15 j 23:54	23°♎48'12	9.96482 AU
morning rise	-8668 Jan 02 j 18:59	26°♎08'46	
	-8668 Feb 03 j 10:41	0°♏	
retrograde	-8668 Apr 20 j 06:14	4°♏44'58	
opposition	-8668 Jun 27 j 13:25	1°♏13'21	-0°35'54
min. Earth dist.	-8668 Jun 27 j 10:06	1°♏14'02	7.90941 AU
	-8668 Jul 12 j 18:16	30℞♎	
direct	-8668 Sep 01 j 09:29	27°♎47'17	
	-8668 Oct 20 j 07:07	0°♏	
evening set	-8668 Dec 12 j 09:35	6°♏00'15	
conjunction	-8668 Dec 30 j 04:04	8°♏22'03	-0°46'09
minimum elong	-8668 Dec 30 j 04:01	8°♏22'02	0°46'27
max. Earth dist.	-8668 Dec 30 j 11:13	8°♏24'27	9.86373 AU
morning rise	-8667 Jan 17 j 04:00	10°♏45'38	
	-8667 Feb 20 j 22:12	15°♏	
retrograde	-8667 May 05 j 18:14	19°♏29'10	
opposition	-8667 Jul 12 j 11:51	15°♏56'47	-1°20'16
min. Earth dist.	-8667 Jul 12 j 03:35	15°♏58'31	7.82747 AU
	-8667 Jul 24 j 00:21	15℞♏	
direct	-8667 Sep 16 j 00:50	12°♏29'34	
	-8667 Nov 07 j 03:26	15°♏	
evening set	-8667 Dec 27 j 21:19	20°♏51'09	
conjunction	-8666 Jan 14 j 19:48	23°♏15'05	-1°19'56
minimum elong	-8666 Jan 14 j 19:44	23°♏15'04	1°20'21
max. Earth dist.	-8666 Jan 15 j 09:41	23°♏19'46	9.80103 AU
morning rise	-8666 Feb 01 j 22:49	25°♏40'29	
	-8666 Mar 09 j 06:11	0°♐	
retrograde	-8666 May 21 j 07:39	4°♐27'12	
opposition	-8666 Jul 27 j 13:02	0°♐54'35	-1°59'55
min. Earth dist.	-8666 Jul 27 j 00:08	0°♐57'17	7.78671 AU
	-8666 Aug 07 j 12:18	30℞♏	
direct	-8666 Oct 01 j 00:20	27°♏26'18	
	-8666 Nov 22 j 17:41	0°♐	
evening set	-8665 Jan 12 j 17:36	5°♐53'52	
conjunction	-8665 Jan 30 j 18:46	8°♐18'47	-1°48'38
minimum elong	-8665 Jan 30 j 18:41	8°♐18'45	1°49'08
max. Earth dist.	-8665 Jan 31 j 14:41	8°♐25'30	9.78131 AU
morning rise	-8665 Feb 17 j 23:14	10°♐44'44	
retrograde	-8665 Jun 05 j 18:05	19°♐29'58	
opposition	-8665 Aug 11 j 13:50	15°♐57'36	-2°31'30
min. Earth dist.	-8665 Aug 10 j 21:01	16°♐01'08	7.78976 AU
direct	-8665 Oct 16 j 04:21	12°♐28'28	
evening set	-8664 Jan 28 j 17:50	20°♐58'40	
conjunction	-8664 Feb 15 j 20:29	23°♐23'24	-2°09'56
minimum elong	-8664 Feb 15 j 20:25	23°♐23'23	2°10'29
max. Earth dist.	-8664 Feb 16 j 20:47	23°♐31'33	9.80552 AU
morning rise	-8664 Mar 05 j 00:59	25°♐48'42	
	-8664 Apr 08 j 06:46	0°♑	
retrograde	-8664 Jun 19 j 22:20	4°♑27'49	
opposition	-8664 Aug 25 j 11:10	0°♑56'12	-2°52'32
min. Earth dist.	-8664 Aug 24 j 15:58	1°♑00'15	7.83526 AU
	-8664 Sep 05 j 17:40	30℞♐	
direct	-8664 Oct 30 j 09:33	27°♐26'27	
	-8664 Dec 22 j 17:19	0°♑	
evening set	-8663 Feb 12 j 16:55	5°♑55'45	

conjunction	-8663 Mar 02 j 19:57	8°♑19'18	-2°22'20
minimum elong	-8663 Mar 02 j 19:55	8°♑19'18	2°22'54
max. Earth dist.	-8663 Mar 03 j 22:22	8°♑28'05	9.87046 AU
morning rise	-8663 Mar 20 j 23:20	10°♑42'54	
retrograde	-8663 Jul 04 j 17:42	19°♑12'03	
min. Earth dist.	-8663 Sep 08 j 06:49	15°♑45'54	7.91855 AU
opposition	-8663 Sep 09 j 02:41	15°♑41'44	-3°01'42
direct	-8663 Nov 14 j 12:33	12°♑11'44	
evening set	-8662 Feb 28 j 10:11	20°♑36'47	
conjunction	-8662 Mar 18 j 12:38	22°♑58'19	-2°25'15
minimum elong	-8662 Mar 18 j 12:38	22°♑58'19	2°25'48
max. Earth dist.	-8662 Mar 19 j 15:17	23°♑07'03	9.97086 AU
morning rise	-8662 Apr 05 j 14:00	25°♑19'24	
	-8662 May 15 j 11:25	0°♒	
retrograde	-8662 Jul 19 j 02:14	3°♒35'45	
opposition	-8662 Sep 23 j 10:23	0°♒07'06	-2°59'03
min. Earth dist.	-8662 Sep 22 j 15:03	0°♒11'07	8.03414 AU
	-8662 Sep 24 j 20:33	30℞♑	
direct	-8662 Nov 29 j 10:47	26°♑37'12	
	-8661 Jan 31 j 20:56	0°♒	
evening set	-8661 Mar 15 j 17:41	4°♒54'57	
conjunction	-8661 Apr 02 j 18:48	7°♒13'51	-2°19'06
minimum elong	-8661 Apr 02 j 18:51	7°♒13'52	2°19'36
max. Earth dist.	-8661 Apr 03 j 20:07	7°♒22'01	10.10075 AU
morning rise	-8661 Apr 20 j 17:37	9°♒31'53	
	-8661 Jun 08 j 22:29	15°♒	
retrograde	-8661 Aug 01 j 22:32	17°♒33'35	
	-8661 Sep 26 j 10:41	15℞♒	
opposition	-8661 Oct 07 j 08:54	14°♒06'50	-2°45'42
min. Earth dist.	-8661 Oct 06 j 15:08	14°♒10'28	8.17532 AU
direct	-8661 Dec 14 j 03:05	10°♒37'22	
	-8660 Feb 26 j 05:25	15°♒	
evening set	-8660 Mar 29 j 12:38	18°♒45'30	
conjunction	-8660 Apr 16 j 11:49	21°♒01'20	-2°05'02
minimum elong	-8660 Apr 16 j 11:53	21°♒01'21	2°05'27
max. Earth dist.	-8660 Apr 17 j 10:10	21°♒08'25	10.25231 AU
morning rise	-8660 May 04 j 07:42	23°♒16'00	
	-8660 Jul 11 j 07:50	0°♓	
retrograde	-8660 Aug 14 j 04:41	1°♓02'23	
	-8660 Sep 17 j 09:32	30℞♒	
opposition	-8660 Oct 19 j 21:31	27°♒37'38	-2°23'31
min. Earth dist.	-8660 Oct 19 j 05:48	27°♒40'48	8.33365 AU
direct	-8660 Dec 27 j 11:05	24°♒08'56	
	-8659 Mar 25 j 23:36	0°♓	
evening set	-8659 Apr 12 j 17:45	2°♓06'02	
conjunction	-8659 Apr 30 j 14:23	4°♓18'34	-1°44'37
minimum elong	-8659 Apr 30 j 14:27	4°♓18'35	1°44'56
max. Earth dist.	-8659 May 01 j 08:48	4°♓24'18	10.41652 AU
morning rise	-8659 May 18 j 06:52	6°♓29'43	
retrograde	-8659 Aug 26 j 22:19	14°♓01'15	
min. Earth dist.	-8659 Nov 01 j 10:39	10°♓41'09	8.50014 AU
opposition	-8659 Nov 02 j 00:08	10°♓38'28	-1°54'44
direct	-8658 Jan 10 j 09:01	7°♓10'47	
evening set	-8658 Apr 26 j 08:31	14°♓56'19	
conjunction	-8658 May 14 j 02:08	17°♓05'30	-1°19'37
minimum elong	-8658 May 14 j 02:11	17°♓05'31	1°19'48
max. Earth dist.	-8658 May 14 j 16:44	17°♓09'58	10.58442 AU
morning rise	-8658 May 31 j 14:51	19°♓13'10	
retrograde	-8658 Sep 08 j 07:22	26°♓31'05	
opposition	-8658 Nov 14 j 17:26	23°♓10'10	-1°21'32
min. Earth dist.	-8658 Nov 14 j 06:49	23°♓12'14	8.66626 AU
direct	-8657 Jan 23 j 18:32	19°♓43'41	

Attention, astronomical year style is used: The year -8657 in astronomical counting style is the year 8658 BCE in historical counting style.

evening set	-8657 May 09 j 09:26	27°♓17'51	
conjunction	-8657 May 26 j 23:33	29°♓23'48	-0°51'41
minimum elong	-8657 May 26 j 23:36	29°♓23'49	0°51'45
max. Earth dist.	-8657 May 27 j 10:10	29°♓27'00	10.74770 AU
	-8657 Jun 01 j 00:01	0°♈	
morning rise	-8657 Jun 13 j 08:15	1°♈28'08	
retrograde	-8657 Sep 20 j 05:35	8°♈34'11	
opposition	-8657 Nov 27 j 02:16	5°♈14'58	-0°45'57
min. Earth dist.	-8657 Nov 26 j 19:38	5°♈16'15	8.82424 AU
direct	-8656 Feb 05 j 18:10	1°♈49'45	
evening set	-8656 May 20 j 22:05	9°♈13'26	
conjunction	-8656 Jun 07 j 08:10	11°♈16'19	-0°22'21
minimum elong	-8656 Jun 07 j 08:11	11°♈16'19	0°22'18
max. Earth dist.	-8656 Jun 07 j 13:54	11°♈18'01	10.89906 AU
morning rise	-8656 Jun 24 j 12:43	13°♈17'37	
retrograde	-8656 Sep 30 j 19:43	20°♈13'49	
opposition	-8656 Dec 08 j 03:50	16°♈56'06	-0°09'39
min. Earth dist.	-8656 Dec 08 j 01:45	16°♈56'29	8.96751 AU
direct	-8655 Feb 17 j 09:06	13°♈32'08	
asc. node	-8655 Mar 18 j 12:49	14°♈12'30	
evening set	-8655 Jun 01 j 23:46	20°♈46'35	
conjunction	-8655 Jun 19 j 05:28	22°♈46'40	0°07'11
minimum elong	-8655 Jun 19 j 05:27	22°♈46'40	0°07'21
behind sun begin	-8655 Jun 18 j 22:58	22°♈44'48	
behind sun end	-8655 Jun 19 j 11:56	22°♈48'32	
max. Earth dist.	-8655 Jun 19 j 05:24	22°♈46'39	11.03264 AU
morning rise	-8655 Jul 06 j 05:59	24°♈45'15	
	-8655 Aug 29 j 16:28	0°♉	
retrograde	-8655 Oct 12 j 03:51	1°♉33'51	
	-8655 Nov 25 j 22:29	30°℞♈	
opposition	-8655 Dec 19 j 23:37	28°♈17'19	0°25'57
min. Earth dist.	-8655 Dec 20 j 01:14	28°♈17'01	9.09074 AU
direct	-8654 Mar 01 j 14:50	24°♈54'38	
	-8654 May 26 j 04:20	0°♉	
evening set	-8654 Jun 13 j 15:55	2°♉01'13	
conjunction	-8654 Jun 30 j 17:16	3°♉58'52	0°35'40
minimum elong	-8654 Jun 30 j 17:15	3°♉58'52	0°35'55
max. Earth dist.	-8654 Jun 30 j 12:38	3°♉57'32	11.14378 AU
morning rise	-8654 Jul 17 j 13:48	5°♉55'09	
retrograde	-8654 Oct 23 j 08:11	12°♉38'24	
opposition	-8654 Dec 31 j 14:54	9°♉22'45	0°59'42
min. Earth dist.	-8654 Dec 31 j 19:34	9°♉21'53	9.18966 AU
direct	-8653 Mar 13 j 14:37	6°♉01'15	
evening set	-8653 Jun 25 j 00:40	13°♉01'35	
conjunction	-8653 Jul 11 j 21:53	14°♉57'13	1°02'21
minimum elong	-8653 Jul 11 j 21:51	14°♉57'12	1°02'40
max. Earth dist.	-8653 Jul 11 j 13:49	14°♉54'54	11.22879 AU
	-8653 Jul 12 j 07:35	15°♉	
morning rise	-8653 Jul 28 j 14:30	16°♉51'37	
retrograde	-8653 Nov 03 j 11:47	23°♉31'40	
opposition	-8652 Jan 12 j 03:09	20°♉16'38	1°30'40
min. Earth dist.	-8652 Jan 12 j 11:33	20°♉15'06	9.26111 AU
direct	-8652 Mar 24 j 06:34	16°♉56'13	
evening set	-8652 Jul 05 j 03:52	23°♉51'56	
conjunction	-8652 Jul 21 j 21:02	25°♉45'59	1°26'26
minimum elong	-8652 Jul 21 j 20:59	25°♉45'59	1°26'51
max. Earth dist.	-8652 Jul 21 j 08:50	25°♉42'30	11.28509 AU
morning rise	-8652 Aug 07 j 10:13	27°♉39'01	
	-8652 Aug 29 j 08:36	0°♊	
retrograde	-8652 Nov 13 j 12:30	4°♊18'00	
opposition	-8651 Jan 22 j 14:16	1°♊03'17	1°58'06
min. Earth dist.	-8651 Jan 23 j 02:36	1°♊01'02	9.30300 AU
	-8651 Feb 06 j 07:44	30°℞♉	
direct	-8651 Apr 04 j 17:33	27°♉43'45	
	-8651 May 30 j 01:31	0°♊	
evening set	-8651 Jul 16 j 03:01	4°♊36'31	
conjunction	-8651 Aug 01 j 16:29	6°♊29'28	1°47'18
minimum elong	-8651 Aug 01 j 16:26	6°♊29'27	1°47'47
max. Earth dist.	-8651 Aug 01 j 00:09	6°♊24'47	11.31114 AU
morning rise	-8651 Aug 18 j 02:57	8°♊21'37	
retrograde	-8651 Nov 24 j 15:43	15°♊01'40	
opposition	-8650 Feb 03 j 01:27	11°♊46'54	2°21'16
min. Earth dist.	-8650 Feb 03 j 16:41	11°♊44'09	9.31407 AU
direct	-8650 Apr 16 j 04:07	8°♊28'05	
evening set	-8650 Jul 27 j 00:01	15°♊19'30	
conjunction	-8650 Aug 12 j 10:36	17°♊11'53	2°04'21
minimum elong	-8650 Aug 12 j 10:33	17°♊11'52	2°04'53
max. Earth dist.	-8650 Aug 11 j 15:54	17°♊06'31	11.30614 AU
morning rise	-8650 Aug 28 j 18:56	19°♊03'42	
retrograde	-8650 Dec 05 j 21:53	25°♊46'47	
opposition	-8649 Feb 14 j 13:56	22°♊31'37	2°39'35
min. Earth dist.	-8649 Feb 15 j 06:48	22°♊28'34	9.29383 AU
direct	-8649 Apr 27 j 11:57	19°♊13'19	
evening set	-8649 Aug 06 j 20:34	26°♊04'58	
max. Earth dist.	-8649 Aug 22 j 08:49	27°♊51'29	11.27007 AU
conjunction	-8649 Aug 23 j 05:06	27°♊57'20	2°17'06
minimum elong	-8649 Aug 23 j 05:04	27°♊57'19	2°17'39
morning rise	-8649 Sep 08 j 12:03	29°♊49'23	
	-8649 Sep 10 j 01:42	0°♋	
retrograde	-8649 Dec 17 j 10:07	6°♋37'23	
opposition	-8648 Feb 26 j 05:32	3°♋21'33	2°52'26
min. Earth dist.	-8648 Feb 27 j 00:11	3°♋18'10	9.24273 AU
direct	-8648 May 07 j 20:02	0°♋03'31	
evening set	-8648 Aug 16 j 18:29	6°♋56'55	
max. Earth dist.	-8648 Sep 01 j 03:13	8°♋43'20	11.20397 AU
conjunction	-8648 Sep 02 j 01:40	8°♋49'51	2°25'02
minimum elong	-8648 Sep 02 j 01:38	8°♋49'51	2°25'35
morning rise	-8648 Sep 18 j 08:22	10°♋42'45	
retrograde	-8648 Dec 28 j 01:51	17°♋37'31	
opposition	-8647 Mar 09 j 01:33	14°♋20'39	2°59'16
min. Earth dist.	-8647 Mar 09 j 21:58	14°♋16'56	9.16227 AU
direct	-8647 May 19 j 04:44	11°♋02'39	
evening set	-8647 Aug 27 j 19:31	17°♋59'20	
max. Earth dist.	-8647 Sep 12 j 02:46	19°♋46'27	11.10986 AU
conjunction	-8647 Sep 13 j 02:28	19°♋53'25	2°27'43
minimum elong	-8647 Sep 13 j 02:28	19°♋53'26	2°28'15
morning rise	-8647 Sep 29 j 10:06	21°♋47'47	
retrograde	-8646 Jan 09 j 02:07	28°♋51'04	
opposition	-8646 Mar 21 j 02:56	25°♋32'51	2°59'31
min. Earth dist.	-8646 Mar 21 j 23:52	25°♋29'00	9.05486 AU
direct	-8646 May 30 j 19:02	22°♋14'35	
evening set	-8646 Sep 08 j 01:16	29°♋16'02	
	-8646 Sep 14 j 07:12	0°♌	
max. Earth dist.	-8646 Sep 23 j 10:20	1°♌05'04	10.99039 AU
conjunction	-8646 Sep 24 j 09:21	1°♌11'56	2°24'46
minimum elong	-8646 Sep 24 j 09:23	1°♌11'56	2°25'16
morning rise	-8646 Oct 10 j 18:56	3°♌08'23	
retrograde	-8645 Jan 21 j 12:12	10°♌21'45	
opposition	-8645 Apr 02 j 10:55	7°♌01'56	2°52'44
min. Earth dist.	-8645 Apr 03 j 06:54	6°♌58'14	8.92348 AU
direct	-8645 Jun 11 j 12:47	3°♌43'12	
evening set	-8645 Sep 19 j 13:48	10°♌50'49	

Attention, astronomical year style is used: The year -8645 in astronomical counting style is the year 8646 BCE in historical counting style.

max. Earth dist.	-8645 Oct 05 j 02:05	12°♌42'28	10.84895 AU	
conjunction	-8645 Oct 06 j 00:07	12°♌49'08	2°15'52	
minimum elong	-8645 Oct 06 j 00:10	12°♌49'09	2°16'20	
morning rise	-8645 Oct 22 j 12:46	14°♌48'18		
	-8645 Oct 24 j 04:24	15°♌		
retrograde	-8644 Feb 03 j 07:50	22°♌13'15		
opposition	-8644 Apr 14 j 02:41	18°♌51'37	2°38'32	
min. Earth dist.	-8644 Apr 14 j 21:10	18°♌48'09	8.77211 AU	
direct	-8644 Jun 22 j 12:29	15°♌32'11		
evening set	-8644 Sep 30 j 11:04	22°♌47'27		
max. Earth dist.	-8644 Oct 16 j 03:20	24°♌42'14	10.69023 AU	
conjunction	-8644 Oct 17 j 00:40	24°♌48'47	2°00'53	
minimum elong	-8644 Oct 17 j 00:43	24°♌48'48	2°01'16	
morning rise	-8644 Nov 02 j 17:44	26°♌51'17		
	-8644 Nov 30 j 09:38	0°♍		
retrograde	-8643 Feb 15 j 15:24	4°♍29'07		
opposition	-8643 Apr 27 j 03:19	1°♍05'32	2°16'45	
min. Earth dist.	-8643 Apr 27 j 20:09	1°♍02'19	8.60633 AU	
	-8643 May 11 j 17:12	30°℞♌		
direct	-8643 Jul 04 j 19:38	27°♌45'11		
	-8643 Aug 25 j 08:04	0°♍		
evening set	-8643 Oct 12 j 18:55	5°♍09'29		
conjunction	-8643 Oct 29 j 12:55	7°♍14'22	1°39'51	
minimum elong	-8643 Oct 29 j 12:59	7°♍14'23	1°40'08	
max. Earth dist.	-8643 Oct 28 j 17:49	7°♍08'23	10.52071 AU	
morning rise	-8643 Nov 15 j 11:27	9°♍20'44		
retrograde	-8642 Mar 01 j 10:11	17°♍12'17		
opposition	-8642 May 10 j 13:19	13°♍46'42	1°47'31	
min. Earth dist.	-8642 May 11 j 03:37	13°♍43'56	8.43382 AU	
direct	-8642 Jul 17 j 11:31	10°♍25'14		
evening set	-8642 Oct 25 j 15:18	17°♍59'43		
conjunction	-8642 Nov 11 j 14:38	20°♍08'32	1°13'10	
minimum elong	-8642 Nov 11 j 14:42	20°♍08'33	1°13'19	
max. Earth dist.	-8642 Nov 10 j 23:44	20°♍03'47	10.34872 AU	
morning rise	-8642 Nov 28 j 19:06	22°♍19'02		
	-8641 Feb 21 j 19:07	0°♎		
retrograde	-8641 Mar 15 j 15:11	0°♎24'32		
	-8641 Apr 06 j 16:03	30°℞♍		
opposition	-8641 May 24 j 08:45	26°♍56'57	1°11'31	
min. Earth dist.	-8641 May 24 j 19:04	26°♍54'55	8.26373 AU	
direct	-8641 Jul 30 j 15:33	23°♍34'14		
	-8641 Oct 28 j 09:56	0°♎		
evening set	-8641 Nov 08 j 01:36	1°♎19'39		
conjunction	-8641 Nov 25 j 06:45	3°♎32'32	0°41'42	
minimum elong	-8641 Nov 25 j 06:47	3°♎32'33	0°41'43	
max. Earth dist.	-8641 Nov 24 j 21:34	3°♎29'34	10.18370 AU	
morning rise	-8641 Dec 12 j 17:20	5°♎47'16		
retrograde	-8640 Mar 29 j 08:26	14°♎06'09		
opposition	-8640 Jun 06 j 13:29	10°♎36'41	0°30'05	
min. Earth dist.	-8640 Jun 06 j 18:36	10°♎35'39	8.10582 AU	
direct	-8640 Aug 12 j 05:10	7°♎12'36		
evening set	-8640 Nov 21 j 02:39	15°♎09'12		
conjunction	-8640 Dec 08 j 13:37	17°♎26'02	0°06'54	
minimum elong	-8640 Dec 08 j 13:37	17°♎26'02	0°06'47	
behind sun begin	-8640 Dec 08 j 06:53	17°♎23'50		
behind sun end	-8640 Dec 08 j 20:22	17°♎28'14		
max. Earth dist.	-8640 Dec 08 j 10:40	17°♎25'05	10.03541 AU	
morning rise	-8640 Dec 26 j 06:08	19°♎44'46		
desc. node	-8639 Feb 19 j 00:07	25°♎50'26		
retrograde	-8639 Apr 13 j 11:32	28°♎15'27		
opposition	-8639 Jun 21 j 02:25	24°♎44'23	-0°14'41	
min. Earth dist.	-8639 Jun 21 j 01:56	24°♎44'29	7.96978 AU	
direct	-8639 Aug 26 j 04:29	21°♎18'54		
evening set	-8639 Dec 05 j 18:40	29°♎26'21		
	-8639 Dec 10 j 01:22	0°♏		
conjunction	-8639 Dec 23 j 10:55	1°♏46'39	-0°29'25	
minimum elong	-8639 Dec 23 j 10:53	1°♏46'38	0°29'40	
max. Earth dist.	-8639 Dec 23 j 14:12	1°♏47'44	9.91326 AU	
morning rise	-8638 Jan 10 j 08:35	4°♏08'47		
retrograde	-8638 Apr 28 j 21:30	12°♏48'38		
opposition	-8638 Jul 05 j 21:42	9°♏16'22	-0°59'53	
min. Earth dist.	-8638 Jul 05 j 16:07	9°♏17'32	7.86457 AU	
direct	-8638 Sep 09 j 13:40	5°♏49'28		
evening set	-8638 Dec 21 j 00:04	14°♏06'42		
	-8638 Dec 27 j 17:02	15°♏		
conjunction	-8637 Jan 07 j 20:43	16°♏29'39	-1°04'34	
minimum elong	-8637 Jan 07 j 20:39	16°♏29'38	1°04'56	
max. Earth dist.	-8637 Jan 08 j 06:17	16°♏32'52	9.82567 AU	
morning rise	-8637 Jan 25 j 22:17	18°♏54'15		
retrograde	-8637 May 14 j 10:52	27°♏39'38		
opposition	-8637 Jul 20 j 21:22	24°♏06'42	-1°42'06	
min. Earth dist.	-8637 Jul 20 j 11:12	24°♏08'50	7.79760 AU	
direct	-8637 Sep 24 j 09:00	20°♏38'30		
evening set	-8636 Jan 05 j 15:54	29°♏03'22		
	-8636 Jan 12 j 18:16	0°♐		
conjunction	-8636 Jan 23 j 15:51	1°♐27'57	-1°35'55	
minimum elong	-8636 Jan 23 j 15:46	1°♐27'56	1°36'23	
max. Earth dist.	-8636 Jan 24 j 07:19	1°♐33'10	9.77904 AU	
morning rise	-8636 Feb 10 j 19:50	3°♐53'50		
retrograde	-8636 May 28 j 22:51	12°♐40'24		
opposition	-8636 Aug 03 j 22:22	9°♐07'21	-2°17'50	
min. Earth dist.	-8636 Aug 03 j 08:29	9°♐10'16	7.77371 AU	
direct	-8636 Oct 08 j 10:54	5°♐38'02		
evening set	-8635 Jan 20 j 14:32	14°♐07'37		
conjunction	-8635 Feb 07 j 16:32	16°♐32'41	-2°00'56	
minimum elong	-8635 Feb 07 j 16:28	16°♐32'40	2°01'28	
max. Earth dist.	-8635 Feb 08 j 12:49	16°♐39'30	9.77682 AU	
morning rise	-8635 Feb 25 j 21:23	18°♐58'35		
retrograde	-8635 Jun 13 j 05:58	27°♐41'34		
opposition	-8635 Aug 18 j 21:37	24°♐08'59	-2°44'06	
min. Earth dist.	-8635 Aug 18 j 04:57	24°♐12'30	7.79443 AU	
direct	-8635 Oct 23 j 16:00	20°♐38'51		
evening set	-8634 Feb 05 j 14:48	29°♐09'35		
	-8634 Feb 11 j 23:48	0°♑		
conjunction	-8634 Feb 23 j 17:42	1°♑34'00	-2°17'40	
minimum elong	-8634 Feb 23 j 17:40	1°♑33'59	2°18'13	
max. Earth dist.	-8634 Feb 24 j 17:29	1°♑41'57	9.81902 AU	
morning rise	-8634 Mar 13 j 22:00	3°♑58'45		
retrograde	-8634 Jun 28 j 05:26	12°♑33'43		
opposition	-8634 Sep 02 j 16:25	9°♑02'08	-2°58'59	
min. Earth dist.	-8634 Sep 01 j 21:40	9°♑06'05	7.85796 AU	
direct	-8634 Nov 07 j 21:03	5°♑31'34		
evening set	-8633 Feb 21 j 11:17	13°♑59'39		
conjunction	-8633 Mar 11 j 14:07	16°♑22'26	-2°25'04	
minimum elong	-8633 Mar 11 j 14:07	16°♑22'26	2°25'37	
max. Earth dist.	-8633 Mar 12 j 16:02	16°♑31'00	9.90236 AU	
morning rise	-8633 Mar 29 j 16:49	18°♑45'02		
retrograde	-8633 Jul 12 j 18:44	27°♑08'24		
min. Earth dist.	-8633 Sep 16 j 08:18	23°♑42'27	7.95942 AU	
opposition	-8633 Sep 17 j 04:14	23°♑38'17	-3°01'50	
direct	-8633 Nov 22 j 22:31	20°♑07'40		
evening set	-8632 Mar 07 j 23:54	28°♑29'41		

Attention, astronomical year style is used: The year -8632 in astronomical counting style is the year 8633 BCE in historical counting style.

	-8632 Mar 19 j 16:03	0°♒	
conjunction	-8632 Mar 26 j 01:53	0°♒50'05	-2°23'06
minimum elong	-8632 Mar 26 j 01:55	0°♒50'06	2°23'37
max. Earth dist.	-8632 Mar 27 j 04:15	0°♒58'40	10.02063 AU
morning rise	-8632 Apr 13 j 02:13	3°♒09'50	
retrograde	-8632 Jul 25 j 20:58	11°♒19'06	
min. Earth dist.	-8632 Sep 29 j 11:23	7°♒54'54	8.09157 AU
opposition	-8632 Sep 30 j 07:12	7°♒50'48	-2°53'18
direct	-8632 Dec 06 j 18:00	4°♒20'34	
evening set	-8631 Mar 23 j 01:13	12°♒33'50	
conjunction	-8631 Apr 10 j 01:38	14°♒51'18	-2°12'34
minimum elong	-8631 Apr 10 j 01:42	14°♒51'19	2°13'02
max. Earth dist.	-8631 Apr 11 j 02:49	14°♒59'22	10.16562 AU
	-8631 Apr 11 j 04:47	15°♒	
morning rise	-8631 Apr 27 j 23:03	17°♒07'45	
retrograde	-8631 Aug 08 j 10:18	25°♒01'46	
min. Earth dist.	-8631 Oct 13 j 06:17	21°♒39'17	8.24575 AU
opposition	-8631 Oct 14 j 00:38	21°♒35'32	-2°34'59
direct	-8631 Dec 21 j 05:24	18°♒06'04	
evening set	-8630 Apr 06 j 13:03	26°♒08'44	
conjunction	-8630 Apr 24 j 11:11	28°♒22'58	-1°54'55
minimum elong	-8630 Apr 24 j 11:14	28°♒23'00	1°55'17
max. Earth dist.	-8630 Apr 25 j 09:48	28°♒30'05	10.32813 AU
	-8630 May 07 j 09:05	0°♓	
morning rise	-8630 May 12 j 05:15	0°♓35'54	
retrograde	-8630 Aug 21 j 11:08	8°♓14'41	
opposition	-8630 Oct 27 j 08:10	4°♓50'38	-2°08'58
min. Earth dist.	-8630 Oct 26 j 16:41	4°♓53'45	8.41286 AU
direct	-8629 Jan 04 j 06:53	1°♓22'14	
evening set	-8629 Apr 20 j 10:47	9°♓13'28	
conjunction	-8629 May 08 j 06:00	11°♓24'20	-1°31'49
minimum elong	-8629 May 08 j 06:04	11°♓24'21	1°32'04
max. Earth dist.	-8629 May 09 j 00:18	11°♓29'58	10.49893 AU
morning rise	-8629 May 25 j 20:33	13°♓33'42	
retrograde	-8629 Sep 03 j 00:44	20°♓58'08	
opposition	-8629 Nov 09 j 05:54	17°♓36'15	-1°37'30
min. Earth dist.	-8629 Nov 08 j 17:48	17°♓38'38	8.58396 AU
direct	-8628 Jan 17 j 21:43	14°♓09'09	
evening set	-8628 May 02 j 18:38	21°♓48'53	
conjunction	-8628 May 20 j 10:25	23°♓56'25	-1°05'00
minimum elong	-8628 May 20 j 10:27	23°♓56'25	1°05'07
max. Earth dist.	-8628 May 20 j 23:25	24°♓00'21	10.66920 AU
morning rise	-8628 Jun 06 j 21:12	26°♓02'22	
	-8628 Jul 13 j 08:49	0°♈	
retrograde	-8628 Sep 14 j 02:26	3°♈14'00	
	-8628 Nov 19 j 12:33	30°℞♓	
opposition	-8628 Nov 20 j 18:53	29°♓54'07	-1°02'43
min. Earth dist.	-8628 Nov 20 j 10:02	29°♓55'50	8.75059 AU
direct	-8627 Jan 30 j 03:57	26°♓28'26	
	-8627 Apr 08 j 15:55	0°♈	
evening set	-8627 May 15 j 13:23	3°♈57'15	
conjunction	-8627 Jun 02 j 01:21	6°♈01'34	-0°36'05
minimum elong	-8627 Jun 02 j 01:22	6°♈01'34	0°36'05
max. Earth dist.	-8627 Jun 02 j 09:27	6°♈03'59	10.83092 AU
morning rise	-8627 Jun 19 j 08:03	8°♈04'18	
retrograde	-8627 Sep 25 j 21:28	15°♈05'07	
opposition	-8627 Dec 03 j 00:07	11°♈46'59	-0°26'29
min. Earth dist.	-8627 Dec 02 j 18:26	11°♈48'04	8.90536 AU
direct	-8626 Feb 11 j 23:45	8°♈22'48	
evening set	-8626 May 27 j 20:28	15°♈41'38	
conjunction	-8626 Jun 14 j 04:22	17°♈43'01	-0°06'31
minimum elong	-8626 Jun 14 j 04:21	17°♈43'01	0°06'24
behind sun begin	-8626 Jun 13 j 21:40	17°♈41'04	
behind sun end	-8626 Jun 14 j 11:03	17°♈44'57	
max. Earth dist.	-8626 Jun 14 j 08:19	17°♈44'09	10.97724 AU
morning rise	-8626 Jul 01 j 06:46	19°♈42'50	
asc. node	-8626 Sep 05 j 05:03	25°♈42'14	
retrograde	-8626 Oct 07 j 10:15	26°♈34'56	
opposition	-8626 Dec 14 j 22:51	23°♈18'15	0°09'39
min. Earth dist.	-8626 Dec 14 j 21:27	23°♈18'31	9.04198 AU
direct	-8625 Feb 24 j 08:29	19°♈55'28	
evening set	-8625 Jun 08 j 17:25	27°♈05'41	
conjunction	-8625 Jun 25 j 20:58	29°♈04'26	0°22'41
minimum elong	-8625 Jun 25 j 20:57	29°♈04'26	0°22'54
max. Earth dist.	-8625 Jun 25 j 19:53	29°♈04'08	11.10234 AU
	-8625 Jul 03 j 20:19	0°♉	
morning rise	-8625 Jul 12 j 19:14	1°♉01'44	
retrograde	-8625 Oct 18 j 16:13	7°♉47'18	
opposition	-8625 Dec 26 j 16:30	4°♉31'47	0°44'25
min. Earth dist.	-8625 Dec 26 j 19:56	4°♉31'08	9.15504 AU
direct	-8624 Mar 07 j 11:01	1°♉10'14	
evening set	-8624 Jun 19 j 06:06	8°♉13'25	
conjunction	-8624 Jul 06 j 05:09	10°♉09'55	0°50'20
minimum elong	-8624 Jul 06 j 05:07	10°♉09'54	0°50'38
max. Earth dist.	-8624 Jul 05 j 22:14	10°♉07'55	11.20132 AU
morning rise	-8624 Jul 22 j 23:34	12°♉05'07	
	-8624 Aug 19 j 11:03	15°♉	
retrograde	-8624 Oct 28 j 19:23	18°♉46'26	
opposition	-8623 Jan 06 j 06:26	15°♉31'41	1°16'48
min. Earth dist.	-8623 Jan 06 j 14:05	15°♉30'16	9.24009 AU
	-8623 Jan 13 j 11:33	15°℞♉	
direct	-8623 Mar 19 j 07:06	12°♉11'15	
	-8623 May 20 j 07:05	15°♉	
evening set	-8623 Jun 30 j 12:08	19°♉09'04	
conjunction	-8623 Jul 17 j 07:02	21°♉03'46	1°15'43
minimum elong	-8623 Jul 17 j 06:59	21°♉03'46	1°16'06
max. Earth dist.	-8623 Jul 16 j 19:28	21°♉00'27	11.27065 AU
morning rise	-8623 Aug 02 j 21:52	22°♉57'22	
retrograde	-8623 Nov 08 j 21:21	29°♉36'44	
opposition	-8622 Jan 17 j 18:18	26°♉22'21	1°45'58
min. Earth dist.	-8622 Jan 18 j 05:00	26°♉20'24	9.29437 AU
direct	-8622 Mar 30 j 21:57	23°♉02'51	
evening set	-8622 Jul 11 j 13:14	29°♉56'59	
	-8622 Jul 12 j 00:01	0°♊	
conjunction	-8622 Jul 28 j 04:28	1°♊50'23	1°38'09
minimum elong	-8622 Jul 28 j 04:26	1°♊50'22	1°38'36
max. Earth dist.	-8622 Jul 27 j 13:51	1°♊46'12	11.30848 AU
morning rise	-8622 Aug 13 j 16:05	3°♊42'53	
retrograde	-8622 Nov 20 j 01:44	10°♊22'22	
opposition	-8621 Jan 29 j 05:34	7°♊08'02	2°11'11
min. Earth dist.	-8621 Jan 29 j 19:33	7°♊05'30	9.31670 AU
direct	-8621 Apr 11 j 09:02	3°♊49'14	
evening set	-8621 Jul 22 j 11:32	10°♊41'17	
conjunction	-8621 Aug 07 j 23:28	12°♊33'55	1°57'02
minimum elong	-8621 Aug 07 j 23:25	12°♊33'54	1°57'33
max. Earth dist.	-8621 Aug 07 j 05:12	12°♊28'41	11.31427 AU
morning rise	-8621 Aug 24 j 08:35	14°♊25'51	
retrograde	-8621 Dec 01 j 05:03	21°♊07'27	
opposition	-8620 Feb 09 j 17:37	17°♊52'45	2°31'49
min. Earth dist.	-8620 Feb 10 j 11:10	17°♊49'34	9.30700 AU
direct	-8620 Apr 21 j 16:36	14°♊34'22	
evening set	-8620 Aug 01 j 08:31	21°♊26'00	

Attention, astronomical year style is used: The year -8620 in astronomical counting style is the year 8621 BCE in historical counting style.

conjunction	-8620 Aug 17 j 17:47	23°♊18'20	2°11'49
minimum elong	-8620 Aug 17 j 17:44	23°♊18'19	2°12'22
max. Earth dist.	-8620 Aug 16 j 20:07	23°♊12'06	11.28842 AU
morning rise	-8620 Sep 03 j 01:21	25°♊10'16	
	-8620 Oct 22 j 18:06	0°♋	
retrograde	-8620 Dec 11 j 13:50	1°♋55'59	
	-8619 Feb 01 j 12:16	30°℞♊	
opposition	-8619 Feb 20 j 07:59	28°♊40'31	2°47'16
min. Earth dist.	-8619 Feb 21 j 03:39	28°♊36'57	9.26588 AU
direct	-8619 May 03 j 02:23	25°♊22'18	
	-8619 Jul 22 j 12:33	0°♋	
evening set	-8619 Aug 12 j 05:36	2°♋14'59	
conjunction	-8619 Aug 28 j 13:17	4°♋07'39	2°22'01
minimum elong	-8619 Aug 28 j 13:16	4°♋07'38	2°22'34
max. Earth dist.	-8619 Aug 27 j 14:28	4°♋01'02	11.23186 AU
morning rise	-8619 Sep 13 j 20:05	6°♋00'10	
retrograde	-8619 Dec 23 j 03:17	12°♋51'50	
opposition	-8618 Mar 04 j 01:48	9°♋35'16	2°56'57
min. Earth dist.	-8618 Mar 04 j 22:12	9°♋31'33	9.19460 AU
direct	-8618 May 14 j 11:20	6°♋17'00	
evening set	-8618 Aug 23 j 04:58	13°♋12'15	
conjunction	-8618 Sep 08 j 12:05	15°♋05'50	2°27'10
minimum elong	-8618 Sep 08 j 12:05	15°♋05'50	2°27'43
max. Earth dist.	-8618 Sep 07 j 12:47	14°♋59'01	11.14629 AU
morning rise	-8618 Sep 24 j 19:05	16°♋59'32	
retrograde	-8617 Jan 04 j 00:43	23°♋58'55	
opposition	-8617 Mar 16 j 00:20	20°♋40'59	3°00'19
min. Earth dist.	-8617 Mar 16 j 21:08	20°♋37'10	9.09536 AU
direct	-8617 May 25 j 23:08	17°♋22'25	
evening set	-8617 Sep 03 j 08:21	24°♋21'48	
conjunction	-8617 Sep 19 j 15:49	26°♋16'55	2°26'52
minimum elong	-8617 Sep 19 j 15:50	26°♋16'55	2°27'23
max. Earth dist.	-8617 Sep 18 j 15:26	26°♋09'42	11.03450 AU
morning rise	-8617 Oct 06 j 00:20	28°♋12'27	
	-8617 Oct 21 j 21:57	0°♌	
retrograde	-8616 Jan 16 j 05:48	5°♌21'14	
opposition	-8616 Mar 27 j 05:13	2°♌01'41	2°56'50
min. Earth dist.	-8616 Mar 28 j 02:25	1°♌57'46	8.97141 AU
	-8616 Apr 25 j 16:19	30°℞♋	
direct	-8616 Jun 05 j 13:39	28°♋42'38	
	-8616 Jul 15 j 06:53	0°♌	
evening set	-8616 Sep 13 j 17:23	5°♌47'37	
max. Earth dist.	-8616 Sep 29 j 02:24	7°♌37'39	10.90025 AU
conjunction	-8616 Sep 30 j 02:26	7°♌44'52	2°20'44
minimum elong	-8616 Sep 30 j 02:29	7°♌44'53	2°21'13
morning rise	-8616 Oct 16 j 13:43	9°♌42'52	
	-8616 Dec 07 j 20:08	15°♌	
retrograde	-8615 Jan 27 j 18:53	17°♌02'40	
	-8615 Mar 21 j 17:13	15°℞♌	
opposition	-8615 Apr 08 j 17:27	13°♌41'18	2°46'06
min. Earth dist.	-8615 Apr 09 j 13:46	13°♌37'30	8.82706 AU
direct	-8615 Jun 17 j 11:06	10°♌21'34	
	-8615 Sep 02 j 23:27	15°♌	
evening set	-8615 Sep 25 j 10:16	17°♌33'35	
conjunction	-8615 Oct 11 j 22:17	19°♌33'37	2°08'34
minimum elong	-8615 Oct 11 j 22:20	19°♌33'38	2°08'59
max. Earth dist.	-8615 Oct 11 j 00:29	19°♌26'58	10.74819 AU
morning rise	-8615 Oct 28 j 13:19	21°♌34'40	
retrograde	-8614 Feb 09 j 20:59	29°♌06'48	
opposition	-8614 Apr 21 j 13:44	25°♌43'30	2°27'48
min. Earth dist.	-8614 Apr 22 j 07:39	25°♌40'06	8.66760 AU
direct	-8614 Jun 29 j 15:48	22°♌22'57	

evening set	-8614 Oct 07 j 12:53	29°♌43'20	
	-8614 Oct 09 j 19:36	0°♍	
max. Earth dist.	-8614 Oct 23 j 10:10	1°♍40'51	10.58412 AU
conjunction	-8614 Oct 24 j 04:57	1°♍46'41	1°50'17
minimum elong	-8614 Oct 24 j 05:01	1°♍46'42	1°50'37
morning rise	-8614 Nov 10 j 00:48	3°♍51'20	
retrograde	-8613 Feb 23 j 10:52	11°♍36'47	
opposition	-8613 May 04 j 19:13	8°♍11'30	2°01'56
min. Earth dist.	-8613 May 05 j 09:35	8°♍08'44	8.49949 AU
direct	-8613 Jul 12 j 03:03	4°♍50'01	
evening set	-8613 Oct 20 j 03:07	12°♍19'57	
conjunction	-8613 Nov 05 j 24:00	14°♍27'02	1°26'07
minimum elong	-8613 Nov 06 j 00:03	14°♍27'04	1°26'20
max. Earth dist.	-8613 Nov 05 j 08:25	14°♍22'07	10.41513 AU
morning rise	-8613 Nov 23 j 01:32	16°♍35'42	
retrograde	-8612 Mar 08 j 11:55	24°♍35'00	
opposition	-8612 May 17 j 10:20	21°♍07'47	1°28'54
min. Earth dist.	-8612 May 17 j 20:57	21°♍05'42	8.33058 AU
direct	-8612 Jul 24 j 00:25	17°♍45'14	
evening set	-8612 Nov 01 j 06:46	25°♍25'41	
conjunction	-8612 Nov 18 j 09:06	27°♍36'46	0°56'42
minimum elong	-8612 Nov 18 j 09:09	27°♍36'47	0°56'48
max. Earth dist.	-8612 Nov 17 j 21:38	27°♍33'04	10.24953 AU
morning rise	-8612 Dec 05 j 16:55	29°♍49'38	
	-8612 Dec 07 j 01:54	0°♎	
retrograde	-8611 Mar 23 j 00:31	8°♎02'35	
opposition	-8611 May 31 j 10:53	4°♎33'36	0°49'43
min. Earth dist.	-8611 May 31 j 17:27	4°♎32'17	8.16979 AU
direct	-8611 Aug 06 j 08:27	1°♎09'51	
evening set	-8611 Nov 15 j 00:57	9°♎01'24	
conjunction	-8611 Dec 02 j 09:06	11°♎16'29	0°23'12
minimum elong	-8611 Dec 02 j 09:07	11°♎16'29	0°23'09
max. Earth dist.	-8611 Dec 02 j 03:02	11°♎14'30	10.09639 AU
morning rise	-8611 Dec 19 j 23:06	13°♎33'28	
retrograde	-8610 Apr 06 j 23:16	21°♎59'00	
opposition	-8610 Jun 14 j 20:16	18°♎28'30	0°06'08
min. Earth dist.	-8610 Jun 14 j 22:17	18°♎28'06	8.02650 AU
desc. node	-8610 Aug 05 j 02:41	15°♎16'25	
direct	-8610 Aug 20 j 03:35	15°♎03'33	
evening set	-8610 Nov 29 j 10:06	23°♎06'11	
conjunction	-8610 Dec 16 j 23:51	25°♎24'56	-0°12'46
minimum elong	-8610 Dec 16 j 23:50	25°♎24'56	0°12'57
behind sun begin	-8610 Dec 16 j 19:27	25°♎23'30	
behind sun end	-8610 Dec 17 j 04:13	25°♎26'22	
max. Earth dist.	-8610 Dec 17 j 00:31	25°♎25'10	9.96506 AU
morning rise	-8609 Jan 03 j 19:20	27°♎45'36	
	-8609 Jan 21 j 14:08	0°♏	
retrograde	-8609 Apr 22 j 05:51	6°♏21'38	
opposition	-8609 Jun 29 j 13:02	2°♏49'57	-0°39'17
min. Earth dist.	-8609 Jun 29 j 09:46	2°♏50'38	7.91004 AU
	-8609 Aug 09 j 02:23	30°℞♎	
direct	-8609 Sep 03 j 09:36	29°♎23'49	
	-8609 Sep 28 j 09:49	0°♏	
evening set	-8609 Dec 14 j 09:32	7°♏36'45	
conjunction	-8608 Jan 01 j 04:15	9°♏58'33	-0°48'45
minimum elong	-8608 Jan 01 j 04:12	9°♏58'32	0°49'04
max. Earth dist.	-8608 Jan 01 j 12:06	10°♏01'11	9.86463 AU
morning rise	-8608 Jan 19 j 04:10	12°♏22'06	
	-8608 Feb 08 j 23:45	15°♏	
retrograde	-8608 May 06 j 17:35	21°♏05'26	
opposition	-8608 Jul 13 j 11:11	17°♏33'02	-1°23'20

Attention, astronomical year style is used: The year -8608 in astronomical counting style is the year 8609 BCE in historical counting style.

min. Earth dist.	-8608 Jul 13 j 02:30	17°♏34'50	7.82875 AU	
	-8608 Aug 17 j 00:19	15°℞♏		
direct	-8608 Sep 17 j 01:12	14°♏05'45		
	-8608 Oct 17 j 15:56	15°♏		
evening set	-8608 Dec 28 j 21:13	22°♏27'18		
conjunction	-8607 Jan 15 j 19:52	24°♏51'13	-1°22'11	
minimum elong	-8607 Jan 15 j 19:47	24°♏51'12	1°22'37	
max. Earth dist.	-8607 Jan 16 j 10:29	24°♏56'09	9.80255 AU	
morning rise	-8607 Feb 02 j 22:48	27°♏16'34		
	-8607 Feb 24 j 09:42	0°♐		
retrograde	-8607 May 22 j 06:33	6°♐03'03		
opposition	-8607 Jul 28 j 12:05	2°♐30'25	-2°02'26	
min. Earth dist.	-8607 Jul 27 j 22:37	2°♐33'15	7.78860 AU	
	-8607 Aug 30 j 23:26	30°℞♏		
direct	-8607 Oct 01 j 23:39	29°♏02'08		
	-8607 Nov 02 j 15:40	0°♐		
evening set	-8606 Jan 13 j 17:38	7°♐29'41		
conjunction	-8606 Jan 31 j 18:52	9°♐54'34	-1°50'23	
minimum elong	-8606 Jan 31 j 18:47	9°♐54'33	1°50'53	
max. Earth dist.	-8606 Feb 01 j 15:15	10°♐01'26	9.78350 AU	
morning rise	-8606 Feb 18 j 23:14	12°♐20'27		
retrograde	-8606 Jun 06 j 16:56	21°♐05'23		
opposition	-8606 Aug 12 j 12:32	17°♐33'03	-2°33'18	
min. Earth dist.	-8606 Aug 11 j 19:26	17°♐36'40	7.79240 AU	
direct	-8606 Oct 17 j 02:36	14°♐03'55		
evening set	-8605 Jan 29 j 17:48	22°♐34'05		
conjunction	-8605 Feb 16 j 20:24	24°♐58'47	-2°11'04	
minimum elong	-8605 Feb 16 j 20:20	24°♐58'45	2°11'37	
max. Earth dist.	-8605 Feb 17 j 20:53	25°♐06'59	9.80868 AU	
morning rise	-8605 Mar 07 j 00:47	27°♐23'58		
	-8605 Mar 27 j 13:36	0°♑		
retrograde	-8605 Jun 21 j 21:26	6°♑02'42		
opposition	-8605 Aug 27 j 09:43	2°♑31'11	-2°53'30	
min. Earth dist.	-8605 Aug 26 j 14:37	2°♑35'12	7.83916 AU	
	-8605 Sep 29 j 22:41	30°℞♐		
direct	-8605 Nov 01 j 07:21	29°♐01'25		
	-8605 Dec 03 j 13:41	0°♑		
evening set	-8604 Feb 14 j 16:29	7°♑30'32		
conjunction	-8604 Mar 03 j 19:23	9°♑53'59	-2°22'47	
minimum elong	-8604 Mar 03 j 19:22	9°♑53'58	2°23'21	
max. Earth dist.	-8604 Mar 04 j 21:36	10°♑02'41	9.87513 AU	
morning rise	-8604 Mar 21 j 22:43	12°♑17'28		
retrograde	-8604 Jul 05 j 16:40	20°♑46'03		
min. Earth dist.	-8604 Sep 09 j 05:35	17°♑19'51	7.92391 AU	
opposition	-8604 Sep 10 j 00:51	17°♑15'48	-3°01'49	
direct	-8604 Nov 15 j 10:31	13°♑45'47		
evening set	-8603 Mar 01 j 09:16	22°♑10'29		
conjunction	-8603 Mar 19 j 11:35	24°♑31'53	-2°25'02	
minimum elong	-8603 Mar 19 j 11:36	24°♑31'53	2°25'34	
max. Earth dist.	-8603 Mar 20 j 13:19	24°♑40'19	9.97663 AU	
morning rise	-8603 Apr 06 j 12:59	26°♑52'52		
	-8603 May 02 j 01:23	0°♒		
retrograde	-8603 Jul 20 j 00:40	5°♒08'32		
opposition	-8603 Sep 24 j 08:04	1°♒39'59	-2°58'21	
min. Earth dist.	-8603 Sep 23 j 13:31	1°♒43'50	8.04000 AU	
	-8603 Oct 15 j 07:13	30°℞♑		
direct	-8603 Nov 30 j 09:50	28°♑10'05		
	-8602 Jan 15 j 02:33	0°♒		
evening set	-8602 Mar 16 j 16:15	6°♒27'30		
conjunction	-8602 Apr 03 j 17:16	8°♒46'16	-2°18'15	
minimum elong	-8602 Apr 03 j 17:18	8°♒46'17	2°18'44	
max. Earth dist.	-8602 Apr 04 j 17:18	8°♒54'01	10.10643 AU	
morning rise	-8602 Apr 21 j 16:07	11°♒04'13		
	-8602 May 25 j 02:38	15°♒		
retrograde	-8602 Aug 02 j 18:39	19°♒05'19		
opposition	-8602 Oct 08 j 06:15	15°♒38'40	-2°44'16	
min. Earth dist.	-8602 Oct 07 j 12:50	15°♒42'15	8.18060 AU	
	-8602 Oct 16 j 04:01	15°℞♒		
direct	-8602 Dec 15 j 02:32	12°♒09'16		
	-8601 Feb 11 j 13:53	15°♒		
evening set	-8601 Mar 31 j 10:34	20°♒17'04		
conjunction	-8601 Apr 18 j 09:43	22°♒32'49	-2°03'38	
minimum elong	-8601 Apr 18 j 09:47	22°♒32'50	2°04'02	
max. Earth dist.	-8601 Apr 19 j 07:11	22°♒39'37	10.25707 AU	
morning rise	-8601 May 06 j 05:35	24°♒47'24		
	-8601 Jun 22 j 19:35	0°♓		
retrograde	-8601 Aug 16 j 00:44	2°♓33'24		
	-8601 Oct 11 j 01:59	30°℞♒		
opposition	-8601 Oct 21 j 18:35	29°♒08'43	-2°21'29	
min. Earth dist.	-8601 Oct 21 j 02:40	29°♒11'56	8.33771 AU	
direct	-8601 Dec 29 j 09:18	25°♒40'05		
	-8600 Mar 12 j 23:40	0°♓		
evening set	-8600 Apr 13 j 15:18	3°♓36'56		
conjunction	-8600 May 01 j 12:00	5°♓49'26	-1°42'47	
minimum elong	-8600 May 01 j 12:04	5°♓49'27	1°43'04	
max. Earth dist.	-8600 May 02 j 06:20	5°♓55'08	10.41990 AU	
morning rise	-8600 May 19 j 04:23	8°♓00'31		
retrograde	-8600 Aug 27 j 20:17	15°♓31'48		
opposition	-8600 Nov 02 j 21:03	12°♓09'05	-1°52'13	
min. Earth dist.	-8600 Nov 02 j 07:36	12°♓11'45	8.50264 AU	
direct	-8599 Jan 11 j 05:17	8°♓41'28		
evening set	-8599 Apr 27 j 05:58	16°♓26'53		
conjunction	-8599 May 14 j 23:37	18°♓36'04	-1°17'25	
minimum elong	-8599 May 14 j 23:40	18°♓36'05	1°17'36	
max. Earth dist.	-8599 May 15 j 14:25	18°♓40'35	10.58612 AU	
morning rise	-8599 Jun 01 j 12:09	20°♓43'41		
retrograde	-8599 Sep 09 j 04:28	28°♓01'29		
opposition	-8599 Nov 15 j 14:30	24°♓40'38	-1°18'41	
min. Earth dist.	-8599 Nov 15 j 04:38	24°♓42'34	8.66705 AU	
direct	-8598 Jan 24 j 15:16	21°♓14'11		
evening set	-8598 May 10 j 06:55	28°♓48'23		
	-8598 May 20 j 07:55	0°♈		
conjunction	-8598 May 27 j 20:53	0°♈54'19	-0°49'16	
minimum elong	-8598 May 27 j 20:56	0°♈54'20	0°49'19	
max. Earth dist.	-8598 May 28 j 07:01	0°♈57'22	10.74761 AU	
morning rise	-8598 Jun 14 j 05:27	2°♈58'39		
retrograde	-8598 Sep 21 j 02:40	10°♈04'44		
opposition	-8598 Nov 27 j 23:35	6°♈45'35	-0°42'52	
min. Earth dist.	-8598 Nov 27 j 17:56	6°♈46'40	8.82335 AU	
direct	-8597 Feb 06 j 15:53	3°♈20'22		
evening set	-8597 May 22 j 19:35	10°♈44'11		
conjunction	-8597 Jun 09 j 05:27	12°♈47'04	-0°19'48	
minimum elong	-8597 Jun 09 j 05:27	12°♈47'04	0°19'44	
max. Earth dist.	-8597 Jun 09 j 09:57	12°♈48'23	10.89731 AU	
morning rise	-8597 Jun 26 j 09:59	14°♈48'22		
retrograde	-8597 Oct 02 j 16:48	21°♈44'44		
opposition	-8597 Dec 10 j 01:16	18°♈27'01	-0°06'29	
min. Earth dist.	-8597 Dec 09 j 23:24	18°♈27'22	8.96498 AU	
asc. node	-8596 Feb 15 j 04:56	15°♈03'52		
direct	-8596 Feb 19 j 06:34	15°♈03'04		
evening set	-8596 Jun 02 j 21:20	22°♈17'42		
conjunction	-8596 Jun 20 j 02:54	24°♈17'49	0°09'46	

Attention, astronomical year style is used: The year -8596 in astronomical counting style is the year 8597 BCE in historical counting style.

minimum elong	-8596 Jun	20 j 02:53	24°♈17'49	0°09'57
behind sun begin	-8596 Jun	19 j 21:09	24°♈16'09	
behind sun end	-8596 Jun	20 j 08:37	24°♈19'28	
max. Earth dist.	-8596 Jun	20 j 02:22	24°♈17'40	11.02927 AU
morning rise	-8596 Jul	07 j 03:20	26°♈16'26	
	-8596 Aug	11 j 16:39	0°♉	
retrograde	-8596 Oct	13 j 01:10	3°♉05'18	
	-8596 Dec	18 j 09:08	30°℞♈	
opposition	-8596 Dec	20 j 21:19	29°♈48'44	0°29'05
min. Earth dist.	-8596 Dec	20 j 22:37	29°♈48'30	9.08652 AU
direct	-8595 Mar	02 j 13:40	26°♈26'02	
	-8595 May	11 j 16:20	0°♉	
evening set	-8595 Jun	14 j 13:41	3°♉32'54	
conjunction	-8595 Jul	01 j 14:58	5°♉30'35	0°38'12
minimum elong	-8595 Jul	01 j 14:56	5°♉30'34	0°38'27
max. Earth dist.	-8595 Jul	01 j 10:47	5°♉29'22	11.13875 AU
morning rise	-8595 Jul	18 j 11:13	7°♉26'53	
retrograde	-8595 Oct	24 j 07:28	14°♉10'29	
opposition	-8594 Jan	01 j 13:05	10°♉54'48	1°02'43
min. Earth dist.	-8594 Jan	01 j 17:58	10°♉53'54	9.18386 AU
direct	-8594 Mar	14 j 11:59	7°♉33'17	
evening set	-8594 Jun	25 j 22:43	14°♉33'55	
	-8594 Jun	29 j 19:00	15°♉	
conjunction	-8594 Jul	12 j 19:43	16°♉29'36	1°04'43
minimum elong	-8594 Jul	12 j 19:41	16°♉29'35	1°05'03
max. Earth dist.	-8594 Jul	12 j 11:33	16°♉27'14	11.22225 AU
morning rise	-8594 Jul	29 j 12:08	18°♉24'03	
retrograde	-8594 Nov	04 j 09:17	25°♉04'32	
opposition	-8593 Jan	13 j 01:54	21°♉49'26	1°33'27
min. Earth dist.	-8593 Jan	13 j 11:04	21°♉47'45	9.25401 AU
direct	-8593 Mar	26 j 04:01	18°♉28'56	
evening set	-8593 Jul	07 j 02:08	25°♉25'02	
conjunction	-8593 Jul	23 j 19:01	27°♉19'08	1°28'34
minimum elong	-8593 Jul	23 j 18:58	27°♉19'07	1°29'00
max. Earth dist.	-8593 Jul	23 j 06:00	27°♉15'24	11.27733 AU
morning rise	-8593 Aug	09 j 08:11	29°♉12'13	
	-8593 Aug	16 j 12:24	0°♊	
retrograde	-8593 Nov	15 j 11:33	5°♊51'45	
opposition	-8592 Jan	24 j 13:22	2°♊36'55	2°00'32
min. Earth dist.	-8592 Jan	25 j 01:47	2°♊34'39	9.29476 AU
	-8592 Mar	05 j 22:58	30°℞♉	
direct	-8592 Apr	05 j 17:25	29°♉17'18	
	-8592 May	06 j 01:56	0°♊	
evening set	-8592 Jul	17 j 01:33	6°♊10'28	
conjunction	-8592 Aug	02 j 14:53	8°♊03'29	1°49'07
minimum elong	-8592 Aug	02 j 14:50	8°♊03'28	1°49'37
max. Earth dist.	-8592 Aug	01 j 22:47	7°♊58'53	11.30232 AU
morning rise	-8592 Aug	19 j 01:13	9°♊55'43	
retrograde	-8592 Nov	25 j 14:55	16°♊36'22	
opposition	-8591 Feb	04 j 00:56	13°♊21'28	2°23'17
min. Earth dist.	-8591 Feb	04 j 15:27	13°♊18'50	9.30480 AU
direct	-8591 Apr	17 j 03:11	10°♊02'35	
evening set	-8591 Jul	27 j 22:50	16°♊54'25	
conjunction	-8591 Aug	13 j 09:22	18°♊46'53	2°05'47
minimum elong	-8591 Aug	13 j 09:19	18°♊46'52	2°06'20
max. Earth dist.	-8591 Aug	12 j 15:28	18°♊41'44	11.29643 AU
morning rise	-8591 Aug	29 j 17:30	20°♊38'47	
retrograde	-8591 Dec	06 j 23:07	27°♊22'32	
opposition	-8590 Feb	15 j 14:06	24°♊07'15	2°41'05
min. Earth dist.	-8590 Feb	16 j 06:42	24°♊04'14	9.28383 AU
direct	-8590 Apr	28 j 11:37	20°♊48'53	
evening set	-8590 Aug	07 j 19:45	27°♊40'57	

max. Earth dist.	-8590 Aug	23 j 07:36	29°♊27'30	11.25982 AU
conjunction	-8590 Aug	24 j 04:07	29°♊33'25	2°18'04
minimum elong	-8590 Aug	24 j 04:05	29°♊33'25	2°18'38
	-8590 Aug	28 j 00:10	0°♋	
morning rise	-8590 Sep	09 j 11:05	1°♋25'36	
retrograde	-8590 Dec	18 j 09:28	8°♋14'18	
opposition	-8589 Feb	27 j 06:14	4°♋58'19	2°53'21
min. Earth dist.	-8589 Feb	28 j 01:14	4°♋54'52	9.23236 AU
direct	-8589 May	09 j 18:28	1°♋40'13	
evening set	-8589 Aug	18 j 18:04	8°♋34'06	
max. Earth dist.	-8589 Sep	03 j 02:32	10°♋20'33	11.19353 AU
conjunction	-8589 Sep	04 j 01:08	10°♋27'08	2°25'30
minimum elong	-8589 Sep	04 j 01:07	10°♋27'08	2°26'03
morning rise	-8589 Sep	20 j 07:59	12°♋20'11	
retrograde	-8589 Dec	30 j 02:44	19°♋15'41	
opposition	-8588 Mar	10 j 02:34	15°♋58'41	2°59'32
min. Earth dist.	-8588 Mar	10 j 22:51	15°♋54'59	9.15184 AU
direct	-8588 May	20 j 06:09	12°♋40'35	
evening set	-8588 Aug	28 j 19:25	19°♋37'46	
max. Earth dist.	-8588 Sep	13 j 03:50	21°♋25'21	11.09952 AU
conjunction	-8588 Sep	14 j 02:30	21°♋32'01	2°27'37
minimum elong	-8588 Sep	14 j 02:30	21°♋32'01	2°28'10
morning rise	-8588 Sep	30 j 10:10	23°♋26'32	
	-8588 Dec	16 j 00:34	0°♌	
retrograde	-8587 Jan	10 j 04:15	0°♌30'33	
	-8587 Feb	04 j 16:26	30°℞♋	
opposition	-8587 Mar	22 j 04:27	27°♋12'13	2°59'05
min. Earth dist.	-8587 Mar	23 j 00:18	27°♋08'34	9.04470 AU
direct	-8587 May	31 j 19:45	23°♋53'56	
	-8587 Aug	31 j 23:35	0°♌	
evening set	-8587 Sep	09 j 01:35	0°♌55'49	
max. Earth dist.	-8587 Sep	24 j 11:45	2°♌45'17	10.98056 AU
conjunction	-8587 Sep	25 j 09:50	2°♌51'52	2°24'05
minimum elong	-8587 Sep	25 j 09:52	2°♌51'53	2°24'36
morning rise	-8587 Oct	11 j 19:31	4°♌48'30	
retrograde	-8586 Jan	22 j 14:33	12°♌02'37	
opposition	-8586 Apr	03 j 13:00	8°♌42'41	2°51'35
min. Earth dist.	-8586 Apr	04 j 08:02	8°♌39'09	8.91416 AU
direct	-8586 Jun	12 j 13:30	5°♌23'56	
evening set	-8586 Sep	20 j 14:43	12°♌31'58	
max. Earth dist.	-8586 Oct	06 j 03:10	14°♌23'49	10.84039 AU
conjunction	-8586 Oct	07 j 01:10	14°♌30'28	2°14'37
minimum elong	-8586 Oct	07 j 01:13	14°♌30'29	2°15'03
	-8586 Oct	11 j 02:49	15°♌	
morning rise	-8586 Oct	23 j 14:10	16°♌29'49	
retrograde	-8585 Feb	04 j 11:18	23°♌55'24	
opposition	-8585 Apr	16 j 05:09	20°♌33'41	2°36'39
min. Earth dist.	-8585 Apr	16 j 23:26	20°♌30'15	8.76438 AU
direct	-8585 Jun	24 j 13:25	17°♌14'13	
evening set	-8585 Oct	02 j 12:27	24°♌29'49	
max. Earth dist.	-8585 Oct	18 j 05:12	26°♌24'50	10.68356 AU
conjunction	-8585 Oct	19 j 02:14	26°♌31'19	1°59'03
minimum elong	-8585 Oct	19 j 02:18	26°♌31'20	1°59'25
morning rise	-8585 Nov	04 j 19:43	28°♌34'00	
	-8585 Nov	16 j 22:54	0°♍	
retrograde	-8584 Feb	17 j 17:38	6°♍12'18	
opposition	-8584 Apr	28 j 06:05	2°♍48'39	2°14'10
min. Earth dist.	-8584 Apr	28 j 22:55	2°♍45'26	8.60061 AU
	-8584 Jun	10 j 23:50	30°℞♌	
direct	-8584 Jul	05 j 21:13	29°♌28'15	
	-8584 Jul	30 j 10:13	0°♍	

Attention, astronomical year style is used: The year -8584 in astronomical counting style is the year 8585 BCE in historical counting style.

evening set	-8584 Oct 13 j 20:35	6°♑52'48	
conjunction	-8584 Oct 30 j 14:57	8°♑57'50	1°37'31
minimum elong	-8584 Oct 30 j 15:01	8°♑57'51	1°37'46
max. Earth dist.	-8584 Oct 29 j 21:01	8°♑52'13	10.51598 AU
morning rise	-8584 Nov 16 j 13:47	11°♑04'20	
retrograde	-8583 Mar 02 j 11:48	18°♑56'17	
opposition	-8583 May 11 j 16:17	15°♑30'37	1°44'21
min. Earth dist.	-8583 May 12 j 06:00	15°♑27'58	8.42997 AU
direct	-8583 Jul 18 j 15:16	12°♑09'09	
evening set	-8583 Oct 26 j 17:25	19°♑43'47	
conjunction	-8583 Nov 12 j 17:10	21°♑52'45	1°10'25
minimum elong	-8583 Nov 12 j 17:13	21°♑52'46	1°10'33
max. Earth dist.	-8583 Nov 12 j 03:33	21°♑48'25	10.34570 AU
morning rise	-8583 Nov 29 j 21:53	24°♑03'23	
	-8582 Jan 24 j 14:00	0°♎	
retrograde	-8582 Mar 16 j 18:58	2°♎09'10	
	-8582 May 08 j 11:32	30°℞♑	
opposition	-8582 May 25 j 11:46	28°♑41'32	1°07'53
min. Earth dist.	-8582 May 25 j 21:05	28°♑39'42	8.26154 AU
direct	-8582 Jul 31 j 17:59	25°♑18'50	
	-8582 Oct 14 j 15:13	0°♎	
evening set	-8582 Nov 09 j 04:13	3°♎04'21	
conjunction	-8582 Nov 26 j 09:42	5°♎17'22	0°38'39
minimum elong	-8582 Nov 26 j 09:44	5°♎17'23	0°38'40
max. Earth dist.	-8582 Nov 26 j 01:07	5°♎14'35	10.18226 AU
morning rise	-8582 Dec 13 j 20:34	7°♎32'12	
retrograde	-8581 Mar 31 j 13:27	15°♎51'12	
opposition	-8581 Jun 08 j 16:32	12°♎21'45	0°26'11
min. Earth dist.	-8581 Jun 08 j 20:49	12°♎20'53	8.10518 AU
direct	-8581 Aug 14 j 06:29	8°♎57'41	
evening set	-8581 Nov 23 j 05:41	16°♎54'22	
conjunction	-8581 Dec 10 j 16:48	19°♎11'15	0°03'44
minimum elong	-8581 Dec 10 j 16:48	19°♎11'15	0°03'37
behind sun begin	-8581 Dec 10 j 09:37	19°♎08'55	
behind sun end	-8581 Dec 10 j 23:59	19°♎13'35	
max. Earth dist.	-8581 Dec 10 j 13:42	19°♎10'16	10.03555 AU
morning rise	-8581 Dec 28 j 09:36	21°♎30'02	
desc. node	-8580 Jan 18 j 17:00	24°♎08'37	
	-8580 Apr 11 j 00:52	0°♏	
retrograde	-8580 Apr 14 j 16:14	0°♏00'43	
	-8580 Apr 18 j 07:19	30°℞♎	
opposition	-8580 Jun 22 j 05:28	26°♎29'41	-0°18'37
min. Earth dist.	-8580 Jun 22 j 04:45	26°♎29'49	7.97075 AU
direct	-8580 Aug 27 j 06:40	23°♎04'12	
	-8580 Nov 27 j 14:43	0°♏	
evening set	-8580 Dec 06 j 21:58	1°♏11'42	
conjunction	-8580 Dec 24 j 14:18	3°♏31'59	-0°32'30
minimum elong	-8580 Dec 24 j 14:16	3°♏31'59	0°32'45
max. Earth dist.	-8580 Dec 24 j 17:07	3°♏32'56	9.91508 AU
morning rise	-8579 Jan 11 j 12:14	5°♏54'08	
retrograde	-8579 Apr 30 j 01:14	14°♏33'47	
opposition	-8579 Jul 07 j 00:39	11°♏01'35	-1°03'35
min. Earth dist.	-8579 Jul 06 j 19:23	11°♏02'40	7.86723 AU
direct	-8579 Sep 10 j 17:15	7°♏34'41	
	-8579 Dec 15 j 12:12	15°♏	
evening set	-8579 Dec 22 j 03:33	15°♏51'51	
conjunction	-8578 Jan 09 j 00:17	18°♏14'46	-1°07'21
minimum elong	-8578 Jan 09 j 00:13	18°♏14'45	1°07'44
max. Earth dist.	-8578 Jan 09 j 09:22	18°♏17'49	9.82914 AU
morning rise	-8578 Jan 27 j 02:02	20°♏39'18	
retrograde	-8578 May 15 j 13:05	29°♏24'18	
opposition	-8578 Jul 21 j 23:59	25°♏51'27	-1°45'18
min. Earth dist.	-8578 Jul 21 j 14:21	25°♏53'28	7.80186 AU
direct	-8578 Sep 25 j 12:30	22°♏23'15	
	-8578 Dec 31 j 16:46	0°♐	
evening set	-8577 Jan 06 j 19:26	0°♐47'57	
conjunction	-8577 Jan 24 j 19:25	3°♐12'28	-1°38'13
minimum elong	-8577 Jan 24 j 19:20	3°♐12'26	1°38'41
max. Earth dist.	-8577 Jan 25 j 10:35	3°♐17'34	9.78396 AU
morning rise	-8577 Feb 11 j 23:25	5°♐38'13	
retrograde	-8577 May 31 j 00:02	14°♐24'13	
min. Earth dist.	-8577 Aug 05 j 10:57	10°♐54'07	7.77932 AU
opposition	-8577 Aug 06 j 00:33	10°♐51'15	-2°20'18
direct	-8577 Oct 10 j 13:43	7°♐21'57	
evening set	-8576 Jan 22 j 17:46	15°♐51'13	
conjunction	-8576 Feb 09 j 19:49	18°♐16'11	-2°02'34
minimum elong	-8576 Feb 09 j 19:45	18°♐16'09	2°03'07
max. Earth dist.	-8576 Feb 10 j 16:08	18°♐23'01	9.78296 AU
morning rise	-8576 Feb 28 j 00:33	20°♐41'56	
retrograde	-8576 Jun 14 j 07:03	29°♐24'13	
opposition	-8576 Aug 19 j 23:15	25°♐51'42	-2°45'41
min. Earth dist.	-8576 Aug 19 j 06:28	25°♐55'15	7.80108 AU
direct	-8576 Oct 24 j 18:15	22°♐21'35	
	-8575 Jan 31 j 01:30	0°♑	
evening set	-8575 Feb 06 j 17:35	0°♑51'54	
conjunction	-8575 Feb 24 j 20:34	3°♑16'11	-2°18'34
minimum elong	-8575 Feb 24 j 20:32	3°♑16'10	2°19'08
max. Earth dist.	-8575 Feb 25 j 20:40	3°♑24'14	9.82600 AU
morning rise	-8575 Mar 15 j 00:42	5°♑40'45	
retrograde	-8575 Jun 29 j 06:32	14°♑14'56	
opposition	-8575 Sep 03 j 17:27	10°♑43'25	-2°59'35
min. Earth dist.	-8575 Sep 02 j 22:21	10°♑47'27	7.86514 AU
direct	-8575 Nov 08 j 22:46	7°♑12'51	
evening set	-8574 Feb 22 j 13:38	15°♑40'28	
conjunction	-8574 Mar 12 j 16:31	18°♑03'07	-2°25'12
minimum elong	-8574 Mar 12 j 16:30	18°♑03'07	2°25'45
max. Earth dist.	-8574 Mar 13 j 18:49	18°♑11'48	9.90959 AU
morning rise	-8574 Mar 30 j 18:58	20°♑25'32	
retrograde	-8574 Jul 13 j 19:44	28°♑48'05	
min. Earth dist.	-8574 Sep 17 j 08:41	25°♑22'12	7.96654 AU
opposition	-8574 Sep 18 j 04:39	25°♑18'01	-3°01'30
direct	-8574 Nov 23 j 23:54	21°♑47'24	
	-8573 Mar 08 j 21:28	0°♒	
evening set	-8573 Mar 10 j 01:34	0°♒08'57	
conjunction	-8573 Mar 28 j 03:32	2°♒29'12	-2°22'30
minimum elong	-8573 Mar 28 j 03:33	2°♒29'12	2°23'01
max. Earth dist.	-8573 Mar 29 j 06:03	2°♒37'49	10.02755 AU
morning rise	-8573 Apr 15 j 03:38	4°♒48'46	
retrograde	-8573 Jul 27 j 20:55	12°♒57'17	
min. Earth dist.	-8573 Oct 01 j 11:54	9°♒33'02	8.09813 AU
opposition	-8573 Oct 02 j 07:10	9°♒29'03	-2°52'07
direct	-8573 Dec 08 j 18:34	5°♒58'47	
evening set	-8572 Mar 24 j 02:07	14°♒11'34	
	-8572 Mar 30 j 11:39	15°♒	
conjunction	-8572 Apr 11 j 02:27	16°♒28'55	-2°11'20
minimum elong	-8572 Apr 11 j 02:30	16°♒28'57	2°11'47
max. Earth dist.	-8572 Apr 12 j 03:12	16°♒36'50	10.17172 AU
morning rise	-8572 Apr 28 j 23:44	18°♒45'14	
retrograde	-8572 Aug 09 j 09:58	26°♒38'35	
min. Earth dist.	-8572 Oct 14 j 06:53	23°♒15'56	8.25125 AU
opposition	-8572 Oct 15 j 00:08	23°♒12'25	-2°33'05
direct	-8572 Dec 22 j 05:00	19°♒42'53	

Attention, astronomical year style is used: The year -8571 in astronomical counting style is the year 8572 BCE in historical counting style.

evening set	-8571 Apr 07 j 13:23	27°♒45'11	
conjunction	-8571 Apr 25 j 11:22	29°♒59'19	-1°53'09
minimum elong	-8571 Apr 25 j 11:26	29°♒59'20	1°53'29
	-8571 Apr 25 j 13:32	0°♓	
max. Earth dist.	-8571 Apr 26 j 08:42	0°♓06'01	10.33291 AU
morning rise	-8571 May 13 j 05:25	2°♓12'08	
retrograde	-8571 Aug 22 j 10:11	9°♓50'22	
opposition	-8571 Oct 28 j 07:16	6°♓26'23	-2°06'30
min. Earth dist.	-8571 Oct 27 j 16:41	6°♓29'18	8.41686 AU
direct	-8570 Jan 05 j 06:37	2°♓57'56	
evening set	-8570 Apr 21 j 10:35	10°♓48'53	
conjunction	-8570 May 09 j 05:39	12°♓59'40	-1°29'38
minimum elong	-8570 May 09 j 05:42	12°♓59'42	1°29'52
max. Earth dist.	-8570 May 09 j 22:25	13°♓04'51	10.50204 AU
morning rise	-8570 May 26 j 20:11	15°♓09'00	
retrograde	-8570 Sep 03 j 22:05	22°♓33'04	
opposition	-8570 Nov 10 j 04:49	19°♓11'12	-1°34'37
min. Earth dist.	-8570 Nov 09 j 16:50	19°♓13'34	8.58613 AU
direct	-8569 Jan 18 j 22:35	15°♓44'04	
evening set	-8569 May 04 j 17:49	23°♓23'37	
conjunction	-8569 May 22 j 09:34	25°♓31'06	-1°02'31
minimum elong	-8569 May 22 j 09:36	25°♓31'07	1°02'37
max. Earth dist.	-8569 May 22 j 22:00	25°♓34'52	10.67041 AU
morning rise	-8569 Jun 08 j 20:15	27°♓37'01	
	-8569 Jun 29 j 18:47	0°♈	
retrograde	-8569 Sep 16 j 01:32	4°♈48'32	
opposition	-8569 Nov 22 j 17:39	1°♈28'38	-0°59'33
min. Earth dist.	-8569 Nov 22 j 08:39	1°♈30'22	8.75075 AU
	-8569 Dec 12 j 10:52	30°℞♓	
direct	-8568 Feb 01 j 03:34	28°♓02'57	
	-8568 Mar 22 j 00:11	0°♈	
evening set	-8568 May 16 j 12:22	5°♈31'41	
conjunction	-8568 Jun 03 j 00:20	7°♈36'01	-0°33'26
minimum elong	-8568 Jun 03 j 00:21	7°♈36'01	0°33'24
max. Earth dist.	-8568 Jun 03 j 08:37	7°♈38'29	10.83008 AU
morning rise	-8568 Jun 20 j 06:49	9°♈38'44	
retrograde	-8568 Sep 26 j 20:56	16°♈39'34	
opposition	-8568 Dec 03 j 22:55	13°♈21'26	-0°23'10
min. Earth dist.	-8568 Dec 03 j 17:46	13°♈22'25	8.90348 AU
direct	-8567 Feb 12 j 21:23	9°♈57'13	
evening set	-8567 May 28 j 19:28	17°♈16'11	
conjunction	-8567 Jun 15 j 03:14	19°♈17'35	-0°03'48
minimum elong	-8567 Jun 15 j 03:13	19°♈17'34	0°03'40
behind sun begin	-8567 Jun 14 j 20:11	19°♈15'32	
behind sun end	-8567 Jun 15 j 10:15	19°♈19'37	
max. Earth dist.	-8567 Jun 15 j 06:55	19°♈18'37	10.97439 AU
morning rise	-8567 Jul 02 j 05:26	21°♈17'24	
asc. node	-8567 Aug 02 j 02:02	24°♈35'49	
retrograde	-8567 Oct 08 j 08:27	28°♈09'42	
opposition	-8567 Dec 15 j 22:01	24°♈53'02	0°13'00
min. Earth dist.	-8567 Dec 15 j 21:31	24°♈53'07	9.03827 AU
direct	-8566 Feb 25 j 07:45	21°♈30'13	
evening set	-8566 Jun 09 j 16:29	28°♈40'41	
	-8566 Jun 21 j 04:01	0°♉	
conjunction	-8566 Jun 26 j 19:43	0°♉39'27	0°25'23
minimum elong	-8566 Jun 26 j 19:42	0°♉39'26	0°25'37
max. Earth dist.	-8566 Jun 26 j 17:40	0°♉38'51	11.09780 AU
morning rise	-8566 Jul 13 j 17:56	2°♉36'47	
retrograde	-8566 Oct 19 j 15:30	9°♉22'43	
opposition	-8566 Dec 27 j 15:58	6°♉07'09	0°47'40
min. Earth dist.	-8566 Dec 27 j 19:35	6°♉06'29	9.14990 AU
direct	-8565 Mar 09 j 10:28	2°♉45'37	
evening set	-8565 Jun 21 j 05:17	9°♉49'06	
conjunction	-8565 Jul 08 j 04:09	11°♉45'38	0°52'55
minimum elong	-8565 Jul 08 j 04:06	11°♉45'38	0°53'14
max. Earth dist.	-8565 Jul 07 j 21:01	11°♉43'35	11.19561 AU
morning rise	-8565 Jul 24 j 22:27	13°♉40'53	
	-8565 Aug 05 j 20:35	15°♉	
retrograde	-8565 Oct 30 j 18:32	20°♉22'40	
opposition	-8564 Jan 08 j 06:09	17°♉07'51	1°19'51
min. Earth dist.	-8564 Jan 08 j 13:10	17°♉06'33	9.23393 AU
	-8564 Feb 08 j 18:26	15°℞♉	
direct	-8564 Mar 20 j 07:01	13°♉47'24	
	-8564 Apr 29 j 02:35	15°♉	
evening set	-8564 Jul 01 j 11:32	20°♉45'35	
conjunction	-8564 Jul 18 j 06:19	22°♉40'19	1°18'06
minimum elong	-8564 Jul 18 j 06:17	22°♉40'18	1°18'29
max. Earth dist.	-8564 Jul 17 j 19:34	22°♉37'14	11.26402 AU
morning rise	-8564 Aug 03 j 20:53	24°♉33'57	
	-8564 Oct 01 j 21:17	0°♊	
retrograde	-8564 Nov 09 j 23:00	1°♊13'49	
	-8564 Dec 20 j 00:45	30°℞♉	
opposition	-8563 Jan 18 j 18:32	27°♉59'24	1°48'42
min. Earth dist.	-8563 Jan 19 j 05:11	27°♉57'27	9.28727 AU
direct	-8563 Mar 31 j 22:10	24°♉39'53	
	-8563 Jun 28 j 02:56	0°♊	
evening set	-8563 Jul 12 j 12:59	1°♊34'23	
conjunction	-8563 Jul 29 j 03:59	3°♊27'51	1°40'14
minimum elong	-8563 Jul 29 j 03:56	3°♊27'50	1°40'42
max. Earth dist.	-8563 Jul 28 j 13:16	3°♊23'38	11.30087 AU
morning rise	-8563 Aug 14 j 15:24	5°♊20'25	
retrograde	-8563 Nov 21 j 01:12	12°♊00'29	
opposition	-8562 Jan 30 j 06:27	8°♊46'05	2°13'31
min. Earth dist.	-8562 Jan 30 j 21:01	8°♊43'26	9.30867 AU
direct	-8562 Apr 12 j 07:36	5°♊27'16	
evening set	-8562 Jul 23 j 11:40	12°♊19'47	
conjunction	-8562 Aug 08 j 23:19	14°♊12'27	1°58'44
minimum elong	-8562 Aug 08 j 23:17	14°♊12'26	1°59'15
max. Earth dist.	-8562 Aug 08 j 04:29	14°♊07'03	11.30574 AU
morning rise	-8562 Aug 25 j 08:27	16°♊04'29	
retrograde	-8562 Dec 02 j 06:30	22°♊46'48	
opposition	-8561 Feb 10 j 19:00	19°♊32'01	2°33'39
min. Earth dist.	-8561 Feb 11 j 12:37	19°♊28'49	9.29808 AU
direct	-8561 Apr 23 j 18:29	16°♊13'36	
evening set	-8561 Aug 03 j 09:00	23°♊05'43	
conjunction	-8561 Aug 19 j 18:12	24°♊58'10	2°13'04
minimum elong	-8561 Aug 19 j 18:10	24°♊58'10	2°13'37
max. Earth dist.	-8561 Aug 18 j 21:03	24°♊52'05	11.27901 AU
morning rise	-8561 Sep 05 j 01:42	26°♊50'13	
	-8561 Oct 05 j 02:52	0°♋	
retrograde	-8561 Dec 13 j 15:38	3°♋36'41	
opposition	-8560 Feb 22 j 09:55	0°♋21'08	2°48'31
min. Earth dist.	-8560 Feb 23 j 04:50	0°♋17'42	9.25608 AU
	-8560 Feb 27 j 06:41	30°℞♊	
direct	-8560 May 04 j 03:26	27°♊02'56	
	-8560 Jul 05 j 23:15	0°♋	
evening set	-8560 Aug 13 j 06:37	3°♋56'07	
conjunction	-8560 Aug 29 j 14:20	5°♋48'55	2°22'45
minimum elong	-8560 Aug 29 j 14:18	5°♋48'54	2°23'18
max. Earth dist.	-8560 Aug 28 j 16:15	5°♋42'30	11.22165 AU
morning rise	-8560 Sep 14 j 21:01	7°♋41'33	
retrograde	-8560 Dec 24 j 07:15	14°♋34'02	

Attention, astronomical year style is used: The year -8559 in astronomical counting style is the year 8560 BCE in historical counting style.

opposition	-8559 Mar 05 j 04:31	11°♋17'24	2°57'33
min. Earth dist.	-8559 Mar 06 j 00:27	11°♋13'46	9.18411 AU
direct	-8559 May 15 j 13:20	7°♋59'07	
evening set	-8559 Aug 24 j 06:36	14°♋54'55	
conjunction	-8559 Sep 09 j 13:39	16°♋48'39	2°27'20
minimum elong	-8559 Sep 09 j 13:39	16°♋48'39	2°27'53
max. Earth dist.	-8559 Sep 08 j 14:07	16°♋41'45	11.13562 AU
morning rise	-8559 Sep 25 j 20:47	18°♋42'31	
retrograde	-8558 Jan 05 j 04:10	25°♋42'43	
opposition	-8558 Mar 17 j 03:54	22°♋24'42	3°00'11
min. Earth dist.	-8558 Mar 18 j 00:57	22°♋20'50	9.08459 AU
direct	-8558 May 27 j 00:26	19°♋06'07	
evening set	-8558 Sep 04 j 10:31	26°♋06'02	
conjunction	-8558 Sep 20 j 18:02	28°♋01'19	2°26'25
minimum elong	-8558 Sep 20 j 18:04	28°♋01'19	2°26'56
max. Earth dist.	-8558 Sep 19 j 17:40	27°♋54'05	11.02377 AU
morning rise	-8558 Oct 07 j 02:51	29°♋57'02	
	-8558 Oct 07 j 13:03	0°♌	
retrograde	-8557 Jan 17 j 08:37	7°♌06'41	
opposition	-8557 Mar 29 j 09:22	3°♌47'00	2°55'56
min. Earth dist.	-8557 Mar 30 j 06:32	3°♌43'05	8.96072 AU
direct	-8557 Jun 07 j 17:03	0°♌27'54	
evening set	-8557 Sep 15 j 20:08	7°♌33'25	
max. Earth dist.	-8557 Oct 01 j 06:27	9°♌23'57	10.88972 AU
conjunction	-8557 Oct 02 j 05:27	9°♌30'52	2°19'40
minimum elong	-8557 Oct 02 j 05:29	9°♌30'53	2°20'08
morning rise	-8557 Oct 18 j 16:55	11°♌29'04	
	-8557 Nov 19 j 18:46	15°♌	
retrograde	-8556 Jan 30 j 00:41	18°♌49'41	
opposition	-8556 Apr 09 j 22:03	15°♌28'11	2°44'25
min. Earth dist.	-8556 Apr 10 j 17:31	15°♌24'32	8.81677 AU
	-8556 Apr 16 j 04:54	15°℞♌	
direct	-8556 Jun 18 j 15:37	12°♌08'25	
	-8556 Aug 17 j 02:07	15°♌	
evening set	-8556 Sep 26 j 13:37	19°♌20'54	
max. Earth dist.	-8556 Oct 12 j 05:12	21°♌14'48	10.73826 AU
conjunction	-8556 Oct 13 j 01:58	21°♌21'08	2°06'51
minimum elong	-8556 Oct 13 j 02:01	21°♌21'09	2°07'16
morning rise	-8556 Oct 29 j 17:14	23°♌22'24	
	-8555 Jan 08 j 12:06	0°♍	
retrograde	-8555 Feb 11 j 03:00	0°♍55'18	
	-8555 Mar 17 j 06:35	30°℞♌	
opposition	-8555 Apr 22 j 18:59	27°♌31'51	2°25'20
min. Earth dist.	-8555 Apr 23 j 11:46	27°♌28'40	8.65814 AU
direct	-8555 Jun 30 j 19:10	24°♌11'16	
	-8555 Sep 25 j 19:05	0°♍	
evening set	-8555 Oct 08 j 16:52	1°♍32'04	
conjunction	-8555 Oct 25 j 09:13	3°♍35'37	1°47'59
minimum elong	-8555 Oct 25 j 09:16	3°♍35'38	1°48'18
max. Earth dist.	-8555 Oct 24 j 14:36	3°♍29'50	10.57530 AU
morning rise	-8555 Nov 11 j 05:29	5°♍40'29	
retrograde	-8554 Feb 24 j 16:48	13°♍26'37	
opposition	-8554 May 06 j 00:56	10°♍01'12	1°58'46
min. Earth dist.	-8554 May 06 j 14:49	9°♍58'30	8.49133 AU
direct	-8554 Jul 13 j 07:40	6°♍39'38	
evening set	-8554 Oct 21 j 07:49	14°♍09'57	
conjunction	-8554 Nov 07 j 04:58	16°♍17'14	1°23'18
minimum elong	-8554 Nov 07 j 05:02	16°♍17'15	1°23'30
max. Earth dist.	-8554 Nov 06 j 13:19	16°♍12'17	10.40783 AU
morning rise	-8554 Nov 24 j 07:02	18°♍26'06	
retrograde	-8553 Mar 10 j 18:27	26°♍25'54	

opposition	-8553 May 19 j 16:15	22°♍58'35	1°25'09
min. Earth dist.	-8553 May 20 j 02:57	22°♍56'29	8.32412 AU
direct	-8553 Jul 26 j 05:22	19°♍35'56	
evening set	-8553 Nov 03 j 11:58	27°♍16'42	
conjunction	-8553 Nov 20 j 14:40	29°♍27'57	0°53'30
minimum elong	-8553 Nov 20 j 14:42	29°♍27'58	0°53'34
max. Earth dist.	-8553 Nov 20 j 03:42	29°♍24'25	10.24406 AU
	-8553 Nov 24 j 18:15	0°♎	
morning rise	-8553 Dec 07 j 22:53	1°♎41'00	
retrograde	-8552 Mar 24 j 06:52	9°♎54'17	
opposition	-8552 Jun 01 j 16:58	6°♎25'12	0°45'34
min. Earth dist.	-8552 Jun 01 j 23:26	6°♎23'55	8.16533 AU
direct	-8552 Aug 07 j 14:00	3°♎01'23	
evening set	-8552 Nov 16 j 06:30	10°♎53'09	
conjunction	-8552 Dec 03 j 15:04	13°♎08'21	0°19'46
minimum elong	-8552 Dec 03 j 15:05	13°♎08'22	0°19'42
max. Earth dist.	-8552 Dec 03 j 10:12	13°♎06'46	10.09298 AU
morning rise	-8552 Dec 21 j 05:20	15°♎25'28	
retrograde	-8551 Apr 08 j 04:49	23°♎51'10	
opposition	-8551 Jun 16 j 02:17	20°♎20'34	0°01'49
min. Earth dist.	-8551 Jun 16 j 03:43	20°♎20'17	8.02421 AU
desc. node	-8551 Jul 01 j 05:54	19°♎08'23	
direct	-8551 Aug 21 j 10:14	16°♎55'33	
evening set	-8551 Nov 30 j 16:07	24°♎58'18	
conjunction	-8551 Dec 18 j 06:15	27°♎17'09	-0°16'12
minimum elong	-8551 Dec 18 j 06:14	27°♎17'09	0°16'24
max. Earth dist.	-8551 Dec 18 j 08:08	27°♎17'46	9.96381 AU
morning rise	-8550 Jan 05 j 01:53	29°♎37'51	
	-8550 Jan 07 j 22:28	0°♏	
retrograde	-8550 Apr 23 j 11:11	8°♏13'50	
opposition	-8550 Jun 30 j 18:44	4°♏42'05	-0°43'29
min. Earth dist.	-8550 Jun 30 j 14:35	4°♏42'56	7.90993 AU
direct	-8550 Sep 04 j 15:48	1°♏15'53	
evening set	-8550 Dec 15 j 15:51	9°♏28'50	
conjunction	-8549 Jan 02 j 10:47	11°♏50'40	-0°51'57
minimum elong	-8549 Jan 02 j 10:44	11°♏50'39	0°52'17
max. Earth dist.	-8549 Jan 02 j 19:22	11°♏53'32	9.86549 AU
morning rise	-8549 Jan 20 j 10:45	14°♏14'12	
	-8549 Jan 26 j 07:49	15°♏	
retrograde	-8549 May 08 j 22:53	22°♏57'16	
opposition	-8549 Jul 15 j 16:33	19°♏24'49	-1°27'06
min. Earth dist.	-8549 Jul 15 j 07:09	19°♏26'47	7.83069 AU
direct	-8549 Sep 19 j 05:53	15°♏57'30	
evening set	-8549 Dec 31 j 03:29	24°♏18'56	
conjunction	-8548 Jan 18 j 02:10	26°♏42'49	-1°24'57
minimum elong	-8548 Jan 18 j 02:05	26°♏42'47	1°25'23
max. Earth dist.	-8548 Jan 18 j 17:01	26°♏47'49	9.80541 AU
morning rise	-8548 Feb 05 j 05:07	29°♏08'05	
	-8548 Feb 11 j 20:20	0°♐	
retrograde	-8548 May 23 j 12:14	7°♐54'07	
opposition	-8548 Jul 29 j 17:01	4°♐21'30	-2°05'30
min. Earth dist.	-8548 Jul 29 j 03:21	4°♐24'22	7.79246 AU
direct	-8548 Oct 03 j 03:25	0°♐53'09	
evening set	-8547 Jan 14 j 23:45	9°♐20'30	
conjunction	-8547 Feb 02 j 00:56	11°♐45'17	-1°52'30
minimum elong	-8547 Feb 02 j 00:52	11°♐45'16	1°53'01
max. Earth dist.	-8547 Feb 02 j 21:00	11°♐52'03	9.78825 AU
morning rise	-8547 Feb 20 j 05:19	14°♐11'04	
retrograde	-8547 Jun 07 j 22:59	22°♐55'21	
opposition	-8547 Aug 13 j 16:56	19°♐23'05	-2°35'28
min. Earth dist.	-8547 Aug 13 j 00:13	19°♐26'37	7.79807 AU

Attention, astronomical year style is used: The year -8547 in astronomical counting style is the year 8548 BCE in historical counting style.

direct	-8547 Oct 18 j 07:03	15°♐53'54	
evening set	-8546 Jan 30 j 23:38	24°♐23'49	
conjunction	-8546 Feb 18 j 02:07	26°♐48'21	-2°12'25
minimum elong	-8546 Feb 18 j 02:04	26°♐48'20	2°12'58
max. Earth dist.	-8546 Feb 19 j 01:52	26°♐56'18	9.81522 AU
morning rise	-8546 Mar 08 j 06:30	29°♐13'24	
	-8546 Mar 14 j 05:56	0°♑	
retrograde	-8546 Jun 23 j 02:23	7°♑51'18	
opposition	-8546 Aug 28 j 13:35	4°♑19'54	-2°54'38
min. Earth dist.	-8546 Aug 27 j 19:07	4°♑23'47	7.84664 AU
direct	-8546 Nov 02 j 12:32	0°♑50'09	
evening set	-8545 Feb 15 j 21:43	9°♑18'50	
conjunction	-8545 Mar 06 j 00:28	11°♑42'05	-2°23'18
minimum elong	-8545 Mar 06 j 00:27	11°♑42'04	2°23'51
max. Earth dist.	-8545 Mar 07 j 01:55	11°♑50'31	9.88362 AU
morning rise	-8545 Mar 24 j 03:45	14°♑05'22	
retrograde	-8545 Jul 07 j 19:33	22°♑32'58	
min. Earth dist.	-8545 Sep 11 j 09:06	19°♑06'49	7.93342 AU
opposition	-8545 Sep 12 j 04:04	19°♑02'51	-3°01'54
direct	-8545 Nov 17 j 16:11	15°♑32'50	
evening set	-8544 Mar 02 j 13:37	23°♑56'51	
conjunction	-8544 Mar 20 j 15:51	26°♑18'02	-2°24'44
minimum elong	-8544 Mar 20 j 15:51	26°♑18'02	2°25'15
max. Earth dist.	-8544 Mar 21 j 16:58	26°♑26'15	9.98701 AU
morning rise	-8544 Apr 07 j 17:10	28°♑38'47	
	-8544 Apr 18 j 11:00	0°♒	
retrograde	-8544 Jul 21 j 01:07	6°♒53'19	
opposition	-8544 Sep 25 j 10:24	3°♒24'53	-2°57'27
min. Earth dist.	-8544 Sep 24 j 15:50	3°♒28'44	8.05088 AU
	-8544 Nov 22 j 02:31	30°℞♑	
direct	-8544 Dec 01 j 14:29	29°♑55'01	
	-8544 Dec 11 j 01:15	0°♒	
evening set	-8543 Mar 17 j 19:37	8°♒11'37	
conjunction	-8543 Apr 04 j 20:38	10°♒30'10	-2°17'13
minimum elong	-8543 Apr 04 j 20:40	10°♒30'11	2°17'41
max. Earth dist.	-8543 Apr 05 j 20:15	10°♒37'46	10.11747 AU
morning rise	-8543 Apr 22 j 19:21	12°♒47'52	
	-8543 May 10 j 19:53	15°♒	
retrograde	-8543 Aug 03 j 19:22	20°♒47'54	
opposition	-8543 Oct 09 j 07:47	17°♒21'22	-2°42'32
min. Earth dist.	-8543 Oct 08 j 14:13	17°♒24'58	8.19134 AU
	-8543 Nov 10 j 00:54	15°℞♒	
direct	-8543 Dec 16 j 04:43	13°♒52'01	
	-8542 Jan 21 j 06:02	15°♒	
evening set	-8542 Apr 01 j 13:04	21°♒59'03	
conjunction	-8542 Apr 19 j 12:12	24°♒14'37	-2°01'59
minimum elong	-8542 Apr 19 j 12:15	24°♒14'38	2°02'22
max. Earth dist.	-8542 Apr 20 j 09:37	24°♒21'24	10.26733 AU
morning rise	-8542 May 07 j 07:48	26°♒28'58	
	-8542 Jun 06 j 14:00	0°♓	
retrograde	-8542 Aug 17 j 02:24	4°♓14'05	
opposition	-8542 Oct 22 j 19:32	0°♓49'31	-2°19'05
min. Earth dist.	-8542 Oct 22 j 03:49	0°♓52'41	8.34717 AU
	-8542 Nov 02 j 03:25	30°℞♒	
direct	-8542 Dec 30 j 10:24	27°♒20'58	
	-8541 Feb 25 j 12:39	0°♓	
evening set	-8541 Apr 15 j 16:58	5°♓17'10	
conjunction	-8541 May 03 j 13:37	7°♓29'31	-1°40'37
minimum elong	-8541 May 03 j 13:41	7°♓29'32	1°40'54
max. Earth dist.	-8541 May 04 j 07:59	7°♓35'14	10.42850 AU
morning rise	-8541 May 21 j 05:44	9°♓40'26	
retrograde	-8541 Aug 29 j 20:42	17°♓11'02	
opposition	-8541 Nov 04 j 21:37	13°♓48'27	-1°49'18
min. Earth dist.	-8541 Nov 04 j 09:07	13°♓50'56	8.51020 AU
direct	-8540 Jan 13 j 06:26	10°♓20'53	
evening set	-8540 Apr 28 j 07:04	18°♓05'51	
conjunction	-8540 May 16 j 00:33	20°♓14'55	-1°14'54
minimum elong	-8540 May 16 j 00:37	20°♓14'56	1°15'04
max. Earth dist.	-8540 May 16 j 14:32	20°♓19'11	10.59254 AU
morning rise	-8540 Jun 02 j 12:57	22°♓22'25	
retrograde	-8540 Sep 10 j 04:23	29°♓39'46	
opposition	-8540 Nov 16 j 14:48	26°♓19'03	-1°15'25
min. Earth dist.	-8540 Nov 16 j 06:08	26°♓20'44	8.67230 AU
direct	-8539 Jan 25 j 16:23	22°♓52'39	
	-8539 May 07 j 12:47	0°♈	
evening set	-8539 May 11 j 07:45	0°♈26'36	
conjunction	-8539 May 28 j 21:27	2°♈32'27	-0°46'30
minimum elong	-8539 May 28 j 21:29	2°♈32'27	0°46'32
max. Earth dist.	-8539 May 29 j 06:02	2°♈35'01	10.75156 AU
morning rise	-8539 Jun 15 j 05:56	4°♈36'42	
retrograde	-8539 Sep 22 j 02:10	11°♈42'33	
opposition	-8539 Nov 28 j 23:49	8°♈23'29	-0°39'23
min. Earth dist.	-8539 Nov 28 j 18:42	8°♈24'28	8.82604 AU
direct	-8538 Feb 07 j 16:26	4°♈58'19	
evening set	-8538 May 23 j 20:09	12°♈22'04	
conjunction	-8538 Jun 10 j 05:49	14°♈24'54	-0°16'55
minimum elong	-8538 Jun 10 j 05:49	14°♈24'54	0°16'50
max. Earth dist.	-8538 Jun 10 j 09:21	14°♈25'56	10.89866 AU
morning rise	-8538 Jun 27 j 10:13	16°♈26'09	
retrograde	-8538 Oct 03 j 16:31	23°♈22'33	
opposition	-8538 Dec 11 j 01:39	20°♈04'52	-0°02'55
min. Earth dist.	-8538 Dec 10 j 23:36	20°♈05'15	8.96504 AU
asc. node	-8537 Jan 10 j 05:15	17°♈58'07	
direct	-8537 Feb 20 j 08:11	16°♈40'58	
evening set	-8537 Jun 04 j 21:43	23°♈55'40	
conjunction	-8537 Jun 22 j 03:12	25°♈55'46	0°12'40
minimum elong	-8537 Jun 22 j 03:11	25°♈55'46	0°12'51
behind sun begin	-8537 Jun 21 j 22:48	25°♈54'29	
behind sun end	-8537 Jun 22 j 07:35	25°♈57'02	
max. Earth dist.	-8537 Jun 22 j 02:50	25°♈55'39	11.02800 AU
morning rise	-8537 Jul 09 j 03:22	27°♈54'22	
	-8537 Jul 28 j 02:48	0°♉	
retrograde	-8537 Oct 15 j 03:08	4°♉43'26	
opposition	-8537 Dec 22 j 21:57	1°♉26'54	0°32'36
min. Earth dist.	-8537 Dec 22 j 23:37	1°♉26'35	9.08394 AU
	-8536 Jan 11 j 22:24	30°℞♈	
direct	-8536 Mar 03 j 13:53	28°♈04'14	
	-8536 Apr 23 j 01:21	0°♉	
evening set	-8536 Jun 15 j 14:17	5°♉11'17	
conjunction	-8536 Jul 02 j 15:22	7°♉09'00	0°41'01
minimum elong	-8536 Jul 02 j 15:20	7°♉08'59	0°41'17
max. Earth dist.	-8536 Jul 02 j 10:54	7°♉07'42	11.13484 AU
morning rise	-8536 Jul 19 j 11:22	9°♉05'19	
	-8536 Sep 23 j 21:21	15°♉	
retrograde	-8536 Oct 25 j 07:38	15°♉49'16	
	-8536 Nov 26 j 07:52	15°℞♉	
opposition	-8535 Jan 02 j 14:07	12°♉33'35	1°06'03
min. Earth dist.	-8535 Jan 02 j 20:02	12°♉32'30	9.17877 AU
direct	-8535 Mar 15 j 11:54	9°♉12'03	
	-8535 Jun 15 j 23:08	15°♉	
evening set	-8535 Jun 26 j 23:35	16°♉13'03	
conjunction	-8535 Jul 13 j 20:15	18°♉08'44	1°07'21

Attention, astronomical year style is used: The year -8535 in astronomical counting style is the year 8536 BCE in historical counting style.

minimum elong	-8535 Jul 13 j 20:12	18°♉08'43	1°07'43	
max. Earth dist.	-8535 Jul 13 j 10:55	18°♉06'03	1°07'43	11.21591 AU
morning rise	-8535 Jul 30 j 12:33	20°♉03'15		
retrograde	-8535 Nov 05 j 10:38	26°♉44'16		
opposition	-8534 Jan 14 j 03:29	23°♉29'07	1°36'31	
min. Earth dist.	-8534 Jan 14 j 13:04	23°♉27'21		9.24663 AU
direct	-8534 Mar 27 j 06:00	20°♉08'34		
evening set	-8534 Jul 08 j 03:07	27°♉05'06		
conjunction	-8534 Jul 24 j 19:46	28°♉59'15	1°30'56	
minimum elong	-8534 Jul 24 j 19:43	28°♉59'14	1°31'22	
max. Earth dist.	-8534 Jul 24 j 06:32	28°♉55'27		11.26882 AU
	-8534 Aug 02 j 15:46	0°♊		
morning rise	-8534 Aug 10 j 08:48	0°♊52'26		
retrograde	-8534 Nov 16 j 12:58	7°♊32'37		
opposition	-8533 Jan 25 j 15:24	4°♊17'40	2°03'14	
min. Earth dist.	-8533 Jan 26 j 03:22	4°♊15'29		9.28527 AU
direct	-8533 Apr 07 j 18:55	0°♊58'01		
evening set	-8533 Jul 19 j 02:52	7°♊51'41		
conjunction	-8533 Aug 04 j 16:07	9°♊44'48	1°51'07	
minimum elong	-8533 Aug 04 j 16:04	9°♊44'47	1°51'37	
max. Earth dist.	-8533 Aug 04 j 00:35	9°♊40'20		11.29181 AU
morning rise	-8533 Aug 21 j 02:13	11°♊37'07		
retrograde	-8533 Nov 27 j 18:55	18°♊18'32		
opposition	-8532 Feb 06 j 03:30	15°♊03'30	2°25'30	
min. Earth dist.	-8532 Feb 06 j 17:51	15°♊00'54		9.29346 AU
direct	-8532 Apr 18 j 05:31	11°♊44'33		
evening set	-8532 Jul 29 j 00:38	18°♊36'58		
conjunction	-8532 Aug 14 j 10:59	20°♊29'33	2°07'21	
minimum elong	-8532 Aug 14 j 10:57	20°♊29'33	2°07'54	
max. Earth dist.	-8532 Aug 13 j 16:51	20°♊24'20		11.28426 AU
morning rise	-8532 Aug 30 j 19:01	22°♊21'36		
retrograde	-8532 Dec 08 j 01:31	29°♊06'10		
opposition	-8531 Feb 16 j 17:26	25°♊50'45	2°42'44	
min. Earth dist.	-8531 Feb 17 j 10:35	25°♊47'38		9.27102 AU
direct	-8531 Apr 29 j 12:39	22°♊32'18		
evening set	-8531 Aug 08 j 21:59	29°♊25'00		
	-8531 Aug 14 j 01:00	0°♋		
max. Earth dist.	-8531 Aug 24 j 09:09	1°♋11'31		11.24644 AU
conjunction	-8531 Aug 25 j 06:10	1°♋17'36	2°19'07	
minimum elong	-8531 Aug 25 j 06:08	1°♋17'36	2°19'41	
morning rise	-8531 Sep 10 j 13:13	3°♋09'57		
retrograde	-8531 Dec 19 j 13:17	9°♋59'36		
opposition	-8530 Feb 28 j 10:17	6°♋43'27	2°54'21	
min. Earth dist.	-8530 Mar 01 j 05:20	6°♋39'59		9.21853 AU
direct	-8530 May 10 j 22:32	3°♋25'15		
evening set	-8530 Aug 19 j 20:47	10°♋19'47		
max. Earth dist.	-8530 Sep 04 j 06:01	12°♋06'37		11.17934 AU
conjunction	-8530 Sep 05 j 03:56	12°♋13'01	2°25'58	
minimum elong	-8530 Sep 05 j 03:56	12°♋13'01	2°26'31	
morning rise	-8530 Sep 21 j 10:50	14°♋06'16		
retrograde	-8530 Dec 31 j 07:43	21°♋02'45		
opposition	-8529 Mar 12 j 07:10	17°♋45'33	2°59'47	
min. Earth dist.	-8529 Mar 13 j 02:37	17°♋42'00		9.13738 AU
direct	-8529 May 22 j 09:34	14°♋27'23		
evening set	-8529 Aug 30 j 22:44	21°♋25'15		
max. Earth dist.	-8529 Sep 15 j 08:14	23°♋13'17		11.08489 AU
conjunction	-8529 Sep 16 j 06:00	23°♋19'42	2°27'29	
minimum elong	-8529 Sep 16 j 06:00	23°♋19'42	2°28'00	
morning rise	-8529 Oct 02 j 13:45	25°♋14'26		
	-8529 Nov 18 j 14:06	0°♌		
retrograde	-8528 Jan 12 j 10:00	2°♌19'30		

	-8528 Mar 09 j 20:04	30°℞♋		
opposition	-8528 Mar 23 j 09:50	29°♋00'58	2°58'33	
min. Earth dist.	-8528 Mar 24 j 04:54	28°♋57'28		9.03004 AU
direct	-8528 Jun 01 j 23:43	25°♋42'37		
	-8528 Aug 16 j 08:33	0°♌		
evening set	-8528 Sep 10 j 05:38	2°♌45'11		
conjunction	-8528 Sep 26 j 13:59	4°♌41'29	2°23'17	
minimum elong	-8528 Sep 26 j 14:01	4°♌41'30	2°23'46	
max. Earth dist.	-8528 Sep 25 j 15:56	4°♌34'54		10.96611 AU
morning rise	-8528 Oct 12 j 23:57	6°♌38'22		
retrograde	-8527 Jan 23 j 22:02	13°♌53'31		
opposition	-8527 Apr 04 j 19:17	10°♌33'25	2°50'12	
min. Earth dist.	-8527 Apr 05 j 14:09	10°♌29'54		8.90001 AU
direct	-8527 Jun 13 j 18:16	7°♌14'36		
evening set	-8527 Sep 21 j 19:28	14°♌23'18		
	-8527 Sep 26 j 22:32	15°♌		
max. Earth dist.	-8527 Oct 07 j 08:25	16°♌15'27		10.82692 AU
conjunction	-8527 Oct 08 j 06:07	16°♌22'02	2°13'07	
minimum elong	-8527 Oct 08 j 06:10	16°♌22'03	2°13'33	
morning rise	-8527 Oct 24 j 19:34	18°♌21'41		
retrograde	-8526 Feb 05 j 17:18	25°♌48'15		
opposition	-8526 Apr 17 j 12:10	22°♌26'22	2°34'26	
min. Earth dist.	-8526 Apr 18 j 06:14	22°♌22'58		8.75169 AU
direct	-8526 Jun 25 j 18:38	19°♌06'49		
evening set	-8526 Oct 03 j 17:55	26°♌23'03		
conjunction	-8526 Oct 20 j 08:09	28°♌24'48	1°56'54	
minimum elong	-8526 Oct 20 j 08:12	28°♌24'49	1°57'15	
max. Earth dist.	-8526 Oct 19 j 12:27	28°♌18'44		10.67195 AU
	-8526 Nov 02 j 06:26	0°♍		
morning rise	-8526 Nov 06 j 02:02	0°♍27'44		
retrograde	-8525 Feb 19 j 00:41	8°♍06'55		
opposition	-8525 Apr 30 j 13:35	4°♍43'05	2°11'09	
min. Earth dist.	-8525 May 01 j 05:32	4°♍40'02		8.59017 AU
direct	-8525 Jul 08 j 04:56	1°♍22'38		
evening set	-8525 Oct 16 j 02:48	8°♍47'39		
conjunction	-8525 Nov 01 j 21:38	10°♍52'55	1°34'45	
minimum elong	-8525 Nov 01 j 21:41	10°♍52'57	1°35'00	
max. Earth dist.	-8525 Nov 01 j 05:17	10°♍47'48		10.50676 AU
morning rise	-8525 Nov 18 j 20:46	12°♍59'39		
retrograde	-8524 Mar 03 j 21:01	20°♍52'17		
opposition	-8524 May 13 j 00:09	17°♍26'29	1°40'37	
min. Earth dist.	-8524 May 13 j 12:30	17°♍24'05		8.42200 AU
direct	-8524 Jul 19 j 22:07	14°♍04'59		
evening set	-8524 Oct 28 j 00:21	21°♍39'58		
max. Earth dist.	-8524 Nov 13 j 11:40	23°♍45'03		10.33892 AU
conjunction	-8524 Nov 14 j 00:29	23°♍49'08	1°07'09	
minimum elong	-8524 Nov 14 j 00:32	23°♍49'09	1°07'17	
morning rise	-8524 Dec 01 j 05:36	25°♍59'59		
	-8523 Jan 04 j 18:53	0°♎		
retrograde	-8523 Mar 18 j 05:02	4°♎06'17		
opposition	-8523 May 26 j 20:02	0°♎38'32	1°03'36	
min. Earth dist.	-8523 May 27 j 04:20	0°♎36'54		8.25597 AU
	-8523 Jun 04 j 00:23	30°℞♍		
direct	-8523 Aug 02 j 00:03	27°♍15'49		
	-8523 Sep 26 j 20:50	0°♎		
evening set	-8523 Nov 10 j 11:53	5°♎01'39		
conjunction	-8523 Nov 27 j 17:39	7°♎14'48	0°35'03	
minimum elong	-8523 Nov 27 j 17:41	7°♎14'49	0°35'03	
max. Earth dist.	-8523 Nov 27 j 09:06	7°♎12'02		10.17790 AU
morning rise	-8523 Dec 15 j 05:00	9°♎29'49		
retrograde	-8522 Apr 01 j 22:30	17°♎49'09		

Attention, astronomical year style is used: The year -8522 in astronomical counting style is the year 8523 BCE in historical counting style.

opposition	-8522 Jun 10 j 01:00	14°♎19'39	0°21'34	
min. Earth dist.	-8522 Jun 10 j 04:59	14°♎18'51	8.10203 AU	
direct	-8522 Aug 15 j 14:21	10°♎55'34		
evening set	-8522 Nov 24 j 14:03	18°♎52'30		
desc. node	-8522 Dec 11 j 08:31	21°♎03'57		
conjunction	-8522 Dec 12 j 01:26	21°♎09'31	-0°00'04	
minimum elong	-8522 Dec 12 j 01:25	21°♎09'30	0°00'13	
behind sun begin	-8522 Dec 11 j 18:14	21°♎07'10		
behind sun end	-8522 Dec 12 j 08:35	21°♎11'50		
max. Earth dist.	-8522 Dec 11 j 22:08	21°♎08'29	10.03361 AU	
morning rise	-8522 Dec 29 j 18:37	23°♎28'24		
	-8521 Feb 27 j 19:02	0°♏		
retrograde	-8521 Apr 17 j 00:41	1°♏59'11		
	-8521 Jun 05 j 03:37	30°℞♎		
opposition	-8521 Jun 24 j 13:56	28°♎28'10	-0°23'17	
min. Earth dist.	-8521 Jun 24 j 13:25	28°♎28'16	7.97007 AU	
direct	-8521 Aug 29 j 15:10	25°♎02'39		
	-8521 Nov 13 j 16:24	0°♏		
evening set	-8521 Dec 09 j 06:46	3°♏10'19		
conjunction	-8521 Dec 26 j 23:20	5°♏30'40	-0°36'08	
minimum elong	-8521 Dec 26 j 23:18	5°♏30'39	0°36'25	
max. Earth dist.	-8521 Dec 27 j 02:23	5°♏31'41	9.91565 AU	
morning rise	-8520 Jan 13 j 21:31	7°♏52'50		
	-8520 Mar 20 j 13:00	15°♏		
retrograde	-8520 May 01 j 09:19	16°♏32'22		
	-8520 Jun 12 j 16:31	15°℞♏		
opposition	-8520 Jul 08 j 09:03	13°♏00'14	-1°07'58	
min. Earth dist.	-8520 Jul 08 j 03:53	13°♏01'18	7.86913 AU	
direct	-8520 Sep 12 j 01:45	9°♏33'19		
	-8520 Nov 30 j 23:33	15°♏		
evening set	-8520 Dec 23 j 12:37	17°♏50'30		
conjunction	-8519 Jan 10 j 09:34	20°♏13'24	-1°10'38	
minimum elong	-8519 Jan 10 j 09:30	20°♏13'23	1°11'02	
max. Earth dist.	-8519 Jan 10 j 19:16	20°♏16'39	9.83224 AU	
morning rise	-8519 Jan 28 j 11:25	22°♏37'54		
	-8519 Apr 07 j 17:31	0°♐		
retrograde	-8519 May 16 j 21:01	1°♐22'32		
	-8519 Jun 25 j 08:01	30°℞♏		
opposition	-8519 Jul 23 j 08:01	27°♏49'45	-1°49'04	
min. Earth dist.	-8519 Jul 22 j 22:09	27°♏51'49	7.80625 AU	
direct	-8519 Sep 26 j 20:51	24°♏21'33		
	-8519 Dec 17 j 08:44	0°♐		
evening set	-8518 Jan 08 j 04:42	2°♐46'07		
conjunction	-8518 Jan 26 j 04:51	5°♐10'32	-1°40'54	
minimum elong	-8518 Jan 26 j 04:46	5°♐10'31	1°41'23	
max. Earth dist.	-8518 Jan 26 j 20:45	5°♐15'54	9.78943 AU	
morning rise	-8518 Feb 13 j 08:45	7°♐36'11		
retrograde	-8518 Jun 01 j 07:57	16°♐21'32		
opposition	-8518 Aug 07 j 08:00	12°♐48'40	-2°23'10	
min. Earth dist.	-8518 Aug 06 j 17:55	12°♐51'38	7.78591 AU	
direct	-8518 Oct 11 j 22:10	9°♐19'24		
evening set	-8517 Jan 24 j 02:49	17°♐48'22		
conjunction	-8517 Feb 11 j 04:55	20°♐13'11	-2°04'29	
minimum elong	-8517 Feb 11 j 04:51	20°♐13'09	2°05'02	
max. Earth dist.	-8517 Feb 12 j 01:59	20°♐20'15	9.79046 AU	
morning rise	-8517 Mar 01 j 09:26	22°♐38'44		
	-8517 May 09 j 10:47	0°♑		
retrograde	-8517 Jun 16 j 14:18	1°♑20'11		
	-8517 Jul 25 j 00:08	30°℞♐		
opposition	-8517 Aug 22 j 06:07	27°♐47'47	-2°47'29	
min. Earth dist.	-8517 Aug 21 j 12:48	27°♐51'26	7.80948 AU	
direct	-8517 Oct 27 j 02:06	24°♐17'42		
	-8516 Jan 17 j 21:13	0°♑		
evening set	-8516 Feb 09 j 02:00	2°♑47'32		
conjunction	-8516 Feb 27 j 04:59	5°♑11'38	-2°19'35	
minimum elong	-8516 Feb 27 j 04:56	5°♑11'37	2°20'09	
max. Earth dist.	-8516 Feb 28 j 05:37	5°♑19'51	9.83509 AU	
morning rise	-8516 Mar 16 j 08:52	7°♑35'58		
retrograde	-8516 Jun 30 j 12:48	16°♑09'10		
opposition	-8516 Sep 04 j 23:35	12°♑37'48	-3°00'14	
min. Earth dist.	-8516 Sep 04 j 04:28	12°♑41'49	7.87477 AU	
direct	-8516 Nov 10 j 05:40	9°♑07'15		
evening set	-8515 Feb 23 j 21:26	17°♑34'17		
conjunction	-8515 Mar 14 j 00:14	19°♑56'43	-2°25'18	
minimum elong	-8515 Mar 14 j 00:13	19°♑56'43	2°25'51	
max. Earth dist.	-8515 Mar 15 j 02:28	20°♑05'22	9.91960 AU	
morning rise	-8515 Apr 01 j 02:28	22°♑18'54		
	-8515 Jun 18 j 06:18	0°♒		
retrograde	-8515 Jul 15 j 01:10	0°♒40'22		
	-8515 Aug 10 j 21:52	30°℞♑		
opposition	-8515 Sep 19 j 10:02	27°♑10'28	-3°01'02	
min. Earth dist.	-8515 Sep 18 j 14:45	27°♑14'30	7.97671 AU	
direct	-8515 Nov 25 j 05:43	23°♑39'52		
	-8514 Feb 23 j 03:19	0°♒		
evening set	-8514 Mar 11 j 08:31	2°♒00'45		
conjunction	-8514 Mar 29 j 10:19	4°♒20'47	-2°21'45	
minimum elong	-8514 Mar 29 j 10:21	4°♒20'48	2°22'15	
max. Earth dist.	-8514 Mar 30 j 12:02	4°♒29'09	10.03775 AU	
morning rise	-8514 Apr 16 j 10:15	6°♒40'08		
retrograde	-8514 Jul 29 j 02:00	14°♒47'35		
opposition	-8514 Oct 03 j 11:56	11°♒19'29	-2°50'40	
min. Earth dist.	-8514 Oct 02 j 17:40	11°♒23'16	8.10814 AU	
direct	-8514 Dec 09 j 23:42	7°♒49'14		
	-8513 Mar 18 j 01:34	15°♒		
evening set	-8513 Mar 26 j 08:00	16°♒01'20		
conjunction	-8513 Apr 13 j 08:07	18°♒18'30	-2°09'50	
minimum elong	-8513 Apr 13 j 08:10	18°♒18'31	2°10'15	
max. Earth dist.	-8513 Apr 14 j 07:33	18°♒25'59	10.18140 AU	
morning rise	-8513 May 01 j 05:19	20°♒34'36		
retrograde	-8513 Aug 11 j 13:48	28°♒26'59		
min. Earth dist.	-8513 Oct 16 j 11:44	25°♒04'18	8.26044 AU	
opposition	-8513 Oct 17 j 04:12	25°♒00'56	-2°30'47	
direct	-8513 Dec 24 j 10:51	21°♒31'25		
evening set	-8512 Apr 08 j 18:20	29°♒33'04		
	-8512 Apr 12 j 09:40	0°♓		
conjunction	-8512 Apr 26 j 16:10	1°♓47'02	-1°51'02	
minimum elong	-8512 Apr 26 j 16:14	1°♓47'03	1°51'21	
max. Earth dist.	-8512 Apr 27 j 12:05	1°♓53'17	10.34146 AU	
morning rise	-8512 May 14 j 10:10	3°♓59'41		
retrograde	-8512 Aug 23 j 11:50	11°♓37'06		
opposition	-8512 Oct 29 j 10:37	8°♓13'12	-2°03'34	
min. Earth dist.	-8512 Oct 28 j 20:13	8°♓16'05	8.42458 AU	
direct	-8511 Jan 06 j 12:30	4°♓44'45		
evening set	-8511 Apr 22 j 14:44	12°♓35'10		
conjunction	-8511 May 10 j 09:43	14°♓45'49	-1°27'03	
minimum elong	-8511 May 10 j 09:47	14°♓45'50	1°27'16	
max. Earth dist.	-8511 May 11 j 01:46	14°♓50'45	10.50887 AU	
morning rise	-8511 May 28 j 00:05	16°♓54'58		
retrograde	-8511 Sep 05 j 00:48	24°♓18'27		
opposition	-8511 Nov 11 j 07:46	20°♓56'37	-1°31'13	
min. Earth dist.	-8511 Nov 10 j 19:46	20°♓58'59	8.59185 AU	
direct	-8510 Jan 20 j 02:41	17°♓29'30		
evening set	-8510 May 05 j 21:15	25°♓08'37		

Attention, astronomical year style is used: The year -8510 in astronomical counting style is the year 8511 BCE in historical counting style.

conjunction	-8510 May 23 j 12:55	27°♓16'00	-0°59'38
minimum elong	-8510 May 23 j 12:58	27°♓16'01	0°59'43
max. Earth dist.	-8510 May 24 j 01:24	27°♓19'47	10.67507 AU
morning rise	-8510 Jun 09 j 23:18	29°♓21'47	
	-8510 Jun 15 j 09:28	0°♈	
retrograde	-8510 Sep 17 j 04:43	6°♈32'54	
opposition	-8510 Nov 23 j 20:23	3°♈13'01	-0°55'53
min. Earth dist.	-8510 Nov 23 j 11:58	3°♈14'39	8.75424 AU
	-8509 Jan 17 j 05:25	30°℞♓	
direct	-8509 Feb 02 j 05:26	29°♓47'20	
	-8509 Feb 18 j 06:51	0°♈	
evening set	-8509 May 18 j 15:20	7°♈15'48	
conjunction	-8509 Jun 05 j 03:07	9°♈20'03	-0°30'22
minimum elong	-8509 Jun 05 j 03:09	9°♈20'03	0°30'20
max. Earth dist.	-8509 Jun 05 j 11:04	9°♈22'25	10.83241 AU
morning rise	-8509 Jun 22 j 09:21	11°♈22'41	
retrograde	-8509 Sep 28 j 22:36	18°♈23'19	
opposition	-8509 Dec 06 j 01:29	15°♈05'12	-0°19'21
min. Earth dist.	-8509 Dec 05 j 21:30	15°♈05'58	8.90467 AU
direct	-8508 Feb 15 j 00:42	11°♈40'57	
evening set	-8508 May 29 j 22:12	18°♈59'51	
conjunction	-8508 Jun 16 j 05:38	21°♈01'10	-0°00'37
minimum elong	-8508 Jun 16 j 05:37	21°♈01'10	0°00'28
behind sun begin	-8508 Jun 15 j 22:32	20°♈59'07	
behind sun end	-8508 Jun 16 j 12:42	21°♈03'14	
max. Earth dist.	-8508 Jun 16 j 08:02	21°♈01'49	10.97435 AU
asc. node	-8508 Jun 23 j 23:05	21°♈55'40	
morning rise	-8508 Jul 03 j 07:43	23°♈00'58	
retrograde	-8508 Oct 09 j 10:39	29°♈53'15	
opposition	-8508 Dec 17 j 00:34	26°♈36'35	0°16'48
min. Earth dist.	-8508 Dec 17 j 00:38	26°♈36'34	9.03714 AU
direct	-8507 Feb 26 j 10:52	23°♈13'45	
	-8507 Jun 07 j 05:11	0°♉	
evening set	-8507 Jun 10 j 19:03	0°♉24'17	
conjunction	-8507 Jun 27 j 22:00	2°♉23'02	0°28'28
minimum elong	-8507 Jun 27 j 21:59	2°♉23'01	0°28'42
max. Earth dist.	-8507 Jun 27 j 19:12	2°♉22'13	11.09552 AU
morning rise	-8507 Jul 14 j 20:02	4°♉20'21	
retrograde	-8507 Oct 20 j 17:01	11°♉06'30	
opposition	-8507 Dec 28 j 18:45	7°♉50'53	0°51'21
min. Earth dist.	-8507 Dec 28 j 22:03	7°♉50'16	9.14661 AU
direct	-8506 Mar 10 j 13:40	4°♉29'20	
evening set	-8506 Jun 22 j 07:48	11°♉33'01	
conjunction	-8506 Jul 09 j 06:30	13°♉29'32	0°55'51
minimum elong	-8506 Jul 09 j 06:28	13°♉29'32	0°56'10
max. Earth dist.	-8506 Jul 08 j 23:52	13°♉27'38	11.19139 AU
	-8506 Jul 22 j 09:04	15°♉	
morning rise	-8506 Jul 26 j 00:29	15°♉24'48	
retrograde	-8506 Oct 31 j 22:57	22°♉06'56	
opposition	-8505 Jan 09 j 09:18	18°♉52'04	1°23'17
min. Earth dist.	-8505 Jan 09 j 16:13	18°♉50'48	9.22894 AU
direct	-8505 Mar 22 j 10:17	15°♉31'37	
evening set	-8505 Jul 03 j 14:12	22°♉30'01	
conjunction	-8505 Jul 20 j 08:46	24°♉24'48	1°20'46
minimum elong	-8505 Jul 20 j 08:44	24°♉24'47	1°21'10
max. Earth dist.	-8505 Jul 19 j 22:07	24°♉21'45	11.25828 AU
morning rise	-8505 Aug 05 j 23:05	26°♉18'28	
	-8505 Sep 10 j 22:14	0°♊	
retrograde	-8505 Nov 12 j 01:30	2°♊58'46	
	-8504 Jan 17 j 07:52	30°℞♉	
opposition	-8504 Jan 20 j 22:07	29°♉44'16	1°51'46
min. Earth dist.	-8504 Jan 21 j 09:27	29°♉42'12	9.28094 AU
direct	-8504 Apr 01 j 23:54	26°♉24'44	
	-8504 Jun 11 j 16:32	0°♊	
evening set	-8504 Jul 13 j 15:58	3°♊19'33	
conjunction	-8504 Jul 30 j 06:37	5°♊13'02	1°42'33
minimum elong	-8504 Jul 30 j 06:34	5°♊13'01	1°43'01
max. Earth dist.	-8504 Jul 29 j 15:06	5°♊08'35	11.29377 AU
morning rise	-8504 Aug 15 j 17:56	7°♊05'39	
retrograde	-8504 Nov 22 j 05:00	13°♊46'18	
opposition	-8503 Jan 31 j 10:30	10°♊31'49	2°16'06
min. Earth dist.	-8503 Feb 01 j 01:24	10°♊29'07	9.30092 AU
direct	-8503 Apr 13 j 12:20	7°♊12'57	
evening set	-8503 Jul 24 j 14:52	14°♊05'52	
max. Earth dist.	-8503 Aug 09 j 07:33	15°♊53'13	11.29718 AU
conjunction	-8503 Aug 10 j 02:19	15°♊58'37	2°00'37
minimum elong	-8503 Aug 10 j 02:16	15°♊58'36	2°01'08
morning rise	-8503 Aug 26 j 11:19	17°♊50'43	
retrograde	-8503 Dec 03 j 10:50	24°♊33'44	
opposition	-8502 Feb 11 j 23:41	21°♊18'50	2°35'41
min. Earth dist.	-8502 Feb 12 j 16:40	21°♊15'46	9.28880 AU
direct	-8502 Apr 24 j 22:16	18°♊00'26	
evening set	-8502 Aug 04 j 12:30	24°♊53'00	
conjunction	-8502 Aug 20 j 21:41	26°♊45'33	2°14'26
minimum elong	-8502 Aug 20 j 21:38	26°♊45'33	2°14'59
max. Earth dist.	-8502 Aug 20 j 01:20	26°♊39'41	11.26891 AU
morning rise	-8502 Sep 06 j 05:01	28°♊37'43	
	-8502 Sep 18 j 14:48	0°♋	
retrograde	-8502 Dec 14 j 21:41	5°♋25'01	
opposition	-8501 Feb 23 j 15:15	2°♋09'22	2°49'53
min. Earth dist.	-8501 Feb 24 j 09:46	2°♋06'00	9.24527 AU
	-8501 Mar 28 j 00:07	30°℞♊	
direct	-8501 May 06 j 07:54	28°♊51'08	
	-8501 Jun 13 j 15:33	0°♋	
evening set	-8501 Aug 15 j 10:46	5°♋44'54	
conjunction	-8501 Aug 31 j 18:22	7°♋37'50	2°23'32
minimum elong	-8501 Aug 31 j 18:21	7°♋37'49	2°24'06
max. Earth dist.	-8501 Aug 30 j 20:03	7°♋31'20	11.21012 AU
morning rise	-8501 Sep 17 j 01:05	9°♋30'37	
retrograde	-8501 Dec 26 j 13:20	16°♋24'01	
opposition	-8500 Mar 06 j 10:36	13°♋07'17	2°58'10
min. Earth dist.	-8500 Mar 07 j 06:54	13°♋03'35	9.17198 AU
direct	-8500 May 16 j 17:15	9°♋49'00	
evening set	-8500 Aug 25 j 11:22	16°♋45'26	
conjunction	-8500 Sep 10 j 18:22	18°♋39'20	2°27'29
minimum elong	-8500 Sep 10 j 18:22	18°♋39'20	2°28'01
max. Earth dist.	-8500 Sep 09 j 18:25	18°♋32'18	11.12300 AU
morning rise	-8500 Sep 27 j 01:42	20°♋33'24	
retrograde	-8499 Jan 06 j 10:18	27°♋34'38	
opposition	-8499 Mar 18 j 10:53	24°♋16'30	2°59'59
min. Earth dist.	-8499 Mar 19 j 08:05	24°♋12'36	9.07149 AU
direct	-8499 May 28 j 06:31	20°♋57'53	
evening set	-8499 Sep 05 j 15:51	27°♋58'29	
conjunction	-8499 Sep 21 j 23:34	29°♋53'59	2°25'52
minimum elong	-8499 Sep 21 j 23:36	29°♋53'59	2°26'23
max. Earth dist.	-8499 Sep 20 j 23:59	29°♋46'58	11.01036 AU
	-8499 Sep 22 j 19:50	0°♌	
morning rise	-8499 Oct 08 j 08:35	1°♌49'56	
retrograde	-8498 Jan 18 j 17:27	9°♌00'41	
opposition	-8498 Mar 30 j 17:09	5°♌40'52	2°54'53
min. Earth dist.	-8498 Mar 31 j 13:33	5°♌37'05	8.94700 AU
direct	-8498 Jun 09 j 00:23	2°♌21'45	
evening set	-8498 Sep 17 j 02:20	9°♌27'57	

Attention, astronomical year style is used: The year -8498 in astronomical counting style is the year 8499 BCE in historical counting style.

conjunction	-8498 Oct 03 j 12:00	11°♌25'40	2°18'24
minimum elong	-8498 Oct 03 j 12:02	11°♌25'40	2°18'51
max. Earth dist.	-8498 Oct 02 j 13:55	11°♌19'01	10.87585 AU
morning rise	-8498 Oct 19 j 23:42	13°♌24'08	
	-8498 Nov 02 j 20:31	15°♌	
retrograde	-8497 Jan 31 j 09:48	20°♌45'51	
opposition	-8497 Apr 12 j 06:31	17°♌24'12	2°42'27
min. Earth dist.	-8497 Apr 13 j 01:03	17°♌20'43	8.80282 AU
	-8497 May 18 j 00:43	15°℞♌	
direct	-8497 Jun 20 j 21:51	14°♌04'24	
	-8497 Jul 24 j 00:01	15°♌	
evening set	-8497 Sep 28 j 20:44	21°♌17'36	
conjunction	-8497 Oct 15 j 09:21	23°♌18'07	2°04'53
minimum elong	-8497 Oct 15 j 09:25	23°♌18'08	2°05'16
max. Earth dist.	-8497 Oct 14 j 12:41	23°♌11'48	10.72445 AU
morning rise	-8497 Nov 01 j 01:04	25°♌19'41	
	-8497 Dec 14 j 14:52	0°♍	
retrograde	-8496 Feb 13 j 13:20	2°♍53'40	
	-8496 Apr 17 j 14:35	30°℞♌	
opposition	-8496 Apr 24 j 04:20	29°♌30'04	2°22'30
min. Earth dist.	-8496 Apr 24 j 20:45	29°♌26'57	8.64450 AU
direct	-8496 Jul 02 j 03:00	26°♌09'26	
	-8496 Sep 09 j 00:35	0°♍	
evening set	-8496 Oct 10 j 00:50	3°♍30'56	
conjunction	-8496 Oct 26 j 17:29	5°♍34'47	1°45'20
minimum elong	-8496 Oct 26 j 17:32	5°♍34'48	1°45'37
max. Earth dist.	-8496 Oct 25 j 22:47	5°♍28'57	10.56216 AU
morning rise	-8496 Nov 12 j 14:20	7°♍39'59	
retrograde	-8495 Feb 26 j 03:46	15°♍27'07	
opposition	-8495 May 07 j 11:04	12°♍01'34	1°55'07
min. Earth dist.	-8495 May 08 j 01:02	11°♍58'51	8.47866 AU
direct	-8495 Jul 14 j 15:55	8°♍39'54	
evening set	-8495 Oct 22 j 16:41	16°♍10'55	
conjunction	-8495 Nov 08 j 14:20	18°♍18'29	1°20'03
minimum elong	-8495 Nov 08 j 14:23	18°♍18'30	1°20'13
max. Earth dist.	-8495 Nov 07 j 23:24	18°♍13'45	10.39595 AU
morning rise	-8495 Nov 25 j 16:57	20°♍27'41	
retrograde	-8494 Mar 12 j 05:01	28°♍28'23	
opposition	-8494 May 21 j 02:51	25°♍00'55	1°20'49
min. Earth dist.	-8494 May 21 j 13:20	24°♍58'51	8.31301 AU
direct	-8494 Jul 27 j 15:06	21°♍38'09	
evening set	-8494 Nov 04 j 21:45	29°♍19'35	
	-8494 Nov 10 j 05:16	0°♎	
conjunction	-8494 Nov 22 j 01:02	1°♎31'07	0°49'47
minimum elong	-8494 Nov 22 j 01:05	1°♎31'08	0°49'50
max. Earth dist.	-8494 Nov 21 j 15:22	1°♎28'00	10.23389 AU
morning rise	-8494 Dec 09 j 09:41	3°♎44'26	
retrograde	-8493 Mar 26 j 17:21	11°♎58'30	
opposition	-8493 Jun 04 j 03:56	8°♎29'15	0°40'44
min. Earth dist.	-8493 Jun 04 j 09:35	8°♎28'07	8.15623 AU
direct	-8493 Aug 10 j 01:19	5°♎05'20	
evening set	-8493 Nov 18 j 17:07	12°♎57'39	
conjunction	-8493 Dec 06 j 02:10	15°♎13'07	0°15'48
minimum elong	-8493 Dec 06 j 02:11	15°♎13'07	0°15'43
behind sun begin	-8493 Dec 06 j 00:44	15°♎12'39	
behind sun end	-8493 Dec 06 j 03:38	15°♎13'35	
max. Earth dist.	-8493 Dec 05 j 22:33	15°♎11'56	10.08499 AU
morning rise	-8493 Dec 23 j 16:46	17°♎30'26	
retrograde	-8492 Apr 09 j 16:43	25°♎56'43	
desc. node	-8492 May 21 j 17:23	24°♎28'09	
opposition	-8492 Jun 17 j 13:30	22°♎25'57	-0°03'13
min. Earth dist.	-8492 Jun 17 j 13:49	22°♎25'53	8.01756 AU
direct	-8492 Aug 22 j 20:21	19°♎00'50	
evening set	-8492 Dec 02 j 03:32	27°♎04'02	
conjunction	-8492 Dec 19 j 18:01	29°♎23'03	-0°20'11
minimum elong	-8492 Dec 19 j 18:00	29°♎23'03	0°20'24
max. Earth dist.	-8492 Dec 19 j 20:36	29°♎23'55	9.95845 AU
	-8492 Dec 24 j 09:30	0°♏	
morning rise	-8491 Jan 06 j 13:58	1°♏43'56	
retrograde	-8491 Apr 25 j 00:11	10°♏20'12	
opposition	-8491 Jul 02 j 06:02	6°♏48'20	-0°48'23
min. Earth dist.	-8491 Jul 02 j 01:07	6°♏49'20	7.90605 AU
direct	-8491 Sep 06 j 01:29	3°♏22'00	
evening set	-8491 Dec 17 j 03:56	11°♏35'17	
conjunction	-8490 Jan 03 j 23:04	13°♏57'12	-0°55'43
minimum elong	-8490 Jan 03 j 23:01	13°♏57'11	0°56'03
max. Earth dist.	-8490 Jan 04 j 07:41	14°♏00'05	9.86299 AU
	-8490 Jan 11 j 18:58	15°♏	
morning rise	-8490 Jan 21 j 23:18	16°♏20'49	
retrograde	-8490 May 10 j 12:03	25°♏03'51	
opposition	-8490 Jul 17 j 03:46	21°♏31'20	-1°31'31
min. Earth dist.	-8490 Jul 16 j 18:13	21°♏33'19	7.82971 AU
direct	-8490 Sep 20 j 16:24	18°♏03'52	
evening set	-8489 Jan 01 j 15:54	26°♏25'31	
conjunction	-8489 Jan 19 j 14:37	28°♏49'22	-1°28'11
minimum elong	-8489 Jan 19 j 14:33	28°♏49'21	1°28'37
max. Earth dist.	-8489 Jan 20 j 05:07	28°♏54'15	9.80584 AU
	-8489 Jan 28 j 09:01	0°♐	
morning rise	-8489 Feb 06 j 17:43	1°♐14'38	
retrograde	-8489 May 26 j 00:41	10°♐00'20	
opposition	-8489 Aug 01 j 03:56	6°♐27'41	-2°09'06
min. Earth dist.	-8489 Jul 31 j 14:33	6°♐30'30	7.79440 AU
direct	-8489 Oct 05 j 15:22	2°♐59'13	
evening set	-8488 Jan 17 j 12:06	11°♐26'35	
conjunction	-8488 Feb 04 j 13:17	13°♐51'16	-1°54'59
minimum elong	-8488 Feb 04 j 13:12	13°♐51'15	1°55'30
max. Earth dist.	-8488 Feb 05 j 08:54	13°♐57'52	9.79159 AU
morning rise	-8488 Feb 22 j 17:44	16°♐16'58	
retrograde	-8488 Jun 09 j 09:46	25°♐00'36	
min. Earth dist.	-8488 Aug 14 j 11:03	21°♐31'50	7.80287 AU
opposition	-8488 Aug 15 j 03:23	21°♐28'23	-2°38'00
direct	-8488 Oct 19 j 19:12	17°♐59'07	
evening set	-8487 Feb 01 j 11:44	26°♐28'49	
conjunction	-8487 Feb 19 j 14:12	28°♐53'13	-2°13'58
minimum elong	-8487 Feb 19 j 14:09	28°♐53'11	2°14'32
max. Earth dist.	-8487 Feb 20 j 13:33	29°♐01'01	9.82136 AU
	-8487 Feb 27 j 22:12	0°♑	
morning rise	-8487 Mar 09 j 18:34	1°♑18'06	
retrograde	-8487 Jun 24 j 11:11	9°♑55'07	
opposition	-8487 Aug 29 j 23:23	6°♑23'49	-2°55'56
min. Earth dist.	-8487 Aug 29 j 05:01	6°♑27'41	7.85415 AU
direct	-8487 Nov 03 j 23:59	2°♑54'02	
evening set	-8486 Feb 17 j 09:20	11°♑22'17	
conjunction	-8486 Mar 07 j 12:03	13°♑45'21	-2°23'52
minimum elong	-8486 Mar 07 j 12:02	13°♑45'20	2°24'25
max. Earth dist.	-8486 Mar 08 j 13:29	13°♑53'46	9.89248 AU
morning rise	-8486 Mar 25 j 15:11	16°♑08'24	
retrograde	-8486 Jul 09 j 03:26	24°♑34'54	
opposition	-8486 Sep 13 j 13:06	21°♑04'56	-3°01'56
min. Earth dist.	-8486 Sep 12 j 17:40	21°♑08'59	7.94368 AU
direct	-8486 Nov 19 j 02:31	17°♑34'56	
evening set	-8485 Mar 05 j 00:19	25°♑58'13	

Attention, astronomical year style is used: The year -8485 in astronomical counting style is the year 8486 BCE in historical counting style.

conjunction	-8485 Mar 23 j 02:31	28°♓19'10	-2°24'19
minimum elong	-8485 Mar 23 j 02:32	28°♓19'10	2°24'50
max. Earth dist.	-8485 Mar 24 j 04:11	28°♓27'33	9.99871 AU
	-8485 Apr 05 j 00:17	0°♒	
morning rise	-8485 Apr 10 j 03:35	0°♒39'37	
retrograde	-8485 Jul 23 j 08:53	8°♒52'52	
opposition	-8485 Sep 27 j 18:33	5°♒24'31	-2°56'19
min. Earth dist.	-8485 Sep 26 j 23:21	5°♒28'30	8.06376 AU
direct	-8485 Dec 03 j 23:29	1°♒54'41	
evening set	-8484 Mar 19 j 05:07	10°♒10'16	
conjunction	-8484 Apr 06 j 06:06	12°♒28'33	-2°15'55
minimum elong	-8484 Apr 06 j 06:09	12°♒28'34	2°16'23
max. Earth dist.	-8484 Apr 07 j 06:20	12°♒36'21	10.13132 AU
morning rise	-8484 Apr 24 j 04:31	14°♒45'57	
	-8484 Apr 26 j 01:21	15°♒	
retrograde	-8484 Aug 05 j 02:56	22°♒44'35	
opposition	-8484 Oct 10 j 14:56	19°♒18'10	-2°40'24
min. Earth dist.	-8484 Oct 09 j 21:23	19°♒21'45	8.20558 AU
direct	-8484 Dec 17 j 13:07	15°♒48'52	
evening set	-8483 Apr 02 j 21:28	23°♒54'51	
conjunction	-8483 Apr 20 j 20:29	26°♒10'07	-1°59'57
minimum elong	-8483 Apr 20 j 20:33	26°♒10'08	2°00'19
max. Earth dist.	-8483 Apr 21 j 17:59	26°♒16'55	10.28171 AU
morning rise	-8483 May 08 j 15:46	28°♒24'11	
	-8483 May 21 j 20:36	0°♓	
retrograde	-8483 Aug 18 j 08:02	6°♓07'58	
min. Earth dist.	-8483 Oct 23 j 10:57	2°♓46'35	8.36123 AU
opposition	-8483 Oct 24 j 01:50	2°♓43'35	-2°16'09
	-8483 Dec 02 j 04:45	30°℞♒	
direct	-8483 Dec 31 j 18:04	29°♒15'06	
	-8482 Jan 30 j 07:29	0°♓	
evening set	-8482 Apr 17 j 00:15	7°♓10'20	
conjunction	-8482 May 04 j 20:38	9°♓22'25	-1°38'02
minimum elong	-8482 May 04 j 20:42	9°♓22'26	1°38'18
max. Earth dist.	-8482 May 05 j 14:13	9°♓27'52	10.44206 AU
morning rise	-8482 May 22 j 12:31	11°♓33'03	
retrograde	-8482 Aug 31 j 01:47	19°♓02'34	
opposition	-8482 Nov 06 j 03:16	15°♓40'10	-1°45'48
min. Earth dist.	-8482 Nov 05 j 15:52	15°♓42'25	8.52303 AU
direct	-8481 Jan 14 j 13:00	12°♓12'42	
evening set	-8481 Apr 30 j 13:15	19°♓56'50	
conjunction	-8481 May 18 j 06:26	22°♓05'40	-1°11'55
minimum elong	-8481 May 18 j 06:29	22°♓05'41	1°12'03
max. Earth dist.	-8481 May 18 j 18:52	22°♓09'27	10.60441 AU
morning rise	-8481 Jun 04 j 18:41	24°♓12'57	
	-8481 Aug 01 j 21:30	0°♈	
retrograde	-8481 Sep 12 j 08:22	1°♈29'27	
	-8481 Oct 24 j 16:26	30°℞♓	
opposition	-8481 Nov 18 j 19:48	28°♓08'53	-1°11'33
min. Earth dist.	-8481 Nov 18 j 11:39	28°♓10'29	8.68307 AU
direct	-8480 Jan 27 j 22:29	24°♓42'36	
	-8480 Apr 22 j 13:11	0°♈	
evening set	-8480 May 12 j 13:10	2°♈15'55	
conjunction	-8480 May 30 j 02:38	4°♈21'35	-0°43'16
minimum elong	-8480 May 30 j 02:40	4°♈21'35	0°43'17
max. Earth dist.	-8480 May 30 j 10:04	4°♈23'49	10.76104 AU
morning rise	-8480 Jun 16 j 10:55	6°♈25'40	
retrograde	-8480 Sep 23 j 05:37	13°♈30'57	
opposition	-8480 Nov 30 j 04:20	10°♈12'01	-0°35'20
min. Earth dist.	-8480 Nov 29 j 23:16	10°♈12'59	8.83411 AU
direct	-8479 Feb 08 j 23:09	6°♈46'59	
evening set	-8479 May 25 j 00:59	14°♈10'17	
conjunction	-8479 Jun 11 j 10:29	16°♈12'59	-0°13'35
minimum elong	-8479 Jun 11 j 10:29	16°♈12'59	0°13'29
behind sun begin	-8479 Jun 11 j 06:31	16°♈11'49	
behind sun end	-8479 Jun 11 j 14:27	16°♈14'09	
max. Earth dist.	-8479 Jun 11 j 13:49	16°♈13'57	10.90523 AU
morning rise	-8479 Jun 28 j 14:32	18°♈14'06	
retrograde	-8479 Oct 04 j 21:50	25°♈10'12	
asc. node	-8479 Nov 30 j 05:02	22°♈46'45	
opposition	-8479 Dec 12 j 06:10	21°♈52'38	0°01'10
min. Earth dist.	-8479 Dec 12 j 04:33	21°♈52'57	8.97001 AU
direct	-8478 Feb 21 j 12:22	18°♈28'52	
evening set	-8478 Jun 06 j 02:07	25°♈43'18	
conjunction	-8478 Jun 23 j 07:21	27°♈43'19	0°15'58
minimum elong	-8478 Jun 23 j 07:20	27°♈43'19	0°16'11
max. Earth dist.	-8478 Jun 23 j 06:42	27°♈43'08	11.03131 AU
morning rise	-8478 Jul 10 j 07:10	29°♈41'49	
	-8478 Jul 12 j 22:59	0°♉	
retrograde	-8478 Oct 16 j 06:40	6°♉30'51	
opposition	-8478 Dec 24 j 02:31	3°♉14'24	0°36'35
min. Earth dist.	-8478 Dec 24 j 05:20	3°♉13'52	9.08565 AU
	-8477 Feb 20 j 14:28	30°℞♈	
direct	-8477 Mar 05 j 17:36	29°♈51'49	
	-8477 Mar 18 j 21:22	0°♉	
evening set	-8477 Jun 17 j 18:34	6°♉58'51	
conjunction	-8477 Jul 04 j 19:17	8°♉56'29	0°44'11
minimum elong	-8477 Jul 04 j 19:15	8°♉56'29	0°44'29
max. Earth dist.	-8477 Jul 04 j 13:28	8°♉54'48	11.13478 AU
morning rise	-8477 Jul 21 j 15:06	10°♉52'47	
	-8477 Aug 31 j 01:55	15°♉	
retrograde	-8477 Oct 27 j 12:05	17°♉36'55	
	-8477 Dec 26 j 23:58	15°℞♉	
opposition	-8476 Jan 04 j 18:43	14°♉21'17	1°09'49
min. Earth dist.	-8476 Jan 05 j 01:31	14°♉20'01	9.17709 AU
direct	-8476 Mar 16 j 17:18	10°♉59'46	
	-8476 May 30 j 15:54	15°♉	
evening set	-8476 Jun 28 j 03:49	18°♉00'56	
conjunction	-8476 Jul 15 j 00:09	19°♉56'37	1°10'18
minimum elong	-8476 Jul 15 j 00:06	19°♉56'36	1°10'40
max. Earth dist.	-8476 Jul 14 j 13:52	19°♉53'39	11.21241 AU
morning rise	-8476 Jul 31 j 16:16	21°♉51'08	
retrograde	-8476 Nov 06 j 14:41	28°♉32'33	
opposition	-8475 Jan 15 j 08:23	25°♉17'22	1°39'56
min. Earth dist.	-8475 Jan 15 j 17:55	25°♉15'37	9.24142 AU
direct	-8475 Mar 28 j 10:39	21°♉56'51	
evening set	-8475 Jul 09 j 07:23	28°♉53'41	
	-8475 Jul 19 j 01:03	0°♊	
conjunction	-8475 Jul 25 j 23:51	0°♊47'52	1°33'33
minimum elong	-8475 Jul 25 j 23:48	0°♊47'52	1°33'59
max. Earth dist.	-8475 Jul 25 j 10:52	0°♊44'08	11.26183 AU
morning rise	-8475 Aug 11 j 12:33	2°♊41'05	
retrograde	-8475 Nov 17 j 19:27	9°♊21'55	
opposition	-8474 Jan 26 j 20:52	6°♊06'53	2°06'12
min. Earth dist.	-8474 Jan 27 j 08:55	6°♊04'41	9.27665 AU
direct	-8474 Apr 09 j 00:34	2°♊47'13	
evening set	-8474 Jul 20 j 07:29	9°♊41'20	
conjunction	-8474 Aug 05 j 20:30	11°♊34'31	1°53'19
minimum elong	-8474 Aug 05 j 20:28	11°♊34'30	1°53'49
max. Earth dist.	-8474 Aug 05 j 04:40	11°♊29'58	11.28154 AU
morning rise	-8474 Aug 22 j 06:24	13°♊26'56	
retrograde	-8474 Nov 29 j 00:11	20°♊09'07	
opposition	-8473 Feb 07 j 09:32	16°♊53'59	2°27'56
min. Earth dist.	-8473 Feb 08 j 00:44	16°♊51'13	9.28174 AU

Attention, astronomical year style is used: The year -8473 in astronomical counting style is the year 8474 BCE in historical counting style.

direct	-8473 Apr 20 j 09:02	13°♊34'57	
evening set	-8473 Jul 31 j 05:42	20°♊27'58	
conjunction	-8473 Aug 16 j 15:47	22°♊20'40	2°09'03
minimum elong	-8473 Aug 16 j 15:45	22°♊20'39	2°09'35
max. Earth dist.	-8473 Aug 15 j 20:37	22°♊15'09	11.27104 AU
morning rise	-8473 Sep 01 j 23:50	24°♊12'52	
	-8473 Nov 05 j 10:31	0°♋	
retrograde	-8473 Dec 10 j 07:41	0°♋58'24	
	-8472 Jan 15 j 01:34	30°℞♊	
opposition	-8472 Feb 19 j 00:08	27°♊42'48	2°44'31
min. Earth dist.	-8472 Feb 19 j 17:53	27°♊39'35	9.25651 AU
direct	-8472 Apr 30 j 19:15	24°♊24'13	
	-8472 Jul 29 j 11:31	0°♋	
evening set	-8472 Aug 10 j 03:31	1°♋17'40	
conjunction	-8472 Aug 26 j 11:37	3°♋10'27	2°20'15
minimum elong	-8472 Aug 26 j 11:36	3°♋10'27	2°20'48
max. Earth dist.	-8472 Aug 25 j 14:39	3°♋04'22	11.23065 AU
morning rise	-8472 Sep 11 j 18:39	5°♋02'59	
retrograde	-8472 Dec 20 j 21:15	11°♋53'45	
opposition	-8471 Mar 01 j 17:47	8°♋37'23	2°55'24
min. Earth dist.	-8471 Mar 02 j 12:23	8°♋34'00	9.20162 AU
direct	-8471 May 12 j 05:35	5°♋19'04	
evening set	-8471 Aug 21 j 02:56	12°♋14'25	
conjunction	-8471 Sep 06 j 10:12	14°♋07'52	2°26'27
minimum elong	-8471 Sep 06 j 10:11	14°♋07'52	2°27'00
max. Earth dist.	-8471 Sep 05 j 12:58	14°♋01'40	11.16141 AU
morning rise	-8471 Sep 22 j 17:05	16°♋01'22	
retrograde	-8470 Jan 01 j 16:49	22°♋59'07	
opposition	-8470 Mar 13 j 15:39	19°♋41'40	3°00'01
min. Earth dist.	-8470 Mar 14 j 10:32	19°♋38'13	9.11859 AU
direct	-8470 May 23 j 16:29	16°♋23'22	
evening set	-8470 Sep 01 j 05:44	23°♋22'08	
conjunction	-8470 Sep 17 j 13:06	25°♋16'52	2°27'15
minimum elong	-8470 Sep 17 j 13:06	25°♋16'52	2°27'46
max. Earth dist.	-8470 Sep 16 j 15:13	25°♋10'24	11.06542 AU
morning rise	-8470 Oct 03 j 21:06	27°♋11'55	
	-8470 Oct 29 j 10:20	0°♌	
retrograde	-8469 Jan 13 j 20:41	4°♌18'18	
opposition	-8469 Mar 25 j 19:21	0°♌59'32	2°57'53
min. Earth dist.	-8469 Mar 26 j 14:32	0°♌56'00	9.01002 AU
	-8469 Apr 08 j 11:16	30°℞♋	
direct	-8469 Jun 04 j 07:12	27°♋41'02	
	-8469 Jul 28 j 07:17	0°♌	
evening set	-8469 Sep 12 j 13:35	4°♌44'36	
conjunction	-8469 Sep 28 j 22:06	6°♌41'12	2°22'17
minimum elong	-8469 Sep 28 j 22:08	6°♌41'13	2°22'47
max. Earth dist.	-8469 Sep 27 j 23:47	6°♌34'31	10.94584 AU
morning rise	-8469 Oct 15 j 08:30	8°♌38'27	
	-8469 Dec 23 j 13:31	15°♌	
retrograde	-8468 Jan 26 j 07:40	15°♌55'01	
	-8468 Feb 29 j 17:42	15°℞♌	
opposition	-8468 Apr 06 j 05:53	12°♌34'40	2°48'35
min. Earth dist.	-8468 Apr 07 j 00:54	12°♌31'08	8.87959 AU
direct	-8468 Jun 15 j 02:36	9°♌15'42	
	-8468 Sep 10 j 22:19	15°♌	
evening set	-8468 Sep 23 j 04:25	16°♌25'28	
conjunction	-8468 Oct 09 j 15:27	18°♌24'33	2°11'21
minimum elong	-8468 Oct 09 j 15:30	18°♌24'34	2°11'47
max. Earth dist.	-8468 Oct 08 j 18:43	18°♌18'15	10.80673 AU
morning rise	-8468 Oct 26 j 05:21	20°♌24'34	
retrograde	-8467 Feb 07 j 05:22	27°♌52'39	
opposition	-8467 Apr 18 j 23:56	24°♌30'30	2°31'50
min. Earth dist.	-8467 Apr 19 j 17:12	24°♌27'14	8.73191 AU
direct	-8467 Jun 27 j 06:14	21°♌10'50	
evening set	-8467 Oct 05 j 04:01	28°♌28'05	
	-8467 Oct 17 j 16:51	0°♍	
conjunction	-8467 Oct 21 j 18:48	0°♍30'14	1°54'21
minimum elong	-8467 Oct 21 j 18:51	0°♍30'15	1°54'41
max. Earth dist.	-8467 Oct 21 j 00:42	0°♍24'39	10.65296 AU
morning rise	-8467 Nov 07 j 13:08	2°♍33'34	
retrograde	-8466 Feb 20 j 15:29	10°♍14'10	
opposition	-8466 May 02 j 02:24	6°♍50'06	2°07'36
min. Earth dist.	-8466 May 02 j 16:50	6°♍47'20	8.57226 AU
direct	-8466 Jul 09 j 15:36	3°♍29'33	
evening set	-8466 Oct 17 j 14:18	10°♍55'30	
conjunction	-8466 Nov 03 j 09:38	13°♍01'09	1°31'30
minimum elong	-8466 Nov 03 j 09:42	13°♍01'10	1°31'43
max. Earth dist.	-8466 Nov 02 j 18:16	12°♍56'20	10.49019 AU
morning rise	-8466 Nov 20 j 09:20	15°♍08'16	
retrograde	-8465 Mar 06 j 12:04	23°♍02'07	
opposition	-8465 May 15 j 13:50	19°♍36'06	1°36'13
min. Earth dist.	-8465 May 16 j 01:00	19°♍33'56	8.40693 AU
direct	-8465 Jul 22 j 09:24	16°♍14'29	
evening set	-8465 Oct 30 j 13:05	23°♍50'20	
conjunction	-8465 Nov 16 j 13:38	25°♍59'50	1°03'18
minimum elong	-8465 Nov 16 j 13:41	25°♍59'51	1°03'24
max. Earth dist.	-8465 Nov 16 j 01:11	25°♍55'51	10.32547 AU
morning rise	-8465 Dec 03 j 19:24	28°♍11'02	
	-8465 Dec 18 j 16:48	0°♎	
retrograde	-8464 Mar 19 j 19:58	6°♎18'20	
opposition	-8464 May 28 j 10:34	2°♎50'27	0°58'32
min. Earth dist.	-8464 May 28 j 18:20	2°♎48'55	8.24414 AU
	-8464 Jul 10 j 02:16	30°℞♍	
direct	-8464 Aug 03 j 13:35	29°♍27'38	
	-8464 Aug 27 j 17:27	0°♎	
evening set	-8464 Nov 12 j 01:43	7°♎14'12	
conjunction	-8464 Nov 29 j 07:56	9°♎27'40	0°30'48
minimum elong	-8464 Nov 29 j 07:58	9°♎27'41	0°30'46
max. Earth dist.	-8464 Nov 28 j 23:52	9°♎25'03	10.16780 AU
morning rise	-8464 Dec 16 j 19:55	11°♎43'00	
retrograde	-8463 Apr 03 j 14:17	20°♎03'07	
opposition	-8463 Jun 11 j 16:07	16°♎33'31	0°16'05
min. Earth dist.	-8463 Jun 11 j 19:52	16°♎32'46	8.09370 AU
direct	-8463 Aug 17 j 04:16	13°♎09'22	
desc. node	-8463 Oct 26 j 16:00	17°♎25'55	
evening set	-8463 Nov 26 j 05:03	21°♎06'57	
conjunction	-8463 Dec 13 j 16:54	23°♎24'11	-0°04'34
minimum elong	-8463 Dec 13 j 16:54	23°♎24'11	0°04'45
behind sun begin	-8463 Dec 13 j 09:49	23°♎21'53	
behind sun end	-8463 Dec 13 j 23:58	23°♎26'29	
max. Earth dist.	-8463 Dec 13 j 14:34	23°♎23'27	10.02711 AU
morning rise	-8463 Dec 31 j 10:34	25°♎43'19	
	-8462 Feb 05 j 06:34	0°♏	
retrograde	-8462 Apr 18 j 17:02	4°♏14'34	
opposition	-8462 Jun 26 j 05:16	0°♏43'32	-0°28'49
min. Earth dist.	-8462 Jun 26 j 04:22	0°♏43'43	7.96556 AU
	-8462 Jul 05 j 03:49	30°℞♎	
direct	-8462 Aug 31 j 05:53	27°♎17'59	
	-8462 Oct 24 j 18:20	0°♏	
evening set	-8462 Dec 10 j 22:42	5°♏26'10	
conjunction	-8462 Dec 28 j 15:42	7°♏46'39	-0°40'28
minimum elong	-8462 Dec 28 j 15:40	7°♏46'38	0°40'45

Attention, astronomical year style is used: The year -8461 in astronomical counting style is the year 8462 BCE in historical counting style.

max. Earth dist.	-8462 Dec 28 j 20:05	7°♏48'07	9.91304 AU	
morning rise	-8461 Jan 15 j 14:07	10°♏08'56		
	-8461 Feb 25 j 08:37	15°♏		
retrograde	-8461 May 04 j 01:29	18°♏48'36		
opposition	-8461 Jul 11 j 00:26	15°♏16'30	-1°13'09	
min. Earth dist.	-8461 Jul 10 j 18:27	15°♏17'44	7.86869 AU	
	-8461 Jul 14 j 08:11	15°℞♏		
direct	-8461 Sep 14 j 17:21	11°♏49'36		
	-8461 Nov 12 j 22:21	15°♏		
evening set	-8461 Dec 26 j 05:04	20°♏07'02		
conjunction	-8460 Jan 13 j 02:20	22°♏29'58	-1°14'32	
minimum elong	-8460 Jan 13 j 02:16	22°♏29'57	1°14'56	
max. Earth dist.	-8460 Jan 13 j 13:30	22°♏33'43	9.83378 AU	
morning rise	-8460 Jan 31 j 04:13	24°♏54'27		
	-8460 Mar 13 j 21:54	0°♐		
retrograde	-8460 May 18 j 12:43	3°♐38'50		
opposition	-8460 Jul 24 j 23:09	0°♐06'07	-1°53'31	
min. Earth dist.	-8460 Jul 24 j 12:15	0°♐08'24	7.80998 AU	
	-8460 Jul 26 j 04:26	30°℞♏		
direct	-8460 Sep 28 j 12:38	26°♏37'58		
	-8460 Nov 28 j 15:17	0°♐		
evening set	-8459 Jan 09 j 21:30	5°♐02'31		
conjunction	-8459 Jan 27 j 21:49	7°♐26'52	-1°44'04	
minimum elong	-8459 Jan 27 j 21:44	7°♐26'51	1°44'34	
max. Earth dist.	-8459 Jan 28 j 14:50	7°♐32'36	9.79511 AU	
morning rise	-8459 Feb 15 j 01:39	9°♐52'23		
retrograde	-8459 Jun 02 j 22:52	18°♐37'02		
opposition	-8459 Aug 08 j 22:34	15°♐04'18	-2°26'33	
min. Earth dist.	-8459 Aug 08 j 07:45	15°♐07'25	7.79363 AU	
direct	-8459 Oct 13 j 13:00	11°♐35'04		
evening set	-8458 Jan 25 j 19:28	20°♐03'43		
conjunction	-8458 Feb 12 j 21:35	22°♐28'22	-2°06'42	
minimum elong	-8458 Feb 12 j 21:31	22°♐28'20	2°07'15	
max. Earth dist.	-8458 Feb 13 j 19:13	22°♐35'37	9.79996 AU	
morning rise	-8458 Mar 03 j 01:56	24°♐53'41		
	-8458 Apr 14 j 22:47	0°♑		
retrograde	-8458 Jun 18 j 04:27	3°♑34'02		
opposition	-8458 Aug 23 j 19:58	0°♑01'49	-2°49'33	
min. Earth dist.	-8458 Aug 23 j 02:29	0°♑05'30	7.82069 AU	
	-8458 Aug 24 j 04:34	30°℞♐		
direct	-8458 Oct 28 j 15:43	26°♐31'47		
	-8458 Dec 30 j 10:20	0°♑		
evening set	-8457 Feb 10 j 17:53	5°♑00'58		
conjunction	-8457 Feb 28 j 20:43	7°♑24'49	-2°20'43	
minimum elong	-8457 Feb 28 j 20:41	7°♑24'48	2°21'17	
max. Earth dist.	-8457 Mar 01 j 21:20	7°♑33'01	9.84777 AU	
morning rise	-8457 Mar 19 j 00:25	9°♑48'51		
retrograde	-8457 Jul 03 j 02:30	18°♑20'40		
opposition	-8457 Sep 07 j 12:30	14°♑49'30	-3°00'55	
min. Earth dist.	-8457 Sep 06 j 17:50	14°♑53'25	7.88875 AU	
direct	-8457 Nov 12 j 18:57	11°♑19'00		
evening set	-8456 Feb 26 j 12:12	19°♑45'07		
conjunction	-8456 Mar 15 j 14:48	22°♑07'15	-2°25'21	
minimum elong	-8456 Mar 15 j 14:48	22°♑07'15	2°25'53	
max. Earth dist.	-8456 Mar 16 j 16:18	22°♑15'39	9.93465 AU	
morning rise	-8456 Apr 02 j 16:55	24°♑29'06		
	-8456 May 21 j 00:09	0°♒		
retrograde	-8456 Jul 16 j 13:27	2°♒48'59		
	-8456 Sep 12 j 17:33	30°℞♑		
opposition	-8456 Sep 20 j 21:47	29°♑19'18	-3°00'23	
min. Earth dist.	-8456 Sep 20 j 03:20	29°♑23'09	7.99252 AU	
direct	-8456 Nov 26 j 19:01	25°♑48'45		
	-8455 Feb 05 j 20:51	0°♒		
evening set	-8455 Mar 12 j 21:59	4°♒08'33		
conjunction	-8455 Mar 30 j 23:34	6°♒28'16	-2°20'47	
minimum elong	-8455 Mar 30 j 23:36	6°♒28'17	2°21'16	
max. Earth dist.	-8455 Apr 01 j 00:02	6°♒36'12	10.05409 AU	
morning rise	-8455 Apr 17 j 23:23	8°♒47'17		
	-8455 Jun 14 j 16:17	15°♒		
retrograde	-8455 Jul 30 j 11:48	16°♒53'04		
	-8455 Sep 15 j 01:16	15°℞♒		
opposition	-8455 Oct 04 j 22:31	13°♒25'13	-2°48'50	
min. Earth dist.	-8455 Oct 04 j 04:50	13°♒28'52	8.12464 AU	
direct	-8455 Dec 11 j 13:20	9°♒55'02		
	-8454 Mar 01 j 19:02	15°♒		
evening set	-8454 Mar 27 j 19:56	18°♒05'57		
conjunction	-8454 Apr 14 j 19:51	20°♒22'46	-2°08'00	
minimum elong	-8454 Apr 14 j 19:55	20°♒22'47	2°08'25	
max. Earth dist.	-8454 Apr 15 j 18:10	20°♒29'53	10.19788 AU	
morning rise	-8454 May 02 j 16:52	22°♒38'32		
	-8454 Jul 20 j 21:48	0°♓		
retrograde	-8454 Aug 12 j 20:57	0°♓29'23		
	-8454 Sep 05 j 00:24	30°℞♒		
opposition	-8454 Oct 18 j 13:39	27°♒03'31	-2°28'01	
min. Earth dist.	-8454 Oct 17 j 21:16	27°♒06'51	8.27655 AU	
direct	-8454 Dec 25 j 23:08	23°♒34'05		
	-8453 Mar 29 j 01:59	0°♓		
evening set	-8453 Apr 11 j 04:44	1°♓34'33		
conjunction	-8453 Apr 29 j 02:26	3°♓48'12	-1°48'31	
minimum elong	-8453 Apr 29 j 02:30	3°♓48'13	1°48'50	
max. Earth dist.	-8453 Apr 29 j 21:49	3°♓54'16	10.35707 AU	
morning rise	-8453 May 16 j 20:10	6°♓00'32		
retrograde	-8453 Aug 25 j 20:02	13°♓36'37		
opposition	-8453 Oct 31 j 18:58	10°♓12'49	-2°00'05	
min. Earth dist.	-8453 Oct 31 j 04:37	10°♓15'42	8.43931 AU	
direct	-8452 Jan 08 j 21:48	6°♓44'27		
evening set	-8452 Apr 23 j 23:49	14°♓33'45		
conjunction	-8452 May 11 j 18:41	16°♓44'09	-1°24'03	
minimum elong	-8452 May 11 j 18:45	16°♓44'10	1°24'15	
max. Earth dist.	-8452 May 12 j 10:39	16°♓49'04	10.52265 AU	
morning rise	-8452 May 29 j 08:41	18°♓53'01		
retrograde	-8452 Sep 06 j 08:21	26°♓15'22		
opposition	-8452 Nov 12 j 15:18	22°♓53'38	-1°27'16	
min. Earth dist.	-8452 Nov 12 j 04:05	22°♓55'51	8.60439 AU	
direct	-8451 Jan 21 j 10:39	19°♓26'34		
evening set	-8451 May 07 j 05:21	27°♓04'46		
conjunction	-8451 May 24 j 20:45	29°♓11'55	-0°56'18	
minimum elong	-8451 May 24 j 20:47	29°♓11'56	0°56'23	
max. Earth dist.	-8451 May 25 j 08:39	29°♓15'31	10.68627 AU	
	-8451 May 31 j 11:49	0°♈		
morning rise	-8451 Jun 11 j 06:46	1°♈17'28		
retrograde	-8451 Sep 18 j 10:10	8°♈27'43		
opposition	-8451 Nov 25 j 03:22	5°♈07'55	-0°51'39	
min. Earth dist.	-8451 Nov 24 j 20:12	5°♈09'18	8.76401 AU	
direct	-8450 Feb 03 j 14:09	1°♈42'15		
evening set	-8450 May 19 j 22:33	9°♈10'01		
conjunction	-8450 Jun 06 j 09:55	11°♈14'04	-0°26'52	
minimum elong	-8450 Jun 06 j 09:56	11°♈14'04	0°26'50	
max. Earth dist.	-8450 Jun 06 j 16:26	11°♈16'00	10.84061 AU	
morning rise	-8450 Jun 23 j 15:54	13°♈16'31		
retrograde	-8450 Sep 30 j 04:28	20°♈16'35		
opposition	-8450 Dec 07 j 08:00	16°♈58'30	-0°15'02	
min. Earth dist.	-8450 Dec 07 j 04:52	16°♈59'06	8.91135 AU	

Attention, astronomical year style is used: The year -8449 in astronomical counting style is the year 8450 BCE in historical counting style.

direct	-8449 Feb 16 j 07:56	13°♈34'16	
asc. node	-8449 May 11 j 21:53	18°♈37'59	
evening set	-8449 Jun 01 j 04:39	20°♈52'40	
conjunction	-8449 Jun 18 j 11:43	22°♈53'52	0°02'59
minimum elong	-8449 Jun 18 j 11:43	22°♈53'51	0°03'09
behind sun begin	-8449 Jun 18 j 04:39	22°♈51'48	
behind sun end	-8449 Jun 18 j 18:47	22°♈55'54	
max. Earth dist.	-8449 Jun 18 j 12:50	22°♈54'09	10.97933 AU
morning rise	-8449 Jul 05 j 13:37	24°♈53'31	
	-8449 Aug 26 j 13:49	0°♉	
retrograde	-8449 Oct 11 j 15:16	1°♉45'32	
	-8449 Nov 28 j 06:24	30°℞♈	
opposition	-8449 Dec 19 j 06:44	28°♈28'51	0°21'04
min. Earth dist.	-8449 Dec 19 j 06:52	28°♈28'49	9.04046 AU
direct	-8448 Feb 28 j 18:09	25°♈06'01	
	-8448 May 22 j 06:14	0°♉	
evening set	-8448 Jun 12 j 01:06	2°♉16'20	
conjunction	-8448 Jun 29 j 03:49	4°♉14'58	0°31'53
minimum elong	-8448 Jun 29 j 03:47	4°♉14'57	0°32'09
max. Earth dist.	-8448 Jun 29 j 00:52	4°♉14'06	11.09710 AU
morning rise	-8448 Jul 16 j 01:28	6°♉12'11	
retrograde	-8448 Oct 21 j 23:57	12°♉58'20	
opposition	-8448 Dec 30 j 00:56	9°♉42'43	0°55'25
min. Earth dist.	-8448 Dec 30 j 04:28	9°♉42'03	9.14654 AU
direct	-8447 Mar 11 j 20:54	6°♉21'11	
evening set	-8447 Jun 23 j 13:43	13°♉24'49	
	-8447 Jul 07 j 10:21	15°♉	
conjunction	-8447 Jul 10 j 12:07	15°♉21'18	0°59'04
minimum elong	-8447 Jul 10 j 12:04	15°♉21'18	0°59'24
max. Earth dist.	-8447 Jul 10 j 05:22	15°♉19'21	11.18970 AU
morning rise	-8447 Jul 27 j 05:43	17°♉16'30	
retrograde	-8447 Nov 02 j 04:32	23°♉58'53	
opposition	-8446 Jan 10 j 15:53	20°♉43'59	1°27'03
min. Earth dist.	-8446 Jan 10 j 23:40	20°♉42'33	9.22590 AU
direct	-8446 Mar 23 j 14:58	17°♉23'33	
evening set	-8446 Jul 04 j 20:05	24°♉22'05	
conjunction	-8446 Jul 21 j 14:14	26°♉16'51	1°23'41
minimum elong	-8446 Jul 21 j 14:11	26°♉16'50	1°24'06
max. Earth dist.	-8446 Jul 21 j 02:39	26°♉13'31	11.25384 AU
morning rise	-8446 Aug 07 j 04:21	28°♉10'31	
	-8446 Aug 23 j 22:10	0°♊	
retrograde	-8446 Nov 13 j 07:29	4°♊51'16	
opposition	-8445 Jan 22 j 05:00	1°♊36'43	1°55'06
min. Earth dist.	-8445 Jan 22 j 16:56	1°♊34'32	9.27540 AU
	-8445 Feb 14 j 06:49	30°℞♉	
direct	-8445 Apr 04 j 07:09	28°♉17'08	
	-8445 May 21 j 23:38	0°♊	
evening set	-8445 Jul 15 j 21:59	5°♊12'16	
conjunction	-8445 Aug 01 j 12:19	7°♊05'46	1°45'04
minimum elong	-8445 Aug 01 j 12:16	7°♊05'45	1°45'33
max. Earth dist.	-8445 Jul 31 j 20:22	7°♊01'11	11.28698 AU
morning rise	-8445 Aug 17 j 23:28	8°♊58'25	
retrograde	-8445 Nov 24 j 11:44	15°♊39'40	
opposition	-8444 Feb 02 j 17:43	12°♊25'04	2°18'55
min. Earth dist.	-8444 Feb 03 j 08:20	12°♊22'25	9.29299 AU
direct	-8444 Apr 14 j 19:24	9°♊06'12	
evening set	-8444 Jul 25 j 21:06	15°♊59'32	
conjunction	-8444 Aug 11 j 08:25	17°♊52'20	2°02'38
minimum elong	-8444 Aug 11 j 08:22	17°♊52'19	2°03'10
max. Earth dist.	-8444 Aug 10 j 14:09	17°♊47'05	11.28796 AU
morning rise	-8444 Aug 27 j 17:09	19°♊44'31	
retrograde	-8444 Dec 04 j 19:35	26°♊28'20	
opposition	-8443 Feb 13 j 07:38	23°♊13'21	2°37'51
min. Earth dist.	-8443 Feb 14 j 00:18	23°♊10'19	9.27837 AU
direct	-8443 Apr 26 j 05:43	19°♊54'56	
evening set	-8443 Aug 05 j 19:10	26°♊48'03	
max. Earth dist.	-8443 Aug 21 j 07:45	28°♊34'49	11.25725 AU
conjunction	-8443 Aug 22 j 04:11	28°♊40'44	2°15'53
minimum elong	-8443 Aug 22 j 04:09	28°♊40'43	2°16'26
	-8443 Sep 02 j 15:22	0°♋	
morning rise	-8443 Sep 07 j 11:24	0°♋33'01	
retrograde	-8443 Dec 16 j 06:43	7°♋21'17	
opposition	-8442 Feb 25 j 00:05	4°♋05'33	2°51'19
min. Earth dist.	-8442 Feb 25 j 19:02	4°♋02'06	9.23251 AU
direct	-8442 May 07 j 14:33	0°♋47'20	
evening set	-8442 Aug 16 j 18:09	7°♋41'46	
max. Earth dist.	-8442 Sep 01 j 02:31	9°♋28'09	11.19631 AU
conjunction	-8442 Sep 02 j 01:36	9°♋34'52	2°24'21
minimum elong	-8442 Sep 02 j 01:35	9°♋34'51	2°24'53
morning rise	-8442 Sep 18 j 08:26	11°♋27'53	
retrograde	-8442 Dec 27 j 21:49	18°♋22'24	
opposition	-8441 Mar 08 j 20:10	15°♋05'33	2°58'46
min. Earth dist.	-8441 Mar 09 j 16:56	15°♋01'46	9.15720 AU
direct	-8441 May 19 j 01:19	11°♋47'15	
evening set	-8441 Aug 27 j 19:26	18°♋44'31	
max. Earth dist.	-8441 Sep 12 j 02:51	20°♋31'42	11.10733 AU
conjunction	-8441 Sep 13 j 02:31	20°♋38'39	2°27'34
minimum elong	-8441 Sep 13 j 02:31	20°♋38'39	2°28'06
morning rise	-8441 Sep 29 j 10:00	22°♋32'58	
retrograde	-8440 Jan 08 j 21:54	29°♋35'30	
opposition	-8440 Mar 19 j 21:25	26°♋17'14	2°59'41
min. Earth dist.	-8440 Mar 20 j 18:08	26°♋13'26	9.05499 AU
direct	-8440 May 29 j 16:23	22°♋58'37	
evening set	-8440 Sep 07 j 00:44	0°♌00'06	
	-8440 Sep 07 j 00:22	0°♌	
max. Earth dist.	-8440 Sep 22 j 10:04	1°♌49'09	10.99322 AU
conjunction	-8440 Sep 23 j 08:44	1°♌55'54	2°25'11
minimum elong	-8440 Sep 23 j 08:46	1°♌55'54	2°25'41
morning rise	-8440 Oct 09 j 17:54	3°♌52'10	
retrograde	-8439 Jan 20 j 05:44	11°♌04'18	
opposition	-8439 Apr 01 j 04:47	7°♌44'20	2°53'36
min. Earth dist.	-8439 Apr 02 j 00:18	7°♌40'43	8.92931 AU
direct	-8439 Jun 10 j 09:41	4°♌25'13	
evening set	-8439 Sep 18 j 12:19	11°♌32'22	
conjunction	-8439 Oct 04 j 22:17	13°♌30'25	2°16'54
minimum elong	-8439 Oct 04 j 22:19	13°♌30'26	2°17'21
max. Earth dist.	-8439 Oct 04 j 00:19	13°♌23'48	10.85788 AU
	-8439 Oct 17 j 07:59	15°♌	
morning rise	-8439 Oct 21 j 10:24	15°♌29'15	
retrograde	-8438 Feb 01 j 23:47	22°♌52'24	
opposition	-8438 Apr 13 j 19:16	19°♌30'36	2°40'11
min. Earth dist.	-8438 Apr 14 j 13:32	19°♌27'10	8.78461 AU
direct	-8438 Jun 22 j 08:50	16°♌10'44	
evening set	-8438 Sep 30 j 07:53	23°♌24'57	
conjunction	-8438 Oct 16 j 20:51	25°♌25'50	2°02'35
minimum elong	-8438 Oct 16 j 20:54	25°♌25'51	2°02'57
max. Earth dist.	-8438 Oct 16 j 00:00	25°♌19'27	10.70637 AU
morning rise	-8438 Nov 02 j 13:11	27°♌27'49	
	-8438 Nov 24 j 13:51	0°♍	
retrograde	-8437 Feb 15 j 04:15	5°♍03'12	
opposition	-8437 Apr 26 j 18:08	1°♍39'27	2°19'14
min. Earth dist.	-8437 Apr 27 j 10:39	1°♍36'18	8.62653 AU

Attention, astronomical year style is used: The year -8437 in astronomical counting style is the year 8438 BCE in historical counting style.

	-8437 May 19 j 11:42	30°℞♌	
direct	-8437 Jul 04 j 14:09	28°♌18'43	
	-8437 Aug 18 j 01:41	0°♍	
evening set	-8437 Oct 12 j 13:07	5°♍41'15	
conjunction	-8437 Oct 29 j 06:16	7°♍45'28	1°42'15
minimum elong	-8437 Oct 29 j 06:20	7°♍45'30	1°42'32
max. Earth dist.	-8437 Oct 28 j 12:16	7°♍39'52	10.54470 AU
morning rise	-8437 Nov 15 j 03:44	9°♍51'05	
retrograde	-8436 Feb 28 j 18:12	17°♍39'36	
opposition	-8436 May 09 j 01:52	14°♍13'51	1°50'54
min. Earth dist.	-8436 May 09 j 15:30	14°♍11'13	8.46176 AU
direct	-8436 Jul 16 j 05:41	10°♍52'06	
evening set	-8436 Oct 24 j 06:11	18°♍24'06	
conjunction	-8436 Nov 10 j 04:29	20°♍32'04	1°16'18
minimum elong	-8436 Nov 10 j 04:33	20°♍32'05	1°16'28
max. Earth dist.	-8436 Nov 09 j 15:04	20°♍27'49	10.37991 AU
morning rise	-8436 Nov 27 j 07:40	22°♍41'39	
	-8435 Feb 12 j 13:56	0°♎	
retrograde	-8435 Mar 13 j 20:53	0°♎43'38	
	-8435 Apr 12 j 12:04	30°℞♍	
opposition	-8435 May 22 j 18:30	27°♍15'57	1°15'49
min. Earth dist.	-8435 May 23 j 03:57	27°♍14'05	8.29802 AU
direct	-8435 Jul 29 j 06:23	23°♍53'04	
	-8435 Oct 24 j 15:33	0°♎	
evening set	-8435 Nov 06 j 12:35	1°♎35'25	
conjunction	-8435 Nov 23 j 16:31	3°♎47'19	0°45'31
minimum elong	-8435 Nov 23 j 16:33	3°♎47'20	0°45'33
max. Earth dist.	-8435 Nov 23 j 08:07	3°♎44'37	10.22009 AU
morning rise	-8435 Dec 11 j 01:43	6°♎01'01	
retrograde	-8434 Mar 28 j 11:32	14°♎16'07	
opposition	-8434 Jun 05 j 20:14	10°♎46'39	0°35'12
min. Earth dist.	-8434 Jun 06 j 00:40	10°♎45'46	8.14385 AU
direct	-8434 Aug 11 j 15:39	7°♎22'37	
evening set	-8434 Nov 20 j 09:16	15°♎15'45	
conjunction	-8434 Dec 07 j 18:47	17°♎31'30	0°11'14
minimum elong	-8434 Dec 07 j 18:48	17°♎31'30	0°11'08
behind sun begin	-8434 Dec 07 j 13:26	17°♎29'46	
behind sun end	-8434 Dec 08 j 00:10	17°♎33'14	
max. Earth dist.	-8434 Dec 07 j 15:49	17°♎30'32	10.07410 AU
morning rise	-8434 Dec 25 j 09:54	19°♎49'08	
desc. node	-8433 Apr 06 j 02:58	28°♎13'59	
retrograde	-8433 Apr 12 j 12:08	28°♎16'09	
opposition	-8433 Jun 20 j 06:17	24°♎45'13	-0°08'59
min. Earth dist.	-8433 Jun 20 j 05:43	24°♎45'20	8.00844 AU
direct	-8433 Aug 25 j 11:07	21°♎19'57	
evening set	-8433 Dec 04 j 20:42	29°♎23'49	
	-8433 Dec 09 j 11:37	0°♏	
conjunction	-8433 Dec 22 j 11:30	1°♏43'03	-0°24'46
minimum elong	-8433 Dec 22 j 11:29	1°♏43'02	0°25'00
max. Earth dist.	-8433 Dec 22 j 14:14	1°♏43'57	9.95112 AU
morning rise	-8432 Jan 09 j 07:56	4°♏04'08	
retrograde	-8432 Apr 26 j 18:55	12°♏40'47	
opposition	-8432 Jul 03 j 23:07	9°♏08'47	-0°54'00
min. Earth dist.	-8432 Jul 03 j 17:52	9°♏09'52	7.90074 AU
direct	-8432 Sep 07 j 18:13	5°♏42'16	
evening set	-8432 Dec 18 j 21:51	13°♏56'03	
	-8432 Dec 26 j 23:30	15°♏	
conjunction	-8431 Jan 05 j 17:14	16°♏18'04	-0°59'59
minimum elong	-8431 Jan 05 j 17:11	16°♏18'03	1°00'21
max. Earth dist.	-8431 Jan 06 j 01:49	16°♏20'56	9.85961 AU
morning rise	-8431 Jan 23 j 17:50	18°♏41'47	
retrograde	-8431 May 12 j 05:37	27°♏24'46	
opposition	-8431 Jul 18 j 20:44	23°♏52'10	-1°36'32
min. Earth dist.	-8431 Jul 18 j 11:19	23°♏54'08	7.82841 AU
direct	-8431 Sep 22 j 10:15	20°♏24'32	
evening set	-8430 Jan 03 j 10:20	28°♏46'25	
	-8430 Jan 12 j 15:53	0°♐	
conjunction	-8430 Jan 21 j 09:13	1°♐10'17	-1°31'50
minimum elong	-8430 Jan 21 j 09:09	1°♐10'15	1°32'18
max. Earth dist.	-8430 Jan 21 j 23:44	1°♐15'10	9.80644 AU
morning rise	-8430 Feb 08 j 12:28	3°♐35'31	
retrograde	-8430 May 27 j 16:45	12°♐20'44	
opposition	-8430 Aug 02 j 20:27	8°♐48'04	-2°13'09
min. Earth dist.	-8430 Aug 02 j 07:10	8°♐50'52	7.79703 AU
direct	-8430 Oct 07 j 09:09	5°♐19'28	
evening set	-8429 Jan 19 j 06:29	13°♐46'45	
conjunction	-8429 Feb 06 j 07:46	16°♐11'22	-1°57'44
minimum elong	-8429 Feb 06 j 07:41	16°♐11'20	1°58'16
max. Earth dist.	-8429 Feb 07 j 03:38	16°♐18'02	9.79603 AU
morning rise	-8429 Feb 24 j 12:11	18°♐36'54	
retrograde	-8429 Jun 12 j 00:36	27°♐19'43	
opposition	-8429 Aug 17 j 19:17	23°♐47'32	-2°40'46
min. Earth dist.	-8429 Aug 17 j 02:42	23°♐51'02	7.80919 AU
direct	-8429 Oct 22 j 11:55	20°♐18'11	
evening set	-8428 Feb 04 j 05:35	28°♐47'29	
	-8428 Feb 13 j 09:13	0°♑	
conjunction	-8428 Feb 22 j 08:09	1°♑11'43	-2°15'40
minimum elong	-8428 Feb 22 j 08:06	1°♑11'42	2°16'14
max. Earth dist.	-8428 Feb 23 j 08:00	1°♑19'42	9.82935 AU
morning rise	-8428 Mar 11 j 12:22	3°♑36'24	
retrograde	-8428 Jun 26 j 02:01	12°♑12'18	
opposition	-8428 Aug 31 j 14:24	8°♑41'04	-2°57'17
min. Earth dist.	-8428 Aug 30 j 19:30	8°♑45'02	7.86375 AU
direct	-8428 Nov 05 j 16:03	5°♑11'15	
evening set	-8427 Feb 19 j 02:34	13°♑38'52	
conjunction	-8427 Mar 09 j 05:20	16°♑01'43	-2°24'24
minimum elong	-8427 Mar 09 j 05:19	16°♑01'43	2°24'57
max. Earth dist.	-8427 Mar 10 j 07:27	16°♑10'22	9.90360 AU
morning rise	-8427 Mar 27 j 08:12	18°♑24'30	
retrograde	-8427 Jul 10 j 17:57	26°♑49'39	
min. Earth dist.	-8427 Sep 14 j 07:11	23°♑23'58	7.95620 AU
opposition	-8427 Sep 15 j 03:10	23°♑19'48	-3°01'51
direct	-8427 Nov 20 j 17:56	19°♑49'50	
evening set	-8426 Mar 06 j 16:33	28°♑12'15	
	-8426 Mar 20 j 13:45	0°♒	
conjunction	-8426 Mar 24 j 18:41	0°♒32'55	-2°23'44
minimum elong	-8426 Mar 24 j 18:43	0°♒32'56	2°24'15
max. Earth dist.	-8426 Mar 25 j 21:11	0°♒41'34	10.01273 AU
morning rise	-8426 Apr 11 j 19:25	2°♒53'03	
retrograde	-8426 Jul 24 j 22:09	11°♒04'46	
opposition	-8426 Sep 29 j 07:43	7°♒36'36	-2°54'54
min. Earth dist.	-8426 Sep 28 j 12:21	7°♒40'37	8.07910 AU
direct	-8426 Dec 05 j 14:16	4°♒06'50	
evening set	-8425 Mar 21 j 19:55	12°♒21'16	
conjunction	-8425 Apr 08 j 20:44	14°♒39'13	-2°14'22
minimum elong	-8425 Apr 08 j 20:47	14°♒39'14	2°14'48
max. Earth dist.	-8425 Apr 09 j 21:23	14°♒47'07	10.14796 AU
	-8425 Apr 11 j 13:31	15°♒	
morning rise	-8425 Apr 26 j 18:51	16°♒56'15	
retrograde	-8425 Aug 07 j 14:11	24°♒53'13	
min. Earth dist.	-8425 Oct 12 j 10:00	21°♒30'29	8.22302 AU
opposition	-8425 Oct 13 j 03:00	21°♒27'00	-2°37'52

Attention, astronomical year style is used: The year -8425 in astronomical counting style is the year 8426 BCE in historical counting style.

direct	-8425 Dec 20 j 02:44	17°♒57'46	
evening set	-8424 Apr 04 j 10:49	26°♒02'28	
conjunction	-8424 Apr 22 j 09:34	28°♒17'23	-1°57'35
minimum elong	-8424 Apr 22 j 09:38	28°♒17'24	1°57'56
max. Earth dist.	-8424 Apr 23 j 06:25	28°♒23'57	10.29965 AU
	-8424 May 06 j 00:19	0°♓	
morning rise	-8424 May 10 j 04:37	0°♓31'05	
retrograde	-8424 Aug 19 j 18:35	8°♓13'15	
opposition	-8424 Oct 25 j 12:43	4°♓49'05	-2°12'45
min. Earth dist.	-8424 Oct 24 j 22:46	4°♓51'54	8.37916 AU
direct	-8423 Jan 02 j 06:04	1°♓20'42	
evening set	-8423 Apr 18 j 12:10	9°♓14'43	
conjunction	-8423 May 06 j 08:13	11°♓26'27	-1°35'03
minimum elong	-8423 May 06 j 08:17	11°♓26'29	1°35'17
max. Earth dist.	-8423 May 07 j 00:23	11°♓31'28	10.45966 AU
morning rise	-8423 May 23 j 23:54	13°♓36'46	
retrograde	-8423 Sep 01 j 10:15	21°♓04'53	
opposition	-8423 Nov 07 j 13:13	17°♓42'42	-1°41'48
min. Earth dist.	-8423 Nov 07 j 02:17	17°♓44'52	8.53994 AU
direct	-8422 Jan 16 j 01:04	14°♓15'23	
evening set	-8422 May 01 j 23:42	21°♓58'25	
conjunction	-8422 May 19 j 16:34	24°♓06'57	-1°08'31
minimum elong	-8422 May 19 j 16:37	24°♓06'58	1°08'38
max. Earth dist.	-8422 May 20 j 03:55	24°♓10'24	10.62041 AU
morning rise	-8422 Jun 06 j 04:34	26°♓13'56	
	-8422 Jul 10 j 10:08	0°♈	
retrograde	-8422 Sep 13 j 15:49	3°♈29'23	
opposition	-8422 Nov 20 j 04:54	0°♈09'01	-1°07'10
min. Earth dist.	-8422 Nov 19 j 20:45	0°♈10'36	8.69789 AU
	-8422 Nov 22 j 03:09	30°℞♓	
direct	-8421 Jan 29 j 10:04	26°♓42'54	
	-8421 Apr 05 j 01:58	0°♈	
evening set	-8421 May 14 j 22:29	4°♈15'18	
conjunction	-8421 Jun 01 j 11:45	6°♈20'43	-0°39'37
minimum elong	-8421 Jun 01 j 11:47	6°♈20'44	0°39'37
max. Earth dist.	-8421 Jun 01 j 18:55	6°♈22'52	10.77457 AU
morning rise	-8421 Jun 18 j 19:39	8°♈24'32	
retrograde	-8421 Sep 25 j 14:51	15°♈29'03	
opposition	-8421 Dec 02 j 12:47	12°♈10'18	-0°30'46
min. Earth dist.	-8421 Dec 02 j 08:08	12°♈11'11	8.84611 AU
direct	-8420 Feb 11 j 07:41	8°♈45'27	
evening set	-8420 May 26 j 09:34	16°♈08'04	
conjunction	-8420 Jun 12 j 18:46	18°♈10'34	-0°09'51
minimum elong	-8420 Jun 12 j 18:47	18°♈10'34	0°09'44
behind sun begin	-8420 Jun 12 j 12:57	18°♈08'52	
behind sun end	-8420 Jun 13 j 00:37	18°♈12'16	
max. Earth dist.	-8420 Jun 12 j 21:48	18°♈11'27	10.91561 AU
morning rise	-8420 Jun 29 j 22:24	20°♈11'29	
retrograde	-8420 Oct 06 j 04:55	27°♈07'04	
asc. node	-8420 Oct 15 j 12:01	27°♈02'37	
opposition	-8420 Dec 13 j 14:22	23°♈49'42	0°05'44
min. Earth dist.	-8420 Dec 13 j 13:57	23°♈49'46	8.97869 AU
direct	-8419 Feb 22 j 20:27	20°♈26'04	
evening set	-8419 Jun 07 j 10:13	27°♈40'05	
conjunction	-8419 Jun 24 j 14:59	29°♈39'55	0°19'39
minimum elong	-8419 Jun 24 j 14:58	29°♈39'55	0°19'52
max. Earth dist.	-8419 Jun 24 j 13:03	29°♈39'21	11.03815 AU
	-8419 Jun 27 j 11:39	0°♉	
morning rise	-8419 Jul 11 j 14:28	1°♉38'17	
retrograde	-8419 Oct 17 j 13:57	8°♉27'07	
opposition	-8419 Dec 25 j 10:38	5°♉10'47	0°41'00
min. Earth dist.	-8419 Dec 25 j 14:28	5°♉10'04	9.09075 AU
direct	-8418 Mar 07 j 02:43	1°♉48'19	
evening set	-8418 Jun 19 j 02:15	8°♉55'08	
conjunction	-8418 Jul 06 j 02:31	10°♉52'39	0°47'42
minimum elong	-8418 Jul 06 j 02:29	10°♉52'39	0°48'00
max. Earth dist.	-8418 Jul 05 j 19:27	10°♉50'36	11.13794 AU
morning rise	-8418 Jul 22 j 22:06	12°♉48'51	
	-8418 Aug 11 j 23:17	15°♉	
retrograde	-8418 Oct 28 j 18:49	19°♉33'03	
opposition	-8417 Jan 06 j 02:44	16°♉17'27	1°13'56
min. Earth dist.	-8417 Jan 06 j 09:43	16°♉16'09	9.17839 AU
	-8417 Jan 24 j 00:52	15°℞♉	
direct	-8417 Mar 19 j 01:14	12°♉56'02	
	-8417 May 10 j 13:22	15°♉	
evening set	-8417 Jun 30 j 11:16	19°♉57'10	
conjunction	-8417 Jul 17 j 07:19	21°♉52'48	1°13'31
minimum elong	-8417 Jul 17 j 07:17	21°♉52'47	1°13'54
max. Earth dist.	-8417 Jul 16 j 20:53	21°♉49'47	11.21168 AU
morning rise	-8417 Aug 02 j 23:05	23°♉47'16	
	-8417 Oct 15 j 19:14	0°♊	
retrograde	-8417 Nov 08 j 23:39	0°♊29'00	
	-8417 Dec 03 j 11:24	30°℞♉	
opposition	-8416 Jan 17 j 16:35	27°♉13'48	1°43'39
min. Earth dist.	-8416 Jan 18 j 02:17	27°♉12'01	9.23874 AU
direct	-8416 Mar 29 j 19:39	23°♉53'20	
	-8416 Jul 03 j 01:39	0°♊	
evening set	-8416 Jul 10 j 14:54	0°♊50'19	
conjunction	-8416 Jul 27 j 07:04	2°♊44'30	1°36'23
minimum elong	-8416 Jul 27 j 07:01	2°♊44'30	1°36'50
max. Earth dist.	-8416 Jul 26 j 17:52	2°♊40'43	11.25711 AU
morning rise	-8416 Aug 12 j 19:24	4°♊37'43	
retrograde	-8416 Nov 19 j 03:54	11°♊19'02	
opposition	-8415 Jan 28 j 05:34	8°♊03'57	2°09'24
min. Earth dist.	-8415 Jan 28 j 18:31	8°♊01'36	9.27009 AU
direct	-8415 Apr 10 j 07:38	4°♊44'17	
evening set	-8415 Jul 21 j 15:12	11°♊38'43	
max. Earth dist.	-8415 Aug 06 j 10:54	13°♊27'04	11.27307 AU
conjunction	-8415 Aug 07 j 03:50	13°♊31'56	1°55'41
minimum elong	-8415 Aug 07 j 03:47	13°♊31'56	1°56'11
morning rise	-8415 Aug 23 j 13:36	15°♊24'26	
retrograde	-8415 Nov 30 j 08:21	22°♊07'20	
opposition	-8414 Feb 08 j 18:48	18°♊52'04	2°30'30
min. Earth dist.	-8414 Feb 09 j 10:51	18°♊49'09	9.27159 AU
direct	-8414 Apr 21 j 17:51	15°♊32'58	
evening set	-8414 Aug 01 j 13:38	22°♊26'29	
conjunction	-8414 Aug 17 j 23:29	24°♊19'16	2°10'51
minimum elong	-8414 Aug 17 j 23:27	24°♊19'16	2°11'24
max. Earth dist.	-8414 Aug 17 j 03:49	24°♊13'36	11.25912 AU
morning rise	-8414 Sep 03 j 07:28	26°♊11'36	
	-8414 Oct 10 j 07:55	0°♋	
retrograde	-8414 Dec 11 j 17:33	2°♋58'02	
	-8413 Feb 16 j 08:02	30°℞♊	
opposition	-8413 Feb 20 j 09:54	29°♊42'15	2°46'23
min. Earth dist.	-8413 Feb 21 j 03:34	29°♊39'02	9.24298 AU
direct	-8413 May 03 j 04:41	26°♊23'34	
	-8413 Jul 12 j 05:53	0°♋	
evening set	-8413 Aug 12 j 11:53	3°♋17'38	
conjunction	-8413 Aug 28 j 19:59	5°♋10'35	2°21'25
minimum elong	-8413 Aug 28 j 19:57	5°♋10'34	2°21'58
max. Earth dist.	-8413 Aug 27 j 23:31	5°♋04'38	11.21549 AU
morning rise	-8413 Sep 14 j 02:53	7°♋03'18	

Attention, astronomical year style is used: The year -8413 in astronomical counting style is the year 8414 BCE in historical counting style.

retrograde	-8413 Dec 23 j 07:39	13°♋55'09	
opposition	-8412 Mar 03 j 04:20	10°♋38'33	2°56'27
min. Earth dist.	-8412 Mar 03 j 22:32	10°♋35'14	9.18501 AU
direct	-8412 May 13 j 14:43	7°♋20'06	
evening set	-8412 Aug 22 j 11:58	14°♋16'14	
conjunction	-8412 Sep 07 j 19:13	16°♋09'54	2°26'54
minimum elong	-8412 Sep 07 j 19:13	16°♋09'54	2°27'27
max. Earth dist.	-8412 Sep 06 j 21:50	16°♋03'38	11.14347 AU
morning rise	-8412 Sep 24 j 02:11	18°♋03'37	
retrograde	-8411 Jan 03 j 05:33	25°♋02'38	
opposition	-8411 Mar 15 j 03:19	21°♋44'56	3°00'10
min. Earth dist.	-8411 Mar 15 j 22:25	21°♋41'26	9.09948 AU
direct	-8411 May 25 j 02:42	18°♋26'29	
evening set	-8411 Sep 02 j 15:32	25°♋26'07	
conjunction	-8411 Sep 18 j 22:57	27°♋21'08	2°26'55
minimum elong	-8411 Sep 18 j 22:57	27°♋21'08	2°27'27
max. Earth dist.	-8411 Sep 18 j 00:30	27°♋14'29	11.04536 AU
morning rise	-8411 Oct 05 j 07:17	29°♋16'30	
	-8411 Oct 11 j 14:47	0°♌	
retrograde	-8410 Jan 15 j 08:19	6°♌24'17	
opposition	-8410 Mar 27 j 08:03	3°♌05'15	2°57'04
min. Earth dist.	-8410 Mar 28 j 03:37	3°♌01'38	8.98908 AU
	-8410 May 20 j 04:52	30℞♋	
direct	-8410 Jun 05 j 17:32	29°♋46'33	
	-8410 Jun 22 j 04:11	0°♌	
evening set	-8410 Sep 14 j 00:23	6°♌51'09	
max. Earth dist.	-8410 Sep 29 j 11:15	8°♌41'31	10.92430 AU
conjunction	-8410 Sep 30 j 09:11	8°♌48'06	2°21'09
minimum elong	-8410 Sep 30 j 09:13	8°♌48'07	2°21'37
morning rise	-8410 Oct 16 j 19:59	10°♌45'42	
	-8410 Nov 25 j 17:01	15°♌	
retrograde	-8409 Jan 27 j 21:27	18°♌03'49	
	-8409 Apr 05 j 01:10	15℞♌	
opposition	-8409 Apr 08 j 19:32	14°♌43'10	2°46'43
min. Earth dist.	-8409 Apr 09 j 14:09	14°♌39'42	8.85753 AU
direct	-8409 Jun 17 j 15:51	11°♌24'01	
	-8409 Aug 24 j 04:07	15°♌	
evening set	-8409 Sep 25 j 16:19	18°♌34'54	
max. Earth dist.	-8409 Oct 11 j 08:14	20°♌28'26	10.78449 AU
conjunction	-8409 Oct 12 j 03:51	20°♌34'24	2°09'21
minimum elong	-8409 Oct 12 j 03:54	20°♌34'25	2°09'46
morning rise	-8409 Oct 28 j 18:08	22°♌34'51	
	-8408 Jan 31 j 08:35	0°♍	
retrograde	-8408 Feb 09 j 22:11	0°♍04'32	
	-8408 Feb 19 j 11:49	30℞♌	
opposition	-8408 Apr 20 j 14:49	26°♌42'06	2°28'55
min. Earth dist.	-8408 Apr 21 j 06:56	26°♌39'04	8.70966 AU
direct	-8408 Jun 28 j 19:03	23°♌22'19	
	-8408 Oct 01 j 01:28	0°♍	
evening set	-8408 Oct 06 j 17:15	0°♍40'43	
conjunction	-8408 Oct 23 j 08:32	2°♍43'18	1°51'32
minimum elong	-8408 Oct 23 j 08:36	2°♍43'19	1°51'50
max. Earth dist.	-8408 Oct 22 j 15:13	2°♍37'56	10.63114 AU
morning rise	-8408 Nov 09 j 03:26	4°♍47'07	
retrograde	-8407 Feb 22 j 08:41	12°♍29'21	
opposition	-8407 May 03 j 18:34	9°♍05'01	2°03'39
min. Earth dist.	-8407 May 04 j 07:57	9°♍02'27	8.55112 AU
direct	-8407 Jul 11 j 05:11	5°♍44'20	
evening set	-8407 Oct 19 j 05:08	13°♍11'30	
max. Earth dist.	-8407 Nov 04 j 09:52	15°♍12'50	10.47024 AU
conjunction	-8407 Nov 05 j 00:58	15°♍17'35	1°27'54
minimum elong	-8407 Nov 05 j 01:02	15°♍17'36	1°28'05
morning rise	-8407 Nov 22 j 01:25	17°♍25'11	
retrograde	-8406 Mar 08 j 06:22	25°♍20'31	
opposition	-8406 May 17 j 07:05	21°♍54'16	1°31'22
min. Earth dist.	-8406 May 17 j 17:44	21°♍52'11	8.38837 AU
direct	-8406 Jul 24 j 00:52	18°♍32'31	
evening set	-8406 Nov 01 j 05:23	26°♍09'29	
conjunction	-8406 Nov 18 j 06:29	28°♍19'24	0°59'04
minimum elong	-8406 Nov 18 j 06:32	28°♍19'24	0°59'08
max. Earth dist.	-8406 Nov 17 j 18:40	28°♍15'37	10.30858 AU
	-8406 Dec 01 j 10:20	0°♎	
morning rise	-8406 Dec 05 j 13:00	0°♎31'03	
retrograde	-8405 Mar 22 j 15:16	8°♎39'37	
opposition	-8405 May 31 j 04:46	5°♎11'33	0°52'58
min. Earth dist.	-8405 May 31 j 12:15	5°♎10'04	8.22894 AU
direct	-8405 Aug 06 j 06:04	1°♎48'36	
evening set	-8405 Nov 14 j 19:19	9°♎36'12	
conjunction	-8405 Dec 02 j 02:11	11°♎50'02	0°26'07
minimum elong	-8405 Dec 02 j 02:12	11°♎50'02	0°26'04
max. Earth dist.	-8405 Dec 01 j 19:23	11°♎47'50	10.15437 AU
morning rise	-8405 Dec 19 j 14:45	14°♎05'45	
retrograde	-8404 Apr 05 j 10:15	22°♎26'55	
opposition	-8404 Jun 13 j 11:03	18°♎57'12	0°10'05
min. Earth dist.	-8404 Jun 13 j 14:11	18°♎56'34	8.08215 AU
direct	-8404 Aug 18 j 22:17	15°♎32'58	
desc. node	-8404 Sep 06 j 21:28	15°♎53'29	
evening set	-8404 Nov 28 j 00:03	23°♎31'30	
conjunction	-8404 Dec 15 j 12:33	25°♎49'02	-0°09'25
minimum elong	-8404 Dec 15 j 12:33	25°♎49'02	0°09'36
behind sun begin	-8404 Dec 15 j 06:34	25°♎47'05	
behind sun end	-8404 Dec 15 j 18:32	25°♎50'59	
max. Earth dist.	-8404 Dec 15 j 11:49	25°♎48'48	10.01744 AU
morning rise	-8403 Jan 02 j 06:40	28°♎08'28	
	-8403 Jan 17 j 00:44	0°♏	
retrograde	-8403 Apr 20 j 13:04	6°♏40'29	
opposition	-8403 Jun 28 j 00:39	3°♏09'24	-0°34'52
min. Earth dist.	-8403 Jun 27 j 22:45	3°♏09'47	7.95800 AU
	-8403 Aug 16 j 04:22	30℞♎	
direct	-8403 Sep 02 j 01:12	29°♎43'49	
	-8403 Sep 18 j 17:27	0°♏	
evening set	-8403 Dec 12 j 19:01	7°♏52'47	
conjunction	-8403 Dec 30 j 12:32	10°♏13'30	-0°45'11
minimum elong	-8403 Dec 30 j 12:29	10°♏13'29	0°45'29
max. Earth dist.	-8403 Dec 30 j 18:20	10°♏15'26	9.90748 AU
morning rise	-8402 Jan 17 j 11:13	12°♏35'58	
	-8402 Feb 05 j 11:23	15°♏	
retrograde	-8402 May 05 j 21:56	21°♏16'02	
opposition	-8402 Jul 12 j 20:07	17°♏43'56	-1°18'49
min. Earth dist.	-8402 Jul 12 j 12:59	17°♏45'24	7.86543 AU
	-8402 Aug 19 j 23:11	15℞♏	
direct	-8402 Sep 16 j 12:27	14°♏17'02	
	-8402 Oct 13 j 18:08	15°♏	
evening set	-8402 Dec 28 j 02:19	22°♏35'01	
conjunction	-8401 Jan 14 j 23:52	24°♏58'04	-1°18'45
minimum elong	-8401 Jan 14 j 23:48	24°♏58'03	1°19'11
max. Earth dist.	-8401 Jan 15 j 12:02	25°♏02'09	9.83268 AU
morning rise	-8401 Feb 02 j 01:52	27°♏22'37	
	-8401 Feb 22 j 18:42	0°♐	
retrograde	-8401 May 21 j 09:30	6°♐06'57	
opposition	-8401 Jul 27 j 18:51	2°♐34'19	-1°58'21
min. Earth dist.	-8401 Jul 27 j 07:07	2°♐36'46	7.81132 AU
	-8401 Aug 31 j 11:25	30℞♏	

Attention, astronomical year style is used: The year -8401 in astronomical counting style is the year 8402 BCE in historical counting style.

direct	-8401 Oct	01 j 07:20	29°♏06'10	
	-8401 Oct	31 j 20:49	0°♐	
evening set	-8400 Jan	12 j 19:13	7°♐30'57	
conjunction	-8400 Jan	30 j 19:38	9°♐55'17	-1°47'29
minimum elong	-8400 Jan	30 j 19:34	9°♐55'16	1°47'59
max. Earth dist.	-8400 Jan	31 j 13:10	10°♐01'10	9.79873 AU
morning rise	-8400 Feb	17 j 23:32	12°♐20'44	
retrograde	-8400 Jun	04 j 19:39	21°♐04'51	
opposition	-8400 Aug	10 j 17:57	17°♐32'15	-2°30'10
min. Earth dist.	-8400 Aug	10 j 02:55	17°♐35'25	7.79964 AU
direct	-8400 Oct	15 j 07:41	14°♐03'01	
evening set	-8399 Jan	27 j 17:13	22°♐31'34	
conjunction	-8399 Feb	14 j 19:18	24°♐56'03	-2°09'04
minimum elong	-8399 Feb	14 j 19:15	24°♐56'02	2°09'36
max. Earth dist.	-8399 Feb	15 j 16:51	25°♐03'16	9.80814 AU
morning rise	-8399 Mar	04 j 23:38	27°♐21'12	
	-8399 Mar	25 j 21:44	0°♑	
retrograde	-8399 Jun	20 j 00:45	6°♑00'31	
opposition	-8399 Aug	25 j 14:42	2°♑28'29	-2°51'42
min. Earth dist.	-8399 Aug	24 j 21:32	2°♑32'06	7.83101 AU
	-8399 Sep	27 j 07:52	30°℞♐	
direct	-8399 Oct	30 j 11:23	28°♐58'29	
	-8399 Dec	02 j 12:09	0°♑	