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 Mar 02 j 10:04	16°♑25'52	
conjunction	-8900 Mar 16 j 03:30	19°♑32'57	-1°25'29
minimum elong	-8900 Mar 16 j 03:34	19°♑33'00	1°26'01
max. Earth dist.	-8900 Mar 16 j 23:16	19°♑44'13	6.16697 AU
morning rise	-8900 Mar 29 j 20:15	22°♑39'35	
	-8900 May 02 j 13:54	0°♒	
retrograde	-8900 Aug 02 j 07:18	11°♒15'17	
opposition	-8900 Sep 30 j 08:41	6°♒14'43	-1°42'45
min. Earth dist.	-8900 Sep 30 j 02:52	6°♒16'41	4.20973 AU
direct	-8900 Nov 29 j 08:55	1°♒11'08	
	-8899 Mar 15 j 07:43	15°♒	
evening set	-8899 Apr 06 j 20:17	19°♒54'25	
conjunction	-8899 Apr 20 j 11:06	22°♒57'05	-0°47'36
minimum elong	-8899 Apr 20 j 11:10	22°♒57'07	0°48'00
max. Earth dist.	-8899 Apr 20 j 09:44	22°♒56'19	6.25078 AU
morning rise	-8899 May 03 j 23:33	25°♒58'25	
	-8899 May 22 j 09:08	0°♓	
retrograde	-8899 Sep 03 j 09:30	13°♓47'26	
opposition	-8899 Nov 01 j 17:29	8°♓50'41	-0°33'44
min. Earth dist.	-8899 Nov 02 j 00:14	8°♓48'26	4.28761 AU
direct	-8898 Jan 01 j 23:05	3°♓46'25	
asc. node	-8898 Apr 21 j 20:02	18°♓05'47	
evening set	-8898 May 10 j 16:15	22°♓10'35	
max. Earth dist.	-8898 May 23 j 04:43	24°♓56'58	6.31746 AU
conjunction	-8898 May 24 j 00:03	25°♓07'42	0°04'21
minimum elong	-8898 May 24 j 00:03	25°♓07'42	0°04'14
behind sun begin	-8898 May 23 j 16:01	25°♓03'16	
behind sun end	-8898 May 24 j 08:04	25°♓12'08	
morning rise	-8898 Jun 06 j 04:20	28°♓03'02	
	-8898 Jun 15 j 01:51	0°♈	
retrograde	-8898 Oct 04 j 21:44	15°♈22'56	
opposition	-8898 Dec 03 j 17:33	10°♈29'26	0°43'27
min. Earth dist.	-8898 Dec 04 j 11:23	10°♈23'38	4.33805 AU
direct	-8897 Feb 03 j 21:36	5°♈26'22	
evening set	-8897 Jun 12 j 02:14	23°♈36'23	
max. Earth dist.	-8897 Jun 23 j 16:21	26°♈10'27	6.34721 AU
conjunction	-8897 Jun 25 j 00:15	26°♈28'10	0°54'01
minimum elong	-8897 Jun 25 j 00:10	26°♈28'08	0°54'13
morning rise	-8897 Jul 07 j 19:02	29°♈18'20	
	-8897 Jul 10 j 22:38	0°♉	
	-8897 Oct 04 j 20:09	15°♉	
retrograde	-8897 Nov 05 j 11:47	16°♉32'57	
	-8897 Dec 07 j 07:46	15°℞♉	
opposition	-8896 Jan 04 j 22:37	11°♉41'09	1°47'08
min. Earth dist.	-8896 Jan 05 j 22:20	11°♉33'33	4.34636 AU
direct	-8896 Mar 07 j 11:29	6°♉40'25	
	-8896 May 26 j 13:41	15°♉	
evening set	-8896 Jul 12 j 14:06	24°♉44'37	
max. Earth dist.	-8896 Jul 23 j 18:41	27°♉14'44	6.33223 AU
conjunction	-8896 Jul 25 j 03:33	27°♉33'11	1°27'54
minimum elong	-8896 Jul 25 j 03:30	27°♉33'08	1°28'19
	-8896 Aug 05 j 01:34	0°♊	
morning rise	-8896 Aug 06 j 14:36	0°♊20'40	
retrograde	-8896 Dec 06 j 19:30	17°♊53'01	
opposition	-8895 Feb 05 j 20:46	13°♊01'10	2°20'15
min. Earth dist.	-8895 Feb 06 j 19:19	12°♊54'01	4.31017 AU
direct	-8895 Apr 09 j 02:24	8°♊03'30	
evening set	-8895 Aug 12 j 19:12	26°♊10'04	
max. Earth dist.	-8895 Aug 24 j 01:34	28°♊43'35	6.27681 AU
conjunction	-8895 Aug 25 j 04:36	28°♊58'59	1°36'21
minimum elong	-8895 Aug 25 j 04:37	28°♊58'59	1°36'55
	-8895 Aug 29 j 15:46	0°♋	
morning rise	-8895 Sep 06 j 13:38	1°♋47'47	
retrograde	-8894 Jan 09 j 11:19	19°♋56'15	
opposition	-8894 Mar 11 j 20:20	15°♋02'25	2°12'02
min. Earth dist.	-8894 Mar 12 j 10:53	14°♋57'48	4.23931 AU
direct	-8894 May 12 j 05:02	10°♋07'32	
evening set	-8894 Sep 13 j 10:47	28°♋23'26	
	-8894 Sep 20 j 10:19	0°♌	
conjunction	-8894 Sep 25 j 23:02	1°♌16'47	1°15'32
minimum elong	-8894 Sep 25 j 23:07	1°♌16'50	1°16'02
max. Earth dist.	-8894 Sep 25 j 12:17	1°♌10'34	6.19689 AU
morning rise	-8894 Oct 08 j 12:32	4°♌10'59	
	-8894 Nov 28 j 06:33	15°♌	
retrograde	-8893 Feb 13 j 12:23	23°♌05'01	
opposition	-8893 Apr 15 j 21:15	18°♌07'48	1°21'14
min. Earth dist.	-8893 Apr 15 j 22:12	18°♌07'30	4.15539 AU
	-8893 May 12 j 07:04	15°℞♌	
direct	-8893 Jun 14 j 23:45	13°♌14'43	
	-8893 Jul 18 j 07:21	15°♌	
	-8893 Oct 08 j 17:21	0°♍	
evening set	-8893 Oct 16 j 07:28	1°♍45'25	
conjunction	-8893 Oct 29 j 03:22	4°♍45'37	0°29'36
minimum elong	-8893 Oct 29 j 03:25	4°♍45'39	0°29'54
max. Earth dist.	-8893 Oct 29 j 11:13	4°♍50'13	6.11723 AU
morning rise	-8893 Nov 11 j 02:18	7°♍47'31	
retrograde	-8892 Mar 20 j 16:04	27°♍23'46	
opposition	-8892 May 20 j 15:15	22°♍22'34	0°00'46
min. Earth dist.	-8892 May 20 j 02:11	22°♍26'52	4.08606 AU
desc. node	-8892 May 24 j 02:38	21°♍55'07	
direct	-8892 Jul 18 j 13:18	17°♍29'24	
	-8892 Oct 22 j 05:30	0°♎	
evening set	-8892 Nov 18 j 21:04	6°♎17'45	
conjunction	-8892 Dec 02 j 02:17	9°♎24'19	-0°27'41
minimum elong	-8892 Dec 02 j 02:14	9°♎24'17	0°27'42
max. Earth dist.	-8892 Dec 03 j 05:52	9°♎40'34	6.06495 AU
morning rise	-8892 Dec 15 j 10:52	12°♎32'44	
	-8891 Mar 16 j 08:34	0°♏	
retrograde	-8891 Apr 26 j 04:35	2°♏32'33	
	-8891 Jun 05 j 19:07	30°℞♎	
opposition	-8891 Jun 25 j 11:40	27°♎28'19	-1°21'46
min. Earth dist.	-8891 Jun 24 j 13:46	27°♎35'42	4.05664 AU
direct	-8891 Aug 22 j 16:28	22°♎33'13	
	-8891 Nov 01 j 07:21	0°♏	
evening set	-8891 Dec 25 j 01:53	11°♏36'08	
conjunction	-8890 Jan 07 j 14:04	14°♏45'49	-1°15'33
minimum elong	-8890 Jan 07 j 13:59	14°♏45'46	1°15'54
	-8890 Jan 08 j 14:16	15°♏	
max. Earth dist.	-8890 Jan 09 j 01:55	15°♏06'50	6.05984 AU
morning rise	-8890 Jan 21 j 05:20	17°♏57'00	
	-8890 Mar 18 j 11:30	0°♐	
retrograde	-8890 Jun 01 j 01:54	7°♐50'15	
opposition	-8890 Jul 30 j 17:36	2°♐45'06	-2°14'18
min. Earth dist.	-8890 Jul 29 j 18:07	2°♐53'07	4.07776 AU
	-8890 Aug 21 j 03:49	30°℞♏	
direct	-8890 Sep 26 j 23:14	27°♏46'41	
	-8890 Nov 02 j 22:10	0°♐	
evening set	-8889 Jan 31 j 01:08	16°♐53'52	
conjunction	-8889 Feb 13 j 17:31	20°♐03'12	-1°35'37

Attention, astronomical year style is used: The year -8889 in astronomical counting style is the year 8890 BCE in historical counting style.

minimum elong	-8889 Feb 13 j 17:31	20°♐03'11	1°36'10
max. Earth dist.	-8889 Feb 15 j 02:21	20°♐22'10	6.10411 AU
morning rise	-8889 Feb 27 j 11:00	23°♐12'59	
	-8889 Mar 30 j 00:26	0°♑	
retrograde	-8889 Jul 05 j 18:20	12°♑30'30	
opposition	-8889 Sep 02 j 22:16	7°♑27'02	-2°17'39
min. Earth dist.	-8889 Sep 02 j 06:37	7°♑32'23	4.14107 AU
direct	-8889 Oct 31 j 22:48	2°♑25'20	
evening set	-8888 Mar 07 j 13:23	21°♑23'11	
conjunction	-8888 Mar 21 j 06:37	24°♑29'37	-1°21'32
minimum elong	-8888 Mar 21 j 06:42	24°♑29'39	1°22'04
max. Earth dist.	-8888 Mar 21 j 23:10	24°♑39'00	6.18100 AU
morning rise	-8888 Apr 03 j 23:02	27°♑35'28	
	-8888 Apr 14 j 17:53	0°♒	
	-8888 Jul 12 j 11:46	15°♒	
retrograde	-8888 Aug 06 j 20:43	16°♒03'07	
	-8888 Sep 01 j 02:13	15℞♒	
opposition	-8888 Oct 04 j 23:54	11°♒03'02	-1°34'20
min. Earth dist.	-8888 Oct 04 j 19:20	11°♒04'35	4.22354 AU
direct	-8888 Dec 04 j 04:02	5°♒59'12	
	-8887 Feb 24 j 13:10	15°♒	
evening set	-8887 Apr 11 j 17:32	24°♒39'02	
conjunction	-8887 Apr 25 j 07:36	27°♒40'52	-0°40'43
minimum elong	-8887 Apr 25 j 07:39	27°♒40'54	0°41'04
max. Earth dist.	-8887 Apr 25 j 03:13	27°♒38'25	6.26345 AU
	-8887 May 05 j 16:46	0°♓	
morning rise	-8887 May 08 j 19:04	0°♓41'17	
retrograde	-8887 Sep 07 j 21:31	18°♓24'26	
opposition	-8887 Nov 06 j 06:19	13°♓28'13	-0°22'47
min. Earth dist.	-8887 Nov 06 j 15:31	13°♓25'10	4.29801 AU
direct	-8886 Jan 06 j 16:22	8°♓24'03	
asc. node	-8886 Mar 01 j 01:08	12°♓25'40	
evening set	-8886 May 15 j 07:50	26°♓45'26	
conjunction	-8886 May 28 j 14:21	29°♓41'44	0°11'49
minimum elong	-8886 May 28 j 14:20	29°♓41'43	0°11'45
behind sun begin	-8886 May 28 j 08:39	29°♓38'35	
behind sun end	-8886 May 28 j 20:02	29°♓44'52	
max. Earth dist.	-8886 May 27 j 16:03	29°♓29'22	6.32470 AU
	-8886 May 29 j 23:17	0°♈	
morning rise	-8886 Jun 10 j 17:22	2°♈36'14	
retrograde	-8886 Oct 09 j 07:35	19°♈53'53	
opposition	-8886 Dec 08 j 05:57	15°♈00'41	0°53'42
min. Earth dist.	-8886 Dec 09 j 00:51	14°♈54'33	4.34193 AU
direct	-8885 Feb 08 j 11:55	9°♈57'50	
evening set	-8885 Jun 16 j 14:03	28°♈06'42	
	-8885 Jun 25 j 02:38	0°♉	
max. Earth dist.	-8885 Jun 28 j 02:41	0°♉40'04	6.34738 AU
conjunction	-8885 Jun 29 j 10:45	0°♉57'54	1°00'02
minimum elong	-8885 Jun 29 j 10:41	0°♉57'52	1°00'16
morning rise	-8885 Jul 12 j 04:10	3°♉47'31	
	-8885 Sep 05 j 19:06	15°♉	
retrograde	-8885 Nov 09 j 23:50	21°♉03'31	
opposition	-8884 Jan 09 j 12:52	16°♉11'53	1°54'00
min. Earth dist.	-8884 Jan 10 j 13:14	16°♉04'06	4.34302 AU
	-8884 Jan 19 j 00:11	15℞♉	
direct	-8884 Mar 12 j 01:56	11°♉11'36	
	-8884 May 03 j 04:48	15°♉	
evening set	-8884 Jul 17 j 00:18	29°♉16'07	
	-8884 Jul 20 j 06:53	0°♊	
max. Earth dist.	-8884 Jul 28 j 02:50	1°♊45'28	6.32540 AU
conjunction	-8884 Jul 29 j 12:46	2°♊04'32	1°30'47
minimum elong	-8884 Jul 29 j 12:43	2°♊04'30	1°31'15
morning rise	-8884 Aug 10 j 23:20	4°♊52'03	
retrograde	-8884 Dec 11 j 12:28	22°♊29'03	
opposition	-8883 Feb 10 j 14:50	17°♊37'03	2°21'45
min. Earth dist.	-8883 Feb 11 j 12:42	17°♊30'06	4.30053 AU
direct	-8883 Apr 13 j 18:06	12°♊39'48	
	-8883 Aug 13 j 17:15	0°♋	
evening set	-8883 Aug 17 j 06:06	0°♋47'54	
conjunction	-8883 Aug 29 j 15:40	3°♋37'19	1°35'10
minimum elong	-8883 Aug 29 j 15:42	3°♋37'20	1°35'44
max. Earth dist.	-8883 Aug 28 j 15:50	3°♋23'42	6.26532 AU
morning rise	-8883 Sep 11 j 00:49	6°♋26'42	
retrograde	-8882 Jan 14 j 09:03	24°♋41'44	
opposition	-8882 Mar 16 j 18:36	19°♋47'35	2°07'16
min. Earth dist.	-8882 Mar 17 j 07:18	19°♋43'33	4.22694 AU
direct	-8882 May 16 j 23:06	14°♋53'09	
	-8882 Sep 04 j 01:10	0°♌	
evening set	-8882 Sep 18 j 01:20	3°♌11'08	
conjunction	-8882 Sep 30 j 14:17	6°♌05'21	1°10'18
minimum elong	-8882 Sep 30 j 14:21	6°♌05'24	1°10'48
max. Earth dist.	-8882 Sep 30 j 05:23	6°♌00'11	6.18494 AU
morning rise	-8882 Oct 13 j 05:01	9°♌00'36	
	-8882 Nov 08 j 22:41	15°♌	
retrograde	-8881 Feb 18 j 14:40	28°♌01'07	
opposition	-8881 Apr 20 j 22:39	23°♌03'20	1°11'05
min. Earth dist.	-8881 Apr 20 j 21:03	23°♌03'51	4.14483 AU
direct	-8881 Jun 19 j 20:37	18°♌10'22	
	-8881 Sep 21 j 07:53	0°♍	
evening set	-8881 Oct 21 j 02:55	6°♍43'09	
conjunction	-8881 Nov 03 j 00:15	9°♍44'19	0°21'44
minimum elong	-8881 Nov 03 j 00:17	9°♍44'20	0°21'59
max. Earth dist.	-8881 Nov 03 j 12:42	9°♍51'37	6.10930 AU
morning rise	-8881 Nov 16 j 00:30	12°♍47'10	
	-8880 Feb 14 j 09:52	0°♎	
retrograde	-8880 Mar 25 j 20:27	2°♎27'23	
desc. node	-8880 Apr 02 j 21:46	2°♎21'11	
	-8880 May 05 j 06:09	30℞♍	
opposition	-8880 May 25 j 17:35	27°♍25'43	-0°11'33
min. Earth dist.	-8880 May 25 j 03:06	27°♍30'30	4.08159 AU
direct	-8880 Jul 23 j 12:43	22°♍32'27	
	-8880 Oct 02 j 09:50	0°♎	
evening set	-8880 Nov 23 j 21:47	11°♎22'08	
conjunction	-8880 Dec 07 j 03:54	14°♎29'09	-0°35'29
minimum elong	-8880 Dec 07 j 03:51	14°♎29'07	0°35'33
max. Earth dist.	-8880 Dec 08 j 08:21	14°♎45'54	6.06407 AU
morning rise	-8880 Dec 20 j 13:45	17°♎38'05	
	-8879 Feb 16 j 07:27	0°♏	
retrograde	-8879 May 01 j 05:36	7°♏37'43	
opposition	-8879 Jun 30 j 11:45	2°♏33'12	-1°31'32
min. Earth dist.	-8879 Jun 29 j 12:29	2°♏41'03	4.05959 AU
	-8879 Jul 20 j 10:19	30℞♎	
direct	-8879 Aug 27 j 15:47	27°♎37'40	
	-8879 Oct 04 j 17:17	0°♏	
	-8879 Dec 22 j 23:20	15°♏	
evening set	-8879 Dec 30 j 05:31	16°♏40'46	
conjunction	-8878 Jan 12 j 18:31	19°♏50'27	-1°20'18
minimum elong	-8878 Jan 12 j 18:26	19°♏50'24	1°20'41
max. Earth dist.	-8878 Jan 14 j 07:38	20°♏12'09	6.06615 AU
morning rise	-8878 Jan 26 j 10:05	23°♏01'26	
	-8878 Feb 26 j 11:57	0°♐	
retrograde	-8878 Jun 06 j 00:42	12°♐50'14	
opposition	-8878 Aug 04 j 13:39	7°♐45'11	-2°17'49
min. Earth dist.	-8878 Aug 03 j 15:53	7°♐52'38	4.08676 AU

Attention, astronomical year style is used: The year -8878 in astronomical counting style is the year 8879 BCE in historical counting style.

direct	-8878 Oct 01 j 21:50	2°♐46'17	
evening set	-8877 Feb 05 j 04:06	21°♐52'10	
conjunction	-8877 Feb 18 j 20:43	25°♐01'08	-1°35'38
minimum elong	-8877 Feb 18 j 20:44	25°♐01'08	1°36'12
max. Earth dist.	-8877 Feb 20 j 03:09	25°♐18'39	6.11480 AU
morning rise	-8877 Mar 04 j 14:19	28°♐10'27	
	-8877 Mar 12 j 15:09	0°♑	
retrograde	-8877 Jul 10 j 09:31	17°♑21'06	
opposition	-8877 Sep 07 j 13:51	12°♑18'02	-2°14'06
min. Earth dist.	-8877 Sep 06 j 23:07	12°♑23'04	4.15240 AU
direct	-8877 Nov 05 j 16:44	7°♑15'58	
evening set	-8876 Mar 12 j 12:31	26°♑11'39	
conjunction	-8876 Mar 26 j 05:33	29°♑17'34	-1°17'10
minimum elong	-8876 Mar 26 j 05:38	29°♑17'37	1°17'42
max. Earth dist.	-8876 Mar 26 j 18:16	29°♑24'46	6.19217 AU
	-8876 Mar 29 j 08:30	0°♒	
morning rise	-8876 Apr 08 j 21:34	2°♒22'47	
	-8876 Jun 10 j 02:21	15°♒	
retrograde	-8876 Aug 11 j 10:05	20°♒44'04	
opposition	-8876 Oct 09 j 12:39	15°♒44'34	-1°25'34
min. Earth dist.	-8876 Oct 09 j 11:08	15°♒45'04	4.23330 AU
	-8876 Oct 15 j 01:18	15°℞♒	
direct	-8876 Dec 08 j 21:54	10°♒40'35	
	-8875 Feb 01 j 14:33	15°♒	
evening set	-8875 Apr 16 j 12:01	29°♒18'24	
	-8875 Apr 19 j 14:58	0°♓	
conjunction	-8875 Apr 30 j 01:25	2°♓19'39	-0°33'45
minimum elong	-8875 Apr 30 j 01:29	2°♓19'41	0°34'03
max. Earth dist.	-8875 Apr 29 j 18:23	2°♓15'44	6.27121 AU
morning rise	-8875 May 13 j 11:54	5°♓19'22	
retrograde	-8875 Sep 12 j 06:47	22°♓58'39	
opposition	-8875 Nov 10 j 17:50	18°♓02'55	-0°11'53
min. Earth dist.	-8875 Nov 11 j 04:02	17°♓59'33	4.30330 AU
asc. node	-8874 Jan 09 j 07:34	12°♓59'11	
direct	-8874 Jan 11 j 06:16	12°♓58'50	
	-8874 May 13 j 21:55	0°♈	
evening set	-8874 May 19 j 22:33	1°♈19'14	
max. Earth dist.	-8874 Jun 01 j 03:15	4°♈01'18	6.32727 AU
conjunction	-8874 Jun 02 j 03:45	4°♈14'54	0°19'10
minimum elong	-8874 Jun 02 j 03:43	4°♈14'53	0°19'08
morning rise	-8874 Jun 15 j 05:32	7°♈08'47	
retrograde	-8874 Oct 13 j 19:37	24°♈25'47	
opposition	-8874 Dec 12 j 18:54	19°♈32'58	1°03'36
min. Earth dist.	-8874 Dec 13 j 15:31	19°♈26'17	4.34174 AU
direct	-8873 Feb 13 j 03:20	14°♈30'26	
	-8873 Jun 08 j 22:46	0°♉	
evening set	-8873 Jun 21 j 01:59	2°♉39'09	
conjunction	-8873 Jul 03 j 21:26	5°♉29'55	1°05'41
minimum elong	-8873 Jul 03 j 21:22	5°♉29'52	1°05'56
max. Earth dist.	-8873 Jul 02 j 12:34	5°♉11'36	6.34431 AU
morning rise	-8873 Jul 16 j 13:44	8°♉19'09	
	-8873 Aug 16 j 20:23	15°♉	
retrograde	-8873 Nov 14 j 13:13	25°♉37'36	
opposition	-8872 Jan 14 j 04:41	20°♉45'59	2°00'12
min. Earth dist.	-8872 Jan 15 j 04:16	20°♉38'28	4.33763 AU
direct	-8872 Mar 16 j 16:25	15°♉46'06	
	-8872 Jul 03 j 22:18	0°♊	
evening set	-8872 Jul 21 j 11:21	3°♊51'09	
conjunction	-8872 Aug 02 j 23:05	6°♊39'29	1°33'07
minimum elong	-8872 Aug 02 j 23:03	6°♊39'28	1°33'37
max. Earth dist.	-8872 Aug 01 j 15:34	6°♊21'44	6.31812 AU
morning rise	-8872 Aug 15 j 08:57	9°♊27'01	
retrograde	-8872 Dec 16 j 06:40	27°♊08'32	
opposition	-8871 Feb 15 j 10:15	22°♊16'21	2°22'20
min. Earth dist.	-8871 Feb 16 j 07:18	22°♊09'40	4.29188 AU
direct	-8871 Apr 18 j 11:34	17°♊19'33	
	-8871 Jul 27 j 23:17	0°♋	
evening set	-8871 Aug 21 j 18:00	5°♋28'21	
max. Earth dist.	-8871 Sep 02 j 04:41	8°♋05'04	6.25591 AU
conjunction	-8871 Sep 03 j 03:32	8°♋18'08	1°33'21
minimum elong	-8871 Sep 03 j 03:34	8°♋18'10	1°33'54
morning rise	-8871 Sep 15 j 13:12	11°♋08'06	
retrograde	-8870 Jan 19 j 06:49	29°♋28'38	
opposition	-8870 Mar 21 j 17:14	24°♋33'57	2°01'35
min. Earth dist.	-8870 Mar 22 j 03:22	24°♋30'43	4.21726 AU
direct	-8870 May 21 j 17:26	19°♋39'45	
	-8870 Aug 17 j 09:52	0°♌	
evening set	-8870 Sep 22 j 15:40	7°♌58'41	
conjunction	-8870 Oct 05 j 05:41	10°♌53'43	1°04'35
minimum elong	-8870 Oct 05 j 05:45	10°♌53'45	1°05'04
max. Earth dist.	-8870 Oct 05 j 01:00	10°♌51'00	6.17589 AU
morning rise	-8870 Oct 17 j 21:23	13°♌49'50	
	-8870 Oct 22 j 23:28	15°♌	
	-8869 Jan 10 j 02:37	0°♍	
retrograde	-8869 Feb 23 j 16:39	2°♍55'31	
	-8869 Apr 09 j 15:59	30°℞♌	
opposition	-8869 Apr 25 j 23:24	27°♌57'10	1°00'26
min. Earth dist.	-8869 Apr 25 j 20:27	27°♌58'08	4.13687 AU
direct	-8869 Jun 24 j 18:10	23°♌04'17	
	-8869 Sep 01 j 11:48	0°♍	
evening set	-8869 Oct 25 j 21:55	11°♍38'22	
conjunction	-8869 Nov 07 j 20:17	14°♍40'18	0°13'46
minimum elong	-8869 Nov 07 j 20:19	14°♍40'19	0°13'58
behind sun begin	-8869 Nov 07 j 16:06	14°♍37'51	
behind sun end	-8869 Nov 08 j 00:32	14°♍42'47	
max. Earth dist.	-8869 Nov 08 j 09:53	14°♍48'16	6.10307 AU
morning rise	-8869 Nov 20 j 22:04	17°♍44'03	
	-8868 Jan 17 j 10:47	0°♎	
desc. node	-8868 Feb 11 j 17:13	4°♎01'16	
retrograde	-8868 Mar 30 j 21:29	7°♎27'32	
opposition	-8868 May 30 j 18:07	2°♎25'21	-0°23'41
min. Earth dist.	-8868 May 30 j 01:25	2°♎30'53	4.07772 AU
	-8868 Jun 18 j 22:03	30°℞♍	
direct	-8868 Jul 28 j 10:05	27°♍31'50	
	-8868 Sep 05 j 11:05	0°♎	
evening set	-8868 Nov 28 j 21:46	16°♎23'06	
conjunction	-8868 Dec 12 j 05:06	19°♎30'38	-0°42'58
minimum elong	-8868 Dec 12 j 05:02	19°♎30'35	0°43'06
max. Earth dist.	-8868 Dec 13 j 12:09	19°♎48'54	6.06290 AU
morning rise	-8868 Dec 25 j 15:46	22°♎39'59	
	-8867 Jan 27 j 05:04	0°♏	
retrograde	-8867 May 06 j 08:03	12°♏39'30	
opposition	-8867 Jul 05 j 10:30	7°♏34'47	-1°40'36
min. Earth dist.	-8867 Jul 04 j 12:02	7°♏42'23	4.06138 AU
direct	-8867 Sep 01 j 14:56	2°♏38'48	
	-8867 Dec 05 j 13:58	15°♏	
evening set	-8866 Jan 04 j 08:49	21°♏42'49	
conjunction	-8866 Jan 17 j 22:25	24°♏52'34	-1°24'27
minimum elong	-8866 Jan 17 j 22:20	24°♏52'31	1°24'52
max. Earth dist.	-8866 Jan 19 j 10:43	25°♏13'44	6.07049 AU
morning rise	-8866 Jan 31 j 14:35	28°♏03'32	
	-8866 Feb 09 j 01:00	0°♐	
retrograde	-8866 Jun 10 j 21:03	17°♐48'28	

Attention, astronomical year style is used: The year -8866 in astronomical counting style is the year 8867 BCE in historical counting style.

min. Earth dist.	-8866 Aug 08 j 11:21	12°♐51'02	4.09347 AU
opposition	-8866 Aug 09 j 09:05	12°♐43'36	-2°20'23
direct	-8866 Oct 06 j 17:52	7°♐44'13	
evening set	-8865 Feb 10 j 07:13	26°♐49'45	
conjunction	-8865 Feb 24 j 00:04	29°♐58'27	-1°34'59
minimum elong	-8865 Feb 24 j 00:05	29°♐58'28	1°35'32
	-8865 Feb 24 j 02:45	0°♑	
max. Earth dist.	-8865 Feb 25 j 03:38	0°♑14'18	6.12319 AU
morning rise	-8865 Mar 09 j 17:40	3°♑07'23	
retrograde	-8865 Jul 15 j 03:11	22°♑12'04	
opposition	-8865 Sep 12 j 06:03	17°♑09'26	-2°09'38
min. Earth dist.	-8865 Sep 11 j 17:58	17°♑13'34	4.16149 AU
direct	-8865 Nov 10 j 13:43	12°♑06'59	
	-8864 Mar 12 j 23:00	0°♒	
evening set	-8864 Mar 17 j 12:27	1°♒01'16	
conjunction	-8864 Mar 31 j 05:26	4°♒06'46	-1°12'14
minimum elong	-8864 Mar 31 j 05:31	4°♒06'49	1°12'45
max. Earth dist.	-8864 Mar 31 j 16:14	4°♒12'52	6.20136 AU
morning rise	-8864 Apr 13 j 20:52	7°♒11'23	
	-8864 May 20 j 04:23	15°♒	
retrograde	-8864 Aug 15 j 22:43	25°♒26'53	
opposition	-8864 Oct 14 j 02:18	20°♒27'57	-1°16'10
min. Earth dist.	-8864 Oct 14 j 01:46	20°♒28'08	4.24175 AU
direct	-8864 Dec 13 j 14:21	15°♒23'53	
	-8863 Apr 02 j 22:55	0°♓	
evening set	-8863 Apr 21 j 07:44	4°♓00'08	
conjunction	-8863 May 04 j 20:08	7°♓00'44	-0°26'27
minimum elong	-8863 May 04 j 20:11	7°♓00'46	0°26'44
max. Earth dist.	-8863 May 04 j 09:20	6°♓54'43	6.27835 AU
morning rise	-8863 May 18 j 05:45	9°♓59'48	
retrograde	-8863 Sep 16 j 19:57	27°♓35'33	
opposition	-8863 Nov 15 j 07:10	22°♓40'21	-0°00'45
min. Earth dist.	-8863 Nov 15 j 19:46	22°♓36'12	4.30861 AU
asc. node	-8863 Nov 19 j 01:02	22°♓10'47	
direct	-8862 Jan 15 j 23:50	17°♓36'25	
	-8862 Apr 26 j 20:40	0°♈	
evening set	-8862 May 24 j 13:59	5°♈55'35	
conjunction	-8862 Jun 06 j 18:01	8°♈50'37	0°26'30
minimum elong	-8862 Jun 06 j 17:58	8°♈50'35	0°26'32
max. Earth dist.	-8862 Jun 05 j 17:04	8°♈36'45	6.33040 AU
morning rise	-8862 Jun 19 j 18:20	11°♈43'48	
retrograde	-8862 Oct 18 j 06:53	29°♈00'10	
opposition	-8862 Dec 17 j 09:07	24°♈07'38	1°13'14
min. Earth dist.	-8862 Dec 18 j 05:19	24°♈01'07	4.34287 AU
direct	-8861 Feb 17 j 17:44	19°♈05'30	
	-8861 May 22 j 12:42	0°♉	
evening set	-8861 Jun 25 j 14:41	7°♉13'31	
max. Earth dist.	-8861 Jul 06 j 23:55	9°♉45'25	6.34339 AU
conjunction	-8861 Jul 08 j 08:43	10°♉03'43	1°10'59
minimum elong	-8861 Jul 08 j 08:38	10°♉03'40	1°11'17
morning rise	-8861 Jul 20 j 23:51	12°♉52'30	
	-8861 Jul 30 j 15:35	15°♉	
	-8861 Nov 07 j 13:15	0°♊	
retrograde	-8861 Nov 19 j 04:35	0°♊12'46	
	-8861 Nov 30 j 19:18	30°℞♉	
opposition	-8860 Jan 18 j 21:12	25°♉21'14	2°05'41
min. Earth dist.	-8860 Jan 19 j 21:13	25°♉13'35	4.33488 AU
direct	-8860 Mar 21 j 09:14	20°♉21'49	
	-8860 Jun 16 j 01:45	0°♊	
evening set	-8860 Jul 25 j 22:10	8°♊26'21	
max. Earth dist.	-8860 Aug 06 j 02:24	10°♊57'12	6.31359 AU

conjunction	-8860 Aug 07 j 09:12	11°♊14'34	1°34'53
minimum elong	-8860 Aug 07 j 09:10	11°♊14'33	1°35'24
morning rise	-8860 Aug 19 j 18:38	14°♊02'04	
	-8860 Nov 16 j 13:08	0°♋	
retrograde	-8860 Dec 20 j 23:32	1°♋47'21	
	-8859 Jan 24 j 18:16	30°℞♊	
opposition	-8859 Feb 20 j 05:20	26°♊54'52	2°21'59
min. Earth dist.	-8859 Feb 21 j 00:09	26°♊48'54	4.28594 AU
direct	-8859 Apr 23 j 03:05	21°♊58'29	
	-8859 Jul 09 j 06:28	0°♋	
evening set	-8859 Aug 26 j 04:47	10°♋07'07	
conjunction	-8859 Sep 07 j 14:34	12°♋57'16	1°30'57
minimum elong	-8859 Sep 07 j 14:36	12°♋57'17	1°31'30
max. Earth dist.	-8859 Sep 06 j 18:59	12°♋46'03	6.24907 AU
morning rise	-8859 Sep 20 j 00:32	15°♋47'41	
	-8859 Nov 30 j 23:53	0°♌	
retrograde	-8858 Jan 24 j 04:28	4°♌13'01	
	-8858 Mar 21 j 02:17	30°℞♋	
opposition	-8858 Mar 26 j 14:43	29°♋17'54	1°55'07
min. Earth dist.	-8858 Mar 26 j 23:57	29°♋14'57	4.20971 AU
direct	-8858 May 26 j 12:08	24°♋23'59	
	-8858 Jul 27 j 14:36	0°♌	
evening set	-8858 Sep 27 j 04:53	12°♌43'21	
	-8858 Oct 07 j 00:31	15°♌	
conjunction	-8858 Oct 09 j 19:43	15°♌39'05	0°58'31
minimum elong	-8858 Oct 09 j 19:47	15°♌39'08	0°58'57
max. Earth dist.	-8858 Oct 09 j 16:09	15°♌37'01	6.16832 AU
morning rise	-8858 Oct 22 j 12:46	18°♌36'06	
	-8858 Dec 15 j 02:15	0°♍	
retrograde	-8857 Feb 28 j 14:19	7°♍46'26	
opposition	-8857 Apr 30 j 21:52	2°♍47'32	0°49'31
min. Earth dist.	-8857 Apr 30 j 16:19	2°♍49'20	4.12976 AU
	-8857 May 23 j 19:55	30°℞♌	
direct	-8857 Jun 29 j 12:16	27°♌54'38	
	-8857 Aug 04 j 17:40	0°♍	
evening set	-8857 Oct 30 j 15:27	16°♍30'10	
conjunction	-8857 Nov 12 j 15:12	19°♍32'55	0°05'49
minimum elong	-8857 Nov 12 j 15:13	19°♍32'56	0°06'00
behind sun begin	-8857 Nov 12 j 07:28	19°♍28'24	
behind sun end	-8857 Nov 12 j 22:58	19°♍37'28	
max. Earth dist.	-8857 Nov 13 j 07:51	19°♍42'42	6.09713 AU
morning rise	-8857 Nov 25 j 18:09	22°♍37'30	
desc. node	-8857 Dec 22 j 20:55	28°♍46'21	
	-8857 Dec 28 j 13:49	0°♎	
retrograde	-8856 Apr 04 j 23:29	12°♎24'12	
opposition	-8856 Jun 04 j 16:47	7°♎21'35	-0°35'28
min. Earth dist.	-8856 Jun 04 j 00:10	7°♎27'07	4.07341 AU
direct	-8856 Aug 02 j 07:25	2°♎27'49	
evening set	-8856 Dec 03 j 20:32	21°♎21'06	
conjunction	-8856 Dec 17 j 04:49	24°♎29'09	-0°50'02
minimum elong	-8856 Dec 17 j 04:44	24°♎29'07	0°50'12
max. Earth dist.	-8856 Dec 18 j 12:11	24°♎47'36	6.06049 AU
morning rise	-8856 Dec 30 j 16:36	27°♎39'02	
	-8855 Jan 09 j 20:07	0°♏	
	-8855 Mar 30 j 17:49	15°♏	
retrograde	-8855 May 11 j 06:46	17°♏38'51	
	-8855 Jun 21 j 13:50	15°℞♏	
min. Earth dist.	-8855 Jul 09 j 08:22	12°♏41'51	4.06145 AU
opposition	-8855 Jul 10 j 07:37	12°♏33'59	-1°48'47
direct	-8855 Sep 06 j 10:15	7°♏37'35	
	-8855 Nov 15 j 19:48	15°♏	
evening set	-8854 Jan 09 j 11:27	26°♏43'22	

Attention, astronomical year style is used: The year -8854 in astronomical counting style is the year 8855 BCE in historical counting style.

conjunction	-8854 Jan 23 j 01:42	29°♏53'15	-1°27'55	
minimum elong	-8854 Jan 23 j 01:38	29°♏53'13	1°28'22	
	-8854 Jan 23 j 13:16	0°♐		
max. Earth dist.	-8854 Jan 24 j 12:46	0°♐13'42	6.07290 AU	
morning rise	-8854 Feb 05 j 18:19	3°♐04'16		
retrograde	-8854 Jun 15 j 18:11	22°♐46'07		
min. Earth dist.	-8854 Aug 13 j 07:57	17°♐48'14	4.09802 AU	
opposition	-8854 Aug 14 j 03:54	17°♐41'24	-2°21'54	
direct	-8854 Oct 11 j 15:32	12°♐41'32		
	-8853 Feb 07 j 12:50	0°♑		
evening set	-8853 Feb 15 j 10:10	1°♑47'26		
conjunction	-8853 Mar 01 j 03:28	4°♑56'02	-1°33'37	
minimum elong	-8853 Mar 01 j 03:30	4°♑56'04	1°34'11	
max. Earth dist.	-8853 Mar 02 j 06:22	5°♑11'28	6.12972 AU	
morning rise	-8853 Mar 14 j 21:00	8°♑04'39		
retrograde	-8853 Jul 19 j 20:19	27°♑03'49		
opposition	-8853 Sep 16 j 22:20	22°♑01'40	-2°04'15	
min. Earth dist.	-8853 Sep 16 j 11:01	22°♑05'31	4.16939 AU	
direct	-8853 Nov 15 j 08:36	16°♑58'55		
	-8852 Feb 24 j 16:09	0°♒		
evening set	-8852 Mar 22 j 12:35	5°♒51'56		
conjunction	-8852 Apr 05 j 05:08	8°♒56'57	-1°06'46	
minimum elong	-8852 Apr 05 j 05:13	8°♒57'00	1°07'14	
max. Earth dist.	-8852 Apr 05 j 12:06	9°♒00'53	6.21015 AU	
morning rise	-8852 Apr 18 j 20:14	12°♒01'02		
	-8852 May 02 j 07:13	15°♒		
	-8852 Aug 10 j 02:38	0°♓		
retrograde	-8852 Aug 20 j 13:12	0°♓10'55		
	-8852 Aug 30 j 22:35	30°℞♒		
opposition	-8852 Oct 18 j 16:48	25°♒12'27	-1°06'12	
min. Earth dist.	-8852 Oct 18 j 18:27	25°♒11'54	4.25050 AU	
direct	-8852 Dec 18 j 09:54	20°♒08'15		
	-8851 Mar 15 j 16:40	0°♓		
evening set	-8851 Apr 26 j 03:09	8°♓42'17		
conjunction	-8851 May 09 j 14:47	11°♓42'13	-0°18'57	
minimum elong	-8851 May 09 j 14:49	11°♓42'14	0°19'12	
max. Earth dist.	-8851 May 09 j 03:28	11°♓35'55	6.28663 AU	
morning rise	-8851 May 22 j 23:06	14°♓40'27		
	-8851 Aug 14 j 19:07	0°♈		
retrograde	-8851 Sep 21 j 06:49	2°♈12'10		
asc. node	-8851 Sep 28 j 11:02	2°♈07'06		
	-8851 Oct 28 j 22:43	30°℞♓		
opposition	-8851 Nov 19 j 20:27	27°♓17'22	0°10'24	
min. Earth dist.	-8851 Nov 20 j 09:21	27°♓13'08	4.31568 AU	
direct	-8850 Jan 20 j 15:14	22°♓13'35		
	-8850 Apr 07 j 15:48	0°♈		
evening set	-8850 May 29 j 04:52	10°♈30'31		
max. Earth dist.	-8850 Jun 10 j 03:57	13°♈09'29	6.33550 AU	
conjunction	-8850 Jun 11 j 07:20	13°♈24'42	0°33'40	
minimum elong	-8850 Jun 11 j 07:17	13°♈24'40	0°33'44	
morning rise	-8850 Jun 24 j 06:26	16°♈17'08		
	-8850 Sep 04 j 06:42	0°♉		
retrograde	-8850 Oct 22 j 19:29	3°♉32'12		
	-8850 Dec 11 j 10:37	30°℞♈		
opposition	-8850 Dec 21 j 22:58	28°♈39'51	1°22'23	
min. Earth dist.	-8850 Dec 22 j 20:45	28°♈32'50	4.34554 AU	
direct	-8849 Feb 22 j 09:57	23°♈37'58		
	-8849 May 02 j 10:58	0°♉		
evening set	-8849 Jun 30 j 01:36	11°♉44'27		
max. Earth dist.	-8849 Jul 11 j 10:14	14°♉16'06	6.34301 AU	
conjunction	-8849 Jul 12 j 18:32	14°♉34'08	1°15'50	
minimum elong	-8849 Jul 12 j 18:27	14°♉34'06	1°16'11	
	-8849 Jul 14 j 16:51	15°♉		
morning rise	-8849 Jul 25 j 08:28	17°♉22'26		
	-8849 Sep 27 j 12:34	0°♊		
retrograde	-8849 Nov 23 j 16:59	4°♊44'34		
	-8848 Jan 22 j 14:33	30°℞♉		
opposition	-8848 Jan 23 j 12:44	29°♉52'57	2°10'24	
min. Earth dist.	-8848 Jan 24 j 11:36	29°♉45'40	4.33153 AU	
direct	-8848 Mar 25 j 22:46	24°♉53'57		
	-8848 May 25 j 18:51	0°♊		
evening set	-8848 Jul 30 j 07:42	12°♊58'11		
conjunction	-8848 Aug 11 j 18:03	15°♊46'21	1°36'07	
minimum elong	-8848 Aug 11 j 18:02	15°♊46'20	1°36'37	
max. Earth dist.	-8848 Aug 10 j 12:02	15°♊29'22	6.30730 AU	
morning rise	-8848 Aug 24 j 03:09	18°♊33'57		
	-8848 Oct 18 j 23:53	0°♋		
retrograde	-8848 Dec 25 j 17:54	6°♋23'49		
opposition	-8847 Feb 24 j 23:56	1°♋31'04	2°20'49	
min. Earth dist.	-8847 Feb 25 j 18:50	1°♋25'04	4.27694 AU	
	-8847 Mar 09 j 03:45	30°℞♊		
direct	-8847 Apr 27 j 19:55	26°♊35'03		
	-8847 Jun 15 j 05:36	0°♋		
evening set	-8847 Aug 30 j 15:26	14°♋44'44		
max. Earth dist.	-8847 Sep 11 j 07:06	17°♋24'53	6.23811 AU	
conjunction	-8847 Sep 12 j 01:35	17°♋35'29	1°28'00	
minimum elong	-8847 Sep 12 j 01:38	17°♋35'31	1°28'34	
morning rise	-8847 Sep 24 j 12:16	20°♋26'40		
	-8847 Nov 08 j 02:02	0°♌		
retrograde	-8846 Jan 29 j 01:12	8°♌58'20		
opposition	-8846 Mar 31 j 12:34	4°♌02'43	1°47'56	
min. Earth dist.	-8846 Mar 31 j 19:10	4°♌00'37	4.19750 AU	
	-8846 May 07 j 22:07	30°℞♋		
direct	-8846 May 31 j 04:51	29°♋09'03		
	-8846 Jun 23 j 10:22	0°♌		
	-8846 Sep 20 j 20:34	15°♌		
evening set	-8846 Oct 01 j 19:31	17°♌30'46		
conjunction	-8846 Oct 14 j 11:32	20°♌27'33	0°52'00	
minimum elong	-8846 Oct 14 j 11:36	20°♌27'36	0°52'24	
max. Earth dist.	-8846 Oct 14 j 11:08	20°♌27'19	6.15602 AU	
morning rise	-8846 Oct 27 j 05:48	23°♌25'41		
	-8846 Nov 25 j 13:27	0°♍		
retrograde	-8845 Mar 05 j 18:02	12°♍42'36		
opposition	-8845 May 05 j 22:49	7°♍43'10	0°38'03	
min. Earth dist.	-8845 May 05 j 16:27	7°♍45'14	4.11814 AU	
direct	-8845 Jul 04 j 10:12	2°♍50'16		
desc. node	-8845 Oct 31 j 15:34	20°♍34'54		
evening set	-8845 Nov 04 j 12:26	21°♍29'02		
conjunction	-8845 Nov 17 j 13:28	24°♍32'49	-0°02'29	
minimum elong	-8845 Nov 17 j 13:28	24°♍32'49	0°02'22	
behind sun begin	-8845 Nov 17 j 05:18	24°♍28'02		
behind sun end	-8845 Nov 17 j 21:38	24°♍37'35		
max. Earth dist.	-8845 Nov 18 j 08:02	24°♍43'43	6.08731 AU	
morning rise	-8845 Nov 30 j 17:57	27°♍38'29		
	-8845 Dec 10 j 22:20	0°♎		
retrograde	-8844 Apr 10 j 03:36	17°♎29'38		
opposition	-8844 Jun 09 j 18:44	12°♎26'39	-0°47'22	
min. Earth dist.	-8844 Jun 08 j 23:59	12°♎32'54	4.06660 AU	
direct	-8844 Aug 07 j 05:12	7°♎32'40		
evening set	-8844 Dec 09 j 00:12	26°♎29'11		
conjunction	-8844 Dec 22 j 09:32	29°♎37'51	-0°56'58	
minimum elong	-8844 Dec 22 j 09:27	29°♎37'48	0°57'11	
	-8844 Dec 23 j 23:12	0°♏		
max. Earth dist.	-8844 Dec 23 j 18:04	29°♎56'59	6.05722 AU	

Attention, astronomical year style is used: The year -8843 in astronomical counting style is the year 8844 BCE in historical counting style.

morning rise	-8843 Jan	04 j 22:15	2°♏48'14	
	-8843 Mar	02 j 18:24	15°♏	
retrograde	-8843 May	16 j 10:19	22°♏48'21	
min. Earth dist.	-8843 Jul	14 j 09:26	17°♏51'15	4.06235 AU
opposition	-8843 Jul	15 j 08:35	17°♏43'23	-1°56'28
	-8843 Aug	05 j 15:36	15℞♏	
direct	-8843 Sep	11 j 11:39	12°♏46'35	
	-8843 Oct	18 j 07:16	15°♏	
	-8842 Jan	06 j 12:48	0°♐	
evening set	-8842 Jan	14 j 18:35	1°♐53'50	
conjunction	-8842 Jan	28 j 09:34	5°♐03'47	-1°30'52
minimum elong	-8842 Jan	28 j 09:31	5°♐03'45	1°31'21
max. Earth dist.	-8842 Jan	29 j 22:04	5°♐25'01	6.07813 AU
morning rise	-8842 Feb	11 j 02:28	8°♐14'40	
retrograde	-8842 Jun	20 j 18:03	27°♐51'42	
min. Earth dist.	-8842 Aug	18 j 05:53	22°♐54'07	4.10755 AU
opposition	-8842 Aug	19 j 01:49	22°♐47'18	-2°22'24
direct	-8842 Oct	16 j 15:27	17°♐47'05	
	-8841 Jan	20 j 13:57	0°♑	
evening set	-8841 Feb	20 j 15:52	6°♑51'16	
conjunction	-8841 Mar	06 j 09:05	9°♑59'19	-1°31'35
minimum elong	-8841 Mar	06 j 09:08	9°♑59'20	1°32'10
max. Earth dist.	-8841 Mar	07 j 09:15	10°♑13'08	6.14282 AU
morning rise	-8841 Mar	20 j 02:35	13°♑07'17	
	-8841 Jun	19 j 10:13	0°♒	
retrograde	-8841 Jul	24 j 13:17	1°♒58'18	
	-8841 Aug	28 j 09:56	30℞♑	
opposition	-8841 Sep	21 j 15:40	26°♑56'35	-1°57'58
min. Earth dist.	-8841 Sep	21 j 05:44	26°♑59'58	4.18485 AU
direct	-8841 Nov	20 j 07:10	21°♑53'32	
	-8840 Feb	05 j 02:37	0°♒	
evening set	-8840 Mar	27 j 12:22	10°♒42'20	
conjunction	-8840 Apr	10 j 04:32	13°♒46'28	-1°00'55
minimum elong	-8840 Apr	10 j 04:37	13°♒46'31	1°01'22
max. Earth dist.	-8840 Apr	10 j 10:39	13°♒49'54	6.22703 AU
	-8840 Apr	15 j 15:16	15°♒	
morning rise	-8840 Apr	23 j 18:39	16°♒49'28	
	-8840 Jun	29 j 03:03	0°♓	
retrograde	-8840 Aug	25 j 00:39	4°♓50'57	
	-8840 Oct	22 j 08:45	30℞♒	
opposition	-8840 Oct	23 j 05:32	29°♒53'04	-0°56'00
min. Earth dist.	-8840 Oct	23 j 08:26	29°♒52'05	4.26715 AU
direct	-8840 Dec	23 j 02:43	24°♒48'50	
	-8839 Feb	21 j 23:52	0°♓	
evening set	-8839 Apr	30 j 19:38	13°♓17'58	
conjunction	-8839 May	14 j 05:57	16°♓16'46	-0°11'35
minimum elong	-8839 May	14 j 05:57	16°♓16'47	0°11'47
behind sun begin	-8839 May	14 j 00:16	16°♓13'38	
behind sun end	-8839 May	14 j 11:39	16°♓19'55	
max. Earth dist.	-8839 May	13 j 14:43	16°♓08'19	6.30163 AU
morning rise	-8839 May	27 j 13:08	19°♓13'53	
	-8839 Jul	19 j 11:07	0°♈	
asc. node	-8839 Aug	09 j 01:23	3°♈13'10	
retrograde	-8839 Sep	25 j 14:42	6°♈39'52	
opposition	-8839 Nov	24 j 06:20	1°♈45'28	0°21'03
min. Earth dist.	-8839 Nov	24 j 21:27	1°♈40'30	4.32790 AU
	-8839 Dec	07 j 23:28	30℞♓	
direct	-8838 Jan	25 j 05:09	26°♓41'47	
	-8838 Mar	14 j 11:50	0°♈	
evening set	-8838 Jun	02 j 14:39	14°♈54'56	
max. Earth dist.	-8838 Jun	14 j 11:47	17°♈32'37	6.34386 AU
conjunction	-8838 Jun	15 j 15:49	17°♈48'11	0°40'19
minimum elong	-8838 Jun	15 j 15:45	17°♈48'09	0°40'25
morning rise	-8838 Jun	28 j 13:20	20°♈39'39	
	-8838 Aug	12 j 17:30	0°♉	
retrograde	-8838 Oct	27 j 01:14	7°♉52'56	
opposition	-8838 Dec	26 j 07:58	3°♉00'48	1°30'38
min. Earth dist.	-8838 Dec	27 j 06:19	2°♉53'37	4.34958 AU
	-8837 Jan	20 j 13:10	30℞♈	
direct	-8837 Feb	26 j 19:27	27°♈59'15	
	-8837 Apr	05 j 04:33	0°♉	
	-8837 Jun	29 j 11:35	15°♉	
evening set	-8837 Jul	04 j 07:42	16°♉04'05	
conjunction	-8837 Jul	16 j 23:17	18°♉53'15	1°20'02
minimum elong	-8837 Jul	16 j 23:13	18°♉53'12	1°20'25
max. Earth dist.	-8837 Jul	15 j 12:30	18°♉33'49	6.34210 AU
morning rise	-8837 Jul	29 j 12:23	21°♉41'11	
	-8837 Sep	06 j 22:42	0°♊	
retrograde	-8837 Nov	28 j 03:19	9°♊05'41	
opposition	-8836 Jan	27 j 23:39	4°♊14'02	2°14'11
min. Earth dist.	-8836 Jan	29 j 00:01	4°♊06'17	4.32579 AU
	-8836 Mar	08 j 01:55	30℞♉	
direct	-8836 Mar	30 j 09:37	29°♉15'19	
	-8836 Apr	21 j 16:56	0°♊	
evening set	-8836 Aug	03 j 12:54	17°♊20'24	
conjunction	-8836 Aug	15 j 23:02	20°♊08'49	1°36'43
minimum elong	-8836 Aug	15 j 23:01	20°♊08'48	1°37'14
max. Earth dist.	-8836 Aug	14 j 17:32	19°♊52'06	6.29706 AU
morning rise	-8836 Aug	28 j 07:55	22°♊56'46	
	-8836 Sep	29 j 21:05	0°♋	
retrograde	-8836 Dec	30 j 07:09	10°♋52'42	
opposition	-8835 Mar	01 j 14:56	5°♋59'39	2°18'53
min. Earth dist.	-8835 Mar	02 j 08:24	5°♋54'07	4.26297 AU
direct	-8835 May	02 j 06:27	1°♋04'00	
evening set	-8835 Sep	03 j 23:35	19°♋16'41	
conjunction	-8835 Sep	16 j 10:14	22°♋08'21	1°24'35
minimum elong	-8835 Sep	16 j 10:18	22°♋08'23	1°25'08
max. Earth dist.	-8835 Sep	15 j 17:11	21°♋58'31	6.22161 AU
morning rise	-8835 Sep	28 j 21:46	25°♋00'35	
	-8835 Oct	21 j 04:29	0°♌	
retrograde	-8834 Feb	02 j 23:36	13°♌40'43	
opposition	-8834 Apr	05 j 09:01	8°♌44'38	1°40'10
min. Earth dist.	-8834 Apr	05 j 14:56	8°♌42'44	4.17946 AU
direct	-8834 Jun	04 j 21:37	3°♌51'07	
	-8834 Sep	03 j 18:24	15°♌	
evening set	-8834 Oct	06 j 09:56	22°♌17'23	
conjunction	-8834 Oct	19 j 03:16	25°♌15'30	0°45'09
minimum elong	-8834 Oct	19 j 03:19	25°♌15'32	0°45'32
max. Earth dist.	-8834 Oct	19 j 05:28	25°♌16'47	6.13832 AU
morning rise	-8834 Oct	31 j 23:05	28°♌15'04	
	-8834 Nov	08 j 12:51	0°♍	
retrograde	-8833 Mar	10 j 20:42	17°♍40'11	
opposition	-8833 May	10 j 23:39	12°♍40'13	0°26'17
min. Earth dist.	-8833 May	10 j 14:30	12°♍43'13	4.10242 AU
direct	-8833 Jul	09 j 05:14	7°♍47'18	
desc. node	-8833 Sep	09 j 15:24	13°♍40'18	
evening set	-8833 Nov	09 j 11:04	26°♍30'54	
conjunction	-8833 Nov	22 j 13:28	29°♍35'50	-0°10'42
minimum elong	-8833 Nov	22 j 13:27	29°♍35'49	0°10'38
behind sun begin	-8833 Nov	22 j 07:07	29°♍32'06	
behind sun end	-8833 Nov	22 j 19:47	29°♍39'32	
max. Earth dist.	-8833 Nov	23 j 10:49	29°♍48'24	6.07500 AU
	-8833 Nov	24 j 06:29	0°♎	
morning rise	-8833 Dec	05 j 19:24	2°♎42'40	

Attention, astronomical year style is used: The year -8832 in astronomical counting style is the year 8833 BCE in historical counting style.

retrograde	-8832 Apr 15 j 09:17	22°♎38'44	
opposition	-8832 Jun 14 j 21:46	17°♎35'14	-0°59'01
min. Earth dist.	-8832 Jun 14 j 01:37	17°♎42'00	4.05891 AU
direct	-8832 Aug 12 j 06:13	12°♎40'54	
	-8832 Dec 07 j 00:27	0°♏	
evening set	-8832 Dec 14 j 05:34	1°♏40'41	
conjunction	-8832 Dec 27 j 16:03	4°♏49'54	-1°03'31
minimum elong	-8832 Dec 27 j 15:57	4°♏49'50	1°03'46
max. Earth dist.	-8832 Dec 29 j 03:57	5°♏11'00	6.05472 AU
morning rise	-8831 Jan 10 j 05:36	8°♏00'43	
	-8831 Feb 10 j 04:47	15°♏	
retrograde	-8831 May 21 j 14:41	27°♏59'52	
min. Earth dist.	-8831 Jul 19 j 10:26	23°♏02'50	4.06539 AU
opposition	-8831 Jul 20 j 10:13	22°♏54'44	-2°03'15
direct	-8831 Sep 16 j 13:17	17°♏57'27	
	-8831 Dec 19 j 10:41	0°♐	
evening set	-8830 Jan 20 j 02:37	7°♐04'57	
conjunction	-8830 Feb 02 j 17:56	10°♐14'42	-1°33'07
minimum elong	-8830 Feb 02 j 17:54	10°♐14'41	1°33'36
max. Earth dist.	-8830 Feb 04 j 04:47	10°♐34'56	6.08576 AU
morning rise	-8830 Feb 16 j 11:15	13°♐25'19	
	-8830 May 13 j 05:48	0°♑	
retrograde	-8830 Jun 25 j 15:46	2°♑56'09	
	-8830 Aug 07 j 20:28	30°℞♐	
opposition	-8830 Aug 23 j 23:10	27°♐51'55	-2°21'49
min. Earth dist.	-8830 Aug 23 j 03:54	27°♐58'31	4.11865 AU
direct	-8830 Oct 21 j 16:19	22°♐51'09	
	-8830 Dec 31 j 00:24	0°♑	
evening set	-8829 Feb 25 j 21:01	11°♑52'59	
conjunction	-8829 Mar 11 j 14:26	15°♑00'30	-1°28'54
minimum elong	-8829 Mar 11 j 14:30	15°♑00'32	1°29'27
max. Earth dist.	-8829 Mar 12 j 13:28	15°♑13'38	6.15632 AU
morning rise	-8829 Mar 25 j 07:30	18°♑07'43	
	-8829 May 21 j 11:57	0°♒	
retrograde	-8829 Jul 29 j 06:53	6°♒50'34	
opposition	-8829 Sep 26 j 08:36	1°♒49'23	-1°50'55
min. Earth dist.	-8829 Sep 26 j 00:38	1°♒52'05	4.19904 AU
	-8829 Oct 10 j 02:46	30°℞♑	
direct	-8829 Nov 25 j 04:18	26°♑46'04	
	-8828 Jan 10 j 13:47	0°♒	
	-8828 Mar 30 j 03:33	15°♒	
evening set	-8828 Apr 01 j 11:48	15°♒31'17	
conjunction	-8828 Apr 15 j 03:19	18°♒34'38	-0°54'40
minimum elong	-8828 Apr 15 j 03:24	18°♒34'41	0°55'05
max. Earth dist.	-8828 Apr 15 j 05:21	18°♒35'46	6.24069 AU
morning rise	-8828 Apr 28 j 16:46	21°♒36'46	
	-8828 Jun 07 j 05:47	0°♓	
retrograde	-8828 Aug 29 j 12:20	9°♓31'32	
opposition	-8828 Oct 27 j 19:12	4°♓34'09	-0°45'25
min. Earth dist.	-8828 Oct 27 j 23:55	4°♓32'34	4.27908 AU
	-8828 Dec 10 j 00:48	30°℞♒	
direct	-8828 Dec 27 j 20:27	29°♒29'52	
	-8827 Jan 14 j 21:06	0°♓	
evening set	-8827 May 05 j 13:05	17°♓55'58	
conjunction	-8827 May 18 j 22:18	20°♓53'55	-0°04'03
minimum elong	-8827 May 18 j 22:19	20°♓53'56	0°04'11
behind sun begin	-8827 May 18 j 14:16	20°♓49'29	
behind sun end	-8827 May 19 j 06:22	20°♓58'23	
max. Earth dist.	-8827 May 18 j 05:20	20°♓44'30	6.31108 AU
morning rise	-8827 Jun 01 j 04:07	23°♓50'08	
asc. node	-8827 Jun 17 j 21:57	27°♓28'36	
	-8827 Jun 29 j 23:45	0°♈	

retrograde	-8827 Sep 30 j 01:16	11°♈12'36	
opposition	-8827 Nov 28 j 18:48	6°♈18'40	0°31'50
min. Earth dist.	-8827 Nov 29 j 11:25	6°♈13'15	4.33421 AU
direct	-8826 Jan 29 j 20:07	1°♈15'17	
evening set	-8826 Jun 07 j 03:42	19°♈26'42	
max. Earth dist.	-8826 Jun 18 j 20:14	22°♈01'57	6.34638 AU
conjunction	-8826 Jun 20 j 03:21	22°♈19'14	0°46'58
minimum elong	-8826 Jun 20 j 03:17	22°♈19'11	0°47'07
morning rise	-8826 Jul 02 j 23:41	25°♈10'05	
	-8826 Jul 25 j 08:55	0°♉	
retrograde	-8826 Oct 31 j 13:37	12°♉23'41	
opposition	-8826 Dec 30 j 21:44	7°♉31'45	1°38'44
min. Earth dist.	-8826 Dec 31 j 21:17	7°♉24'12	4.34843 AU
direct	-8825 Mar 03 j 10:12	2°♉30'34	
	-8825 Jun 12 j 20:10	15°♉	
evening set	-8825 Jul 08 j 18:07	20°♉35'18	
max. Earth dist.	-8825 Jul 19 j 23:11	23°♉05'24	6.33727 AU
conjunction	-8825 Jul 21 j 08:48	23°♉24'13	1°23'59
minimum elong	-8825 Jul 21 j 08:44	23°♉24'10	1°24'24
morning rise	-8825 Aug 02 j 20:50	26°♉11'56	
	-8825 Aug 20 j 05:14	0°♊	
retrograde	-8825 Dec 02 j 17:43	13°♊40'14	
opposition	-8824 Feb 01 j 16:36	8°♊48'34	2°17'26
min. Earth dist.	-8824 Feb 02 j 16:08	8°♊41'06	4.31780 AU
direct	-8824 Apr 04 j 00:13	3°♊50'24	
evening set	-8824 Aug 07 j 23:36	21°♊56'42	
max. Earth dist.	-8824 Aug 19 j 04:06	24°♊28'47	6.28649 AU
conjunction	-8824 Aug 20 j 09:16	24°♊45'21	1°36'47
minimum elong	-8824 Aug 20 j 09:16	24°♊45'21	1°37'20
morning rise	-8824 Sep 01 j 18:15	27°♊33'45	
	-8824 Sep 12 j 15:30	0°♋	
retrograde	-8823 Jan 04 j 04:29	15°♋35'59	
opposition	-8823 Mar 06 j 12:12	10°♋42'39	2°15'59
min. Earth dist.	-8823 Mar 07 j 04:44	10°♋37'24	4.25060 AU
direct	-8823 May 07 j 01:01	5°♋47'24	
evening set	-8823 Sep 08 j 12:55	24°♋02'14	
max. Earth dist.	-8823 Sep 20 j 10:43	26°♋46'52	6.20887 AU
conjunction	-8823 Sep 21 j 00:22	26°♋54'44	1°20'28
minimum elong	-8823 Sep 21 j 00:26	26°♋54'47	1°20'59
morning rise	-8823 Oct 03 j 12:43	29°♋47'55	
	-8823 Oct 04 j 09:47	0°♌	
	-8823 Dec 20 j 10:02	15°♌	
retrograde	-8822 Feb 08 j 00:39	18°♌34'55	
	-8822 Mar 30 j 16:33	15°℞♌	
opposition	-8822 Apr 10 j 10:01	13°♌38'23	1°31'22
min. Earth dist.	-8822 Apr 10 j 13:09	13°♌37'23	4.16753 AU
direct	-8822 Jun 09 j 17:29	8°♌45'09	
	-8822 Aug 14 j 02:52	15°♌	
evening set	-8822 Oct 11 j 04:11	27°♌13'39	
conjunction	-8822 Oct 23 j 22:37	0°♍12'44	0°37'49
minimum elong	-8822 Oct 23 j 22:41	0°♍12'46	0°38'10
	-8822 Oct 23 j 00:53	0°♍	
max. Earth dist.	-8822 Oct 24 j 03:36	0°♍15'39	6.12844 AU
morning rise	-8822 Nov 05 j 19:53	3°♍13'23	
retrograde	-8821 Mar 16 j 01:23	22°♍43'41	
opposition	-8821 May 16 j 02:33	17°♍43'08	0°14'08
min. Earth dist.	-8821 May 15 j 15:19	17°♍46'49	4.09544 AU
direct	-8821 Jul 14 j 04:47	12°♍50'08	
desc. node	-8821 Jul 19 j 23:52	12°♍53'32	
	-8821 Nov 07 j 14:56	0°♎	
evening set	-8821 Nov 14 j 10:39	1°♎35'24	

Attention, astronomical year style is used: The year -8821 in astronomical counting style is the year 8822 BCE in historical counting style.

conjunction	-8821 Nov 27 j 14:22	4°♎41'01	-0°18'51
minimum elong	-8821 Nov 27 j 14:20	4°♎41'00	0°18'50
max. Earth dist.	-8821 Nov 28 j 15:44	4°♎55'57	6.07163 AU
morning rise	-8821 Dec 10 j 21:27	7°♎48'30	
retrograde	-8820 Apr 20 j 13:07	27°♎45'44	
opposition	-8820 Jun 19 j 23:24	22°♎41'53	-1°10'03
min. Earth dist.	-8820 Jun 19 j 02:15	22°♎48'58	4.05973 AU
direct	-8820 Aug 17 j 06:07	17°♎47'14	
	-8820 Nov 19 j 09:11	0°♏	
evening set	-8820 Dec 19 j 09:19	6°♏47'29	
conjunction	-8819 Jan 01 j 20:25	9°♏56'45	-1°09'26
minimum elong	-8819 Jan 01 j 20:19	9°♏56'42	1°09'45
max. Earth dist.	-8819 Jan 03 j 07:44	10°♏17'29	6.05919 AU
morning rise	-8819 Jan 15 j 10:46	13°♏07'38	
	-8819 Jan 23 j 13:04	15°♏	
	-8819 Apr 11 j 22:44	0°♐	
retrograde	-8819 May 26 j 13:20	3°♐03'17	
	-8819 Jul 09 j 23:47	30°℞♏	
min. Earth dist.	-8819 Jul 24 j 07:57	28°♏06'15	4.07318 AU
opposition	-8819 Jul 25 j 07:54	27°♏58'05	-2°08'51
direct	-8819 Sep 21 j 12:26	23°♏00'14	
	-8819 Nov 29 j 02:49	0°♐	
evening set	-8818 Jan 25 j 06:26	12°♐06'41	
conjunction	-8818 Feb 07 j 22:19	15°♐16'09	-1°34'35
minimum elong	-8818 Feb 07 j 22:17	15°♐16'08	1°35'06
max. Earth dist.	-8818 Feb 09 j 08:47	15°♐36'07	6.09604 AU
morning rise	-8818 Feb 21 j 15:35	18°♐26'16	
	-8818 Apr 17 j 01:14	0°♑	
retrograde	-8818 Jun 30 j 11:02	7°♑50'28	
opposition	-8818 Aug 28 j 16:28	2°♑46'34	-2°20'15
min. Earth dist.	-8818 Aug 27 j 23:22	2°♑52'25	4.13026 AU
	-8818 Sep 19 j 06:25	30°℞♐	
direct	-8818 Oct 26 j 13:10	27°♐45'21	
	-8818 Dec 03 j 03:35	0°♑	
evening set	-8817 Mar 02 j 21:38	16°♑44'52	
conjunction	-8817 Mar 16 j 14:56	19°♑51'51	-1°25'41
minimum elong	-8817 Mar 16 j 15:01	19°♑51'53	1°26'13
max. Earth dist.	-8817 Mar 17 j 10:18	20°♑02'52	6.16818 AU
morning rise	-8817 Mar 30 j 07:49	22°♑58'27	
	-8817 May 01 j 13:06	0°♒	
retrograde	-8817 Aug 02 j 18:55	11°♒34'17	
opposition	-8817 Sep 30 j 21:57	6°♒33'34	-1°43'23
min. Earth dist.	-8817 Sep 30 j 15:26	6°♒35'47	4.21004 AU
direct	-8817 Nov 29 j 21:03	1°♒29'59	
	-8816 Mar 13 j 08:12	15°♒	
evening set	-8816 Apr 06 j 07:47	20°♒12'56	
conjunction	-8816 Apr 19 j 22:43	23°♒15'40	-0°48'14
minimum elong	-8816 Apr 19 j 22:48	23°♒15'42	0°48'38
max. Earth dist.	-8816 Apr 19 j 21:30	23°♒14'59	6.25020 AU
morning rise	-8816 May 03 j 11:19	26°♒17'05	
	-8816 May 20 j 10:04	0°♓	
retrograde	-8816 Sep 02 j 23:44	14°♓06'53	
opposition	-8816 Nov 01 j 06:48	9°♓10'04	-0°34'50
min. Earth dist.	-8816 Nov 01 j 14:07	9°♓07'37	4.28622 AU
direct	-8815 Jan 01 j 12:12	4°♓05'49	
asc. node	-8815 Apr 27 j 08:52	19°♓42'38	
evening set	-8815 May 10 j 04:41	22°♓30'26	
conjunction	-8815 May 23 j 12:48	25°♓27'46	0°03'32
minimum elong	-8815 May 23 j 12:47	25°♓27'45	0°03'25
behind sun begin	-8815 May 23 j 04:41	25°♓23'17	
behind sun end	-8815 May 23 j 20:54	25°♓32'14	
max. Earth dist.	-8815 May 22 j 16:49	25°♓16'41	6.31531 AU
morning rise	-8815 Jun 05 j 17:27	28°♓23'19	
	-8815 Jun 13 j 01:34	0°♈	
retrograde	-8815 Oct 04 j 11:20	15°♈44'12	
opposition	-8815 Dec 03 j 07:02	10°♈50'36	0°42'18
min. Earth dist.	-8815 Dec 04 j 00:37	10°♈44'52	4.33553 AU
direct	-8814 Feb 03 j 10:06	5°♈47'25	
evening set	-8814 Jun 11 j 16:14	23°♈58'33	
max. Earth dist.	-8814 Jun 23 j 07:34	26°♈33'19	6.34472 AU
conjunction	-8814 Jun 24 j 14:36	26°♈50'35	0°53'18
minimum elong	-8814 Jun 24 j 14:32	26°♈50'32	0°53'30
morning rise	-8814 Jul 07 j 09:35	29°♈40'57	
	-8814 Jul 08 j 20:07	0°♉	
	-8814 Sep 30 j 14:17	15°♉	
retrograde	-8814 Nov 05 j 02:19	16°♉56'14	
	-8814 Dec 10 j 22:13	15°℞♉	
opposition	-8813 Jan 04 j 12:34	12°♉04'29	1°46'15
min. Earth dist.	-8813 Jan 05 j 12:28	11°♉56'50	4.34413 AU
direct	-8813 Mar 08 j 01:24	7°♉03'44	
	-8813 May 25 j 00:02	15°♉	
evening set	-8813 Jul 13 j 05:29	25°♉08'59	
max. Earth dist.	-8813 Jul 24 j 08:52	27°♉38'31	6.33050 AU
conjunction	-8813 Jul 25 j 19:03	27°♉57'41	1°27'26
minimum elong	-8813 Jul 25 j 19:00	27°♉57'39	1°27'51
	-8813 Aug 03 j 21:14	0°♊	
morning rise	-8813 Aug 07 j 06:28	0°♊45'22	
retrograde	-8813 Dec 07 j 10:45	18°♊17'54	
opposition	-8812 Feb 06 j 11:05	13°♊26'04	2°19'49
min. Earth dist.	-8812 Feb 07 j 09:41	13°♊18'53	4.30923 AU
direct	-8812 Apr 08 j 16:53	8°♊28'18	
evening set	-8812 Aug 12 j 11:15	26°♊35'34	
conjunction	-8812 Aug 24 j 20:55	29°♊24'33	1°36'13
minimum elong	-8812 Aug 24 j 20:55	29°♊24'34	1°36'47
max. Earth dist.	-8812 Aug 23 j 19:15	29°♊09'57	6.27688 AU
	-8812 Aug 27 j 11:08	0°♋	
morning rise	-8812 Sep 06 j 05:49	2°♋13'21	
retrograde	-8811 Jan 09 j 01:27	20°♋21'09	
opposition	-8811 Mar 11 j 10:28	15°♋27'27	2°12'07
min. Earth dist.	-8811 Mar 12 j 01:02	15°♋22'50	4.24055 AU
direct	-8811 May 11 j 19:37	10°♋32'35	
evening set	-8811 Sep 13 j 02:50	28°♋48'24	
	-8811 Sep 18 j 07:09	0°♌	
conjunction	-8811 Sep 25 j 14:48	1°♌41'35	1°15'48
minimum elong	-8811 Sep 25 j 14:52	1°♌41'38	1°16'18
max. Earth dist.	-8811 Sep 25 j 02:54	1°♌34'42	6.19913 AU
morning rise	-8811 Oct 08 j 04:15	4°♌35'39	
	-8811 Nov 25 j 18:21	15°♌	
retrograde	-8810 Feb 13 j 01:47	23°♌28'18	
opposition	-8810 Apr 15 j 10:53	18°♌31'09	1°21'54
min. Earth dist.	-8810 Apr 15 j 11:42	18°♌30'53	4.15852 AU
	-8810 May 16 j 01:01	15°℞♌	
direct	-8810 Jun 14 j 14:13	13°♌38'02	
	-8810 Jul 13 j 21:53	15°♌	
	-8810 Oct 06 j 16:55	0°♍	
evening set	-8810 Oct 15 j 22:06	2°♍07'49	
conjunction	-8810 Oct 28 j 17:53	5°♍07'46	0°30'14
minimum elong	-8810 Oct 28 j 17:56	5°♍07'48	0°30'32
max. Earth dist.	-8810 Oct 29 j 02:58	5°♍13'06	6.12109 AU
morning rise	-8810 Nov 10 j 16:24	8°♍09'20	
retrograde	-8809 Mar 21 j 04:34	27°♍43'39	
opposition	-8809 May 21 j 03:58	22°♍42'36	0°01'57
min. Earth dist.	-8809 May 20 j 15:29	22°♍46'43	4.09037 AU
desc. node	-8809 May 30 j 01:10	21°♍33'08	

Attention, astronomical year style is used: The year -8809 in astronomical counting style is the year 8810 BCE in historical counting style.

direct	-8809 Jul 19 j 03:06	17°♍49'32		
	-8809 Oct 21 j 07:36	0°♎		
evening set	-8809 Nov 19 j 09:47	6°♎36'16		
conjunction	-8809 Dec 02 j 14:28	9°♎42'27	-0°26'50	
minimum elong	-8809 Dec 02 j 14:26	9°♎42'26	0°26'51	
max. Earth dist.	-8809 Dec 03 j 16:21	9°♎57'42	6.06914 AU	
morning rise	-8809 Dec 15 j 22:53	12°♎50'34		
	-8808 Mar 13 j 13:20	0°♏		
retrograde	-8808 Apr 25 j 14:06	2°♏48'42		
	-8808 Jun 07 j 13:22	30°℞♎		
opposition	-8808 Jun 24 j 23:14	27°♎44'33	-1°20'29	
min. Earth dist.	-8808 Jun 24 j 00:49	27°♎52'05	4.06023 AU	
direct	-8808 Aug 22 j 04:35	22°♎49'31		
	-8808 Oct 30 j 08:57	0°♏		
evening set	-8808 Dec 24 j 12:06	11°♏50'50		
	-8807 Jan 06 j 23:39	15°♏		
conjunction	-8807 Jan 07 j 00:09	15°♏00'18	-1°14'49	
minimum elong	-8807 Jan 07 j 00:04	15°♏00'15	1°15'10	
max. Earth dist.	-8807 Jan 08 j 13:01	15°♏21'53	6.06258 AU	
morning rise	-8807 Jan 20 j 14:58	18°♏11'12		
	-8807 Mar 16 j 15:14	0°♐		
retrograde	-8807 May 31 j 13:32	8°♐03'58		
min. Earth dist.	-8807 Jul 29 j 06:22	3°♐06'30	4.07921 AU	
opposition	-8807 Jul 30 j 04:49	2°♐58'50	-2°13'32	
	-8807 Aug 22 j 17:04	30°℞♏		
direct	-8807 Sep 26 j 11:10	28°♏00'33		
	-8807 Oct 31 j 07:57	0°♐		
evening set	-8806 Jan 30 j 10:07	17°♐06'48		
conjunction	-8806 Feb 13 j 02:18	20°♐16'04	-1°35'23	
minimum elong	-8806 Feb 13 j 02:18	20°♐16'03	1°35'55	
max. Earth dist.	-8806 Feb 14 j 10:35	20°♐34'43	6.10402 AU	
morning rise	-8806 Feb 26 j 19:51	23°♐25'53		
	-8806 Mar 28 j 08:51	0°♑		
retrograde	-8806 Jul 05 j 04:05	12°♑44'17		
opposition	-8806 Sep 02 j 09:26	7°♑40'45	-2°17'44	
min. Earth dist.	-8806 Sep 01 j 17:01	7°♑46'22	4.13949 AU	
direct	-8806 Oct 31 j 08:03	2°♑39'09		
evening set	-8805 Mar 07 j 22:45	21°♑37'23		
conjunction	-8805 Mar 21 j 16:01	24°♑43'58	-1°21'52	
minimum elong	-8805 Mar 21 j 16:06	24°♑44'00	1°22'24	
max. Earth dist.	-8805 Mar 22 j 08:00	24°♑53'02	6.17804 AU	
morning rise	-8805 Apr 04 j 08:35	27°♑50'01		
	-8805 Apr 14 j 01:02	0°♒		
	-8805 Jul 09 j 18:46	15°♒		
retrograde	-8805 Aug 07 j 10:11	16°♒19'40		
	-8805 Sep 04 j 19:42	15°℞♒		
opposition	-8805 Oct 05 j 12:15	11°♒19'31	-1°35'09	
min. Earth dist.	-8805 Oct 05 j 08:35	11°♒20'45	4.21935 AU	
direct	-8805 Dec 04 j 16:15	6°♒15'45		
	-8804 Feb 23 j 11:21	15°♒		
evening set	-8804 Apr 11 j 04:25	24°♒56'55		
conjunction	-8804 Apr 24 j 18:50	27°♒59'05	-0°41'25	
minimum elong	-8804 Apr 24 j 18:54	27°♒59'08	0°41'45	
max. Earth dist.	-8804 Apr 24 j 15:10	27°♒57'02	6.25837 AU	
	-8804 May 03 j 19:05	0°♓		
morning rise	-8804 May 08 j 06:33	0°♓59'51		
retrograde	-8804 Sep 07 j 10:33	18°♓45'19		
opposition	-8804 Nov 05 j 19:47	13°♓49'01	-0°23'54	
min. Earth dist.	-8804 Nov 06 j 03:57	13°♓46'18	4.29264 AU	
direct	-8803 Jan 06 j 03:42	8°♓44'51		
asc. node	-8803 Mar 06 j 07:07	13°♓36'57		
evening set	-8803 May 14 j 21:14	27°♓08'09		
max. Earth dist.	-8803 May 27 j 05:55	29°♓52'30	6.31965 AU	
	-8803 May 27 j 19:24	0°♈		
conjunction	-8803 May 28 j 04:03	0°♈04'47	0°11'04	
minimum elong	-8803 May 28 j 04:02	0°♈04'47	0°10'59	
behind sun begin	-8803 May 27 j 21:56	0°♈01'24		
behind sun end	-8803 May 28 j 10:07	0°♈08'09		
morning rise	-8803 Jun 10 j 07:28	2°♈59'40		
retrograde	-8803 Oct 09 j 00:03	20°♈19'04		
opposition	-8803 Dec 07 j 20:45	15°♈25'53	0°52'40	
min. Earth dist.	-8803 Dec 08 j 16:02	15°♈19'38	4.33764 AU	
direct	-8802 Feb 08 j 02:52	10°♈23'02		
evening set	-8802 Jun 16 j 05:32	28°♈33'24		
	-8802 Jun 22 j 17:56	0°♉		
max. Earth dist.	-8802 Jun 27 j 18:48	1°♉07'11	6.34440 AU	
conjunction	-8802 Jun 29 j 02:35	1°♉24'52	0°59'23	
minimum elong	-8802 Jun 29 j 02:31	1°♉24'50	0°59'38	
morning rise	-8802 Jul 11 j 20:20	4°♉14'44		
	-8802 Sep 02 j 18:50	15°♉		
retrograde	-8802 Nov 09 j 15:19	21°♉31'20		
opposition	-8801 Jan 09 j 04:18	16°♉39'39	1°53'12	
min. Earth dist.	-8801 Jan 10 j 03:29	16°♉32'14	4.34184 AU	
	-8801 Jan 22 j 10:24	15°℞♉		
direct	-8801 Mar 12 j 16:25	11°♉39'18		
	-8801 Apr 30 j 09:00	15°♉		
evening set	-8801 Jul 17 j 16:45	29°♉44'12		
	-8801 Jul 18 j 21:06	0°♊		
max. Earth dist.	-8801 Jul 28 j 21:27	2°♊14'40	6.32640 AU	
conjunction	-8801 Jul 30 j 05:26	2°♊32'39	1°30'21	
minimum elong	-8801 Jul 30 j 05:23	2°♊32'38	1°30'49	
morning rise	-8801 Aug 11 j 16:00	5°♊20'09		
retrograde	-8801 Dec 12 j 03:47	22°♊56'06		
opposition	-8800 Feb 11 j 05:45	18°♊04'07	2°21'18	
min. Earth dist.	-8800 Feb 12 j 03:41	17°♊57'10	4.30361 AU	
direct	-8800 Apr 13 j 10:07	13°♊06'48		
	-8800 Aug 11 j 11:02	0°♋		
evening set	-8800 Aug 16 j 22:10	1°♋13'51		
max. Earth dist.	-8800 Aug 28 j 06:40	3°♋48'49	6.27006 AU	
conjunction	-8800 Aug 29 j 07:35	4°♋03'02	1°35'04	
minimum elong	-8800 Aug 29 j 07:37	4°♋03'03	1°35'37	
morning rise	-8800 Sep 10 j 16:50	6°♋52'13		
retrograde	-8799 Jan 13 j 21:27	25°♋04'43		
opposition	-8799 Mar 16 j 07:37	20°♋10'32	2°07'23	
min. Earth dist.	-8799 Mar 16 j 19:54	20°♋06'37	4.23288 AU	
direct	-8799 May 16 j 12:54	15°♋15'55		
	-8799 Sep 02 j 01:24	0°♌		
evening set	-8799 Sep 17 j 15:26	3°♌32'02		
conjunction	-8799 Sep 30 j 04:18	6°♌25'54	1°10'40	
minimum elong	-8799 Sep 30 j 04:23	6°♌25'56	1°11'10	
max. Earth dist.	-8799 Sep 29 j 20:16	6°♌21'15	6.19141 AU	
morning rise	-8799 Oct 12 j 18:35	9°♌20'42		
	-8799 Nov 06 j 23:51	15°♌		
retrograde	-8798 Feb 18 j 01:35	28°♌18'09		
opposition	-8798 Apr 20 j 09:44	23°♌20'28	1°11'59	
min. Earth dist.	-8798 Apr 20 j 09:23	23°♌20'35	4.15111 AU	
direct	-8798 Jun 19 j 09:50	18°♌27'27		
	-8798 Sep 19 j 14:29	0°♍		
evening set	-8798 Oct 20 j 14:38	6°♍58'13		
conjunction	-8798 Nov 02 j 11:27	9°♍58'57	0°22'34	
minimum elong	-8798 Nov 02 j 11:29	9°♍58'58	0°22'49	
max. Earth dist.	-8798 Nov 02 j 21:22	10°♍04'46	6.11461 AU	
morning rise	-8798 Nov 15 j 11:29	13°♍01'26		

Attention, astronomical year style is used: The year -8797 in astronomical counting style is the year 8798 BCE in historical counting style.

	-8797 Feb 12 j 01:24	0°♎		
retrograde	-8797 Mar 26 j 03:58	2°♎39'26		
desc. node	-8797 Apr 09 j 21:30	2°♎18'52		
	-8797 May 07 j 09:44	30°℞♍		
opposition	-8797 May 26 j 03:05	27°♍37'49	-0°10'05	
min. Earth dist.	-8797 May 25 j 12:32	27°♍42'38	4.08533 AU	
direct	-8797 Jul 23 j 22:48	22°♍44'31		
	-8797 Oct 01 j 19:14	0°♎		
evening set	-8797 Nov 24 j 07:15	11°♎33'01		
conjunction	-8797 Dec 07 j 13:13	14°♎39'50	-0°34'29	
minimum elong	-8797 Dec 07 j 13:10	14°♎39'48	0°34'33	
max. Earth dist.	-8797 Dec 08 j 17:44	14°♎56'37	6.06599 AU	
morning rise	-8797 Dec 20 j 22:33	17°♎48'31		
	-8796 Feb 15 j 17:52	0°♏		
retrograde	-8796 Apr 30 j 15:58	7°♏47'46		
opposition	-8796 Jun 29 j 21:16	2°♏43'20	-1°30'10	
min. Earth dist.	-8796 Jun 28 j 23:35	2°♏50'39	4.05940 AU	
	-8796 Jul 21 j 07:53	30°℞♎		
direct	-8796 Aug 27 j 02:28	27°♎47'53		
	-8796 Oct 02 j 16:12	0°♏		
	-8796 Dec 21 j 14:20	15°♏		
evening set	-8796 Dec 29 j 14:06	16°♏50'57		
conjunction	-8795 Jan 12 j 02:50	20°♏00'39	-1°19'34	
minimum elong	-8795 Jan 12 j 02:45	20°♏00'36	1°19'57	
max. Earth dist.	-8795 Jan 13 j 14:50	20°♏21'42	6.06396 AU	
morning rise	-8795 Jan 25 j 18:23	23°♏11'43		
	-8795 Feb 25 j 00:28	0°♐		
retrograde	-8795 Jun 05 j 10:14	13°♐02'05		
min. Earth dist.	-8795 Aug 03 j 01:42	8°♐04'46	4.08299 AU	
opposition	-8795 Aug 04 j 00:16	7°♐57'03	-2°17'10	
direct	-8795 Oct 01 j 06:38	2°♐58'16		
evening set	-8794 Feb 04 j 13:24	22°♐05'17		
conjunction	-8794 Feb 18 j 06:00	25°♐14'28	-1°35'27	
minimum elong	-8794 Feb 18 j 06:00	25°♐14'29	1°36'00	
max. Earth dist.	-8794 Feb 19 j 12:03	25°♐31'49	6.10987 AU	
morning rise	-8794 Mar 03 j 23:41	28°♐24'04		
	-8794 Mar 11 j 00:17	0°♑		
retrograde	-8794 Jul 09 j 23:04	17°♑37'27		
opposition	-8794 Sep 07 j 02:30	12°♑34'18	-2°14'15	
min. Earth dist.	-8794 Sep 06 j 12:27	12°♑39'06	4.14676 AU	
direct	-8794 Nov 05 j 05:24	7°♑32'18		
evening set	-8793 Mar 12 j 23:45	26°♑29'41		
conjunction	-8793 Mar 26 j 17:05	29°♑35'56	-1°17'27	
minimum elong	-8793 Mar 26 j 17:10	29°♑35'59	1°17'59	
max. Earth dist.	-8793 Mar 27 j 07:42	29°♑44'14	6.18637 AU	
	-8793 Mar 28 j 11:32	0°♒		
morning rise	-8793 Apr 09 j 09:13	2°♒41'29		
	-8793 Jun 08 j 14:50	15°♒		
retrograde	-8793 Aug 12 j 00:00	21°♒05'21		
opposition	-8793 Oct 10 j 02:55	16°♒05'44	-1°26'14	
min. Earth dist.	-8793 Oct 09 j 23:54	16°♒06'45	4.22801 AU	
	-8793 Oct 18 j 07:34	15°℞♒		
direct	-8793 Dec 09 j 09:47	11°♒01'50		
	-8792 Jan 30 j 15:09	15°♒		
evening set	-8792 Apr 16 j 01:31	29°♒41'10		
	-8792 Apr 17 j 11:26	0°♓		
conjunction	-8792 Apr 29 j 15:00	2°♓42'41	-0°34'17	
minimum elong	-8792 Apr 29 j 15:04	2°♓42'43	0°34'36	
max. Earth dist.	-8792 Apr 29 j 07:56	2°♓38'44	6.26687 AU	
morning rise	-8792 May 13 j 01:55	5°♓42'44		
retrograde	-8792 Sep 11 j 23:47	23°♓23'40		
opposition	-8792 Nov 10 j 09:18	18°♓27'50	-0°12'45	
min. Earth dist.	-8792 Nov 10 j 19:47	18°♓24'23	4.30018 AU	
direct	-8791 Jan 10 j 22:04	13°♓23'44		
asc. node	-8791 Jan 13 j 10:19	13°♓24'19		
	-8791 May 11 j 13:43	0°♈		
evening set	-8791 May 19 j 13:25	1°♈44'56		
conjunction	-8791 Jun 01 j 19:04	4°♈40'49	0°18'32	
minimum elong	-8791 Jun 01 j 19:02	4°♈40'48	0°18'31	
max. Earth dist.	-8791 May 31 j 20:25	4°♈28'15	6.32558 AU	
morning rise	-8791 Jun 14 j 21:01	7°♈34'52		
retrograde	-8791 Oct 13 j 10:20	24°♈52'15		
opposition	-8791 Dec 12 j 10:14	19°♈59'20	1°02'42	
min. Earth dist.	-8791 Dec 13 j 05:21	19°♈53'09	4.34157 AU	
direct	-8790 Feb 12 j 17:12	14°♈56'46		
	-8790 Jun 06 j 13:17	0°♉		
evening set	-8790 Jun 20 j 17:44	3°♉05'31		
max. Earth dist.	-8790 Jul 02 j 04:50	5°♉38'13	6.34571 AU	
conjunction	-8790 Jul 03 j 13:18	5°♉56'18	1°05'06	
minimum elong	-8790 Jul 03 j 13:13	5°♉56'15	1°05'22	
morning rise	-8790 Jul 16 j 05:49	8°♉45'34		
	-8790 Aug 14 j 08:47	15°♉		
retrograde	-8790 Nov 14 j 05:04	26°♉03'09		
opposition	-8789 Jan 13 j 19:23	21°♉11'33	1°59'26	
min. Earth dist.	-8789 Jan 14 j 19:36	21°♉03'50	4.34028 AU	
direct	-8789 Mar 17 j 08:22	16°♉11'36		
	-8789 Jul 02 j 14:56	0°♊		
evening set	-8789 Jul 22 j 02:40	4°♊15'52		
max. Earth dist.	-8789 Aug 02 j 06:27	6°♊46'04	6.32175 AU	
conjunction	-8789 Aug 03 j 14:33	7°♊04'08	1°32'45	
minimum elong	-8789 Aug 03 j 14:30	7°♊04'07	1°33'14	
morning rise	-8789 Aug 16 j 00:33	9°♊51'34		
retrograde	-8789 Dec 16 j 19:13	27°♊31'19		
opposition	-8788 Feb 15 j 23:15	22°♊39'07	2°21'58	
min. Earth dist.	-8788 Feb 16 j 19:37	22°♊32'40	4.29619 AU	
direct	-8788 Apr 18 j 00:15	17°♊42'12		
	-8788 Jul 25 j 20:06	0°♋		
evening set	-8788 Aug 21 j 08:22	5°♋49'59		
conjunction	-8788 Sep 02 j 17:56	8°♋39'35	1°33'21	
minimum elong	-8788 Sep 02 j 17:58	8°♋39'36	1°33'54	
max. Earth dist.	-8788 Sep 01 j 19:29	8°♋26'44	6.26047 AU	
morning rise	-8788 Sep 15 j 03:23	11°♋29'17		
retrograde	-8787 Jan 18 j 19:07	29°♋47'40		
opposition	-8787 Mar 21 j 04:42	24°♋53'08	2°01'54	
min. Earth dist.	-8787 Mar 21 j 16:25	24°♋49'24	4.22150 AU	
direct	-8787 May 21 j 06:44	19°♋58'51		
	-8787 Aug 15 j 10:24	0°♌		
evening set	-8787 Sep 22 j 04:41	8°♌16'51		
conjunction	-8787 Oct 04 j 18:22	11°♌11'37	1°05'04	
minimum elong	-8787 Oct 04 j 18:27	11°♌11'40	1°05'33	
max. Earth dist.	-8787 Oct 04 j 11:16	11°♌07'29	6.17929 AU	
morning rise	-8787 Oct 17 j 10:00	14°♌07'31		
	-8787 Oct 21 j 05:15	15°♌		
	-8786 Jan 07 j 10:22	0°♍		
retrograde	-8786 Feb 23 j 01:18	3°♍11'35		
	-8786 Apr 11 j 08:44	30°℞♌		
opposition	-8786 Apr 25 j 09:46	28°♌13'21	1°01'29	
min. Earth dist.	-8786 Apr 25 j 06:41	28°♌14'21	4.13906 AU	
direct	-8786 Jun 24 j 04:44	23°♌20'25		
	-8786 Aug 30 j 12:02	0°♍		
evening set	-8786 Oct 25 j 09:34	11°♍54'12		
conjunction	-8786 Nov 07 j 07:51	14°♍56'02	0°14'36	
minimum elong	-8786 Nov 07 j 07:52	14°♍56'02	0°14'49	

Attention, astronomical year style is used: The year -8786 in astronomical counting style is the year 8787 BCE in historical counting style.

behind sun begin	-8786 Nov 07 j 04:32	14°♍54'05	
behind sun end	-8786 Nov 07 j 11:13	14°♍58'00	
max. Earth dist.	-8786 Nov 07 j 21:19	15°♍03'56	6.10385 AU
morning rise	-8786 Nov 20 j 09:10	17°♍59'36	
	-8785 Jan 15 j 11:43	0°♎	
desc. node	-8785 Feb 17 j 09:09	5°♎04'05	
retrograde	-8785 Mar 31 j 09:25	7°♎42'51	
opposition	-8785 May 31 j 04:52	2°♎40'49	-0°22'19
min. Earth dist.	-8785 May 30 j 13:54	2°♎45'47	4.07677 AU
	-8785 Jun 21 j 15:57	30°℞♍	
direct	-8785 Jul 28 j 22:29	27°♍47'20	
	-8785 Sep 03 j 17:52	0°♎	
evening set	-8785 Nov 29 j 09:03	16°♎39'12	
conjunction	-8785 Dec 12 j 16:06	19°♎46'45	-0°42'05
minimum elong	-8785 Dec 12 j 16:02	19°♎46'43	0°42'13
max. Earth dist.	-8785 Dec 13 j 21:39	20°♎04'09	6.06035 AU
morning rise	-8785 Dec 26 j 02:44	22°♎56'11	
	-8784 Jan 26 j 09:03	0°♏	
retrograde	-8784 May 05 j 19:20	12°♏57'04	
opposition	-8784 Jul 04 j 22:37	7°♏52'27	-1°39'31
min. Earth dist.	-8784 Jul 03 j 23:24	8°♏00'18	4.05766 AU
direct	-8784 Sep 01 j 01:22	2°♏56'39	
	-8784 Dec 03 j 15:04	15°♏	
evening set	-8783 Jan 03 j 20:37	22°♏01'58	
conjunction	-8783 Jan 17 j 10:07	25°♏11'52	-1°23'53
minimum elong	-8783 Jan 17 j 10:02	25°♏11'49	1°24'18
max. Earth dist.	-8783 Jan 18 j 22:18	25°♏33'01	6.06622 AU
morning rise	-8783 Jan 31 j 02:12	28°♏23'02	
	-8783 Feb 07 j 02:24	0°♐	
retrograde	-8783 Jun 10 j 11:37	18°♐10'18	
opposition	-8783 Aug 08 j 23:25	13°♐05'25	-2°19'55
min. Earth dist.	-8783 Aug 08 j 01:52	13°♐12'47	4.08933 AU
direct	-8783 Oct 06 j 08:19	8°♐06'13	
evening set	-8782 Feb 09 j 20:14	27°♐12'45	
	-8782 Feb 21 j 23:35	0°♑	
conjunction	-8782 Feb 23 j 13:14	0°♑21'39	-1°34'51
minimum elong	-8782 Feb 23 j 13:15	0°♑21'40	1°35'24
max. Earth dist.	-8782 Feb 24 j 19:38	0°♑39'08	6.12012 AU
morning rise	-8782 Mar 09 j 06:49	3°♑30'45	
retrograde	-8782 Jul 14 j 18:24	22°♑36'51	
opposition	-8782 Sep 11 j 21:31	17°♑34'10	-2°09'45
min. Earth dist.	-8782 Sep 11 j 07:42	17°♑38'52	4.16019 AU
direct	-8782 Nov 10 j 03:41	12°♑31'52	
	-8781 Mar 11 j 16:39	0°♒	
evening set	-8781 Mar 18 j 02:21	1°♒25'52	
conjunction	-8781 Mar 31 j 19:11	4°♒31'18	-1°12'30
minimum elong	-8781 Mar 31 j 19:16	4°♒31'21	1°13'00
max. Earth dist.	-8781 Apr 01 j 06:21	4°♒37'37	6.20210 AU
morning rise	-8781 Apr 14 j 10:53	7°♒35'57	
	-8781 May 18 j 18:04	15°♒	
retrograde	-8781 Aug 16 j 14:03	25°♒51'17	
opposition	-8781 Oct 14 j 17:39	20°♒52'10	-1°16'48
min. Earth dist.	-8781 Oct 14 j 16:47	20°♒52'27	4.24448 AU
direct	-8781 Dec 14 j 06:36	15°♒48'05	
	-8780 Mar 31 j 17:16	0°♓	
evening set	-8780 Apr 20 j 20:44	4°♓22'34	
conjunction	-8780 May 04 j 09:26	7°♓23'02	-0°27'05
minimum elong	-8780 May 04 j 09:28	7°♓23'04	0°27'22
max. Earth dist.	-8780 May 04 j 01:27	7°♓18'36	6.28295 AU
morning rise	-8780 May 17 j 18:59	10°♓21'54	
retrograde	-8780 Sep 16 j 07:59	27°♓56'01	
opposition	-8780 Nov 14 j 20:27	23°♓00'38	-0°01'52
min. Earth dist.	-8780 Nov 15 j 07:39	22°♓56'57	4.31451 AU
asc. node	-8780 Nov 24 j 06:55	21°♓46'49	
direct	-8779 Jan 15 j 12:18	17°♓56'39	
	-8779 Apr 24 j 20:20	0°♈	
evening set	-8779 May 24 j 01:48	6°♈13'23	
max. Earth dist.	-8779 Jun 05 j 03:45	8°♈53'41	6.33690 AU
conjunction	-8779 Jun 06 j 05:49	9°♈08'09	0°25'38
minimum elong	-8779 Jun 06 j 05:47	9°♈08'07	0°25'40
morning rise	-8779 Jun 19 j 06:29	12°♈01'10	
retrograde	-8779 Oct 17 j 18:23	29°♈15'13	
opposition	-8779 Dec 16 j 19:51	24°♈22'34	1°11'55
min. Earth dist.	-8779 Dec 17 j 17:19	24°♈15'38	4.34912 AU
direct	-8778 Feb 17 j 06:06	19°♈20'12	
	-8778 May 20 j 19:54	0°♉	
evening set	-8778 Jun 25 j 00:57	7°♉26'15	
max. Earth dist.	-8778 Jul 06 j 10:11	9°♉57'54	6.34863 AU
conjunction	-8778 Jul 07 j 19:20	10°♉16'22	1°10'11
minimum elong	-8778 Jul 07 j 19:15	10°♉16'19	1°10'29
morning rise	-8778 Jul 20 j 10:33	13°♉04'59	
	-8778 Jul 29 j 03:42	15°♉	
	-8778 Nov 02 j 19:18	0°♊	
retrograde	-8778 Nov 18 j 12:09	0°♊23'19	
	-8778 Dec 04 j 06:44	30°℞♉	
opposition	-8777 Jan 18 j 05:33	25°♉31'44	2°04'42
min. Earth dist.	-8777 Jan 19 j 05:34	25°♉24'05	4.33860 AU
direct	-8777 Mar 21 j 17:03	20°♉32'07	
	-8777 Jun 15 j 14:30	0°♊	
evening set	-8777 Jul 26 j 07:50	8°♊36'04	
max. Earth dist.	-8777 Aug 06 j 10:22	11°♊05'52	6.31535 AU
conjunction	-8777 Aug 07 j 18:57	11°♊24'15	1°34'29
minimum elong	-8777 Aug 07 j 18:55	11°♊24'14	1°35'00
morning rise	-8777 Aug 20 j 04:32	14°♊11'44	
	-8777 Nov 15 j 11:11	0°♋	
retrograde	-8777 Dec 21 j 08:57	1°♋56'13	
	-8776 Jan 26 j 14:17	30°℞♊	
opposition	-8776 Feb 20 j 12:53	27°♊03'49	2°21'48
min. Earth dist.	-8776 Feb 21 j 10:08	26°♊57'05	4.28541 AU
direct	-8776 Apr 22 j 12:14	22°♊07'13	
	-8776 Jul 07 j 19:44	0°♋	
evening set	-8776 Aug 25 j 14:51	10°♋17'01	
max. Earth dist.	-8776 Sep 06 j 02:33	12°♋54'36	6.24617 AU
conjunction	-8776 Sep 07 j 00:42	13°♋07'18	1°31'08
minimum elong	-8776 Sep 07 j 00:45	13°♋07'20	1°31'41
morning rise	-8776 Sep 19 j 10:46	15°♋57'51	
	-8776 Nov 29 j 04:31	0°♌	
retrograde	-8775 Jan 23 j 12:38	4°♌23'56	
	-8775 Mar 21 j 21:30	30°℞♋	
opposition	-8775 Mar 25 j 22:55	29°♋28'56	1°55'49
min. Earth dist.	-8775 Mar 26 j 08:23	29°♋25'55	4.20475 AU
direct	-8775 May 25 j 19:26	24°♋34'55	
	-8775 Jul 25 j 20:04	0°♌	
evening set	-8775 Sep 26 j 16:24	12°♌56'57	
	-8775 Oct 05 j 12:21	15°♌	
conjunction	-8775 Oct 09 j 07:14	15°♌52'58	0°59'09
minimum elong	-8775 Oct 09 j 07:19	15°♌53'01	0°59'35
max. Earth dist.	-8775 Oct 09 j 03:08	15°♌50'35	6.16171 AU
morning rise	-8775 Oct 22 j 00:05	18°♌50'12	
	-8775 Dec 13 j 04:25	0°♍	
retrograde	-8774 Feb 28 j 03:43	8°♍02'54	
opposition	-8774 Apr 30 j 09:00	3°♍04'09	0°50'39
min. Earth dist.	-8774 Apr 30 j 04:59	3°♍05'27	4.12197 AU
	-8774 May 25 j 23:21	30°℞♌	

Attention, astronomical year style is used: The year -8774 in astronomical counting style is the year 8775 BCE in historical counting style.

direct	-8774 Jun 29 j 00:14	28°♌11'15		
	-8774 Aug 01 j 14:34	0°♍		
evening set	-8774 Oct 30 j 05:01	16°♍50'00		
conjunction	-8774 Nov 12 j 04:41	19°♍53'07	0°06'35	
minimum elong	-8774 Nov 12 j 04:40	19°♍53'07	0°06'45	
behind sun begin	-8774 Nov 11 j 21:05	19°♍48'40		
behind sun end	-8774 Nov 12 j 12:16	19°♍57'34		
max. Earth dist.	-8774 Nov 12 j 20:34	20°♍02'27	6.08892 AU	
morning rise	-8774 Nov 25 j 07:40	22°♍58'03		
	-8774 Dec 26 j 11:06	0°♎		
desc. node	-8774 Dec 27 j 16:52	0°♎15'56		
retrograde	-8773 Apr 05 j 14:03	12°♎47'46		
opposition	-8773 Jun 05 j 07:12	7°♎45'16	-0°34'26	
min. Earth dist.	-8773 Jun 04 j 13:26	7°♎51'11	4.06569 AU	
direct	-8773 Aug 02 j 19:56	2°♎51'36		
evening set	-8773 Dec 04 j 12:19	21°♎47'39		
conjunction	-8773 Dec 17 j 20:32	24°♎55'59	-0°49'25	
minimum elong	-8773 Dec 17 j 20:27	24°♎55'56	0°49'36	
max. Earth dist.	-8773 Dec 19 j 04:32	25°♎14'50	6.05393 AU	
morning rise	-8773 Dec 31 j 08:12	28°♎06'08		
	-8772 Jan 08 j 12:18	0°♏		
	-8772 Mar 26 j 13:31	15°♏		
retrograde	-8772 May 11 j 00:08	18°♏08'27		
	-8772 Jun 25 j 08:09	15°℞♏		
min. Earth dist.	-8772 Jul 09 j 01:14	13°♏11'35	4.05660 AU	
opposition	-8772 Jul 10 j 00:54	13°♏03'33	-1°48'07	
direct	-8772 Sep 06 j 03:45	8°♏07'16		
	-8772 Nov 12 j 18:46	15°♏		
evening set	-8771 Jan 09 j 04:16	27°♏14'11		
	-8771 Jan 21 j 01:05	0°♐		
conjunction	-8771 Jan 22 j 18:32	0°♐24'11	-1°27'33	
minimum elong	-8771 Jan 22 j 18:28	0°♐24'09	1°28'01	
max. Earth dist.	-8771 Jan 24 j 08:39	0°♐46'25	6.07032 AU	
morning rise	-8771 Feb 05 j 11:00	3°♐35'17		
retrograde	-8771 Jun 15 j 12:19	23°♐17'56		
opposition	-8771 Aug 13 j 22:19	18°♐13'11	-2°21'34	
min. Earth dist.	-8771 Aug 13 j 00:44	18°♐20'34	4.09804 AU	
direct	-8771 Oct 11 j 09:03	13°♐13'30		
	-8770 Feb 04 j 22:09	0°♑		
evening set	-8770 Feb 15 j 02:51	2°♑18'30		
conjunction	-8770 Feb 28 j 19:52	5°♑26'54	-1°33'33	
minimum elong	-8770 Feb 28 j 19:54	5°♑26'55	1°34'06	
max. Earth dist.	-8770 Mar 01 j 23:11	5°♑42'34	6.13210 AU	
morning rise	-8770 Mar 14 j 13:32	8°♑35'25		
retrograde	-8770 Jul 19 j 12:46	27°♑33'45		
opposition	-8770 Sep 16 j 15:57	22°♑31'26	-2°04'21	
min. Earth dist.	-8770 Sep 16 j 03:51	22°♑35'34	4.17381 AU	
direct	-8770 Nov 15 j 03:02	17°♑28'45		
	-8769 Feb 22 j 01:44	0°♒		
evening set	-8769 Mar 23 j 03:35	6°♒19'24		
conjunction	-8769 Apr 05 j 20:13	9°♒24'08	-1°07'05	
minimum elong	-8769 Apr 05 j 20:18	9°♒24'11	1°07'33	
max. Earth dist.	-8769 Apr 06 j 05:57	9°♒29'37	6.21628 AU	
morning rise	-8769 Apr 19 j 11:05	12°♒27'54		
	-8769 Apr 30 j 21:35	15°♒		
	-8769 Aug 02 j 02:00	0°♓		
retrograde	-8769 Aug 21 j 03:58	0°♓35'48		
	-8769 Sep 09 j 02:13	30°℞♒		
opposition	-8769 Oct 19 j 08:11	25°♒37'17	-1°06'54	
min. Earth dist.	-8769 Oct 19 j 08:54	25°♒37'02	4.25769 AU	
direct	-8769 Dec 19 j 00:51	20°♒33'09		
	-8768 Mar 13 j 05:44	0°♓		
evening set	-8768 Apr 25 j 16:06	9°♓04'14		
conjunction	-8768 May 09 j 03:37	12°♓03'49	-0°19'40	
minimum elong	-8768 May 09 j 03:38	12°♓03'51	0°19'54	
max. Earth dist.	-8768 May 08 j 15:20	11°♓57'00	6.29413 AU	
morning rise	-8768 May 22 j 12:10	15°♓01'48		
	-8768 Aug 11 j 12:39	0°♈		
retrograde	-8768 Sep 20 j 19:20	2°♈31'18		
asc. node	-8768 Oct 04 j 00:07	2°♈14'04		
	-8768 Oct 31 j 07:26	30°℞♓		
opposition	-8768 Nov 19 j 09:06	27°♓36'24	0°09'10	
min. Earth dist.	-8768 Nov 19 j 22:36	27°♓31'58	4.32288 AU	
direct	-8767 Jan 20 j 04:41	22°♓32'31		
	-8767 Apr 05 j 10:56	0°♈		
evening set	-8767 May 28 j 15:54	10°♈47'05		
conjunction	-8767 Jun 10 j 18:42	13°♈41'06	0°32'45	
minimum elong	-8767 Jun 10 j 18:39	13°♈41'04	0°32'49	
max. Earth dist.	-8767 Jun 09 j 16:01	13°♈26'18	6.34183 AU	
morning rise	-8767 Jun 23 j 17:48	16°♈33'20		
	-8767 Sep 01 j 23:14	0°♉		
retrograde	-8767 Oct 22 j 04:46	3°♉46'29		
	-8767 Dec 12 j 18:38	30°℞♈		
opposition	-8767 Dec 21 j 08:56	28°♈54'09	1°21'03	
min. Earth dist.	-8767 Dec 22 j 06:45	28°♈47'07	4.35047 AU	
direct	-8766 Feb 21 j 19:18	23°♈52'11		
	-8766 Apr 30 j 12:00	0°♉		
evening set	-8766 Jun 29 j 11:56	11°♉57'32		
max. Earth dist.	-8766 Jul 10 j 17:51	14°♉27'37	6.34609 AU	
conjunction	-8766 Jul 12 j 04:55	14°♉47'10	1°15'04	
minimum elong	-8766 Jul 12 j 04:50	14°♉47'08	1°15'25	
	-8766 Jul 13 j 03:54	15°♉		
morning rise	-8766 Jul 24 j 19:12	17°♉35'28		
	-8766 Sep 25 j 15:00	0°♊		
retrograde	-8766 Nov 23 j 03:32	4°♊56'36		
opposition	-8765 Jan 22 j 21:30	0°♊05'03	2°09'33	
	-8765 Jan 23 j 13:20	30°℞♉		
min. Earth dist.	-8765 Jan 23 j 22:27	29°♉57'06	4.33247 AU	
direct	-8765 Mar 26 j 08:50	25°♉05'51		
	-8765 May 24 j 21:12	0°♊		
evening set	-8765 Jul 30 j 18:06	13°♊10'38		
max. Earth dist.	-8765 Aug 10 j 21:36	15°♊41'19	6.30610 AU	
conjunction	-8765 Aug 12 j 04:48	15°♊58'57	1°35'47	
minimum elong	-8765 Aug 12 j 04:46	15°♊58'56	1°36'18	
morning rise	-8765 Aug 24 j 13:57	18°♊46'40		
	-8765 Oct 18 j 04:42	0°♋		
retrograde	-8765 Dec 26 j 02:25	6°♋36'45		
opposition	-8764 Feb 25 j 08:37	1°♋44'07	2°20'47	
min. Earth dist.	-8764 Feb 26 j 03:49	1°♋38'01	4.27385 AU	
	-8764 Mar 10 j 08:15	30°℞♊		
direct	-8764 Apr 27 j 03:43	26°♊48'00		
	-8764 Jun 12 j 23:16	0°♋		
evening set	-8764 Aug 30 j 03:16	14°♋59'45		
conjunction	-8764 Sep 11 j 13:25	17°♋50'43	1°28'13	
minimum elong	-8764 Sep 11 j 13:29	17°♋50'45	1°28'47	
max. Earth dist.	-8764 Sep 10 j 17:29	17°♋39'15	6.23345 AU	
morning rise	-8764 Sep 24 j 00:08	20°♋42'06		
	-8764 Nov 06 j 04:35	0°♌		
retrograde	-8763 Jan 28 j 13:53	9°♌15'11		
opposition	-8763 Mar 30 j 23:09	4°♌19'46	1°48'38	
min. Earth dist.	-8763 Mar 31 j 07:22	4°♌17'08	4.19173 AU	
	-8763 May 11 j 16:56	30°℞♋		
direct	-8763 May 30 j 16:35	29°♋26'01		
	-8763 Jun 18 j 13:12	0°♌		

Attention, astronomical year style is used: The year -8763 in astronomical counting style is the year 8764 BCE in historical counting style.

	-8763 Sep 18 j 23:52	15°♌	
evening set	-8763 Oct 01 j 09:02	17°♌50'25	
conjunction	-8763 Oct 14 j 01:01	20°♌47'27	0°52'35
minimum elong	-8763 Oct 14 j 01:05	20°♌47'29	0°52'59
max. Earth dist.	-8763 Oct 14 j 00:08	20°♌46'56	6.14998 AU
morning rise	-8763 Oct 26 j 19:15	23°♌45'48	
	-8763 Nov 23 j 12:17	0°♍	
retrograde	-8762 Mar 05 j 07:09	13°♍04'31	
opposition	-8762 May 05 j 11:52	8°♍05'13	0°39'05
min. Earth dist.	-8762 May 05 j 04:40	8°♍07'33	4.11272 AU
direct	-8762 Jul 03 j 21:59	3°♍12'23	
evening set	-8762 Nov 04 j 03:27	21°♍53'08	
desc. node	-8762 Nov 05 j 05:43	22°♍08'30	
conjunction	-8762 Nov 17 j 04:20	24°♍57'02	-0°01'46
minimum elong	-8762 Nov 17 j 04:19	24°♍57'02	0°01'39
behind sun begin	-8762 Nov 16 j 20:09	24°♍52'14	
behind sun end	-8762 Nov 17 j 12:29	25°♍01'49	
max. Earth dist.	-8762 Nov 17 j 23:13	25°♍08'09	6.08306 AU
morning rise	-8762 Nov 30 j 08:38	28°♍02'48	
	-8762 Dec 08 j 18:32	0°♎	
retrograde	-8761 Apr 10 j 18:31	17°♎55'10	
opposition	-8761 Jun 10 j 09:48	12°♎52'07	-0°46'19
min. Earth dist.	-8761 Jun 09 j 14:48	12°♎58'28	4.06381 AU
direct	-8761 Aug 07 j 21:03	7°♎58'08	
evening set	-8761 Dec 09 j 15:26	26°♎55'07	
	-8761 Dec 22 j 18:19	0°♏	
conjunction	-8761 Dec 23 j 00:42	0°♏03'45	-0°56'19
minimum elong	-8761 Dec 23 j 00:36	0°♏03'42	0°56'32
max. Earth dist.	-8761 Dec 24 j 11:25	0°♏24'11	6.05610 AU
morning rise	-8760 Jan 05 j 13:09	3°♏14'06	
	-8760 Feb 29 j 01:36	15°♏	
retrograde	-8760 May 16 j 01:45	23°♏14'07	
min. Earth dist.	-8760 Jul 14 j 00:24	18°♏17'12	4.06284 AU
opposition	-8760 Jul 15 j 00:21	18°♏09'04	-1°55'39
	-8760 Aug 09 j 06:29	15°℞♏	
direct	-8760 Sep 11 j 03:09	13°♏12'20	
	-8760 Oct 14 j 01:55	15°♏	
	-8759 Jan 04 j 07:48	0°♐	
evening set	-8759 Jan 14 j 08:51	2°♐18'27	
conjunction	-8759 Jan 27 j 23:27	5°♐28'11	-1°30'28
minimum elong	-8759 Jan 27 j 23:24	5°♐28'09	1°30'56
max. Earth dist.	-8759 Jan 29 j 11:18	5°♐49'02	6.07959 AU
morning rise	-8759 Feb 10 j 16:22	8°♐38'56	
retrograde	-8759 Jun 20 j 07:35	28°♐15'27	
opposition	-8759 Aug 18 j 17:04	23°♐10'51	-2°22'05
min. Earth dist.	-8759 Aug 17 j 20:31	23°♐17'53	4.10935 AU
direct	-8759 Oct 16 j 07:04	18°♐10'36	
	-8758 Jan 18 j 08:17	0°♑	
evening set	-8758 Feb 20 j 04:47	7°♑13'23	
conjunction	-8758 Mar 05 j 22:05	10°♑21'20	-1°31'37
minimum elong	-8758 Mar 05 j 22:08	10°♑21'22	1°32'11
max. Earth dist.	-8758 Mar 06 j 23:49	10°♑36'03	6.14456 AU
morning rise	-8758 Mar 19 j 15:23	13°♑29'10	
	-8758 Jun 15 j 17:54	0°♒	
retrograde	-8758 Jul 24 j 04:11	2°♒20'01	
	-8758 Aug 31 j 07:04	30°℞♑	
opposition	-8758 Sep 21 j 06:18	27°♑18'13	-1°58'19
min. Earth dist.	-8758 Sep 20 j 20:28	27°♑21'34	4.18603 AU
direct	-8758 Nov 19 j 21:18	22°♑15'13	
	-8757 Feb 02 j 17:08	0°♒	
evening set	-8757 Mar 28 j 01:01	11°♒03'15	

conjunction	-8757 Apr 10 j 17:09	14°♒07'23	-1°01'23
minimum elong	-8757 Apr 10 j 17:14	14°♒07'25	1°01'50
max. Earth dist.	-8757 Apr 10 j 22:17	14°♒10'15	6.22729 AU
	-8757 Apr 14 j 14:46	15°♒	
morning rise	-8757 Apr 24 j 07:32	17°♒10'27	
	-8757 Jun 27 j 10:45	0°♓	
retrograde	-8757 Aug 25 j 14:17	5°♓12'27	
opposition	-8757 Oct 23 j 19:52	0°♓14'26	-0°56'54
min. Earth dist.	-8757 Oct 23 j 22:37	0°♓13'31	4.26658 AU
	-8757 Oct 25 j 14:58	30°℞♒	
direct	-8757 Dec 23 j 16:15	25°♒10'11	
	-8756 Feb 20 j 05:06	0°♓	
evening set	-8756 Apr 30 j 08:39	13°♓39'29	
conjunction	-8756 May 13 j 19:17	16°♓38'26	-0°12'18
minimum elong	-8756 May 13 j 19:18	16°♓38'27	0°12'29
behind sun begin	-8756 May 13 j 14:04	16°♓35'33	
behind sun end	-8756 May 14 j 00:32	16°♓41'21	
max. Earth dist.	-8756 May 13 j 04:58	16°♓30'29	6.30042 AU
morning rise	-8756 May 27 j 02:38	19°♓35'42	
	-8756 Jul 16 j 22:41	0°♈	
asc. node	-8756 Aug 14 j 04:19	4°♈18'36	
retrograde	-8756 Sep 25 j 05:38	7°♈02'31	
opposition	-8756 Nov 23 j 20:41	2°♈08'06	0°19'57
min. Earth dist.	-8756 Nov 24 j 11:45	2°♈03'10	4.32616 AU
	-8756 Dec 10 j 16:50	30°℞♓	
direct	-8755 Jan 24 j 18:30	27°♓04'27	
	-8755 Mar 11 j 00:51	0°♈	
evening set	-8755 Jun 02 j 05:02	15°♈18'23	
max. Earth dist.	-8755 Jun 14 j 00:48	17°♈55'24	6.34172 AU
conjunction	-8755 Jun 15 j 06:25	18°♈11'50	0°39'36
minimum elong	-8755 Jun 15 j 06:21	18°♈11'48	0°39'42
morning rise	-8755 Jun 28 j 04:24	21°♈03'34	
	-8755 Aug 10 j 04:34	0°♉	
retrograde	-8755 Oct 26 j 17:17	8°♉17'37	
opposition	-8755 Dec 25 j 22:38	3°♉25'29	1°29'41
min. Earth dist.	-8755 Dec 26 j 21:27	3°♉18'08	4.34737 AU
	-8754 Jan 24 j 08:47	30°℞♈	
direct	-8754 Feb 26 j 10:00	28°♈23'51	
	-8754 Mar 31 j 14:30	0°♉	
	-8754 Jun 27 j 04:22	15°♉	
evening set	-8754 Jul 03 j 23:20	16°♉29'49	
max. Earth dist.	-8754 Jul 15 j 05:49	19°♉00'28	6.34021 AU
conjunction	-8754 Jul 16 j 15:21	19°♉19'12	1°19'30
minimum elong	-8754 Jul 16 j 15:16	19°♉19'10	1°19'53
morning rise	-8754 Jul 29 j 04:30	22°♉07'17	
	-8754 Sep 04 j 08:52	0°♊	
retrograde	-8754 Nov 27 j 18:09	9°♊32'11	
opposition	-8753 Jan 27 j 14:40	4°♊40'36	2°13'37
min. Earth dist.	-8753 Jan 28 j 14:31	4°♊33'02	4.32450 AU
	-8753 Mar 16 j 21:10	30°℞♉	
direct	-8753 Mar 30 j 23:55	29°♉41'56	
	-8753 Apr 14 j 03:37	0°♊	
evening set	-8753 Aug 04 j 05:36	17°♊47'51	
max. Earth dist.	-8753 Aug 15 j 09:13	20°♊19'03	6.29654 AU
conjunction	-8753 Aug 16 j 15:42	20°♊36'19	1°36'28
minimum elong	-8753 Aug 16 j 15:41	20°♊36'19	1°37'00
morning rise	-8753 Aug 29 j 00:50	23°♊24'22	
	-8753 Sep 28 j 08:06	0°♋	
retrograde	-8753 Dec 30 j 23:37	11°♋20'05	
opposition	-8752 Mar 01 j 06:08	6°♋27'08	2°18'47
min. Earth dist.	-8752 Mar 02 j 00:11	6°♋21'24	4.26331 AU
direct	-8752 May 01 j 22:57	1°♋31'25	
evening set	-8752 Sep 03 j 16:22	19°♋44'23	

Attention, astronomical year style is used: The year -8752 in astronomical counting style is the year 8753 BCE in historical counting style.

max. Earth dist.	-8752 Sep 15 j 10:51	22°♋26'39	6.22292 AU
conjunction	-8752 Sep 16 j 03:08	22°♋36'02	1°24'42
minimum elong	-8752 Sep 16 j 03:12	22°♋36'04	1°25'15
morning rise	-8752 Sep 28 j 14:30	25°♋28'10	
	-8752 Oct 18 j 18:46	0°♌	
retrograde	-8751 Feb 02 j 13:40	14°♌07'12	
opposition	-8751 Apr 04 j 23:42	9°♌11'17	1°40'37
min. Earth dist.	-8751 Apr 05 j 05:10	9°♌09'32	4.18188 AU
direct	-8751 Jun 04 j 12:26	4°♌17'50	
	-8751 Sep 01 j 07:54	15°♌	
evening set	-8751 Oct 06 j 02:03	22°♌43'31	
conjunction	-8751 Oct 18 j 19:03	25°♌41'23	0°45'38
minimum elong	-8751 Oct 18 j 19:07	25°♌41'25	0°46'01
max. Earth dist.	-8751 Oct 18 j 20:40	25°♌42'20	6.14158 AU
morning rise	-8751 Oct 31 j 14:38	28°♌40'42	
	-8751 Nov 06 j 07:54	0°♍	
retrograde	-8750 Mar 10 j 10:39	18°♍04'12	
opposition	-8750 May 10 j 13:43	13°♍04'19	0°27'16
min. Earth dist.	-8750 May 10 j 04:47	13°♍07'14	4.10622 AU
direct	-8750 Jul 08 j 20:32	8°♍11'25	
desc. node	-8750 Sep 14 j 06:54	14°♍57'13	
evening set	-8750 Nov 09 j 01:14	26°♍53'38	
conjunction	-8750 Nov 22 j 03:27	29°♍58'17	-0°09'56
minimum elong	-8750 Nov 22 j 03:26	29°♍58'16	0°09'52
behind sun begin	-8750 Nov 21 j 20:46	29°♍54'22	
behind sun end	-8750 Nov 22 j 10:06	0°♎02'10	
	-8750 Nov 22 j 06:24	0°♎	
max. Earth dist.	-8750 Nov 23 j 01:52	0°♎11'28	6.07910 AU
morning rise	-8750 Dec 05 j 08:59	3°♎04'47	
retrograde	-8749 Apr 15 j 21:46	22°♎59'02	
opposition	-8749 Jun 15 j 10:49	17°♎55'40	-0°57'47
min. Earth dist.	-8749 Jun 14 j 14:56	18°♎02'18	4.06297 AU
direct	-8749 Aug 12 j 19:40	13°♎01'27	
	-8749 Dec 06 j 03:51	0°♏	
evening set	-8749 Dec 14 j 17:43	1°♏59'30	
conjunction	-8749 Dec 28 j 03:41	5°♏08'22	-1°02'45
minimum elong	-8749 Dec 28 j 03:36	5°♏08'18	1°03'01
max. Earth dist.	-8749 Dec 29 j 13:54	5°♏28'27	6.05816 AU
morning rise	-8748 Jan 10 j 17:06	8°♏18'56	
	-8748 Feb 09 j 06:58	15°♏	
retrograde	-8748 May 21 j 01:06	28°♏17'02	
opposition	-8748 Jul 19 j 22:23	23°♏11'54	-2°02'18
min. Earth dist.	-8748 Jul 18 j 22:12	23°♏20'08	4.06781 AU
direct	-8748 Sep 16 j 02:00	18°♏14'41	
	-8748 Dec 17 j 14:38	0°♐	
evening set	-8747 Jan 19 j 12:44	7°♐20'52	
conjunction	-8747 Feb 02 j 04:01	10°♐30'30	-1°32'42
minimum elong	-8747 Feb 02 j 03:59	10°♐30'29	1°33'12
max. Earth dist.	-8747 Feb 03 j 15:56	10°♐51'21	6.08704 AU
morning rise	-8747 Feb 15 j 21:01	13°♐40'58	
	-8747 May 10 j 15:26	0°♑	
retrograde	-8747 Jun 25 j 04:24	3°♑12'07	
	-8747 Aug 09 j 11:11	30°℞♐	
opposition	-8747 Aug 23 j 11:17	28°♐07'50	-2°21'38
min. Earth dist.	-8747 Aug 22 j 16:42	28°♐14'12	4.11856 AU
direct	-8747 Oct 21 j 04:17	23°♐07'10	
	-8747 Dec 28 j 23:34	0°♑	
evening set	-8746 Feb 25 j 06:52	12°♑08'39	
conjunction	-8746 Mar 11 j 00:12	15°♑16'13	-1°29'03
minimum elong	-8746 Mar 11 j 00:16	15°♑16'15	1°29'36
max. Earth dist.	-8746 Mar 11 j 22:30	15°♑28'57	6.15467 AU
morning rise	-8746 Mar 24 j 17:29	18°♑23'35	
	-8746 May 19 j 09:31	0°♒	
retrograde	-8746 Jul 28 j 18:09	7°♒07'53	
opposition	-8746 Sep 25 j 21:04	2°♒06'34	-1°51'31
min. Earth dist.	-8746 Sep 25 j 12:29	2°♒09'29	4.19607 AU
	-8746 Oct 11 j 22:35	30°℞♑	
direct	-8746 Nov 24 j 15:04	27°♑03'16	
	-8745 Jan 07 j 18:41	0°♒	
	-8745 Mar 29 j 05:57	15°♒	
evening set	-8745 Apr 01 j 22:48	15°♒49'23	
conjunction	-8745 Apr 15 j 14:30	18°♒52'58	-0°55'15
minimum elong	-8745 Apr 15 j 14:35	18°♒53'01	0°55'41
max. Earth dist.	-8745 Apr 15 j 16:45	18°♒54'13	6.23670 AU
morning rise	-8745 Apr 29 j 04:09	21°♒55'22	
	-8745 Jun 06 j 02:32	0°♓	
retrograde	-8745 Aug 30 j 03:12	9°♓52'10	
opposition	-8745 Oct 28 j 08:51	4°♓54'42	-0°46'27
min. Earth dist.	-8745 Oct 28 j 14:03	4°♓52'58	4.27437 AU
	-8745 Dec 18 j 08:44	30°℞♒	
direct	-8745 Dec 28 j 09:28	29°♒50'28	
	-8744 Jan 07 j 11:27	0°♓	
evening set	-8744 May 05 j 02:04	18°♓18'05	
conjunction	-8744 May 18 j 11:38	21°♓16'23	-0°04'47
minimum elong	-8744 May 18 j 11:39	21°♓16'24	0°04'56
behind sun begin	-8744 May 18 j 03:40	21°♓11'59	
behind sun end	-8744 May 18 j 19:37	21°♓20'48	
max. Earth dist.	-8744 May 17 j 18:28	21°♓06'52	6.30601 AU
morning rise	-8744 May 31 j 17:51	24°♓12'58	
asc. node	-8744 Jun 23 j 02:00	29°♓02'42	
	-8744 Jun 27 j 16:16	0°♈	
retrograde	-8744 Sep 29 j 16:13	11°♈37'22	
opposition	-8744 Nov 28 j 09:35	6°♈43'19	0°30'46
min. Earth dist.	-8744 Nov 29 j 01:33	6°♈38'06	4.32941 AU
direct	-8743 Jan 29 j 09:36	1°♈39'52	
evening set	-8743 Jun 06 j 18:58	19°♈52'59	
conjunction	-8743 Jun 19 j 19:01	22°♈45'50	0°46'18
minimum elong	-8743 Jun 19 j 18:57	22°♈45'48	0°46'27
max. Earth dist.	-8743 Jun 18 j 13:22	22°♈29'21	6.34253 AU
morning rise	-8743 Jul 02 j 15:35	25°♈36'58	
	-8743 Jul 22 j 21:16	0°♉	
retrograde	-8743 Oct 31 j 05:50	12°♉51'35	
opposition	-8743 Dec 30 j 13:27	7°♉59'40	1°37'53
min. Earth dist.	-8743 Dec 31 j 12:41	7°♉52'13	4.34592 AU
direct	-8742 Mar 03 j 01:50	2°♉58'29	
	-8742 Jun 10 j 05:11	15°♉	
evening set	-8742 Jul 08 j 10:57	21°♉04'03	
max. Earth dist.	-8742 Jul 19 j 15:36	23°♉33'58	6.33651 AU
conjunction	-8742 Jul 21 j 01:45	23°♉53'05	1°23'30
minimum elong	-8742 Jul 21 j 01:41	23°♉53'03	1°23'54
morning rise	-8742 Aug 02 j 14:07	26°♉40'56	
	-8742 Aug 17 j 16:31	0°♊	
retrograde	-8742 Dec 02 j 09:59	14°♊08'54	
opposition	-8741 Feb 01 j 08:27	9°♊17'11	2°16'53
min. Earth dist.	-8741 Feb 02 j 07:28	9°♊09'52	4.31900 AU
direct	-8741 Apr 04 j 16:30	4°♊18'54	
evening set	-8741 Aug 08 j 16:30	22°♊24'47	
max. Earth dist.	-8741 Aug 19 j 23:08	24°♊57'54	6.28976 AU
conjunction	-8741 Aug 21 j 02:23	25°♊13'22	1°36'34
minimum elong	-8741 Aug 21 j 02:23	25°♊13'22	1°37'07
morning rise	-8741 Sep 02 j 11:13	28°♊01'36	
	-8741 Sep 11 j 06:33	0°♋	
retrograde	-8740 Jan 04 j 18:18	16°♋01'49	

Attention, astronomical year style is used: The year -8740 in astronomical counting style is the year 8741 BCE in historical counting style.

opposition	-8740 Mar 06 j 02:41	11°♋08'32	2°15'54	
min. Earth dist.	-8740 Mar 06 j 19:00	11°♋03'21	4.25563 AU	
direct	-8740 May 06 j 16:27	6°♋13'12		
evening set	-8740 Sep 08 j 04:40	24°♋26'24		
conjunction	-8740 Sep 20 j 15:47	27°♋18'34	1°20'40	
minimum elong	-8740 Sep 20 j 15:51	27°♋18'36	1°21'10	
max. Earth dist.	-8740 Sep 20 j 00:47	27°♋09'55	6.21496 AU	
	-8740 Oct 02 j 08:08	0°♌		
morning rise	-8740 Oct 03 j 04:04	0°♌11'25		
	-8740 Dec 17 j 10:08	15°♌		
retrograde	-8739 Feb 07 j 12:28	18°♌55'28		
	-8739 Apr 01 j 23:00	15°℞♌		
opposition	-8739 Apr 09 j 22:28	13°♌58'56	1°31'59	
min. Earth dist.	-8739 Apr 10 j 01:54	13°♌57'50	4.17393 AU	
direct	-8739 Jun 09 j 07:26	9°♌05'35		
	-8739 Aug 11 j 18:44	15°♌		
evening set	-8739 Oct 10 j 17:21	27°♌32'03		
	-8739 Oct 21 j 07:02	0°♍		
conjunction	-8739 Oct 23 j 11:37	0°♍30'45	0°38'29	
minimum elong	-8739 Oct 23 j 11:41	0°♍30'47	0°38'49	
max. Earth dist.	-8739 Oct 23 j 16:58	0°♍33'53	6.13452 AU	
morning rise	-8739 Nov 05 j 08:24	3°♍30'57		
retrograde	-8738 Mar 15 j 11:42	22°♍58'34		
opposition	-8738 May 15 j 13:17	17°♍58'10	0°15'25	
min. Earth dist.	-8738 May 15 j 03:10	18°♍01'28	4.10053 AU	
direct	-8738 Jul 13 j 16:51	13°♍05'12		
desc. node	-8738 Jul 25 j 16:12	13°♍19'32		
	-8738 Nov 06 j 02:28	0°♎		
evening set	-8738 Nov 13 j 21:36	1°♎48'50		
conjunction	-8738 Nov 27 j 00:48	4°♎54'07	-0°17'54	
minimum elong	-8738 Nov 27 j 00:46	4°♎54'05	0°17'53	
max. Earth dist.	-8738 Nov 27 j 23:31	5°♎07'29	6.07514 AU	
morning rise	-8738 Dec 10 j 07:41	8°♎01'19		
retrograde	-8737 Apr 20 j 21:20	27°♎57'24		
opposition	-8737 Jun 20 j 09:14	22°♎53'38	-1°08'37	
min. Earth dist.	-8737 Jun 19 j 12:11	23°♎00'42	4.06121 AU	
direct	-8737 Aug 17 j 16:20	17°♎59'02		
	-8737 Nov 18 j 21:33	0°♏		
evening set	-8737 Dec 19 j 18:36	6°♏58'51		
conjunction	-8736 Jan 02 j 05:38	10°♏08'05	-1°08'37	
minimum elong	-8736 Jan 02 j 05:32	10°♏08'02	1°08'56	
max. Earth dist.	-8736 Jan 03 j 17:26	10°♏29'06	6.05873 AU	
morning rise	-8736 Jan 15 j 19:36	13°♏18'52		
	-8736 Jan 23 j 02:21	15°♏		
	-8736 Apr 09 j 19:35	0°♐		
retrograde	-8736 May 26 j 01:11	3°♐15'28		
	-8736 Jul 11 j 01:12	30°℞♏		
opposition	-8736 Jul 24 j 18:41	28°♏10'21	-2°07'59	
min. Earth dist.	-8736 Jul 23 j 19:55	28°♏18'06	4.07080 AU	
direct	-8736 Sep 20 j 23:27	23°♏12'40		
	-8736 Nov 27 j 08:42	0°♐		
evening set	-8735 Jan 24 j 15:50	12°♐19'49		
conjunction	-8735 Feb 07 j 07:33	15°♐29'26	-1°34'14	
minimum elong	-8735 Feb 07 j 07:31	15°♐29'25	1°34'45	
max. Earth dist.	-8735 Feb 08 j 17:24	15°♐49'03	6.09203 AU	
morning rise	-8735 Feb 21 j 00:59	18°♐39'47		
	-8735 Apr 15 j 03:52	0°♑		
retrograde	-8735 Jun 29 j 22:23	8°♑06'25		
min. Earth dist.	-8735 Aug 27 j 10:36	3°♑08'40	4.12523 AU	
opposition	-8735 Aug 28 j 04:43	3°♑02'28	-2°20'12	
	-8735 Sep 21 j 04:26	30°℞♐		
direct	-8735 Oct 25 j 23:10	28°♐01'23		
	-8735 Nov 30 j 03:46	0°♑		
evening set	-8734 Mar 02 j 08:42	17°♑02'32		
conjunction	-8734 Mar 16 j 02:07	20°♑09'49	-1°25'51	
minimum elong	-8734 Mar 16 j 02:11	20°♑09'52	1°26'23	
max. Earth dist.	-8734 Mar 16 j 21:40	20°♑20'57	6.16269 AU	
morning rise	-8734 Mar 29 j 19:10	23°♑16'45		
	-8734 Apr 29 j 12:14	0°♒		
retrograde	-8734 Aug 02 j 10:28	11°♒55'19		
opposition	-8734 Sep 30 j 12:09	6°♒54'32	-1°43'56	
min. Earth dist.	-8734 Sep 30 j 06:07	6°♒56'35	4.20454 AU	
direct	-8734 Nov 29 j 10:56	1°♒51'02		
	-8733 Mar 12 j 02:49	15°♒		
evening set	-8733 Apr 06 j 20:59	20°♒35'39		
conjunction	-8733 Apr 20 j 12:15	23°♒38'43	-0°48'43	
minimum elong	-8733 Apr 20 j 12:19	23°♒38'46	0°49'06	
max. Earth dist.	-8733 Apr 20 j 12:26	23°♒38'50	6.24519 AU	
morning rise	-8733 May 04 j 01:04	26°♒40'28		
	-8733 May 19 j 04:08	0°♓		
retrograde	-8733 Sep 03 j 14:31	14°♓32'18		
opposition	-8733 Nov 01 j 22:15	9°♓35'21	-0°35'39	
min. Earth dist.	-8733 Nov 02 j 04:05	9°♓33'25	4.28223 AU	
direct	-8732 Jan 02 j 01:38	4°♓31'08		
asc. node	-8732 May 01 j 11:30	21°♓07'18		
evening set	-8732 May 09 j 19:42	22°♓56'54		
max. Earth dist.	-8732 May 22 j 08:44	25°♓43'44	6.31273 AU	
conjunction	-8732 May 23 j 04:01	25°♓54'27	0°02'56	
minimum elong	-8732 May 23 j 04:00	25°♓54'26	0°02'50	
behind sun begin	-8732 May 22 j 19:51	25°♓49'56		
behind sun end	-8732 May 23 j 12:08	25°♓58'57		
morning rise	-8732 Jun 05 j 08:59	28°♓50'14		
	-8732 Jun 10 j 15:52	0°♈		
retrograde	-8732 Oct 04 j 04:29	16°♈11'55		
opposition	-8732 Dec 02 j 22:59	11°♈18'16	0°41'25	
min. Earth dist.	-8732 Dec 03 j 16:45	11°♈12'29	4.33440 AU	
direct	-8731 Feb 03 j 02:41	6°♈15'04		
evening set	-8731 Jun 11 j 08:12	24°♈26'28		
max. Earth dist.	-8731 Jun 23 j 00:10	27°♈01'33	6.34505 AU	
conjunction	-8731 Jun 24 j 06:52	27°♈18'36	0°52'43	
minimum elong	-8731 Jun 24 j 06:48	27°♈18'33	0°52'55	
	-8731 Jul 06 j 09:42	0°♉		
morning rise	-8731 Jul 07 j 02:06	0°♉09'04		
	-8731 Sep 26 j 02:16	15°♉		
retrograde	-8731 Nov 04 j 17:09	17°♉23'51		
	-8731 Dec 14 j 21:54	15°℞♉		
opposition	-8730 Jan 04 j 03:49	12°♉32'02	1°45'27	
min. Earth dist.	-8730 Jan 05 j 02:49	12°♉24'40	4.34589 AU	
direct	-8730 Mar 07 j 16:11	7°♉31'10		
	-8730 May 22 j 02:51	15°♉		
evening set	-8730 Jul 12 j 21:29	25°♉35'56		
max. Earth dist.	-8730 Jul 24 j 02:19	28°♉06'08	6.33362 AU	
conjunction	-8730 Jul 25 j 11:14	28°♉24'35	1°26'59	
minimum elong	-8730 Jul 25 j 11:11	28°♉24'33	1°27'25	
	-8730 Aug 01 j 13:24	0°♊		
morning rise	-8730 Aug 06 j 22:38	1°♊12'10		
retrograde	-8730 Dec 07 j 01:05	18°♊43'05		
opposition	-8729 Feb 06 j 01:08	13°♊51'19	2°19'19	
min. Earth dist.	-8729 Feb 07 j 00:14	13°♊43'59	4.31333 AU	
direct	-8729 Apr 09 j 08:10	8°♊53'27		
evening set	-8729 Aug 13 j 02:22	26°♊59'35		
max. Earth dist.	-8729 Aug 24 j 08:32	29°♊32'48	6.28147 AU	
conjunction	-8729 Aug 25 j 11:56	29°♊48'23	1°36'06	

Attention, astronomical year style is used: The year -8729 in astronomical counting style is the year 8730 BCE in historical counting style.

minimum elong	-8729 Aug 25 j 11:57	29°♊48'23	1°36'40	
	-8729 Aug 26 j 08:21	0°♋		
morning rise	-8729 Sep 06 j 20:58	2°♋37'01		
retrograde	-8728 Jan 09 j 13:33	20°♋42'37		
opposition	-8728 Mar 10 j 22:41	15°♋48'55	2°12'13	
min. Earth dist.	-8728 Mar 11 j 13:17	15°♋44'17	4.24518 AU	
direct	-8728 May 11 j 08:24	10°♋53'53		
evening set	-8728 Sep 12 j 16:31	29°♋08'35		
	-8728 Sep 16 j 09:59	0°♌		
conjunction	-8728 Sep 25 j 04:29	2°♌01'33	1°16'08	
minimum elong	-8728 Sep 25 j 04:34	2°♌01'35	1°16'38	
max. Earth dist.	-8728 Sep 24 j 16:56	1°♌54'52	6.20335 AU	
morning rise	-8728 Oct 07 j 17:33	4°♌55'18		
	-8728 Nov 23 j 15:38	15°♌		
retrograde	-8727 Feb 12 j 13:04	23°♌45'51		
opposition	-8727 Apr 14 j 21:45	18°♌48'51	1°22'44	
min. Earth dist.	-8727 Apr 15 j 00:05	18°♌48'06	4.16186 AU	
	-8727 May 19 j 00:32	15°℞♌		
direct	-8727 Jun 14 j 02:42	13°♌55'41		
	-8727 Jul 10 j 00:28	15°♌		
	-8727 Oct 04 j 23:30	0°♍		
evening set	-8727 Oct 15 j 10:25	2°♍24'44		
conjunction	-8727 Oct 28 j 05:46	5°♍24'27	0°31'00	
minimum elong	-8727 Oct 28 j 05:49	5°♍24'28	0°31'18	
max. Earth dist.	-8727 Oct 28 j 12:07	5°♍28'09	6.12305 AU	
morning rise	-8727 Nov 10 j 04:09	8°♍25'49		
retrograde	-8726 Mar 20 j 13:33	27°♍59'13		
opposition	-8726 May 20 j 14:30	22°♍58'15	0°03'16	
min. Earth dist.	-8726 May 20 j 02:02	23°♍02'21	4.09065 AU	
desc. node	-8726 Jun 04 j 14:37	21°♍03'10		
direct	-8726 Jul 18 j 13:54	18°♍05'07		
	-8726 Oct 19 j 13:57	0°♎		
evening set	-8726 Nov 18 j 21:04	6°♎52'03		
conjunction	-8726 Dec 02 j 01:43	9°♎58'14	-0°25'55	
minimum elong	-8726 Dec 02 j 01:40	9°♎58'12	0°25'56	
max. Earth dist.	-8726 Dec 03 j 03:50	10°♎13'37	6.06776 AU	
morning rise	-8726 Dec 15 j 09:42	13°♎06'17		
	-8725 Mar 11 j 20:31	0°♏		
retrograde	-8725 Apr 26 j 03:17	3°♏05'15		
	-8725 Jun 10 j 07:29	30°℞♎		
opposition	-8725 Jun 25 j 11:00	28°♎01'11	-1°19'16	
min. Earth dist.	-8725 Jun 24 j 14:02	28°♎08'14	4.05719 AU	
direct	-8725 Aug 22 j 17:12	23°♎06'14		
	-8725 Oct 29 j 07:30	0°♏		
evening set	-8725 Dec 24 j 23:47	12°♏08'39		
	-8724 Jan 06 j 04:29	15°♏		
conjunction	-8724 Jan 07 j 11:36	15°♏18'15	-1°14'09	
minimum elong	-8724 Jan 07 j 11:30	15°♏18'11	1°14'30	
max. Earth dist.	-8724 Jan 08 j 23:33	15°♏39'20	6.05825 AU	
morning rise	-8724 Jan 21 j 02:28	18°♏29'21		
	-8724 Mar 14 j 10:18	0°♐		
retrograde	-8724 May 31 j 02:13	8°♐24'18		
opposition	-8724 Jul 29 j 18:30	3°♐19'13	-2°12'53	
min. Earth dist.	-8724 Jul 28 j 18:51	3°♐27'17	4.07438 AU	
	-8724 Aug 25 j 13:07	30°℞♏		
direct	-8724 Sep 25 j 22:53	28°♏21'05		
	-8724 Oct 27 j 13:56	0°♐		
evening set	-8723 Jan 29 j 23:03	17°♐28'49		
conjunction	-8723 Feb 12 j 15:13	20°♐38'18	-1°35'07	
minimum elong	-8723 Feb 12 j 15:12	20°♐38'17	1°35'40	
max. Earth dist.	-8723 Feb 14 j 00:13	20°♐57'23	6.09954 AU	
morning rise	-8723 Feb 26 j 08:47	23°♐48'21		
	-8723 Mar 26 j 02:56	0°♑		
retrograde	-8723 Jul 04 j 20:30	13°♑08'59		
min. Earth dist.	-8723 Sep 01 j 08:48	8°♑11'00	4.13610 AU	
opposition	-8723 Sep 02 j 01:13	8°♑05'23	-2°17'43	
direct	-8723 Oct 31 j 00:09	3°♑03'56		
evening set	-8722 Mar 07 j 12:57	22°♑02'42		
conjunction	-8722 Mar 21 j 06:25	25°♑09'25	-1°22'01	
minimum elong	-8722 Mar 21 j 06:29	25°♑09'27	1°22'33	
max. Earth dist.	-8722 Mar 22 j 01:20	25°♑20'10	6.17646 AU	
morning rise	-8722 Apr 03 j 23:00	28°♑15'34		
	-8722 Apr 11 j 17:24	0°♒		
	-8722 Jul 04 j 21:22	15°♒		
retrograde	-8722 Aug 07 j 01:17	16°♒45'52		
	-8722 Sep 09 j 00:33	15°℞♒		
opposition	-8722 Oct 05 j 04:25	11°♒45'36	-1°35'36	
min. Earth dist.	-8722 Oct 04 j 22:42	11°♒47'32	4.22001 AU	
direct	-8722 Dec 04 j 06:54	6°♒41'56		
	-8721 Feb 20 j 18:44	15°♒		
evening set	-8721 Apr 11 j 18:55	25°♒22'06		
conjunction	-8721 Apr 25 j 09:14	28°♒24'08	-0°41'55	
minimum elong	-8721 Apr 25 j 09:18	28°♒24'10	0°42'15	
max. Earth dist.	-8721 Apr 25 j 06:09	28°♒22'25	6.26133 AU	
	-8721 May 02 j 12:46	0°♓		
morning rise	-8721 May 08 j 21:11	1°♓24'49		
retrograde	-8721 Sep 08 j 02:08	19°♓09'14		
opposition	-8721 Nov 06 j 10:58	14°♓12'46	-0°24'49	
min. Earth dist.	-8721 Nov 06 j 19:13	14°♓10'02	4.29753 AU	
direct	-8720 Jan 06 j 20:18	9°♓08'34		
asc. node	-8720 Mar 11 j 07:00	14°♓50'26		
evening set	-8720 May 14 j 10:22	27°♓29'34		
	-8720 May 25 j 18:33	0°♈		
conjunction	-8720 May 27 j 17:28	0°♈26'01	0°10'18	
minimum elong	-8720 May 27 j 17:27	0°♈26'00	0°10'13	
behind sun begin	-8720 May 27 j 11:00	0°♈22'27		
behind sun end	-8720 May 27 j 23:54	0°♈29'34		
max. Earth dist.	-8720 May 26 j 21:06	0°♈14'44	6.32600 AU	
morning rise	-8720 Jun 09 j 20:54	3°♈20'39		
retrograde	-8720 Oct 08 j 10:50	20°♈37'47		
opposition	-8720 Dec 07 j 09:07	15°♈44'27	0°51'25	
min. Earth dist.	-8720 Dec 08 j 03:18	15°♈38'33	4.34476 AU	
direct	-8719 Feb 07 j 14:43	10°♈41'29		
evening set	-8719 Jun 15 j 17:09	28°♈49'24		
	-8719 Jun 21 j 00:59	0°♉		
max. Earth dist.	-8719 Jun 27 j 05:45	1°♉22'33	6.35153 AU	
conjunction	-8719 Jun 28 j 14:15	1°♉40'37	0°58'33	
minimum elong	-8719 Jun 28 j 14:11	1°♉40'35	0°58'48	
morning rise	-8719 Jul 11 j 08:12	4°♉30'16		
	-8719 Aug 31 j 21:38	15°♉		
retrograde	-8719 Nov 09 j 01:49	21°♉44'19		
opposition	-8718 Jan 08 j 14:00	16°♉52'39	1°52'04	
min. Earth dist.	-8718 Jan 09 j 14:50	16°♉44'43	4.34805 AU	
	-8718 Jan 23 j 15:27	15°℞♉		
direct	-8718 Mar 12 j 04:02	11°♉52'07		
	-8718 Apr 28 j 04:05	15°♉		
evening set	-8718 Jul 17 j 02:51	29°♉55'26		
	-8718 Jul 17 j 11:04	0°♊		
max. Earth dist.	-8718 Jul 28 j 05:36	2°♊24'37	6.33098 AU	
conjunction	-8718 Jul 29 j 15:44	2°♊43'47	1°29'49	
minimum elong	-8718 Jul 29 j 15:40	2°♊43'45	1°30'16	
morning rise	-8718 Aug 11 j 02:27	5°♊31'09		
retrograde	-8718 Dec 11 j 11:15	23°♊05'23		
opposition	-8717 Feb 10 j 13:25	18°♊13'26	2°20'51	

Attention, astronomical year style is used: The year -8717 in astronomical counting style is the year 8718 BCE in historical counting style.

min. Earth dist.	-8717 Feb 11 j 11:47	18°♊06'20	4.30616 AU
direct	-8717 Apr 13 j 17:27	13°♊15'56	
	-8717 Aug 11 j 04:13	0°♋	
evening set	-8717 Aug 17 j 07:53	1°♋23'05	
conjunction	-8717 Aug 29 j 17:26	4°♋12'17	1°35'05
minimum elong	-8717 Aug 29 j 17:28	4°♋12'18	1°35'38
max. Earth dist.	-8717 Aug 28 j 15:28	3°♋57'28	6.27035 AU
morning rise	-8717 Sep 11 j 02:33	7°♋01'26	
retrograde	-8716 Jan 14 j 06:43	25°♋13'39	
opposition	-8716 Mar 15 j 15:04	20°♋19'41	2°07'53
min. Earth dist.	-8716 Mar 16 j 05:43	20°♋15'01	4.23069 AU
direct	-8716 May 15 j 21:26	15°♋24'58	
	-8716 Aug 31 j 16:37	0°♌	
evening set	-8716 Sep 17 j 01:53	3°♌42'54	
conjunction	-8716 Sep 29 j 14:36	6°♌36'55	1°11'15
minimum elong	-8716 Sep 29 j 14:41	6°♌36'58	1°11'44
max. Earth dist.	-8716 Sep 29 j 03:22	6°♌30'24	6.18686 AU
morning rise	-8716 Oct 12 j 04:58	9°♌31'55	
	-8716 Nov 05 j 12:44	15°♌	
retrograde	-8715 Feb 17 j 10:32	28°♌30'56	
opposition	-8715 Apr 19 j 18:51	23°♌33'25	1°13'09
min. Earth dist.	-8715 Apr 19 j 18:34	23°♌33'30	4.14460 AU
direct	-8715 Jun 18 j 17:59	18°♌40'23	
	-8715 Sep 17 j 21:50	0°♍	
evening set	-8715 Oct 20 j 02:34	7°♍14'13	
conjunction	-8715 Nov 01 j 23:27	10°♍15'18	0°23'24
minimum elong	-8715 Nov 01 j 23:29	10°♍15'19	0°23'39
max. Earth dist.	-8715 Nov 02 j 09:38	10°♍21'17	6.10681 AU
morning rise	-8715 Nov 14 j 23:12	13°♍18'03	
	-8714 Feb 08 j 23:47	0°♎	
retrograde	-8714 Mar 25 j 18:43	2°♎59'06	
desc. node	-8714 Apr 15 j 04:20	2°♎19'36	
	-8714 May 09 j 17:24	30°℞♍	
opposition	-8714 May 25 j 15:42	27°♍57'40	-0°08'51
min. Earth dist.	-8714 May 25 j 02:18	28°♍02'05	4.07688 AU
direct	-8714 Jul 23 j 11:59	23°♍04'27	
	-8714 Sep 29 j 10:43	0°♎	
evening set	-8714 Nov 23 j 21:38	11°♎56'11	
conjunction	-8714 Dec 07 j 03:27	15°♎03'22	-0°33'44
minimum elong	-8714 Dec 07 j 03:23	15°♎03'19	0°33'49
max. Earth dist.	-8714 Dec 08 j 07:27	15°♎19'52	6.05771 AU
morning rise	-8714 Dec 20 j 12:53	18°♎12'26	
	-8713 Feb 13 j 01:33	0°♏	
retrograde	-8713 May 01 j 07:34	8°♏14'51	
opposition	-8713 Jun 30 j 13:05	3°♏10'29	-1°29'19
min. Earth dist.	-8713 Jun 29 j 13:50	3°♏18'19	4.05222 AU
	-8713 Jul 26 j 05:22	30°℞♎	
direct	-8713 Aug 27 j 16:17	28°♎15'11	
	-8713 Sep 29 j 03:04	0°♏	
	-8713 Dec 20 j 03:29	15°♏	
evening set	-8713 Dec 30 j 06:25	17°♏20'31	
conjunction	-8712 Jan 12 j 19:06	20°♏30'26	-1°19'06
minimum elong	-8712 Jan 12 j 19:00	20°♏30'23	1°19'29
max. Earth dist.	-8712 Jan 14 j 08:20	20°♏52'16	6.05852 AU
morning rise	-8712 Jan 26 j 10:34	23°♏41'45	
	-8712 Feb 23 j 08:05	0°♐	
retrograde	-8712 Jun 05 j 04:33	13°♐34'12	
opposition	-8712 Aug 03 j 18:33	8°♐29'04	-2°16'44
min. Earth dist.	-8712 Aug 02 j 19:34	8°♐36'56	4.07974 AU
direct	-8712 Oct 01 j 01:08	3°♐30'26	
evening set	-8711 Feb 04 j 06:20	22°♐37'44	
conjunction	-8711 Feb 17 j 22:59	25°♐46'58	-1°35'16
minimum elong	-8711 Feb 17 j 22:59	25°♐46'58	1°35'49
max. Earth dist.	-8711 Feb 19 j 08:22	26°♐06'13	6.10914 AU
morning rise	-8711 Mar 03 j 16:34	28°♐56'34	
	-8711 Mar 08 j 07:49	0°♑	
retrograde	-8711 Jul 09 j 16:41	18°♑10'05	
opposition	-8711 Sep 06 j 21:00	13°♑06'50	-2°14'12
min. Earth dist.	-8711 Sep 06 j 05:00	13°♑12'18	4.14862 AU
direct	-8711 Nov 04 j 22:57	8°♑04'58	
evening set	-8710 Mar 12 j 16:14	27°♑00'45	
	-8710 Mar 25 j 21:23	0°♒	
conjunction	-8710 Mar 26 j 09:19	0°♒06'46	-1°17'37
minimum elong	-8710 Mar 26 j 09:24	0°♒06'49	1°18'08
max. Earth dist.	-8710 Mar 27 j 00:15	0°♒15'13	6.19049 AU
morning rise	-8710 Apr 09 j 01:35	3°♒12'09	
	-8710 Jun 05 j 09:55	15°♒	
retrograde	-8710 Aug 11 j 16:37	21°♒34'34	
opposition	-8710 Oct 09 j 20:00	16°♒34'48	-1°26'42
min. Earth dist.	-8710 Oct 09 j 16:50	16°♒35'52	4.23387 AU
	-8710 Oct 21 j 18:05	15°℞♒	
direct	-8710 Dec 09 j 04:20	11°♒30'53	
	-8709 Jan 26 j 20:01	15°♒	
evening set	-8709 Apr 16 j 16:01	0°♓07'29	
	-8709 Apr 16 j 02:29	0°♓	
conjunction	-8709 Apr 30 j 05:41	3°♓08'43	-0°34'50
minimum elong	-8709 Apr 30 j 05:44	3°♓08'45	0°35'09
max. Earth dist.	-8709 Apr 30 j 01:02	3°♓06'07	6.27402 AU
morning rise	-8709 May 13 j 16:25	6°♓08'25	
retrograde	-8709 Sep 12 j 12:50	23°♓47'03	
opposition	-8709 Nov 10 j 23:43	18°♓51'07	-0°13'47
min. Earth dist.	-8709 Nov 11 j 09:02	18°♓48'02	4.30798 AU
direct	-8708 Jan 11 j 11:48	13°♓47'00	
asc. node	-8708 Jan 19 j 16:00	13°♓53'11	
	-8708 May 09 j 12:14	0°♈	
evening set	-8708 May 19 j 01:56	2°♈05'16	
max. Earth dist.	-8708 May 31 j 07:28	4°♈47'30	6.33331 AU
conjunction	-8708 Jun 01 j 07:32	5°♈00'50	0°17'42
minimum elong	-8708 Jun 01 j 07:30	5°♈00'49	0°17'41
morning rise	-8708 Jun 14 j 09:47	7°♈54'40	
retrograde	-8708 Oct 12 j 22:43	25°♈09'37	
opposition	-8708 Dec 11 j 21:51	20°♈16'38	1°01'22
min. Earth dist.	-8708 Dec 12 j 18:20	20°♈10'00	4.34855 AU
direct	-8707 Feb 12 j 06:19	15°♈13'54	
	-8707 Jun 04 j 19:33	0°♉	
evening set	-8707 Jun 20 j 04:35	3°♉20'33	
max. Earth dist.	-8707 Jul 01 j 15:42	5°♉52'59	6.35134 AU
conjunction	-8707 Jul 03 j 00:30	6°♉11'13	1°04'16
minimum elong	-8707 Jul 03 j 00:26	6°♉11'11	1°04'32
morning rise	-8707 Jul 15 j 17:05	9°♉00'20	
	-8707 Aug 12 j 16:09	15°♉	
retrograde	-8707 Nov 13 j 13:29	26°♉16'00	
opposition	-8706 Jan 13 j 04:30	21°♉24'24	1°58'22
min. Earth dist.	-8706 Jan 14 j 04:45	21°♉16'40	4.34422 AU
direct	-8706 Mar 16 j 16:49	16°♉24'17	
	-8706 Jul 01 j 02:16	0°♊	
evening set	-8706 Jul 21 j 13:04	4°♊27'57	
max. Earth dist.	-8706 Aug 01 j 15:03	6°♊57'05	6.32368 AU
conjunction	-8706 Aug 03 j 01:01	7°♊16'11	1°32'16
minimum elong	-8706 Aug 03 j 00:58	7°♊16'10	1°32'46
morning rise	-8706 Aug 15 j 11:10	10°♊03'36	
retrograde	-8706 Dec 16 j 05:34	27°♊42'35	
opposition	-8705 Feb 15 j 07:44	22°♊50'30	2°21'40

Attention, astronomical year style is used: The year -8705 in astronomical counting style is the year 8706 BCE in historical counting style.

min. Earth dist.	-8705 Feb 16 j 06:25	22°♊43'18	4.29592 AU	
direct	-8705 Apr 18 j 10:13	17°♊53'24		
	-8705 Jul 25 j 07:49	0°♋		
evening set	-8705 Aug 21 j 19:05	6°♋02'11		
max. Earth dist.	-8705 Sep 02 j 04:01	8°♋37'47	6.25806 AU	
conjunction	-8705 Sep 03 j 04:47	8°♋51'56	1°33'26	
minimum elong	-8705 Sep 03 j 04:49	8°♋51'57	1°33'59	
morning rise	-8705 Sep 15 j 14:21	11°♋41'47		
	-8704 Jan 16 j 06:32	0°♌		
retrograde	-8704 Jan 19 j 04:03	0°♌00'47		
	-8704 Jan 22 j 01:35	30°℞♋		
opposition	-8704 Mar 20 j 13:44	25°♋06'22	2°02'28	
min. Earth dist.	-8704 Mar 21 j 01:30	25°♋02'37	4.21740 AU	
direct	-8704 May 20 j 14:52	20°♋12'01		
	-8704 Aug 13 j 17:05	0°♌		
evening set	-8704 Sep 21 j 16:50	8°♌32'20		
conjunction	-8704 Oct 04 j 06:33	11°♌27'20	1°05'38	
minimum elong	-8704 Oct 04 j 06:38	11°♌27'23	1°06'06	
max. Earth dist.	-8704 Oct 03 j 23:16	11°♌23'06	6.17403 AU	
morning rise	-8704 Oct 16 j 21:59	14°♌23'23		
	-8704 Oct 19 j 13:32	15°♌		
	-8703 Jan 04 j 18:05	0°♍		
retrograde	-8703 Feb 22 j 14:51	3°♍29'11		
	-8703 Apr 13 j 06:12	30°℞♌		
opposition	-8703 Apr 24 j 21:14	28°♌31'07	1°02'35	
min. Earth dist.	-8703 Apr 24 j 19:28	28°♌31'41	4.13329 AU	
direct	-8703 Jun 23 j 17:15	23°♌38'12		
	-8703 Aug 28 j 06:50	0°♍		
evening set	-8703 Oct 24 j 23:18	12°♍14'23		
conjunction	-8703 Nov 06 j 21:24	15°♍16'23	0°15'23	
minimum elong	-8703 Nov 06 j 21:25	15°♍16'24	0°15'36	
behind sun begin	-8703 Nov 06 j 19:14	15°♍15'07		
behind sun end	-8703 Nov 06 j 23:37	15°♍17'41		
max. Earth dist.	-8703 Nov 07 j 10:25	15°♍24'02	6.09834 AU	
morning rise	-8703 Nov 19 j 22:43	18°♍20'11		
	-8702 Jan 13 j 02:41	0°♎		
desc. node	-8702 Feb 22 j 10:29	6°♎03'32		
retrograde	-8702 Mar 30 j 22:46	8°♎05'09		
opposition	-8702 May 30 j 18:42	3°♎03'12	-0°21'08	
min. Earth dist.	-8702 May 30 j 02:23	3°♎08'36	4.07233 AU	
	-8702 Jun 24 j 17:59	30°℞♍		
direct	-8702 Jul 28 j 10:54	28°♍09'48		
	-8702 Aug 30 j 22:11	0°♎		
evening set	-8702 Nov 28 j 23:45	17°♎02'58		
conjunction	-8702 Dec 12 j 06:40	20°♎10'37	-0°41'21	
minimum elong	-8702 Dec 12 j 06:36	20°♎10'34	0°41'29	
max. Earth dist.	-8702 Dec 13 j 13:03	20°♎28'31	6.05734 AU	
morning rise	-8702 Dec 25 j 17:05	23°♎20'06		
	-8701 Jan 24 j 02:35	0°♏		
retrograde	-8701 May 06 j 10:22	13°♏21'53		
opposition	-8701 Jul 05 j 14:02	8°♏17'10	-1°38'33	
min. Earth dist.	-8701 Jul 04 j 14:40	8°♏25'05	4.05611 AU	
direct	-8701 Sep 01 j 17:42	3°♏21'25		
	-8701 Dec 02 j 07:45	15°♏		
evening set	-8700 Jan 04 j 10:59	22°♏26'28		
conjunction	-8700 Jan 18 j 00:24	25°♏36'18	-1°23'22	
minimum elong	-8700 Jan 18 j 00:19	25°♏36'15	1°23'47	
max. Earth dist.	-8700 Jan 19 j 14:48	25°♏58'45	6.06610 AU	
morning rise	-8700 Jan 31 j 16:16	28°♏47'23		
	-8700 Feb 05 j 22:02	0°♐		
retrograde	-8700 Jun 10 j 02:26	18°♐34'31		
opposition	-8700 Aug 08 j 14:57	13°♐29'32	-2°19'24	
min. Earth dist.	-8700 Aug 07 j 16:20	13°♐37'16	4.09034 AU	
direct	-8700 Oct 05 j 23:11	8°♐30'24		
evening set	-8699 Feb 09 j 09:37	27°♐35'42		
	-8699 Feb 19 j 21:05	0°♑		
conjunction	-8699 Feb 23 j 02:20	0°♑44'26	-1°34'44	
minimum elong	-8699 Feb 23 j 02:21	0°♑44'26	1°35'16	
max. Earth dist.	-8699 Feb 24 j 07:56	1°♑01'27	6.12155 AU	
morning rise	-8699 Mar 08 j 20:02	3°♑53'27		
retrograde	-8699 Jul 14 j 08:24	22°♑59'26		
opposition	-8699 Sep 11 j 12:29	17°♑56'35	-2°09'53	
min. Earth dist.	-8699 Sep 10 j 22:37	18°♑01'19	4.16148 AU	
direct	-8699 Nov 09 j 19:06	12°♑54'16		
	-8698 Mar 09 j 14:33	0°♒		
evening set	-8698 Mar 17 j 14:54	1°♒47'20		
conjunction	-8698 Mar 31 j 07:57	4°♒52'46	-1°12'51	
minimum elong	-8698 Mar 31 j 08:03	4°♒52'49	1°13'20	
max. Earth dist.	-8698 Mar 31 j 20:50	5°♒00'03	6.20296 AU	
morning rise	-8698 Apr 13 j 23:34	7°♒57'24		
	-8698 May 16 j 12:59	15°♒		
retrograde	-8698 Aug 16 j 04:41	26°♒13'02		
opposition	-8698 Oct 14 j 08:03	21°♒13'52	-1°17'34	
min. Earth dist.	-8698 Oct 14 j 06:47	21°♒14'18	4.24467 AU	
direct	-8698 Dec 13 j 19:43	16°♒09'52		
	-8697 Mar 30 j 13:13	0°♓		
evening set	-8697 Apr 21 j 09:37	4°♓44'09		
conjunction	-8697 May 04 j 22:20	7°♓44'42	-0°27'45	
minimum elong	-8697 May 04 j 22:22	7°♓44'44	0°28'02	
max. Earth dist.	-8697 May 04 j 12:58	7°♓39'30	6.28232 AU	
morning rise	-8697 May 18 j 08:17	10°♓43'44		
retrograde	-8697 Sep 16 j 23:11	28°♓18'37		
opposition	-8697 Nov 15 j 10:51	23°♓23'10	-0°02'58	
min. Earth dist.	-8697 Nov 15 j 22:33	23°♓19'18	4.31323 AU	
asc. node	-8697 Nov 30 j 09:30	21°♓28'00		
direct	-8696 Jan 16 j 02:20	18°♓19'09		
	-8696 Apr 22 j 12:32	0°♈		
evening set	-8696 May 23 j 15:30	6°♈36'28		
conjunction	-8696 Jun 05 j 20:00	9°♈31'28	0°24'52	
minimum elong	-8696 Jun 05 j 19:57	9°♈31'27	0°24'54	
max. Earth dist.	-8696 Jun 04 j 19:11	9°♈17'43	6.33522 AU	
morning rise	-8696 Jun 18 j 20:48	12°♈24'40		
retrograde	-8696 Oct 17 j 08:51	29°♈39'29		
opposition	-8696 Dec 16 j 10:09	24°♈46'51	1°10'52	
min. Earth dist.	-8696 Dec 17 j 06:58	24°♈40'08	4.34724 AU	
direct	-8695 Feb 16 j 18:35	19°♈44'30		
	-8695 May 18 j 07:45	0°♉		
evening set	-8695 Jun 24 j 16:08	7°♉51'33		
max. Earth dist.	-8695 Jul 06 j 00:01	10°♉22'33	6.34678 AU	
conjunction	-8695 Jul 07 j 10:39	10°♉41'51	1°09'33	
minimum elong	-8695 Jul 07 j 10:34	10°♉41'48	1°09'51	
morning rise	-8695 Jul 20 j 02:18	13°♉30'42		
	-8695 Jul 26 j 20:21	15°♉		
	-8695 Oct 26 j 04:04	0°♊		
retrograde	-8695 Nov 18 j 05:07	0°♊49'32		
	-8695 Dec 11 j 05:57	30°℞♉		
opposition	-8694 Jan 17 j 20:23	25°♉58'00	2°03'58	
min. Earth dist.	-8694 Jan 18 j 21:20	25°♉50'03	4.33697 AU	
direct	-8694 Mar 21 j 08:30	20°♉58'19		
	-8694 Jun 12 j 22:10	0°♊		
evening set	-8694 Jul 25 j 23:57	9°♊03'14		
max. Earth dist.	-8694 Aug 06 j 03:24	11°♊33'32	6.31428 AU	
conjunction	-8694 Aug 07 j 11:24	11°♊51'35	1°34'09	

Attention, astronomical year style is used: The year -8694 in astronomical counting style is the year 8695 BCE in historical counting style.

minimum elong	-8694 Aug 07 j 11:22	11°♊51'34	1°34'39
morning rise	-8694 Aug 19 j 21:02	14°♊39'10	
	-8694 Nov 10 j 23:02	0°♋	
retrograde	-8694 Dec 20 j 23:11	2°♋23'37	
	-8693 Jan 30 j 14:34	30°℞♊	
opposition	-8693 Feb 20 j 03:48	27°♊31'17	2°21'33
min. Earth dist.	-8693 Feb 21 j 00:06	27°♊24'51	4.28519 AU
direct	-8693 Apr 23 j 02:09	22°♊34'43	
	-8693 Jul 05 j 23:14	0°♋	
evening set	-8693 Aug 26 j 07:41	10°♋45'00	
conjunction	-8693 Sep 07 j 17:29	13°♋35'16	1°31'08
minimum elong	-8693 Sep 07 j 17:31	13°♋35'17	1°31'41
max. Earth dist.	-8693 Sep 06 j 19:15	13°♋22'31	6.24691 AU
morning rise	-8693 Sep 20 j 03:31	16°♋25'47	
	-8693 Nov 26 j 20:02	0°♌	
retrograde	-8692 Jan 24 j 04:30	4°♌51'03	
opposition	-8692 Mar 25 j 13:43	29°♋56'11	1°56'06
	-8692 Mar 25 j 01:45	30°℞♋	
min. Earth dist.	-8692 Mar 26 j 00:07	29°♋52'51	4.20639 AU
direct	-8692 May 25 j 12:14	25°♋02'07	
	-8692 Jul 22 j 16:42	0°♌	
evening set	-8692 Sep 26 j 08:43	13°♌23'54	
	-8692 Oct 03 j 06:25	15°♌	
conjunction	-8692 Oct 08 j 23:26	16°♌19'45	0°59'32
minimum elong	-8692 Oct 08 j 23:30	16°♌19'48	0°59'58
max. Earth dist.	-8692 Oct 08 j 19:13	16°♌17'18	6.16424 AU
morning rise	-8692 Oct 21 j 16:06	19°♌16'47	
	-8692 Dec 10 j 12:40	0°♍	
retrograde	-8691 Feb 27 j 16:44	8°♍27'54	
opposition	-8691 Apr 29 j 23:07	3°♍29'17	0°51'30
min. Earth dist.	-8691 Apr 29 j 18:20	3°♍30'50	4.12540 AU
	-8691 May 29 j 23:35	30°℞♌	
direct	-8691 Jun 28 j 14:17	28°♌36'26	
	-8691 Jul 27 j 23:51	0°♍	
evening set	-8691 Oct 29 j 19:53	17°♍14'01	
conjunction	-8691 Nov 11 j 19:11	20°♍16'48	0°07'18
minimum elong	-8691 Nov 11 j 19:12	20°♍16'48	0°07'28
behind sun begin	-8691 Nov 11 j 11:47	20°♍12'28	
behind sun end	-8691 Nov 12 j 02:37	20°♍21'09	
max. Earth dist.	-8691 Nov 12 j 10:56	20°♍26'03	6.09290 AU
morning rise	-8691 Nov 24 j 21:50	23°♍21'25	
	-8691 Dec 24 j 06:29	0°♎	
desc. node	-8690 Jan 01 j 11:08	1°♎44'18	
retrograde	-8690 Apr 05 j 02:45	13°♎09'20	
opposition	-8690 Jun 04 j 20:30	8°♎06'51	-0°33'13
min. Earth dist.	-8690 Jun 04 j 03:13	8°♎12'36	4.06975 AU
direct	-8690 Aug 02 j 10:51	3°♎13'12	
evening set	-8690 Dec 04 j 01:00	22°♎07'31	
conjunction	-8690 Dec 17 j 09:00	25°♎15'34	-0°48'36
minimum elong	-8690 Dec 17 j 08:55	25°♎15'31	0°48'47
max. Earth dist.	-8690 Dec 18 j 17:48	25°♎34'53	6.05779 AU
morning rise	-8690 Dec 30 j 20:18	28°♎25'23	
	-8689 Jan 06 j 15:08	0°♏	
	-8689 Mar 24 j 18:26	15°♏	
retrograde	-8689 May 11 j 11:45	18°♏26'09	
	-8689 Jun 28 j 04:21	15°℞♏	
opposition	-8689 Jul 10 j 13:11	13°♏21'19	-1°47'00
min. Earth dist.	-8689 Jul 09 j 13:30	13°♏29'20	4.05993 AU
direct	-8689 Sep 06 j 16:00	8°♏25'09	
	-8689 Nov 11 j 16:24	15°♏	
evening set	-8688 Jan 09 j 15:02	27°♏30'25	
	-8688 Jan 20 j 08:03	0°♐	

conjunction	-8688 Jan 23 j 04:52	0°♐40'09	-1°27'00
minimum elong	-8688 Jan 23 j 04:48	0°♐40'07	1°27'28
max. Earth dist.	-8688 Jan 24 j 17:10	1°♐01'19	6.07262 AU
morning rise	-8688 Feb 05 j 21:17	3°♐51'05	
retrograde	-8688 Jun 14 j 22:46	23°♐33'25	
opposition	-8688 Aug 13 j 10:08	18°♐28'34	-2°21'06
min. Earth dist.	-8688 Aug 12 j 12:28	18°♐35'59	4.09904 AU
direct	-8688 Oct 10 j 21:12	13°♐28'54	
	-8687 Feb 03 j 05:45	0°♑	
evening set	-8687 Feb 14 j 12:21	2°♑33'05	
conjunction	-8687 Feb 28 j 05:29	5°♑41'30	-1°33'32
minimum elong	-8687 Feb 28 j 05:31	5°♑41'31	1°34'06
max. Earth dist.	-8687 Mar 01 j 09:57	5°♑57'50	6.13180 AU
morning rise	-8687 Mar 13 j 22:58	8°♑50'00	
retrograde	-8687 Jul 19 j 01:25	27°♑49'16	
opposition	-8687 Sep 16 j 04:00	22°♑46'53	-2°04'45
min. Earth dist.	-8687 Sep 15 j 16:10	22°♑50'55	4.17217 AU
direct	-8687 Nov 14 j 14:10	17°♑44'15	
	-8686 Feb 20 j 06:03	0°♒	
evening set	-8686 Mar 22 j 13:54	6°♒35'13	
conjunction	-8686 Apr 05 j 06:33	9°♒40'07	-1°07'35
minimum elong	-8686 Apr 05 j 06:38	9°♒40'10	1°08'03
max. Earth dist.	-8686 Apr 05 j 15:08	9°♒44'57	6.21324 AU
morning rise	-8686 Apr 18 j 21:46	12°♒44'07	
	-8686 Apr 29 j 02:28	15°♒	
	-8686 Jul 28 j 06:16	0°♓	
retrograde	-8686 Aug 20 j 16:19	0°♓53'47	
	-8686 Sep 12 j 23:31	30°℞♒	
opposition	-8686 Oct 18 j 20:56	25°♒55'06	-1°07'54
min. Earth dist.	-8686 Oct 18 j 21:31	25°♒54'54	4.25364 AU
direct	-8686 Dec 18 j 12:24	20°♒50'55	
	-8685 Mar 12 j 02:30	0°♓	
evening set	-8685 Apr 26 j 04:03	9°♓23'23	
conjunction	-8685 May 09 j 15:56	12°♓23'17	-0°20'25
minimum elong	-8685 May 09 j 15:59	12°♓23'19	0°20'40
max. Earth dist.	-8685 May 09 j 04:41	12°♓17'02	6.28952 AU
morning rise	-8685 May 23 j 00:42	15°♓21'34	
	-8685 Aug 09 j 04:58	0°♈	
retrograde	-8685 Sep 21 j 10:07	2°♈52'58	
asc. node	-8685 Oct 10 j 08:37	2°♈17'49	
	-8685 Nov 04 j 00:01	30°℞♓	
opposition	-8685 Nov 19 j 23:02	27°♓58'01	0°08'01
min. Earth dist.	-8685 Nov 20 j 12:19	27°♓53'39	4.31812 AU
direct	-8684 Jan 20 j 17:15	22°♓54'10	
	-8684 Apr 02 j 21:03	0°♈	
evening set	-8684 May 28 j 06:04	11°♈10'23	
max. Earth dist.	-8684 Jun 09 j 05:26	13°♈49'22	6.33732 AU
conjunction	-8684 Jun 10 j 09:08	14°♈04'44	0°32'00
minimum elong	-8684 Jun 10 j 09:05	14°♈04'43	0°32'04
morning rise	-8684 Jun 23 j 08:46	16°♈57'20	
	-8684 Aug 29 j 17:04	0°♉	
retrograde	-8684 Oct 21 j 21:08	4°♉11'56	
	-8684 Dec 15 j 18:01	30°℞♈	
opposition	-8684 Dec 20 j 23:56	29°♈19'31	1°20'05
min. Earth dist.	-8684 Dec 21 j 21:45	29°♈12'29	4.34680 AU
direct	-8683 Feb 21 j 09:58	24°♈17'29	
	-8683 Apr 27 j 11:11	0°♉	
evening set	-8683 Jun 29 j 03:56	12°♉24'15	
	-8683 Jul 10 j 20:02	15°♉	
conjunction	-8683 Jul 11 j 21:21	15°♉14'08	1°14'30
minimum elong	-8683 Jul 11 j 21:17	15°♉14'06	1°14'51
max. Earth dist.	-8683 Jul 10 j 12:16	14°♉55'40	6.34387 AU

Attention, astronomical year style is used: The year -8683 in astronomical counting style is the year 8684 BCE in historical counting style.

morning rise	-8683 Jul 24 j 11:43	18°♉02'36	
	-8683 Sep 22 j 10:33	0°♊	
retrograde	-8683 Nov 22 j 18:32	5°♊23'58	
opposition	-8682 Jan 22 j 12:49	0°♊32'27	2°08'52
min. Earth dist.	-8682 Jan 23 j 12:48	0°♊24'49	4.33210 AU
	-8682 Jan 26 j 19:02	30°℞♉	
direct	-8682 Mar 25 j 23:38	25°♉33'16	
	-8682 May 21 j 11:31	0°♊	
evening set	-8682 Jul 30 j 10:59	13°♊38'18	
conjunction	-8682 Aug 11 j 21:38	16°♊26'35	1°35'29
minimum elong	-8682 Aug 11 j 21:37	16°♊26'34	1°35'59
max. Earth dist.	-8682 Aug 10 j 14:03	16°♊08'44	6.30774 AU
morning rise	-8682 Aug 24 j 07:01	19°♊14'17	
	-8682 Oct 15 j 07:43	0°♋	
retrograde	-8682 Dec 25 j 18:07	7°♋03'06	
opposition	-8681 Feb 24 j 23:28	2°♋10'29	2°20'32
min. Earth dist.	-8681 Feb 25 j 18:57	2°♋04'18	4.27740 AU
	-8681 Mar 14 j 17:52	30°℞♊	
direct	-8681 Apr 27 j 20:19	27°♊14'16	
	-8681 Jun 10 j 03:52	0°♋	
evening set	-8681 Aug 30 j 19:13	15°♋24'56	
max. Earth dist.	-8681 Sep 11 j 10:30	18°♋04'49	6.23861 AU
conjunction	-8681 Sep 12 j 05:27	18°♋15'42	1°28'17
minimum elong	-8681 Sep 12 j 05:30	18°♋15'44	1°28'50
morning rise	-8681 Sep 24 j 15:57	21°♋06'48	
	-8681 Nov 04 j 19:28	0°♌	
retrograde	-8680 Jan 29 j 01:28	9°♌37'10	
opposition	-8680 Mar 30 j 12:00	4°♌41'50	1°49'02
min. Earth dist.	-8680 Mar 30 j 19:55	4°♌39'18	4.19806 AU
	-8680 May 19 j 01:10	30°℞♋	
direct	-8680 May 30 j 06:10	29°♋48'04	
	-8680 Jun 10 j 10:43	0°♌	
	-8680 Sep 17 j 01:45	15°♌	
evening set	-8680 Sep 30 j 23:02	18°♌10'30	
conjunction	-8680 Oct 13 j 14:38	21°♌07'06	0°53'08
minimum elong	-8680 Oct 13 j 14:42	21°♌07'09	0°53'31
max. Earth dist.	-8680 Oct 13 j 12:38	21°♌05'56	6.15659 AU
morning rise	-8680 Oct 26 j 08:34	24°♌05'02	
	-8680 Nov 21 j 14:53	0°♍	
retrograde	-8679 Mar 04 j 17:44	13°♍20'50	
opposition	-8679 May 04 j 22:46	8°♍21'37	0°40'14
min. Earth dist.	-8679 May 04 j 16:29	8°♍23'40	4.11875 AU
direct	-8679 Jul 03 j 10:46	3°♍28'44	
evening set	-8679 Nov 03 j 14:39	22°♍07'36	
desc. node	-8679 Nov 11 j 03:55	23°♍53'54	
conjunction	-8679 Nov 16 j 15:17	25°♍11'09	-0°00'48
minimum elong	-8679 Nov 16 j 15:17	25°♍11'09	0°00'41
behind sun begin	-8679 Nov 16 j 07:07	25°♍06'23	
behind sun end	-8679 Nov 16 j 23:26	25°♍15'56	
max. Earth dist.	-8679 Nov 17 j 10:10	25°♍22'15	6.08798 AU
morning rise	-8679 Nov 29 j 19:09	28°♍16'33	
	-8679 Dec 07 j 05:21	0°♎	
retrograde	-8678 Apr 10 j 03:45	18°♎07'00	
opposition	-8678 Jun 09 j 19:29	13°♎04'09	-0°44'49
min. Earth dist.	-8678 Jun 09 j 01:20	13°♎10'12	4.06712 AU
direct	-8678 Aug 07 j 07:05	8°♎10'17	
evening set	-8678 Dec 09 j 00:45	27°♎06'13	
	-8678 Dec 21 j 08:41	0°♏	
conjunction	-8678 Dec 22 j 09:34	0°♏14'38	-0°55'23
minimum elong	-8678 Dec 22 j 09:28	0°♏14'35	0°55'35
max. Earth dist.	-8678 Dec 23 j 17:48	0°♏33'36	6.05742 AU
morning rise	-8677 Jan 04 j 21:54	3°♏24'52	

	-8677 Feb 27 j 11:31	15°♏	
retrograde	-8677 May 16 j 10:14	23°♏25'01	
min. Earth dist.	-8677 Jul 14 j 10:13	18°♏28'10	4.06199 AU
opposition	-8677 Jul 15 j 10:06	18°♏20'03	-1°54'31
	-8677 Aug 11 j 12:04	15°℞♏	
direct	-8677 Sep 11 j 13:08	13°♏23'25	
	-8677 Oct 12 j 16:05	15°♏	
	-8676 Jan 03 j 20:40	0°♐	
evening set	-8676 Jan 14 j 17:22	2°♐29'48	
conjunction	-8676 Jan 28 j 08:01	5°♐39'39	-1°29'57
minimum elong	-8676 Jan 28 j 07:58	5°♐39'37	1°30'25
max. Earth dist.	-8676 Jan 29 j 20:46	6°♐01'03	6.07695 AU
morning rise	-8676 Feb 11 j 00:40	8°♐50'29	
retrograde	-8676 Jun 19 j 20:02	28°♐29'00	
min. Earth dist.	-8676 Aug 17 j 08:23	23°♐31'16	4.10525 AU
opposition	-8676 Aug 18 j 04:20	23°♐24'26	-2°21'47
direct	-8676 Oct 15 j 17:40	18°♐24'22	
	-8675 Jan 16 j 14:14	0°♑	
evening set	-8675 Feb 19 j 14:29	7°♑28'25	
conjunction	-8675 Mar 05 j 07:46	10°♑36'37	-1°31'40
minimum elong	-8675 Mar 05 j 07:48	10°♑36'38	1°32'13
max. Earth dist.	-8675 Mar 06 j 09:04	10°♑51'06	6.13938 AU
morning rise	-8675 Mar 19 j 01:21	13°♑44'48	
	-8675 Jun 12 j 17:41	0°♒	
retrograde	-8675 Jul 23 j 16:21	2°♒38'23	
	-8675 Sep 02 j 11:01	30°℞♑	
opposition	-8675 Sep 20 j 19:12	27°♑36'29	-1°58'47
min. Earth dist.	-8675 Sep 20 j 08:21	27°♑40'11	4.18046 AU
direct	-8675 Nov 19 j 07:59	22°♑33'34	
	-8674 Jan 31 j 10:19	0°♒	
evening set	-8674 Mar 27 j 12:52	11°♒23'22	
conjunction	-8674 Apr 10 j 05:14	14°♒27'49	-1°01'51
minimum elong	-8674 Apr 10 j 05:19	14°♒27'52	1°02'17
max. Earth dist.	-8674 Apr 10 j 11:23	14°♒31'17	6.22195 AU
	-8674 Apr 12 j 14:23	15°♒	
morning rise	-8674 Apr 23 j 19:48	17°♒31'13	
	-8674 Jun 24 j 17:29	0°♓	
retrograde	-8674 Aug 25 j 06:07	5°♓35'34	
opposition	-8674 Oct 23 j 10:30	0°♓37'28	-0°57'45
min. Earth dist.	-8674 Oct 23 j 13:13	0°♓36'33	4.26186 AU
	-8674 Oct 28 j 02:42	30°℞♒	
direct	-8674 Dec 23 j 06:08	25°♒33'17	
	-8673 Feb 17 j 03:17	0°♓	
evening set	-8673 Apr 30 j 22:29	14°♓03'53	
conjunction	-8673 May 14 j 09:24	17°♓03'07	-0°12'56
minimum elong	-8673 May 14 j 09:25	17°♓03'08	0°13'07
behind sun begin	-8673 May 14 j 04:38	17°♓00'29	
behind sun end	-8673 May 14 j 14:12	17°♓05'47	
max. Earth dist.	-8673 May 13 j 19:42	16°♓55'31	6.29669 AU
morning rise	-8673 May 27 j 17:05	20°♓00'40	
	-8673 Jul 15 j 04:43	0°♈	
asc. node	-8673 Aug 19 j 14:33	5°♈18'20	
retrograde	-8673 Sep 25 j 20:39	7°♈28'47	
opposition	-8673 Nov 24 j 12:04	2°♈34'12	0°19'00
min. Earth dist.	-8673 Nov 25 j 02:04	2°♈29'37	4.32379 AU
	-8673 Dec 15 j 02:47	30°℞♓	
direct	-8672 Jan 25 j 08:50	27°♓30'31	
	-8672 Mar 06 j 22:36	0°♈	
evening set	-8672 Jun 01 j 20:15	15°♈45'01	
conjunction	-8672 Jun 14 j 21:56	18°♈38'37	0°38'57
minimum elong	-8672 Jun 14 j 21:52	18°♈38'35	0°39'04
max. Earth dist.	-8672 Jun 13 j 18:02	18°♈23'09	6.34105 AU

Attention, astronomical year style is used: The year -8672 in astronomical counting style is the year 8673 BCE in historical counting style.

morning rise	-8672 Jun 27 j 20:05	21°♈30'28	
	-8672 Aug 07 j 11:31	0°♉	
retrograde	-8672 Oct 26 j 08:25	8°♉44'24	
opposition	-8672 Dec 25 j 13:43	3°♉52'13	1°28'48
min. Earth dist.	-8672 Dec 26 j 12:14	3°♉44'59	4.34825 AU
	-8671 Jan 29 j 02:53	30°℞♈	
direct	-8671 Feb 26 j 01:34	28°♈50'33	
	-8671 Mar 26 j 02:57	0°♉	
	-8671 Jun 24 j 19:41	15°♉	
evening set	-8671 Jul 03 j 14:58	16°♉56'08	
max. Earth dist.	-8671 Jul 14 j 20:41	19°♉26'18	6.34249 AU
conjunction	-8671 Jul 16 j 07:04	19°♉45'30	1°18'59
minimum elong	-8671 Jul 16 j 06:59	19°♉45'28	1°19'22
morning rise	-8671 Jul 28 j 20:31	22°♉33'35	
	-8671 Sep 01 j 20:07	0°♊	
retrograde	-8671 Nov 27 j 08:19	9°♊57'09	
opposition	-8670 Jan 27 j 04:44	5°♊05'31	2°12'59
min. Earth dist.	-8670 Jan 28 j 04:29	4°♊57'58	4.32796 AU
direct	-8670 Mar 30 j 14:50	0°♊06'41	
evening set	-8670 Aug 03 j 20:28	18°♊11'33	
max. Earth dist.	-8670 Aug 15 j 01:35	20°♊43'21	6.30097 AU
conjunction	-8670 Aug 16 j 06:47	20°♊59'53	1°36'14
minimum elong	-8670 Aug 16 j 06:46	20°♊59'53	1°36'46
morning rise	-8670 Aug 28 j 15:44	23°♊47'43	
	-8670 Sep 26 j 02:43	0°♋	
retrograde	-8670 Dec 30 j 11:12	11°♋41'13	
opposition	-8669 Mar 01 j 18:28	6°♋48'19	2°18'42
min. Earth dist.	-8669 Mar 02 j 12:45	6°♋42'31	4.26831 AU
direct	-8669 May 02 j 12:17	1°♋52'29	
evening set	-8669 Sep 04 j 06:09	20°♋04'05	
conjunction	-8669 Sep 16 j 16:38	22°♋55'25	1°24'55
minimum elong	-8669 Sep 16 j 16:41	22°♋55'27	1°25'27
max. Earth dist.	-8669 Sep 15 j 22:19	22°♋44'53	6.22786 AU
morning rise	-8669 Sep 29 j 03:57	25°♋47'18	
	-8669 Oct 17 j 21:43	0°♌	
retrograde	-8668 Feb 03 j 00:08	14°♌23'57	
opposition	-8668 Apr 04 j 10:14	9°♌28'03	1°41'17
min. Earth dist.	-8668 Apr 04 j 16:28	9°♌26'03	4.18618 AU
direct	-8668 Jun 04 j 00:20	4°♌34'25	
	-8668 Aug 30 j 13:10	15°♌	
evening set	-8668 Oct 05 j 13:59	22°♌59'02	
conjunction	-8668 Oct 18 j 06:52	25°♌56'40	0°46'21
minimum elong	-8668 Oct 18 j 06:56	25°♌56'42	0°46'43
max. Earth dist.	-8668 Oct 18 j 08:22	25°♌57'32	6.14484 AU
morning rise	-8668 Oct 31 j 02:01	28°♌55'41	
	-8668 Nov 04 j 17:19	0°♍	
retrograde	-8667 Mar 09 j 20:20	18°♍17'34	
opposition	-8667 May 09 j 23:29	13°♍17'49	0°28'35
min. Earth dist.	-8667 May 09 j 15:47	13°♍20'20	4.10805 AU
direct	-8667 Jul 08 j 07:19	8°♍24'54	
desc. node	-8667 Sep 20 j 08:44	16°♍24'29	
evening set	-8667 Nov 08 j 11:56	27°♍06'45	
	-8667 Nov 20 j 18:38	0°♎	
conjunction	-8667 Nov 21 j 13:41	0°♎11'13	-0°08'58
minimum elong	-8667 Nov 21 j 13:40	0°♎11'12	0°08'55
behind sun begin	-8667 Nov 21 j 06:39	0°♎07'05	
behind sun end	-8667 Nov 21 j 20:41	0°♎15'19	
max. Earth dist.	-8667 Nov 22 j 09:25	0°♎22'50	6.07915 AU
morning rise	-8667 Dec 04 j 19:04	3°♎17'36	
retrograde	-8666 Apr 15 j 06:48	23°♎12'01	
opposition	-8666 Jun 14 j 21:01	18°♎08'41	-0°56'22
min. Earth dist.	-8666 Jun 14 j 01:12	18°♎15'19	4.06107 AU
direct	-8666 Aug 12 j 06:00	13°♎14'29	
	-8666 Dec 04 j 14:27	0°♏	
evening set	-8666 Dec 14 j 04:01	2°♏13'19	
conjunction	-8666 Dec 27 j 14:00	5°♏22'19	-1°01'55
minimum elong	-8666 Dec 27 j 13:55	5°♏22'16	1°02'11
max. Earth dist.	-8666 Dec 29 j 00:58	5°♏42'52	6.05465 AU
morning rise	-8665 Jan 10 j 03:04	8°♏32'58	
	-8665 Feb 07 j 14:16	15°♏	
retrograde	-8665 May 21 j 14:38	28°♏32'59	
min. Earth dist.	-8665 Jul 19 j 11:15	23°♏35'51	4.06303 AU
opposition	-8665 Jul 20 j 10:29	23°♏27'57	-2°01'25
direct	-8665 Sep 16 j 14:04	18°♏30'53	
	-8665 Dec 16 j 17:44	0°♐	
evening set	-8664 Jan 20 j 00:14	7°♐38'39	
conjunction	-8664 Feb 02 j 15:21	10°♐48'30	-1°32'19
minimum elong	-8664 Feb 02 j 15:19	10°♐48'29	1°32'48
max. Earth dist.	-8664 Feb 04 j 03:05	11°♐09'16	6.08161 AU
morning rise	-8664 Feb 16 j 08:31	13°♐59'16	
	-8664 May 07 j 15:58	0°♑	
retrograde	-8664 Jun 24 j 17:45	3°♑33'07	
	-8664 Aug 11 j 19:03	30°℞♐	
min. Earth dist.	-8664 Aug 22 j 05:26	28°♐35'43	4.11348 AU
opposition	-8664 Aug 23 j 01:35	28°♐28'49	-2°21'28
direct	-8664 Oct 20 j 16:25	23°♐28'21	
	-8664 Dec 26 j 11:10	0°♑	
evening set	-8663 Feb 24 j 20:01	12°♑31'15	
conjunction	-8663 Mar 10 j 13:25	15°♑39'01	-1°29'07
minimum elong	-8663 Mar 10 j 13:28	15°♑39'04	1°29'40
max. Earth dist.	-8663 Mar 11 j 13:09	15°♑52'36	6.15088 AU
morning rise	-8663 Mar 24 j 06:46	18°♑46'36	
	-8663 May 16 j 18:31	0°♒	
retrograde	-8663 Jul 28 j 10:52	7°♒32'43	
opposition	-8663 Sep 25 j 12:57	2°♒31'19	-1°51'53
min. Earth dist.	-8663 Sep 25 j 04:08	2°♒34'19	4.19417 AU
	-8663 Oct 15 j 00:55	30°℞♑	
direct	-8663 Nov 24 j 07:05	27°♑28'10	
	-8662 Jan 03 j 23:23	0°♒	
	-8662 Mar 26 j 23:17	15°♒	
evening set	-8662 Apr 01 j 13:01	16°♒14'17	
conjunction	-8662 Apr 15 j 04:54	19°♒17'54	-0°55'40
minimum elong	-8662 Apr 15 j 04:59	19°♒17'57	0°56'06
max. Earth dist.	-8662 Apr 15 j 09:34	19°♒20'31	6.23708 AU
morning rise	-8662 Apr 28 j 18:37	22°♒20'20	
	-8662 Jun 03 j 15:01	0°♓	
retrograde	-8662 Aug 29 j 17:03	10°♓17'00	
opposition	-8662 Oct 28 j 00:18	5°♓19'24	-0°47'17
min. Earth dist.	-8662 Oct 28 j 03:31	5°♓18'19	4.27717 AU
direct	-8662 Dec 27 j 23:43	0°♓15'13	
evening set	-8661 May 05 j 15:55	18°♓41'16	
max. Earth dist.	-8661 May 18 j 09:24	21°♓30'27	6.31112 AU
conjunction	-8661 May 19 j 01:30	21°♓39'23	-0°05'30
minimum elong	-8661 May 19 j 01:30	21°♓39'23	0°05'39
behind sun begin	-8661 May 18 j 17:39	21°♓35'02	
behind sun end	-8661 May 19 j 09:20	21°♓43'43	
morning rise	-8661 Jun 01 j 07:51	24°♓35'47	
	-8661 Jun 26 j 10:57	0°♈	
asc. node	-8661 Jun 29 j 05:27	0°♈34'14	
retrograde	-8661 Sep 30 j 06:02	11°♈58'21	
opposition	-8661 Nov 28 j 23:09	7°♈04'14	0°29'34
min. Earth dist.	-8661 Nov 29 j 15:21	6°♈58'56	4.33617 AU
direct	-8660 Jan 30 j 00:46	2°♈00'44	
evening set	-8660 Jun 06 j 07:05	20°♈11'16	

Attention, astronomical year style is used: The year -8660 in astronomical counting style is the year 8661 BCE in historical counting style.

max. Earth dist.	-8660 Jun 18 j 01:39	22°♈47'25	6.35016 AU
conjunction	-8660 Jun 19 j 07:20	23°♈03'53	0°45'26
minimum elong	-8660 Jun 19 j 07:16	23°♈03'50	0°45'36
morning rise	-8660 Jul 02 j 04:04	25°♈54'46	
	-8660 Jul 21 j 01:00	0°♉	
retrograde	-8660 Oct 30 j 15:07	13°♉06'41	
opposition	-8660 Dec 29 j 23:52	8°♉14'40	1°36'37
min. Earth dist.	-8660 Dec 30 j 22:50	8°♉07'18	4.35366 AU
direct	-8659 Mar 02 j 12:32	3°♉13'18	
	-8659 Jun 08 j 13:35	15°♉	
evening set	-8659 Jul 07 j 21:20	21°♉16'38	
max. Earth dist.	-8659 Jul 19 j 02:04	23°♉46'18	6.34359 AU
conjunction	-8659 Jul 20 j 12:18	24°♉05'26	1°22'49
minimum elong	-8659 Jul 20 j 12:14	24°♉05'24	1°23'13
morning rise	-8659 Aug 02 j 00:40	26°♉53'03	
	-8659 Aug 16 j 05:19	0°♊	
retrograde	-8659 Dec 01 j 17:56	14°♊18'24	
opposition	-8658 Jan 31 j 16:09	9°♊26'48	2°16'08
min. Earth dist.	-8658 Feb 01 j 16:47	9°♊18'59	4.32463 AU
direct	-8658 Apr 04 j 01:53	4°♊28'22	
evening set	-8658 Aug 08 j 01:36	22°♊33'10	
max. Earth dist.	-8658 Aug 19 j 04:56	25°♊04'19	6.29328 AU
conjunction	-8658 Aug 20 j 11:27	25°♊21'38	1°36'24
minimum elong	-8658 Aug 20 j 11:27	25°♊21'37	1°36'57
morning rise	-8658 Sep 01 j 20:27	28°♊09'46	
	-8658 Sep 10 j 01:10	0°♋	
retrograde	-8657 Jan 04 j 01:08	16°♋08'35	
opposition	-8657 Mar 06 j 08:55	11°♋15'24	2°16'07
min. Earth dist.	-8657 Mar 07 j 02:22	11°♋09'52	4.25673 AU
direct	-8657 May 06 j 22:59	6°♋19'52	
evening set	-8657 Sep 08 j 13:26	24°♋33'49	
max. Earth dist.	-8657 Sep 20 j 08:53	27°♋16'55	6.21354 AU
conjunction	-8657 Sep 21 j 00:41	27°♋26'03	1°21'09
minimum elong	-8657 Sep 21 j 00:45	27°♋26'05	1°21'39
	-8657 Oct 02 j 03:47	0°♌	
morning rise	-8657 Oct 03 j 12:43	0°♌18'53	
	-8657 Dec 16 j 20:30	15°♌	
retrograde	-8656 Feb 07 j 20:55	19°♌03'18	
	-8656 Apr 02 j 07:20	15°℞♌	
opposition	-8656 Apr 09 j 05:19	14°♌07'02	1°33'08
min. Earth dist.	-8656 Apr 09 j 10:47	14°♌05'16	4.17004 AU
direct	-8656 Jun 08 j 14:45	9°♌13'38	
	-8656 Aug 10 j 06:48	15°♌	
evening set	-8656 Oct 10 j 03:11	27°♌42'26	
	-8656 Oct 19 j 22:40	0°♍	
conjunction	-8656 Oct 22 j 21:10	0°♍41'18	0°39'25
minimum elong	-8656 Oct 22 j 21:14	0°♍41'21	0°39'45
max. Earth dist.	-8656 Oct 22 j 23:27	0°♍42'39	6.12843 AU
morning rise	-8656 Nov 04 j 17:58	3°♍41'44	
retrograde	-8655 Mar 14 j 20:40	23°♍11'42	
opposition	-8655 May 14 j 22:41	18°♍11'26	0°16'55
min. Earth dist.	-8655 May 14 j 12:29	18°♍14'46	4.09278 AU
direct	-8655 Jul 13 j 01:27	13°♍18'29	
desc. node	-8655 Jul 31 j 22:37	13°♍53'57	
	-8655 Nov 04 j 09:56	0°♎	
evening set	-8655 Nov 13 j 09:09	2°♎05'22	
conjunction	-8655 Nov 26 j 12:28	5°♎11'02	-0°16'57
minimum elong	-8655 Nov 26 j 12:26	5°♎11'01	0°16'55
max. Earth dist.	-8655 Nov 27 j 12:12	5°♎25'02	6.06662 AU
morning rise	-8655 Dec 09 j 19:06	8°♎18'34	
retrograde	-8654 Apr 20 j 12:42	28°♎18'05	
opposition	-8654 Jun 19 j 22:27	23°♎14'26	-1°07'26
min. Earth dist.	-8654 Jun 19 j 02:06	23°♎21'15	4.05268 AU
direct	-8654 Aug 17 j 05:46	18°♎19'56	
	-8654 Nov 16 j 16:54	0°♏	
evening set	-8654 Dec 19 j 08:40	7°♏22'39	
conjunction	-8653 Jan 01 j 19:34	10°♏32'14	-1°07'57
minimum elong	-8653 Jan 01 j 19:28	10°♏32'10	1°08'16
max. Earth dist.	-8653 Jan 03 j 07:29	10°♏53'20	6.05097 AU
morning rise	-8653 Jan 15 j 09:42	13°♏43'25	
	-8653 Jan 20 j 21:32	15°♏	
	-8653 Apr 07 j 03:48	0°♐	
retrograde	-8653 May 26 j 16:29	3°♐42'58	
	-8653 Jul 15 j 06:51	30°℞♏	
min. Earth dist.	-8653 Jul 24 j 10:13	28°♏46'14	4.06468 AU
opposition	-8653 Jul 25 j 10:54	28°♏37'49	-2°07'21
direct	-8653 Sep 21 j 13:41	23°♏40'15	
	-8653 Nov 25 j 08:39	0°♐	
evening set	-8652 Jan 25 j 07:32	12°♐48'55	
conjunction	-8652 Feb 07 j 23:13	15°♐58'42	-1°33'56
minimum elong	-8652 Feb 07 j 23:12	15°♐58'41	1°34'28
max. Earth dist.	-8652 Feb 09 j 10:50	16°♐19'22	6.08815 AU
morning rise	-8652 Feb 21 j 16:37	19°♐09'13	
	-8652 Apr 12 j 04:00	0°♑	
retrograde	-8652 Jun 29 j 16:29	8°♑37'18	
opposition	-8652 Aug 27 j 22:41	3°♑33'11	-2°20'02
min. Earth dist.	-8652 Aug 27 j 04:10	3°♑39'31	4.12380 AU
	-8652 Sep 25 j 23:42	30°℞♐	
direct	-8652 Oct 25 j 17:42	28°♐32'12	
	-8652 Nov 24 j 18:47	0°♑	
evening set	-8651 Mar 02 j 00:39	17°♑32'48	
conjunction	-8651 Mar 15 j 18:10	20°♑40'03	-1°25'55
minimum elong	-8651 Mar 15 j 18:14	20°♑40'05	1°26'26
max. Earth dist.	-8651 Mar 16 j 16:52	20°♑52'58	6.16383 AU
morning rise	-8651 Mar 29 j 11:11	23°♑46'55	
	-8651 Apr 26 j 18:59	0°♒	
retrograde	-8651 Aug 02 j 02:12	12°♒24'55	
opposition	-8651 Sep 30 j 05:24	7°♒23'58	-1°44'16
min. Earth dist.	-8651 Sep 29 j 21:19	7°♒26'42	4.20810 AU
direct	-8651 Nov 29 j 03:11	2°♒20'31	
	-8650 Mar 09 j 12:33	15°♒	
evening set	-8650 Apr 06 j 12:04	21°♒03'02	
conjunction	-8650 Apr 20 j 03:11	24°♒05'48	-0°49'10
minimum elong	-8650 Apr 20 j 03:15	24°♒05'51	0°49'32
max. Earth dist.	-8650 Apr 20 j 03:43	24°♒06'06	6.25079 AU
morning rise	-8650 May 03 j 16:10	27°♒07'20	
	-8650 May 16 j 18:04	0°♓	
retrograde	-8650 Sep 03 j 06:05	14°♓57'15	
opposition	-8650 Nov 01 j 13:42	10°♓00'10	-0°36'33
min. Earth dist.	-8650 Nov 01 j 19:48	9°♓58'08	4.28921 AU
direct	-8649 Jan 01 j 18:49	4°♓55'55	
asc. node	-8649 May 07 j 22:14	22°♓46'37	
evening set	-8649 May 10 j 08:38	23°♓18'41	
conjunction	-8649 May 23 j 17:10	26°♓15'57	0°02'08
minimum elong	-8649 May 23 j 17:10	26°♓15'57	0°02'02
behind sun begin	-8649 May 23 j 08:59	26°♓11'27	
behind sun end	-8649 May 24 j 01:21	26°♓20'28	
max. Earth dist.	-8649 May 22 j 23:29	26°♓06'09	6.32053 AU
morning rise	-8649 Jun 05 j 22:09	29°♓11'26	
	-8649 Jun 09 j 14:31	0°♈	
retrograde	-8649 Oct 04 j 15:11	16°♈30'35	
opposition	-8649 Dec 03 j 11:21	11°♈36'49	0°40'07
min. Earth dist.	-8649 Dec 04 j 04:07	11°♈31'21	4.34240 AU

Attention, astronomical year style is used: The year -8648 in astronomical counting style is the year 8649 BCE in historical counting style.

direct	-8648 Feb 03 j 14:28	6°♈33'31	
evening set	-8648 Jun 10 j 19:24	24°♈42'12	
max. Earth dist.	-8648 Jun 22 j 10:29	27°♈16'31	6.35262 AU
conjunction	-8648 Jun 23 j 18:07	27°♈34'04	0°51'49
minimum elong	-8648 Jun 23 j 18:03	27°♈34'02	0°52'01
	-8648 Jul 04 j 17:30	0°♉	
morning rise	-8648 Jul 06 j 13:35	0°♉24'19	
	-8648 Sep 23 j 15:58	15°♉	
retrograde	-8648 Nov 04 j 03:36	17°♉36'35	
	-8648 Dec 16 j 05:12	15°℞♉	
opposition	-8647 Jan 03 j 13:23	12°♉44'46	1°44'12
min. Earth dist.	-8647 Jan 04 j 14:01	12°♉36'53	4.35234 AU
direct	-8647 Mar 07 j 03:33	7°♉43'44	
	-8647 May 20 j 09:49	15°♉	
evening set	-8647 Jul 12 j 07:17	25°♉46'51	
max. Earth dist.	-8647 Jul 23 j 10:20	28°♉15'51	6.33836 AU
conjunction	-8647 Jul 24 j 21:17	28°♉35'25	1°26'21
minimum elong	-8647 Jul 24 j 21:13	28°♉35'23	1°26'46
	-8647 Jul 31 j 04:23	0°♊	
morning rise	-8647 Aug 06 j 08:52	1°♊22'52	
retrograde	-8647 Dec 06 j 08:30	18°♊52'05	
opposition	-8646 Feb 05 j 08:44	14°♊00'20	2°18'42
min. Earth dist.	-8646 Feb 06 j 08:11	13°♊52'53	4.31611 AU
direct	-8646 Apr 08 j 15:22	9°♊02'17	
evening set	-8646 Aug 12 j 11:49	27°♊08'24	
conjunction	-8646 Aug 24 j 21:31	29°♊57'13	1°36'00
minimum elong	-8646 Aug 24 j 21:32	29°♊57'13	1°36'34
max. Earth dist.	-8646 Aug 23 j 17:15	29°♊41'08	6.28217 AU
	-8646 Aug 25 j 02:25	0°♋	
morning rise	-8646 Sep 06 j 06:29	2°♋45'48	
retrograde	-8645 Jan 08 j 22:38	20°♋51'02	
opposition	-8645 Mar 11 j 06:06	15°♋57'33	2°12'34
min. Earth dist.	-8645 Mar 11 j 22:51	15°♋52'14	4.24374 AU
direct	-8645 May 11 j 16:55	11°♋02'25	
evening set	-8645 Sep 13 j 02:45	29°♋18'40	
	-8645 Sep 16 j 02:36	0°♌	
conjunction	-8645 Sep 25 j 14:35	2°♌11'45	1°16'39
minimum elong	-8645 Sep 25 j 14:40	2°♌11'47	1°17'08
max. Earth dist.	-8645 Sep 25 j 00:07	2°♌03'23	6.19998 AU
morning rise	-8645 Oct 08 j 03:45	5°♌05'39	
	-8645 Nov 23 j 02:57	15°♌	
retrograde	-8644 Feb 12 j 21:37	23°♌57'17	
opposition	-8644 Apr 14 j 06:23	19°♌00'27	1°23'53
min. Earth dist.	-8644 Apr 14 j 08:34	18°♌59'45	4.15712 AU
	-8644 May 20 j 22:21	15°℞♌	
direct	-8644 Jun 13 j 10:31	14°♌07'17	
	-8644 Jul 06 j 21:23	15°♌	
	-8644 Oct 03 j 10:46	0°♍	
evening set	-8644 Oct 14 j 21:51	2°♍38'47	
conjunction	-8644 Oct 27 j 17:14	5°♍38'43	0°31'53
minimum elong	-8644 Oct 27 j 17:17	5°♍38'45	0°32'10
max. Earth dist.	-8644 Oct 28 j 00:13	5°♍42'49	6.11771 AU
morning rise	-8644 Nov 09 j 15:17	8°♍40'13	
retrograde	-8643 Mar 20 j 02:41	28°♍15'33	
opposition	-8643 May 20 j 01:53	23°♍14'45	0°04'40
min. Earth dist.	-8643 May 19 j 14:20	23°♍18'33	4.08539 AU
desc. node	-8643 Jun 10 j 12:44	20°♍35'00	
direct	-8643 Jul 18 j 02:06	18°♍21'44	
	-8643 Oct 17 j 17:14	0°♎	
evening set	-8643 Nov 18 j 09:47	7°♎10'36	
conjunction	-8643 Dec 01 j 14:10	10°♎16'55	-0°25'00
minimum elong	-8643 Dec 01 j 14:07	10°♎16'53	0°25'01
max. Earth dist.	-8643 Dec 02 j 15:54	10°♎32'05	6.06320 AU
morning rise	-8643 Dec 14 j 22:11	13°♎25'09	
	-8642 Mar 08 j 20:06	0°♏	
retrograde	-8642 Apr 25 j 15:48	3°♏25'40	
	-8642 Jun 12 j 14:23	30°℞♎	
min. Earth dist.	-8642 Jun 24 j 01:46	28°♎29'14	4.05392 AU
opposition	-8642 Jun 25 j 00:22	28°♎21'38	-1°18'03
direct	-8642 Aug 22 j 05:13	23°♎26'48	
	-8642 Oct 26 j 22:41	0°♏	
evening set	-8642 Dec 24 j 12:59	12°♏29'53	
	-8641 Jan 04 j 05:22	15°♏	
conjunction	-8641 Jan 07 j 00:39	15°♏39'30	-1°13'27
minimum elong	-8641 Jan 07 j 00:34	15°♏39'27	1°13'48
max. Earth dist.	-8641 Jan 08 j 13:39	16°♏01'12	6.05642 AU
morning rise	-8641 Jan 20 j 15:18	18°♏50'36	
	-8641 Mar 13 j 01:52	0°♐	
retrograde	-8641 May 31 j 16:19	8°♐46'12	
min. Earth dist.	-8641 Jul 29 j 09:18	3°♐49'03	4.07381 AU
opposition	-8641 Jul 30 j 08:53	3°♐41'00	-2°12'09
	-8641 Aug 29 j 23:18	30°℞♏	
direct	-8641 Sep 26 j 14:03	28°♏42'57	
	-8641 Oct 24 j 08:21	0°♐	
evening set	-8640 Jan 30 j 11:33	17°♐49'59	
conjunction	-8640 Feb 13 j 03:41	20°♐59'24	-1°34'50
minimum elong	-8640 Feb 13 j 03:40	20°♐59'24	1°35'23
max. Earth dist.	-8640 Feb 14 j 14:51	21°♐19'44	6.09993 AU
morning rise	-8640 Feb 26 j 21:06	24°♐09'23	
	-8640 Mar 24 j 00:14	0°♑	
retrograde	-8640 Jul 04 j 09:35	13°♑30'02	
opposition	-8640 Sep 01 j 15:20	8°♑26'19	-2°17'39
min. Earth dist.	-8640 Aug 31 j 21:43	8°♑32'20	4.13706 AU
direct	-8640 Oct 30 j 13:10	3°♑24'56	
evening set	-8639 Mar 07 j 00:49	22°♑22'42	
conjunction	-8639 Mar 20 j 18:05	25°♑29'19	-1°22'14
minimum elong	-8639 Mar 20 j 18:10	25°♑29'21	1°22'46
max. Earth dist.	-8639 Mar 21 j 12:06	25°♑39'32	6.17735 AU
morning rise	-8639 Apr 03 j 10:53	28°♑35'29	
	-8639 Apr 09 j 17:35	0°♒	
	-8639 Jul 01 j 06:40	15°♒	
retrograde	-8639 Aug 06 j 15:05	17°♒06'04	
	-8639 Sep 11 j 18:22	15°℞♒	
opposition	-8639 Oct 04 j 18:06	12°♒05'39	-1°36'16
min. Earth dist.	-8639 Oct 04 j 12:57	12°♒07'24	4.22044 AU
direct	-8639 Dec 03 j 21:20	7°♒01'58	
	-8638 Feb 18 j 11:25	15°♒	
evening set	-8638 Apr 11 j 06:39	25°♒41'45	
conjunction	-8638 Apr 24 j 21:17	28°♒43'53	-0°42'34
minimum elong	-8638 Apr 24 j 21:21	28°♒43'55	0°42'54
max. Earth dist.	-8638 Apr 24 j 19:47	28°♒43'03	6.26115 AU
	-8638 Apr 30 j 13:25	0°♓	
morning rise	-8638 May 08 j 09:14	1°♓44'37	
retrograde	-8638 Sep 07 j 15:09	19°♓29'37	
opposition	-8638 Nov 06 j 00:14	14°♓33'06	-0°25'57
min. Earth dist.	-8638 Nov 06 j 07:39	14°♓30'39	4.29677 AU
direct	-8637 Jan 06 j 07:48	9°♓28'56	
asc. node	-8637 Mar 17 j 23:47	16°♓12'04	
evening set	-8637 May 14 j 23:00	27°♓50'16	
	-8637 May 24 j 17:44	0°♈	
max. Earth dist.	-8637 May 27 j 08:25	0°♈34'47	6.32471 AU
conjunction	-8637 May 28 j 06:11	0°♈46'51	0°09'28
minimum elong	-8637 May 28 j 06:10	0°♈46'50	0°09'23

Attention, astronomical year style is used: The year -8637 in astronomical counting style is the year 8638 BCE in historical counting style.

behind sun begin	-8637 May 27 j 23:22	0°♈43'05	
behind sun end	-8637 May 28 j 12:57	0°♈50'35	
morning rise	-8637 Jun 10 j 10:05	3°♈41'42	
retrograde	-8637 Oct 09 j 02:08	20°♈59'32	
opposition	-8637 Dec 07 j 22:33	16°♈06'11	0°50'13
min. Earth dist.	-8637 Dec 08 j 17:44	15°♈59'56	4.34310 AU
direct	-8636 Feb 08 j 04:22	11°♈03'07	
evening set	-8636 Jun 15 j 06:46	29°♈11'53	
	-8636 Jun 18 j 21:58	0°♉	
max. Earth dist.	-8636 Jun 26 j 20:29	1°♉45'38	6.34970 AU
conjunction	-8636 Jun 28 j 04:22	2°♉03'21	0°57'48
minimum elong	-8636 Jun 28 j 04:18	2°♉03'19	0°58'02
morning rise	-8636 Jul 10 j 22:29	4°♉53'11	
	-8636 Aug 29 j 07:42	15°♉	
retrograde	-8636 Nov 08 j 15:11	22°♉07'43	
opposition	-8635 Jan 08 j 03:22	17°♉16'03	1°51'09
min. Earth dist.	-8635 Jan 09 j 03:18	17°♉08'24	4.34637 AU
	-8635 Jan 26 j 13:35	15°℞♉	
direct	-8635 Mar 11 j 15:35	12°♉15'29	
	-8635 Apr 24 j 13:05	15°♉	
	-8635 Jul 15 j 06:17	0°♊	
evening set	-8635 Jul 16 j 17:52	0°♊19'47	
max. Earth dist.	-8635 Jul 27 j 20:22	2°♊48'54	6.32973 AU
conjunction	-8635 Jul 29 j 06:51	3°♊08'16	1°29'20
minimum elong	-8635 Jul 29 j 06:48	3°♊08'14	1°29'48
morning rise	-8635 Aug 10 j 17:48	5°♊55'46	
retrograde	-8635 Dec 11 j 03:03	23°♊30'01	
opposition	-8634 Feb 10 j 03:13	18°♊38'09	2°20'24
min. Earth dist.	-8634 Feb 11 j 02:40	18°♊30'43	4.30547 AU
direct	-8634 Apr 13 j 08:22	13°♊40'35	
	-8634 Aug 08 j 22:38	0°♋	
evening set	-8634 Aug 16 j 23:29	1°♋48'22	
max. Earth dist.	-8634 Aug 28 j 06:38	4°♋22'30	6.27042 AU
conjunction	-8634 Aug 29 j 09:09	4°♋37'37	1°34'59
minimum elong	-8634 Aug 29 j 09:10	4°♋37'38	1°35'32
morning rise	-8634 Sep 10 j 18:22	7°♋26'48	
retrograde	-8633 Jan 13 j 19:28	25°♋38'21	
opposition	-8633 Mar 16 j 04:38	20°♋44'25	2°08'02
min. Earth dist.	-8633 Mar 16 j 18:17	20°♋40'05	4.23177 AU
direct	-8633 May 16 j 10:30	15°♋49'41	
	-8633 Aug 30 j 11:27	0°♌	
evening set	-8633 Sep 17 j 17:26	4°♌07'37	
conjunction	-8633 Sep 30 j 06:07	7°♌01'31	1°11'34
minimum elong	-8633 Sep 30 j 06:11	7°♌01'34	1°12'03
max. Earth dist.	-8633 Sep 29 j 19:44	6°♌55'30	6.18893 AU
morning rise	-8633 Oct 12 j 20:11	9°♌56'19	
	-8633 Nov 04 j 07:20	15°♌	
retrograde	-8632 Feb 18 j 00:37	28°♌53'54	
opposition	-8632 Apr 19 j 08:08	23°♌56'31	1°13'56
min. Earth dist.	-8632 Apr 19 j 08:53	23°♌56'16	4.14751 AU
direct	-8632 Jun 18 j 09:30	19°♌03'27	
	-8632 Sep 15 j 17:39	0°♍	
evening set	-8632 Oct 19 j 16:58	7°♍36'24	
conjunction	-8632 Nov 01 j 13:30	10°♍37'11	0°24'07
minimum elong	-8632 Nov 01 j 13:33	10°♍37'12	0°24'21
max. Earth dist.	-8632 Nov 01 j 23:00	10°♍42'44	6.11038 AU
morning rise	-8632 Nov 14 j 13:05	13°♍39'39	
	-8631 Feb 05 j 22:05	0°♎	
retrograde	-8631 Mar 25 j 05:26	3°♎18'45	
desc. node	-8631 Apr 20 j 07:49	2°♎15'01	
	-8631 May 11 j 22:27	30°℞♍	
opposition	-8631 May 25 j 04:03	28°♍17'24	-0°07'35
min. Earth dist.	-8631 May 24 j 13:42	28°♍22'08	4.08097 AU
direct	-8631 Jul 23 j 00:10	23°♍24'14	
	-8631 Sep 27 j 05:30	0°♎	
evening set	-8631 Nov 23 j 09:58	12°♎14'19	
conjunction	-8631 Dec 06 j 15:28	15°♎21'08	-0°32'50
minimum elong	-8631 Dec 06 j 15:25	15°♎21'06	0°32'55
max. Earth dist.	-8631 Dec 07 j 19:27	15°♎37'38	6.06195 AU
morning rise	-8631 Dec 20 j 00:30	18°♎29'51	
	-8630 Feb 11 j 01:39	0°♏	
retrograde	-8630 Apr 30 j 18:07	8°♏30'33	
min. Earth dist.	-8630 Jun 29 j 02:03	3°♏33'47	4.05602 AU
opposition	-8630 Jun 30 j 00:35	3°♏26'11	-1°28'01
	-8630 Jul 28 j 09:05	30°℞♎	
direct	-8630 Aug 27 j 05:29	28°♎30'55	
	-8630 Sep 26 j 00:59	0°♏	
	-8630 Dec 18 j 13:12	15°♏	
evening set	-8630 Dec 29 j 16:30	17°♏34'26	
conjunction	-8629 Jan 12 j 04:58	20°♏44'06	-1°18'23
minimum elong	-8629 Jan 12 j 04:53	20°♏44'03	1°18'45
max. Earth dist.	-8629 Jan 13 j 18:55	21°♏06'19	6.06161 AU
morning rise	-8629 Jan 25 j 20:10	23°♏55'10	
	-8629 Feb 21 j 17:25	0°♐	
retrograde	-8629 Jun 05 j 14:32	13°♐46'43	
min. Earth dist.	-8629 Aug 03 j 05:58	8°♐49'36	4.08185 AU
opposition	-8629 Aug 04 j 05:21	8°♐41'37	-2°15'59
direct	-8629 Oct 01 j 11:22	3°♐43'05	
evening set	-8628 Feb 04 j 14:57	22°♐49'07	
conjunction	-8628 Feb 18 j 07:16	25°♐58'12	-1°35'05
minimum elong	-8628 Feb 18 j 07:17	25°♐58'12	1°35'37
max. Earth dist.	-8628 Feb 19 j 14:59	26°♐16'29	6.10993 AU
morning rise	-8628 Mar 03 j 00:56	29°♐07'45	
	-8628 Mar 06 j 20:30	0°♑	
retrograde	-8628 Jul 09 j 02:40	18°♑21'50	
opposition	-8628 Sep 06 j 07:44	13°♑18'28	-2°14'23
min. Earth dist.	-8628 Sep 05 j 16:03	13°♑23'50	4.14799 AU
direct	-8628 Nov 04 j 09:51	8°♑16'37	
evening set	-8627 Mar 12 j 00:41	27°♑12'18	
	-8627 Mar 24 j 09:28	0°♒	
conjunction	-8627 Mar 25 j 18:02	0°♒18'27	-1°18'02
minimum elong	-8627 Mar 25 j 18:07	0°♒18'30	1°18'33
max. Earth dist.	-8627 Mar 26 j 10:22	0°♒27'43	6.18857 AU
morning rise	-8627 Apr 08 j 10:16	3°♒23'56	
	-8627 Jun 03 j 14:46	15°♒	
retrograde	-8627 Aug 11 j 04:19	21°♒47'52	
opposition	-8627 Oct 09 j 07:09	16°♒48'02	-1°27'40
min. Earth dist.	-8627 Oct 09 j 03:41	16°♒49'12	4.23081 AU
	-8627 Oct 22 j 22:59	15°℞♒	
direct	-8627 Dec 08 j 13:46	11°♒44'11	
	-8626 Jan 24 j 13:08	15°♒	
	-8626 Apr 14 j 10:42	0°♓	
evening set	-8626 Apr 16 j 02:03	0°♓21'47	
conjunction	-8626 Apr 29 j 15:49	3°♓23'16	-0°35'39
minimum elong	-8626 Apr 29 j 15:52	3°♓23'18	0°35'57
max. Earth dist.	-8626 Apr 29 j 09:45	3°♓19'53	6.26992 AU
morning rise	-8626 May 13 j 03:02	6°♓23'18	
retrograde	-8626 Sep 12 j 02:12	24°♓03'55	
opposition	-8626 Nov 10 j 12:01	19°♓07'52	-0°15'05
min. Earth dist.	-8626 Nov 10 j 21:43	19°♓04'40	4.30329 AU
direct	-8625 Jan 10 j 23:21	14°♓03'43	
asc. node	-8625 Jan 25 j 17:44	14°♓23'53	
	-8625 May 08 j 14:22	0°♈	
evening set	-8625 May 19 j 13:51	2°♈23'40	

Attention, astronomical year style is used: The year -8625 in astronomical counting style is the year 8626 BCE in historical counting style.

conjunction	-8625 Jun 01 j 19:58	5°♈19'37	0°16'49
minimum elong	-8625 Jun 01 j 19:57	5°♈19'37	0°16'48
max. Earth dist.	-8625 May 31 j 21:33	5°♈07'11	6.32857 AU
morning rise	-8625 Jun 14 j 22:26	8°♈13'46	
retrograde	-8625 Oct 13 j 12:22	25°♈30'28	
opposition	-8625 Dec 12 j 11:08	20°♈37'28	1°00'11
min. Earth dist.	-8625 Dec 13 j 06:36	20°♈31'10	4.34426 AU
direct	-8624 Feb 12 j 17:25	15°♈34'47	
	-8624 Jun 02 j 15:35	0°♉	
evening set	-8624 Jun 19 j 18:51	3°♉43'07	
max. Earth dist.	-8624 Jul 01 j 05:13	6°♉15'17	6.34799 AU
conjunction	-8624 Jul 02 j 14:56	6°♉34'03	1°03'33
minimum elong	-8624 Jul 02 j 14:52	6°♉34'00	1°03'49
morning rise	-8624 Jul 15 j 08:00	9°♉23'27	
	-8624 Aug 10 j 09:40	15°♉	
retrograde	-8624 Nov 13 j 05:47	26°♉39'59	
opposition	-8623 Jan 12 j 18:37	21°♉48'25	1°57'31
min. Earth dist.	-8623 Jan 13 j 19:19	21°♉40'32	4.34225 AU
direct	-8623 Mar 16 j 07:24	16°♉48'16	
	-8623 Jun 28 j 18:39	0°♊	
evening set	-8623 Jul 21 j 04:29	4°♊52'50	
max. Earth dist.	-8623 Aug 01 j 08:11	7°♊22'53	6.32355 AU
conjunction	-8623 Aug 02 j 16:48	7°♊41'13	1°31'50
minimum elong	-8623 Aug 02 j 16:45	7°♊41'12	1°32'20
morning rise	-8623 Aug 15 j 02:59	10°♊28'41	
retrograde	-8623 Dec 15 j 18:35	28°♊07'05	
opposition	-8622 Feb 14 j 21:38	23°♊15'03	2°21'16
min. Earth dist.	-8622 Feb 15 j 18:55	23°♊08'18	4.29790 AU
direct	-8622 Apr 17 j 23:16	18°♊17'59	
	-8622 Jul 23 j 00:31	0°♋	
evening set	-8622 Aug 21 j 10:30	6°♋26'16	
conjunction	-8622 Sep 02 j 20:05	9°♋15'51	1°33'23
minimum elong	-8622 Sep 02 j 20:07	9°♋15'52	1°33'56
max. Earth dist.	-8622 Sep 01 j 19:44	9°♋01'55	6.26204 AU
morning rise	-8622 Sep 15 j 05:36	12°♋05'30	
	-8621 Jan 03 j 03:44	0°♌	
retrograde	-8621 Jan 18 j 17:25	0°♌22'22	
	-8621 Feb 03 j 05:55	30°℞♋	
opposition	-8621 Mar 21 j 02:26	25°♋28'01	2°02'42
min. Earth dist.	-8621 Mar 21 j 15:01	25°♋24'01	4.22292 AU
direct	-8621 May 21 j 06:05	20°♋33'35	
	-8621 Aug 12 j 13:36	0°♌	
evening set	-8621 Sep 22 j 06:32	8°♌52'12	
conjunction	-8621 Oct 04 j 20:03	11°♌46'50	1°06'05
minimum elong	-8621 Oct 04 j 20:08	11°♌46'53	1°06'33
max. Earth dist.	-8621 Oct 04 j 12:24	11°♌42'23	6.18048 AU
morning rise	-8621 Oct 17 j 11:14	14°♌42'30	
	-8621 Oct 18 j 17:36	15°♌	
	-8620 Jan 03 j 04:25	0°♍	
retrograde	-8620 Feb 22 j 23:27	3°♍45'08	
	-8620 Apr 14 j 20:10	30°℞♌	
opposition	-8620 Apr 24 j 07:32	28°♌47'13	1°03'37
min. Earth dist.	-8620 Apr 24 j 05:26	28°♌47'54	4.14007 AU
direct	-8620 Jun 23 j 04:10	23°♌54'17	
	-8620 Aug 26 j 07:27	0°♍	
evening set	-8620 Oct 24 j 10:21	12°♍28'20	
conjunction	-8620 Nov 06 j 08:02	15°♍29'54	0°16'19
minimum elong	-8620 Nov 06 j 08:04	15°♍29'54	0°16'31
max. Earth dist.	-8620 Nov 06 j 20:06	15°♍36'58	6.10454 AU
morning rise	-8620 Nov 19 j 08:52	18°♍33'12	
	-8619 Jan 11 j 10:51	0°♎	
desc. node	-8619 Feb 28 j 20:13	6°♎55'36	
retrograde	-8619 Mar 30 j 07:20	8°♎15'42	
opposition	-8619 May 30 j 03:27	3°♎13'50	-0°19'33
min. Earth dist.	-8619 May 29 j 12:22	3°♎18'50	4.07713 AU
	-8619 Jun 25 j 21:51	30°℞♍	
direct	-8619 Jul 27 j 21:32	28°♍20'28	
	-8619 Aug 28 j 15:28	0°♎	
evening set	-8619 Nov 28 j 08:01	17°♎12'00	
conjunction	-8619 Dec 11 j 14:40	20°♎19'22	-0°40'16
minimum elong	-8619 Dec 11 j 14:36	20°♎19'20	0°40'24
max. Earth dist.	-8619 Dec 12 j 20:49	20°♎37'08	6.06038 AU
morning rise	-8619 Dec 25 j 00:43	23°♎28'35	
	-8618 Jan 22 j 18:51	0°♏	
retrograde	-8618 May 05 j 18:03	13°♏29'33	
opposition	-8618 Jul 04 j 22:14	8°♏25'00	-1°37'08
min. Earth dist.	-8618 Jul 03 j 23:16	8°♏32'46	4.05715 AU
direct	-8618 Sep 01 j 01:20	3°♏29'23	
	-8618 Dec 01 j 00:55	15°♏	
evening set	-8617 Jan 03 j 18:08	22°♏34'02	
conjunction	-8617 Jan 17 j 07:10	25°♏43'48	-1°22'38
minimum elong	-8617 Jan 17 j 07:05	25°♏43'45	1°23'04
max. Earth dist.	-8617 Jan 18 j 19:19	26°♏04'56	6.06500 AU
morning rise	-8617 Jan 30 j 23:01	28°♏54'54	
	-8617 Feb 04 j 15:39	0°♐	
retrograde	-8617 Jun 10 j 10:46	18°♐43'23	
min. Earth dist.	-8617 Aug 08 j 01:29	13°♐46'06	4.08729 AU
opposition	-8617 Aug 09 j 00:00	13°♐38'23	-2°18'49
direct	-8617 Oct 06 j 08:13	8°♐39'22	
evening set	-8616 Feb 09 j 16:59	27°♐45'32	
	-8616 Feb 19 j 11:12	0°♑	
conjunction	-8616 Feb 23 j 09:51	0°♑54'30	-1°34'38
minimum elong	-8616 Feb 23 j 09:52	0°♑54'30	1°35'10
max. Earth dist.	-8616 Feb 24 j 16:54	1°♑12'22	6.11711 AU
morning rise	-8616 Mar 08 j 03:25	4°♑03'43	
retrograde	-8616 Jul 13 j 20:21	23°♑12'20	
opposition	-8616 Sep 10 j 23:20	18°♑09'26	-2°10'14
min. Earth dist.	-8616 Sep 10 j 09:24	18°♑14'11	4.15620 AU
direct	-8616 Nov 09 j 04:27	13°♑07'16	
	-8615 Mar 07 j 21:57	0°♒	
evening set	-8615 Mar 17 j 00:19	2°♒01'53	
conjunction	-8615 Mar 30 j 17:25	5°♒07'38	-1°13'17
minimum elong	-8615 Mar 30 j 17:31	5°♒07'41	1°13'46
max. Earth dist.	-8615 Mar 31 j 05:51	5°♒14'40	6.19724 AU
morning rise	-8615 Apr 13 j 09:26	8°♒12'38	
	-8615 May 14 j 16:09	15°♒	
retrograde	-8615 Aug 15 j 16:58	26°♒30'55	
opposition	-8615 Oct 13 j 20:37	21°♒31'35	-1°18'29
min. Earth dist.	-8615 Oct 13 j 18:40	21°♒32'14	4.23919 AU
direct	-8615 Dec 13 j 06:45	16°♒27'34	
	-8614 Mar 28 j 12:48	0°♓	
evening set	-8614 Apr 20 j 21:20	5°♓03'29	
conjunction	-8614 May 04 j 10:24	8°♓04'21	-0°28'28
minimum elong	-8614 May 04 j 10:26	8°♓04'22	0°28'45
max. Earth dist.	-8614 May 04 j 02:57	8°♓00'11	6.27769 AU
morning rise	-8614 May 17 j 20:31	11°♓03'39	
retrograde	-8614 Sep 16 j 13:29	28°♓40'14	
opposition	-8614 Nov 15 j 00:36	23°♓44'41	-0°04'03
min. Earth dist.	-8614 Nov 15 j 11:34	23°♓41'04	4.30978 AU
asc. node	-8614 Dec 05 j 12:04	21°♓10'28	
direct	-8613 Jan 15 j 14:54	18°♓40'41	
	-8613 Apr 21 j 05:41	0°♈	
evening set	-8613 May 24 j 04:59	6°♈58'51	
max. Earth dist.	-8613 Jun 05 j 08:33	9°♈40'07	6.33319 AU

Attention, astronomical year style is used: The year -8613 in astronomical counting style is the year 8614 BCE in historical counting style.

conjunction	-8613 Jun 06 j 09:40	9°♈54'03	0°24'07
minimum elong	-8613 Jun 06 j 09:38	9°♈54'01	0°24'09
morning rise	-8613 Jun 19 j 10:55	12°♈47'28	
	-8613 Oct 12 j 17:19	0°♉	
retrograde	-8613 Oct 17 j 23:31	0°♉02'42	
	-8613 Oct 23 j 05:21	30°℞♈	
opposition	-8613 Dec 17 j 00:08	25°♈09'55	1°09'49
min. Earth dist.	-8613 Dec 17 j 20:41	25°♈03'16	4.34681 AU
direct	-8612 Feb 17 j 08:45	20°♈07'27	
	-8612 May 15 j 22:15	0°♉	
evening set	-8612 Jun 24 j 06:19	8°♉14'30	
max. Earth dist.	-8612 Jul 05 j 16:38	10°♉46'43	6.34808 AU
conjunction	-8612 Jul 07 j 01:14	11°♉04'52	1°08'55
minimum elong	-8612 Jul 07 j 01:09	11°♉04'49	1°09'13
morning rise	-8612 Jul 19 j 16:56	13°♉53'43	
	-8612 Jul 24 j 17:09	15°♉	
	-8612 Oct 20 j 23:39	0°♊	
retrograde	-8612 Nov 17 j 17:14	1°♊11'32	
	-8612 Dec 15 j 14:35	30°℞♉	
opposition	-8611 Jan 17 j 09:22	26°♉19'58	2°03'10
min. Earth dist.	-8611 Jan 18 j 09:34	26°♉12'15	4.33981 AU
direct	-8611 Mar 20 j 21:32	21°♉20'13	
	-8611 Jun 10 j 14:21	0°♊	
evening set	-8611 Jul 25 j 14:02	9°♊24'14	
max. Earth dist.	-8611 Aug 05 j 16:24	11°♊53'50	6.31837 AU
conjunction	-8611 Aug 07 j 01:25	12°♊12'26	1°33'47
minimum elong	-8611 Aug 07 j 01:23	12°♊12'25	1°34'17
morning rise	-8611 Aug 19 j 11:14	14°♊59'54	
	-8611 Nov 07 j 19:13	0°♋	
retrograde	-8611 Dec 20 j 11:23	2°♋42'16	
	-8610 Feb 01 j 21:11	30°℞♊	
opposition	-8610 Feb 19 j 15:21	27°♊49'57	2°21'16
min. Earth dist.	-8610 Feb 20 j 12:28	27°♊43'15	4.29012 AU
direct	-8610 Apr 22 j 15:50	22°♊53'11	
	-8610 Jul 03 j 19:53	0°♋	
evening set	-8610 Aug 25 j 20:23	11°♋02'04	
max. Earth dist.	-8610 Sep 06 j 08:22	13°♋39'35	6.25230 AU
conjunction	-8610 Sep 07 j 06:16	13°♋52'07	1°31'14
minimum elong	-8610 Sep 07 j 06:19	13°♋52'08	1°31'47
morning rise	-8610 Sep 19 j 16:06	16°♋42'20	
	-8610 Nov 24 j 17:08	0°♌	
retrograde	-8609 Jan 23 j 12:47	5°♌04'56	
opposition	-8609 Mar 25 j 23:11	0°♌10'10	1°56'38
min. Earth dist.	-8609 Mar 26 j 09:43	0°♌06'48	4.21180 AU
	-8609 Mar 27 j 07:03	30°℞♋	
direct	-8609 May 25 j 22:24	25°♋16'00	
	-8609 Jul 21 j 17:22	0°♌	
evening set	-8609 Sep 26 j 19:50	13°♌36'22	
	-8609 Oct 02 j 20:13	15°♌	
conjunction	-8609 Oct 09 j 10:13	16°♌31'54	1°00'12
minimum elong	-8609 Oct 09 j 10:17	16°♌31'56	1°00'37
max. Earth dist.	-8609 Oct 09 j 04:19	16°♌28'28	6.16897 AU
morning rise	-8609 Oct 22 j 02:38	19°♌28'36	
	-8609 Dec 09 j 23:34	0°♍	
retrograde	-8608 Feb 28 j 00:58	8°♍37'32	
opposition	-8608 Apr 29 j 07:15	3°♍39'01	0°52'50
min. Earth dist.	-8608 Apr 29 j 03:47	3°♍40'08	4.12877 AU
	-8608 May 31 j 04:24	30°℞♌	
direct	-8608 Jun 28 j 00:15	28°♌46'03	
	-8608 Jul 25 j 14:52	0°♍	
evening set	-8608 Oct 29 j 05:02	17°♍22'50	
conjunction	-8608 Nov 11 j 04:09	20°♍25'26	0°08'21
minimum elong	-8608 Nov 11 j 04:09	20°♍25'26	0°08'31
behind sun begin	-8608 Nov 10 j 21:02	20°♍21'16	
behind sun end	-8608 Nov 11 j 11:16	20°♍29'36	
max. Earth dist.	-8608 Nov 11 j 19:24	20°♍34'23	6.09465 AU
morning rise	-8608 Nov 24 j 06:22	23°♍29'48	
	-8608 Dec 22 j 23:36	0°♎	
desc. node	-8607 Jan 08 j 10:13	3°♎25'32	
retrograde	-8607 Apr 04 j 10:36	13°♎17'01	
opposition	-8607 Jun 04 j 04:33	8°♎14'42	-0°31'33
min. Earth dist.	-8607 Jun 03 j 12:07	8°♎20'10	4.06962 AU
direct	-8607 Aug 01 j 18:56	3°♎21'08	
evening set	-8607 Dec 03 j 09:22	22°♎15'41	
conjunction	-8607 Dec 16 j 16:59	25°♎23'42	-0°47'34
minimum elong	-8607 Dec 16 j 16:54	25°♎23'39	0°47'44
max. Earth dist.	-8607 Dec 17 j 23:24	25°♎41'37	6.05568 AU
morning rise	-8607 Dec 30 j 04:13	28°♎33'34	
	-8606 Jan 05 j 08:48	0°♏	
	-8606 Mar 22 j 23:53	15°♏	
retrograde	-8606 May 10 j 20:12	18°♏35'44	
	-8606 Jun 28 j 19:45	15°℞♏	
opposition	-8606 Jul 09 j 22:29	13°♏30'57	-1°45'46
min. Earth dist.	-8606 Jul 08 j 22:50	13°♏38'58	4.05588 AU
direct	-8606 Sep 06 j 01:13	8°♏34'53	
	-8606 Nov 10 j 02:18	15°♏	
evening set	-8605 Jan 08 j 23:48	27°♏41'37	
	-8605 Jan 18 j 21:22	0°♐	
conjunction	-8605 Jan 22 j 13:46	0°♐51'38	-1°26'24
minimum elong	-8605 Jan 22 j 13:42	0°♐51'36	1°26'52
max. Earth dist.	-8605 Jan 24 j 03:25	1°♐13'38	6.06731 AU
morning rise	-8605 Feb 05 j 05:59	4°♐02'47	
retrograde	-8605 Jun 15 j 12:04	23°♐48'01	
opposition	-8605 Aug 13 j 22:00	18°♐43'15	-2°20'43
min. Earth dist.	-8605 Aug 13 j 00:32	18°♐50'35	4.09312 AU
direct	-8605 Oct 11 j 08:05	13°♐43'49	
	-8604 Feb 02 j 10:49	0°♑	
evening set	-8604 Feb 14 j 23:00	2°♑49'51	
conjunction	-8604 Feb 28 j 16:03	5°♑58'33	-1°33'29
minimum elong	-8604 Feb 28 j 16:05	5°♑58'34	1°34'03
max. Earth dist.	-8604 Feb 29 j 20:53	6°♑15'06	6.12607 AU
morning rise	-8604 Mar 13 j 09:49	9°♑07'26	
retrograde	-8604 Jul 18 j 14:30	28°♑09'29	
opposition	-8604 Sep 15 j 17:52	23°♑07'02	-2°05'04
min. Earth dist.	-8604 Sep 15 j 04:20	23°♑11'39	4.16768 AU
direct	-8604 Nov 14 j 01:52	18°♑04'35	
	-8603 Feb 18 j 01:35	0°♒	
evening set	-8603 Mar 22 j 02:22	6°♒56'40	
conjunction	-8603 Apr 04 j 19:11	10°♒01'45	-1°07'59
minimum elong	-8603 Apr 04 j 19:16	10°♒01'48	1°08'26
max. Earth dist.	-8603 Apr 05 j 06:01	10°♒07'51	6.21086 AU
morning rise	-8603 Apr 18 j 10:31	13°♒05'55	
	-8603 Apr 26 j 23:40	15°♒	
	-8603 Jul 23 j 04:32	0°♓	
retrograde	-8603 Aug 20 j 07:42	1°♓16'40	
	-8603 Sep 17 j 05:41	30°℞♒	
opposition	-8603 Oct 18 j 11:38	26°♒17'54	-1°08'43
min. Earth dist.	-8603 Oct 18 j 11:32	26°♒17'56	4.25369 AU
direct	-8603 Dec 18 j 02:48	21°♒13'53	
	-8602 Mar 09 j 15:20	0°♓	
evening set	-8602 Apr 25 j 17:06	9°♓45'39	
conjunction	-8602 May 09 j 05:08	12°♓45'31	-0°21'08
minimum elong	-8602 May 09 j 05:10	12°♓45'32	0°21'22
max. Earth dist.	-8602 May 08 j 19:19	12°♓40'04	6.29210 AU

Attention, astronomical year style is used: The year -8602 in astronomical counting style is the year 8603 BCE in historical counting style.

morning rise	-8602 May 22 j 14:06	15°♓43'46	
	-8602 Aug 06 j 00:11	0°♈	
retrograde	-8602 Sep 20 j 22:25	3°♈14'14	
asc. node	-8602 Oct 15 j 21:04	2°♈14'06	
	-8602 Nov 06 j 11:14	30°℞♓	
opposition	-8602 Nov 19 j 12:35	28°♓19'07	0°06'49
min. Earth dist.	-8602 Nov 20 j 00:27	28°♓15'12	4.32305 AU
direct	-8601 Jan 20 j 06:25	23°♓15'15	
	-8601 Apr 01 j 10:04	0°♈	
evening set	-8601 May 28 j 18:00	11°♈29'18	
conjunction	-8601 Jun 10 j 21:15	14°♈23'26	0°31'06
minimum elong	-8601 Jun 10 j 21:12	14°♈23'25	0°31'10
max. Earth dist.	-8601 Jun 09 j 19:21	14°♈09'05	6.34431 AU
morning rise	-8601 Jun 23 j 20:57	17°♈15'48	
	-8601 Aug 28 j 07:42	0°♉	
retrograde	-8601 Oct 22 j 07:17	4°♉27'52	
	-8601 Dec 18 j 06:19	30°℞♈	
opposition	-8601 Dec 21 j 10:46	29°♈35'24	1°18'42
min. Earth dist.	-8601 Dec 22 j 08:32	29°♈28'23	4.35496 AU
direct	-8600 Feb 21 j 22:07	24°♈33'17	
	-8600 Apr 25 j 08:19	0°♉	
evening set	-8600 Jun 28 j 14:05	12°♉37'17	
	-8600 Jul 09 j 07:16	15°♉	
max. Earth dist.	-8600 Jul 09 j 20:49	15°♉07'33	6.35229 AU
conjunction	-8600 Jul 11 j 07:34	15°♉26'53	1°13'40
minimum elong	-8600 Jul 11 j 07:29	15°♉26'51	1°14'01
morning rise	-8600 Jul 23 j 22:13	18°♉15'06	
	-8600 Sep 20 j 18:02	0°♊	
retrograde	-8600 Nov 22 j 01:50	5°♊33'22	
opposition	-8599 Jan 21 j 20:21	0°♊41'48	2°07'51
min. Earth dist.	-8599 Jan 22 j 21:08	0°♊33'55	4.33994 AU
	-8599 Jan 27 j 08:05	30°℞♉	
direct	-8599 Mar 25 j 08:38	25°♉42'23	
	-8599 May 19 j 20:19	0°♊	
evening set	-8599 Jul 29 j 19:11	13°♊45'23	
max. Earth dist.	-8599 Aug 09 j 22:17	16°♊15'32	6.31429 AU
conjunction	-8599 Aug 11 j 06:04	16°♊33'28	1°35'06
minimum elong	-8599 Aug 11 j 06:03	16°♊33'27	1°35'37
morning rise	-8599 Aug 23 j 15:17	19°♊20'53	
	-8599 Oct 14 j 03:23	0°♋	
retrograde	-8599 Dec 24 j 22:38	7°♋07'08	
opposition	-8598 Feb 24 j 04:32	2°♋14'39	2°20'26
min. Earth dist.	-8598 Feb 25 j 01:18	2°♋08'05	4.28205 AU
	-8598 Mar 14 j 13:37	30°℞♊	
direct	-8598 Apr 27 j 02:28	27°♊18'17	
	-8598 Jun 08 j 21:49	0°♋	
evening set	-8598 Aug 30 j 02:23	15°♋28'18	
conjunction	-8598 Sep 11 j 12:24	18°♋18'55	1°28'37
minimum elong	-8598 Sep 11 j 12:27	18°♋18'57	1°29'11
max. Earth dist.	-8598 Sep 10 j 14:02	18°♋06'05	6.24082 AU
morning rise	-8598 Sep 23 j 22:56	21°♋09'54	
	-8598 Nov 03 j 20:26	0°♌	
retrograde	-8597 Jan 28 j 06:48	9°♌39'20	
opposition	-8597 Mar 30 j 16:20	4°♌44'07	1°50'04
min. Earth dist.	-8597 Mar 31 j 01:56	4°♌41'03	4.19751 AU
	-8597 May 20 j 07:51	30°℞♋	
direct	-8597 May 30 j 11:27	29°♋50'08	
	-8597 Jun 09 j 14:33	0°♌	
	-8597 Sep 17 j 03:14	15°♌	
evening set	-8597 Oct 01 j 06:04	18°♌13'50	
conjunction	-8597 Oct 13 j 21:41	21°♌10'31	0°54'06
minimum elong	-8597 Oct 13 j 21:45	21°♌10'34	0°54'30
max. Earth dist.	-8597 Oct 13 j 18:38	21°♌08'45	6.15340 AU
morning rise	-8597 Oct 26 j 15:18	24°♌08'28	
	-8597 Nov 21 j 14:39	0°♍	
retrograde	-8596 Mar 04 j 00:37	13°♍25'20	
opposition	-8596 May 04 j 04:32	8°♍26'21	0°41'59
min. Earth dist.	-8596 May 03 j 23:42	8°♍27'55	4.11324 AU
direct	-8596 Jul 02 j 16:28	3°♍33'28	
evening set	-8596 Nov 02 j 22:58	22°♍14'57	
conjunction	-8596 Nov 15 j 23:16	25°♍18'44	0°00'26
minimum elong	-8596 Nov 15 j 23:17	25°♍18'44	0°00'33
behind sun begin	-8596 Nov 15 j 15:09	25°♍13'57	
behind sun end	-8596 Nov 16 j 07:26	25°♍23'31	
max. Earth dist.	-8596 Nov 16 j 15:37	25°♍28'21	6.08059 AU
desc. node	-8596 Nov 18 j 21:39	26°♍00'13	
morning rise	-8596 Nov 29 j 03:08	28°♍24'25	
	-8596 Dec 05 j 23:23	0°♎	
retrograde	-8595 Apr 09 j 12:34	18°♎17'54	
min. Earth dist.	-8595 Jun 08 j 10:09	13°♎21'14	4.05852 AU
opposition	-8595 Jun 09 j 04:32	13°♎15'06	-0°43'11
direct	-8595 Aug 06 j 15:30	8°♎21'16	
evening set	-8595 Dec 08 j 11:00	27°♎20'21	
	-8595 Dec 19 j 18:26	0°♏	
conjunction	-8595 Dec 21 j 19:57	0°♏29'12	-0°54'26
minimum elong	-8595 Dec 21 j 19:52	0°♏29'09	0°54'38
max. Earth dist.	-8595 Dec 23 j 05:59	0°♏49'16	6.04862 AU
morning rise	-8594 Jan 04 j 08:07	3°♏39'48	
	-8594 Feb 25 j 11:09	15°♏	
retrograde	-8594 May 16 j 01:03	23°♏43'34	
opposition	-8594 Jul 14 j 22:59	18°♏38'36	-1°53'32
min. Earth dist.	-8594 Jul 13 j 23:18	18°♏46'38	4.05381 AU
	-8594 Aug 14 j 07:11	15°℞♏	
direct	-8594 Sep 11 j 01:35	13°♏42'05	
	-8594 Oct 08 j 21:05	15°♏	
	-8593 Jan 01 j 20:49	0°♐	
evening set	-8593 Jan 14 j 06:10	2°♐50'54	
conjunction	-8593 Jan 27 j 20:41	6°♐01'02	-1°29'28
minimum elong	-8593 Jan 27 j 20:37	6°♐01'00	1°29'56
max. Earth dist.	-8593 Jan 29 j 10:10	6°♐22'53	6.07007 AU
morning rise	-8593 Feb 10 j 13:32	9°♐12'14	
retrograde	-8593 Jun 20 j 10:08	28°♐53'21	
opposition	-8593 Aug 18 j 19:42	23°♐48'39	-2°21'29
min. Earth dist.	-8593 Aug 17 j 21:41	23°♐56'11	4.10046 AU
direct	-8593 Oct 16 j 07:13	18°♐48'41	
	-8592 Jan 15 j 04:23	0°♑	
evening set	-8592 Feb 20 j 04:37	7°♑53'32	
conjunction	-8592 Mar 04 j 21:54	11°♑01'50	-1°31'38
minimum elong	-8592 Mar 04 j 21:57	11°♑01'51	1°32'12
max. Earth dist.	-8592 Mar 06 j 01:23	11°♑17'35	6.13713 AU
morning rise	-8592 Mar 18 j 15:29	14°♑10'07	
	-8592 Jun 08 j 22:17	0°♒	
retrograde	-8592 Jul 23 j 08:58	3°♒04'31	
	-8592 Sep 05 j 16:11	30°℞♑	
opposition	-8592 Sep 20 j 11:30	28°♑02'26	-1°59'03
min. Earth dist.	-8592 Sep 20 j 00:15	28°♑06'15	4.18076 AU
direct	-8592 Nov 19 j 00:54	22°♑59'35	
	-8591 Jan 28 j 15:17	0°♒	
evening set	-8591 Mar 27 j 02:56	11°♒48'15	
conjunction	-8591 Apr 09 j 19:25	14°♒52'36	-1°02'14
minimum elong	-8591 Apr 09 j 19:30	14°♒52'39	1°02'41
max. Earth dist.	-8591 Apr 10 j 04:00	14°♒57'25	6.22470 AU
	-8591 Apr 10 j 08:34	15°♒	
morning rise	-8591 Apr 23 j 10:02	17°♒55'54	

Attention, astronomical year style is used: The year -8591 in astronomical counting style is the year 8592 BCE in historical counting style.

	-8591 Jun 21 j 22:00	0°♓	
retrograde	-8591 Aug 24 j 19:10	5°♓59'11	
opposition	-8591 Oct 23 j 01:28	1°♓00'54	-0°58'35
min. Earth dist.	-8591 Oct 23 j 02:22	1°♓00'36	4.26675 AU
	-8591 Oct 30 j 16:47	30°℞♒	
direct	-8591 Dec 22 j 20:16	25°♒56'45	
	-8590 Feb 14 j 01:34	0°♓	
evening set	-8590 Apr 30 j 11:27	14°♓25'00	
conjunction	-8590 May 13 j 22:19	17°♓23'56	-0°13'42
minimum elong	-8590 May 13 j 22:21	17°♓23'57	0°13'53
behind sun begin	-8590 May 13 j 18:14	17°♓21'41	
behind sun end	-8590 May 14 j 02:27	17°♓26'13	
max. Earth dist.	-8590 May 13 j 09:21	17°♓16'44	6.30335 AU
morning rise	-8590 May 27 j 06:08	20°♓21'14	
	-8590 Jul 12 j 22:56	0°♈	
asc. node	-8590 Aug 25 j 11:18	6°♈16'17	
retrograde	-8590 Sep 25 j 09:28	7°♈47'06	
opposition	-8590 Nov 24 j 00:43	2°♈52'27	0°17'41
min. Earth dist.	-8590 Nov 24 j 15:07	2°♈47'44	4.33151 AU
	-8590 Dec 17 j 09:59	30°℞♓	
direct	-8589 Jan 24 j 23:10	27°♓48'43	
	-8589 Mar 04 j 18:42	0°♈	
evening set	-8589 Jun 02 j 07:10	16°♈00'22	
max. Earth dist.	-8589 Jun 14 j 05:04	18°♈38'12	6.34913 AU
conjunction	-8589 Jun 15 j 09:04	18°♈53'43	0°38'00
minimum elong	-8589 Jun 15 j 09:01	18°♈53'41	0°38'06
morning rise	-8589 Jun 28 j 07:24	21°♈45'18	
	-8589 Aug 06 j 17:55	0°♉	
retrograde	-8589 Oct 26 j 16:43	8°♉56'31	
opposition	-8589 Dec 25 j 23:07	4°♉04'16	1°27'22
min. Earth dist.	-8589 Dec 26 j 21:24	3°♉57'05	4.35612 AU
	-8588 Feb 01 j 02:25	30°℞♈	
direct	-8588 Feb 26 j 11:03	29°♈02'26	
	-8588 Mar 22 j 23:51	0°♉	
	-8588 Jun 23 j 10:46	15°♉	
evening set	-8588 Jul 03 j 00:13	17°♉05'46	
max. Earth dist.	-8588 Jul 14 j 06:00	19°♉35'41	6.34960 AU
conjunction	-8588 Jul 15 j 16:31	19°♉54'57	1°18'10
minimum elong	-8588 Jul 15 j 16:27	19°♉54'54	1°18'33
morning rise	-8588 Jul 28 j 06:02	22°♉42'48	
	-8588 Aug 31 j 12:38	0°♊	
retrograde	-8588 Nov 26 j 15:24	10°♊03'50	
opposition	-8587 Jan 26 j 11:26	5°♊12'20	2°12'03
min. Earth dist.	-8587 Jan 27 j 12:45	5°♊04'17	4.33364 AU
direct	-8587 Mar 29 j 23:10	0°♊13'22	
evening set	-8587 Aug 03 j 04:37	18°♊17'10	
max. Earth dist.	-8587 Aug 14 j 06:32	20°♊47'05	6.30472 AU
conjunction	-8587 Aug 15 j 14:55	21°♊05'24	1°35'57
minimum elong	-8587 Aug 15 j 14:54	21°♊05'23	1°36'28
morning rise	-8587 Aug 28 j 00:04	23°♊53'08	
	-8587 Sep 25 j 01:12	0°♋	
retrograde	-8587 Dec 29 j 17:03	11°♋45'11	
opposition	-8586 Feb 28 j 23:43	6°♋52'25	2°18'46
min. Earth dist.	-8586 Mar 01 j 19:01	6°♋46'17	4.26992 AU
direct	-8586 May 01 j 17:53	1°♋56'25	
evening set	-8586 Sep 03 j 14:00	20°♋08'38	
max. Earth dist.	-8586 Sep 15 j 05:44	22°♋49'09	6.22738 AU
conjunction	-8586 Sep 16 j 00:38	23°♋00'01	1°25'20
minimum elong	-8586 Sep 16 j 00:41	23°♋00'04	1°25'51
morning rise	-8586 Sep 28 j 11:42	25°♋51'52	
	-8586 Oct 16 j 21:06	0°♌	
retrograde	-8585 Feb 02 j 07:12	14°♌28'31	
opposition	-8585 Apr 04 j 15:50	9°♌32'56	1°42'24
min. Earth dist.	-8585 Apr 04 j 23:50	9°♌30'23	4.18379 AU
direct	-8585 Jun 04 j 06:25	4°♌39'19	
	-8585 Aug 30 j 09:35	15°♌	
evening set	-8585 Oct 05 j 22:43	23°♌05'51	
conjunction	-8585 Oct 18 j 15:19	26°♌03'35	0°47'19
minimum elong	-8585 Oct 18 j 15:23	26°♌03'37	0°47'41
max. Earth dist.	-8585 Oct 18 j 14:03	26°♌02'50	6.14089 AU
morning rise	-8585 Oct 31 j 10:27	29°♌02'44	
	-8585 Nov 04 j 13:24	0°♍	
retrograde	-8584 Mar 09 j 03:22	18°♍26'02	
opposition	-8584 May 09 j 06:58	13°♍26'29	0°30'15
min. Earth dist.	-8584 May 08 j 23:01	13°♍29'05	4.10317 AU
direct	-8584 Jul 07 j 14:19	8°♍33'39	
desc. node	-8584 Sep 27 j 16:46	18°♍08'32	
evening set	-8584 Nov 07 j 21:31	27°♍17'43	
	-8584 Nov 19 j 09:20	0°♎	
conjunction	-8584 Nov 20 j 23:17	0°♎22'23	-0°07'50
minimum elong	-8584 Nov 20 j 23:16	0°♎22'23	0°07'47
behind sun begin	-8584 Nov 20 j 15:54	0°♎18'03	
behind sun end	-8584 Nov 21 j 06:38	0°♎26'42	
max. Earth dist.	-8584 Nov 21 j 20:19	0°♎34'48	6.07419 AU
morning rise	-8584 Dec 04 j 04:18	3°♎28'54	
retrograde	-8583 Apr 14 j 18:24	23°♎25'11	
min. Earth dist.	-8583 Jun 13 j 11:57	18°♎28'26	4.05664 AU
opposition	-8583 Jun 14 j 07:13	18°♎22'00	-0°54'47
direct	-8583 Aug 11 j 16:58	13°♎27'56	
	-8583 Dec 02 j 23:36	0°♏	
evening set	-8583 Dec 13 j 14:36	2°♏28'05	
conjunction	-8583 Dec 27 j 00:18	5°♏37'10	-1°00'58
minimum elong	-8583 Dec 27 j 00:13	5°♏37'07	1°01'14
max. Earth dist.	-8583 Dec 28 j 11:03	5°♏57'37	6.05116 AU
morning rise	-8582 Jan 09 j 13:25	8°♏47'58	
	-8582 Feb 05 j 20:27	15°♏	
retrograde	-8582 May 21 j 00:51	28°♏49'12	
opposition	-8582 Jul 19 j 22:08	23°♏44'07	-2°00'21
min. Earth dist.	-8582 Jul 18 j 21:14	23°♏52'35	4.06082 AU
direct	-8582 Sep 16 j 00:29	18°♏47'08	
	-8582 Dec 14 j 21:30	0°♐	
evening set	-8581 Jan 19 j 10:46	7°♐54'58	
conjunction	-8581 Feb 02 j 01:47	11°♐04'48	-1°31'49
minimum elong	-8581 Feb 02 j 01:45	11°♐04'46	1°32'19
max. Earth dist.	-8581 Feb 03 j 14:40	11°♐26'15	6.08065 AU
morning rise	-8581 Feb 15 j 18:46	14°♐15'33	
	-8581 May 06 j 03:06	0°♑	
retrograde	-8581 Jun 25 j 06:00	3°♑49'55	
	-8581 Aug 14 j 09:48	30°℞♐	
opposition	-8581 Aug 23 j 13:56	28°♐45'27	-2°21'10
min. Earth dist.	-8581 Aug 22 j 18:04	28°♐52'15	4.11336 AU
direct	-8581 Oct 21 j 05:27	23°♐45'01	
	-8581 Dec 25 j 08:17	0°♑	
evening set	-8580 Feb 25 j 05:51	12°♑47'02	
conjunction	-8580 Mar 09 j 23:17	15°♑54'47	-1°29'13
minimum elong	-8580 Mar 09 j 23:20	15°♑54'49	1°29'45
max. Earth dist.	-8580 Mar 11 j 00:52	16°♑09'23	6.15116 AU
morning rise	-8580 Mar 23 j 16:36	19°♑02'20	
	-8580 May 14 j 18:23	0°♒	
retrograde	-8580 Jul 27 j 21:25	7°♒48'43	
opposition	-8580 Sep 25 j 00:50	2°♒47'09	-1°52'27
min. Earth dist.	-8580 Sep 24 j 14:44	2°♒50'35	4.19451 AU
	-8580 Oct 16 j 20:08	30°℞♑	
direct	-8580 Nov 23 j 17:31	27°♑44'02	

Attention, astronomical year style is used: The year -8579 in astronomical counting style is the year 8580 BCE in historical counting style.

	-8579 Jan 01 j 03:17	0°♒	
	-8579 Mar 25 j 05:25	15°♒	
evening set	-8579 Mar 31 j 22:53	16°♒29'32	
conjunction	-8579 Apr 14 j 14:43	19°♒33'09	-0°56'19
minimum elong	-8579 Apr 14 j 14:48	19°♒33'12	0°56'44
max. Earth dist.	-8579 Apr 14 j 18:34	19°♒35'19	6.23709 AU
morning rise	-8579 Apr 28 j 04:44	22°♒35'40	
	-8579 Jun 01 j 18:39	0°♓	
retrograde	-8579 Aug 29 j 05:44	10°♓32'51	
opposition	-8579 Oct 27 j 11:56	5°♓35'08	-0°48'29
min. Earth dist.	-8579 Oct 27 j 16:05	5°♓33'45	4.27663 AU
direct	-8579 Dec 27 j 12:13	0°♓30'54	
evening set	-8578 May 05 j 02:14	18°♓57'01	
conjunction	-8578 May 18 j 12:13	21°♓55'18	-0°06'26
minimum elong	-8578 May 18 j 12:14	21°♓55'19	0°06'35
behind sun begin	-8578 May 18 j 04:34	21°♓51'05	
behind sun end	-8578 May 18 j 19:54	21°♓59'33	
max. Earth dist.	-8578 May 17 j 21:08	21°♓46'57	6.31000 AU
morning rise	-8578 May 31 j 18:46	24°♓51'51	
	-8578 Jun 24 j 14:54	0°♈	
asc. node	-8578 Jul 05 j 20:47	2°♈17'08	
retrograde	-8578 Sep 29 j 17:01	12°♈15'06	
opposition	-8578 Nov 28 j 10:38	7°♈20'52	0°28'10
min. Earth dist.	-8578 Nov 29 j 01:52	7°♈15'54	4.33467 AU
direct	-8577 Jan 29 j 10:22	2°♈17'20	
evening set	-8577 Jun 06 j 18:36	20°♈28'30	
conjunction	-8577 Jun 19 j 19:04	23°♈21'18	0°44'31
minimum elong	-8577 Jun 19 j 19:01	23°♈21'15	0°44'41
max. Earth dist.	-8577 Jun 18 j 12:50	23°♈04'31	6.34849 AU
morning rise	-8577 Jul 02 j 16:13	26°♈12'24	
	-8577 Jul 20 j 03:43	0°♉	
retrograde	-8577 Oct 31 j 04:42	13°♉24'49	
opposition	-8577 Dec 30 j 11:33	8°♉32'49	1°35'26
min. Earth dist.	-8577 Dec 31 j 11:30	8°♉25'08	4.35195 AU
direct	-8576 Mar 02 j 00:47	3°♉31'21	
	-8576 Jun 06 j 13:08	15°♉	
evening set	-8576 Jul 07 j 10:04	21°♉35'34	
max. Earth dist.	-8576 Jul 18 j 14:28	24°♉05'04	6.34201 AU
conjunction	-8576 Jul 20 j 01:22	24°♉24'35	1°22'10
minimum elong	-8576 Jul 20 j 01:18	24°♉24'33	1°22'34
morning rise	-8576 Aug 01 j 14:02	27°♉12'22	
	-8576 Aug 14 j 06:55	0°♊	
retrograde	-8576 Dec 01 j 05:53	14°♊37'50	
opposition	-8575 Jan 31 j 03:50	9°♊46'13	2°15'28
min. Earth dist.	-8575 Feb 01 j 03:43	9°♊38'38	4.32354 AU
direct	-8575 Apr 03 j 12:24	4°♊47'41	
evening set	-8575 Aug 07 j 15:20	22°♊53'18	
max. Earth dist.	-8575 Aug 18 j 19:39	25°♊24'59	6.29295 AU
conjunction	-8575 Aug 20 j 01:21	25°♊41'50	1°36'10
minimum elong	-8575 Aug 20 j 01:21	25°♊41'50	1°36'43
morning rise	-8575 Sep 01 j 10:19	28°♊29'59	
	-8575 Sep 08 j 02:48	0°♋	
retrograde	-8574 Jan 03 j 14:22	16°♋28'20	
opposition	-8574 Mar 05 j 20:53	11°♋35'16	2°16'08
min. Earth dist.	-8574 Mar 06 j 15:09	11°♋29'28	4.25728 AU
direct	-8574 May 06 j 12:03	6°♋39'41	
evening set	-8574 Sep 08 j 03:20	24°♋53'48	
conjunction	-8574 Sep 20 j 14:25	27°♋45'56	1°21'24
minimum elong	-8574 Sep 20 j 14:29	27°♋45'58	1°21'54
max. Earth dist.	-8574 Sep 19 j 21:18	27°♋36'03	6.21498 AU
	-8574 Sep 30 j 07:05	0°♌	

morning rise	-8574 Oct 03 j 02:30	0°♌38'42	
	-8574 Dec 14 j 04:59	15°♌	
retrograde	-8573 Feb 07 j 07:20	19°♌21'54	
	-8573 Apr 05 j 05:42	15°℞♌	
opposition	-8573 Apr 09 j 16:47	14°♌25'41	1°33'52
min. Earth dist.	-8573 Apr 09 j 21:21	14°♌24'13	4.17247 AU
direct	-8573 Jun 09 j 02:22	9°♌32'15	
	-8573 Aug 08 j 23:30	15°♌	
evening set	-8573 Oct 10 j 16:12	28°♌00'27	
	-8573 Oct 19 j 05:08	0°♍	
conjunction	-8573 Oct 23 j 10:05	0°♍59'07	0°40'07
minimum elong	-8573 Oct 23 j 10:08	0°♍59'09	0°40'27
max. Earth dist.	-8573 Oct 23 j 13:38	1°♍01'11	6.13171 AU
morning rise	-8573 Nov 05 j 06:23	3°♍59'13	
retrograde	-8572 Mar 14 j 08:05	23°♍27'21	
opposition	-8572 May 14 j 09:33	18°♍27'13	0°18'15
min. Earth dist.	-8572 May 14 j 00:19	18°♍30'14	4.09671 AU
direct	-8572 Jul 12 j 14:24	13°♍34'18	
desc. node	-8572 Aug 06 j 22:21	14°♍37'45	
	-8572 Nov 02 j 20:04	0°♎	
evening set	-8572 Nov 12 j 20:18	2°♎19'41	
conjunction	-8572 Nov 25 j 23:06	5°♎24'58	-0°15'57
minimum elong	-8572 Nov 25 j 23:05	5°♎24'57	0°15'55
behind sun begin	-8572 Nov 25 j 21:56	5°♎24'17	
behind sun end	-8572 Nov 26 j 00:14	5°♎25'38	
max. Earth dist.	-8572 Nov 26 j 21:46	5°♎38'19	6.07083 AU
morning rise	-8572 Dec 09 j 05:32	8°♎32'12	
retrograde	-8571 Apr 19 j 20:29	28°♎29'47	
min. Earth dist.	-8571 Jun 18 j 10:53	23°♎33'21	4.05692 AU
opposition	-8571 Jun 19 j 08:15	23°♎26'12	-1°05'54
direct	-8571 Aug 16 j 15:17	18°♎31'48	
	-8571 Nov 15 j 06:16	0°♏	
evening set	-8571 Dec 18 j 17:20	7°♏32'36	
conjunction	-8570 Jan 01 j 03:57	10°♏41'52	-1°07'02
minimum elong	-8570 Jan 01 j 03:52	10°♏41'49	1°07'21
max. Earth dist.	-8570 Jan 02 j 15:54	11°♏02'59	6.05484 AU
morning rise	-8570 Jan 14 j 17:41	13°♏52'43	
	-8570 Jan 19 j 13:34	15°♏	
	-8570 Apr 05 j 11:39	0°♐	
retrograde	-8570 May 26 j 00:59	3°♐51'10	
	-8570 Jul 15 j 16:32	30°℞♏	
opposition	-8570 Jul 24 j 20:00	28°♏45'59	-2°06'16
min. Earth dist.	-8570 Jul 23 j 20:13	28°♏54'06	4.06762 AU
direct	-8570 Sep 21 j 00:06	23°♏48'33	
	-8570 Nov 23 j 23:13	0°♐	
evening set	-8569 Jan 24 j 14:14	12°♐55'36	
conjunction	-8569 Feb 07 j 05:46	16°♐05'14	-1°33'32
minimum elong	-8569 Feb 07 j 05:44	16°♐05'13	1°34'03
max. Earth dist.	-8569 Feb 08 j 18:16	16°♐26'24	6.08991 AU
morning rise	-8569 Feb 20 j 22:57	19°♐15'36	
	-8569 Apr 11 j 21:26	0°♑	
retrograde	-8569 Jun 30 j 00:02	8°♑43'46	
opposition	-8569 Aug 28 j 07:19	3°♑39'39	-2°19'57
min. Earth dist.	-8569 Aug 27 j 12:04	3°♑46'14	4.12433 AU
	-8569 Sep 27 j 12:25	30°℞♐	
direct	-8569 Oct 26 j 01:02	28°♐38'49	
	-8569 Nov 23 j 22:08	0°♑	
evening set	-8568 Mar 01 j 06:50	17°♑38'49	
conjunction	-8568 Mar 15 j 00:09	20°♑46'04	-1°26'13
minimum elong	-8568 Mar 15 j 00:13	20°♑46'06	1°26'44
max. Earth dist.	-8568 Mar 15 j 21:29	20°♑58'12	6.16294 AU
morning rise	-8568 Mar 28 j 17:22	23°♑53'02	

Attention, astronomical year style is used: The year -8568 in astronomical counting style is the year 8569 BCE in historical counting style.

	-8568 Apr 25 j 13:24	0°♒	
retrograde	-8568 Aug 01 j 11:31	12°♒32'25	
opposition	-8568 Sep 29 j 14:25	7°♒31'22	-1°45'10
min. Earth dist.	-8568 Sep 29 j 07:03	7°♒33'52	4.20586 AU
direct	-8568 Nov 28 j 12:23	2°♒27'57	
	-8567 Mar 08 j 04:26	15°♒	
evening set	-8567 Apr 05 j 19:03	21°♒11'06	
conjunction	-8567 Apr 19 j 10:33	24°♒14'08	-0°50'01
minimum elong	-8567 Apr 19 j 10:38	24°♒14'11	0°50'23
max. Earth dist.	-8567 Apr 19 j 12:38	24°♒15'18	6.24740 AU
morning rise	-8567 May 02 j 23:39	27°♒15'54	
	-8567 May 15 j 09:41	0°♓	
retrograde	-8567 Sep 02 j 15:49	15°♓07'45	
opposition	-8567 Oct 31 j 23:21	10°♓10'37	-0°38'00
min. Earth dist.	-8567 Nov 01 j 04:36	10°♓08'52	4.28499 AU
direct	-8566 Jan 01 j 02:12	5°♓06'26	
evening set	-8566 May 09 j 17:48	23°♓30'45	
asc. node	-8566 May 15 j 04:56	24°♓43'10	
max. Earth dist.	-8566 May 22 j 07:33	26°♓17'49	6.31580 AU
conjunction	-8566 May 23 j 02:32	26°♓28'21	0°01'05
minimum elong	-8566 May 23 j 02:30	26°♓28'20	0°00'58
behind sun begin	-8566 May 22 j 18:20	26°♓23'49	
behind sun end	-8566 May 23 j 10:41	26°♓32'51	
morning rise	-8566 Jun 05 j 08:01	29°♓24'12	
	-8566 Jun 08 j 01:03	0°♈	
retrograde	-8566 Oct 04 j 04:15	16°♈45'19	
opposition	-8566 Dec 02 j 22:19	11°♈51'31	0°38'39
min. Earth dist.	-8566 Dec 03 j 15:49	11°♈45'48	4.33760 AU
direct	-8565 Feb 03 j 01:12	6°♈48'12	
evening set	-8565 Jun 11 j 06:39	24°♈58'42	
max. Earth dist.	-8565 Jun 22 j 23:33	27°♈34'06	6.34832 AU
conjunction	-8565 Jun 24 j 05:57	27°♈50'58	0°50'54
minimum elong	-8565 Jun 24 j 05:52	27°♈50'56	0°51'06
	-8565 Jul 03 j 22:31	0°♉	
morning rise	-8565 Jul 07 j 01:40	0°♉41'32	
	-8565 Sep 21 j 17:20	15°♉	
retrograde	-8565 Nov 04 j 15:26	17°♉55'06	
	-8565 Dec 19 j 09:50	15°℞♉	
opposition	-8564 Jan 04 j 01:01	13°♉03'18	1°43'05
min. Earth dist.	-8564 Jan 05 j 00:18	12°♉55'50	4.34909 AU
direct	-8564 Mar 06 j 12:56	8°♉02'18	
	-8564 May 18 j 01:57	15°♉	
evening set	-8564 Jul 11 j 20:33	26°♉06'49	
max. Earth dist.	-8564 Jul 23 j 00:02	28°♉36'08	6.33672 AU
conjunction	-8564 Jul 24 j 10:42	28°♉55'34	1°25'45
minimum elong	-8564 Jul 24 j 10:39	28°♉55'32	1°26'10
	-8564 Jul 29 j 05:44	0°♊	
morning rise	-8564 Aug 05 j 22:34	1°♊43'12	
retrograde	-8564 Dec 05 j 22:43	19°♊12'27	
opposition	-8563 Feb 04 j 20:53	14°♊20'48	2°18'06
min. Earth dist.	-8563 Feb 05 j 20:54	14°♊13'10	4.31630 AU
direct	-8563 Apr 08 j 04:35	9°♊22'45	
evening set	-8563 Aug 12 j 01:32	27°♊29'00	
max. Earth dist.	-8563 Aug 23 j 07:12	0°♋01'47	6.28438 AU
	-8563 Aug 23 j 04:03	0°♋	
conjunction	-8563 Aug 24 j 11:20	0°♋17'47	1°35'50
minimum elong	-8563 Aug 24 j 11:20	0°♋17'47	1°36'23
morning rise	-8563 Sep 05 j 20:21	3°♋06'18	
retrograde	-8562 Jan 08 j 08:43	21°♋09'56	
opposition	-8562 Mar 10 j 17:19	16°♋16'29	2°12'39
min. Earth dist.	-8562 Mar 11 j 08:43	16°♋11'35	4.24802 AU
direct	-8562 May 11 j 03:51	11°♋21'19	
evening set	-8562 Sep 12 j 15:28	29°♋36'16	
	-8562 Sep 14 j 08:50	0°♌	
conjunction	-8562 Sep 25 j 03:11	2°♌29'02	1°17'00
minimum elong	-8562 Sep 25 j 03:15	2°♌29'05	1°17'30
max. Earth dist.	-8562 Sep 24 j 13:46	2°♌21'17	6.20592 AU
morning rise	-8562 Oct 07 j 15:59	5°♌22'33	
	-8562 Nov 21 j 06:01	15°♌	
retrograde	-8561 Feb 12 j 07:09	24°♌11'10	
opposition	-8561 Apr 14 j 15:45	19°♌14'27	1°24'49
min. Earth dist.	-8561 Apr 14 j 19:10	19°♌13'21	4.16399 AU
	-8561 May 24 j 18:20	15°℞♌	
direct	-8561 Jun 13 j 22:48	14°♌21'12	
	-8561 Jul 03 j 23:45	15°♌	
	-8561 Oct 03 j 00:06	0°♍	
evening set	-8561 Oct 15 j 08:06	2°♍50'27	
conjunction	-8561 Oct 28 j 03:02	5°♍49'54	0°32'48
minimum elong	-8561 Oct 28 j 03:05	5°♍49'56	0°33'05
max. Earth dist.	-8561 Oct 28 j 08:36	5°♍53'09	6.12466 AU
morning rise	-8561 Nov 10 j 00:48	8°♍50'57	
retrograde	-8560 Mar 19 j 07:48	28°♍23'02	
opposition	-8560 May 19 j 08:59	23°♍22'21	0°06'22
min. Earth dist.	-8560 May 18 j 21:05	23°♍26'16	4.09168 AU
desc. node	-8560 Jun 17 j 16:44	19°♍55'04	
direct	-8560 Jul 17 j 09:41	18°♍29'21	
	-8560 Oct 16 j 13:18	0°♎	
evening set	-8560 Nov 17 j 16:52	7°♎16'01	
conjunction	-8560 Nov 30 j 20:53	10°♎21'56	-0°23'47
minimum elong	-8560 Nov 30 j 20:50	10°♎21'54	0°23'48
max. Earth dist.	-8560 Dec 01 j 21:51	10°♎36'39	6.06815 AU
morning rise	-8560 Dec 14 j 04:22	13°♎29'44	
	-8559 Mar 07 j 15:54	0°♏	
retrograde	-8559 Apr 24 j 21:17	3°♏28'35	
	-8559 Jun 12 j 05:27	30°℞♎	
min. Earth dist.	-8559 Jun 23 j 09:17	28°♎31'45	4.05681 AU
opposition	-8559 Jun 24 j 06:31	28°♎24'36	-1°16'17
direct	-8559 Aug 21 j 13:02	23°♎29'49	
	-8559 Oct 25 j 23:05	0°♏	
evening set	-8559 Dec 23 j 17:56	12°♏31'44	
	-8558 Jan 03 j 07:10	15°♏	
conjunction	-8558 Jan 06 j 05:23	15°♏41'12	-1°12'28
minimum elong	-8558 Jan 06 j 05:18	15°♏41'09	1°12'49
max. Earth dist.	-8558 Jan 07 j 18:07	16°♏02'45	6.05715 AU
morning rise	-8558 Jan 19 j 19:48	18°♏52'12	
	-8558 Mar 12 j 03:01	0°♐	
retrograde	-8558 May 30 j 22:05	8°♐48'11	
opposition	-8558 Jul 29 j 15:14	3°♐43'03	-2°11'10
min. Earth dist.	-8558 Jul 28 j 15:30	3°♐51'09	4.07244 AU
	-8558 Aug 29 j 15:24	30°℞♏	
direct	-8558 Sep 25 j 19:14	28°♏45'09	
	-8558 Oct 23 j 04:20	0°♐	
evening set	-8557 Jan 29 j 16:20	17°♐52'28	
conjunction	-8557 Feb 12 j 08:12	21°♐01'57	-1°34'32
minimum elong	-8557 Feb 12 j 08:11	21°♐01'57	1°35'04
max. Earth dist.	-8557 Feb 13 j 17:30	21°♐21'14	6.09660 AU
morning rise	-8557 Feb 26 j 01:43	24°♐12'07	
	-8557 Mar 23 j 23:11	0°♑	
retrograde	-8557 Jul 04 j 17:21	13°♑35'05	
opposition	-8557 Sep 01 j 23:16	8°♑31'16	-2°17'48
min. Earth dist.	-8557 Sep 01 j 05:51	8°♑37'14	4.13224 AU
direct	-8557 Oct 30 j 20:45	3°♑29'57	
evening set	-8556 Mar 06 j 06:47	22°♑29'05	

Attention, astronomical year style is used: The year -8556 in astronomical counting style is the year 8557 BCE in historical counting style.

conjunction	-8556 Mar 20 j 00:21	25°♑36'03	-1°22'38
minimum elong	-8556 Mar 20 j 00:26	25°♑36'05	1°23'10
max. Earth dist.	-8556 Mar 20 j 20:23	25°♑47'26	6.17170 AU
morning rise	-8556 Apr 02 j 17:11	28°♑42'31	
	-8556 Apr 08 j 11:09	0°♒	
	-8556 Jun 29 j 05:40	15°♒	
retrograde	-8556 Aug 06 j 01:34	17°♒15'57	
	-8556 Sep 12 j 16:03	15°℞♒	
opposition	-8556 Oct 04 j 03:50	12°♒15'26	-1°37'14
min. Earth dist.	-8556 Oct 03 j 21:49	12°♒17'28	4.21461 AU
direct	-8556 Dec 03 j 04:49	7°♒11'50	
	-8555 Feb 16 j 20:16	15°♒	
evening set	-8555 Apr 10 j 15:17	25°♒53'20	
conjunction	-8555 Apr 24 j 06:02	28°♒55'48	-0°43'22
minimum elong	-8555 Apr 24 j 06:06	28°♒55'50	0°43'42
max. Earth dist.	-8555 Apr 24 j 03:59	28°♒54'39	6.25558 AU
	-8555 Apr 29 j 00:48	0°♓	
morning rise	-8555 May 07 j 18:30	1°♓56'56	
retrograde	-8555 Sep 07 j 03:17	19°♓44'11	
opposition	-8555 Nov 05 j 11:28	14°♓47'29	-0°27'15
min. Earth dist.	-8555 Nov 05 j 18:42	14°♓45'05	4.29202 AU
direct	-8554 Jan 05 j 18:16	9°♓43'16	
asc. node	-8554 Mar 24 j 07:30	17°♓39'22	
evening set	-8554 May 14 j 09:40	28°♓05'57	
	-8554 May 23 j 00:06	0°♈	
conjunction	-8554 May 27 j 17:21	1°♈02'50	0°08'33
minimum elong	-8554 May 27 j 17:20	1°♈02'50	0°08'29
behind sun begin	-8554 May 27 j 10:13	0°♈58'54	
behind sun end	-8554 May 28 j 00:27	1°♈06'45	
max. Earth dist.	-8554 May 26 j 22:00	0°♈52'06	6.32131 AU
morning rise	-8554 Jun 09 j 21:25	3°♈57'56	
retrograde	-8554 Oct 08 j 13:51	21°♈16'46	
opposition	-8554 Dec 07 j 10:23	16°♈23'18	0°48'56
min. Earth dist.	-8554 Dec 08 j 04:09	16°♈17'32	4.34131 AU
direct	-8553 Feb 07 j 14:25	11°♈20'15	
evening set	-8553 Jun 15 j 18:51	29°♈29'25	
	-8553 Jun 18 j 02:19	0°♉	
max. Earth dist.	-8553 Jun 27 j 08:11	2°♉02'59	6.34968 AU
conjunction	-8553 Jun 28 j 16:35	2°♉21'00	0°57'00
minimum elong	-8553 Jun 28 j 16:31	2°♉20'57	0°57'14
morning rise	-8553 Jul 11 j 11:11	5°♉10'58	
	-8553 Aug 28 j 05:05	15°♉	
retrograde	-8553 Nov 09 j 04:16	22°♉25'05	
opposition	-8552 Jan 08 j 14:52	17°♉33'20	1°50'07
min. Earth dist.	-8552 Jan 09 j 15:14	17°♉25'33	4.34803 AU
	-8552 Jan 29 j 14:51	15°℞♉	
direct	-8552 Mar 11 j 04:09	12°♉32'38	
	-8552 Apr 21 j 13:40	15°♉	
	-8552 Jul 13 j 12:21	0°♊	
evening set	-8552 Jul 16 j 06:01	0°♊36'27	
max. Earth dist.	-8552 Jul 27 j 10:01	3°♊06'13	6.33298 AU
conjunction	-8552 Jul 28 j 19:22	3°♊24'55	1°28'49
minimum elong	-8552 Jul 28 j 19:18	3°♊24'53	1°29'17
morning rise	-8552 Aug 10 j 06:19	6°♊12'20	
retrograde	-8552 Dec 10 j 11:44	23°♊44'46	
opposition	-8551 Feb 09 j 13:05	18°♊52'55	2°19'55
min. Earth dist.	-8551 Feb 10 j 11:34	18°♊45'47	4.31011 AU
direct	-8551 Apr 12 j 17:54	13°♊55'16	
	-8551 Aug 07 j 09:32	0°♋	
evening set	-8551 Aug 16 j 10:54	2°♋01'49	
conjunction	-8551 Aug 28 j 20:27	4°♋50'49	1°34'56
minimum elong	-8551 Aug 28 j 20:28	4°♋50'50	1°35'29
max. Earth dist.	-8551 Aug 27 j 17:33	4°♋35'30	6.27603 AU
morning rise	-8551 Sep 10 j 05:36	7°♋39'44	
retrograde	-8550 Jan 13 j 04:30	25°♋48'39	
opposition	-8550 Mar 15 j 12:47	20°♋54'49	2°08'23
min. Earth dist.	-8550 Mar 16 j 03:52	20°♋50'01	4.23776 AU
direct	-8550 May 15 j 21:20	15°♋59'56	
	-8550 Aug 29 j 04:37	0°♌	
evening set	-8550 Sep 17 j 02:57	4°♌16'17	
conjunction	-8550 Sep 29 j 15:28	7°♌09'52	1°12'09
minimum elong	-8550 Sep 29 j 15:32	7°♌09'55	1°12'39
max. Earth dist.	-8550 Sep 29 j 03:59	7°♌03'13	6.19472 AU
morning rise	-8550 Oct 12 j 05:19	10°♌04'19	
	-8550 Nov 03 j 02:31	15°♌	
retrograde	-8549 Feb 17 j 05:10	28°♌59'10	
opposition	-8549 Apr 19 j 14:10	24°♌01'56	1°15'15
min. Earth dist.	-8549 Apr 19 j 14:59	24°♌01'40	4.15262 AU
direct	-8549 Jun 18 j 15:59	19°♌08'49	
	-8549 Sep 15 j 16:32	0°♍	
evening set	-8549 Oct 20 j 00:27	7°♍40'30	
conjunction	-8549 Nov 01 j 20:38	10°♍40'58	0°25'15
minimum elong	-8549 Nov 01 j 20:40	10°♍40'59	0°25'29
max. Earth dist.	-8549 Nov 02 j 04:49	10°♍45'46	6.11414 AU
morning rise	-8549 Nov 14 j 19:45	13°♍43'05	
	-8548 Feb 05 j 20:47	0°♎	
retrograde	-8548 Mar 24 j 11:13	3°♎20'40	
desc. node	-8548 Apr 28 j 06:45	1°♎29'27	
	-8548 May 11 j 09:58	30°℞♍	
opposition	-8548 May 24 j 09:21	28°♍19'28	-0°05'40
min. Earth dist.	-8548 May 23 j 20:38	28°♍23'39	4.08276 AU
direct	-8548 Jul 22 j 07:19	23°♍26'17	
	-8548 Sep 26 j 07:32	0°♎	
evening set	-8548 Nov 22 j 15:39	12°♎16'00	
conjunction	-8548 Dec 05 j 20:54	15°♎22'44	-0°31'33
minimum elong	-8548 Dec 05 j 20:51	15°♎22'42	0°31'38
max. Earth dist.	-8548 Dec 07 j 00:18	15°♎38'53	6.06165 AU
morning rise	-8548 Dec 19 j 05:37	18°♎31'21	
	-8547 Feb 10 j 03:08	0°♏	
retrograde	-8547 Apr 29 j 23:58	8°♏32'33	
min. Earth dist.	-8547 Jun 28 j 08:25	3°♏35'48	4.05362 AU
opposition	-8547 Jun 29 j 06:37	3°♏28'20	-1°26'20
	-8547 Jul 28 j 00:39	30°℞♎	
direct	-8547 Aug 26 j 10:25	28°♎33'13	
	-8547 Sep 24 j 21:06	0°♏	
	-8547 Dec 17 j 13:22	15°♏	
evening set	-8547 Dec 28 j 22:06	17°♏37'40	
conjunction	-8546 Jan 11 j 10:17	20°♏47'28	-1°17'30
minimum elong	-8546 Jan 11 j 10:12	20°♏47'25	1°17'52
max. Earth dist.	-8546 Jan 12 j 22:15	21°♏08'33	6.05725 AU
morning rise	-8546 Jan 25 j 01:31	23°♏58'44	
	-8546 Feb 20 j 15:20	0°♐	
retrograde	-8546 Jun 04 j 22:17	13°♐52'54	
opposition	-8546 Aug 03 j 13:28	8°♐47'50	-2°15'15
min. Earth dist.	-8546 Aug 02 j 14:05	8°♐55'49	4.07590 AU
direct	-8546 Sep 30 j 19:10	3°♐49'27	
evening set	-8545 Feb 03 j 21:54	22°♐57'29	
conjunction	-8545 Feb 17 j 14:25	26°♐06'56	-1°34'53
minimum elong	-8545 Feb 17 j 14:26	26°♐06'56	1°35'25
max. Earth dist.	-8545 Feb 19 j 00:09	26°♐26'25	6.10332 AU
morning rise	-8545 Mar 03 j 07:59	29°♐16'49	
	-8545 Mar 06 j 11:32	0°♑	
retrograde	-8545 Jul 09 j 14:45	18°♑34'17	
opposition	-8545 Sep 06 j 18:32	13°♑30'56	-2°14'36

Attention, astronomical year style is used: The year -8545 in astronomical counting style is the year 8546 BCE in historical counting style.

min. Earth dist.	-8545 Sep 06 j 02:14	13°♑36'30	4.14165 AU
direct	-8545 Nov 04 j 18:56	8°♑29'20	
evening set	-8544 Mar 11 j 10:06	27°♑26'52	
	-8544 Mar 22 j 16:45	0°♒	
conjunction	-8544 Mar 25 j 03:27	0°♒33'18	-1°18'24
minimum elong	-8544 Mar 25 j 03:32	0°♒33'21	1°18'55
max. Earth dist.	-8544 Mar 25 j 20:20	0°♒42'52	6.18333 AU
morning rise	-8544 Apr 07 j 20:05	3°♒39'10	
	-8544 Jun 01 j 12:26	15°♒	
retrograde	-8544 Aug 10 j 16:24	22°♒05'26	
opposition	-8544 Oct 08 j 19:38	17°♒05'28	-1°28'32
min. Earth dist.	-8544 Oct 08 j 14:44	17°♒07'07	4.22756 AU
	-8544 Oct 24 j 19:39	15°℞♒	
direct	-8544 Dec 08 j 00:45	12°♒01'43	
	-8543 Jan 21 j 16:33	15°♒	
	-8543 Apr 12 j 12:59	0°♓	
evening set	-8543 Apr 15 j 13:04	0°♓39'52	
conjunction	-8543 Apr 29 j 03:07	3°♓41'28	-0°36'24
minimum elong	-8543 Apr 29 j 03:11	3°♓41'30	0°36'42
max. Earth dist.	-8543 Apr 29 j 00:03	3°♓39'45	6.26937 AU
morning rise	-8543 May 12 j 14:27	6°♓41'36	
retrograde	-8543 Sep 11 j 14:36	24°♓22'20	
opposition	-8543 Nov 10 j 00:28	19°♓26'12	-0°16'21
min. Earth dist.	-8543 Nov 10 j 08:53	19°♓23'25	4.30544 AU
direct	-8542 Jan 10 j 11:04	14°♓22'08	
asc. node	-8542 Feb 01 j 02:02	15°♓04'43	
	-8542 May 06 j 17:24	0°♈	
evening set	-8542 May 19 j 00:54	2°♈40'42	
max. Earth dist.	-8542 May 31 j 08:54	5°♈24'14	6.33329 AU
conjunction	-8542 Jun 01 j 07:06	5°♈36'31	0°15'50
minimum elong	-8542 Jun 01 j 07:04	5°♈36'30	0°15'50
behind sun begin	-8542 Jun 01 j 06:03	5°♈35'56	
behind sun end	-8542 Jun 01 j 08:05	5°♈37'04	
morning rise	-8542 Jun 14 j 09:53	8°♈30'34	
retrograde	-8542 Oct 12 j 22:41	25°♈45'23	
opposition	-8542 Dec 11 j 21:40	20°♈52'13	0°58'41
min. Earth dist.	-8542 Dec 12 j 16:46	20°♈46'01	4.35107 AU
direct	-8541 Feb 12 j 04:55	15°♈49'24	
	-8541 Jun 02 j 01:34	0°♉	
evening set	-8541 Jun 20 j 04:18	3°♉55'07	
max. Earth dist.	-8541 Jul 01 j 16:47	6°♉28'05	6.35638 AU
conjunction	-8541 Jul 03 j 00:44	6°♉45'49	1°02'35
minimum elong	-8541 Jul 03 j 00:40	6°♉45'47	1°02'51
morning rise	-8541 Jul 15 j 17:48	9°♉34'56	
	-8541 Aug 09 j 22:38	15°♉	
retrograde	-8541 Nov 13 j 11:24	26°♉48'11	
opposition	-8540 Jan 13 j 01:42	21°♉56'33	1°56'13
min. Earth dist.	-8540 Jan 14 j 02:08	21°♉48'45	4.35127 AU
direct	-8540 Mar 15 j 15:20	16°♉56'15	
	-8540 Jun 27 j 14:57	0°♊	
evening set	-8540 Jul 20 j 12:01	4°♊58'04	
max. Earth dist.	-8540 Jul 31 j 13:27	7°♊26'35	6.33225 AU
conjunction	-8540 Aug 02 j 00:15	7°♊46'07	1°31'14
minimum elong	-8540 Aug 02 j 00:13	7°♊46'06	1°31'44
morning rise	-8540 Aug 14 j 10:40	10°♊33'18	
retrograde	-8540 Dec 14 j 23:06	28°♊08'16	
opposition	-8539 Feb 14 j 01:34	23°♊16'15	2°20'47
min. Earth dist.	-8539 Feb 15 j 00:43	23°♊08'54	4.30536 AU
direct	-8539 Apr 17 j 05:55	18°♊18'54	
	-8539 Jul 22 j 06:26	0°♋	
evening set	-8539 Aug 20 j 15:56	6°♋25'27	
max. Earth dist.	-8539 Sep 01 j 00:05	9°♋00'14	6.26764 AU
conjunction	-8539 Sep 02 j 01:38	9°♋14'49	1°33'31
minimum elong	-8539 Sep 02 j 01:40	9°♋14'50	1°34'03
morning rise	-8539 Sep 14 j 10:56	12°♋04'10	
	-8538 Jan 03 j 14:21	0°♌	
retrograde	-8538 Jan 17 j 18:19	0°♌18'37	
	-8538 Jan 31 j 23:35	30°℞♋	
opposition	-8538 Mar 20 j 04:16	25°♋24'25	2°03'29
min. Earth dist.	-8538 Mar 20 j 17:55	25°♋20'05	4.22623 AU
direct	-8538 May 20 j 08:31	20°♋29'49	
	-8538 Aug 12 j 01:36	0°♌	
evening set	-8538 Sep 21 j 11:10	8°♌48'21	
conjunction	-8538 Oct 04 j 00:24	11°♌42'51	1°07'02
minimum elong	-8538 Oct 04 j 00:29	11°♌42'53	1°07'29
max. Earth dist.	-8538 Oct 03 j 13:54	11°♌36'45	6.18110 AU
morning rise	-8538 Oct 16 j 15:22	14°♌38'23	
	-8538 Oct 18 j 04:56	15°♌	
	-8537 Jan 02 j 20:17	0°♍	
retrograde	-8537 Feb 22 j 02:38	3°♍40'37	
	-8537 Apr 14 j 08:04	30°℞♌	
opposition	-8537 Apr 24 j 09:28	28°♌42'51	1°05'29
min. Earth dist.	-8537 Apr 24 j 09:28	28°♌42'52	4.13775 AU
direct	-8537 Jun 23 j 07:33	23°♌49'46	
	-8537 Aug 26 j 20:27	0°♍	
evening set	-8537 Oct 24 j 14:57	12°♍25'33	
conjunction	-8537 Nov 06 j 12:32	15°♍27'14	0°17'43
minimum elong	-8537 Nov 06 j 12:34	15°♍27'15	0°17'56
max. Earth dist.	-8537 Nov 06 j 23:26	15°♍33'38	6.09965 AU
morning rise	-8537 Nov 19 j 13:06	18°♍30'39	
	-8536 Jan 11 j 18:22	0°♎	
desc. node	-8536 Mar 10 j 00:26	7°♎39'24	
retrograde	-8536 Mar 29 j 12:13	8°♎15'02	
opposition	-8536 May 29 j 07:49	3°♎13'23	-0°17'25
min. Earth dist.	-8536 May 28 j 17:29	3°♎18'07	4.07017 AU
	-8536 Jun 25 j 00:23	30°℞♍	
direct	-8536 Jul 27 j 01:08	28°♍20'05	
	-8536 Aug 27 j 20:52	0°♎	
evening set	-8536 Nov 27 j 14:08	17°♎14'27	
conjunction	-8536 Dec 10 j 20:31	20°♎22'07	-0°38'58
minimum elong	-8536 Dec 10 j 20:27	20°♎22'05	0°39'06
max. Earth dist.	-8536 Dec 12 j 00:52	20°♎38'52	6.05200 AU
morning rise	-8536 Dec 24 j 06:34	23°♎31'42	
	-8535 Jan 21 j 17:23	0°♏	
retrograde	-8535 May 05 j 01:56	13°♏36'19	
min. Earth dist.	-8535 Jul 03 j 06:55	8°♏39'40	4.04809 AU
opposition	-8535 Jul 04 j 06:18	8°♏31'46	-1°35'38
direct	-8535 Aug 31 j 08:55	3°♏36'14	
	-8535 Nov 29 j 16:41	15°♏	
evening set	-8534 Jan 03 j 02:32	22°♏43'53	
conjunction	-8534 Jan 16 j 15:45	25°♏54'07	-1°21'52
minimum elong	-8534 Jan 16 j 15:40	25°♏54'04	1°22'18
max. Earth dist.	-8534 Jan 18 j 06:20	26°♏16'44	6.05634 AU
morning rise	-8534 Jan 30 j 07:27	29°♏05'37	
	-8534 Feb 03 j 05:20	0°♐	
retrograde	-8534 Jun 09 j 23:49	18°♐57'41	
opposition	-8534 Aug 08 j 11:38	13°♐52'39	-2°18'14
min. Earth dist.	-8534 Aug 07 j 12:41	14°♐00'30	4.07984 AU
direct	-8534 Oct 05 j 18:50	8°♐53'47	
evening set	-8533 Feb 09 j 03:49	28°♐01'56	
	-8533 Feb 17 j 17:09	0°♑	
conjunction	-8533 Feb 22 j 20:33	1°♑11'08	-1°34'28
minimum elong	-8533 Feb 22 j 20:34	1°♑11'08	1°35'01
max. Earth dist.	-8533 Feb 24 j 04:34	1°♑29'35	6.11143 AU

Attention, astronomical year style is used: The year -8533 in astronomical counting style is the year 8534 BCE in historical counting style.

morning rise	-8533 Mar 08 j 14:22	4°♑20'41	
retrograde	-8533 Jul 14 j 08:43	23°♑31'31	
opposition	-8533 Sep 11 j 12:55	18°♑28'25	-2°10'25
min. Earth dist.	-8533 Sep 10 j 21:00	18°♑33'51	4.15288 AU
direct	-8533 Nov 09 j 16:23	13°♑26'21	
	-8532 Mar 05 j 22:47	0°♒	
evening set	-8532 Mar 16 j 12:06	2°♒21'14	
conjunction	-8532 Mar 30 j 05:18	5°♒27'02	-1°13'39
minimum elong	-8532 Mar 30 j 05:23	5°♒27'05	1°14'08
max. Earth dist.	-8532 Mar 30 j 20:20	5°♒35'32	6.19662 AU
morning rise	-8532 Apr 12 j 21:20	8°♒32'05	
	-8532 May 12 j 14:33	15°♒	
retrograde	-8532 Aug 15 j 06:59	26°♒50'39	
opposition	-8532 Oct 13 j 10:19	21°♒51'10	-1°19'19
min. Earth dist.	-8532 Oct 13 j 07:41	21°♒52'03	4.24108 AU
direct	-8532 Dec 12 j 20:29	16°♒47'15	
	-8531 Mar 26 j 12:56	0°♓	
evening set	-8531 Apr 20 j 08:55	5°♓21'42	
conjunction	-8531 May 03 j 22:04	8°♓22'26	-0°29'15
minimum elong	-8531 May 03 j 22:07	8°♓22'27	0°29'31
max. Earth dist.	-8531 May 03 j 15:53	8°♓18'59	6.28180 AU
morning rise	-8531 May 17 j 08:22	11°♓21'38	
retrograde	-8531 Sep 15 j 23:59	28°♓56'47	
opposition	-8531 Nov 14 j 12:28	24°♓01'05	-0°05'25
min. Earth dist.	-8531 Nov 14 j 22:17	23°♓57'50	4.31573 AU
asc. node	-8531 Dec 12 j 00:48	20°♓42'14	
direct	-8530 Jan 15 j 02:27	18°♓57'04	
	-8530 Apr 19 j 10:13	0°♈	
evening set	-8530 May 23 j 15:13	7°♈12'50	
conjunction	-8530 Jun 05 j 20:04	10°♈07'47	0°23'05
minimum elong	-8530 Jun 05 j 20:02	10°♈07'46	0°23'06
max. Earth dist.	-8530 Jun 04 j 20:24	9°♈54'42	6.34062 AU
morning rise	-8530 Jun 18 j 21:22	13°♈00'58	
	-8530 Oct 05 j 10:09	0°♉	
retrograde	-8530 Oct 17 j 08:12	0°♉13'40	
	-8530 Oct 29 j 05:43	30°♈	
opposition	-8530 Dec 16 j 09:16	25°♈20'52	1°08'14
min. Earth dist.	-8530 Dec 17 j 05:55	25°♈14'12	4.35497 AU
direct	-8529 Feb 16 j 19:01	20°♈18'23	
	-8529 May 15 j 11:12	0°♉	
evening set	-8529 Jun 24 j 14:41	8°♉22'47	
max. Earth dist.	-8529 Jul 05 j 23:27	10°♉53'52	6.35623 AU
conjunction	-8529 Jul 07 j 09:42	11°♉12'54	1°07'56
minimum elong	-8529 Jul 07 j 09:37	11°♉12'52	1°08'14
morning rise	-8529 Jul 20 j 01:43	14°♉01'33	
	-8529 Jul 24 j 11:51	15°♉	
	-8529 Oct 20 j 05:59	0°♊	
retrograde	-8529 Nov 17 j 23:11	1°♊16'31	
	-8529 Dec 16 j 20:25	30°♉	
opposition	-8528 Jan 17 j 15:21	26°♉24'57	2°01'55
min. Earth dist.	-8528 Jan 18 j 16:20	26°♉16'59	4.34734 AU
direct	-8528 Mar 20 j 04:43	21°♉25'01	
	-8528 Jun 09 j 12:47	0°♊	
evening set	-8528 Jul 24 j 20:45	9°♊27'14	
max. Earth dist.	-8528 Aug 04 j 23:18	11°♊56'38	6.32475 AU
conjunction	-8528 Aug 06 j 08:24	12°♊15'16	1°33'16
minimum elong	-8528 Aug 06 j 08:22	12°♊15'15	1°33'46
morning rise	-8528 Aug 18 j 18:07	15°♊02'29	
	-8528 Nov 06 j 22:21	0°♋	
retrograde	-8528 Dec 19 j 14:27	2°♋42'24	
	-8527 Feb 01 j 01:50	30°♊	
opposition	-8527 Feb 18 j 18:50	27°♊50'15	2°20'59
min. Earth dist.	-8527 Feb 19 j 17:05	27°♊43'13	4.29489 AU
direct	-8527 Apr 21 j 20:24	22°♊53'24	
	-8527 Jul 03 j 01:24	0°♋	
evening set	-8527 Aug 25 j 02:14	11°♋01'44	
max. Earth dist.	-8527 Sep 05 j 10:47	13°♋37'16	6.25502 AU
conjunction	-8527 Sep 06 j 11:55	13°♋51'39	1°31'28
minimum elong	-8527 Sep 06 j 11:57	13°♋51'40	1°32'02
morning rise	-8527 Sep 18 j 21:47	16°♋41'45	
	-8527 Nov 24 j 01:12	0°♌	
retrograde	-8526 Jan 22 j 16:37	5°♌03'14	
opposition	-8526 Mar 25 j 01:55	0°♌08'39	1°57'35
min. Earth dist.	-8526 Mar 25 j 14:01	0°♌04'47	4.21229 AU
	-8526 Mar 26 j 05:02	30°♋	
direct	-8526 May 25 j 02:14	25°♋14'22	
	-8526 Jul 21 j 01:33	0°♌	
evening set	-8526 Sep 26 j 01:22	13°♌35'44	
	-8526 Oct 02 j 02:47	15°♌	
conjunction	-8526 Oct 08 j 15:45	16°♌31'18	1°01'11
minimum elong	-8526 Oct 08 j 15:50	16°♌31'21	1°01'36
max. Earth dist.	-8526 Oct 08 j 09:05	16°♌27'25	6.16744 AU
morning rise	-8526 Oct 21 j 07:51	19°♌27'58	
	-8526 Dec 09 j 05:18	0°♍	
retrograde	-8525 Feb 27 j 05:42	8°♍37'19	
opposition	-8525 Apr 29 j 10:55	3°♍39'06	0°54'42
min. Earth dist.	-8525 Apr 29 j 08:35	3°♍39'51	4.12567 AU
	-8525 May 31 j 09:04	30°♌	
direct	-8525 Jun 28 j 03:49	28°♌46'14	
	-8525 Jul 25 j 18:06	0°♍	
evening set	-8525 Oct 29 j 11:17	17°♍24'53	
conjunction	-8525 Nov 11 j 10:00	20°♍27'32	0°09'42
minimum elong	-8525 Nov 11 j 10:01	20°♍27'33	0°09'52
behind sun begin	-8525 Nov 11 j 03:23	20°♍23'40	
behind sun end	-8525 Nov 11 j 16:39	20°♍31'26	
max. Earth dist.	-8525 Nov 11 j 23:07	20°♍35'15	6.09045 AU
morning rise	-8525 Nov 24 j 12:06	23°♍32'01	
	-8525 Dec 23 j 00:18	0°♎	
desc. node	-8524 Jan 18 j 06:31	5°♎19'47	
retrograde	-8524 Apr 03 j 15:47	13°♎20'51	
opposition	-8524 Jun 03 j 10:26	8°♎18'41	-0°29'32
min. Earth dist.	-8524 Jun 02 j 17:39	8°♎24'15	4.06496 AU
direct	-8524 Aug 01 j 00:44	3°♎25'12	
evening set	-8524 Dec 02 j 16:09	22°♎21'25	
conjunction	-8524 Dec 15 j 23:45	25°♎29'35	-0°46'19
minimum elong	-8524 Dec 15 j 23:40	25°♎29'32	0°46'29
max. Earth dist.	-8524 Dec 17 j 08:08	25°♎48'41	6.05137 AU
morning rise	-8524 Dec 29 j 10:38	28°♎39'33	
	-8523 Jan 04 j 04:45	0°♏	
	-8523 Mar 21 j 09:39	15°♏	
retrograde	-8523 May 10 j 05:43	18°♏43'24	
	-8523 Jun 29 j 03:22	15°♏	
min. Earth dist.	-8523 Jul 08 j 07:16	13°♏46'36	4.05237 AU
opposition	-8523 Jul 09 j 06:45	13°♏38'39	-1°44'15
direct	-8523 Sep 05 j 09:48	8°♏42'43	
	-8523 Nov 08 j 15:57	15°♏	
evening set	-8522 Jan 08 j 07:10	27°♏49'59	
	-8522 Jan 17 j 14:07	0°♐	
conjunction	-8522 Jan 21 j 20:49	1°♐00'01	-1°25'39
minimum elong	-8522 Jan 21 j 20:45	0°♐59'59	1°26'06
max. Earth dist.	-8522 Jan 23 j 10:39	1°♐22'07	6.06475 AU
morning rise	-8522 Feb 04 j 13:07	4°♐11'17	
retrograde	-8522 Jun 14 j 19:27	23°♐57'32	
min. Earth dist.	-8522 Aug 12 j 08:12	19°♐00'29	4.09160 AU

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

opposition	-8522 Aug 13 j 07:16	18°♐52'36	-2°20'06
direct	-8522 Oct 10 j 16:12	13°♐53'13	
	-8521 Feb 01 j 02:00	0°♑	
evening set	-8521 Feb 14 j 06:05	2°♑58'47	
conjunction	-8521 Feb 27 j 23:06	6°♑07'28	-1°33'25
minimum elong	-8521 Feb 27 j 23:08	6°♑07'29	1°33'58
max. Earth dist.	-8521 Mar 01 j 05:16	6°♑24'48	6.12544 AU
morning rise	-8521 Mar 13 j 16:44	9°♑16'19	
retrograde	-8521 Jul 19 j 00:14	28°♑18'58	
opposition	-8521 Sep 16 j 03:30	23°♑16'18	-2°05'29
min. Earth dist.	-8521 Sep 15 j 14:19	23°♑20'47	4.16744 AU
direct	-8521 Nov 14 j 12:02	18°♑13'51	
	-8520 Feb 17 j 15:56	0°♒	
evening set	-8520 Mar 21 j 09:14	7°♒05'09	
conjunction	-8520 Apr 04 j 02:11	10°♒10'15	-1°08'35
minimum elong	-8520 Apr 04 j 02:16	10°♒10'18	1°09'02
max. Earth dist.	-8520 Apr 04 j 14:06	10°♒16'58	6.21056 AU
morning rise	-8520 Apr 17 j 17:38	13°♒14'29	
	-8520 Apr 25 j 15:16	15°♒	
	-8520 Jul 20 j 20:58	0°♓	
retrograde	-8520 Aug 19 j 15:26	1°♓25'48	
	-8520 Sep 18 j 06:51	30°℞♒	
opposition	-8520 Oct 17 j 20:45	26°♒26'50	-1°09'58
min. Earth dist.	-8520 Oct 17 j 19:35	26°♒27'13	4.25313 AU
direct	-8520 Dec 17 j 10:22	21°♒22'45	
	-8519 Mar 08 j 04:03	0°♓	
evening set	-8519 Apr 25 j 00:37	9°♓54'25	
conjunction	-8519 May 08 j 12:48	12°♓54'23	-0°22'11
minimum elong	-8519 May 08 j 12:51	12°♓54'24	0°22'24
max. Earth dist.	-8519 May 08 j 02:46	12°♓48'48	6.29116 AU
morning rise	-8519 May 21 j 22:06	15°♓52'47	
	-8519 Aug 04 j 04:31	0°♈	
retrograde	-8519 Sep 20 j 08:48	3°♈23'56	
asc. node	-8519 Oct 23 j 12:55	1°♈39'32	
	-8519 Nov 07 j 03:21	30°℞♓	
opposition	-8519 Nov 18 j 21:44	28°♓28'43	0°05'11
min. Earth dist.	-8519 Nov 19 j 10:23	28°♓24'33	4.32163 AU
direct	-8518 Jan 19 j 16:04	23°♓24'47	
	-8518 Mar 30 j 19:19	0°♈	
evening set	-8518 May 28 j 02:30	11°♈39'17	
max. Earth dist.	-8518 Jun 09 j 04:03	14°♈19'12	6.34247 AU
conjunction	-8518 Jun 10 j 06:10	14°♈33'39	0°29'59
minimum elong	-8518 Jun 10 j 06:07	14°♈33'38	0°30'03
morning rise	-8518 Jun 23 j 06:14	17°♈26'14	
	-8518 Aug 26 j 12:42	0°♉	
retrograde	-8518 Oct 21 j 16:21	4°♉38'58	
	-8518 Dec 19 j 01:44	30°℞♈	
opposition	-8518 Dec 20 j 19:53	29°♈46'24	1°17'13
min. Earth dist.	-8518 Dec 21 j 17:07	29°♈39'32	4.35300 AU
direct	-8517 Feb 21 j 05:56	24°♈44'10	
	-8517 Apr 24 j 12:32	0°♉	
evening set	-8517 Jun 29 j 00:01	12°♉49'06	
	-8517 Jul 08 j 20:00	15°♉	
max. Earth dist.	-8517 Jul 10 j 07:46	15°♉19'55	6.35053 AU
conjunction	-8517 Jul 11 j 17:53	15°♉38'55	1°12'48
minimum elong	-8517 Jul 11 j 17:48	15°♉38'53	1°13'09
morning rise	-8517 Jul 24 j 08:46	18°♉27'19	
	-8517 Sep 19 j 22:22	0°♊	
retrograde	-8517 Nov 22 j 12:12	5°♊45'50	
opposition	-8516 Jan 22 j 05:34	0°♊54'20	2°06'53
min. Earth dist.	-8516 Jan 23 j 06:54	0°♊46'17	4.33851 AU
	-8516 Jan 29 j 09:14	30°℞♉	

direct	-8516 Mar 24 j 18:20	25°♉54'51	
	-8516 May 17 j 18:35	0°♊	
evening set	-8516 Jul 29 j 06:21	13°♊58'47	
max. Earth dist.	-8516 Aug 09 j 07:56	16°♊28'09	6.31335 AU
conjunction	-8516 Aug 10 j 17:20	16°♊46'59	1°34'41
minimum elong	-8516 Aug 10 j 17:19	16°♊46'58	1°35'12
morning rise	-8516 Aug 23 j 02:53	19°♊34'33	
	-8516 Oct 12 j 08:20	0°♋	
retrograde	-8516 Dec 24 j 08:44	7°♋20'34	
opposition	-8515 Feb 23 j 13:54	2°♋28'08	2°20'14
min. Earth dist.	-8515 Feb 24 j 10:24	2°♋21'38	4.28184 AU
	-8515 Mar 15 j 23:40	30°℞♊	
direct	-8515 Apr 26 j 11:46	27°♊31'39	
	-8515 Jun 06 j 10:20	0°♋	
evening set	-8515 Aug 29 j 13:55	15°♋42'15	
max. Earth dist.	-8515 Sep 10 j 03:00	18°♋20'46	6.24159 AU
conjunction	-8515 Sep 11 j 00:06	18°♋32'52	1°28'46
minimum elong	-8515 Sep 11 j 00:09	18°♋32'54	1°29'19
morning rise	-8515 Sep 23 j 10:23	21°♋23'46	
	-8515 Nov 02 j 04:11	0°♌	
retrograde	-8514 Jan 27 j 16:37	9°♌52'14	
opposition	-8514 Mar 30 j 01:39	4°♌57'12	1°50'43
min. Earth dist.	-8514 Mar 30 j 11:40	4°♌54'00	4.19938 AU
direct	-8514 May 29 j 21:35	0°♌03'15	
	-8514 Sep 15 j 15:24	15°♌	
evening set	-8514 Sep 30 j 17:21	18°♌26'40	
conjunction	-8514 Oct 13 j 08:35	21°♌23'08	0°54'49
minimum elong	-8514 Oct 13 j 08:40	21°♌23'10	0°55'12
max. Earth dist.	-8514 Oct 13 j 04:04	21°♌20'30	6.15618 AU
morning rise	-8514 Oct 26 j 02:06	24°♌20'53	
	-8514 Nov 20 j 02:54	0°♍	
retrograde	-8513 Mar 04 j 07:46	13°♍36'05	
opposition	-8513 May 04 j 13:05	8°♍37'12	0°43'22
min. Earth dist.	-8513 May 04 j 07:37	8°♍38'59	4.11682 AU
direct	-8513 Jul 03 j 01:43	3°♍44'21	
evening set	-8513 Nov 03 j 08:25	22°♍24'42	
conjunction	-8513 Nov 16 j 08:34	25°♍28'11	0°01'34
minimum elong	-8513 Nov 16 j 08:34	25°♍28'11	0°01'40
behind sun begin	-8513 Nov 16 j 00:24	25°♍23'24	
behind sun end	-8513 Nov 16 j 16:43	25°♍32'58	
max. Earth dist.	-8513 Nov 17 j 02:15	25°♍38'36	6.08479 AU
desc. node	-8513 Nov 27 j 00:26	27°♍58'42	
morning rise	-8513 Nov 29 j 11:50	28°♍33'28	
	-8513 Dec 05 j 16:34	0°♎	
retrograde	-8512 Apr 08 j 20:31	18°♎24'59	
opposition	-8512 Jun 08 j 12:24	13°♎22'21	-0°41'25
min. Earth dist.	-8512 Jun 07 j 18:49	13°♎28'12	4.06301 AU
direct	-8512 Aug 06 j 01:10	8°♎28'39	
evening set	-8512 Dec 07 j 18:02	27°♎25'48	
	-8512 Dec 18 j 16:17	0°♏	
conjunction	-8512 Dec 21 j 02:27	0°♏34'16	-0°53'18
minimum elong	-8512 Dec 21 j 02:22	0°♏34'13	0°53'31
max. Earth dist.	-8512 Dec 22 j 11:12	0°♏53'33	6.05292 AU
morning rise	-8511 Jan 03 j 14:25	3°♏44'33	
	-8511 Feb 24 j 08:45	15°♏	
retrograde	-8511 May 15 j 05:35	23°♏46'49	
min. Earth dist.	-8511 Jul 13 j 05:04	18°♏50'16	4.05759 AU
opposition	-8511 Jul 14 j 05:45	18°♏41'53	-1°52'04
	-8511 Aug 14 j 05:33	15°℞♏	
direct	-8511 Sep 10 j 08:01	13°♏45'31	
	-8511 Oct 07 j 13:21	15°♏	
	-8511 Dec 31 j 22:35	0°♐	

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

evening set	-8510 Jan 13 j 10:50	2°♐52'29		
conjunction	-8510 Jan 27 j 01:08	6°♐02'23	-1°28'48	
minimum elong	-8510 Jan 27 j 01:04	6°♐02'21	1°29'16	
max. Earth dist.	-8510 Jan 28 j 14:44	6°♐24'19	6.07299 AU	
morning rise	-8510 Feb 09 j 17:38	9°♐13'21		
retrograde	-8510 Jun 19 j 16:21	28°♐54'09		
min. Earth dist.	-8510 Aug 17 j 04:56	23°♐56'38	4.10210 AU	
opposition	-8510 Aug 18 j 01:58	23°♐49'26	-2°21'02	
direct	-8510 Oct 15 j 14:10	18°♐49'37		
	-8509 Jan 14 j 08:07	0°♑		
evening set	-8509 Feb 19 j 07:59	7°♑53'23		
conjunction	-8509 Mar 05 j 01:13	11°♑01'39	-1°31'45	
minimum elong	-8509 Mar 05 j 01:16	11°♑01'40	1°32'19	
max. Earth dist.	-8509 Mar 06 j 05:34	11°♑17'53	6.13731 AU	
morning rise	-8509 Mar 18 j 18:45	14°♑09'55		
	-8509 Jun 09 j 01:21	0°♒		
retrograde	-8509 Jul 23 j 13:54	3°♒05'17		
	-8509 Sep 06 j 00:57	30°℞♑		
opposition	-8509 Sep 20 j 17:39	28°♑03'08	-1°59'48	
min. Earth dist.	-8509 Sep 20 j 05:26	28°♑07'17	4.17965 AU	
direct	-8509 Nov 19 j 05:04	23°♑00'25		
	-8508 Jan 28 j 17:37	0°♒		
evening set	-8508 Mar 26 j 06:44	11°♒49'14		
conjunction	-8508 Apr 08 j 23:12	14°♒53'42	-1°03'05	
minimum elong	-8508 Apr 08 j 23:17	14°♒53'45	1°03'32	
max. Earth dist.	-8508 Apr 09 j 06:48	14°♒57'59	6.22225 AU	
	-8508 Apr 09 j 10:23	15°♒		
morning rise	-8508 Apr 22 j 14:10	17°♒57'14		
	-8508 Jun 20 j 21:48	0°♓		
retrograde	-8508 Aug 24 j 03:19	6°♓02'23		
opposition	-8508 Oct 22 j 08:17	1°♓04'00	-1°00'10	
min. Earth dist.	-8508 Oct 22 j 10:08	1°♓03'23	4.26317 AU	
	-8508 Oct 30 j 08:42	30°℞♒		
direct	-8508 Dec 22 j 03:17	25°♒59'51		
	-8507 Feb 12 j 21:05	0°♓		
evening set	-8507 Apr 29 j 16:53	14°♓29'19		
conjunction	-8507 May 13 j 04:16	17°♓28'39	-0°14'54	
minimum elong	-8507 May 13 j 04:17	17°♓28'39	0°15'05	
behind sun begin	-8507 May 13 j 01:40	17°♓27'12		
behind sun end	-8507 May 13 j 06:55	17°♓30'06		
max. Earth dist.	-8507 May 12 j 16:23	17°♓22'02	6.29887 AU	
morning rise	-8507 May 26 j 12:21	20°♓26'16		
	-8507 Jul 11 j 17:07	0°♈		
asc. node	-8507 Sep 02 j 23:09	7°♈08'16		
retrograde	-8507 Sep 24 j 16:56	7°♈54'08		
opposition	-8507 Nov 23 j 08:18	2°♈59'24	0°15'54	
min. Earth dist.	-8507 Nov 23 j 21:40	2°♈55'01	4.32662 AU	
	-8507 Dec 17 j 19:23	30°℞♓		
direct	-8506 Jan 24 j 04:22	27°♓55'40		
	-8506 Mar 02 j 22:09	0°♈		
evening set	-8506 Jun 01 j 15:06	16°♈09'10		
conjunction	-8506 Jun 14 j 17:19	19°♈02'52	0°36'50	
minimum elong	-8506 Jun 14 j 17:15	19°♈02'51	0°36'56	
max. Earth dist.	-8506 Jun 13 j 13:00	18°♈47'11	6.34436 AU	
morning rise	-8506 Jun 27 j 16:08	21°♈54'51		
	-8506 Aug 05 j 05:50	0°♉		
retrograde	-8506 Oct 26 j 03:49	9°♉07'39		
opposition	-8506 Dec 25 j 07:58	4°♉15'25	1°25'54	
min. Earth dist.	-8506 Dec 26 j 06:54	4°♉08'02	4.35189 AU	
	-8505 Feb 03 j 01:34	30°℞♈		
direct	-8505 Feb 25 j 20:01	29°♈13'34		
	-8505 Mar 20 j 15:42	0°♉		
	-8505 Jun 22 j 21:20	15°♉		
evening set	-8505 Jul 03 j 10:11	17°♉18'35		
max. Earth dist.	-8505 Jul 14 j 16:25	19°♉48'49	6.34638 AU	
conjunction	-8505 Jul 16 j 02:57	20°♉08'05	1°17'21	
minimum elong	-8505 Jul 16 j 02:52	20°♉08'02	1°17'43	
morning rise	-8505 Jul 28 j 16:49	22°♉56'13		
	-8505 Aug 30 j 20:00	0°♊		
retrograde	-8505 Nov 27 j 01:10	10°♊17'52		
opposition	-8504 Jan 26 j 20:46	5°♊26'21	2°11'11	
min. Earth dist.	-8504 Jan 27 j 20:51	5°♊18'42	4.33203 AU	
direct	-8504 Mar 29 j 07:01	0°♊27'20		
evening set	-8504 Aug 02 j 15:59	18°♊32'00		
max. Earth dist.	-8504 Aug 13 j 19:36	21°♊02'49	6.30516 AU	
conjunction	-8504 Aug 15 j 02:30	21°♊20'18	1°35'36	
minimum elong	-8504 Aug 15 j 02:29	21°♊20'17	1°36'08	
morning rise	-8504 Aug 27 j 11:38	24°♊08'02		
	-8504 Sep 23 j 08:19	0°♋		
retrograde	-8504 Dec 29 j 03:27	11°♋59'06		
opposition	-8503 Feb 28 j 08:57	7°♋06'26	2°18'39	
min. Earth dist.	-8503 Mar 01 j 04:38	7°♋00'11	4.27250 AU	
direct	-8503 May 01 j 04:26	2°♋10'24		
evening set	-8503 Sep 03 j 01:04	20°♋21'54		
conjunction	-8503 Sep 15 j 11:29	23°♋13'03	1°25'34	
minimum elong	-8503 Sep 15 j 11:33	23°♋13'05	1°26'06	
max. Earth dist.	-8503 Sep 14 j 15:45	23°♋01'41	6.23192 AU	
morning rise	-8503 Sep 27 j 22:34	26°♋04'39		
	-8503 Oct 15 j 09:05	0°♌		
retrograde	-8502 Feb 01 j 13:31	14°♌38'42		
opposition	-8502 Apr 03 j 23:30	9°♌43'06	1°43'12	
min. Earth dist.	-8502 Apr 04 j 06:32	9°♌40'51	4.19000 AU	
direct	-8502 Jun 03 j 14:49	4°♌49'22		
	-8502 Aug 29 j 01:22	15°♌		
evening set	-8502 Oct 05 j 07:38	23°♌13'52		
conjunction	-8502 Oct 18 j 00:04	26°♌11'10	0°48'12	
minimum elong	-8502 Oct 18 j 00:08	26°♌11'12	0°48'34	
max. Earth dist.	-8502 Oct 17 j 23:53	26°♌11'04	6.14807 AU	
morning rise	-8502 Oct 30 j 18:38	29°♌09'47		
	-8502 Nov 03 j 09:30	0°♍		
retrograde	-8501 Mar 09 j 08:56	18°♍29'35		
opposition	-8501 May 09 j 12:32	13°♍30'09	0°31'59	
min. Earth dist.	-8501 May 09 j 06:01	13°♍32'16	4.11043 AU	
direct	-8501 Jul 07 j 22:37	8°♍37'16		
desc. node	-8501 Oct 07 j 00:15	20°♍03'39		
evening set	-8501 Nov 08 j 03:20	27°♍18'46		
	-8501 Nov 19 j 13:38	0°♎		
conjunction	-8501 Nov 21 j 04:31	0°♎22'55	-0°06'30	
minimum elong	-8501 Nov 21 j 04:30	0°♎22'54	0°06'26	
behind sun begin	-8501 Nov 20 j 20:49	0°♎18'23		
behind sun end	-8501 Nov 21 j 12:11	0°♎27'24		
max. Earth dist.	-8501 Nov 21 j 23:25	0°♎34'02	6.08060 AU	
morning rise	-8501 Dec 04 j 09:14	3°♎28'57		
retrograde	-8500 Apr 13 j 19:54	23°♎22'31		
opposition	-8500 Jun 13 j 10:55	18°♎19'26	-0°52'42	
min. Earth dist.	-8500 Jun 12 j 15:17	18°♎25'59	4.06152 AU	
direct	-8500 Aug 10 j 20:44	13°♎25'25		
	-8500 Dec 02 j 09:56	0°♏		
evening set	-8500 Dec 12 j 17:22	2°♏23'39		
conjunction	-8500 Dec 26 j 02:47	5°♏32'27	-0°59'43	
minimum elong	-8500 Dec 26 j 02:42	5°♏32'24	0°59'59	
max. Earth dist.	-8500 Dec 27 j 12:56	5°♏52'33	6.05411 AU	
morning rise	-8499 Jan 08 j 15:27	8°♏42'57		

Attention, astronomical year style is used: The year -8499 in astronomical counting style is the year 8500 BCE in historical counting style.

	-8499 Feb 05 j 07:55	15°♏		
retrograde	-8499 May 20 j 04:08	28°♏43'44		
min. Earth dist.	-8499 Jul 18 j 02:09	23°♏46'40	4.06135 AU	
opposition	-8499 Jul 19 j 01:40	23°♏38'40	-1°58'55	
direct	-8499 Sep 15 j 05:09	18°♏41'49		
	-8499 Dec 14 j 10:37	0°♐		
evening set	-8498 Jan 18 j 12:21	7°♐49'09		
conjunction	-8498 Feb 01 j 03:15	10°♐59'01	-1°31'14	
minimum elong	-8498 Feb 01 j 03:12	10°♐59'00	1°31'44	
max. Earth dist.	-8498 Feb 02 j 16:14	11°♐20'32	6.07891 AU	
morning rise	-8498 Feb 14 j 20:09	14°♐09'50		
	-8498 May 05 j 18:34	0°♑		
retrograde	-8498 Jun 24 j 09:47	3°♑45'52		
	-8498 Aug 13 j 02:11	30°℞♐		
opposition	-8498 Aug 22 j 18:26	28°♐41'25	-2°20'59	
min. Earth dist.	-8498 Aug 21 j 21:51	28°♐48'27	4.10975 AU	
direct	-8498 Oct 20 j 08:04	23°♐41'09		
	-8498 Dec 24 j 19:30	0°♑		
evening set	-8497 Feb 24 j 08:21	12°♑44'10		
conjunction	-8497 Mar 10 j 01:40	15°♑52'07	-1°29'29	
minimum elong	-8497 Mar 10 j 01:43	15°♑52'09	1°30'01	
max. Earth dist.	-8497 Mar 11 j 02:07	16°♑06'06	6.14607 AU	
morning rise	-8497 Mar 23 j 19:15	19°♑00'00		
	-8497 May 15 j 00:07	0°♒		
retrograde	-8497 Jul 28 j 04:34	7°♒49'23		
opposition	-8497 Sep 25 j 07:17	2°♒47'41	-1°53'24	
min. Earth dist.	-8497 Sep 24 j 21:35	2°♒50'59	4.18854 AU	
	-8497 Oct 17 j 04:13	30°℞♑		
direct	-8497 Nov 23 j 23:32	27°♑44'38		
	-8496 Jan 01 j 04:53	0°♒		
	-8496 Mar 24 j 05:59	15°♒		
evening set	-8496 Mar 31 j 03:31	16°♒31'56		
conjunction	-8496 Apr 13 j 19:49	19°♒35'58	-0°57'11	
minimum elong	-8496 Apr 13 j 19:54	19°♒36'01	0°57'36	
max. Earth dist.	-8496 Apr 14 j 01:57	19°♒39'25	6.23093 AU	
morning rise	-8496 Apr 27 j 09:59	22°♒38'51		
	-8496 May 31 j 16:29	0°♓		
retrograde	-8496 Aug 28 j 13:51	10°♓38'48		
opposition	-8496 Oct 26 j 19:56	5°♓40'58	-0°50'00	
min. Earth dist.	-8496 Oct 26 j 22:36	5°♓40'05	4.27093 AU	
direct	-8496 Dec 26 j 17:35	0°♓36'48		
evening set	-8495 May 04 j 09:40	19°♓04'40		
conjunction	-8495 May 17 j 19:51	22°♓03'17	-0°07'32	
minimum elong	-8495 May 17 j 19:52	22°♓03'18	0°07'40	
behind sun begin	-8495 May 17 j 12:29	21°♓59'12		
behind sun end	-8495 May 18 j 03:16	22°♓07'23		
max. Earth dist.	-8495 May 17 j 04:22	21°♓54'41	6.30525 AU	
morning rise	-8495 May 31 j 02:58	25°♓00'14		
	-8495 Jun 23 j 06:33	0°♈		
asc. node	-8495 Jul 13 j 13:30	4°♈02'44		
retrograde	-8495 Sep 29 j 04:07	12°♈25'11		
opposition	-8495 Nov 27 j 19:56	7°♈30'51	0°26'35	
min. Earth dist.	-8495 Nov 28 j 11:20	7°♈25'49	4.33123 AU	
direct	-8494 Jan 28 j 19:37	2°♈27'16		
evening set	-8494 Jun 06 j 03:40	20°♈39'27		
max. Earth dist.	-8494 Jun 18 j 00:23	23°♈16'48	6.34676 AU	
conjunction	-8494 Jun 19 j 04:41	23°♈32'30	0°43'30	
minimum elong	-8494 Jun 19 j 04:38	23°♈32'28	0°43'40	
morning rise	-8494 Jul 02 j 02:03	26°♈23'48		
	-8494 Jul 18 j 16:11	0°♉		
retrograde	-8494 Oct 30 j 13:25	13°♉36'28		
opposition	-8494 Dec 29 j 20:42	8°♉44'24	1°34'07	
min. Earth dist.	-8494 Dec 30 j 19:00	8°♉37'14	4.35209 AU	
direct	-8493 Mar 02 j 08:09	3°♉42'55		
	-8493 Jun 05 j 23:43	15°♉		
evening set	-8493 Jul 07 j 20:05	21°♉47'09		
max. Earth dist.	-8493 Jul 19 j 00:50	24°♉16'47	6.34410 AU	
conjunction	-8493 Jul 20 j 11:33	24°♉36'11	1°21'26	
minimum elong	-8493 Jul 20 j 11:29	24°♉36'08	1°21'50	
morning rise	-8493 Aug 02 j 00:28	27°♉23'59		
	-8493 Aug 13 j 20:10	0°♊		
retrograde	-8493 Dec 01 j 15:40	14°♊48'07		
opposition	-8492 Jan 31 j 11:55	9°♊56'34	2°14'42	
min. Earth dist.	-8492 Feb 01 j 12:36	9°♊48'43	4.32728 AU	
direct	-8492 Apr 02 j 22:07	4°♊57'56		
evening set	-8492 Aug 07 j 00:46	23°♊02'36		
max. Earth dist.	-8492 Aug 18 j 04:44	25°♊33'55	6.29802 AU	
conjunction	-8492 Aug 19 j 10:53	25°♊50'59	1°35'57	
minimum elong	-8492 Aug 19 j 10:53	25°♊50'59	1°36'30	
morning rise	-8492 Aug 31 j 19:53	28°♊38'57		
	-8492 Sep 06 j 20:25	0°♋		
retrograde	-8491 Jan 02 j 19:20	16°♋34'46		
opposition	-8491 Mar 05 j 02:58	11°♋41'45	2°16'15	
min. Earth dist.	-8491 Mar 05 j 20:28	11°♋36'11	4.26338 AU	
direct	-8491 May 05 j 18:02	6°♋46'05		
evening set	-8491 Sep 07 j 11:10	24°♋58'37		
conjunction	-8491 Sep 19 j 22:07	27°♋50'25	1°21'52	
minimum elong	-8491 Sep 19 j 22:11	27°♋50'27	1°22'23	
max. Earth dist.	-8491 Sep 19 j 05:19	27°♋40'44	6.22156 AU	
	-8491 Sep 29 j 07:12	0°♌		
morning rise	-8491 Oct 02 j 09:50	0°♌42'46		
	-8491 Dec 13 j 05:16	15°♌		
retrograde	-8490 Feb 06 j 11:57	19°♌22'57		
	-8490 Apr 04 j 13:26	15°℞♌		
opposition	-8490 Apr 08 j 20:53	14°♌26'54	1°35'05	
min. Earth dist.	-8490 Apr 09 j 03:13	14°♌24'52	4.17881 AU	
direct	-8490 Jun 08 j 09:19	9°♌33'23		
	-8490 Aug 08 j 03:59	15°♌		
evening set	-8490 Oct 09 j 21:49	27°♌59'55		
	-8490 Oct 18 j 11:48	0°♍		
conjunction	-8490 Oct 22 j 15:16	0°♍58'10	0°41'18	
minimum elong	-8490 Oct 22 j 15:19	0°♍58'12	0°41'37	
max. Earth dist.	-8490 Oct 22 j 16:37	0°♍58'58	6.13713 AU	
morning rise	-8490 Nov 04 j 11:18	3°♍57'54		
retrograde	-8489 Mar 14 j 08:39	23°♍23'30		
opposition	-8489 May 14 j 11:51	18°♍23'33	0°20'21	
min. Earth dist.	-8489 May 14 j 02:39	18°♍26'33	4.10066 AU	
direct	-8489 Jul 12 j 17:08	13°♍30'38		
desc. node	-8489 Aug 17 j 04:50	15°♍32'25		
	-8489 Nov 03 j 07:24	0°♎		
evening set	-8489 Nov 12 j 23:35	2°♎15'00		
conjunction	-8489 Nov 26 j 02:04	5°♎20'02	-0°14'27	
minimum elong	-8489 Nov 26 j 02:02	5°♎20'01	0°14'26	
behind sun begin	-8489 Nov 25 j 22:18	5°♎17'50		
behind sun end	-8489 Nov 26 j 05:46	5°♎22'13		
max. Earth dist.	-8489 Nov 26 j 23:45	5°♎32'50	6.07285 AU	
morning rise	-8489 Dec 09 j 07:57	8°♎26'58		
retrograde	-8488 Apr 18 j 23:14	28°♎24'03		
opposition	-8488 Jun 18 j 10:45	23°♎20'34	-1°03'46	
min. Earth dist.	-8488 Jun 17 j 15:00	23°♎27'11	4.05650 AU	
direct	-8488 Aug 15 j 19:13	18°♎26'13		
	-8488 Nov 14 j 19:06	0°♏		
evening set	-8488 Dec 17 j 19:21	7°♏27'12		

Attention, astronomical year style is used: The year -8487 in astronomical counting style is the year 8488 BCE in historical counting style.

conjunction	-8488 Dec 31 j 05:45	10°♏36'29	-1°05'49
minimum elong	-8488 Dec 31 j 05:39	10°♏36'26	1°06'08
max. Earth dist.	-8487 Jan 01 j 17:10	10°♏57'19	6.05208 AU
morning rise	-8487 Jan 13 j 19:19	13°♏47'25	
	-8487 Jan 19 j 00:10	15°♏	
	-8487 Apr 05 j 01:27	0°♐	
retrograde	-8487 May 25 j 04:38	3°♐47'39	
	-8487 Jul 14 j 10:07	30°℞♏	
min. Earth dist.	-8487 Jul 22 j 23:55	28°♏50'46	4.06282 AU
opposition	-8487 Jul 24 j 00:01	28°♏42'34	-2°05'02
direct	-8487 Sep 20 j 02:16	23°♏45'17	
	-8487 Nov 23 j 08:50	0°♐	
evening set	-8486 Jan 23 j 17:16	12°♐53'57	
conjunction	-8486 Feb 06 j 08:37	16°♐03'50	-1°33'04
minimum elong	-8486 Feb 06 j 08:35	16°♐03'49	1°33'36
max. Earth dist.	-8486 Feb 07 j 19:36	16°♐24'09	6.08348 AU
morning rise	-8486 Feb 20 j 01:57	19°♐14'33	
	-8486 Apr 11 j 00:09	0°♑	
retrograde	-8486 Jun 29 j 06:58	8°♑46'11	
opposition	-8486 Aug 27 j 14:01	3°♑42'01	-2°19'57
min. Earth dist.	-8486 Aug 26 j 18:46	3°♑48'36	4.11699 AU
	-8486 Sep 27 j 05:11	30°℞♐	
direct	-8486 Oct 25 j 07:12	28°♐41'18	
	-8486 Nov 22 j 15:35	0°♑	
evening set	-8485 Mar 01 j 12:04	17°♑43'36	
conjunction	-8485 Mar 15 j 05:41	20°♑51'16	-1°26'31
minimum elong	-8485 Mar 15 j 05:45	20°♑51'18	1°27'03
max. Earth dist.	-8485 Mar 16 j 05:44	21°♑04'59	6.15575 AU
morning rise	-8485 Mar 28 j 22:54	23°♑58'36	
	-8485 Apr 25 j 07:13	0°♒	
retrograde	-8485 Aug 01 j 21:31	12°♒41'18	
opposition	-8485 Sep 29 j 23:37	7°♒40'11	-1°46'05
min. Earth dist.	-8485 Sep 29 j 14:46	7°♒43'11	4.19988 AU
direct	-8485 Nov 28 j 19:13	2°♒36'58	
	-8484 Mar 06 j 16:43	15°♒	
evening set	-8484 Apr 05 j 02:57	21°♒21'37	
conjunction	-8484 Apr 18 j 18:31	24°♒24'55	-0°50'49
minimum elong	-8484 Apr 18 j 18:35	24°♒24'57	0°51'12
max. Earth dist.	-8484 Apr 18 j 21:08	24°♒26'23	6.24337 AU
morning rise	-8484 May 02 j 08:04	27°♒26'59	
	-8484 May 13 j 21:26	0°♓	
retrograde	-8484 Sep 02 j 02:39	15°♓20'24	
opposition	-8484 Oct 31 j 09:42	10°♓23'03	-0°39'25
min. Earth dist.	-8484 Oct 31 j 14:05	10°♓21'36	4.28352 AU
direct	-8484 Dec 31 j 12:02	5°♓18'52	
evening set	-8483 May 09 j 02:50	23°♓43'03	
conjunction	-8483 May 22 j 11:56	26°♓40'41	-0°00'02
minimum elong	-8483 May 22 j 11:56	26°♓40'41	0°00'09
behind sun begin	-8483 May 22 j 03:52	26°♓36'13	
behind sun end	-8483 May 22 j 20:00	26°♓45'08	
max. Earth dist.	-8483 May 21 j 20:17	26°♓32'01	6.31731 AU
asc. node	-8483 May 22 j 17:03	26°♓43'29	
morning rise	-8483 Jun 04 j 17:31	29°♓36'33	
	-8483 Jun 06 j 12:08	0°♈	
retrograde	-8483 Oct 03 j 12:41	16°♈56'47	
opposition	-8483 Dec 02 j 07:38	12°♈02'50	0°37'00
min. Earth dist.	-8483 Dec 02 j 23:21	11°♈57'43	4.34190 AU
direct	-8482 Feb 02 j 09:29	6°♈59'31	
evening set	-8482 Jun 10 j 15:12	25°♈08'03	
max. Earth dist.	-8482 Jun 22 j 07:50	27°♈43'05	6.35507 AU
conjunction	-8482 Jun 23 j 14:32	28°♈00'06	0°49'47
minimum elong	-8482 Jun 23 j 14:28	28°♈00'04	0°49'59
morning rise	-8482 Jul 02 j 15:05	0°♉	
	-8482 Jul 06 j 10:37	0°♉50'29	
	-8482 Sep 20 j 03:41	15°♉	
retrograde	-8482 Nov 03 j 22:56	18°♉01'16	
	-8482 Dec 19 j 12:56	15°℞♉	
opposition	-8481 Jan 03 j 07:49	13°♉09'21	1°41'32
min. Earth dist.	-8481 Jan 04 j 07:41	13°♉01'41	4.35753 AU
direct	-8481 Mar 06 j 21:44	8°♉08'07	
	-8481 May 17 j 21:47	15°♉	
evening set	-8481 Jul 12 j 03:03	26°♉09'47	
max. Earth dist.	-8481 Jul 23 j 07:25	28°♉39'12	6.34604 AU
conjunction	-8481 Jul 24 j 17:31	28°♉58'15	1°24'55
minimum elong	-8481 Jul 24 j 17:28	28°♉58'13	1°25'21
	-8481 Jul 29 j 08:01	0°♊	
morning rise	-8481 Aug 06 j 05:22	1°♊45'33	
retrograde	-8481 Dec 05 j 23:58	19°♊10'59	
opposition	-8480 Feb 04 j 23:51	14°♊19'18	2°17'15
min. Earth dist.	-8480 Feb 05 j 23:39	14°♊11'45	4.32565 AU
direct	-8480 Apr 07 j 08:01	9°♊21'03	
evening set	-8480 Aug 11 j 05:56	27°♊24'46	
max. Earth dist.	-8480 Aug 22 j 09:48	29°♊56'16	6.29283 AU
	-8480 Aug 22 j 16:23	0°♋	
conjunction	-8480 Aug 23 j 15:36	0°♋13'11	1°35'43
minimum elong	-8480 Aug 23 j 15:37	0°♋13'11	1°36'16
morning rise	-8480 Sep 05 j 00:33	3°♋01'19	
retrograde	-8479 Jan 07 j 09:50	21°♋01'28	
opposition	-8479 Mar 09 j 17:27	16°♋08'09	2°13'05
min. Earth dist.	-8479 Mar 10 j 11:24	16°♋02'27	4.25468 AU
direct	-8479 May 10 j 07:07	11°♋12'45	
evening set	-8479 Sep 11 j 17:49	29°♋26'24	
	-8479 Sep 14 j 04:23	0°♌	
conjunction	-8479 Sep 24 j 05:23	2°♌18'56	1°17'48
minimum elong	-8479 Sep 24 j 05:27	2°♌18'58	1°18'18
max. Earth dist.	-8479 Sep 23 j 13:25	2°♌09'43	6.21023 AU
morning rise	-8479 Oct 06 j 17:59	5°♌12'09	
	-8479 Nov 21 j 06:29	15°♌	
retrograde	-8478 Feb 11 j 04:50	23°♌58'48	
opposition	-8478 Apr 13 j 14:22	19°♌02'17	1°26'38
min. Earth dist.	-8478 Apr 13 j 18:39	19°♌00'54	4.16564 AU
	-8478 May 20 j 17:18	15°℞♌	
direct	-8478 Jun 12 j 21:34	14°♌08'55	
	-8478 Jul 06 j 00:14	15°♌	
	-8478 Oct 02 j 22:18	0°♍	
evening set	-8478 Oct 14 j 09:31	2°♍38'40	
conjunction	-8478 Oct 27 j 04:11	5°♍38'03	0°34'20
minimum elong	-8478 Oct 27 j 04:14	5°♍38'05	0°34'37
max. Earth dist.	-8478 Oct 27 j 07:43	5°♍40'07	6.12344 AU
morning rise	-8478 Nov 09 j 01:33	8°♍38'59	
retrograde	-8477 Mar 19 j 09:01	28°♍11'36	
opposition	-8477 May 19 j 08:46	23°♍11'09	0°08'52
min. Earth dist.	-8477 May 18 j 23:00	23°♍14'22	4.08750 AU
desc. node	-8477 Jun 29 j 08:00	18°♍50'44	
direct	-8477 Jul 17 j 10:52	18°♍18'07	
	-8477 Oct 17 j 09:22	0°♎	
evening set	-8477 Nov 17 j 18:34	7°♎06'55	
conjunction	-8477 Nov 30 j 22:23	10°♎13'03	-0°22'08
minimum elong	-8477 Nov 30 j 22:20	10°♎13'01	0°22'09
max. Earth dist.	-8477 Dec 01 j 22:23	10°♎27'13	6.06159 AU
morning rise	-8477 Dec 14 j 05:40	13°♎21'04	
	-8476 Mar 07 j 12:57	0°♏	
retrograde	-8476 Apr 24 j 00:35	3°♏22'48	
	-8476 Jun 10 j 14:39	30°℞♎	

Attention, astronomical year style is used: The year -8476 in astronomical counting style is the year 8477 BCE in historical counting style.

opposition	-8476 Jun 23 j 09:24	28°♎19'00	-1°14'11	
min. Earth dist.	-8476 Jun 22 j 12:09	28°♎26'09	4.04859 AU	
direct	-8476 Aug 20 j 14:13	23°♎24'24		
	-8476 Oct 25 j 12:02	0°♏		
evening set	-8476 Dec 22 j 21:30	12°♏29'19		
	-8475 Jan 02 j 14:13	15°♏		
conjunction	-8475 Jan 05 j 08:46	15°♏39'10	-1°11'20	
minimum elong	-8475 Jan 05 j 08:41	15°♏39'07	1°11'40	
max. Earth dist.	-8475 Jan 06 j 20:29	16°♏00'10	6.04808 AU	
morning rise	-8475 Jan 18 j 23:15	18°♏50'37		
	-8475 Mar 11 j 06:21	0°♐		
retrograde	-8475 May 30 j 04:44	8°♐50'44		
opposition	-8475 Jul 28 j 21:57	3°♐45'34	-2°10'08	
min. Earth dist.	-8475 Jul 27 j 21:44	3°♐53'50	4.06329 AU	
	-8475 Aug 29 j 09:18	30°℞♏		
direct	-8475 Sep 25 j 01:26	28°♏47'48		
	-8475 Oct 21 j 21:03	0°♐		
evening set	-8474 Jan 28 j 22:24	17°♐57'57		
conjunction	-8474 Feb 11 j 14:30	21°♐07'53	-1°34'09	
minimum elong	-8474 Feb 11 j 14:29	21°♐07'53	1°34'41	
max. Earth dist.	-8474 Feb 13 j 02:49	21°♐28'57	6.08844 AU	
morning rise	-8474 Feb 25 j 07:58	24°♐18'27		
	-8474 Mar 22 j 16:30	0°♑		
retrograde	-8474 Jul 04 j 04:17	13°♑44'55		
opposition	-8474 Sep 01 j 09:11	8°♑41'02	-2°17'49	
min. Earth dist.	-8474 Aug 31 j 14:38	8°♑47'22	4.12578 AU	
direct	-8474 Oct 30 j 05:04	3°♑39'55		
evening set	-8473 Mar 06 j 15:06	22°♑40'30		
conjunction	-8473 Mar 20 j 08:36	25°♑47'39	-1°22'56	
minimum elong	-8473 Mar 20 j 08:40	25°♑47'41	1°23'27	
max. Earth dist.	-8473 Mar 21 j 05:34	25°♑59'35	6.16738 AU	
morning rise	-8473 Apr 03 j 01:45	28°♑54'25		
	-8473 Apr 07 j 22:18	0°♒		
	-8473 Jun 27 j 17:54	15°♒		
retrograde	-8473 Aug 06 j 12:03	17°♒29'39		
	-8473 Sep 15 j 02:31	15°℞♒		
opposition	-8473 Oct 04 j 15:01	12°♒28'55	-1°38'05	
min. Earth dist.	-8473 Oct 04 j 07:29	12°♒31'28	4.21279 AU	
direct	-8473 Dec 03 j 14:53	7°♒25'24		
	-8472 Feb 15 j 23:32	15°♒		
evening set	-8472 Apr 10 j 00:24	26°♒06'41		
conjunction	-8472 Apr 23 j 15:24	29°♒09'11	-0°44'10	
minimum elong	-8472 Apr 23 j 15:28	29°♒09'13	0°44'30	
max. Earth dist.	-8472 Apr 23 j 16:23	29°♒09'44	6.25649 AU	
	-8472 Apr 27 j 10:13	0°♓		
morning rise	-8472 May 07 j 03:55	2°♓10'19		
retrograde	-8472 Sep 06 j 13:39	19°♓57'17		
opposition	-8472 Nov 04 j 21:58	15°♓00'29	-0°28'41	
min. Earth dist.	-8472 Nov 05 j 04:03	14°♓58'28	4.29532 AU	
direct	-8471 Jan 05 j 04:06	9°♓56'20		
asc. node	-8471 Mar 31 j 21:09	19°♓22'28		
evening set	-8471 May 13 j 18:27	28°♓17'18		
	-8471 May 21 j 12:34	0°♈		
max. Earth dist.	-8471 May 26 j 06:49	1°♈03'18	6.32665 AU	
conjunction	-8471 May 27 j 02:12	1°♈14'02	0°07'26	
minimum elong	-8471 May 27 j 02:11	1°♈14'02	0°07'23	
behind sun begin	-8471 May 26 j 18:44	1°♈09'55		
behind sun end	-8471 May 27 j 09:38	1°♈18'08		
morning rise	-8471 Jun 09 j 06:37	4°♈09'01		
retrograde	-8471 Oct 07 j 22:11	21°♈26'00		
opposition	-8471 Dec 06 j 18:51	16°♈32'24	0°47'12	
min. Earth dist.	-8471 Dec 07 j 12:23	16°♈26'42	4.34817 AU	
direct	-8470 Feb 06 j 23:31	11°♈29'17		
evening set	-8470 Jun 15 j 01:59	29°♈35'57		
	-8470 Jun 16 j 21:43	0°♉		
max. Earth dist.	-8470 Jun 26 j 17:21	2°♉10'18	6.35765 AU	
conjunction	-8470 Jun 28 j 00:05	2°♉27'20	0°55'51	
minimum elong	-8470 Jun 28 j 00:01	2°♉27'18	0°56'05	
morning rise	-8470 Jul 10 j 18:42	5°♉17'03		
	-8470 Aug 27 j 01:53	15°♉		
retrograde	-8470 Nov 08 j 08:20	22°♉28'18		
opposition	-8469 Jan 07 j 20:08	17°♉36'34	1°48'34	
min. Earth dist.	-8469 Jan 08 j 20:11	17°♉28'52	4.35640 AU	
	-8469 Jan 29 j 07:58	15°℞♉		
direct	-8469 Mar 11 j 09:52	12°♉35'47		
	-8469 Apr 21 j 09:47	15°♉		
	-8469 Jul 13 j 16:29	0°♊		
evening set	-8469 Jul 16 j 11:35	0°♊37'09		
max. Earth dist.	-8469 Jul 27 j 13:27	3°♊05'30	6.34103 AU	
conjunction	-8469 Jul 29 j 00:55	3°♊25'21	1°28'03	
minimum elong	-8469 Jul 29 j 00:52	3°♊25'19	1°28'31	
morning rise	-8469 Aug 10 j 12:10	6°♊12'33		
retrograde	-8469 Dec 10 j 14:47	23°♊41'55		
opposition	-8468 Feb 09 j 15:20	18°♊50'08	2°19'13	
min. Earth dist.	-8468 Feb 10 j 15:36	18°♊42'27	4.31716 AU	
direct	-8468 Apr 11 j 22:36	13°♊52'17		
	-8468 Aug 06 j 21:16	0°♋		
evening set	-8468 Aug 15 j 14:44	1°♋57'19		
max. Earth dist.	-8468 Aug 26 j 20:32	4°♋30'16	6.28156 AU	
conjunction	-8468 Aug 28 j 00:27	4°♋46'08	1°34'56	
minimum elong	-8468 Aug 28 j 00:28	4°♋46'09	1°35'29	
morning rise	-8468 Sep 09 j 09:26	7°♋34'48		
retrograde	-8467 Jan 12 j 03:39	25°♋41'22		
opposition	-8467 Mar 14 j 13:01	20°♋47'43	2°09'01	
min. Earth dist.	-8467 Mar 15 j 04:51	20°♋42'41	4.24149 AU	
direct	-8467 May 14 j 22:06	15°♋52'44		
	-8467 Aug 28 j 20:50	0°♌		
evening set	-8467 Sep 16 j 05:56	4°♌08'53		
conjunction	-8467 Sep 28 j 18:10	7°♌02'19	1°13'02	
minimum elong	-8467 Sep 28 j 18:15	7°♌02'22	1°13'32	
max. Earth dist.	-8467 Sep 28 j 04:18	6°♌54'17	6.19634 AU	
morning rise	-8467 Oct 11 j 07:49	9°♌56'37		
	-8467 Nov 02 j 19:08	15°♌		
retrograde	-8466 Feb 16 j 06:39	28°♌50'43		
opposition	-8466 Apr 18 j 14:21	23°♌53'41	1°17'08	
min. Earth dist.	-8466 Apr 18 j 17:03	23°♌52'49	4.15203 AU	
direct	-8466 Jun 17 j 17:52	19°♌00'30		
	-8466 Sep 15 j 09:38	0°♍		
evening set	-8466 Oct 19 j 03:12	7°♍33'20		
conjunction	-8466 Oct 31 j 23:12	10°♍33'48	0°26'45	
minimum elong	-8466 Oct 31 j 23:15	10°♍33'50	0°26'59	
max. Earth dist.	-8466 Nov 01 j 06:27	10°♍38'03	6.11175 AU	
morning rise	-8466 Nov 13 j 22:00	13°♍35'55		
	-8465 Feb 05 j 18:23	0°♎		
retrograde	-8465 Mar 24 j 12:58	3°♎14'15		
desc. node	-8465 May 09 j 10:12	0°♎08'56		
	-8465 May 10 j 15:28	30°℞♍		
opposition	-8465 May 24 j 10:59	28°♍13'18	-0°03'16	
min. Earth dist.	-8465 May 23 j 22:37	28°♍17'23	4.07921 AU	
direct	-8465 Jul 22 j 08:26	23°♍20'16		
	-8465 Sep 26 j 22:40	0°♎		
evening set	-8465 Nov 22 j 18:51	12°♎11'32		
conjunction	-8465 Dec 05 j 23:44	15°♎18'19	-0°29'59	

Attention, astronomical year style is used: The year -8465 in astronomical counting style is the year 8466 BCE in historical counting style.

minimum elong	-8465 Dec 05 j 23:41	15°♎18'17	0°30'04
max. Earth dist.	-8465 Dec 07 j 01:49	15°♎33'42	6.05749 AU
morning rise	-8465 Dec 19 j 08:16	18°♎27'02	
	-8464 Feb 10 j 13:02	0°♏	
retrograde	-8464 Apr 29 j 03:12	8°♏29'58	
min. Earth dist.	-8464 Jun 27 j 12:00	3°♏33'24	4.04940 AU
opposition	-8464 Jun 28 j 10:39	3°♏25'46	-1°24'19
	-8464 Jul 26 j 18:09	30°℞♎	
direct	-8464 Aug 25 j 14:46	28°♎30'46	
	-8464 Sep 24 j 10:59	0°♏	
	-8464 Dec 16 j 19:51	15°♏	
evening set	-8464 Dec 28 j 01:32	17°♏36'10	
conjunction	-8463 Jan 10 j 13:44	20°♏46'06	-1°16'24
minimum elong	-8463 Jan 10 j 13:39	20°♏46'03	1°16'47
max. Earth dist.	-8463 Jan 12 j 04:14	21°♏08'41	6.05364 AU
morning rise	-8463 Jan 24 j 04:41	23°♏57'27	
	-8463 Feb 19 j 20:14	0°♐	
retrograde	-8463 Jun 04 j 04:50	13°♐53'11	
opposition	-8463 Aug 02 j 19:22	8°♐48'01	-2°14'12
min. Earth dist.	-8463 Aug 01 j 19:40	8°♐56'07	4.07318 AU
direct	-8463 Sep 30 j 00:41	3°♐49'46	
evening set	-8462 Feb 03 j 01:48	22°♐57'46	
conjunction	-8462 Feb 16 j 18:02	26°♐07'12	-1°34'34
minimum elong	-8462 Feb 16 j 18:02	26°♐07'12	1°35'06
max. Earth dist.	-8462 Feb 18 j 03:57	26°♐26'48	6.10139 AU
morning rise	-8462 Mar 02 j 11:44	29°♐17'11	
	-8462 Mar 05 j 14:35	0°♑	
retrograde	-8462 Jul 08 j 19:26	18°♑35'40	
min. Earth dist.	-8462 Sep 05 j 07:25	13°♑38'04	4.14044 AU
opposition	-8462 Sep 06 j 01:01	13°♑32'03	-2°14'46
direct	-8462 Nov 04 j 00:19	8°♑30'27	
evening set	-8461 Mar 11 j 13:49	27°♑27'25	
	-8461 Mar 22 j 19:33	0°♒	
conjunction	-8461 Mar 25 j 07:14	0°♒33'52	-1°18'55
minimum elong	-8461 Mar 25 j 07:19	0°♒33'55	1°19'25
max. Earth dist.	-8461 Mar 26 j 01:43	0°♒44'22	6.18261 AU
morning rise	-8461 Apr 07 j 23:50	3°♒39'45	
	-8461 Jun 01 j 14:47	15°♒	
retrograde	-8461 Aug 10 j 23:20	22°♒06'50	
opposition	-8461 Oct 09 j 02:08	17°♒06'38	-1°29'46
min. Earth dist.	-8461 Oct 08 j 21:24	17°♒08'14	4.22689 AU
	-8461 Oct 25 j 05:30	15°℞♒	
direct	-8461 Dec 08 j 06:58	12°♒02'53	
	-8460 Jan 21 j 18:04	15°♒	
	-8460 Apr 11 j 15:38	0°♓	
evening set	-8460 Apr 14 j 17:09	0°♓40'40	
conjunction	-8460 Apr 28 j 07:24	3°♓42'23	-0°37'30
minimum elong	-8460 Apr 28 j 07:28	3°♓42'25	0°37'49
max. Earth dist.	-8460 Apr 28 j 04:20	3°♓40'40	6.26832 AU
morning rise	-8460 May 11 j 19:04	6°♓42'41	
retrograde	-8460 Sep 10 j 20:12	24°♓24'16	
opposition	-8460 Nov 09 j 06:38	19°♓27'55	-0°18'12
min. Earth dist.	-8460 Nov 09 j 14:36	19°♓25'17	4.30400 AU
direct	-8459 Jan 09 j 15:56	14°♓23'46	
asc. node	-8459 Feb 10 j 01:32	15°♓51'53	
	-8459 May 05 j 18:48	0°♈	
evening set	-8459 May 18 j 06:07	2°♈42'45	
conjunction	-8459 May 31 j 12:43	5°♈38'48	0°14'32
minimum elong	-8459 May 31 j 12:41	5°♈38'47	0°14'31
behind sun begin	-8459 May 31 j 09:13	5°♈36'52	
behind sun end	-8459 May 31 j 16:10	5°♈40'42	
max. Earth dist.	-8459 May 30 j 15:18	5°♈26'56	6.33156 AU

morning rise	-8459 Jun 13 j 15:47	8°♈33'03	
retrograde	-8459 Oct 12 j 05:42	25°♈48'38	
opposition	-8459 Dec 11 j 03:52	20°♈55'26	0°56'51
min. Earth dist.	-8459 Dec 11 j 23:13	20°♈49'10	4.34908 AU
direct	-8458 Feb 11 j 10:51	15°♈52'35	
	-8458 Jun 01 j 00:32	0°♉	
evening set	-8458 Jun 19 j 10:58	3°♉59'11	
max. Earth dist.	-8458 Jun 30 j 22:23	6°♉31'38	6.35426 AU
conjunction	-8458 Jul 02 j 07:43	6°♉50'08	1°01'28
minimum elong	-8458 Jul 02 j 07:38	6°♉50'05	1°01'43
morning rise	-8458 Jul 15 j 01:19	9°♉39'31	
	-8458 Aug 08 j 21:08	15°♉	
retrograde	-8458 Nov 12 j 18:52	26°♉53'18	
opposition	-8457 Jan 12 j 08:02	22°♉01'39	1°54'54
min. Earth dist.	-8457 Jan 13 j 08:45	21°♉53'46	4.34929 AU
direct	-8457 Mar 15 j 21:24	17°♉01'13	
	-8457 Jun 27 j 11:21	0°♊	
evening set	-8457 Jul 20 j 20:01	5°♊04'14	
max. Earth dist.	-8457 Jul 31 j 23:00	7°♊33'35	6.33073 AU
conjunction	-8457 Aug 02 j 08:44	7°♊52'31	1°30'36
minimum elong	-8457 Aug 02 j 08:41	7°♊52'29	1°31'05
morning rise	-8457 Aug 14 j 19:13	10°♊39'50	
retrograde	-8457 Dec 15 j 05:45	28°♊14'47	
opposition	-8456 Feb 14 j 07:59	23°♊22'54	2°20'19
min. Earth dist.	-8456 Feb 15 j 07:04	23°♊15'36	4.30452 AU
direct	-8456 Apr 16 j 12:23	18°♊25'33	
	-8456 Jul 21 j 00:57	0°♋	
evening set	-8456 Aug 20 j 01:01	6°♋33'01	
max. Earth dist.	-8456 Aug 31 j 07:36	9°♋06'58	6.26759 AU
conjunction	-8456 Sep 01 j 10:37	9°♋22'23	1°33'31
minimum elong	-8456 Sep 01 j 10:38	9°♋22'24	1°34'03
morning rise	-8456 Sep 13 j 20:04	12°♋11'47	
	-8456 Dec 31 j 10:33	0°♌	
retrograde	-8455 Jan 17 j 01:55	0°♌25'38	
	-8455 Feb 02 j 17:27	30°℞♋	
opposition	-8455 Mar 19 j 10:51	25°♋31'34	2°03'59
min. Earth dist.	-8455 Mar 20 j 00:48	25°♋27'07	4.22710 AU
direct	-8455 May 19 j 16:12	20°♋36'55	
	-8455 Aug 10 j 19:29	0°♌	
evening set	-8455 Sep 20 j 20:01	8°♌55'41	
conjunction	-8455 Oct 03 j 09:16	11°♌50'05	1°07'41
minimum elong	-8455 Oct 03 j 09:20	11°♌50'08	1°08'08
max. Earth dist.	-8455 Oct 02 j 23:38	11°♌44'30	6.18303 AU
morning rise	-8455 Oct 15 j 23:55	14°♌45'26	
	-8455 Oct 17 j 01:12	15°♌	
	-8454 Jan 01 j 10:03	0°♍	
retrograde	-8454 Feb 21 j 08:48	3°♍46'14	
	-8454 Apr 14 j 08:38	30°℞♌	
opposition	-8454 Apr 23 j 15:40	28°♌48'42	1°06'53
min. Earth dist.	-8454 Apr 23 j 15:41	28°♌48'42	4.14080 AU
direct	-8454 Jun 22 j 14:10	23°♌55'42	
	-8454 Aug 25 j 15:12	0°♍	
evening set	-8454 Oct 23 j 22:45	12°♍30'42	
conjunction	-8454 Nov 05 j 19:51	15°♍32'03	0°18'53
minimum elong	-8454 Nov 05 j 19:53	15°♍32'05	0°19'06
max. Earth dist.	-8454 Nov 06 j 05:27	15°♍37'42	6.10349 AU
morning rise	-8454 Nov 18 j 20:08	18°♍35'10	
	-8453 Jan 10 j 16:55	0°♎	
desc. node	-8453 Mar 19 j 01:14	8°♎06'51	
retrograde	-8453 Mar 29 j 15:57	8°♎17'37	
opposition	-8453 May 29 j 13:12	3°♎16'05	-0°15'28
min. Earth dist.	-8453 May 28 j 22:33	3°♎20'55	4.07447 AU

Attention, astronomical year style is used: The year -8453 in astronomical counting style is the year 8454 BCE in historical counting style.

	-8453 Jun 25 j 17:38	30°℞♍		
direct	-8453 Jul 27 j 07:39	28°♍22'52		
	-8453 Aug 27 j 16:52	0°♎		
evening set	-8453 Nov 27 j 19:19	17°♎15'32		
conjunction	-8453 Dec 11 j 01:27	20°♎22'51	-0°37'38	
minimum elong	-8453 Dec 11 j 01:24	20°♎22'49	0°37'47	
max. Earth dist.	-8453 Dec 12 j 07:17	20°♎40'27	6.05656 AU	
morning rise	-8453 Dec 24 j 10:56	23°♎32'01		
	-8452 Jan 21 j 21:42	0°♏		
retrograde	-8452 May 04 j 06:32	13°♏34'49		
opposition	-8452 Jul 03 j 10:54	8°♏30'24	-1°33'48	
min. Earth dist.	-8452 Jul 02 j 12:08	8°♏38'05	4.05249 AU	
direct	-8452 Aug 30 j 14:51	3°♏35'03		
	-8452 Nov 29 j 01:00	15°♏		
evening set	-8451 Jan 02 j 05:14	22°♏40'33		
conjunction	-8451 Jan 15 j 17:56	25°♏50'26	-1°20'55	
minimum elong	-8451 Jan 15 j 17:51	25°♏50'23	1°21'20	
max. Earth dist.	-8451 Jan 17 j 07:19	26°♏12'19	6.06009 AU	
morning rise	-8451 Jan 29 j 09:33	29°♏01'41		
	-8451 Feb 02 j 14:15	0°♐		
retrograde	-8451 Jun 09 j 01:11	18°♐52'51		
opposition	-8451 Aug 07 j 15:13	13°♐47'48	-2°17'21	
min. Earth dist.	-8451 Aug 06 j 15:27	13°♐55'56	4.08258 AU	
direct	-8451 Oct 04 j 21:56	8°♐49'04		
evening set	-8450 Feb 08 j 04:37	27°♐55'40		
	-8450 Feb 17 j 04:58	0°♑		
conjunction	-8450 Feb 21 j 21:16	1°♑04'44	-1°34'20	
minimum elong	-8450 Feb 21 j 21:16	1°♑04'44	1°34'53	
max. Earth dist.	-8450 Feb 23 j 05:43	1°♑23'27	6.11300 AU	
morning rise	-8450 Mar 07 j 14:52	4°♑14'10		
retrograde	-8450 Jul 13 j 12:32	23°♑25'29		
opposition	-8450 Sep 10 j 16:26	18°♑22'18	-2°10'54	
min. Earth dist.	-8450 Sep 10 j 01:23	18°♑27'27	4.15301 AU	
direct	-8450 Nov 08 j 20:03	13°♑20'21		
	-8449 Mar 06 j 11:08	0°♒		
evening set	-8449 Mar 16 j 12:32	2°♒14'42		
conjunction	-8449 Mar 30 j 05:49	5°♒20'36	-1°14'25	
minimum elong	-8449 Mar 30 j 05:55	5°♒20'38	1°14'53	
max. Earth dist.	-8449 Mar 30 j 21:17	5°♒29'20	6.19520 AU	
morning rise	-8449 Apr 12 j 22:01	8°♒25'47		
	-8449 May 13 j 03:11	15°♒		
retrograde	-8449 Aug 15 j 09:25	26°♒45'53		
opposition	-8449 Oct 13 j 13:55	21°♒46'14	-1°20'55	
min. Earth dist.	-8449 Oct 13 j 10:25	21°♒47'24	4.23842 AU	
direct	-8449 Dec 12 j 22:00	16°♒42'20		
	-8448 Mar 25 j 23:05	0°♓		
evening set	-8448 Apr 19 j 10:47	5°♓17'35		
conjunction	-8448 May 03 j 00:11	8°♓18'34	-0°30'34	
minimum elong	-8448 May 03 j 00:14	8°♓18'36	0°30'50	
max. Earth dist.	-8448 May 02 j 17:38	8°♓14'56	6.27809 AU	
morning rise	-8448 May 16 j 10:53	11°♓18'05		
retrograde	-8448 Sep 15 j 06:02	28°♓55'09		
opposition	-8448 Nov 13 j 16:52	23°♓59'21	-0°07'29	
min. Earth dist.	-8448 Nov 14 j 03:29	23°♓55'51	4.31121 AU	
asc. node	-8448 Dec 21 j 18:46	19°♓46'17		
direct	-8447 Jan 14 j 06:52	18°♓55'17		
	-8447 Apr 18 j 15:25	0°♈		
evening set	-8447 May 22 j 19:16	7°♈12'41		
max. Earth dist.	-8447 Jun 04 j 00:50	9°♈54'52	6.33559 AU	
conjunction	-8447 Jun 05 j 00:39	10°♈08'03	0°21'40	
minimum elong	-8447 Jun 05 j 00:37	10°♈08'02	0°21'43	

morning rise	-8447 Jun 18 j 02:27	13°♈01'37		
	-8447 Oct 03 j 16:57	0°♉		
retrograde	-8447 Oct 16 j 13:54	0°♉16'07		
	-8447 Oct 29 j 11:57	30°℞♈		
opposition	-8447 Dec 15 j 14:41	25°♈23'13	1°06'23	
min. Earth dist.	-8447 Dec 16 j 10:38	25°♈16'45	4.35000 AU	
direct	-8446 Feb 15 j 22:40	20°♈20'37		
	-8446 May 14 j 09:49	0°♉		
evening set	-8446 Jun 23 j 21:09	8°♉26'57		
max. Earth dist.	-8446 Jul 05 j 07:24	10°♉58'56	6.35196 AU	
conjunction	-8446 Jul 06 j 16:39	11°♉17'26	1°06'50	
minimum elong	-8446 Jul 06 j 16:34	11°♉17'24	1°07'09	
morning rise	-8446 Jul 19 j 09:00	14°♉06'24		
	-8446 Jul 23 j 10:16	15°♉		
	-8446 Oct 18 j 11:17	0°♊		
retrograde	-8446 Nov 17 j 06:55	1°♊22'24		
	-8446 Dec 17 j 06:40	30°℞♉		
opposition	-8445 Jan 16 j 21:41	26°♉30'54	2°00'42	
min. Earth dist.	-8445 Jan 17 j 22:46	26°♉22'54	4.34420 AU	
direct	-8445 Mar 20 j 11:10	21°♉30'55		
	-8445 Jun 09 j 05:53	0°♊		
evening set	-8445 Jul 25 j 05:10	9°♊34'30		
max. Earth dist.	-8445 Aug 05 j 06:55	12°♊03'32	6.32316 AU	
conjunction	-8445 Aug 06 j 17:01	12°♊22'43	1°32'42	
minimum elong	-8445 Aug 06 j 16:59	12°♊22'42	1°33'12	
morning rise	-8445 Aug 19 j 03:07	15°♊10'08		
	-8445 Nov 06 j 06:12	0°♋		
retrograde	-8445 Dec 19 j 21:47	2°♋49'47		
	-8444 Feb 02 j 10:21	30°℞♊		
opposition	-8444 Feb 19 j 01:22	27°♊57'40	2°20'37	
min. Earth dist.	-8444 Feb 19 j 22:57	27°♊50'49	4.29528 AU	
direct	-8444 Apr 21 j 02:54	23°♊00'41		
	-8444 Jul 01 j 16:40	0°♋		
evening set	-8444 Aug 24 j 11:05	11°♋09'13		
conjunction	-8444 Sep 05 j 20:56	13°♋59'03	1°31'34	
minimum elong	-8444 Sep 05 j 20:58	13°♋59'04	1°32'07	
max. Earth dist.	-8444 Sep 04 j 21:37	13°♋45'43	6.25762 AU	
morning rise	-8444 Sep 18 j 06:34	16°♋48'59		
	-8444 Nov 22 j 17:28	0°♌		
retrograde	-8443 Jan 21 j 22:27	5°♌08'28		
opposition	-8443 Mar 24 j 07:44	0°♌13'59	1°58'12	
min. Earth dist.	-8443 Mar 24 j 19:51	0°♌10'08	4.21707 AU	
	-8443 Mar 26 j 03:39	30°℞♋		
direct	-8443 May 24 j 09:17	25°♋19'40		
	-8443 Jul 19 j 20:16	0°♌		
evening set	-8443 Sep 25 j 08:58	13°♌39'31		
	-8443 Oct 01 j 04:01	15°♌		
conjunction	-8443 Oct 07 j 22:55	16°♌34'40	1°01'59	
minimum elong	-8443 Oct 07 j 22:59	16°♌34'42	1°02'24	
max. Earth dist.	-8443 Oct 07 j 14:59	16°♌30'03	6.17382 AU	
morning rise	-8443 Oct 20 j 14:50	19°♌30'56		
	-8443 Dec 08 j 08:02	0°♍		
retrograde	-8442 Feb 26 j 07:47	8°♍36'58		
opposition	-8442 Apr 28 j 14:43	3°♍38'46	0°56'22	
min. Earth dist.	-8442 Apr 28 j 12:00	3°♍39'38	4.13296 AU	
	-8442 May 30 j 11:52	30°℞♌		
direct	-8442 Jun 27 j 09:12	28°♌45'48		
	-8442 Jul 25 j 02:33	0°♍		
evening set	-8442 Oct 28 j 15:50	17°♍21'56		
conjunction	-8442 Nov 10 j 14:16	20°♍24'06	0°11'06	
minimum elong	-8442 Nov 10 j 14:17	20°♍24'06	0°11'15	
behind sun begin	-8442 Nov 10 j 08:16	20°♍20'35		

Attention, astronomical year style is used: The year -8442 in astronomical counting style is the year 8443 BCE in historical counting style.

behind sun end	-8442 Nov 10 j 20:18	20°♍27'38	
max. Earth dist.	-8442 Nov 11 j 04:08	20°♍32'15	6.09780 AU
morning rise	-8442 Nov 23 j 15:42	23°♍27'59	
	-8442 Dec 22 j 12:23	0°♎	
desc. node	-8441 Jan 27 j 13:42	7°♎02'55	
retrograde	-8441 Apr 03 j 17:18	13°♎13'28	
opposition	-8441 Jun 03 j 12:13	8°♎11'26	-0°27'14
min. Earth dist.	-8441 Jun 02 j 20:48	8°♎16'33	4.07147 AU
direct	-8441 Aug 01 j 04:41	3°♎18'01	
evening set	-8441 Dec 02 j 17:20	22°♎11'46	
conjunction	-8441 Dec 16 j 00:18	25°♎19'28	-0°44'49
minimum elong	-8441 Dec 16 j 00:14	25°♎19'26	0°44'59
max. Earth dist.	-8441 Dec 17 j 06:12	25°♎37'06	6.05622 AU
morning rise	-8441 Dec 29 j 10:55	28°♎29'04	
	-8440 Jan 04 j 23:11	0°♏	
	-8440 Mar 21 j 19:19	15°♏	
retrograde	-8440 May 09 j 04:07	18°♏31'22	
	-8440 Jun 26 j 15:09	15°℞♏	
min. Earth dist.	-8440 Jul 07 j 07:32	13°♏34'47	4.05506 AU
opposition	-8440 Jul 08 j 07:25	13°♏26'42	-1°42'20
direct	-8440 Sep 04 j 10:13	8°♏30'53	
	-8440 Nov 08 j 19:55	15°♏	
evening set	-8439 Jan 07 j 05:58	27°♏36'57	
	-8439 Jan 17 j 11:16	0°♐	
conjunction	-8439 Jan 20 j 19:27	0°♐46'53	-1°24'44
minimum elong	-8439 Jan 20 j 19:23	0°♐46'50	1°25'11
max. Earth dist.	-8439 Jan 22 j 08:59	1°♐08'50	6.06517 AU
morning rise	-8439 Feb 03 j 11:24	3°♐58'02	
retrograde	-8439 Jun 13 j 21:15	23°♐45'18	
min. Earth dist.	-8439 Aug 11 j 10:46	18°♐47'50	4.08965 AU
opposition	-8439 Aug 12 j 08:35	18°♐40'23	-2°19'28
direct	-8439 Oct 09 j 17:46	13°♐41'10	
	-8438 Jan 31 j 21:58	0°♑	
evening set	-8438 Feb 13 j 04:58	2°♑47'10	
conjunction	-8438 Feb 26 j 21:57	5°♑56'01	-1°33'28
minimum elong	-8438 Feb 26 j 21:59	5°♑56'02	1°34'01
max. Earth dist.	-8438 Feb 28 j 04:35	6°♑13'39	6.12141 AU
morning rise	-8438 Mar 12 j 15:39	9°♑05'06	
retrograde	-8438 Jul 18 j 02:09	28°♑10'30	
opposition	-8438 Sep 15 j 06:14	23°♑07'46	-2°06'16
min. Earth dist.	-8438 Sep 14 j 15:57	23°♑12'39	4.16205 AU
direct	-8438 Nov 13 j 12:11	18°♑05'30	
	-8437 Feb 17 j 06:49	0°♒	
evening set	-8437 Mar 21 j 10:05	6°♒58'29	
conjunction	-8437 Apr 04 j 03:05	10°♒03'56	-1°09'27
minimum elong	-8437 Apr 04 j 03:10	10°♒03'58	1°09'55
max. Earth dist.	-8437 Apr 04 j 14:42	10°♒10'29	6.20435 AU
morning rise	-8437 Apr 17 j 18:54	13°♒08'34	
	-8437 Apr 26 j 02:58	15°♒	
	-8437 Jul 21 j 14:29	0°♓	
retrograde	-8437 Aug 19 j 21:48	1°♓23'05	
	-8437 Sep 18 j 00:07	30°℞♒	
opposition	-8437 Oct 18 j 01:32	26°♒24'01	-1°11'38
min. Earth dist.	-8437 Oct 18 j 00:48	26°♒24'15	4.24676 AU
direct	-8437 Dec 17 j 14:43	21°♒20'01	
	-8436 Mar 07 j 10:49	0°♓	
evening set	-8436 Apr 24 j 04:03	9°♓53'39	
conjunction	-8436 May 07 j 16:47	12°♓54'05	-0°23'26
minimum elong	-8436 May 07 j 16:49	12°♓54'06	0°23'40
max. Earth dist.	-8436 May 07 j 08:43	12°♓49'36	6.28522 AU
morning rise	-8436 May 21 j 02:23	15°♓52'54	
	-8436 Aug 03 j 04:54	0°♈	
retrograde	-8436 Sep 19 j 14:33	3°♈26'25	
asc. node	-8436 Nov 01 j 10:03	0°♈38'52	
	-8436 Nov 06 j 17:31	30°℞♓	
opposition	-8436 Nov 18 j 03:45	28°♓31'05	0°03'17
min. Earth dist.	-8436 Nov 18 j 14:46	28°♓27'28	4.31672 AU
direct	-8435 Jan 18 j 19:38	23°♓27'12	
	-8435 Mar 29 j 17:15	0°♈	
evening set	-8435 May 27 j 08:34	11°♈43'17	
max. Earth dist.	-8435 Jun 08 j 10:53	14°♈23'44	6.33913 AU
conjunction	-8435 Jun 09 j 12:31	14°♈37'56	0°28'44
minimum elong	-8435 Jun 09 j 12:28	14°♈37'55	0°28'48
morning rise	-8435 Jun 22 j 13:04	17°♈30'50	
	-8435 Aug 25 j 06:21	0°♉	
retrograde	-8435 Oct 21 j 00:54	4°♉44'30	
	-8435 Dec 19 j 01:35	30°℞♈	
opposition	-8435 Dec 20 j 02:38	29°♈51'55	1°15'34
min. Earth dist.	-8435 Dec 21 j 00:04	29°♈45'00	4.35138 AU
direct	-8434 Feb 20 j 13:12	24°♈49'40	
	-8434 Apr 23 j 04:20	0°♉	
evening set	-8434 Jun 28 j 07:20	12°♉55'08	
	-8434 Jul 07 j 16:32	15°♉	
max. Earth dist.	-8434 Jul 09 j 15:57	15°♉26'23	6.35084 AU
conjunction	-8434 Jul 11 j 01:36	15°♉45'07	1°11'51
minimum elong	-8434 Jul 11 j 01:32	15°♉45'04	1°12'12
morning rise	-8434 Jul 23 j 16:48	18°♉33'39	
	-8434 Sep 18 j 15:43	0°♊	
retrograde	-8434 Nov 21 j 18:01	5°♊51'28	
opposition	-8433 Jan 21 j 11:31	0°♊59'56	2°05'48
min. Earth dist.	-8433 Jan 22 j 11:38	0°♊52'16	4.34078 AU
	-8433 Jan 29 j 09:01	30°℞♉	
direct	-8433 Mar 24 j 23:21	26°♉00'21	
	-8433 May 17 j 09:53	0°♊	
evening set	-8433 Jul 29 j 13:49	14°♊03'47	
max. Earth dist.	-8433 Aug 09 j 16:47	16°♊33'45	6.31750 AU
conjunction	-8433 Aug 11 j 01:00	16°♊51'55	1°34'16
minimum elong	-8433 Aug 11 j 00:58	16°♊51'54	1°34'46
morning rise	-8433 Aug 23 j 10:30	19°♊39'19	
	-8433 Oct 12 j 06:55	0°♋	
retrograde	-8433 Dec 24 j 14:01	7°♋23'04	
opposition	-8432 Feb 23 j 18:16	2°♋30'46	2°20'04
min. Earth dist.	-8432 Feb 24 j 15:33	2°♋24'01	4.28747 AU
	-8432 Mar 15 j 13:38	30°℞♊	
direct	-8432 Apr 25 j 17:55	27°♊34'13	
	-8432 Jun 05 j 08:08	0°♋	
evening set	-8432 Aug 28 j 20:11	15°♋43'20	
max. Earth dist.	-8432 Sep 09 j 07:21	18°♋20'34	6.24814 AU
conjunction	-8432 Sep 10 j 06:07	18°♋33'37	1°29'05
minimum elong	-8432 Sep 10 j 06:10	18°♋33'39	1°29'38
morning rise	-8432 Sep 22 j 16:23	21°♋24'11	
	-8432 Nov 01 j 10:47	0°♌	
retrograde	-8431 Jan 26 j 17:40	9°♌49'28	
opposition	-8431 Mar 29 j 03:42	4°♌54'29	1°51'44
min. Earth dist.	-8431 Mar 29 j 13:27	4°♌51'23	4.20637 AU
direct	-8431 May 29 j 00:29	0°♌00'26	
	-8431 Sep 15 j 03:16	15°♌	
evening set	-8431 Sep 29 j 21:12	18°♌21'56	
conjunction	-8431 Oct 12 j 12:15	21°♌17'59	0°55'55
minimum elong	-8431 Oct 12 j 12:20	21°♌18'02	0°56'18
max. Earth dist.	-8431 Oct 12 j 08:06	21°♌15'34	6.16299 AU
morning rise	-8431 Oct 25 j 05:10	24°♌15'13	
	-8431 Nov 19 j 17:15	0°♍	
retrograde	-8430 Mar 03 j 07:59	13°♍27'13	

Attention, astronomical year style is used: The year -8430 in astronomical counting style is the year 8431 BCE in historical counting style.

opposition	-8430 May 03 j 13:10	8°♍28'32	0°45'31
min. Earth dist.	-8430 May 03 j 09:34	8°♍29'42	4.12268 AU
direct	-8430 Jul 02 j 04:25	3°♍35'37	
evening set	-8430 Nov 02 j 09:42	22°♍14'17	
conjunction	-8430 Nov 15 j 09:14	25°♍17'21	0°03'14
minimum elong	-8430 Nov 15 j 09:14	25°♍17'20	0°03'20
behind sun begin	-8430 Nov 15 j 01:09	25°♍12'36	
behind sun end	-8430 Nov 15 j 17:20	25°♍22'05	
max. Earth dist.	-8430 Nov 16 j 00:07	25°♍26'05	6.08899 AU
morning rise	-8430 Nov 28 j 12:12	28°♍22'15	
	-8430 Dec 05 j 12:22	0°♎	
desc. node	-8430 Dec 07 j 16:17	0°♎29'56	
retrograde	-8429 Apr 08 j 17:46	18°♎11'57	
opposition	-8429 Jun 08 j 11:28	13°♎09'28	-0°38'53
min. Earth dist.	-8429 Jun 07 j 17:49	13°♎15'20	4.06501 AU
direct	-8429 Aug 06 j 00:21	8°♎15'47	
evening set	-8429 Dec 07 j 16:59	27°♎12'14	
	-8429 Dec 19 j 14:14	0°♏	
conjunction	-8429 Dec 21 j 01:09	0°♏20'35	-0°51'45
minimum elong	-8429 Dec 21 j 01:04	0°♏20'32	0°51'58
max. Earth dist.	-8429 Dec 22 j 09:19	0°♏39'32	6.05256 AU
morning rise	-8428 Jan 03 j 12:38	3°♏30'42	
	-8428 Feb 25 j 11:16	15°♏	
retrograde	-8428 May 14 j 05:53	23°♏33'46	
min. Earth dist.	-8428 Jul 12 j 06:42	18°♏36'45	4.05459 AU
opposition	-8428 Jul 13 j 05:53	18°♏28'53	-1°50'17
	-8428 Aug 10 j 21:13	15°℞♏	
direct	-8428 Sep 09 j 08:56	13°♏32'36	
	-8428 Oct 08 j 21:03	15°♏	
	-8428 Dec 31 j 19:03	0°♐	
evening set	-8427 Jan 12 j 09:40	2°♐40'24	
conjunction	-8427 Jan 25 j 23:50	5°♐50'29	-1°28'00
minimum elong	-8427 Jan 25 j 23:46	5°♐50'27	1°28'28
max. Earth dist.	-8427 Jan 27 j 13:16	6°♐12'20	6.06773 AU
morning rise	-8427 Feb 08 j 16:20	9°♐01'42	
retrograde	-8427 Jun 18 j 18:02	28°♐45'29	
min. Earth dist.	-8427 Aug 16 j 06:21	23°♐48'15	4.09517 AU
opposition	-8427 Aug 17 j 04:17	23°♐40'45	-2°20'39
direct	-8427 Oct 14 j 14:13	18°♐41'05	
	-8426 Jan 13 j 22:59	0°♑	
evening set	-8426 Feb 18 j 08:54	7°♑47'02	
conjunction	-8426 Mar 04 j 02:05	10°♑55'39	-1°31'54
minimum elong	-8426 Mar 04 j 02:08	10°♑55'41	1°32'27
max. Earth dist.	-8426 Mar 05 j 05:46	11°♑11'33	6.12942 AU
morning rise	-8426 Mar 17 j 19:52	14°♑04'23	
	-8426 Jun 08 j 12:40	0°♒	
retrograde	-8426 Jul 22 j 20:13	3°♒03'42	
	-8426 Sep 05 j 00:48	30°℞♑	
opposition	-8426 Sep 19 j 23:03	28°♑01'24	-2°00'39
min. Earth dist.	-8426 Sep 19 j 10:49	28°♑05'34	4.17171 AU
direct	-8426 Nov 18 j 09:49	22°♑58'48	
	-8425 Jan 27 j 22:37	0°♒	
evening set	-8425 Mar 26 j 10:24	11°♒49'53	
conjunction	-8425 Apr 09 j 03:18	14°♒54'49	-1°03'55
minimum elong	-8425 Apr 09 j 03:23	14°♒54'51	1°04'21
	-8425 Apr 09 j 12:30	15°♒	
max. Earth dist.	-8425 Apr 09 j 14:04	15°♒00'53	6.21536 AU
morning rise	-8425 Apr 22 j 18:24	17°♒58'44	
	-8425 Jun 20 j 19:48	0°♓	
retrograde	-8425 Aug 24 j 10:34	6°♓06'45	
opposition	-8425 Oct 22 j 15:39	1°♓08'14	-1°01'42
min. Earth dist.	-8425 Oct 22 j 15:18	1°♓08'21	4.25830 AU
	-8425 Oct 31 j 05:05	30°℞♒	
direct	-8425 Dec 22 j 08:02	26°♒04'12	
	-8424 Feb 12 j 13:42	0°♓	
evening set	-8424 Apr 28 j 23:12	14°♓34'44	
conjunction	-8424 May 12 j 10:43	17°♓34'14	-0°16'05
minimum elong	-8424 May 12 j 10:44	17°♓34'15	0°16'15
max. Earth dist.	-8424 May 11 j 23:29	17°♓28'00	6.29668 AU
morning rise	-8424 May 25 j 19:18	20°♓32'07	
	-8424 Jul 10 j 11:07	0°♈	
asc. node	-8424 Sep 11 j 10:18	7°♈44'54	
retrograde	-8424 Sep 24 j 01:55	8°♈00'34	
opposition	-8424 Nov 22 j 16:06	3°♈05'40	0°14'05
min. Earth dist.	-8424 Nov 23 j 05:03	3°♈01'25	4.32733 AU
	-8424 Dec 18 j 03:05	30°℞♓	
direct	-8423 Jan 23 j 12:37	28°♓01'53	
	-8423 Mar 01 j 05:21	0°♈	
evening set	-8423 May 31 j 21:53	16°♈14'35	
max. Earth dist.	-8423 Jun 12 j 22:48	18°♈54'02	6.34808 AU
conjunction	-8423 Jun 14 j 00:32	19°♈08'17	0°35'35
minimum elong	-8423 Jun 14 j 00:29	19°♈08'15	0°35'42
morning rise	-8423 Jun 26 j 23:30	22°♈00'11	
	-8423 Aug 04 j 03:28	0°♉	
retrograde	-8423 Oct 25 j 08:28	9°♉11'14	
opposition	-8423 Dec 24 j 13:57	4°♉18'51	1°24'08
min. Earth dist.	-8423 Dec 25 j 11:01	4°♉12'04	4.35825 AU
	-8422 Feb 03 j 04:31	30°℞♈	
direct	-8422 Feb 25 j 01:02	29°♈16'54	
	-8422 Mar 19 j 02:22	0°♉	
	-8422 Jun 22 j 00:39	15°♉	
evening set	-8422 Jul 02 j 15:54	17°♉19'32	
max. Earth dist.	-8422 Jul 13 j 22:21	19°♉49'37	6.35487 AU
conjunction	-8422 Jul 15 j 08:44	20°♉08'46	1°16'19
minimum elong	-8422 Jul 15 j 08:39	20°♉08'43	1°16'42
morning rise	-8422 Jul 27 j 22:50	22°♉56'38	
	-8422 Aug 30 j 03:07	0°♊	
retrograde	-8422 Nov 26 j 04:51	10°♊14'47	
opposition	-8421 Jan 25 j 23:35	5°♊23'16	2°09'58
min. Earth dist.	-8421 Jan 27 j 00:48	5°♊15'15	4.34166 AU
direct	-8421 Mar 29 j 12:21	0°♊24'02	
evening set	-8421 Aug 02 j 19:24	18°♊25'49	
max. Earth dist.	-8421 Aug 13 j 21:46	20°♊55'35	6.31494 AU
conjunction	-8421 Aug 15 j 06:00	21°♊13'46	1°35'12
minimum elong	-8421 Aug 15 j 05:58	21°♊13'45	1°35'44
morning rise	-8421 Aug 27 j 15:10	24°♊01'07	
	-8421 Sep 24 j 02:41	0°♋	
retrograde	-8421 Dec 29 j 01:05	11°♋48'07	
opposition	-8420 Feb 28 j 07:53	6°♋55'31	2°18'39
min. Earth dist.	-8420 Feb 29 j 03:43	6°♋49'14	4.28163 AU
direct	-8420 Apr 30 j 03:55	1°♋59'18	
evening set	-8420 Sep 02 j 02:04	20°♋08'37	
conjunction	-8420 Sep 14 j 12:21	22°♋59'23	1°26'08
minimum elong	-8420 Sep 14 j 12:25	22°♋59'25	1°26'40
max. Earth dist.	-8420 Sep 13 j 15:40	22°♋47'30	6.23957 AU
morning rise	-8420 Sep 26 j 23:02	25°♋50'32	
	-8420 Oct 15 j 11:58	0°♌	
retrograde	-8419 Jan 31 j 11:10	14°♌21'25	
opposition	-8419 Apr 02 j 20:10	9°♌26'03	1°44'45
min. Earth dist.	-8419 Apr 03 j 05:55	9°♌22'56	4.19538 AU
direct	-8419 Jun 02 j 14:18	4°♌32'12	
	-8419 Aug 29 j 10:51	15°♌	
evening set	-8419 Oct 04 j 06:39	22°♌55'54	

Attention, astronomical year style is used: The year -8419 in astronomical counting style is the year 8420 BCE in historical counting style.

conjunction	-8419 Oct 16 j 22:39	25°♌52'56	0°49'41
minimum elong	-8419 Oct 16 j 22:43	25°♌52'59	0°50'04
max. Earth dist.	-8419 Oct 16 j 19:05	25°♌50'51	6.15067 AU
morning rise	-8419 Oct 29 j 17:00	28°♌51'19	
	-8419 Nov 03 j 15:55	0°♍	
retrograde	-8418 Mar 08 j 03:52	18°♍10'01	
opposition	-8418 May 08 j 08:33	13°♍10'50	0°34'40
min. Earth dist.	-8418 May 08 j 02:38	13°♍12'45	4.11003 AU
direct	-8418 Jul 06 j 18:33	8°♍17'56	
desc. node	-8418 Oct 19 j 05:57	22°♍40'22	
evening set	-8418 Nov 07 j 01:31	27°♍00'28	
	-8418 Nov 19 j 18:34	0°♎	
conjunction	-8418 Nov 20 j 02:28	0°♎04'38	-0°04'36
minimum elong	-8418 Nov 20 j 02:27	0°♎04'38	0°04'32
behind sun begin	-8418 Nov 19 j 18:27	29°♍59'56	
behind sun end	-8418 Nov 20 j 10:26	0°♎09'19	
max. Earth dist.	-8418 Nov 20 j 20:13	0°♎15'06	6.07731 AU
morning rise	-8418 Dec 03 j 06:40	3°♎10'40	
retrograde	-8417 Apr 13 j 19:35	23°♎05'57	
opposition	-8417 Jun 13 j 09:05	18°♎03'04	-0°50'01
min. Earth dist.	-8417 Jun 12 j 15:16	18°♎09'01	4.05546 AU
direct	-8417 Aug 10 j 19:51	13°♎09'09	
	-8417 Dec 03 j 09:21	0°♏	
evening set	-8417 Dec 12 j 16:16	2°♏09'50	
conjunction	-8417 Dec 26 j 01:30	5°♏18'56	-0°58'10
minimum elong	-8417 Dec 26 j 01:25	5°♏18'53	0°58'26
max. Earth dist.	-8417 Dec 27 j 11:11	5°♏38'48	6.04604 AU
morning rise	-8416 Jan 08 j 14:06	8°♏29'48	
	-8416 Feb 06 j 05:08	15°♏	
retrograde	-8416 May 19 j 05:54	28°♏34'24	
min. Earth dist.	-8416 Jul 17 j 03:03	23°♏37'42	4.05221 AU
opposition	-8416 Jul 18 j 03:24	23°♏29'25	-1°57'17
direct	-8416 Sep 14 j 04:15	18°♏32'46	
	-8416 Dec 14 j 01:24	0°♐	
evening set	-8415 Jan 17 j 13:37	7°♐43'08	
conjunction	-8415 Jan 31 j 04:25	10°♐53'26	-1°30'32
minimum elong	-8415 Jan 31 j 04:22	10°♐53'25	1°31'01
max. Earth dist.	-8415 Feb 01 j 17:02	11°♐14'48	6.06952 AU
morning rise	-8415 Feb 13 j 21:29	14°♐04'45	
	-8415 May 05 j 03:09	0°♑	
retrograde	-8415 Jun 23 j 15:35	3°♑45'10	
	-8415 Aug 12 j 05:20	30°℞♐	
opposition	-8415 Aug 21 j 23:56	28°♐40'35	-2°20'43
min. Earth dist.	-8415 Aug 21 j 02:54	28°♐47'47	4.10091 AU
direct	-8415 Oct 19 j 12:59	23°♐40'27	
	-8415 Dec 23 j 22:58	0°♑	
evening set	-8414 Feb 23 j 12:18	12°♑45'55	
conjunction	-8414 Mar 09 j 05:53	15°♑54'17	-1°29'38
minimum elong	-8414 Mar 09 j 05:56	15°♑54'19	1°30'11
max. Earth dist.	-8414 Mar 10 j 09:48	16°♑10'16	6.13871 AU
morning rise	-8414 Mar 22 j 23:27	19°♑02'32	
	-8414 May 13 j 20:29	0°♒	
retrograde	-8414 Jul 27 j 12:53	7°♒55'01	
opposition	-8414 Sep 24 j 15:12	2°♒53'11	-1°54'11
min. Earth dist.	-8414 Sep 24 j 03:40	2°♒57'06	4.18331 AU
	-8414 Oct 17 j 07:29	30°℞♑	
direct	-8414 Nov 23 j 05:22	27°♑50'17	
	-8414 Dec 30 j 14:24	0°♒	
	-8413 Mar 24 j 00:11	15°♒	
evening set	-8413 Mar 31 j 09:34	16°♒38'30	
conjunction	-8413 Apr 14 j 01:50	19°♒42'41	-0°57'59
minimum elong	-8413 Apr 14 j 01:55	19°♒42'44	0°58'24
max. Earth dist.	-8413 Apr 14 j 08:45	19°♒46'34	6.22812 AU
morning rise	-8413 Apr 27 j 16:26	22°♒45'49	
	-8413 May 31 j 08:47	0°♓	
retrograde	-8413 Aug 28 j 22:44	10°♓46'54	
opposition	-8413 Oct 27 j 04:28	5°♓48'50	-0°51'29
min. Earth dist.	-8413 Oct 27 j 06:19	5°♓48'13	4.27066 AU
direct	-8413 Dec 27 j 01:47	0°♓44'39	
evening set	-8412 May 03 j 16:13	19°♓11'51	
conjunction	-8412 May 17 j 02:49	22°♓10'29	-0°08'42
minimum elong	-8412 May 17 j 02:49	22°♓10'30	0°08'51
behind sun begin	-8412 May 16 j 19:48	22°♓06'37	
behind sun end	-8412 May 17 j 09:50	22°♓14'22	
max. Earth dist.	-8412 May 16 j 14:29	22°♓03'39	6.30760 AU
morning rise	-8412 May 30 j 09:59	25°♓07'24	
	-8412 Jun 22 j 00:24	0°♈	
asc. node	-8412 Jul 22 j 01:51	5°♈49'48	
retrograde	-8412 Sep 28 j 10:24	12°♈31'24	
opposition	-8412 Nov 27 j 03:03	7°♈36'56	0°24'43
min. Earth dist.	-8412 Nov 27 j 16:52	7°♈32'24	4.33579 AU
direct	-8411 Jan 28 j 01:31	2°♈33'21	
evening set	-8411 Jun 05 j 09:43	20°♈43'33	
max. Earth dist.	-8411 Jun 17 j 05:54	23°♈20'26	6.35316 AU
conjunction	-8411 Jun 18 j 10:47	23°♈36'25	0°42'13
minimum elong	-8411 Jun 18 j 10:44	23°♈36'23	0°42'23
morning rise	-8411 Jul 01 j 08:33	26°♈27'35	
	-8411 Jul 17 j 16:10	0°♉	
retrograde	-8411 Oct 29 j 19:06	13°♉37'49	
opposition	-8411 Dec 29 j 01:27	8°♉45'40	1°32'19
min. Earth dist.	-8411 Dec 30 j 00:27	8°♉38'16	4.35969 AU
direct	-8410 Mar 01 j 14:34	3°♉44'00	
	-8410 Jun 05 j 05:11	15°♉	
evening set	-8410 Jul 07 j 00:26	21°♉45'44	
max. Earth dist.	-8410 Jul 18 j 06:12	24°♉15'35	6.35238 AU
conjunction	-8410 Jul 19 j 16:17	24°♉34'34	1°20'27
minimum elong	-8410 Jul 19 j 16:13	24°♉34'32	1°20'51
morning rise	-8410 Aug 01 j 05:16	27°♉22'06	
	-8410 Aug 13 j 05:04	0°♊	
retrograde	-8410 Nov 30 j 15:31	14°♊42'57	
opposition	-8409 Jan 30 j 13:13	9°♊51'23	2°13'36
min. Earth dist.	-8409 Jan 31 j 13:34	9°♊43'39	4.33559 AU
direct	-8409 Apr 02 j 23:32	4°♊52'35	
evening set	-8409 Aug 07 j 03:32	22°♊55'06	
max. Earth dist.	-8409 Aug 18 j 05:57	25°♊25'17	6.30569 AU
conjunction	-8409 Aug 19 j 13:37	25°♊43'11	1°35'40
minimum elong	-8409 Aug 19 j 13:36	25°♊43'11	1°36'13
morning rise	-8409 Aug 31 j 22:38	28°♊30'51	
	-8409 Sep 07 j 14:03	0°♋	
retrograde	-8408 Jan 02 j 19:09	16°♋23'27	
opposition	-8408 Mar 04 j 01:40	11°♋30'35	2°16'28
min. Earth dist.	-8408 Mar 04 j 21:33	11°♋24'16	4.26967 AU
direct	-8408 May 04 j 19:50	6°♋34'42	
evening set	-8408 Sep 06 j 12:14	24°♋46'05	
conjunction	-8408 Sep 18 j 23:03	27°♋37'38	1°22'34
minimum elong	-8408 Sep 18 j 23:07	27°♋37'40	1°23'04
max. Earth dist.	-8408 Sep 18 j 03:52	27°♋26'36	6.22602 AU
	-8408 Sep 29 j 06:41	0°♌	
morning rise	-8408 Oct 01 j 10:35	0°♌29'43	
	-8408 Dec 13 j 20:10	15°♌	
retrograde	-8407 Feb 05 j 08:03	19°♌07'48	
	-8407 Apr 01 j 11:36	15°℞♌	
opposition	-8407 Apr 07 j 18:08	14°♌11'58	1°36'47
min. Earth dist.	-8407 Apr 08 j 01:01	14°♌09'46	4.18128 AU

Attention, astronomical year style is used: The year -8407 in astronomical counting style is the year 8408 BCE in historical counting style.

direct	-8407 Jun 07 j 06:48	9°♌18'22	
	-8407 Aug 08 j 15:32	15°♌	
evening set	-8407 Oct 08 j 21:58	27°♌45'06	
	-8407 Oct 18 j 13:18	0°♍	
conjunction	-8407 Oct 21 j 15:09	0°♍43'13	0°42'49
minimum elong	-8407 Oct 21 j 15:13	0°♍43'15	0°43'08
max. Earth dist.	-8407 Oct 21 j 15:02	0°♍43'09	6.13753 AU
morning rise	-8407 Nov 03 j 10:45	3°♍42'45	
retrograde	-8406 Mar 13 j 07:57	23°♍08'06	
opposition	-8406 May 13 j 09:46	18°♍08'24	0°22'58
min. Earth dist.	-8406 May 13 j 02:31	18°♍10'46	4.09904 AU
direct	-8406 Jul 11 j 16:50	13°♍15'30	
desc. node	-8406 Aug 28 j 17:08	16°♍52'44	
	-8406 Nov 03 j 07:42	0°♎	
evening set	-8406 Nov 11 j 23:27	2°♎01'03	
conjunction	-8406 Nov 25 j 01:39	5°♎06'07	-0°12'38
minimum elong	-8406 Nov 25 j 01:38	5°♎06'06	0°12'37
behind sun begin	-8406 Nov 24 j 20:23	5°♎03'01	
behind sun end	-8406 Nov 25 j 06:53	5°♎09'11	
max. Earth dist.	-8406 Nov 25 j 22:30	5°♎18'25	6.06979 AU
morning rise	-8406 Dec 08 j 07:17	8°♎13'05	
retrograde	-8405 Apr 18 j 22:43	28°♎11'21	
opposition	-8405 Jun 18 j 10:38	23°♎08'04	-1°01'15
min. Earth dist.	-8405 Jun 17 j 14:30	23°♎14'48	4.05273 AU
direct	-8405 Aug 15 j 18:02	18°♎13'54	
	-8405 Nov 15 j 16:59	0°♏	
evening set	-8405 Dec 17 j 19:27	7°♏16'02	
conjunction	-8405 Dec 31 j 05:31	10°♏25'24	-1°04'22
minimum elong	-8405 Dec 31 j 05:26	10°♏25'21	1°04'41
max. Earth dist.	-8404 Jan 01 j 16:26	10°♏45'58	6.04817 AU
morning rise	-8404 Jan 13 j 18:57	13°♏36'27	
	-8404 Jan 19 j 18:38	15°♏	
	-8404 Apr 05 j 05:12	0°♐	
retrograde	-8404 May 24 j 05:54	3°♐38'34	
	-8404 Jul 12 j 08:19	30°℞♏	
min. Earth dist.	-8404 Jul 22 j 01:39	28°♏41'46	4.05914 AU
opposition	-8404 Jul 23 j 02:08	28°♏33'25	-2°03'29
direct	-8404 Sep 19 j 04:49	23°♏36'15	
	-8404 Nov 23 j 06:10	0°♐	
evening set	-8403 Jan 22 j 17:38	12°♐45'25	
conjunction	-8403 Feb 05 j 09:03	15°♐55'25	-1°32'26
minimum elong	-8403 Feb 05 j 09:01	15°♐55'24	1°32'58
max. Earth dist.	-8403 Feb 06 j 22:50	16°♐17'23	6.08054 AU
morning rise	-8403 Feb 19 j 02:10	19°♐06'13	
	-8403 Apr 10 j 16:53	0°♑	
retrograde	-8403 Jun 28 j 10:30	8°♑39'21	
opposition	-8403 Aug 26 j 17:24	3°♑35'02	-2°19'45
min. Earth dist.	-8403 Aug 25 j 21:20	3°♑41'54	4.11489 AU
	-8403 Sep 25 j 02:26	30°℞♐	
direct	-8403 Oct 24 j 09:32	28°♐34'28	
	-8403 Nov 22 j 23:55	0°♑	
evening set	-8402 Feb 28 j 12:52	17°♑36'31	
conjunction	-8402 Mar 14 j 06:17	20°♑44'10	-1°26'51
minimum elong	-8402 Mar 14 j 06:21	20°♑44'12	1°27'22
max. Earth dist.	-8402 Mar 15 j 06:09	20°♑57'47	6.15422 AU
morning rise	-8402 Mar 27 j 23:45	23°♑51'38	
	-8402 Apr 24 j 21:07	0°♒	
retrograde	-8402 Aug 01 j 00:15	12°♒35'27	
opposition	-8402 Sep 29 j 03:20	7°♒34'03	-1°47'11
min. Earth dist.	-8402 Sep 28 j 17:48	7°♒37'17	4.19872 AU
direct	-8402 Nov 27 j 22:08	2°♒30'48	
	-8401 Mar 07 j 06:09	15°♒	
evening set	-8401 Apr 05 j 03:51	21°♒15'09	
conjunction	-8401 Apr 18 j 19:42	24°♒18'33	-0°51'56
minimum elong	-8401 Apr 18 j 19:47	24°♒18'36	0°52'17
max. Earth dist.	-8401 Apr 19 j 00:07	24°♒21'02	6.24234 AU
morning rise	-8401 May 02 j 09:21	27°♒20'44	
	-8401 May 14 j 10:18	0°♓	
retrograde	-8401 Sep 02 j 06:31	15°♓15'06	
opposition	-8401 Oct 31 j 13:10	10°♓17'36	-0°41'22
min. Earth dist.	-8401 Oct 31 j 17:13	10°♓16'15	4.28230 AU
direct	-8401 Dec 31 j 14:13	5°♓13'24	
evening set	-8400 May 08 j 04:50	23°♓37'48	
conjunction	-8400 May 21 j 14:12	26°♓35'38	-0°01'33
minimum elong	-8400 May 21 j 14:12	26°♓35'38	0°01'39
behind sun begin	-8400 May 21 j 06:00	26°♓31'07	
behind sun end	-8400 May 21 j 22:24	26°♓40'10	
max. Earth dist.	-8400 May 20 j 21:18	26°♓26'16	6.31562 AU
asc. node	-8400 Jun 02 j 01:43	29°♓08'16	
morning rise	-8400 Jun 03 j 20:20	29°♓31'46	
	-8400 Jun 05 j 23:38	0°♈	
retrograde	-8400 Oct 02 j 17:06	16°♈52'55	
opposition	-8400 Dec 01 j 10:58	11°♈58'50	0°34'50
min. Earth dist.	-8400 Dec 02 j 03:09	11°♈53'33	4.33982 AU
direct	-8399 Feb 01 j 12:11	6°♈55'24	
evening set	-8399 Jun 09 j 18:33	25°♈04'53	
conjunction	-8399 Jun 22 j 18:29	27°♈57'15	0°48'25
minimum elong	-8399 Jun 22 j 18:25	27°♈57'13	0°48'37
max. Earth dist.	-8399 Jun 21 j 12:57	27°♈40'53	6.35281 AU
	-8399 Jul 02 j 00:03	0°♉	
morning rise	-8399 Jul 05 j 14:49	0°♉47'53	
	-8399 Sep 19 j 14:44	15°♉	
retrograde	-8399 Nov 03 j 02:38	17°♉59'21	
	-8399 Dec 18 j 10:23	15°℞♉	
opposition	-8398 Jan 02 j 11:11	13°♉07'26	1°39'50
min. Earth dist.	-8398 Jan 03 j 10:40	12°♉59'54	4.35526 AU