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

opposition	-8900 Mar 05 j 12:01	9°♓27'24	2°44'26		conjunction	-8894 Sep 18 j 11:19	23°♓37'07	2°32'26	
min. Earth dist.	-8900 Mar 05 j 13:02	9°♓27'20	29.28408 AU		minimum elong	-8894 Sep 18 j 11:20	23°♓37'07	2°32'58	
direct	-8900 May 24 j 23:44	8°♓03'55			max. Earth dist.	-8894 Sep 18 j 16:00	23°♓37'33	31.26337 AU	
evening set	-8900 Aug 21 j 06:31	9°♓58'14			morning rise	-8894 Oct 03 j 11:41	24°♓11'00		
					retrograde	-8894 Dec 31 j 16:53	26°♓06'57		
conjunction	-8900 Sep 05 j 05:59	10°♓31'59	2°34'07		opposition	-8893 Mar 22 j 07:23	24°♓43'45	2°42'21	
minimum elong	-8900 Sep 05 j 05:59	10°♓31'59	2°34'40		min. Earth dist.	-8893 Mar 22 j 02:03	24°♓44'07	29.26265 AU	
max. Earth dist.	-8900 Sep 05 j 05:57	10°♓31'59	31.28034 AU		direct	-8893 Jun 10 j 07:25	23°♓20'43		
morning rise	-8900 Sep 20 j 05:17	11°♓05'45			evening set	-8893 Sep 05 j 20:58	25°♓14'28		
retrograde	-8900 Dec 17 j 19:45	13°♓00'52							
opposition	-8899 Mar 08 j 00:56	11°♓37'56	2°44'51		conjunction	-8893 Sep 20 j 20:36	25°♓48'15	2°31'23	
min. Earth dist.	-8899 Mar 08 j 00:44	11°♓37'57	29.28117 AU		minimum elong	-8893 Sep 20 j 20:37	25°♓48'15	2°31'55	
direct	-8899 May 27 j 12:25	10°♓14'32			max. Earth dist.	-8893 Sep 21 j 02:42	25°♓48'50	31.25728 AU	
evening set	-8899 Aug 23 j 15:21	12°♓08'46			morning rise	-8893 Oct 05 j 21:07	26°♓22'09		
					retrograde	-8892 Jan 03 j 03:57	28°♓18'13		
conjunction	-8899 Sep 07 j 14:34	12°♓42'31	2°34'23		opposition	-8892 Mar 23 j 20:18	26°♓54'56	2°41'07	
minimum elong	-8899 Sep 07 j 14:34	12°♓42'31	2°34'58		min. Earth dist.	-8892 Mar 23 j 13:37	26°♓55'23	29.25577 AU	
max. Earth dist.	-8899 Sep 07 j 14:43	12°♓42'32	31.27790 AU		direct	-8892 Jun 11 j 18:52	25°♓31'54		
morning rise	-8899 Sep 22 j 14:06	13°♓16'18			evening set	-8892 Sep 07 j 06:02	27°♓25'33		
retrograde	-8899 Dec 20 j 08:55	15°♓11'34							
opposition	-8898 Mar 10 j 13:55	13°♓48'36	2°45'01		conjunction	-8892 Sep 22 j 05:41	27°♓59'21	2°30'07	
min. Earth dist.	-8898 Mar 10 j 12:04	13°♓48'43	29.27908 AU		minimum elong	-8892 Sep 22 j 05:42	27°♓59'21	2°30'39	
direct	-8898 May 29 j 22:43	12°♓25'15			max. Earth dist.	-8892 Sep 22 j 11:35	27°♓59'54	31.24989 AU	
evening set	-8898 Aug 26 j 00:09	14°♓19'26			morning rise	-8892 Oct 07 j 06:40	28°♓33'17		
						-8892 Nov 22 j 23:23	0°♌		
conjunction	-8898 Sep 09 j 23:27	14°♓53'11	2°34'26		retrograde	-8891 Jan 04 j 16:53	0°♌29'27		
minimum elong	-8898 Sep 09 j 23:27	14°♓53'11	2°35'00			-8891 Feb 18 j 02:34	30°℞♓		
max. Earth dist.	-8898 Sep 10 j 01:34	14°♓53'23	31.27594 AU		opposition	-8891 Mar 26 j 09:26	29°♓06'03	2°39'39	
morning rise	-8898 Sep 24 j 22:57	15°♓26'59			min. Earth dist.	-8891 Mar 26 j 02:21	29°♓06'32	29.24794 AU	
retrograde	-8898 Dec 22 j 19:02	17°♓22'23			direct	-8891 Jun 14 j 05:06	27°♓43'02		
opposition	-8897 Mar 13 j 02:58	15°♓59'23	2°44'58		evening set	-8891 Sep 09 j 14:45	29°♓36'33		
min. Earth dist.	-8897 Mar 13 j 00:47	15°♓59'32	29.27719 AU			-8891 Sep 20 j 01:18	0°♌		
direct	-8897 Jun 01 j 10:52	14°♓36'08							
evening set	-8897 Aug 28 j 09:02	16°♓30'14			conjunction	-8891 Sep 24 j 14:45	0°♌10'22	2°28'38	
					minimum elong	-8891 Sep 24 j 14:46	0°♌10'22	2°29'10	
conjunction	-8897 Sep 12 j 08:15	17°♓03'59	2°34'16		max. Earth dist.	-8891 Sep 24 j 22:40	0°♌11'07	31.24174 AU	
minimum elong	-8897 Sep 12 j 08:15	17°♓03'59	2°34'50		morning rise	-8891 Oct 09 j 15:55	0°♌44'19		
max. Earth dist.	-8897 Sep 12 j 10:45	17°♓04'13	31.27408 AU		retrograde	-8890 Jan 07 j 04:30	2°♌40'35		
morning rise	-8897 Sep 27 j 08:00	17°♓37'48			opposition	-8890 Mar 28 j 22:32	1°♌17'05	2°37'57	
retrograde	-8897 Dec 25 j 07:16	19°♓33'21			min. Earth dist.	-8890 Mar 28 j 14:29	1°♌17'38	29.23956 AU	
opposition	-8896 Mar 14 j 15:55	18°♓10'19	2°44'40			-8890 May 28 j 14:45	30°℞♓		
min. Earth dist.	-8896 Mar 14 j 11:57	18°♓10'35	29.27509 AU		direct	-8890 Jun 16 j 17:18	29°♓54'03		
direct	-8896 Jun 02 j 22:52	16°♓47'08				-8890 Jul 05 j 12:37	0°♌		
evening set	-8896 Aug 29 j 17:58	18°♓41'10			evening set	-8890 Sep 11 j 23:42	1°♌47'28		
conjunction	-8896 Sep 13 j 17:13	19°♓14'56	2°33'53		conjunction	-8890 Sep 26 j 23:48	2°♌21'18	2°26'57	
minimum elong	-8896 Sep 13 j 17:14	19°♓14'56	2°34'26		minimum elong	-8890 Sep 26 j 23:48	2°♌21'18	2°27'28	
max. Earth dist.	-8896 Sep 13 j 20:51	19°♓15'16	31.27153 AU		max. Earth dist.	-8890 Sep 27 j 07:46	2°♌22'03	31.23350 AU	
morning rise	-8896 Sep 28 j 17:05	19°♓48'46			morning rise	-8890 Oct 12 j 01:29	2°♌55'17		
retrograde	-8896 Dec 26 j 18:23	21°♓44'28			retrograde	-8889 Jan 09 j 17:46	4°♌51'38		
opposition	-8895 Mar 17 j 05:01	20°♓21'24	2°44'07		opposition	-8889 Mar 31 j 11:27	3°♌28'02	2°36'02	
min. Earth dist.	-8895 Mar 17 j 01:21	20°♓21'38	29.27215 AU		min. Earth dist.	-8889 Mar 31 j 01:56	3°♌28'41	29.23153 AU	
direct	-8895 Jun 05 j 09:56	18°♓58'17			direct	-8889 Jun 19 j 03:21	2°♌05'01		
evening set	-8895 Sep 01 j 02:58	20°♓52'13			evening set	-8889 Sep 14 j 08:30	3°♌58'20		
conjunction	-8895 Sep 16 j 02:18	21°♓25'59	2°33'16		conjunction	-8889 Sep 29 j 08:59	4°♌32'11	2°25'03	
minimum elong	-8895 Sep 16 j 02:18	21°♓25'59	2°33'49		minimum elong	-8889 Sep 29 j 08:59	4°♌32'11	2°25'33	
max. Earth dist.	-8895 Sep 16 j 06:48	21°♓26'25	31.26814 AU		max. Earth dist.	-8889 Sep 29 j 18:47	4°♌33'07	31.22568 AU	
morning rise	-8895 Oct 01 j 02:19	21°♓59'51			morning rise	-8889 Oct 14 j 10:58	5°♌06'12		
retrograde	-8895 Dec 29 j 05:15	23°♓55'41			retrograde	-8888 Jan 12 j 04:36	7°♌02'40		
opposition	-8894 Mar 19 j 18:07	22°♓32'33	2°43'21		opposition	-8888 Apr 02 j 00:24	5°♌38'59	2°33'54	
min. Earth dist.	-8894 Mar 19 j 12:37	22°♓32'56	29.26807 AU		min. Earth dist.	-8888 Apr 01 j 14:26	5°♌39'40	29.22407 AU	
direct	-8894 Jun 07 j 21:40	21°♓09'29			direct	-8888 Jun 20 j 15:27	4°♌15'59		
evening set	-8894 Sep 03 j 11:58	23°♓03'20			evening set	-8888 Sep 15 j 17:21	6°♌09'13		

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

conjunction	-8888 Sep 30 j 18:03	6°♌43'06	2°22'56
minimum elong	-8888 Sep 30 j 18:04	6°♌43'06	2°23'25
max. Earth dist.	-8888 Oct 01 j 04:32	6°♌44'05	31.21879 AU
morning rise	-8888 Oct 15 j 20:30	7°♌17'09	
retrograde	-8887 Jan 13 j 17:33	9°♌13'43	
opposition	-8887 Apr 04 j 13:12	7°♌49'59	2°31'31
min. Earth dist.	-8887 Apr 04 j 01:10	7°♌50'48	29.21758 AU
direct	-8887 Jun 23 j 03:15	6°♌27'02	
evening set	-8887 Sep 18 j 02:15	8°♌20'11	
conjunction	-8887 Oct 03 j 03:16	8°♌54'07	2°20'37
minimum elong	-8887 Oct 03 j 03:17	8°♌54'07	2°21'06
max. Earth dist.	-8887 Oct 03 j 15:00	8°♌55'13	31.21276 AU
morning rise	-8887 Oct 18 j 06:12	9°♌28'13	
retrograde	-8886 Jan 16 j 05:18	11°♌24'55	
opposition	-8886 Apr 07 j 02:16	10°♌01'08	2°28'56
min. Earth dist.	-8886 Apr 06 j 14:11	10°♌01'57	29.21196 AU
direct	-8886 Jun 25 j 13:59	8°♌38'15	
evening set	-8886 Sep 20 j 11:03	10°♌31'20	
conjunction	-8886 Oct 05 j 12:32	11°♌05'17	2°18'05
minimum elong	-8886 Oct 05 j 12:32	11°♌05'17	2°18'34
max. Earth dist.	-8886 Oct 06 j 01:36	11°♌06'31	31.20761 AU
morning rise	-8886 Oct 20 j 15:54	11°♌39'26	
retrograde	-8885 Jan 18 j 16:29	13°♌36'16	
opposition	-8885 Apr 09 j 15:09	12°♌12'28	2°26'07
min. Earth dist.	-8885 Apr 09 j 01:03	12°♌13'25	29.20689 AU
direct	-8885 Jun 28 j 01:24	10°♌49'39	
evening set	-8885 Sep 22 j 20:09	12°♌42'41	
conjunction	-8885 Oct 07 j 21:54	13°♌16'40	2°15'22
minimum elong	-8885 Oct 07 j 21:54	13°♌16'40	2°15'49
max. Earth dist.	-8885 Oct 08 j 11:12	13°♌17'55	31.20265 AU
morning rise	-8885 Oct 23 j 01:54	13°♌50'52	
	-8885 Nov 27 j 00:38	15°♌	
retrograde	-8884 Jan 21 j 04:22	15°♌47'50	
	-8884 Mar 19 j 05:50	15°℞♌	
opposition	-8884 Apr 11 j 04:03	14°♌24'01	2°23'05
min. Earth dist.	-8884 Apr 10 j 14:04	14°♌24'57	29.20193 AU
direct	-8884 Jun 29 j 10:33	13°♌01'16	
evening set	-8884 Sep 24 j 05:11	14°♌54'14	
	-8884 Sep 26 j 19:25	15°♌	
conjunction	-8884 Oct 09 j 07:29	15°♌28'16	2°12'26
minimum elong	-8884 Oct 09 j 07:30	15°♌28'16	2°12'52
max. Earth dist.	-8884 Oct 09 j 22:28	15°♌29'41	31.19761 AU
morning rise	-8884 Oct 24 j 11:52	16°♌02'30	
retrograde	-8883 Jan 22 j 16:06	17°♌59'37	
opposition	-8883 Apr 13 j 17:00	16°♌35'46	2°19'51
min. Earth dist.	-8883 Apr 13 j 01:38	16°♌36'49	29.19648 AU
direct	-8883 Jul 01 j 21:27	15°♌13'06	
evening set	-8883 Sep 26 j 14:23	17°♌06'00	
conjunction	-8883 Oct 11 j 16:56	17°♌40'04	2°09'18
minimum elong	-8883 Oct 11 j 16:57	17°♌40'04	2°09'44
max. Earth dist.	-8883 Oct 12 j 07:39	17°♌41'27	31.19186 AU
morning rise	-8883 Oct 26 j 22:03	18°♌14'22	
retrograde	-8882 Jan 25 j 05:35	20°♌11'37	
opposition	-8882 Apr 16 j 06:08	18°♌47'43	2°16'24
min. Earth dist.	-8882 Apr 15 j 14:35	18°♌48'46	29.19024 AU
direct	-8882 Jul 04 j 07:06	17°♌25'05	
evening set	-8882 Sep 28 j 23:40	19°♌17'56	
conjunction	-8882 Oct 14 j 02:51	19°♌52'02	2°05'59
minimum elong	-8882 Oct 14 j 02:52	19°♌52'02	2°06'23
max. Earth dist.	-8882 Oct 14 j 19:09	19°♌53'35	31.18501 AU
morning rise	-8882 Oct 29 j 08:23	20°♌26'23	
retrograde	-8881 Jan 27 j 17:52	22°♌23'45	
opposition	-8881 Apr 18 j 19:04	20°♌59'48	2°12'45
min. Earth dist.	-8881 Apr 18 j 03:04	21°♌00'53	29.18261 AU
direct	-8881 Jul 06 j 18:12	19°♌37'11	
evening set	-8881 Oct 01 j 09:08	21°♌29'58	
conjunction	-8881 Oct 16 j 12:42	22°♌04'07	2°02'29
minimum elong	-8881 Oct 16 j 12:42	22°♌04'07	2°02'53
max. Earth dist.	-8881 Oct 17 j 04:27	22°♌05'36	31.17680 AU
morning rise	-8881 Oct 31 j 18:59	22°♌38'30	
retrograde	-8880 Jan 30 j 07:40	24°♌35'58	
opposition	-8880 Apr 20 j 08:03	23°♌11'56	2°08'55
min. Earth dist.	-8880 Apr 19 j 15:14	23°♌13'05	29.17362 AU
direct	-8880 Jul 08 j 03:47	21°♌49'20	
evening set	-8880 Oct 02 j 18:27	23°♌42'01	
conjunction	-8880 Oct 17 j 22:35	24°♌16'12	1°58'48
minimum elong	-8880 Oct 17 j 22:36	24°♌16'12	1°59'11
max. Earth dist.	-8880 Oct 18 j 15:29	24°♌17'48	31.16708 AU
morning rise	-8880 Nov 02 j 05:24	24°♌50'39	
retrograde	-8879 Jan 31 j 19:40	26°♌48'11	
opposition	-8879 Apr 22 j 21:02	25°♌24'03	2°04'54
min. Earth dist.	-8879 Apr 22 j 04:20	25°♌25'12	29.16318 AU
direct	-8879 Jul 10 j 16:10	24°♌01'26	
evening set	-8879 Oct 05 j 03:51	25°♌54'02	
conjunction	-8879 Oct 20 j 08:31	26°♌28'15	1°54'57
minimum elong	-8879 Oct 20 j 08:31	26°♌28'15	1°55'19
max. Earth dist.	-8879 Oct 21 j 01:41	26°♌29'52	31.15639 AU
morning rise	-8879 Nov 04 j 16:02	27°♌02'45	
retrograde	-8878 Feb 03 j 09:56	29°♌00'20	
opposition	-8878 Apr 25 j 09:52	27°♌36'06	2°00'41
min. Earth dist.	-8878 Apr 24 j 15:42	27°♌37'20	29.15206 AU
direct	-8878 Jul 13 j 04:25	26°♌13'26	
evening set	-8878 Oct 07 j 13:13	28°♌05'56	
conjunction	-8878 Oct 22 j 18:25	28°♌40'12	1°50'56
minimum elong	-8878 Oct 22 j 18:26	28°♌40'12	1°51'17
max. Earth dist.	-8878 Oct 23 j 12:20	28°♌41'54	31.14508 AU
morning rise	-8878 Nov 07 j 02:39	29°♌14'45	
	-8878 Nov 28 j 18:50	0°♍	
retrograde	-8877 Feb 05 j 21:39	1°♍12'24	
	-8877 Apr 20 j 14:23	30°℞♌	
opposition	-8877 Apr 27 j 22:44	29°♌48'02	1°56'19
min. Earth dist.	-8877 Apr 27 j 04:57	29°♌49'15	29.14071 AU
direct	-8877 Jul 15 j 15:31	28°♌25'21	
	-8877 Oct 01 j 18:27	0°♍	
evening set	-8877 Oct 09 j 22:38	0°♍17'45	
conjunction	-8877 Oct 25 j 04:29	0°♍52'03	1°46'46
minimum elong	-8877 Oct 25 j 04:30	0°♍52'03	1°47'05
max. Earth dist.	-8877 Oct 25 j 23:34	0°♍53'51	31.13396 AU
morning rise	-8877 Nov 09 j 13:18	1°♍26'39	
retrograde	-8876 Feb 08 j 09:07	3°♍24'20	
opposition	-8876 Apr 29 j 11:13	1°♍59'53	1°51'46
min. Earth dist.	-8876 Apr 28 j 15:38	2°♍01'13	29.12977 AU
direct	-8876 Jul 17 j 03:41	0°♍37'11	
evening set	-8876 Oct 11 j 08:10	2°♍29'30	
conjunction	-8876 Oct 26 j 14:27	3°♍03'51	1°42'26
minimum elong	-8876 Oct 26 j 14:28	3°♍03'51	1°42'44
max. Earth dist.	-8876 Oct 27 j 09:38	3°♍05'40	31.12344 AU
morning rise	-8876 Nov 11 j 00:04	3°♍38'30	
retrograde	-8875 Feb 09 j 21:18	5°♍36'15	
opposition	-8875 May 01 j 23:59	4°♍11'43	1°47'03
min. Earth dist.	-8875 May 01 j 04:25	4°♍13'03	29.11973 AU
direct	-8875 Jul 19 j 13:48	2°♍49'01	

Attention, astronomical year style is used: The year -8875 in astronomical counting style is the year 8876 BCE in historical counting style.

evening set	-8875 Oct 13 j 17:29	4°♑41'14	
conjunction	-8875 Oct 29 j 00:32	5°♑15'38	1°37'57
minimum elong	-8875 Oct 29 j 00:33	5°♑15'39	1°38'15
max. Earth dist.	-8875 Oct 29 j 21:35	5°♑17'38	31.11398 AU
morning rise	-8875 Nov 13 j 10:41	5°♑50'21	
retrograde	-8874 Feb 12 j 08:45	7°♑48'11	
opposition	-8874 May 04 j 12:37	6°♑23'35	1°42'11
min. Earth dist.	-8874 May 03 j 15:28	6°♑25'02	29.11063 AU
direct	-8874 Jul 22 j 01:20	5°♑00'53	
evening set	-8874 Oct 16 j 03:11	6°♑53'04	
conjunction	-8874 Oct 31 j 10:42	7°♑27'30	1°33'19
minimum elong	-8874 Oct 31 j 10:43	7°♑27'30	1°33'36
max. Earth dist.	-8874 Nov 01 j 07:34	7°♑29'29	31.10546 AU
morning rise	-8874 Nov 15 j 21:44	8°♑02'17	
retrograde	-8873 Feb 14 j 21:28	10°♑00'12	
min. Earth dist.	-8873 May 06 j 03:45	8°♑37'01	29.10253 AU
opposition	-8873 May 07 j 01:09	8°♑35'33	1°37'09
direct	-8873 Jul 24 j 10:24	7°♑12'53	
evening set	-8873 Oct 18 j 12:48	9°♑05'01	
conjunction	-8873 Nov 02 j 21:05	9°♑39'31	1°28'32
minimum elong	-8873 Nov 02 j 21:06	9°♑39'31	1°28'49
max. Earth dist.	-8873 Nov 03 j 19:43	9°♑41'39	31.09769 AU
morning rise	-8873 Nov 18 j 08:42	10°♑14'20	
retrograde	-8872 Feb 17 j 09:04	12°♑12'21	
opposition	-8872 May 08 j 13:41	10°♑47'40	1°31'58
min. Earth dist.	-8872 May 07 j 15:42	10°♑49'11	29.09487 AU
direct	-8872 Jul 25 j 20:54	9°♑25'02	
evening set	-8872 Oct 19 j 22:36	11°♑17'09	
conjunction	-8872 Nov 04 j 07:22	11°♑51'42	1°23'37
minimum elong	-8872 Nov 04 j 07:23	11°♑51'42	1°23'52
max. Earth dist.	-8872 Nov 05 j 05:43	11°♑53'48	31.09031 AU
morning rise	-8872 Nov 19 j 19:48	12°♑26'35	
retrograde	-8871 Feb 18 j 23:16	14°♑24'42	
min. Earth dist.	-8871 May 10 j 03:27	13°♑01'33	29.08747 AU
opposition	-8871 May 11 j 02:15	12°♑59'59	1°26'39
direct	-8871 Jul 28 j 05:59	11°♑37'23	
evening set	-8871 Oct 22 j 08:33	13°♑29'29	
conjunction	-8871 Nov 06 j 18:01	14°♑04'05	1°18'35
minimum elong	-8871 Nov 06 j 18:02	14°♑04'05	1°18'49
max. Earth dist.	-8871 Nov 07 j 17:27	14°♑06'18	31.08279 AU
morning rise	-8871 Nov 22 j 07:05	14°♑39'02	
retrograde	-8870 Feb 21 j 11:55	16°♑37'15	
opposition	-8870 May 13 j 14:50	15°♑12'31	1°21'11
min. Earth dist.	-8870 May 12 j 16:21	15°♑14'03	29.07969 AU
direct	-8870 Jul 30 j 17:18	13°♑49'56	
evening set	-8870 Oct 24 j 18:41	15°♑42'01	
conjunction	-8870 Nov 09 j 04:49	16°♑16'40	1°13'25
minimum elong	-8870 Nov 09 j 04:50	16°♑16'40	1°13'37
max. Earth dist.	-8870 Nov 10 j 04:16	16°♑18'53	31.07483 AU
morning rise	-8870 Nov 24 j 18:39	16°♑51'41	
retrograde	-8869 Feb 24 j 03:03	18°♑49'59	
min. Earth dist.	-8869 May 15 j 03:49	17°♑26'49	29.07117 AU
opposition	-8869 May 16 j 03:20	17°♑25'13	1°15'37
direct	-8869 Aug 02 j 04:52	16°♑02'39	
evening set	-8869 Oct 27 j 05:04	17°♑54'43	
conjunction	-8869 Nov 11 j 15:46	18°♑29'26	1°08'09
minimum elong	-8869 Nov 11 j 15:47	18°♑29'26	1°08'20
max. Earth dist.	-8869 Nov 12 j 15:17	18°♑31'39	31.06571 AU
morning rise	-8869 Nov 27 j 06:19	19°♑04'30	
retrograde	-8868 Feb 26 j 15:31	21°♑02'52	
opposition	-8868 May 17 j 15:50	19°♑38'03	1°09'55
min. Earth dist.	-8868 May 16 j 17:17	19°♑39'36	29.06147 AU
direct	-8868 Aug 03 j 15:30	18°♑15'29	
evening set	-8868 Oct 28 j 15:22	20°♑07'32	
conjunction	-8868 Nov 13 j 02:51	20°♑42'18	1°02'47
minimum elong	-8868 Nov 13 j 02:52	20°♑42'18	1°02'56
max. Earth dist.	-8868 Nov 14 j 02:57	20°♑44'34	31.05557 AU
morning rise	-8868 Nov 28 j 18:02	21°♑17'25	
retrograde	-8867 Feb 28 j 04:41	23°♑15'51	
min. Earth dist.	-8867 May 19 j 04:34	21°♑52'36	29.05065 AU
opposition	-8867 May 20 j 04:17	21°♑50'58	1°04'07
direct	-8867 Aug 06 j 03:57	20°♑28'23	
evening set	-8867 Oct 31 j 01:46	22°♑20'23	
conjunction	-8867 Nov 15 j 13:47	22°♑55'12	0°57'19
minimum elong	-8867 Nov 15 j 13:47	22°♑55'12	0°57'27
max. Earth dist.	-8867 Nov 16 j 13:17	22°♑57'25	31.04433 AU
morning rise	-8867 Dec 01 j 05:51	23°♑30'23	
retrograde	-8866 Mar 02 j 18:05	25°♑28'51	
opposition	-8866 May 22 j 16:49	24°♑03'53	0°58'14
min. Earth dist.	-8866 May 21 j 17:51	24°♑05'28	29.03902 AU
direct	-8866 Aug 08 j 14:41	22°♑41'16	
evening set	-8866 Nov 02 j 12:12	24°♑33'13	
conjunction	-8866 Nov 18 j 01:03	25°♑08'05	0°51'46
minimum elong	-8866 Nov 18 j 01:03	25°♑08'05	0°51'53
max. Earth dist.	-8866 Nov 19 j 01:50	25°♑10'25	31.03254 AU
morning rise	-8866 Dec 03 j 17:41	25°♑43'19	
retrograde	-8865 Mar 05 j 05:32	27°♑41'48	
min. Earth dist.	-8865 May 24 j 05:01	26°♑18'24	29.02705 AU
opposition	-8865 May 25 j 04:55	26°♑16'46	0°52'16
direct	-8865 Aug 11 j 02:45	24°♑54'05	
evening set	-8865 Nov 04 j 22:49	26°♑46'00	
conjunction	-8865 Nov 20 j 12:09	27°♑20'55	0°46'09
minimum elong	-8865 Nov 20 j 12:10	27°♑20'55	0°46'15
max. Earth dist.	-8865 Nov 21 j 12:17	27°♑23'11	31.02075 AU
morning rise	-8865 Dec 06 j 05:40	27°♑56'13	
retrograde	-8864 Mar 06 j 17:38	29°♑54'44	
opposition	-8864 May 26 j 17:10	28°♑29'36	0°46'13
min. Earth dist.	-8864 May 25 j 17:23	28°♑31'14	29.01555 AU
direct	-8864 Aug 12 j 12:20	27°♑06'53	
evening set	-8864 Nov 06 j 09:13	28°♑58'46	
conjunction	-8864 Nov 21 j 23:19	29°♑33'43	0°40'28
minimum elong	-8864 Nov 21 j 23:19	29°♑33'43	0°40'31
max. Earth dist.	-8864 Nov 23 j 01:03	29°♑36'09	31.00958 AU
	-8864 Dec 03 j 15:13	0°♎	
morning rise	-8864 Dec 07 j 17:20	0°♎09'04	
retrograde	-8863 Mar 09 j 04:29	2°♎07'37	
min. Earth dist.	-8863 May 28 j 05:01	0°♎44'06	29.00484 AU
opposition	-8863 May 29 j 05:19	0°♎42'25	0°40'06
	-8863 Jun 25 j 00:35	30°℞♑	
direct	-8863 Aug 14 j 22:55	29°♑19'40	
	-8863 Oct 02 j 22:09	0°♎	
evening set	-8863 Nov 08 j 19:56	1°♎11'32	
conjunction	-8863 Nov 24 j 10:35	1°♎46'32	0°34'43
minimum elong	-8863 Nov 24 j 10:36	1°♎46'32	0°34'46
max. Earth dist.	-8863 Nov 25 j 11:55	1°♎48'55	30.99959 AU
morning rise	-8863 Dec 10 j 05:25	2°♎21'56	
retrograde	-8862 Mar 11 j 18:25	4°♎20'32	
opposition	-8862 May 31 j 17:21	2°♎55'16	0°33'55
min. Earth dist.	-8862 May 30 j 16:19	2°♎57'00	28.99552 AU
direct	-8862 Aug 17 j 08:00	1°♎32'30	
evening set	-8862 Nov 11 j 06:42	3°♎24'22	

Attention, astronomical year style is used: The year -8862 in astronomical counting style is the year 8863 BCE in historical counting style.

conjunction	-8862 Nov 26 j 22:04	3°♎59'25	0°28'54
minimum elong	-8862 Nov 26 j 22:04	3°♎59'25	0°28'56
max. Earth dist.	-8862 Nov 28 j 00:26	4°♎01'54	30.99083 AU
morning rise	-8862 Dec 12 j 17:30	4°♎34'52	
retrograde	-8861 Mar 14 j 06:11	6°♎33'30	
min. Earth dist.	-8861 Jun 02 j 04:36	5°♎09'56	28.98734 AU
opposition	-8861 Jun 03 j 05:26	5°♎08'13	0°27'41
direct	-8861 Aug 19 j 19:03	3°♎45'26	
evening set	-8861 Nov 13 j 17:36	5°♎37'19	
conjunction	-8861 Nov 29 j 09:35	6°♎12'25	0°23'03
minimum elong	-8861 Nov 29 j 09:35	6°♎12'25	0°23'04
max. Earth dist.	-8861 Nov 30 j 12:05	6°♎14'54	30.98335 AU
morning rise	-8861 Dec 15 j 05:40	6°♎47'54	
retrograde	-8860 Mar 15 j 20:38	8°♎46'35	
opposition	-8860 Jun 04 j 17:18	7°♎21'17	0°21'24
min. Earth dist.	-8860 Jun 03 j 15:21	7°♎23'05	28.98033 AU
direct	-8860 Aug 21 j 05:50	5°♎58'30	
evening set	-8860 Nov 15 j 04:41	7°♎50'25	
conjunction	-8860 Nov 30 j 21:12	8°♎25'34	0°17'10
minimum elong	-8860 Nov 30 j 21:12	8°♎25'34	0°17'08
max. Earth dist.	-8860 Dec 01 j 23:57	8°♎28'04	30.97674 AU
morning rise	-8860 Dec 16 j 17:59	9°♎01'07	
retrograde	-8859 Mar 18 j 09:22	10°♎59'51	
min. Earth dist.	-8859 Jun 06 j 04:19	9°♎36'16	28.97409 AU
opposition	-8859 Jun 07 j 05:23	9°♎34'32	0°15'04
direct	-8859 Aug 23 j 15:41	8°♎11'45	
evening set	-8859 Nov 17 j 15:45	10°♎03'42	
conjunction	-8859 Dec 03 j 09:02	10°♎38'54	0°11'14
minimum elong	-8859 Dec 03 j 09:02	10°♎38'54	0°11'12
behind sun begin	-8859 Dec 03 j 04:14	10°♎38'28	
behind sun end	-8859 Dec 03 j 13:50	10°♎39'20	
max. Earth dist.	-8859 Dec 04 j 12:27	10°♎41'29	30.97081 AU
morning rise	-8859 Dec 19 j 06:21	11°♎14'30	
retrograde	-8858 Mar 20 j 23:57	13°♎13'16	
opposition	-8858 Jun 09 j 17:17	11°♎47'58	0°08'43
min. Earth dist.	-8858 Jun 08 j 15:17	11°♎49'46	28.96814 AU
direct	-8858 Aug 26 j 04:18	10°♎25'12	
evening set	-8858 Nov 20 j 03:21	12°♎17'11	
conjunction	-8858 Dec 05 j 21:03	12°♎52'26	0°05'19
minimum elong	-8858 Dec 05 j 21:04	12°♎52'26	0°05'15
behind sun begin	-8858 Dec 05 j 14:46	12°♎51'52	
behind sun end	-8858 Dec 06 j 03:22	12°♎53'00	
max. Earth dist.	-8858 Dec 06 j 23:35	12°♎54'55	30.96475 AU
morning rise	-8858 Dec 21 j 19:08	13°♎28'05	
retrograde	-8857 Mar 23 j 14:23	15°♎26'54	
min. Earth dist.	-8857 Jun 11 j 04:21	14°♎03'19	28.96194 AU
opposition	-8857 Jun 12 j 05:13	14°♎01'35	0°02'20
direct	-8857 Aug 28 j 15:03	12°♎38'49	
desc. node	-8857 Oct 24 j 00:20	13°♎31'28	
evening set	-8857 Nov 22 j 14:58	14°♎30'50	
conjunction	-8857 Dec 08 j 09:25	15°♎06'08	-0°00'45
minimum elong	-8857 Dec 08 j 09:25	15°♎06'08	0°00'50
behind sun begin	-8857 Dec 08 j 02:55	15°♎05'33	
behind sun end	-8857 Dec 08 j 15:55	15°♎06'43	
max. Earth dist.	-8857 Dec 09 j 12:41	15°♎08'42	30.95820 AU
morning rise	-8857 Dec 24 j 07:53	15°♎41'49	
retrograde	-8856 Mar 25 j 02:44	17°♎40'40	
opposition	-8856 Jun 13 j 17:06	16°♎15'21	-0°04'03
min. Earth dist.	-8856 Jun 12 j 15:48	16°♎17'06	28.95491 AU
direct	-8856 Aug 30 j 03:18	14°♎52'33	
evening set	-8856 Nov 24 j 02:42	16°♎44'37	

conjunction	-8856 Dec 09 j 21:33	17°♎19'57	-0°06'45
minimum elong	-8856 Dec 09 j 21:33	17°♎19'57	0°06'51
behind sun begin	-8856 Dec 09 j 15:30	17°♎19'24	
behind sun end	-8856 Dec 10 j 03:36	17°♎20'29	
max. Earth dist.	-8856 Dec 10 j 23:30	17°♎22'23	30.95072 AU
morning rise	-8856 Dec 25 j 20:45	17°♎55'41	
retrograde	-8855 Mar 27 j 16:05	19°♎54'33	
min. Earth dist.	-8855 Jun 15 j 04:36	18°♎30'54	28.94696 AU
opposition	-8855 Jun 16 j 05:09	18°♎29'12	-0°10'26
direct	-8855 Sep 01 j 13:27	17°♎06'22	
evening set	-8855 Nov 26 j 14:34	18°♎58'27	
conjunction	-8855 Dec 12 j 10:09	19°♎33'49	-0°12'41
minimum elong	-8855 Dec 12 j 10:09	19°♎33'49	0°12'48
behind sun begin	-8855 Dec 12 j 06:07	19°♎33'27	
behind sun end	-8855 Dec 12 j 14:11	19°♎34'11	
max. Earth dist.	-8855 Dec 13 j 12:50	19°♎36'20	30.94220 AU
morning rise	-8855 Dec 28 j 09:46	20°♎09'36	
retrograde	-8854 Mar 30 j 03:46	22°♎08'27	
opposition	-8854 Jun 18 j 16:56	20°♎43'04	-0°16'48
min. Earth dist.	-8854 Jun 17 j 16:43	20°♎44'45	28.93794 AU
direct	-8854 Sep 04 j 00:51	19°♎20'11	
evening set	-8854 Nov 29 j 02:38	21°♎12'17	
conjunction	-8854 Dec 14 j 22:41	21°♎47'41	-0°18'37
minimum elong	-8854 Dec 14 j 22:41	21°♎47'41	0°18'46
max. Earth dist.	-8854 Dec 16 j 00:08	21°♎50'04	30.93294 AU
morning rise	-8854 Dec 30 j 22:58	22°♎23'30	
retrograde	-8853 Apr 01 j 17:22	24°♎22'21	
min. Earth dist.	-8853 Jun 20 j 04:32	22°♎58'35	28.92848 AU
opposition	-8853 Jun 21 j 04:42	22°♎56'54	-0°23'08
direct	-8853 Sep 06 j 10:58	21°♎33'56	
evening set	-8853 Dec 01 j 14:39	23°♎26'04	
conjunction	-8853 Dec 17 j 11:16	24°♎01'31	-0°24'32
minimum elong	-8853 Dec 17 j 11:15	24°♎01'31	0°24'42
max. Earth dist.	-8853 Dec 18 j 13:08	24°♎03'56	30.92326 AU
morning rise	-8852 Jan 02 j 11:57	24°♎37'21	
retrograde	-8852 Apr 03 j 04:10	26°♎36'11	
opposition	-8852 Jun 22 j 16:21	25°♎10'42	-0°29'26
min. Earth dist.	-8852 Jun 21 j 16:56	25°♎12'20	28.91892 AU
direct	-8852 Sep 07 j 22:07	23°♎47'40	
evening set	-8852 Dec 03 j 02:46	25°♎39'50	
conjunction	-8852 Dec 18 j 23:54	26°♎15'18	-0°30'24
minimum elong	-8852 Dec 18 j 23:53	26°♎15'18	0°30'36
max. Earth dist.	-8852 Dec 20 j 01:26	26°♎17'42	30.91407 AU
morning rise	-8851 Jan 04 j 01:05	26°♎51'10	
retrograde	-8851 Apr 05 j 18:01	28°♎50'00	
min. Earth dist.	-8851 Jun 24 j 03:42	27°♎26'09	28.91015 AU
opposition	-8851 Jun 25 j 03:52	27°♎24'28	-0°35'42
direct	-8851 Sep 10 j 09:02	26°♎01'21	
evening set	-8851 Dec 05 j 14:59	27°♎53'35	
conjunction	-8851 Dec 21 j 12:34	28°♎29'05	-0°36'14
minimum elong	-8851 Dec 21 j 12:33	28°♎29'05	0°36'26
max. Earth dist.	-8851 Dec 22 j 14:03	28°♎31'29	30.90566 AU
morning rise	-8850 Jan 06 j 14:16	29°♎04'59	
	-8850 Feb 02 j 15:03	0°♏	
retrograde	-8850 Apr 08 j 06:16	1°♏03'49	
	-8850 Jun 14 j 13:35	30°℞♎	
opposition	-8850 Jun 27 j 15:30	29°♎38'15	-0°41'54
min. Earth dist.	-8850 Jun 26 j 16:25	29°♎39'52	28.90239 AU
direct	-8850 Sep 12 j 19:05	28°♎15'06	
	-8850 Dec 04 j 17:55	0°♏	
evening set	-8850 Dec 08 j 03:19	0°♏07'23	

Attention, astronomical year style is used: The year -8850 in astronomical counting style is the year 8851 BCE in historical counting style.

conjunction	-8850 Dec	24 j 01:30	0°♑42'56	-0°42'00
minimum elong	-8850 Dec	24 j 01:30	0°♑42'56	0°42'14
max. Earth dist.	-8850 Dec	25 j 03:23	0°♑45'21	30.89853 AU
morning rise	-8849 Jan	09 j 03:33	1°♑18'51	
retrograde	-8849 Apr	10 j 20:37	3°♑17'40	
min. Earth dist.	-8849 Jun	29 j 02:50	1°♑53'47	28.89591 AU
opposition	-8849 Jun	30 j 02:48	1°♑52'06	-0°48'03
direct	-8849 Sep	15 j 07:51	0°♑28'55	
evening set	-8849 Dec	10 j 15:52	2°♑21'18	
conjunction	-8849 Dec	26 j 14:21	2°♑56'52	-0°47'43
minimum elong	-8849 Dec	26 j 14:21	2°♑56'52	0°47'57
max. Earth dist.	-8849 Dec	27 j 15:22	2°♑59'13	30.89264 AU
morning rise	-8848 Jan	11 j 16:56	3°♑32'50	
retrograde	-8848 Apr	12 j 10:49	5°♑31'39	
opposition	-8848 Jul	01 j 14:22	4°♑06'06	-0°54'08
min. Earth dist.	-8848 Jun	30 j 15:22	4°♑07'43	28.89078 AU
direct	-8848 Sep	16 j 18:44	2°♑42'54	
evening set	-8848 Dec	12 j 04:12	4°♑35'21	
conjunction	-8848 Dec	28 j 03:19	5°♑10'59	-0°53'22
minimum elong	-8848 Dec	28 j 03:18	5°♑10'59	0°53'39
max. Earth dist.	-8848 Dec	29 j 05:14	5°♑13'24	30.88807 AU
morning rise	-8847 Jan	13 j 06:08	5°♑46'58	
retrograde	-8847 Apr	14 j 23:40	7°♑45'48	
min. Earth dist.	-8847 Jul	03 j 02:15	6°♑21'56	28.88667 AU
opposition	-8847 Jul	04 j 01:46	6°♑20'17	-1°00'08
direct	-8847 Sep	19 j 07:00	4°♑57'04	
evening set	-8847 Dec	14 j 17:05	6°♑49'38	
conjunction	-8847 Dec	30 j 16:27	7°♑25'17	-0°58'57
minimum elong	-8847 Dec	30 j 16:27	7°♑25'17	0°59'14
max. Earth dist.	-8847 Dec	31 j 17:02	7°♑27'35	30.88437 AU
morning rise	-8846 Jan	15 j 19:49	8°♑01'19	
retrograde	-8846 Apr	17 j 14:08	10°♑00'09	
opposition	-8846 Jul	06 j 13:09	8°♑34'41	-1°06'04
min. Earth dist.	-8846 Jul	05 j 14:31	8°♑36'16	28.88335 AU
direct	-8846 Sep	21 j 17:17	7°♑11'28	
evening set	-8846 Dec	17 j 06:02	9°♑04'09	
conjunction	-8845 Jan	02 j 05:58	9°♑39'50	-1°04'27
minimum elong	-8845 Jan	02 j 05:57	9°♑39'50	1°04'46
max. Earth dist.	-8845 Jan	03 j 07:12	9°♑42'12	30.88105 AU
morning rise	-8845 Jan	18 j 09:30	10°♑15'52	
retrograde	-8845 Apr	20 j 03:02	12°♑14'43	
min. Earth dist.	-8845 Jul	08 j 02:27	10°♑50'51	28.88002 AU
opposition	-8845 Jul	09 j 00:33	10°♑49'18	-1°11'53
direct	-8845 Sep	24 j 04:53	9°♑26'05	
evening set	-8845 Dec	19 j 19:12	11°♑18'52	
conjunction	-8844 Jan	04 j 19:22	11°♑54'35	-1°09'51
minimum elong	-8844 Jan	04 j 19:22	11°♑54'35	1°10'10
max. Earth dist.	-8844 Jan	05 j 19:01	11°♑56'48	30.87756 AU
morning rise	-8844 Jan	20 j 23:19	12°♑30'39	
retrograde	-8844 Apr	21 j 16:36	14°♑29'30	
opposition	-8844 Jul	10 j 11:57	13°♑04'07	-1°17'36
min. Earth dist.	-8844 Jul	09 j 14:15	13°♑05'38	28.87634 AU
direct	-8844 Sep	25 j 15:19	11°♑40'52	
evening set	-8844 Dec	21 j 08:30	13°♑33'46	
conjunction	-8843 Jan	06 j 09:06	14°♑09'30	-1°15'08
minimum elong	-8843 Jan	06 j 09:06	14°♑09'30	1°15'29
max. Earth dist.	-8843 Jan	07 j 08:39	14°♑11'42	30.87332 AU
morning rise	-8843 Jan	22 j 13:14	14°♑45'35	
	-8843 Jan	29 j 05:20	15°♑	
retrograde	-8843 Apr	24 j 03:33	16°♑44'25	
opposition	-8843 Jul	12 j 23:22	15°♑19'03	-1°23'12
min. Earth dist.	-8843 Jul	12 j 03:00	15°♑20'29	28.87169 AU
	-8843 Jul	24 j 07:59	15°℞♑	
direct	-8843 Sep	28 j 02:17	13°♑55'45	
	-8843 Nov	30 j 02:47	15°♑	
evening set	-8843 Dec	23 j 21:56	15°♑48'45	
conjunction	-8842 Jan	08 j 22:56	16°♑24'30	-1°20'19
minimum elong	-8842 Jan	08 j 22:55	16°♑24'30	1°20'40
max. Earth dist.	-8842 Jan	09 j 21:10	16°♑26'35	30.86819 AU
morning rise	-8842 Jan	25 j 03:24	17°♑00'36	
retrograde	-8842 Apr	26 j 17:48	18°♑59'24	
opposition	-8842 Jul	15 j 10:44	17°♑34'02	-1°28'41
min. Earth dist.	-8842 Jul	14 j 14:20	17°♑35'29	28.86602 AU
direct	-8842 Sep	30 j 13:13	16°♑10'39	
evening set	-8842 Dec	26 j 11:35	18°♑03'44	
conjunction	-8841 Jan	11 j 12:51	18°♑39'31	-1°25'23
minimum elong	-8841 Jan	11 j 12:50	18°♑39'31	1°25'46
max. Earth dist.	-8841 Jan	12 j 10:14	18°♑41'31	30.86189 AU
morning rise	-8841 Jan	27 j 17:33	19°♑15'37	
retrograde	-8841 Apr	29 j 05:00	21°♑14'22	
opposition	-8841 Jul	17 j 21:59	19°♑48'59	-1°34'02
min. Earth dist.	-8841 Jul	17 j 03:23	19°♑50'17	28.85944 AU
direct	-8841 Oct	02 j 23:30	18°♑25'30	
evening set	-8841 Dec	29 j 01:05	20°♑18'40	
conjunction	-8840 Jan	14 j 02:47	20°♑54'27	-1°30'19
minimum elong	-8840 Jan	14 j 02:46	20°♑54'27	1°30'42
max. Earth dist.	-8840 Jan	14 j 23:49	20°♑56'25	30.85511 AU
morning rise	-8840 Jan	30 j 07:39	21°♑30'34	
retrograde	-8840 Apr	30 j 18:19	23°♑29'13	
opposition	-8840 Jul	19 j 09:06	22°♑03'49	-1°39'14
min. Earth dist.	-8840 Jul	18 j 14:12	22°♑05'09	28.85257 AU
direct	-8840 Oct	04 j 13:01	20°♑40'14	
evening set	-8840 Dec	30 j 14:39	22°♑33'28	
conjunction	-8839 Jan	15 j 16:31	23°♑09'16	-1°35'06
minimum elong	-8839 Jan	15 j 16:30	23°♑09'16	1°35'32
max. Earth dist.	-8839 Jan	16 j 12:14	23°♑11'07	30.84820 AU
morning rise	-8839 Jan	31 j 21:42	23°♑45'23	
retrograde	-8839 May	03 j 07:03	25°♑43'59	
opposition	-8839 Jul	21 j 20:18	24°♑18'32	-1°44'16
min. Earth dist.	-8839 Jul	21 j 02:52	24°♑19'46	28.84601 AU
direct	-8839 Oct	07 j 00:19	22°♑54'50	
evening set	-8838 Jan	02 j 04:16	24°♑48'09	
conjunction	-8838 Jan	18 j 06:36	25°♑23'58	-1°39'45
minimum elong	-8838 Jan	18 j 06:35	25°♑23'58	1°40'10
max. Earth dist.	-8838 Jan	19 j 02:41	25°♑25'51	30.84191 AU
morning rise	-8838 Feb	03 j 11:49	26°♑00'05	
retrograde	-8838 May	05 j 19:59	27°♑58'36	
opposition	-8838 Jul	24 j 07:09	26°♑33'08	-1°49'10
min. Earth dist.	-8838 Jul	23 j 13:31	26°♑34'23	28.84019 AU
direct	-8838 Oct	09 j 13:11	25°♑09'21	
evening set	-8837 Jan	04 j 18:10	27°♑02'46	
conjunction	-8837 Jan	20 j 20:35	27°♑38'35	-1°44'15
minimum elong	-8837 Jan	20 j 20:34	27°♑38'35	1°44'41
max. Earth dist.	-8837 Jan	21 j 15:02	27°♑40'19	30.83660 AU
morning rise	-8837 Feb	06 j 02:07	28°♑14'43	
	-8837 Apr	10 j 01:56	0°♐	
retrograde	-8837 May	08 j 10:17	0°♐13'09	
	-8837 Jun	05 j 21:55	30°℞♑	
opposition	-8837 Jul	26 j 18:12	28°♑47'40	-1°53'53
min. Earth dist.	-8837 Jul	26 j 01:26	28°♑48'52	28.83568 AU
direct	-8837 Oct	12 j 00:35	27°♑23'48	
evening set	-8836 Jan	07 j 07:47	29°♑17'19	

Attention, astronomical year style is used: The year -8836 in astronomical counting style is the year 8837 BCE in historical counting style.

conjunction	-8836 Jan 23 j 10:35	29°♏53'10	-1°48'35
minimum elong	-8836 Jan 23 j 10:34	29°♏53'10	1°49'01
max. Earth dist.	-8836 Jan 24 j 05:46	29°♏54'58	30.83262 AU
	-8836 Jan 26 j 11:38	0°♐	
morning rise	-8836 Feb 08 j 16:03	0°♐29'17	
retrograde	-8836 May 09 j 22:40	2°♐27'39	
opposition	-8836 Jul 28 j 05:08	1°♐02'13	-1°58'26
min. Earth dist.	-8836 Jul 27 j 12:42	1°♐03'23	28.83247 AU
	-8836 Sep 07 j 07:31	30°℞♏	
direct	-8836 Oct 13 j 13:13	29°♏38'17	
	-8836 Nov 18 j 04:28	0°♐	
evening set	-8835 Jan 08 j 21:42	1°♐31'55	
conjunction	-8835 Jan 25 j 00:37	2°♐07'47	-1°52'45
minimum elong	-8835 Jan 25 j 00:36	2°♐07'46	1°53'14
max. Earth dist.	-8835 Jan 25 j 18:17	2°♐09'26	30.83018 AU
morning rise	-8835 Feb 10 j 06:22	2°♐43'54	
retrograde	-8835 May 12 j 12:12	4°♐42'13	
opposition	-8835 Jul 30 j 15:58	3°♐16'49	-2°02'48
min. Earth dist.	-8835 Jul 29 j 23:47	3°♐17'58	28.83085 AU
direct	-8835 Oct 16 j 00:08	1°♐52'50	
evening set	-8834 Jan 11 j 11:41	3°♐46'36	
conjunction	-8834 Jan 27 j 14:55	4°♐22'29	-1°56'45
minimum elong	-8834 Jan 27 j 14:55	4°♐22'29	1°57'14
max. Earth dist.	-8834 Jan 28 j 08:46	4°♐24'09	30.82904 AU
morning rise	-8834 Feb 12 j 20:40	4°♐58'37	
retrograde	-8834 May 14 j 23:47	6°♐56'52	
min. Earth dist.	-8834 Aug 01 j 11:54	5°♐32'36	28.83029 AU
opposition	-8834 Aug 02 j 02:55	5°♐31'32	-2°06'59
direct	-8834 Oct 18 j 11:14	4°♐07'32	
evening set	-8833 Jan 14 j 01:51	6°♐01'27	
conjunction	-8833 Jan 30 j 05:15	6°♐37'20	-2°00'35
minimum elong	-8833 Jan 30 j 05:15	6°♐37'20	2°01'05
max. Earth dist.	-8833 Jan 30 j 21:49	6°♐38'53	30.82893 AU
morning rise	-8833 Feb 15 j 11:07	7°♐13'28	
retrograde	-8833 May 17 j 14:05	9°♐11'41	
opposition	-8833 Aug 04 j 13:39	7°♐46'26	-2°10'58
min. Earth dist.	-8833 Aug 03 j 22:34	7°♐47'30	28.83052 AU
direct	-8833 Oct 20 j 21:56	6°♐22'24	
evening set	-8832 Jan 16 j 16:10	8°♐16'28	
conjunction	-8832 Feb 01 j 19:43	8°♐52'22	-2°04'13
minimum elong	-8832 Feb 01 j 19:42	8°♐52'22	2°04'43
max. Earth dist.	-8832 Feb 02 j 11:35	8°♐53'51	30.82918 AU
morning rise	-8832 Feb 18 j 01:36	9°♐28'31	
retrograde	-8832 May 19 j 01:11	11°♐26'41	
min. Earth dist.	-8832 Aug 05 j 11:24	10°♐02'27	28.83091 AU
opposition	-8832 Aug 06 j 00:38	10°♐01'31	-2°14'46
direct	-8832 Oct 22 j 07:55	8°♐37'27	
evening set	-8831 Jan 18 j 06:25	10°♐31'41	
conjunction	-8831 Feb 03 j 10:15	11°♐07'35	-2°07'40
minimum elong	-8831 Feb 03 j 10:14	11°♐07'35	2°08'11
max. Earth dist.	-8831 Feb 04 j 01:20	11°♐09'00	30.82942 AU
morning rise	-8831 Feb 19 j 16:09	11°♐43'43	
retrograde	-8831 May 21 j 14:23	13°♐41'50	
opposition	-8831 Aug 08 j 11:28	12°♐16'44	-2°18'21
min. Earth dist.	-8831 Aug 07 j 22:20	12°♐17'40	28.83088 AU
direct	-8831 Oct 24 j 20:59	10°♐52'38	
evening set	-8830 Jan 20 j 21:05	12°♐47'01	
conjunction	-8830 Feb 06 j 00:57	13°♐22'56	-2°10'56
minimum elong	-8830 Feb 06 j 00:57	13°♐22'56	2°11'26
max. Earth dist.	-8830 Feb 06 j 14:12	13°♐24'10	30.82889 AU
morning rise	-8830 Feb 22 j 06:58	13°♐59'04	
retrograde	-8830 May 24 j 02:51	15°♐57'07	
opposition	-8830 Aug 10 j 22:23	14°♐32'04	-2°21'43
min. Earth dist.	-8830 Aug 10 j 11:12	14°♐32'51	28.83007 AU
direct	-8830 Oct 27 j 07:55	13°♐07'53	
evening set	-8829 Jan 23 j 11:38	15°♐02'24	
conjunction	-8829 Feb 08 j 15:49	15°♐38'20	-2°13'59
minimum elong	-8829 Feb 08 j 15:49	15°♐38'20	2°14'31
max. Earth dist.	-8829 Feb 09 j 04:39	15°♐39'32	30.82761 AU
morning rise	-8829 Feb 24 j 21:43	16°♐14'27	
retrograde	-8829 May 26 j 15:55	18°♐12'24	
opposition	-8829 Aug 13 j 09:13	16°♐47'24	-2°24'53
min. Earth dist.	-8829 Aug 12 j 22:21	16°♐48'10	28.82838 AU
direct	-8829 Oct 29 j 20:58	15°♐23'09	
evening set	-8828 Jan 26 j 02:10	17°♐17'46	
conjunction	-8828 Feb 11 j 06:19	17°♐53'42	-2°16'50
minimum elong	-8828 Feb 11 j 06:18	17°♐53'42	2°17'22
max. Earth dist.	-8828 Feb 11 j 16:58	17°♐54'42	30.82561 AU
morning rise	-8828 Feb 27 j 12:22	18°♐29'49	
retrograde	-8828 May 28 j 05:56	20°♐27'40	
opposition	-8828 Aug 14 j 20:04	19°♐02'40	-2°27'49
min. Earth dist.	-8828 Aug 14 j 10:32	19°♐03'21	28.82632 AU
direct	-8828 Oct 31 j 09:15	17°♐38'20	
evening set	-8827 Jan 27 j 16:39	19°♐33'03	
conjunction	-8827 Feb 12 j 21:07	20°♐08'59	-2°19'29
minimum elong	-8827 Feb 12 j 21:07	20°♐08'59	2°20'02
max. Earth dist.	-8827 Feb 13 j 07:55	20°♐10'00	30.82341 AU
morning rise	-8827 Mar 01 j 02:59	20°♐45'05	
retrograde	-8827 May 30 j 18:02	22°♐42'49	
opposition	-8827 Aug 17 j 06:40	21°♐17'50	-2°30'32
min. Earth dist.	-8827 Aug 16 j 22:02	21°♐18'27	28.82420 AU
direct	-8827 Nov 02 j 22:53	19°♐53'24	
evening set	-8826 Jan 30 j 07:19	21°♐48'14	
conjunction	-8826 Feb 15 j 11:47	22°♐24'10	-2°21'55
minimum elong	-8826 Feb 15 j 11:46	22°♐24'10	2°22'27
max. Earth dist.	-8826 Feb 15 j 20:33	22°♐24'59	30.82152 AU
morning rise	-8826 Mar 03 j 17:48	23°♐00'15	
retrograde	-8826 Jun 02 j 07:31	24°♐57'51	
opposition	-8826 Aug 19 j 17:18	23°♐32'53	-2°33'01
min. Earth dist.	-8826 Aug 19 j 09:11	23°♐33'28	28.82273 AU
direct	-8826 Nov 05 j 10:47	22°♐08'21	
evening set	-8825 Feb 01 j 21:49	24°♐03'17	
conjunction	-8825 Feb 18 j 02:29	24°♐39'14	-2°24'08
minimum elong	-8825 Feb 18 j 02:28	24°♐39'14	2°24'41
max. Earth dist.	-8825 Feb 18 j 11:20	24°♐40'03	30.82033 AU
morning rise	-8825 Mar 06 j 08:17	25°♐15'18	
retrograde	-8825 Jun 04 j 19:19	27°♐12'46	
opposition	-8825 Aug 22 j 03:54	25°♐47'50	-2°35'16
min. Earth dist.	-8825 Aug 21 j 21:02	25°♐48'20	28.82218 AU
direct	-8825 Nov 07 j 22:57	24°♐23'14	
evening set	-8824 Feb 04 j 12:21	26°♐18'15	
conjunction	-8824 Feb 20 j 17:03	26°♐54'12	-2°26'07
minimum elong	-8824 Feb 20 j 17:02	26°♐54'12	2°26'40
max. Earth dist.	-8824 Feb 21 j 00:27	26°♐54'53	30.82050 AU
morning rise	-8824 Mar 07 j 22:54	27°♐30'15	
retrograde	-8824 Jun 06 j 09:05	29°♐27'36	
opposition	-8824 Aug 23 j 14:23	28°♐02'43	-2°37'16
min. Earth dist.	-8824 Aug 23 j 07:15	28°♐03'13	28.82316 AU
direct	-8824 Nov 09 j 10:28	26°♐38'01	
evening set	-8823 Feb 06 j 02:48	28°♐33'10	
conjunction	-8823 Feb 22 j 07:38	29°♐09'07	-2°27'53

Attention, astronomical year style is used: The year -8823 in astronomical counting style is the year 8824 BCE in historical counting style.

minimum elong	-8823 Feb 22 j 07:37	29°♐09'06	2°28'27
max. Earth dist.	-8823 Feb 22 j 14:39	29°♐09'46	30.82212 AU
morning rise	-8823 Mar 10 j 13:23	29°♐45'10	
	-8823 Mar 17 j 11:04	0°♑	
retrograde	-8823 Jun 08 j 19:12	1°♑42'23	
opposition	-8823 Aug 26 j 01:01	0°♑17'34	-2°39'03
min. Earth dist.	-8823 Aug 25 j 19:31	0°♑17'57	28.82561 AU
	-8823 Sep 05 j 08:45	30°℞♐	
direct	-8823 Nov 11 j 21:07	28°♐52'49	
	-8822 Jan 16 j 05:13	0°♑	
evening set	-8822 Feb 08 j 17:26	0°♑48'05	
conjunction	-8822 Feb 24 j 22:24	1°♑24'01	-2°29'26
minimum elong	-8822 Feb 24 j 22:23	1°♑24'01	2°29'59
max. Earth dist.	-8822 Feb 25 j 04:41	1°♑24'37	30.82538 AU
morning rise	-8822 Mar 13 j 04:04	2°♑00'04	
retrograde	-8822 Jun 11 j 07:35	3°♑57'10	
opposition	-8822 Aug 28 j 11:24	2°♑32'26	-2°40'34
min. Earth dist.	-8822 Aug 28 j 05:40	2°♑32'51	28.82952 AU
direct	-8822 Nov 14 j 09:36	1°♑07'39	
evening set	-8821 Feb 11 j 08:11	3°♑03'03	
conjunction	-8821 Feb 27 j 13:08	3°♑39'00	-2°30'45
minimum elong	-8821 Feb 27 j 13:07	3°♑39'00	2°31'19
max. Earth dist.	-8821 Feb 27 j 18:10	3°♑39'28	30.82985 AU
morning rise	-8821 Mar 15 j 18:46	4°♑15'01	
retrograde	-8821 Jun 13 j 19:26	6°♑12'01	
opposition	-8821 Aug 30 j 22:03	4°♑47'23	-2°41'51
min. Earth dist.	-8821 Aug 30 j 17:58	4°♑47'41	28.83461 AU
direct	-8821 Nov 16 j 19:26	3°♑22'34	
evening set	-8820 Feb 13 j 22:41	5°♑18'06	
conjunction	-8820 Mar 01 j 03:50	5°♑54'03	-2°31'50
minimum elong	-8820 Mar 01 j 03:49	5°♑54'03	2°32'23
max. Earth dist.	-8820 Mar 01 j 08:39	5°♑54'30	30.83532 AU
morning rise	-8820 Mar 17 j 09:17	6°♑30'04	
retrograde	-8820 Jun 15 j 07:27	8°♑26'58	
opposition	-8820 Sep 01 j 08:34	7°♑02'26	-2°42'53
min. Earth dist.	-8820 Sep 01 j 04:44	7°♑02'42	28.84023 AU
direct	-8820 Nov 18 j 08:26	5°♑37'36	
evening set	-8819 Feb 15 j 13:37	7°♑33'16	
conjunction	-8819 Mar 03 j 18:39	8°♑09'13	-2°32'41
minimum elong	-8819 Mar 03 j 18:39	8°♑09'13	2°33'15
max. Earth dist.	-8819 Mar 03 j 21:19	8°♑09'27	30.84098 AU
morning rise	-8819 Mar 20 j 00:09	8°♑45'13	
retrograde	-8819 Jun 17 j 20:30	10°♑42'01	
opposition	-8819 Sep 03 j 19:06	9°♑17'34	-2°43'39
min. Earth dist.	-8819 Sep 03 j 16:46	9°♑17'44	28.84589 AU
direct	-8819 Nov 20 j 20:16	7°♑52'42	
evening set	-8818 Feb 18 j 04:30	9°♑48'30	
conjunction	-8818 Mar 06 j 09:47	10°♑24'27	-2°33'18
minimum elong	-8818 Mar 06 j 09:47	10°♑24'27	2°33'51
max. Earth dist.	-8818 Mar 06 j 12:12	10°♑24'41	30.84630 AU
morning rise	-8818 Mar 22 j 15:00	11°♑00'26	
retrograde	-8818 Jun 20 j 08:32	12°♑57'07	
opposition	-8818 Sep 06 j 05:47	11°♑32'45	-2°44'11
min. Earth dist.	-8818 Sep 06 j 04:37	11°♑32'50	28.85079 AU
direct	-8818 Nov 23 j 09:53	10°♑07'51	
evening set	-8817 Feb 20 j 19:29	12°♑03'45	
conjunction	-8817 Mar 09 j 00:37	12°♑39'42	-2°33'41
minimum elong	-8817 Mar 09 j 00:37	12°♑39'42	2°34'14
max. Earth dist.	-8817 Mar 09 j 00:35	12°♑39'42	30.85079 AU
morning rise	-8817 Mar 25 j 05:52	13°♑15'40	
retrograde	-8817 Jun 22 j 22:16	15°♑12'13	

opposition	-8817 Sep 08 j 16:24	13°♑47'56	-2°44'28
min. Earth dist.	-8817 Sep 08 j 16:04	13°♑47'57	28.85492 AU
direct	-8817 Nov 25 j 22:06	12°♑22'57	
evening set	-8816 Feb 23 j 10:17	14°♑18'58	
conjunction	-8816 Mar 10 j 15:38	14°♑54'55	-2°33'49
minimum elong	-8816 Mar 10 j 15:38	14°♑54'55	2°34'23
max. Earth dist.	-8816 Mar 10 j 15:15	14°♑54'53	30.85444 AU
morning rise	-8816 Mar 26 j 20:36	15°♑30'52	
retrograde	-8816 Jun 24 j 10:18	17°♑27'15	
opposition	-8816 Sep 10 j 03:00	16°♑03'01	-2°44'30
min. Earth dist.	-8816 Sep 10 j 04:23	16°♑02'55	28.85820 AU
direct	-8816 Nov 27 j 11:16	14°♑37'59	
evening set	-8815 Feb 25 j 01:06	16°♑34'04	
conjunction	-8815 Mar 13 j 06:25	17°♑10'01	-2°33'44
minimum elong	-8815 Mar 13 j 06:26	17°♑10'01	2°34'18
max. Earth dist.	-8815 Mar 13 j 03:56	17°♑09'47	30.85756 AU
morning rise	-8815 Mar 29 j 11:26	17°♑45'57	
retrograde	-8815 Jun 26 j 23:40	19°♑42'11	
opposition	-8815 Sep 12 j 13:29	18°♑18'00	-2°44'17
min. Earth dist.	-8815 Sep 12 j 15:04	18°♑17'53	28.86109 AU
direct	-8815 Nov 30 j 00:08	16°♑52'53	
evening set	-8814 Feb 27 j 15:55	18°♑49'02	
conjunction	-8814 Mar 15 j 21:19	19°♑24'59	-2°33'26
minimum elong	-8814 Mar 15 j 21:19	19°♑24'59	2°33'59
max. Earth dist.	-8814 Mar 15 j 18:08	19°♑24'41	30.86030 AU
morning rise	-8814 Apr 01 j 02:06	20°♑00'54	
retrograde	-8814 Jun 29 j 10:01	21°♑56'58	
opposition	-8814 Sep 14 j 24:00	20°♑32'50	-2°43'50
min. Earth dist.	-8814 Sep 15 j 03:33	20°♑32'34	28.86392 AU
direct	-8814 Dec 02 j 11:42	19°♑07'38	
evening set	-8813 Mar 02 j 06:37	21°♑03'52	
conjunction	-8813 Mar 18 j 12:02	21°♑39'49	-2°32'53
minimum elong	-8813 Mar 18 j 12:03	21°♑39'49	2°33'26
max. Earth dist.	-8813 Mar 18 j 07:47	21°♑39'25	30.86342 AU
morning rise	-8813 Apr 03 j 16:44	22°♑15'42	
retrograde	-8813 Jul 01 j 22:19	24°♑11'36	
opposition	-8813 Sep 17 j 10:26	22°♑47'31	-2°43'07
min. Earth dist.	-8813 Sep 17 j 13:50	22°♑47'16	28.86729 AU
direct	-8813 Dec 05 j 00:29	21°♑22'15	
evening set	-8812 Mar 03 j 21:06	23°♑18'33	
conjunction	-8812 Mar 20 j 02:29	23°♑54'30	-2°32'06
minimum elong	-8812 Mar 20 j 02:29	23°♑54'30	2°32'38
max. Earth dist.	-8812 Mar 19 j 21:10	23°♑54'00	30.86716 AU
morning rise	-8812 Apr 05 j 07:03	24°♑30'23	
retrograde	-8812 Jul 03 j 09:14	26°♑26'08	
opposition	-8812 Sep 18 j 20:57	25°♑02'06	-2°42'10
min. Earth dist.	-8812 Sep 19 j 01:57	25°♑01'44	28.87163 AU
direct	-8812 Dec 06 j 10:25	23°♑36'46	
evening set	-8811 Mar 06 j 11:35	25°♑33'09	
conjunction	-8811 Mar 22 j 17:05	26°♑09'05	-2°31'06
minimum elong	-8811 Mar 22 j 17:06	26°♑09'05	2°31'37
max. Earth dist.	-8811 Mar 22 j 11:32	26°♑08'34	30.87213 AU
morning rise	-8811 Apr 07 j 21:27	26°♑44'58	
retrograde	-8811 Jul 05 j 19:58	28°♑40'33	
opposition	-8811 Sep 21 j 07:15	27°♑16'36	-2°40'58
min. Earth dist.	-8811 Sep 21 j 12:16	27°♑16'15	28.87712 AU
direct	-8811 Dec 08 j 23:43	25°♑51'14	
evening set	-8810 Mar 09 j 02:14	27°♑47'42	
conjunction	-8810 Mar 25 j 07:36	28°♑23'38	-2°29'51
minimum elong	-8810 Mar 25 j 07:36	28°♑23'38	2°30'23

Attention, astronomical year style is used: The year -8810 in astronomical counting style is the year 8811 BCE in historical counting style.

max. Earth dist.	-8810 Mar 25 j 00:17	28°♓22'57	30.87831 AU	
morning rise	-8810 Apr 10 j 11:55	28°♓59'29		
	-8810 May 10 j 20:41	0°♒		
retrograde	-8810 Jul 08 j 07:48	0°♒54'57		
	-8810 Sep 06 j 10:55	30°℞♓		
opposition	-8810 Sep 23 j 17:47	29°♓31'05	-2°39'31	
min. Earth dist.	-8810 Sep 23 j 23:46	29°♓30'39	28.88403 AU	
direct	-8810 Dec 11 j 11:12	28°♓05'41		
	-8809 Mar 10 j 15:30	0°♒		
evening set	-8809 Mar 11 j 16:31	0°♒02'16		
conjunction	-8809 Mar 27 j 22:02	0°♒38'12	-2°28'23	
minimum elong	-8809 Mar 27 j 22:03	0°♒38'12	2°28'54	
max. Earth dist.	-8809 Mar 27 j 15:03	0°♒37'33	30.88584 AU	
morning rise	-8809 Apr 13 j 02:01	1°♒14'02		
retrograde	-8809 Jul 10 j 18:55	3°♒09'22		
opposition	-8809 Sep 26 j 04:15	1°♒45'36	-2°37'49	
min. Earth dist.	-8809 Sep 26 j 10:58	1°♒45'08	28.89198 AU	
direct	-8809 Dec 14 j 00:09	0°♒20'13		
evening set	-8808 Mar 13 j 07:03	2°♒16'53		
conjunction	-8808 Mar 29 j 12:22	2°♒52'49	-2°26'41	
minimum elong	-8808 Mar 29 j 12:23	2°♒52'49	2°27'13	
max. Earth dist.	-8808 Mar 29 j 03:26	2°♒51'59	30.89437 AU	
morning rise	-8808 Apr 14 j 16:22	3°♒28'38		
retrograde	-8808 Jul 12 j 08:14	5°♒23'51		
opposition	-8808 Sep 27 j 14:36	4°♒00'12	-2°35'53	
min. Earth dist.	-8808 Sep 27 j 21:52	3°♒59'41	28.90083 AU	
direct	-8808 Dec 15 j 11:54	2°♒34'48		
evening set	-8807 Mar 15 j 21:26	4°♒31'35		
conjunction	-8807 Apr 01 j 02:56	5°♒07'31	-2°24'46	
minimum elong	-8807 Apr 01 j 02:57	5°♒07'31	2°25'16	
max. Earth dist.	-8807 Mar 31 j 18:03	5°♒06'41	30.90332 AU	
morning rise	-8807 Apr 17 j 06:36	5°♒43'19		
retrograde	-8807 Jul 14 j 20:18	7°♒38'25		
opposition	-8807 Sep 30 j 01:12	6°♒14'52	-2°33'43	
min. Earth dist.	-8807 Sep 30 j 10:05	6°♒14'14	28.90965 AU	
direct	-8807 Dec 18 j 01:44	4°♒49'29		
evening set	-8806 Mar 18 j 12:04	6°♒46'21		
conjunction	-8806 Apr 03 j 17:22	7°♒22'17	-2°22'38	
minimum elong	-8806 Apr 03 j 17:22	7°♒22'17	2°23'07	
max. Earth dist.	-8806 Apr 03 j 06:21	7°♒21'15	30.91205 AU	
morning rise	-8806 Apr 19 j 20:59	7°♒58'04		
retrograde	-8806 Jul 17 j 09:19	9°♒53'02		
opposition	-8806 Oct 02 j 11:40	8°♒29'35	-2°31'18	
min. Earth dist.	-8806 Oct 02 j 20:45	8°♒28'56	28.91801 AU	
direct	-8806 Dec 20 j 15:07	7°♒04'11		
evening set	-8805 Mar 21 j 02:34	9°♒01'08		
conjunction	-8805 Apr 06 j 07:54	9°♒37'03	-2°20'16	
minimum elong	-8805 Apr 06 j 07:54	9°♒37'03	2°20'45	
max. Earth dist.	-8805 Apr 05 j 20:14	9°♒35'58	30.91994 AU	
morning rise	-8805 Apr 22 j 11:11	10°♒12'49		
retrograde	-8805 Jul 19 j 20:25	12°♒07'39		
opposition	-8805 Oct 04 j 22:26	10°♒44'17	-2°28'40	
min. Earth dist.	-8805 Oct 05 j 09:32	10°♒43'30	28.92544 AU	
direct	-8805 Dec 23 j 03:05	9°♒18'51		
evening set	-8804 Mar 22 j 16:52	11°♒15'51		
conjunction	-8804 Apr 07 j 22:07	11°♒51'46	-2°17'42	
minimum elong	-8804 Apr 07 j 22:08	11°♒51'46	2°18'10	
max. Earth dist.	-8804 Apr 07 j 08:59	11°♒50'32	30.92697 AU	
morning rise	-8804 Apr 24 j 01:19	12°♒27'31		
retrograde	-8804 Jul 21 j 09:15	14°♒22'10		
opposition	-8804 Oct 06 j 08:59	12°♒58'52	-2°25'49	
min. Earth dist.	-8804 Oct 06 j 20:14	12°♒58'04	28.93181 AU	
direct	-8804 Dec 24 j 16:35	11°♒33'24		
evening set	-8803 Mar 25 j 07:18	13°♒30'25		
conjunction	-8803 Apr 10 j 12:29	14°♒06'20	-2°14'56	
minimum elong	-8803 Apr 10 j 12:30	14°♒06'20	2°15'23	
max. Earth dist.	-8803 Apr 09 j 22:03	14°♒04'59	30.93288 AU	
morning rise	-8803 Apr 26 j 15:27	14°♒42'04		
	-8803 May 05 j 00:43	15°♒		
retrograde	-8803 Jul 23 j 19:41	16°♒36'33		
opposition	-8803 Oct 08 j 19:32	15°♒13'18	-2°22'45	
min. Earth dist.	-8803 Oct 09 j 08:42	15°♒12'21	28.93733 AU	
	-8803 Oct 16 j 15:50	15°℞♒		
direct	-8803 Dec 27 j 03:20	13°♒47'45		
	-8802 Mar 06 j 02:26	15°♒		
evening set	-8802 Mar 27 j 21:34	15°♒44'47		
max. Earth dist.	-8802 Apr 12 j 11:42	16°♒19'17	30.93820 AU	
conjunction	-8802 Apr 13 j 02:45	16°♒20'42	-2°11'58	
minimum elong	-8802 Apr 13 j 02:46	16°♒20'42	2°12'25	
morning rise	-8802 Apr 29 j 05:29	16°♒56'24		
retrograde	-8802 Jul 26 j 05:34	18°♒50'42		
opposition	-8802 Oct 11 j 06:05	17°♒27'29	-2°19'28	
min. Earth dist.	-8802 Oct 11 j 19:30	17°♒26'32	28.94231 AU	
direct	-8802 Dec 29 j 17:24	16°♒01'53		
evening set	-8801 Mar 30 j 11:39	17°♒58'55		
conjunction	-8801 Apr 15 j 16:37	18°♒34'49	-2°08'48	
minimum elong	-8801 Apr 15 j 16:38	18°♒34'49	2°09'14	
max. Earth dist.	-8801 Apr 14 j 23:53	18°♒33'15	30.94318 AU	
morning rise	-8801 May 01 j 19:11	19°♒10'30		
retrograde	-8801 Jul 28 j 16:10	21°♒04'38		
opposition	-8801 Oct 13 j 16:38	19°♒41'26	-2°15'59	
min. Earth dist.	-8801 Oct 14 j 07:05	19°♒40'24	28.94740 AU	
direct	-8800 Jan 01 j 04:27	18°♒15'45		
evening set	-8800 Apr 01 j 01:31	20°♒12'48		
conjunction	-8800 Apr 17 j 06:32	20°♒48'41	-2°05'27	
minimum elong	-8800 Apr 17 j 06:33	20°♒48'41	2°05'52	
max. Earth dist.	-8800 Apr 16 j 14:05	20°♒47'09	30.94853 AU	
morning rise	-8800 May 03 j 08:46	21°♒24'20		
retrograde	-8800 Jul 30 j 02:04	23°♒18'18		
opposition	-8800 Oct 15 j 03:03	21°♒55'08	-2°12'18	
min. Earth dist.	-8800 Oct 15 j 18:13	21°♒54'04	28.95295 AU	
direct	-8799 Jan 02 j 17:13	20°♒29'23		
evening set	-8799 Apr 03 j 15:27	22°♒26'27		
conjunction	-8799 Apr 19 j 20:13	23°♒02'19	-2°01'55	
minimum elong	-8799 Apr 19 j 20:14	23°♒02'19	2°02'18	
max. Earth dist.	-8799 Apr 19 j 02:02	23°♒00'37	30.95461 AU	
morning rise	-8799 May 05 j 22:22	23°♒37'58		
retrograde	-8799 Aug 01 j 13:48	25°♒31'46		
opposition	-8799 Oct 17 j 13:32	24°♒08'38	-2°08'26	
min. Earth dist.	-8799 Oct 18 j 04:51	24°♒07'33	28.95954 AU	
direct	-8798 Jan 05 j 05:25	22°♒42'51		
evening set	-8798 Apr 06 j 05:08	24°♒39'56		
conjunction	-8798 Apr 22 j 09:54	25°♒15'47	-1°58'12	
minimum elong	-8798 Apr 22 j 09:55	25°♒15'47	1°58'35	
max. Earth dist.	-8798 Apr 21 j 16:20	25°♒14'09	30.96179 AU	
morning rise	-8798 May 08 j 11:36	25°♒51'24		
retrograde	-8798 Aug 04 j 00:13	27°♒45'04		
opposition	-8798 Oct 20 j 00:08	26°♒21'59	-2°04'22	
min. Earth dist.	-8798 Oct 20 j 16:32	26°♒20'50	28.96730 AU	
direct	-8797 Jan 07 j 19:05	24°♒56'11		
evening set	-8797 Apr 08 j 18:52	26°♒53'18		

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

conjunction	-8797 Apr 24 j 23:20	27°♒29'08	-1°54'19
minimum elong	-8797 Apr 24 j 23:21	27°♒29'09	1°54'40
max. Earth dist.	-8797 Apr 24 j 04:18	27°♒27'22	30.97040 AU
morning rise	-8797 May 11 j 00:56	28°♒04'44	
retrograde	-8797 Aug 06 j 12:34	29°♒58'16	
opposition	-8797 Oct 22 j 10:36	28°♒35'16	-2°00'07
min. Earth dist.	-8797 Oct 23 j 02:28	28°♒34'09	28.97650 AU
direct	-8796 Jan 10 j 08:02	27°♒09'29	
evening set	-8796 Apr 10 j 08:16	29°♒06'39	
conjunction	-8796 Apr 26 j 12:43	29°♒42'28	-1°50'15
minimum elong	-8796 Apr 26 j 12:44	29°♒42'28	1°50'36
max. Earth dist.	-8796 Apr 25 j 17:55	29°♒40'43	30.98021 AU
	-8796 May 04 j 09:14	0°♓	
morning rise	-8796 May 12 j 13:56	0°♓18'03	
retrograde	-8796 Aug 07 j 23:23	2°♓11'29	
opposition	-8796 Oct 23 j 21:15	0°♓48'35	-1°55'41
min. Earth dist.	-8796 Oct 24 j 14:38	0°♓47'21	28.98672 AU
	-8796 Nov 23 j 09:51	30°℞♒	
direct	-8795 Jan 11 j 20:04	29°♒22'49	
	-8795 Mar 01 j 07:53	0°♓	
evening set	-8795 Apr 12 j 21:54	1°♓20'02	
max. Earth dist.	-8795 Apr 28 j 06:17	1°♓54'00	30.99092 AU
conjunction	-8795 Apr 29 j 02:06	1°♓55'51	-1°46'01
minimum elong	-8795 Apr 29 j 02:07	1°♓55'51	1°46'20
morning rise	-8795 May 15 j 03:08	2°♓31'24	
retrograde	-8795 Aug 10 j 12:05	4°♓24'43	
opposition	-8795 Oct 26 j 07:42	3°♓01'56	-1°51'04
min. Earth dist.	-8795 Oct 27 j 00:51	3°♓00'44	28.99744 AU
direct	-8794 Jan 14 j 09:32	1°♓36'13	
evening set	-8794 Apr 15 j 11:30	3°♓33'29	
conjunction	-8794 May 01 j 15:30	4°♓09'17	-1°41'38
minimum elong	-8794 May 01 j 15:30	4°♓09'18	1°41'57
max. Earth dist.	-8794 Apr 30 j 19:02	4°♓07'23	31.00168 AU
morning rise	-8794 May 17 j 16:09	4°♓44'49	
retrograde	-8794 Aug 12 j 22:43	6°♓38'04	
opposition	-8794 Oct 28 j 18:30	5°♓15'22	-1°46'18
min. Earth dist.	-8794 Oct 29 j 13:13	5°♓14'03	29.00811 AU
direct	-8793 Jan 16 j 20:21	3°♓49'41	
evening set	-8793 Apr 18 j 00:51	5°♓46'59	
max. Earth dist.	-8793 May 03 j 07:50	6°♓20'51	31.01214 AU
conjunction	-8793 May 04 j 04:39	6°♓22'47	-1°37'06
minimum elong	-8793 May 04 j 04:40	6°♓22'47	1°37'22
morning rise	-8793 May 20 j 04:59	6°♓58'18	
retrograde	-8793 Aug 15 j 08:44	8°♓51'26	
opposition	-8793 Oct 31 j 05:17	7°♓28'51	-1°41'22
min. Earth dist.	-8793 Nov 01 j 00:07	7°♓27'31	29.01803 AU
direct	-8792 Jan 19 j 10:01	6°♓03'11	
evening set	-8792 Apr 19 j 14:22	8°♓00'30	
conjunction	-8792 May 05 j 17:50	8°♓36'17	-1°32'25
minimum elong	-8792 May 05 j 17:50	8°♓36'17	1°32'41
max. Earth dist.	-8792 May 04 j 19:24	8°♓34'12	31.02165 AU
morning rise	-8792 May 21 j 17:53	9°♓11'46	
retrograde	-8792 Aug 16 j 19:24	11°♓04'48	
opposition	-8792 Nov 01 j 15:58	9°♓42'17	-1°36'17
min. Earth dist.	-8792 Nov 02 j 11:53	9°♓40'53	29.02708 AU
direct	-8791 Jan 20 j 20:23	8°♓16'37	
evening set	-8791 Apr 22 j 03:42	10°♓13'57	
max. Earth dist.	-8791 May 07 j 08:41	10°♓47'38	31.03020 AU
conjunction	-8791 May 08 j 07:04	10°♓49'43	-1°27'36
minimum elong	-8791 May 08 j 07:05	10°♓49'43	1°27'51
morning rise	-8791 May 24 j 06:40	11°♓25'11	
retrograde	-8791 Aug 19 j 05:03	13°♓18'06	
opposition	-8791 Nov 04 j 02:51	11°♓55'38	-1°31'04
min. Earth dist.	-8791 Nov 04 j 23:37	11°♓54'11	29.03496 AU
direct	-8790 Jan 23 j 08:52	10°♓29'58	
evening set	-8790 Apr 24 j 17:03	12°♓27'17	
conjunction	-8790 May 10 j 19:57	13°♓03'01	-1°22'40
minimum elong	-8790 May 10 j 19:58	13°♓03'01	1°22'54
max. Earth dist.	-8790 May 09 j 19:46	13°♓00'46	31.03775 AU
morning rise	-8790 May 26 j 19:20	13°♓38'28	
retrograde	-8790 Aug 21 j 16:00	15°♓31'16	
opposition	-8790 Nov 06 j 13:38	14°♓08'50	-1°25'44
min. Earth dist.	-8790 Nov 07 j 10:39	14°♓07'21	29.04215 AU
direct	-8789 Jan 25 j 21:05	12°♓43'08	
evening set	-8789 Apr 27 j 06:04	14°♓40'26	
max. Earth dist.	-8789 May 12 j 09:15	15°♓13'57	31.04471 AU
conjunction	-8789 May 13 j 08:51	15°♓16'09	-1°17'36
minimum elong	-8789 May 13 j 08:52	15°♓16'09	1°17'49
morning rise	-8789 May 29 j 07:42	15°♓51'33	
retrograde	-8789 Aug 24 j 01:36	17°♓44'15	
opposition	-8789 Nov 09 j 00:29	16°♓21'49	-1°20'16
min. Earth dist.	-8789 Nov 09 j 22:43	16°♓20'16	29.04889 AU
direct	-8788 Jan 28 j 10:28	14°♓56'06	
evening set	-8788 Apr 28 j 19:00	16°♓53'22	
conjunction	-8788 May 14 j 21:20	17°♓29'03	-1°12'27
minimum elong	-8788 May 14 j 21:21	17°♓29'03	1°12'38
max. Earth dist.	-8788 May 13 j 20:20	17°♓26'43	31.05157 AU
morning rise	-8788 May 30 j 20:01	18°♓04'26	
retrograde	-8788 Aug 25 j 13:06	19°♓57'00	
opposition	-8788 Nov 10 j 11:11	18°♓34'35	-1°14'42
min. Earth dist.	-8788 Nov 11 j 08:52	18°♓33'04	29.05577 AU
direct	-8787 Jan 29 j 23:07	17°♓08'50	
evening set	-8787 May 01 j 07:47	19°♓06'04	
max. Earth dist.	-8787 May 16 j 09:20	19°♓39'27	31.05864 AU
conjunction	-8787 May 17 j 09:54	19°♓41'44	-1°07'11
minimum elong	-8787 May 17 j 09:55	19°♓41'44	1°07'20
morning rise	-8787 Jun 02 j 08:00	20°♓17'05	
retrograde	-8787 Aug 27 j 23:22	22°♓09'32	
opposition	-8787 Nov 12 j 22:02	20°♓47'08	-1°09'02
min. Earth dist.	-8787 Nov 13 j 20:59	20°♓45'32	29.06318 AU
direct	-8786 Feb 01 j 12:08	19°♓21'23	
evening set	-8786 May 03 j 20:32	21°♓18'35	
conjunction	-8786 May 19 j 22:12	21°♓54'13	-1°01'50
minimum elong	-8786 May 19 j 22:12	21°♓54'13	1°01'59
max. Earth dist.	-8786 May 18 j 21:04	21°♓51'52	31.06665 AU
morning rise	-8786 Jun 04 j 19:59	22°♓29'31	
retrograde	-8786 Aug 30 j 11:29	24°♓21'52	
opposition	-8786 Nov 15 j 08:53	22°♓59'30	-1°03'16
min. Earth dist.	-8786 Nov 16 j 06:57	22°♓57'57	29.07164 AU
direct	-8785 Feb 04 j 02:36	21°♓33'44	
evening set	-8785 May 06 j 08:59	23°♓30'55	
max. Earth dist.	-8785 May 21 j 09:16	24°♓04'12	31.07575 AU
conjunction	-8785 May 22 j 10:17	24°♓06'31	-0°56'24
minimum elong	-8785 May 22 j 10:17	24°♓06'31	0°56'31
morning rise	-8785 Jun 07 j 07:34	24°♓41'47	
retrograde	-8785 Sep 01 j 21:27	26°♓34'04	
opposition	-8785 Nov 17 j 19:50	25°♓11'45	-0°57'24
min. Earth dist.	-8785 Nov 18 j 18:45	25°♓10'09	29.08144 AU
direct	-8784 Feb 06 j 14:17	23°♓46'01	
evening set	-8784 May 07 j 21:27	25°♓43'10	
conjunction	-8784 May 23 j 22:24	26°♓18'45	-0°50'52

Attention, astronomical year style is used: The year -8784 in astronomical counting style is the year 8785 BCE in historical counting style.

minimum elong	-8784 May 23 j 22:24	26°♓18'45	0°51'00
max. Earth dist.	-8784 May 22 j 21:42	26°♓16'27	31.08626 AU
morning rise	-8784 Jun 08 j 19:16	26°♓53'59	
retrograde	-8784 Sep 03 j 07:12	28°♓46'10	
opposition	-8784 Nov 19 j 06:34	27°♓23'56	-0°51'27
min. Earth dist.	-8784 Nov 20 j 05:02	27°♓22'22	29.09233 AU
direct	-8783 Feb 08 j 03:39	25°♓58'14	
evening set	-8783 May 10 j 10:00	27°♓55'24	
max. Earth dist.	-8783 May 25 j 08:56	28°♓28'34	31.09767 AU
conjunction	-8783 May 26 j 10:26	28°♓30'57	-0°45'16
minimum elong	-8783 May 26 j 10:27	28°♓30'57	0°45'21
morning rise	-8783 Jun 11 j 06:54	29°♓06'09	
	-8783 Jul 07 j 22:45	0°♈	
retrograde	-8783 Sep 05 j 18:09	0°♈58'17	
	-8783 Nov 07 j 05:19	30°℞♓	
opposition	-8783 Nov 21 j 17:34	29°♓36'07	-0°45'26
min. Earth dist.	-8783 Nov 22 j 16:26	29°♓34'32	29.10408 AU
direct	-8782 Feb 10 j 14:20	28°♓10'29	
	-8782 May 09 j 09:28	0°♈	
evening set	-8782 May 12 j 22:17	0°♈07'39	
conjunction	-8782 May 28 j 22:23	0°♈43'10	-0°39'36
minimum elong	-8782 May 28 j 22:24	0°♈43'10	0°39'41
max. Earth dist.	-8782 May 27 j 21:40	0°♈40'52	31.10957 AU
morning rise	-8782 Jun 13 j 18:16	1°♈18'20	
retrograde	-8782 Sep 08 j 03:19	3°♈10'26	
opposition	-8782 Nov 24 j 04:43	1°♈48'21	-0°39'20
min. Earth dist.	-8782 Nov 25 j 04:01	1°♈46'44	29.11584 AU
direct	-8781 Feb 13 j 02:52	0°♈22'47	
evening set	-8781 May 15 j 10:44	2°♈19'56	
max. Earth dist.	-8781 May 30 j 08:10	2°♈53'00	31.12124 AU
conjunction	-8781 May 31 j 10:13	2°♈55'25	-0°33'53
minimum elong	-8781 May 31 j 10:13	2°♈55'25	0°33'55
morning rise	-8781 Jun 16 j 05:44	3°♈30'34	
retrograde	-8781 Sep 10 j 14:02	5°♈22'38	
opposition	-8781 Nov 26 j 15:47	4°♈00'36	-0°33'11
min. Earth dist.	-8781 Nov 27 j 15:00	3°♈59'00	29.12726 AU
direct	-8780 Feb 15 j 14:01	2°♈35'06	
evening set	-8780 May 16 j 22:56	4°♈32'14	
conjunction	-8780 Jun 01 j 22:07	5°♈07'42	-0°28'07
minimum elong	-8780 Jun 01 j 22:08	5°♈07'42	0°28'08
max. Earth dist.	-8780 May 31 j 20:50	5°♈05'20	31.13214 AU
morning rise	-8780 Jun 17 j 17:00	5°♈42'48	
retrograde	-8780 Sep 11 j 23:19	7°♈34'50	
opposition	-8780 Nov 28 j 03:06	6°♈12'52	-0°27'00
min. Earth dist.	-8780 Nov 29 j 03:29	6°♈11'10	29.13753 AU
direct	-8779 Feb 17 j 02:12	4°♈47'24	
evening set	-8779 May 19 j 11:19	6°♈44'31	
max. Earth dist.	-8779 Jun 03 j 07:07	7°♈17'26	31.14184 AU
conjunction	-8779 Jun 04 j 09:49	7°♈19'56	-0°22'18
minimum elong	-8779 Jun 04 j 09:49	7°♈19'56	0°22'17
morning rise	-8779 Jun 20 j 04:19	7°♈55'00	
retrograde	-8779 Sep 14 j 10:51	9°♈47'00	
opposition	-8779 Nov 30 j 14:18	8°♈25'04	-0°20'46
min. Earth dist.	-8779 Dec 01 j 14:06	8°♈23'25	29.14657 AU
direct	-8778 Feb 19 j 14:12	6°♈59'37	
evening set	-8778 May 21 j 23:28	8°♈56'43	
conjunction	-8778 Jun 06 j 21:35	9°♈32'06	-0°16'28
minimum elong	-8778 Jun 06 j 21:35	9°♈32'06	0°16'27
max. Earth dist.	-8778 Jun 05 j 19:15	9°♈29'38	31.15022 AU
morning rise	-8778 Jun 22 j 15:24	10°♈07'08	
retrograde	-8778 Sep 16 j 21:07	11°♈59'05	
opposition	-8778 Dec 03 j 01:48	10°♈37'10	-0°14'31
min. Earth dist.	-8778 Dec 04 j 02:55	10°♈35'26	29.15438 AU
direct	-8777 Feb 22 j 03:09	9°♈11'45	
evening set	-8777 May 24 j 11:25	11°♈08'48	
max. Earth dist.	-8777 Jun 08 j 05:57	11°♈41'37	31.15756 AU
conjunction	-8777 Jun 09 j 08:55	11°♈44'08	-0°10'37
minimum elong	-8777 Jun 09 j 08:55	11°♈44'08	0°10'34
behind sun begin	-8777 Jun 09 j 03:52	11°♈43'41	
behind sun end	-8777 Jun 09 j 13:57	11°♈44'35	
morning rise	-8777 Jun 25 j 02:20	12°♈19'07	
retrograde	-8777 Sep 19 j 08:52	14°♈11'02	
opposition	-8777 Dec 05 j 13:03	12°♈49'07	-0°08'15
min. Earth dist.	-8777 Dec 06 j 13:30	12°♈47'26	29.16115 AU
direct	-8776 Feb 24 j 17:30	11°♈23'43	
evening set	-8776 May 25 j 23:18	13°♈20'43	
conjunction	-8776 Jun 10 j 20:17	13°♈56'00	-0°04'47
minimum elong	-8776 Jun 10 j 20:18	13°♈56'00	0°04'44
behind sun begin	-8776 Jun 10 j 13:57	13°♈55'26	
behind sun end	-8776 Jun 11 j 02:39	13°♈56'34	
max. Earth dist.	-8776 Jun 09 j 17:16	13°♈53'29	31.16392 AU
morning rise	-8776 Jun 26 j 13:07	14°♈30'57	
retrograde	-8776 Sep 20 j 18:49	16°♈22'49	
opposition	-8776 Dec 07 j 00:19	15°♈00'54	-0°01'58
min. Earth dist.	-8776 Dec 08 j 01:46	14°♈59'09	29.16733 AU
direct	-8775 Feb 26 j 05:29	13°♈35'30	
asc. node	-8775 Mar 31 j 21:22	13°♈53'31	
evening set	-8775 May 28 j 11:05	15°♈32'27	
max. Earth dist.	-8775 Jun 12 j 04:56	16°♈05'13	31.17001 AU
conjunction	-8775 Jun 13 j 07:31	16°♈07'42	0°01'12
minimum elong	-8775 Jun 13 j 07:31	16°♈07'42	0°01'18
behind sun begin	-8775 Jun 13 j 01:02	16°♈07'07	
behind sun end	-8775 Jun 13 j 14:00	16°♈08'17	
morning rise	-8775 Jun 28 j 23:47	16°♈42'36	
retrograde	-8775 Sep 23 j 04:27	18°♈34'26	
opposition	-8775 Dec 09 j 11:43	17°♈12'31	0°04'18
min. Earth dist.	-8775 Dec 10 j 12:31	17°♈10'49	29.17333 AU
direct	-8774 Feb 28 j 19:37	15°♈47'07	
evening set	-8774 May 30 j 22:39	17°♈44'01	
conjunction	-8774 Jun 15 j 18:23	18°♈19'13	0°07'04
minimum elong	-8774 Jun 15 j 18:23	18°♈19'13	0°07'10
behind sun begin	-8774 Jun 15 j 12:24	18°♈18'41	
behind sun end	-8774 Jun 16 j 00:21	18°♈19'45	
max. Earth dist.	-8774 Jun 14 j 15:23	18°♈16'42	31.17614 AU
morning rise	-8774 Jul 01 j 10:07	18°♈54'05	
retrograde	-8774 Sep 25 j 15:07	20°♈45'53	
opposition	-8774 Dec 11 j 23:11	19°♈23'58	0°10'33
min. Earth dist.	-8774 Dec 12 j 23:53	19°♈22'16	29.17988 AU
direct	-8773 Mar 03 j 07:10	17°♈58'36	
evening set	-8773 Jun 02 j 10:03	19°♈55'26	
max. Earth dist.	-8773 Jun 17 j 03:36	20°♈28'12	31.18305 AU
conjunction	-8773 Jun 18 j 05:19	20°♈30'36	0°12'53
minimum elong	-8773 Jun 18 j 05:19	20°♈30'36	0°13'02
behind sun begin	-8773 Jun 18 j 01:24	20°♈30'15	
behind sun end	-8773 Jun 18 j 09:14	20°♈30'57	
morning rise	-8773 Jul 03 j 20:22	21°♈05'25	
retrograde	-8773 Sep 27 j 23:40	22°♈57'13	
opposition	-8773 Dec 14 j 10:34	21°♈35'19	0°16'47
min. Earth dist.	-8773 Dec 15 j 11:08	21°♈33'37	29.18719 AU
direct	-8772 Mar 04 j 20:09	20°♈09'59	
evening set	-8772 Jun 03 j 21:29	22°♈06'47	
conjunction	-8772 Jun 19 j 16:00	22°♈41'54	0°18'42

Attention, astronomical year style is used: The year -8772 in astronomical counting style is the year 8773 BCE in historical counting style.

minimum elong	-8772 Jun	19 j 16:00	22°♈41'54	0°18'51
max. Earth dist.	-8772 Jun	18 j 13:37	22°♈39'26	31.19090 AU
morning rise	-8772 Jul	05 j 06:37	23°♈16'41	
retrograde	-8772 Sep	29 j 09:41	25°♈08'29	
opposition	-8772 Dec	15 j 22:00	23°♈46'37	0°22'59
min. Earth dist.	-8772 Dec	16 j 21:42	23°♈44'59	29.19557 AU
direct	-8771 Mar	07 j 07:00	22°♈21'20	
evening set	-8771 Jun	06 j 08:43	24°♈18'07	
max. Earth dist.	-8771 Jun	21 j 01:53	24°♈50'52	31.19964 AU
conjunction	-8771 Jun	22 j 02:45	24°♈53'12	0°24'29
minimum elong	-8771 Jun	22 j 02:44	24°♈53'12	0°24'40
morning rise	-8771 Jul	07 j 16:35	25°♈27'56	
retrograde	-8771 Oct	01 j 18:28	27°♈19'46	
opposition	-8771 Dec	18 j 09:37	25°♈57'56	0°29'10
min. Earth dist.	-8771 Dec	19 j 09:48	25°♈56'17	29.20462 AU
direct	-8770 Mar	09 j 18:12	24°♈32'44	
evening set	-8770 Jun	08 j 20:03	26°♈29'29	
max. Earth dist.	-8770 Jun	23 j 11:53	27°♈02'09	31.20899 AU
conjunction	-8770 Jun	24 j 13:17	27°♈04'31	0°30'15
minimum elong	-8770 Jun	24 j 13:17	27°♈04'31	0°30'26
morning rise	-8770 Jul	10 j 02:42	27°♈39'14	
retrograde	-8770 Oct	04 j 05:54	29°♈31'06	
opposition	-8770 Dec	20 j 21:12	28°♈09'19	0°35'18
min. Earth dist.	-8770 Dec	21 j 20:07	28°♈07'45	29.21407 AU
direct	-8769 Mar	12 j 04:57	26°♈44'12	
evening set	-8769 Jun	11 j 07:04	28°♈40'56	
conjunction	-8769 Jun	26 j 23:47	29°♈15'56	0°35'58
minimum elong	-8769 Jun	26 j 23:47	29°♈15'55	0°36'11
max. Earth dist.	-8769 Jun	25 j 23:21	29°♈13'38	31.21826 AU
morning rise	-8769 Jul	12 j 12:29	29°♈50'36	
	-8769 Jul	16 j 20:19	0°♉	
retrograde	-8769 Oct	06 j 16:09	1°♉42'31	
opposition	-8769 Dec	23 j 09:00	0°♉20'47	0°41'23
min. Earth dist.	-8769 Dec	24 j 08:52	0°♉19'09	29.22316 AU
	-8768 Jan	05 j 03:31	30°℞♈	
direct	-8768 Mar	13 j 17:15	28°♈55'44	
	-8768 May	17 j 23:30	0°♉	
evening set	-8768 Jun	12 j 18:19	0°♉52'27	
max. Earth dist.	-8768 Jun	27 j 09:34	1°♉25'04	31.22697 AU
conjunction	-8768 Jun	28 j 10:17	1°♉27'23	0°41'38
minimum elong	-8768 Jun	28 j 10:16	1°♉27'23	0°41'51
morning rise	-8768 Jul	13 j 22:27	2°♉02'01	
retrograde	-8768 Oct	08 j 03:54	3°♉53'59	
opposition	-8768 Dec	24 j 20:38	2°♉32'16	0°47'25
min. Earth dist.	-8768 Dec	25 j 19:33	2°♉30'42	29.23134 AU
direct	-8767 Mar	16 j 06:23	1°♉07'17	
evening set	-8767 Jun	15 j 05:31	3°♉03'58	
conjunction	-8767 Jun	30 j 20:49	3°♉38'51	0°47'14
minimum elong	-8767 Jun	30 j 20:48	3°♉38'51	0°47'29
max. Earth dist.	-8767 Jun	29 j 20:12	3°♉36'33	31.23448 AU
morning rise	-8767 Jul	16 j 08:18	4°♉13'26	
retrograde	-8767 Oct	10 j 14:31	6°♉05'27	
opposition	-8767 Dec	27 j 08:38	4°♉43'44	0°53'22
min. Earth dist.	-8767 Dec	28 j 08:19	4°♉42'07	29.23835 AU
direct	-8766 Mar	18 j 17:45	3°♉18'49	
evening set	-8766 Jun	17 j 16:30	5°♉15'26	
max. Earth dist.	-8766 Jul	02 j 07:06	5°♉48'01	31.24075 AU
conjunction	-8766 Jul	03 j 07:08	5°♉50'17	0°52'46
minimum elong	-8766 Jul	03 j 07:08	5°♉50'17	0°53'01
morning rise	-8766 Jul	18 j 18:00	6°♉24'49	
retrograde	-8766 Oct	13 j 00:52	8°♉16'52	
opposition	-8766 Dec	29 j 20:37	6°♉55'08	0°59'14
min. Earth dist.	-8766 Dec	30 j 19:37	6°♉53'34	29.24387 AU
direct	-8765 Mar	21 j 08:21	5°♉30'15	
evening set	-8765 Jun	20 j 03:33	7°♉26'48	
conjunction	-8765 Jul	05 j 17:26	8°♉01'36	0°58'13
minimum elong	-8765 Jul	05 j 17:25	8°♉01'36	0°58'30
max. Earth dist.	-8765 Jul	04 j 16:46	7°♉59'17	31.24556 AU
morning rise	-8765 Jul	21 j 03:46	8°♉36'05	
retrograde	-8765 Oct	15 j 12:19	10°♉28'09	
opposition	-8764 Jan	01 j 08:25	9°♉06'24	1°05'01
min. Earth dist.	-8764 Jan	02 j 07:30	9°♉04'50	29.24820 AU
direct	-8764 Mar	22 j 20:39	7°♉41'31	
evening set	-8764 Jun	21 j 14:19	9°♉38'01	
max. Earth dist.	-8764 Jul	06 j 04:09	10°♉10'33	31.24924 AU
conjunction	-8764 Jul	07 j 03:41	10°♉12'45	1°03'34
minimum elong	-8764 Jul	07 j 03:41	10°♉12'45	1°03'52
morning rise	-8764 Jul	22 j 13:19	10°♉47'12	
retrograde	-8764 Oct	16 j 20:44	12°♉39'17	
opposition	-8763 Jan	02 j 20:26	11°♉17'30	1°10'42
min. Earth dist.	-8763 Jan	03 j 19:29	11°♉15'55	29.25134 AU
direct	-8763 Mar	25 j 10:18	9°♉52'37	
evening set	-8763 Jun	24 j 01:04	11°♉49'01	
conjunction	-8763 Jul	09 j 13:35	12°♉23'42	1°08'50
minimum elong	-8763 Jul	09 j 13:34	12°♉23'42	1°09'11
max. Earth dist.	-8763 Jul	08 j 13:25	12°♉21'26	31.25202 AU
morning rise	-8763 Jul	24 j 22:45	12°♉58'06	
retrograde	-8763 Oct	19 j 06:38	14°♉50'13	
opposition	-8762 Jan	05 j 08:23	13°♉28'22	1°16'16
min. Earth dist.	-8762 Jan	06 j 06:32	13°♉26'52	29.25402 AU
direct	-8762 Mar	27 j 21:58	12°♉03'30	
evening set	-8762 Jun	26 j 11:30	13°♉59'48	
conjunction	-8762 Jul	11 j 23:30	14°♉34'27	1°14'00
minimum elong	-8762 Jul	11 j 23:29	14°♉34'27	1°14'20
max. Earth dist.	-8762 Jul	11 j 01:02	14°♉32'20	31.25454 AU
	-8762 Jul	23 j 08:30	15°♉	
morning rise	-8762 Jul	27 j 07:55	15°♉08'48	
retrograde	-8762 Oct	21 j 15:04	17°♉00'56	
opposition	-8761 Jan	07 j 20:29	15°♉39'03	1°21'44
min. Earth dist.	-8761 Jan	08 j 18:48	15°♉37'32	29.25670 AU
	-8761 Feb	01 j 16:44	15°℞♉	
direct	-8761 Mar	30 j 09:55	14°♉14'11	
	-8761 May	23 j 17:50	15°♉	
evening set	-8761 Jun	28 j 21:52	16°♉10'24	
max. Earth dist.	-8761 Jul	13 j 10:29	16°♉42'52	31.25745 AU
conjunction	-8761 Jul	14 j 09:03	16°♉44'59	1°19'03
minimum elong	-8761 Jul	14 j 09:02	16°♉44'59	1°19'25
morning rise	-8761 Jul	29 j 17:03	17°♉19'18	
retrograde	-8761 Oct	24 j 01:44	19°♉11'30	
opposition	-8760 Jan	10 j 08:25	17°♉49'34	1°27'04
min. Earth dist.	-8760 Jan	11 j 04:59	17°♉48'10	29.26001 AU
direct	-8760 Mar	31 j 21:17	16°♉24'43	
evening set	-8760 Jun	30 j 08:08	18°♉20'53	
conjunction	-8760 Jul	15 j 18:44	18°♉55'25	1°23'59
minimum elong	-8760 Jul	15 j 18:43	18°♉55'24	1°24'21
max. Earth dist.	-8760 Jul	14 j 21:31	18°♉53'25	31.26104 AU
morning rise	-8760 Jul	31 j 02:00	19°♉29'41	
retrograde	-8760 Oct	25 j 11:20	21°♉21'57	
opposition	-8759 Jan	11 j 20:28	19°♉59'59	1°32'17
min. Earth dist.	-8759 Jan	12 j 17:16	19°♉58'35	29.26419 AU
direct	-8759 Apr	03 j 08:39	18°♉35'12	
evening set	-8759 Jul	02 j 18:24	20°♉31'18	

Attention, astronomical year style is used: The year -8759 in astronomical counting style is the year 8760 BCE in historical counting style.

max. Earth dist.	-8759 Jul 17 j 07:40	21°♉03'51	31.26575 AU	
conjunction	-8759 Jul 18 j 04:16	21°♉05'47	1°28'48	
minimum elong	-8759 Jul 18 j 04:15	21°♉05'47	1°29'12	
morning rise	-8759 Aug 02 j 11:03	21°♉40'01		
retrograde	-8759 Oct 27 j 22:39	23°♉32'22		
opposition	-8758 Jan 14 j 08:35	22°♉10'25	1°37'21	
min. Earth dist.	-8758 Jan 15 j 03:35	22°♉09'08	29.26933 AU	
direct	-8758 Apr 05 j 20:32	20°♉45'43		
evening set	-8758 Jul 05 j 04:28	22°♉41'46		
conjunction	-8758 Jul 20 j 13:40	23°♉16'13	1°33'29	
minimum elong	-8758 Jul 20 j 13:39	23°♉16'13	1°33'53	
max. Earth dist.	-8758 Jul 19 j 17:51	23°♉14'21	31.27120 AU	
morning rise	-8758 Aug 04 j 19:53	23°♉50'25		
retrograde	-8758 Oct 30 j 09:37	25°♉42'53		
opposition	-8757 Jan 16 j 20:52	24°♉20'56	1°42'18	
min. Earth dist.	-8757 Jan 17 j 15:55	24°♉19'38	29.27520 AU	
direct	-8757 Apr 08 j 06:55	22°♉56'19		
evening set	-8757 Jul 07 j 14:33	24°♉52'21		
conjunction	-8757 Jul 22 j 23:10	25°♉26'45	1°38'02	
minimum elong	-8757 Jul 22 j 23:09	25°♉26'45	1°38'28	
max. Earth dist.	-8757 Jul 22 j 04:39	25°♉25'00	31.27716 AU	
morning rise	-8757 Aug 07 j 04:48	26°♉00'55		
retrograde	-8757 Nov 01 j 20:22	27°♉53'29		
opposition	-8756 Jan 19 j 08:57	26°♉31'34	1°47'05	
min. Earth dist.	-8756 Jan 20 j 02:54	26°♉30'21	29.28111 AU	
direct	-8756 Apr 09 j 20:34	25°♉07'03		
evening set	-8756 Jul 09 j 00:44	27°♉03'03		
conjunction	-8756 Jul 24 j 08:35	27°♉37'25	1°42'27	
minimum elong	-8756 Jul 24 j 08:34	27°♉37'24	1°42'53	
max. Earth dist.	-8756 Jul 23 j 13:50	27°♉35'39	31.28284 AU	
morning rise	-8756 Aug 08 j 13:47	28°♉11'32		
	-8756 Oct 18 j 12:40	0°♊		
retrograde	-8756 Nov 03 j 08:47	0°♊04'14		
	-8756 Nov 19 j 05:44	30°℞♉		
opposition	-8755 Jan 20 j 21:19	28°♉42'19	1°51'44	
min. Earth dist.	-8755 Jan 21 j 14:51	28°♉41'08	29.28666 AU	
direct	-8755 Apr 12 j 08:14	27°♉17'54		
evening set	-8755 Jul 11 j 10:41	29°♉13'53		
conjunction	-8755 Jul 26 j 18:02	29°♉48'11	1°46'43	
minimum elong	-8755 Jul 26 j 18:01	29°♉48'11	1°47'11	
max. Earth dist.	-8755 Jul 26 j 00:50	29°♉46'34	31.28785 AU	
	-8755 Jul 31 j 23:24	0°♊		
morning rise	-8755 Aug 10 j 22:32	0°♊22'17		
retrograde	-8755 Nov 05 j 17:59	2°♊15'06		
opposition	-8754 Jan 23 j 09:52	0°♊53'12	1°56'12	
min. Earth dist.	-8754 Jan 24 j 03:07	0°♊52'02	29.29117 AU	
	-8754 Feb 27 j 21:17	30°℞♉		
direct	-8754 Apr 14 j 21:16	29°♉28'52		
	-8754 May 29 j 04:07	0°♊		
evening set	-8754 Jul 13 j 20:51	1°♊24'47		
max. Earth dist.	-8754 Jul 28 j 09:40	1°♊57'23	31.29177 AU	
conjunction	-8754 Jul 29 j 03:24	1°♊59'03	1°50'50	
minimum elong	-8754 Jul 29 j 03:23	1°♊59'03	1°51'17	
morning rise	-8754 Aug 13 j 07:33	2°♊33'07		
retrograde	-8754 Nov 08 j 04:44	4°♊26'02		
opposition	-8753 Jan 25 j 22:18	3°♊04'08	2°00'31	
min. Earth dist.	-8753 Jan 26 j 14:33	3°♊03'02	29.29461 AU	
direct	-8753 Apr 17 j 08:53	1°♊39'51		
evening set	-8753 Jul 16 j 06:43	3°♊35'43		
conjunction	-8753 Jul 31 j 12:51	4°♊09'57	1°54'47	
minimum elong	-8753 Jul 31 j 12:50	4°♊09'57	1°55'16	
max. Earth dist.	-8753 Jul 30 j 20:36	4°♊08'25	31.29437 AU	
morning rise	-8753 Aug 15 j 16:22	4°♊43'59		
retrograde	-8753 Nov 10 j 13:55	6°♊37'00		
opposition	-8752 Jan 28 j 10:55	5°♊15'03	2°04'40	
min. Earth dist.	-8752 Jan 29 j 03:30	5°♊13'56	29.29655 AU	
direct	-8752 Apr 18 j 21:10	3°♊50'50		
evening set	-8752 Jul 17 j 16:42	5°♊46'37		
conjunction	-8752 Aug 01 j 22:06	6°♊20'48	1°58'34	
minimum elong	-8752 Aug 01 j 22:05	6°♊20'48	1°59'03	
max. Earth dist.	-8752 Aug 01 j 05:35	6°♊19'14	31.29565 AU	
morning rise	-8752 Aug 17 j 01:17	6°♊54'48		
retrograde	-8752 Nov 12 j 00:42	8°♊47'55		
opposition	-8751 Jan 29 j 23:20	7°♊25'56	2°08'37	
min. Earth dist.	-8751 Jan 30 j 14:21	7°♊24'55	29.29726 AU	
direct	-8751 Apr 21 j 08:53	6°♊01'43		
evening set	-8751 Jul 20 j 02:29	7°♊57'25		
conjunction	-8751 Aug 04 j 07:24	8°♊31'34	2°02'11	
minimum elong	-8751 Aug 04 j 07:24	8°♊31'34	2°02'42	
max. Earth dist.	-8751 Aug 03 j 15:58	8°♊30'06	31.29575 AU	
morning rise	-8751 Aug 19 j 10:03	9°♊05'32		
retrograde	-8751 Nov 14 j 10:15	10°♊58'45		
opposition	-8750 Feb 01 j 12:05	9°♊36'41	2°12'24	
min. Earth dist.	-8750 Feb 02 j 03:25	9°♊35'39	29.29709 AU	
direct	-8750 Apr 23 j 20:03	8°♊12'30		
evening set	-8750 Jul 22 j 12:03	10°♊08'05		
conjunction	-8750 Aug 06 j 16:25	10°♊42'11	2°05'38	
minimum elong	-8750 Aug 06 j 16:24	10°♊42'11	2°06'08	
max. Earth dist.	-8750 Aug 06 j 01:45	10°♊40'48	31.29533 AU	
morning rise	-8750 Aug 21 j 18:42	11°♊16'07		
retrograde	-8750 Nov 16 j 21:02	13°♊09'25		
opposition	-8749 Feb 04 j 00:36	11°♊47'17	2°15'59	
min. Earth dist.	-8749 Feb 04 j 14:09	11°♊46'22	29.29654 AU	
direct	-8749 Apr 26 j 07:23	10°♊23'07		
evening set	-8749 Jul 24 j 21:38	12°♊18'36		
max. Earth dist.	-8749 Aug 08 j 11:27	12°♊51'21	31.29470 AU	
conjunction	-8749 Aug 09 j 01:26	12°♊52'40	2°08'54	
minimum elong	-8749 Aug 09 j 01:26	12°♊52'40	2°09'25	
morning rise	-8749 Aug 24 j 03:21	13°♊26'34		
retrograde	-8749 Nov 19 j 07:58	15°♊19'58		
opposition	-8748 Feb 06 j 13:05	13°♊57'45	2°19'22	
min. Earth dist.	-8748 Feb 07 j 02:31	13°♊56'51	29.29627 AU	
direct	-8748 Apr 27 j 17:42	12°♊33'36		
evening set	-8748 Jul 26 j 07:05	14°♊29'00		
conjunction	-8748 Aug 10 j 10:28	15°♊03'01	2°11'58	
minimum elong	-8748 Aug 10 j 10:27	15°♊03'01	2°12'29	
max. Earth dist.	-8748 Aug 09 j 22:11	15°♊01'51	31.29467 AU	
morning rise	-8748 Aug 25 j 11:55	15°♊36'54		
retrograde	-8748 Nov 20 j 18:51	17°♊30'23		
opposition	-8747 Feb 08 j 01:41	16°♊08'07	2°22'34	
min. Earth dist.	-8747 Feb 08 j 13:26	16°♊07'19	29.29662 AU	
direct	-8747 Apr 30 j 07:10	14°♊44'00		
evening set	-8747 Jul 28 j 16:28	16°♊39'20		
conjunction	-8747 Aug 12 j 19:13	17°♊13'18	2°14'52	
minimum elong	-8747 Aug 12 j 19:12	17°♊13'18	2°15'24	
max. Earth dist.	-8747 Aug 12 j 07:10	17°♊12'10	31.29543 AU	
morning rise	-8747 Aug 27 j 20:26	17°♊47'09		
retrograde	-8747 Nov 23 j 07:33	19°♊40'46		
opposition	-8746 Feb 10 j 14:23	18°♊18'27	2°25'33	
min. Earth dist.	-8746 Feb 11 j 01:05	18°♊17'43	29.29799 AU	
direct	-8746 May 02 j 18:04	16°♊54'24		

Attention, astronomical year style is used: The year -8746 in astronomical counting style is the year 8747 BCE in historical counting style.

evening set	-8746 Jul 31 j 01:45	18°♊49'39	
conjunction	-8746 Aug 15 j 04:13	19°♊23'36	2°17'33
minimum elong	-8746 Aug 15 j 04:13	19°♊23'36	2°18'05
max. Earth dist.	-8746 Aug 14 j 18:17	19°♊22'40	31.29715 AU
morning rise	-8746 Aug 30 j 04:59	19°♊57'26	
retrograde	-8746 Nov 25 j 17:01	21°♊51'10	
opposition	-8745 Feb 13 j 03:02	20°♊28'49	2°28'20
min. Earth dist.	-8745 Feb 13 j 12:53	20°♊28'10	29.30006 AU
direct	-8745 May 05 j 06:24	19°♊04'52	
evening set	-8745 Aug 02 j 11:04	21°♊00'03	
conjunction	-8745 Aug 17 j 12:59	21°♊33'58	2°20'03
minimum elong	-8745 Aug 17 j 12:59	21°♊33'58	2°20'37
max. Earth dist.	-8745 Aug 17 j 03:04	21°♊33'02	31.29948 AU
morning rise	-8745 Sep 01 j 13:39	22°♊07'47	
retrograde	-8745 Nov 28 j 04:46	24°♊01'39	
opposition	-8744 Feb 15 j 15:42	22°♊39'18	2°30'53
min. Earth dist.	-8744 Feb 16 j 00:04	22°♊38'44	29.30255 AU
direct	-8744 May 06 j 18:06	21°♊15'25	
evening set	-8744 Aug 03 j 20:16	23°♊10'33	
conjunction	-8744 Aug 18 j 21:54	23°♊44'27	2°22'21
minimum elong	-8744 Aug 18 j 21:54	23°♊44'27	2°22'54
max. Earth dist.	-8744 Aug 18 j 13:52	23°♊43'41	31.30179 AU
morning rise	-8744 Sep 02 j 22:08	24°♊18'15	
retrograde	-8744 Nov 29 j 14:51	26°♊12'16	
opposition	-8743 Feb 17 j 04:36	24°♊49'54	2°33'14
min. Earth dist.	-8743 Feb 17 j 12:57	24°♊49'20	29.30473 AU
direct	-8743 May 09 j 06:23	23°♊26'07	
evening set	-8743 Aug 06 j 05:40	25°♊21'11	
conjunction	-8743 Aug 21 j 06:48	25°♊55'03	2°24'27
minimum elong	-8743 Aug 21 j 06:48	25°♊55'03	2°25'01
max. Earth dist.	-8743 Aug 20 j 22:58	25°♊54'19	31.30373 AU
morning rise	-8743 Sep 05 j 06:55	26°♊28'51	
retrograde	-8743 Dec 02 j 02:17	28°♊23'00	
opposition	-8742 Feb 19 j 17:30	27°♊00'38	2°35'22
min. Earth dist.	-8742 Feb 20 j 00:00	27°♊00'12	29.30628 AU
direct	-8742 May 11 j 17:48	25°♊36'56	
evening set	-8742 Aug 08 j 14:53	27°♊31'56	
conjunction	-8742 Aug 23 j 15:45	28°♊05'47	2°26'21
minimum elong	-8742 Aug 23 j 15:44	28°♊05'47	2°26'53
max. Earth dist.	-8742 Aug 23 j 08:56	28°♊05'08	31.30461 AU
morning rise	-8742 Sep 07 j 15:36	28°♊39'34	
	-8742 Oct 20 j 01:40	0°♋	
retrograde	-8742 Dec 04 j 12:25	0°♋33'53	
	-8741 Jan 21 j 02:48	30°℞♊	
opposition	-8741 Feb 22 j 06:36	29°♊11'28	2°37'17
min. Earth dist.	-8741 Feb 22 j 13:27	29°♊11'01	29.30664 AU
direct	-8741 May 14 j 04:36	27°♊47'51	
evening set	-8741 Aug 11 j 00:16	29°♊42'46	
	-8741 Aug 18 j 17:09	0°♋	
conjunction	-8741 Aug 26 j 00:49	0°♋16'36	2°28'01
minimum elong	-8741 Aug 26 j 00:49	0°♋16'36	2°28'35
max. Earth dist.	-8741 Aug 25 j 18:41	0°♋16'01	31.30425 AU
morning rise	-8741 Sep 10 j 00:30	0°♋50'23	
retrograde	-8741 Dec 06 j 23:34	2°♋44'49	
opposition	-8740 Feb 24 j 19:24	1°♋22'22	2°38'58
min. Earth dist.	-8740 Feb 25 j 00:40	1°♋22'01	29.30547 AU
	-8740 May 07 j 01:07	30°℞♊	
direct	-8740 May 15 j 15:44	29°♊58'48	
	-8740 May 24 j 05:21	0°♋	
evening set	-8740 Aug 12 j 09:39	1°♋53'39	
conjunction	-8740 Aug 27 j 09:51	2°♋27'28	2°29'30
minimum elong	-8740 Aug 27 j 09:51	2°♋27'28	2°30'03
max. Earth dist.	-8740 Aug 27 j 03:55	2°♋26'54	31.30223 AU
morning rise	-8740 Sep 11 j 09:27	3°♋01'14	
retrograde	-8740 Dec 08 j 11:24	4°♋55'49	
opposition	-8739 Feb 26 j 08:33	3°♋33'18	2°40'26
min. Earth dist.	-8739 Feb 26 j 13:57	3°♋32'57	29.30281 AU
direct	-8739 May 18 j 01:56	2°♋09'47	
evening set	-8739 Aug 14 j 18:44	4°♋04'31	
conjunction	-8739 Aug 29 j 18:50	4°♋38'19	2°30'45
minimum elong	-8739 Aug 29 j 18:50	4°♋38'19	2°31'20
max. Earth dist.	-8739 Aug 29 j 14:26	4°♋37'54	31.29886 AU
morning rise	-8739 Sep 13 j 18:14	5°♋12'05	
retrograde	-8739 Dec 10 j 22:50	7°♋06'47	
opposition	-8738 Feb 28 j 21:38	5°♋44'12	2°41'40
min. Earth dist.	-8738 Mar 01 j 01:42	5°♋43'56	29.29873 AU
direct	-8738 May 20 j 14:54	4°♋20'42	
evening set	-8738 Aug 17 j 03:58	6°♋15'21	
conjunction	-8738 Sep 01 j 03:43	6°♋49'07	2°31'48
minimum elong	-8738 Sep 01 j 03:43	6°♋49'07	2°32'21
max. Earth dist.	-8738 Aug 31 j 23:09	6°♋48'41	31.29428 AU
morning rise	-8738 Sep 16 j 03:14	7°♋22'53	
retrograde	-8738 Dec 13 j 11:59	9°♋17'42	
opposition	-8737 Mar 03 j 10:34	7°♋55'01	2°42'40
min. Earth dist.	-8737 Mar 03 j 13:56	7°♋54'48	29.29389 AU
direct	-8737 May 23 j 01:19	6°♋31'31	
evening set	-8737 Aug 19 j 12:54	8°♋26'04	
conjunction	-8737 Sep 03 j 12:39	8°♋59'51	2°32'37
minimum elong	-8737 Sep 03 j 12:39	8°♋59'51	2°33'12
max. Earth dist.	-8737 Sep 03 j 10:03	8°♋59'36	31.28912 AU
morning rise	-8737 Sep 18 j 11:59	9°♋33'37	
retrograde	-8737 Dec 15 j 21:51	11°♋28'31	
opposition	-8736 Mar 04 j 23:34	10°♋05'45	2°43'26
min. Earth dist.	-8736 Mar 05 j 02:05	10°♋05'35	29.28860 AU
direct	-8736 May 24 j 13:44	8°♋42'17	
evening set	-8736 Aug 20 j 21:53	10°♋36'44	
conjunction	-8736 Sep 04 j 21:19	11°♋10'29	2°33'14
minimum elong	-8736 Sep 04 j 21:19	11°♋10'29	2°33'47
max. Earth dist.	-8736 Sep 04 j 18:53	11°♋10'15	31.28396 AU
morning rise	-8736 Sep 19 j 20:47	11°♋44'15	
retrograde	-8736 Dec 17 j 10:06	13°♋39'16	
opposition	-8735 Mar 07 j 12:31	12°♋16'26	2°43'58
min. Earth dist.	-8735 Mar 07 j 13:20	12°♋16'22	29.28373 AU
direct	-8735 May 27 j 01:50	10°♋52'59	
evening set	-8735 Aug 23 j 06:46	12°♋47'20	
conjunction	-8735 Sep 07 j 06:12	13°♋21'05	2°33'38
minimum elong	-8735 Sep 07 j 06:12	13°♋21'05	2°34'12
max. Earth dist.	-8735 Sep 07 j 05:49	13°♋21'03	31.27934 AU
morning rise	-8735 Sep 22 j 05:34	13°♋54'52	
retrograde	-8735 Dec 19 j 20:56	15°♋50'01	
opposition	-8734 Mar 10 j 01:36	14°♋27'05	2°44'16
min. Earth dist.	-8734 Mar 10 j 01:58	14°♋27'04	29.27956 AU
direct	-8734 May 29 j 14:11	13°♋03'42	
evening set	-8734 Aug 25 j 15:37	14°♋57'57	
conjunction	-8734 Sep 09 j 14:56	15°♋31'43	2°33'48
minimum elong	-8734 Sep 09 j 14:56	15°♋31'43	2°34'21
max. Earth dist.	-8734 Sep 09 j 15:14	15°♋31'44	31.27568 AU
morning rise	-8734 Sep 24 j 14:29	16°♋05'30	
retrograde	-8734 Dec 22 j 08:13	18°♋00'47	
opposition	-8733 Mar 12 j 14:30	16°♋37'49	2°44'20
min. Earth dist.	-8733 Mar 12 j 12:37	16°♋37'57	29.27624 AU

Attention, astronomical year style is used: The year -8733 in astronomical counting style is the year 8734 BCE in historical counting style.

direct	-8733 Jun 01 j 01:33	15°♋14'29	
evening set	-8733 Aug 28 j 00:30	17°♋08'40	
conjunction	-8733 Sep 11 j 23:48	17°♋42'25	2°33'45
minimum elong	-8733 Sep 11 j 23:48	17°♋42'25	2°34'18
max. Earth dist.	-8733 Sep 12 j 01:18	17°♋42'34	31.27260 AU
morning rise	-8733 Sep 26 j 23:26	18°♋16'14	
retrograde	-8733 Dec 24 j 18:06	20°♋11'39	
opposition	-8732 Mar 14 j 03:27	18°♋48'39	2°44'10
min. Earth dist.	-8732 Mar 14 j 01:31	18°♋48'47	29.27345 AU
direct	-8732 Jun 02 j 12:13	17°♋25'24	
evening set	-8732 Aug 29 j 09:22	19°♋19'30	
conjunction	-8732 Sep 13 j 08:42	19°♋53'16	2°33'28
minimum elong	-8732 Sep 13 j 08:42	19°♋53'16	2°34'01
max. Earth dist.	-8732 Sep 13 j 11:33	19°♋53'32	31.27004 AU
morning rise	-8732 Sep 28 j 08:26	20°♋27'05	
retrograde	-8732 Dec 26 j 05:23	22°♋22'40	
opposition	-8731 Mar 16 j 16:27	20°♋59'38	2°43'45
min. Earth dist.	-8731 Mar 16 j 12:30	20°♋59'54	29.27083 AU
direct	-8731 Jun 04 j 23:09	19°♋36'27	
evening set	-8731 Aug 31 j 18:15	21°♋30'29	
conjunction	-8731 Sep 15 j 17:31	22°♋04'15	2°32'58
minimum elong	-8731 Sep 15 j 17:31	22°♋04'15	2°33'32
max. Earth dist.	-8731 Sep 15 j 20:48	22°♋04'34	31.26732 AU
morning rise	-8731 Sep 30 j 17:32	22°♋38'06	
retrograde	-8731 Dec 28 j 17:38	24°♋33'50	
opposition	-8730 Mar 19 j 05:40	23°♋10'46	2°43'06
min. Earth dist.	-8730 Mar 19 j 01:41	23°♋11'02	29.26795 AU
direct	-8730 Jun 07 j 08:52	21°♋47'39	
evening set	-8730 Sep 03 j 03:10	23°♋41'36	
conjunction	-8730 Sep 18 j 02:39	24°♋15'23	2°32'15
minimum elong	-8730 Sep 18 j 02:39	24°♋15'23	2°32'47
max. Earth dist.	-8730 Sep 18 j 07:40	24°♋15'52	31.26409 AU
morning rise	-8730 Oct 03 j 02:44	24°♋49'16	
retrograde	-8730 Dec 31 j 05:13	26°♋45'08	
opposition	-8729 Mar 21 j 18:36	25°♋22'01	2°42'13
min. Earth dist.	-8729 Mar 21 j 13:20	25°♋22'23	29.26419 AU
direct	-8729 Jun 09 j 20:28	23°♋58'58	
evening set	-8729 Sep 05 j 12:18	25°♋52'51	
conjunction	-8729 Sep 20 j 11:44	26°♋26'38	2°31'19
minimum elong	-8729 Sep 20 j 11:44	26°♋26'38	2°31'51
max. Earth dist.	-8729 Sep 20 j 16:21	26°♋27'05	31.25979 AU
morning rise	-8729 Oct 05 j 12:13	27°♋00'32	
retrograde	-8728 Jan 02 j 18:51	28°♋56'33	
opposition	-8728 Mar 23 j 07:47	27°♋33'22	2°41'06
min. Earth dist.	-8728 Mar 23 j 01:59	27°♋33'45	29.25928 AU
direct	-8728 Jun 11 j 05:44	26°♋10'21	
evening set	-8728 Sep 06 j 21:13	28°♋04'09	
conjunction	-8728 Sep 21 j 20:55	28°♋37'57	2°30'10
minimum elong	-8728 Sep 21 j 20:55	28°♋37'57	2°30'40
max. Earth dist.	-8728 Sep 22 j 03:14	28°♋38'33	31.25411 AU
morning rise	-8728 Oct 06 j 21:30	29°♋11'52	
	-8728 Oct 30 j 00:41	0°♌	
retrograde	-8727 Jan 04 j 05:46	1°♌08'00	
	-8727 Mar 16 j 09:06	30°℞♋	
opposition	-8727 Mar 25 j 21:00	29°♋44'45	2°39'45
min. Earth dist.	-8727 Mar 25 j 14:38	29°♋45'10	29.25278 AU
direct	-8727 Jun 13 j 18:02	28°♋21'45	
	-8727 Sep 02 j 04:31	0°♌	
evening set	-8727 Sep 09 j 06:21	0°♌15'27	
conjunction	-8727 Sep 24 j 06:06	0°♌49'16	2°28'47
minimum elong	-8727 Sep 24 j 06:07	0°♌49'16	2°29'19
max. Earth dist.	-8727 Sep 24 j 12:12	0°♌49'50	31.24704 AU
morning rise	-8727 Oct 09 j 07:10	1°♌23'12	
retrograde	-8726 Jan 06 j 19:35	3°♌19'26	
opposition	-8726 Mar 28 j 10:09	1°♌56'05	2°38'10
min. Earth dist.	-8726 Mar 28 j 02:35	1°♌56'35	29.24503 AU
direct	-8726 Jun 16 j 05:43	0°♌33'05	
evening set	-8726 Sep 11 j 15:15	2°♌26'40	
conjunction	-8726 Sep 26 j 15:21	3°♌00'30	2°27'13
minimum elong	-8726 Sep 26 j 15:22	3°♌00'31	2°27'43
max. Earth dist.	-8726 Sep 26 j 22:54	3°♌01'13	31.23864 AU
morning rise	-8726 Oct 11 j 16:42	3°♌34'29	
retrograde	-8725 Jan 09 j 07:00	5°♌30'48	
opposition	-8725 Mar 30 j 23:19	4°♌07'20	2°36'22
min. Earth dist.	-8725 Mar 30 j 15:49	4°♌07'50	29.23606 AU
direct	-8725 Jun 18 j 17:58	2°♌44'20	
evening set	-8725 Sep 14 j 00:13	4°♌37'47	
conjunction	-8725 Sep 29 j 00:31	5°♌11'39	2°25'25
minimum elong	-8725 Sep 29 j 00:31	5°♌11'39	2°25'55
max. Earth dist.	-8725 Sep 29 j 08:31	5°♌12'24	31.22944 AU
morning rise	-8725 Oct 14 j 02:16	5°♌45'39	
retrograde	-8724 Jan 11 j 18:39	7°♌42'02	
opposition	-8724 Apr 01 j 12:10	6°♌18'28	2°34'21
min. Earth dist.	-8724 Apr 01 j 02:47	6°♌19'06	29.22661 AU
direct	-8724 Jun 20 j 05:46	4°♌55'27	
evening set	-8724 Sep 15 j 09:07	6°♌48'47	
conjunction	-8724 Sep 30 j 09:39	7°♌22'40	2°23'25
minimum elong	-8724 Sep 30 j 09:40	7°♌22'40	2°23'54
max. Earth dist.	-8724 Sep 30 j 18:38	7°♌23'31	31.21998 AU
morning rise	-8724 Oct 15 j 11:50	7°♌56'42	
retrograde	-8723 Jan 13 j 05:07	9°♌53'11	
opposition	-8723 Apr 04 j 01:18	8°♌29'29	2°32'06
min. Earth dist.	-8723 Apr 03 j 15:50	8°♌30'08	29.21735 AU
direct	-8723 Jun 22 j 17:08	7°♌06'29	
evening set	-8723 Sep 17 j 17:52	8°♌59'42	
conjunction	-8723 Oct 02 j 18:47	9°♌33'36	2°21'13
minimum elong	-8723 Oct 02 j 18:48	9°♌33'36	2°21'41
max. Earth dist.	-8723 Oct 03 j 05:21	9°♌34'36	31.21113 AU
morning rise	-8723 Oct 17 j 21:20	10°♌07'40	
retrograde	-8722 Jan 15 j 16:28	12°♌04'15	
opposition	-8722 Apr 06 j 14:12	10°♌40'28	2°29'38
min. Earth dist.	-8722 Apr 06 j 02:35	10°♌41'15	29.20883 AU
direct	-8722 Jun 25 j 04:46	9°♌17'28	
evening set	-8722 Sep 20 j 02:52	11°♌10'35	
conjunction	-8722 Oct 05 j 03:59	11°♌44'31	2°18'49
minimum elong	-8722 Oct 05 j 04:00	11°♌44'31	2°19'15
max. Earth dist.	-8722 Oct 05 j 14:59	11°♌45'34	31.20311 AU
morning rise	-8722 Oct 20 j 07:08	12°♌18'38	
retrograde	-8721 Jan 18 j 04:16	14°♌15'20	
opposition	-8721 Apr 09 j 03:03	12°♌51'29	2°26'57
min. Earth dist.	-8721 Apr 08 j 15:11	12°♌52'17	29.20138 AU
direct	-8721 Jun 27 j 14:14	11°♌28'31	
evening set	-8721 Sep 22 j 11:41	13°♌21'33	
conjunction	-8721 Oct 07 j 13:21	13°♌55'31	2°16'12
minimum elong	-8721 Oct 07 j 13:22	13°♌55'31	2°16'39
max. Earth dist.	-8721 Oct 08 j 02:23	13°♌56'45	31.19622 AU
morning rise	-8721 Oct 22 j 16:50	14°♌29'40	
	-8721 Nov 05 j 20:41	15°♌	
retrograde	-8720 Jan 20 j 15:32	16°♌26'29	
opposition	-8720 Apr 10 j 15:54	15°♌02'35	2°24'03
min. Earth dist.	-8720 Apr 10 j 02:22	15°♌03'30	29.19483 AU

Attention, astronomical year style is used: The year -8720 in astronomical counting style is the year 8721 BCE in historical counting style.

	-8720 Apr 12 j 06:04	15°℞♌		
direct	-8720 Jun 29 j 01:16	13°♌39'41		
	-8720 Sep 08 j 12:40	15°♌		
evening set	-8720 Sep 23 j 20:36	15°♌32'39		
conjunction	-8720 Oct 08 j 22:27	16°♌06'39	2°13'23	
minimum elong	-8720 Oct 08 j 22:28	16°♌06'39	2°13'49	
max. Earth dist.	-8720 Oct 09 j 11:32	16°♌07'53	31.19020 AU	
morning rise	-8720 Oct 24 j 02:37	16°♌40'51		
retrograde	-8719 Jan 22 j 05:12	18°♌37'49		
opposition	-8719 Apr 13 j 04:54	17°♌13'52	2°20'57	
min. Earth dist.	-8719 Apr 12 j 14:31	17°♌14'51	29.18913 AU	
direct	-8719 Jul 01 j 09:44	15°♌51'01		
evening set	-8719 Sep 26 j 05:32	17°♌43'57		
conjunction	-8719 Oct 11 j 07:59	18°♌17'59	2°10'22	
minimum elong	-8719 Oct 11 j 08:00	18°♌17'59	2°10'49	
max. Earth dist.	-8719 Oct 11 j 23:02	18°♌19'24	31.18473 AU	
morning rise	-8719 Oct 26 j 12:33	18°♌52'14		
retrograde	-8718 Jan 24 j 16:54	20°♌49'20		
opposition	-8718 Apr 15 j 17:47	19°♌25'22	2°17'37	
min. Earth dist.	-8718 Apr 15 j 02:43	19°♌26'23	29.18367 AU	
direct	-8718 Jul 03 j 20:59	18°♌02'35		
evening set	-8718 Sep 28 j 14:42	19°♌55'28		
conjunction	-8718 Oct 13 j 17:28	20°♌29'32	2°07'10	
minimum elong	-8718 Oct 13 j 17:29	20°♌29'32	2°07'34	
max. Earth dist.	-8718 Oct 14 j 08:30	20°♌30'58	31.17939 AU	
morning rise	-8718 Oct 28 j 22:44	21°♌03'51		
retrograde	-8717 Jan 27 j 07:49	23°♌01'04		
opposition	-8717 Apr 18 j 06:41	21°♌37'05	2°14'06	
min. Earth dist.	-8717 Apr 17 j 14:27	21°♌38'11	29.17810 AU	
direct	-8717 Jul 06 j 07:44	20°♌14'21		
evening set	-8717 Sep 30 j 23:54	22°♌07'11		
conjunction	-8717 Oct 16 j 03:10	22°♌41'19	2°03'47	
minimum elong	-8717 Oct 16 j 03:11	22°♌41'19	2°04'10	
max. Earth dist.	-8717 Oct 16 j 19:29	22°♌42'51	31.17345 AU	
morning rise	-8717 Oct 31 j 08:55	23°♌15'40		
retrograde	-8716 Jan 29 j 20:14	25°♌13'01		
opposition	-8716 Apr 19 j 19:37	23°♌49'00	2°10'22	
min. Earth dist.	-8716 Apr 19 j 03:39	23°♌50'04	29.17171 AU	
direct	-8716 Jul 07 j 18:54	22°♌26'20		
evening set	-8716 Oct 02 j 09:15	24°♌19'06		
conjunction	-8716 Oct 17 j 13:00	24°♌53'16	2°00'12	
minimum elong	-8716 Oct 17 j 13:00	24°♌53'16	2°00'34	
max. Earth dist.	-8716 Oct 18 j 05:36	24°♌54'50	31.16674 AU	
morning rise	-8716 Nov 01 j 19:21	25°♌27'41		
retrograde	-8715 Jan 31 j 09:22	27°♌25'08		
opposition	-8715 Apr 22 j 08:32	26°♌01'04	2°06'27	
min. Earth dist.	-8715 Apr 21 j 15:02	26°♌02'15	29.16434 AU	
direct	-8715 Jul 10 j 06:24	24°♌38'26		
evening set	-8715 Oct 04 j 18:37	26°♌31'08		
conjunction	-8715 Oct 19 j 22:50	27°♌05'20	1°56'27	
minimum elong	-8715 Oct 19 j 22:51	27°♌05'20	1°56'49	
max. Earth dist.	-8715 Oct 20 j 15:45	27°♌06'56	31.15872 AU	
morning rise	-8715 Nov 04 j 05:54	27°♌39'49		
retrograde	-8714 Feb 02 j 21:24	29°♌37'22		
opposition	-8714 Apr 24 j 21:36	28°♌13'13	2°02'21	
min. Earth dist.	-8714 Apr 24 j 04:40	28°♌14'22	29.15563 AU	
direct	-8714 Jul 12 j 18:04	26°♌50'36		
evening set	-8714 Oct 07 j 04:06	28°♌43'13		
conjunction	-8714 Oct 22 j 08:59	29°♌17'28	1°52'32	
minimum elong	-8714 Oct 22 j 09:00	29°♌17'28	1°52'52	
max. Earth dist.	-8714 Oct 23 j 02:50	29°♌19'10	31.14952 AU	
morning rise	-8714 Nov 06 j 16:35	29°♌51'59		
	-8714 Nov 10 j 08:08	0°♍		
retrograde	-8713 Feb 05 j 09:56	1°♍49'36		
opposition	-8713 Apr 27 j 10:15	0°♍25'23	1°58'04	
min. Earth dist.	-8713 Apr 26 j 15:53	0°♍26'38	29.14569 AU	
	-8713 May 13 j 05:29	30°℞♌		
direct	-8713 Jul 15 j 06:21	29°♌02'45		
	-8713 Sep 12 j 10:39	0°♍		
evening set	-8713 Oct 09 j 13:38	0°♍55'17		
conjunction	-8713 Oct 24 j 18:55	1°♍29'34	1°48'27	
minimum elong	-8713 Oct 24 j 18:56	1°♍29'34	1°48'48	
max. Earth dist.	-8713 Oct 25 j 12:33	1°♍31'14	31.13919 AU	
morning rise	-8713 Nov 09 j 03:20	2°♍04'09		
retrograde	-8712 Feb 07 j 21:11	4°♍01'50		
opposition	-8712 Apr 28 j 23:08	2°♍37'30	1°53'38	
min. Earth dist.	-8712 Apr 28 j 05:07	2°♍38'43	29.13503 AU	
direct	-8712 Jul 16 j 16:19	1°♍14'51		
evening set	-8712 Oct 10 j 22:52	3°♍07'16		
conjunction	-8712 Oct 26 j 04:54	3°♍41'36	1°44'13	
minimum elong	-8712 Oct 26 j 04:55	3°♍41'36	1°44'31	
max. Earth dist.	-8712 Oct 27 j 00:18	3°♍43'26	31.12844 AU	
morning rise	-8712 Nov 10 j 13:50	4°♍16'13		
retrograde	-8711 Feb 09 j 07:39	6°♍13'58		
opposition	-8711 May 01 j 11:53	4°♍49'32	1°49'01	
min. Earth dist.	-8711 Apr 30 j 16:34	4°♍50'51	29.12417 AU	
direct	-8711 Jul 19 j 03:57	3°♍26'51		
evening set	-8711 Oct 13 j 08:28	5°♍19'11		
conjunction	-8711 Oct 28 j 14:55	5°♍53'33	1°39'50	
minimum elong	-8711 Oct 28 j 14:56	5°♍53'33	1°40'08	
max. Earth dist.	-8711 Oct 29 j 10:02	5°♍55'21	31.11787 AU	
morning rise	-8711 Nov 13 j 00:42	6°♍28'13		
retrograde	-8710 Feb 11 j 20:51	8°♍26'02		
min. Earth dist.	-8710 May 03 j 04:41	7°♍02'50	29.11395 AU	
opposition	-8710 May 04 j 00:31	7°♍01'29	1°44'15	
direct	-8710 Jul 21 j 12:41	5°♍38'47		
evening set	-8710 Oct 15 j 17:57	7°♍31'02		
conjunction	-8710 Oct 31 j 01:09	8°♍05'27	1°35'18	
minimum elong	-8710 Oct 31 j 01:09	8°♍05'27	1°35'34	
max. Earth dist.	-8710 Oct 31 j 22:04	8°♍07'25	31.10803 AU	
morning rise	-8710 Nov 15 j 11:29	8°♍40'11		
retrograde	-8709 Feb 14 j 08:05	10°♍38'03		
opposition	-8709 May 06 j 13:07	9°♍13'25	1°39'20	
min. Earth dist.	-8709 May 05 j 16:33	9°♍14'50	29.10449 AU	
direct	-8709 Jul 24 j 00:11	7°♍50'43		
evening set	-8709 Oct 18 j 03:34	9°♍42'54		
conjunction	-8709 Nov 02 j 11:14	10°♍17'21	1°30'37	
minimum elong	-8709 Nov 02 j 11:15	10°♍17'21	1°30'53	
max. Earth dist.	-8709 Nov 03 j 08:14	10°♍19'20	31.09923 AU	
morning rise	-8709 Nov 17 j 22:22	10°♍52'08		
retrograde	-8708 Feb 16 j 22:23	12°♍50'05		
min. Earth dist.	-8708 May 07 j 03:49	11°♍26'53	29.09619 AU	
opposition	-8708 May 08 j 01:38	11°♍25'24	1°34'15	
direct	-8708 Jul 25 j 10:07	10°♍02'41		
evening set	-8708 Oct 19 j 13:13	11°♍54'50		
conjunction	-8708 Nov 03 j 21:33	12°♍29'20	1°25'49	
minimum elong	-8708 Nov 03 j 21:34	12°♍29'21	1°26'02	
max. Earth dist.	-8708 Nov 04 j 19:55	12°♍31'27	31.09145 AU	
morning rise	-8708 Nov 19 j 09:20	13°♍04'11		
retrograde	-8707 Feb 18 j 10:28	15°♍02'12		
opposition	-8707 May 10 j 14:16	13°♍37'28	1°29'02	

Attention, astronomical year style is used: The year -8707 in astronomical counting style is the year 8708 BCE in historical counting style.

min. Earth dist.	-8707 May 09 j 16:30	13°♍38'58	29.08884 AU
direct	-8707 Jul 27 j 20:23	12°♍14'48	
evening set	-8707 Oct 21 j 22:55	14°♍06'54	
conjunction	-8707 Nov 06 j 07:56	14°♍41'27	1°20'52
minimum elong	-8707 Nov 06 j 07:57	14°♍41'27	1°21'05
max. Earth dist.	-8707 Nov 07 j 06:53	14°♍43'37	31.08467 AU
morning rise	-8707 Nov 21 j 20:28	15°♍16'21	
retrograde	-8706 Feb 21 j 00:44	17°♍14'27	
min. Earth dist.	-8706 May 12 j 03:28	15°♍51'18	29.08222 AU
opposition	-8706 May 13 j 02:47	15°♍49'42	1°23'40
direct	-8706 Jul 30 j 07:43	14°♍27'03	
evening set	-8706 Oct 24 j 08:57	16°♍19'08	
conjunction	-8706 Nov 08 j 18:31	16°♍53'45	1°15'47
minimum elong	-8706 Nov 08 j 18:31	16°♍53'45	1°15'58
max. Earth dist.	-8706 Nov 09 j 17:44	16°♍55'56	31.07819 AU
morning rise	-8706 Nov 24 j 07:48	17°♍28'43	
retrograde	-8705 Feb 23 j 13:58	19°♍26'54	
opposition	-8705 May 15 j 15:16	18°♍02'07	1°18'11
min. Earth dist.	-8705 May 14 j 16:35	18°♍03'40	29.07579 AU
direct	-8705 Aug 01 j 18:44	16°♍39'31	
evening set	-8705 Oct 26 j 18:59	18°♍31'35	
conjunction	-8705 Nov 11 j 05:18	19°♍06'15	1°10'36
minimum elong	-8705 Nov 11 j 05:19	19°♍06'15	1°10'46
max. Earth dist.	-8705 Nov 12 j 05:34	19°♍08'32	31.07180 AU
morning rise	-8705 Nov 26 j 19:11	19°♍41'16	
retrograde	-8704 Feb 26 j 03:34	21°♍39'32	
min. Earth dist.	-8704 May 16 j 03:46	20°♍16'24	29.06906 AU
opposition	-8704 May 17 j 03:44	20°♍14'45	1°12'34
direct	-8704 Aug 03 j 06:50	18°♍52'11	
evening set	-8704 Oct 28 j 05:13	20°♍44'14	
conjunction	-8704 Nov 12 j 16:01	21°♍18'57	1°05'18
minimum elong	-8704 Nov 12 j 16:01	21°♍18'57	1°05'26
max. Earth dist.	-8704 Nov 13 j 15:46	21°♍21'12	31.06478 AU
morning rise	-8704 Nov 28 j 06:45	21°♍54'02	
retrograde	-8703 Feb 27 j 15:57	23°♍52'24	
opposition	-8703 May 19 j 16:26	22°♍27'35	1°06'51
min. Earth dist.	-8703 May 18 j 17:11	22°♍29'11	29.06162 AU
direct	-8703 Aug 05 j 16:37	21°♍05'02	
evening set	-8703 Oct 30 j 15:36	22°♍57'04	
conjunction	-8703 Nov 15 j 03:13	23°♍31'50	0°59'53
minimum elong	-8703 Nov 15 j 03:14	23°♍31'50	1°00'02
max. Earth dist.	-8703 Nov 16 j 04:09	23°♍34'11	31.05680 AU
morning rise	-8703 Nov 30 j 18:31	24°♍06'59	
retrograde	-8702 Mar 02 j 03:37	26°♍05'25	
min. Earth dist.	-8702 May 21 j 04:59	24°♍42'12	29.05291 AU
opposition	-8702 May 22 j 04:49	24°♍40'34	1°01'01
direct	-8702 Aug 08 j 04:17	23°♍18'01	
evening set	-8702 Nov 02 j 02:15	25°♍10'02	
conjunction	-8702 Nov 17 j 14:23	25°♍44'51	0°54'24
minimum elong	-8702 Nov 17 j 14:24	25°♍44'51	0°54'31
max. Earth dist.	-8702 Nov 18 j 14:12	25°♍47'06	31.04755 AU
morning rise	-8702 Dec 03 j 06:34	26°♍20'03	
retrograde	-8701 Mar 04 j 17:23	28°♍18'33	
opposition	-8701 May 24 j 17:21	26°♍53'38	0°55'06
min. Earth dist.	-8701 May 23 j 17:45	26°♍55'15	29.04299 AU
direct	-8701 Aug 10 j 13:26	25°♍31'04	
evening set	-8701 Nov 04 j 12:43	27°♍23'03	
conjunction	-8701 Nov 20 j 01:36	27°♍57'55	0°48'50
minimum elong	-8701 Nov 20 j 01:37	27°♍57'55	0°48'56
max. Earth dist.	-8701 Nov 21 j 02:30	28°♍00'16	31.03701 AU
morning rise	-8701 Dec 05 j 18:19	28°♍33'10	
	-8700 Jan 21 j 10:30	0°♎	
retrograde	-8700 Mar 06 j 04:25	0°♎31'42	
	-8700 Apr 21 j 08:29	30°℞♍	
min. Earth dist.	-8700 May 25 j 06:06	29°♍08'21	29.03188 AU
opposition	-8700 May 26 j 05:44	29°♍06'44	0°49'06
direct	-8700 Aug 12 j 01:06	27°♍44'08	
evening set	-8700 Nov 05 j 23:22	29°♍36'04	
	-8700 Nov 16 j 16:16	0°♎	
conjunction	-8700 Nov 21 j 12:50	0°♎10'59	0°43'11
minimum elong	-8700 Nov 21 j 12:51	0°♎10'59	0°43'15
max. Earth dist.	-8700 Nov 22 j 13:12	0°♎13'17	31.02576 AU
morning rise	-8700 Dec 07 j 06:22	0°♎46'17	
retrograde	-8699 Mar 08 j 18:23	2°♎44'51	
opposition	-8699 May 28 j 18:00	1°♎19'48	0°43'02
min. Earth dist.	-8699 May 27 j 17:48	1°♎21'28	29.02044 AU
	-8699 Aug 01 j 14:46	30°℞♍	
direct	-8699 Aug 14 j 11:13	29°♍57'08	
	-8699 Aug 27 j 07:07	0°♎	
evening set	-8699 Nov 08 j 10:03	1°♎49'04	
conjunction	-8699 Nov 24 j 00:12	2°♎24'02	0°37'29
minimum elong	-8699 Nov 24 j 00:12	2°♎24'02	0°37'32
max. Earth dist.	-8699 Nov 25 j 01:23	2°♎26'24	31.01423 AU
morning rise	-8699 Dec 09 j 18:24	2°♎59'23	
retrograde	-8698 Mar 11 j 06:02	4°♎57'58	
min. Earth dist.	-8698 May 30 j 06:35	3°♎34'28	29.00901 AU
opposition	-8698 May 31 j 06:15	3°♎32'50	0°36'54
direct	-8698 Aug 16 j 21:21	2°♎10'08	
evening set	-8698 Nov 10 j 20:50	4°♎02'02	
conjunction	-8698 Nov 26 j 11:39	4°♎37'02	0°31'44
minimum elong	-8698 Nov 26 j 11:39	4°♎37'02	0°31'44
max. Earth dist.	-8698 Nov 27 j 13:03	4°♎39'26	31.00318 AU
morning rise	-8698 Dec 12 j 06:28	5°♎12'26	
retrograde	-8697 Mar 13 j 20:18	7°♎11'03	
opposition	-8697 Jun 02 j 18:09	5°♎45'51	0°30'43
min. Earth dist.	-8697 Jun 01 j 17:16	5°♎47'34	28.99833 AU
direct	-8697 Aug 19 j 09:03	4°♎23'06	
evening set	-8697 Nov 13 j 07:45	6°♎15'00	
conjunction	-8697 Nov 28 j 23:05	6°♎50'03	0°25'55
minimum elong	-8697 Nov 28 j 23:05	6°♎50'03	0°25'56
max. Earth dist.	-8697 Nov 30 j 00:35	6°♎52'27	30.99292 AU
morning rise	-8697 Dec 14 j 18:38	7°♎25'31	
retrograde	-8696 Mar 15 j 09:53	9°♎24'10	
min. Earth dist.	-8696 Jun 03 j 06:01	8°♎00'34	28.98867 AU
opposition	-8696 Jun 04 j 06:19	7°♎58'53	0°24'29
direct	-8696 Aug 20 j 20:21	6°♎36'08	
evening set	-8696 Nov 14 j 18:30	8°♎28'01	
conjunction	-8696 Nov 30 j 10:37	9°♎03'08	0°20'04
minimum elong	-8696 Nov 30 j 10:37	9°♎03'08	0°20'03
max. Earth dist.	-8696 Dec 01 j 13:12	9°♎05'38	30.98393 AU
morning rise	-8696 Dec 16 j 06:42	9°♎38'38	
retrograde	-8695 Mar 17 j 23:36	11°♎37'19	
opposition	-8695 Jun 06 j 18:18	10°♎12'01	0°18'13
min. Earth dist.	-8695 Jun 05 j 16:40	10°♎13'48	28.98017 AU
direct	-8695 Aug 23 j 08:45	8°♎49'14	
evening set	-8695 Nov 17 j 05:42	10°♎41'09	
conjunction	-8695 Dec 02 j 22:17	11°♎16'18	0°14'12
minimum elong	-8695 Dec 02 j 22:17	11°♎16'19	0°14'10
behind sun begin	-8695 Dec 02 j 19:09	11°♎16'02	
behind sun end	-8695 Dec 03 j 01:25	11°♎16'35	
max. Earth dist.	-8695 Dec 04 j 00:21	11°♎18'46	30.97598 AU

Attention, astronomical year style is used: The year -8695 in astronomical counting style is the year 8696 BCE in historical counting style.

morning rise	-8695 Dec 18 j 19:11	11°♎51'52	
retrograde	-8694 Mar 20 j 12:21	13°♎50'36	
min. Earth dist.	-8694 Jun 08 j 05:21	12°♎27'00	28.97276 AU
opposition	-8694 Jun 09 j 06:16	12°♎25'16	0°11'54
direct	-8694 Aug 25 j 18:31	11°♎02'29	
evening set	-8694 Nov 19 j 16:53	12°♎54'26	
conjunction	-8694 Dec 05 j 10:14	13°♎29'38	0°08'18
minimum elong	-8694 Dec 05 j 10:14	13°♎29'38	0°08'14
behind sun begin	-8694 Dec 05 j 04:29	13°♎29'07	
behind sun end	-8694 Dec 05 j 15:59	13°♎30'09	
max. Earth dist.	-8694 Dec 06 j 13:36	13°♎32'13	30.96898 AU
morning rise	-8694 Dec 21 j 07:35	14°♎05'15	
retrograde	-8693 Mar 23 j 01:15	16°♎04'00	
opposition	-8693 Jun 11 j 18:10	14°♎38'41	0°05'34
min. Earth dist.	-8693 Jun 10 j 16:35	14°♎40'28	28.96599 AU
direct	-8693 Aug 28 j 06:42	13°♎15'55	
evening set	-8693 Nov 22 j 04:15	15°♎07'53	
conjunction	-8693 Dec 07 j 21:59	15°♎43'08	0°02'23
minimum elong	-8693 Dec 07 j 22:00	15°♎43'08	0°02'18
behind sun begin	-8693 Dec 07 j 15:30	15°♎42'33	
behind sun end	-8693 Dec 08 j 04:30	15°♎43'43	
max. Earth dist.	-8693 Dec 09 j 00:25	15°♎45'37	30.96247 AU
morning rise	-8693 Dec 23 j 20:06	16°♎18'48	
retrograde	-8692 Mar 24 j 15:04	18°♎17'37	
desc. node	-8692 Apr 29 j 09:53	17°♎57'45	
min. Earth dist.	-8692 Jun 12 j 04:54	16°♎54'02	28.95963 AU
opposition	-8692 Jun 13 j 06:10	16°♎52'17	-0°00'47
direct	-8692 Aug 29 j 16:14	15°♎29'31	
evening set	-8692 Nov 23 j 15:48	17°♎21'32	
conjunction	-8692 Dec 09 j 10:16	17°♎56'49	-0°03'42
minimum elong	-8692 Dec 09 j 10:15	17°♎56'49	0°03'49
behind sun begin	-8692 Dec 09 j 03:49	17°♎56'15	
behind sun end	-8692 Dec 09 j 16:42	17°♎57'24	
max. Earth dist.	-8692 Dec 10 j 13:35	17°♎59'23	30.95600 AU
morning rise	-8692 Dec 25 j 08:47	18°♎32'32	
retrograde	-8691 Mar 27 j 02:03	20°♎31'23	
opposition	-8691 Jun 15 j 18:02	19°♎06'03	-0°07'09
min. Earth dist.	-8691 Jun 14 j 17:03	19°♎07'48	28.95298 AU
direct	-8691 Sep 01 j 03:35	17°♎43'16	
evening set	-8691 Nov 26 j 03:39	19°♎35'20	
conjunction	-8691 Dec 11 j 22:37	20°♎10'40	-0°09'37
minimum elong	-8691 Dec 11 j 22:37	20°♎10'40	0°09'45
behind sun begin	-8691 Dec 11 j 17:17	20°♎10'11	
behind sun end	-8691 Dec 12 j 03:57	20°♎11'09	
max. Earth dist.	-8691 Dec 13 j 00:54	20°♎13'08	30.94914 AU
morning rise	-8691 Dec 27 j 21:49	20°♎46'25	
retrograde	-8690 Mar 29 j 15:49	22°♎45'18	
min. Earth dist.	-8690 Jun 17 j 04:55	21°♎21'42	28.94571 AU
opposition	-8690 Jun 18 j 05:57	21°♎19'57	-0°13'30
direct	-8690 Sep 03 j 13:24	19°♎57'08	
evening set	-8690 Nov 28 j 15:39	21°♎49'15	
conjunction	-8690 Dec 14 j 11:10	22°♎24'37	-0°15'32
minimum elong	-8690 Dec 14 j 11:10	22°♎24'37	0°15'41
behind sun begin	-8690 Dec 14 j 09:56	22°♎24'31	
behind sun end	-8690 Dec 14 j 12:24	22°♎24'44	
max. Earth dist.	-8690 Dec 15 j 13:34	22°♎27'06	30.94123 AU
morning rise	-8690 Dec 30 j 10:50	23°♎00'24	
retrograde	-8689 Apr 01 j 03:38	24°♎59'18	
opposition	-8689 Jun 20 j 17:49	23°♎33'55	-0°19'49
min. Earth dist.	-8689 Jun 19 j 17:55	23°♎35'35	28.93731 AU
direct	-8689 Sep 05 j 23:22	22°♎11'03	
evening set	-8689 Dec 01 j 03:40	24°♎03'12	

conjunction	-8689 Dec 16 j 23:46	24°♎38'37	-0°21'26
minimum elong	-8689 Dec 16 j 23:46	24°♎38'37	0°21'36
max. Earth dist.	-8689 Dec 18 j 01:40	24°♎41'02	30.93246 AU
morning rise	-8688 Jan 01 j 23:57	25°♎14'25	
retrograde	-8688 Apr 02 j 17:36	27°♎13'19	
min. Earth dist.	-8688 Jun 21 j 05:09	25°♎49'36	28.92807 AU
opposition	-8688 Jun 22 j 05:36	25°♎47'53	-0°26'08
direct	-8688 Sep 07 j 11:23	24°♎24'57	
evening set	-8688 Dec 02 j 15:44	26°♎17'07	
conjunction	-8688 Dec 18 j 12:18	26°♎52'34	-0°27'18
minimum elong	-8688 Dec 18 j 12:18	26°♎52'34	0°27'30
max. Earth dist.	-8688 Dec 19 j 13:36	26°♎54'56	30.92280 AU
morning rise	-8687 Jan 03 j 13:05	27°♎28'25	
retrograde	-8687 Apr 05 j 06:25	29°♎27'17	
opposition	-8687 Jun 24 j 17:26	28°♎01'48	-0°32'23
min. Earth dist.	-8687 Jun 23 j 18:19	28°♎03'25	28.91823 AU
direct	-8687 Sep 09 j 22:39	26°♎38'47	
evening set	-8687 Dec 05 j 03:55	28°♎30'59	
conjunction	-8687 Dec 21 j 01:08	29°♎06'28	-0°33'08
minimum elong	-8687 Dec 21 j 01:08	29°♎06'28	0°33'20
max. Earth dist.	-8687 Dec 22 j 02:47	29°♎08'52	30.91292 AU
morning rise	-8686 Jan 06 j 02:17	29°♎42'20	
	-8686 Jan 14 j 06:47	0°♏	
retrograde	-8686 Apr 07 j 19:56	1°♏41'10	
min. Earth dist.	-8686 Jun 26 j 05:01	0°♏17'18	28.90840 AU
opposition	-8686 Jun 27 j 04:51	0°♏15'38	-0°38'36
	-8686 Jul 06 j 13:23	30°℞♎	
direct	-8686 Sep 12 j 11:21	28°♎52'32	
	-8686 Nov 16 j 00:17	0°♏	
evening set	-8686 Dec 07 j 16:17	0°♏44'46	
conjunction	-8686 Dec 23 j 13:50	1°♏20'17	-0°38'55
minimum elong	-8686 Dec 23 j 13:49	1°♏20'17	0°39'09
max. Earth dist.	-8686 Dec 24 j 14:31	1°♏22'36	30.90327 AU
morning rise	-8685 Jan 08 j 15:34	1°♏56'11	
retrograde	-8685 Apr 10 j 09:13	3°♏55'00	
opposition	-8685 Jun 29 j 16:28	2°♏29'25	-0°44'45
min. Earth dist.	-8685 Jun 28 j 17:39	2°♏31'01	28.89925 AU
direct	-8685 Sep 14 j 21:49	1°♏06'15	
evening set	-8685 Dec 10 j 04:24	2°♏58'31	
conjunction	-8685 Dec 26 j 02:34	3°♏34'04	-0°44'38
minimum elong	-8685 Dec 26 j 02:33	3°♏34'04	0°44'53
max. Earth dist.	-8685 Dec 27 j 04:21	3°♏36'29	30.89454 AU
morning rise	-8684 Jan 11 j 04:33	4°♏10'00	
retrograde	-8684 Apr 11 j 22:32	6°♏08'48	
min. Earth dist.	-8684 Jun 30 j 04:32	4°♏44'49	28.89112 AU
opposition	-8684 Jul 01 j 03:54	4°♏43'11	-0°50'50
direct	-8684 Sep 16 j 10:41	3°♏19'57	
evening set	-8684 Dec 11 j 16:55	5°♏12'18	
conjunction	-8684 Dec 27 j 15:23	5°♏47'52	-0°50'17
minimum elong	-8684 Dec 27 j 15:22	5°♏47'52	0°50'33
max. Earth dist.	-8684 Dec 28 j 15:59	5°♏50'11	30.88710 AU
morning rise	-8683 Jan 12 j 17:56	6°♏23'50	
retrograde	-8683 Apr 14 j 11:59	8°♏22'37	
opposition	-8683 Jul 03 j 15:16	6°♏57'00	-0°56'50
min. Earth dist.	-8683 Jul 02 j 16:18	6°♏58'36	28.88451 AU
direct	-8683 Sep 18 j 20:45	5°♏33'43	
evening set	-8683 Dec 14 j 05:25	7°♏26'09	
conjunction	-8683 Dec 30 j 04:29	8°♏01'45	-0°55'52
minimum elong	-8683 Dec 30 j 04:28	8°♏01'45	0°56'09
max. Earth dist.	-8683 Dec 31 j 05:59	8°♏04'09	30.88107 AU
morning rise	-8682 Jan 15 j 07:17	8°♏37'45	

Attention, astronomical year style is used: The year -8682 in astronomical counting style is the year 8683 BCE in historical counting style.

retrograde	-8682 Apr 16 j 23:17	10°♑36'32	
min. Earth dist.	-8682 Jul 05 j 03:49	9°♑12'32	28.87918 AU
opposition	-8682 Jul 06 j 02:37	9°♑10'55	-1°02'46
direct	-8682 Sep 21 j 08:16	7°♑47'38	
evening set	-8682 Dec 16 j 18:09	9°♑40'09	
conjunction	-8681 Jan 01 j 17:31	10°♑15'47	-1°01'22
minimum elong	-8681 Jan 01 j 17:30	10°♑15'47	1°01'41
max. Earth dist.	-8681 Jan 02 j 18:01	10°♑18'05	30.87643 AU
morning rise	-8681 Jan 17 j 20:46	10°♑51'48	
retrograde	-8681 Apr 19 j 13:01	12°♑50'35	
opposition	-8681 Jul 08 j 13:53	11°♑25'01	-1°08'36
min. Earth dist.	-8681 Jul 07 j 14:53	11°♑26'38	28.87520 AU
direct	-8681 Sep 23 j 17:56	10°♑01'43	
evening set	-8681 Dec 19 j 06:58	11°♑54'21	
conjunction	-8680 Jan 04 j 06:46	12°♑30'01	-1°06'47
minimum elong	-8680 Jan 04 j 06:45	12°♑30'01	1°07'07
max. Earth dist.	-8680 Jan 05 j 07:38	12°♑32'21	30.87284 AU
morning rise	-8680 Jan 20 j 10:16	13°♑06'03	
	-8680 Apr 03 j 20:33	15°♑	
retrograde	-8680 Apr 21 j 00:54	15°♑04'52	
	-8680 May 08 j 09:30	15°℞♑	
min. Earth dist.	-8680 Jul 09 j 03:20	13°♑40'53	28.87208 AU
opposition	-8680 Jul 10 j 01:14	13°♑39'20	-1°14'21
direct	-8680 Sep 25 j 03:16	12°♑16'02	
evening set	-8680 Dec 20 j 19:55	14°♑08'47	
conjunction	-8679 Jan 05 j 20:09	14°♑44'29	-1°12'06
minimum elong	-8679 Jan 05 j 20:08	14°♑44'28	1°12'28
max. Earth dist.	-8679 Jan 06 j 20:25	14°♑46'45	30.87003 AU
	-8679 Jan 12 j 17:47	15°♑	
morning rise	-8679 Jan 22 j 00:00	15°♑20'32	
retrograde	-8679 Apr 23 j 14:29	17°♑19'21	
opposition	-8679 Jul 12 j 12:30	15°♑53'53	-1°19'59
min. Earth dist.	-8679 Jul 11 j 14:17	15°♑55'27	28.86938 AU
	-8679 Aug 16 j 03:01	15°℞♑	
direct	-8679 Sep 27 j 15:03	14°♑30'33	
	-8679 Nov 08 j 07:00	15°♑	
evening set	-8679 Dec 23 j 09:18	16°♑23'27	
conjunction	-8678 Jan 08 j 09:48	16°♑59'10	-1°17'19
minimum elong	-8678 Jan 08 j 09:47	16°♑59'10	1°17'41
max. Earth dist.	-8678 Jan 09 j 09:11	17°♑01'21	30.86713 AU
morning rise	-8678 Jan 24 j 13:58	17°♑35'14	
retrograde	-8678 Apr 26 j 03:01	19°♑34'04	
opposition	-8678 Jul 14 j 23:48	18°♑08'38	-1°25'30
min. Earth dist.	-8678 Jul 14 j 03:17	18°♑10'05	28.86642 AU
direct	-8678 Sep 30 j 01:34	16°♑45'17	
evening set	-8678 Dec 25 j 22:41	18°♑38'17	
conjunction	-8677 Jan 10 j 23:39	19°♑14'03	-1°22'25
minimum elong	-8677 Jan 10 j 23:39	19°♑14'02	1°22'48
max. Earth dist.	-8677 Jan 11 j 22:45	19°♑16'12	30.86385 AU
morning rise	-8677 Jan 27 j 03:58	19°♑50'08	
retrograde	-8677 Apr 28 j 17:00	21°♑48'56	
opposition	-8677 Jul 17 j 11:04	20°♑23'33	-1°30'53
min. Earth dist.	-8677 Jul 16 j 14:19	20°♑25'01	28.86275 AU
direct	-8677 Oct 02 j 13:56	19°♑00'08	
evening set	-8677 Dec 28 j 12:10	20°♑53'15	
conjunction	-8676 Jan 13 j 13:19	21°♑29'02	-1°27'24
minimum elong	-8676 Jan 13 j 13:18	21°♑29'01	1°27'47
max. Earth dist.	-8676 Jan 14 j 10:47	21°♑31'02	30.85964 AU
morning rise	-8676 Jan 29 j 18:00	22°♑05'08	
retrograde	-8676 Apr 30 j 06:47	24°♑03'54	
opposition	-8676 Jul 18 j 22:30	22°♑38'31	-1°36'08
min. Earth dist.	-8676 Jul 18 j 03:22	22°♑39'52	28.85822 AU
direct	-8676 Oct 04 j 01:00	21°♑15'03	
evening set	-8676 Dec 30 j 01:43	23°♑08'15	
conjunction	-8675 Jan 15 j 03:23	23°♑44'03	-1°32'15
minimum elong	-8675 Jan 15 j 03:22	23°♑44'03	1°32'39
max. Earth dist.	-8675 Jan 16 j 01:03	23°♑46'04	30.85464 AU
morning rise	-8675 Jan 31 j 08:09	24°♑20'09	
retrograde	-8675 May 02 j 20:47	26°♑18'51	
opposition	-8675 Jul 21 j 09:35	24°♑53'28	-1°41'14
min. Earth dist.	-8675 Jul 20 j 14:43	24°♑54'48	28.85286 AU
direct	-8675 Oct 06 j 14:57	23°♑29'55	
evening set	-8674 Jan 01 j 15:32	25°♑23'12	
conjunction	-8674 Jan 17 j 17:21	25°♑59'01	-1°36'57
minimum elong	-8674 Jan 17 j 17:20	25°♑59'01	1°37'22
max. Earth dist.	-8674 Jan 18 j 13:03	26°♑00'52	30.84906 AU
morning rise	-8674 Feb 02 j 22:30	26°♑35'08	
retrograde	-8674 May 05 j 09:59	28°♑33'46	
opposition	-8674 Jul 23 j 20:46	27°♑08'21	-1°46'11
min. Earth dist.	-8674 Jul 23 j 02:55	27°♑09'37	28.84731 AU
direct	-8674 Oct 09 j 02:13	25°♑44'42	
evening set	-8673 Jan 04 j 05:09	27°♑38'04	
conjunction	-8673 Jan 20 j 07:22	28°♑13'53	-1°41'30
minimum elong	-8673 Jan 20 j 07:21	28°♑13'53	1°41'57
max. Earth dist.	-8673 Jan 21 j 03:27	28°♑15'46	30.84340 AU
morning rise	-8673 Feb 05 j 12:30	28°♑50'01	
	-8673 Mar 13 j 06:14	0°♐	
retrograde	-8673 May 07 j 22:02	0°♐48'33	
	-8673 Jul 03 j 21:06	30°℞♑	
opposition	-8673 Jul 26 j 07:46	29°♑23'08	-1°50'59
min. Earth dist.	-8673 Jul 25 j 14:32	29°♑24'21	28.84189 AU
direct	-8673 Oct 11 j 14:45	27°♑59'23	
evening set	-8672 Jan 06 j 18:57	29°♑52'50	
	-8672 Jan 10 j 01:16	0°♐	
conjunction	-8672 Jan 22 j 21:19	0°♐28'40	-1°45'54
minimum elong	-8672 Jan 22 j 21:18	0°♐28'40	1°46'21
max. Earth dist.	-8672 Jan 23 j 15:54	0°♐30'24	30.83837 AU
morning rise	-8672 Feb 08 j 02:44	1°♐04'47	
retrograde	-8672 May 09 j 12:09	3°♐03'14	
opposition	-8672 Jul 27 j 18:41	1°♐37'49	-1°55'36
min. Earth dist.	-8672 Jul 27 j 01:34	1°♐39'01	28.83745 AU
direct	-8672 Oct 13 j 01:47	0°♐13'58	
evening set	-8671 Jan 08 j 08:43	2°♐07'31	
conjunction	-8671 Jan 24 j 11:25	2°♐43'22	-1°50'08
minimum elong	-8671 Jan 24 j 11:24	2°♐43'22	1°50'36
max. Earth dist.	-8671 Jan 25 j 06:11	2°♐45'07	30.83431 AU
morning rise	-8671 Feb 09 j 16:54	3°♐19'29	
retrograde	-8671 May 11 j 23:07	5°♐17'52	
opposition	-8671 Jul 30 j 05:42	3°♐52'26	-2°00'02
min. Earth dist.	-8671 Jul 29 j 13:47	3°♐53'34	28.83409 AU
direct	-8671 Oct 15 j 12:27	2°♐28'32	
evening set	-8670 Jan 10 j 22:39	4°♐22'10	
conjunction	-8670 Jan 27 j 01:36	4°♐58'01	-1°54'13
minimum elong	-8670 Jan 27 j 01:35	4°♐58'01	1°54'41
max. Earth dist.	-8670 Jan 27 j 19:29	4°♐59'42	30.83163 AU
morning rise	-8670 Feb 12 j 07:13	5°♐34'09	
retrograde	-8670 May 14 j 11:42	7°♐32'26	
opposition	-8670 Aug 01 j 16:27	6°♐07'03	-2°04'18
min. Earth dist.	-8670 Aug 01 j 00:09	6°♐08'13	28.83217 AU
direct	-8670 Oct 18 j 00:16	4°♐43'04	
evening set	-8669 Jan 13 j 12:41	6°♐36'51	

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

conjunction	-8669 Jan 29 j 15:46	7°♐12'43	-1°58'07
minimum elong	-8669 Jan 29 j 15:46	7°♐12'42	1°58'36
max. Earth dist.	-8669 Jan 30 j 09:03	7°♐14'19	30.83027 AU
morning rise	-8669 Feb 14 j 21:30	7°♐48'50	
retrograde	-8669 May 16 j 23:25	9°♐47'04	
opposition	-8669 Aug 04 j 03:27	8°♐21'44	-2°08'23
min. Earth dist.	-8669 Aug 03 j 12:35	8°♐22'47	28.83164 AU
direct	-8669 Oct 20 j 10:16	6°♐57'43	
evening set	-8668 Jan 16 j 02:30	8°♐51'36	
conjunction	-8668 Feb 01 j 05:56	9°♐27'29	-2°01'50
minimum elong	-8668 Feb 01 j 05:55	9°♐27'29	2°02'20
max. Earth dist.	-8668 Feb 01 j 23:02	9°♐29'05	30.83038 AU
morning rise	-8668 Feb 17 j 11:41	10°♐03'36	
retrograde	-8668 May 18 j 12:41	12°♐01'47	
opposition	-8668 Aug 05 j 14:15	10°♐36'31	-2°12'15
min. Earth dist.	-8668 Aug 04 j 23:01	10°♐37'36	28.83226 AU
direct	-8668 Oct 21 j 22:18	9°♐12'28	
evening set	-8667 Jan 17 j 16:49	11°♐06'31	
conjunction	-8667 Feb 02 j 20:18	11°♐42'24	-2°05'22
minimum elong	-8667 Feb 02 j 20:17	11°♐42'24	2°05'53
max. Earth dist.	-8667 Feb 03 j 11:55	11°♐43'51	30.83134 AU
morning rise	-8667 Feb 19 j 02:14	12°♐18'31	
retrograde	-8667 May 21 j 01:41	14°♐16'39	
min. Earth dist.	-8667 Aug 07 j 11:32	12°♐52'26	28.83363 AU
opposition	-8667 Aug 08 j 01:07	12°♐51'28	-2°15'56
direct	-8667 Oct 24 j 09:10	11°♐27'23	
evening set	-8666 Jan 20 j 07:10	13°♐21'36	
conjunction	-8666 Feb 05 j 11:00	13°♐57'30	-2°08'43
minimum elong	-8666 Feb 05 j 10:59	13°♐57'30	2°09'14
max. Earth dist.	-8666 Feb 06 j 02:40	13°♐58'58	30.83277 AU
morning rise	-8666 Feb 21 j 16:48	14°♐33'37	
retrograde	-8666 May 23 j 15:15	16°♐31'42	
opposition	-8666 Aug 10 j 11:56	15°♐06'36	-2°19'24
min. Earth dist.	-8666 Aug 09 j 22:47	15°♐07'32	28.83501 AU
direct	-8666 Oct 26 j 22:42	13°♐42'30	
evening set	-8665 Jan 22 j 21:41	15°♐36'51	
conjunction	-8665 Feb 08 j 01:28	16°♐12'46	-2°11'52
minimum elong	-8665 Feb 08 j 01:27	16°♐12'46	2°12'23
max. Earth dist.	-8665 Feb 08 j 14:57	16°♐14'01	30.83389 AU
morning rise	-8665 Feb 24 j 07:26	16°♐48'53	
retrograde	-8665 May 26 j 04:59	18°♐46'55	
opposition	-8665 Aug 12 j 22:52	17°♐21'53	-2°22'40
min. Earth dist.	-8665 Aug 12 j 10:59	17°♐22'43	28.83597 AU
direct	-8665 Oct 29 j 09:56	15°♐57'44	
evening set	-8664 Jan 25 j 12:14	17°♐52'15	
conjunction	-8664 Feb 10 j 16:20	18°♐28'10	-2°14'49
minimum elong	-8664 Feb 10 j 16:19	18°♐28'10	2°15'21
max. Earth dist.	-8664 Feb 11 j 05:39	18°♐29'25	30.83431 AU
morning rise	-8664 Feb 26 j 22:08	19°♐04'17	
retrograde	-8664 May 27 j 18:03	21°♐02'13	
opposition	-8664 Aug 14 j 09:43	19°♐37'16	-2°25'42
min. Earth dist.	-8664 Aug 13 j 23:00	19°♐38'01	28.83594 AU
direct	-8664 Oct 30 j 22:53	18°♐13'04	
evening set	-8663 Jan 27 j 02:58	20°♐07'42	
conjunction	-8663 Feb 12 j 07:07	20°♐43'38	-2°17'33
minimum elong	-8663 Feb 12 j 07:06	20°♐43'38	2°18'05
max. Earth dist.	-8663 Feb 12 j 18:03	20°♐44'39	30.83382 AU
morning rise	-8663 Feb 28 j 13:06	21°♐19'44	
retrograde	-8663 May 30 j 08:45	23°♐17'35	
opposition	-8663 Aug 16 j 20:35	21°♐52'39	-2°28'31
min. Earth dist.	-8663 Aug 16 j 10:32	21°♐53'22	28.83502 AU
direct	-8663 Nov 02 j 10:56	20°♐28'23	
evening set	-8662 Jan 29 j 17:41	22°♐23'08	
conjunction	-8662 Feb 14 j 22:03	22°♐59'04	-2°20'05
minimum elong	-8662 Feb 14 j 22:02	22°♐59'04	2°20'38
max. Earth dist.	-8662 Feb 15 j 08:33	23°♐00'03	30.83233 AU
morning rise	-8662 Mar 03 j 03:53	23°♐35'10	
retrograde	-8662 Jun 01 j 19:41	25°♐32'54	
opposition	-8662 Aug 19 j 07:22	24°♐08'01	-2°31'07
min. Earth dist.	-8662 Aug 18 j 23:08	24°♐08'36	28.83327 AU
direct	-8662 Nov 04 j 22:32	22°♐43'39	
evening set	-8661 Feb 01 j 08:21	24°♐38'30	
conjunction	-8661 Feb 17 j 12:49	25°♐14'26	-2°22'24
minimum elong	-8661 Feb 17 j 12:49	25°♐14'26	2°22'57
max. Earth dist.	-8661 Feb 17 j 21:45	25°♐15'16	30.83049 AU
morning rise	-8661 Mar 05 j 18:42	25°♐50'32	
retrograde	-8661 Jun 04 j 08:25	27°♐48'07	
opposition	-8661 Aug 21 j 18:01	26°♐23'16	-2°33'29
min. Earth dist.	-8661 Aug 21 j 09:49	26°♐23'51	28.83144 AU
direct	-8661 Nov 07 j 10:56	24°♐58'48	
evening set	-8660 Feb 03 j 22:52	26°♐53'45	
conjunction	-8660 Feb 20 j 03:27	27°♐29'42	-2°24'30
minimum elong	-8660 Feb 20 j 03:27	27°♐29'42	2°25'04
max. Earth dist.	-8660 Feb 20 j 11:34	27°♐30'27	30.82865 AU
morning rise	-8660 Mar 07 j 09:18	28°♐05'46	
	-8660 May 22 j 23:18	0°♑	
retrograde	-8660 Jun 05 j 19:49	0°♑03'15	
	-8660 Jun 19 j 17:24	30°℞♐	
opposition	-8660 Aug 23 j 04:46	28°♐38'24	-2°35'36
min. Earth dist.	-8660 Aug 22 j 22:22	28°♐38'51	28.82993 AU
direct	-8660 Nov 08 j 21:10	27°♐13'50	
evening set	-8659 Feb 05 j 13:29	29°♐08'53	
conjunction	-8659 Feb 21 j 18:16	29°♐44'50	-2°26'23
minimum elong	-8659 Feb 21 j 18:16	29°♐44'50	2°26'56
max. Earth dist.	-8659 Feb 22 j 01:41	29°♐45'32	30.82753 AU
	-8659 Feb 28 j 12:55	0°♑	
morning rise	-8659 Mar 10 j 00:03	0°♑20'54	
retrograde	-8659 Jun 08 j 07:46	2°♑18'14	
opposition	-8659 Aug 25 j 15:11	0°♑53'26	-2°37'30
min. Earth dist.	-8659 Aug 25 j 08:35	0°♑53'54	28.82926 AU
	-8659 Sep 28 j 09:35	30°℞♐	
direct	-8659 Nov 11 j 09:24	29°♐28'46	
	-8659 Dec 24 j 19:54	0°♑	
evening set	-8658 Feb 08 j 04:13	1°♑23'56	
conjunction	-8658 Feb 24 j 08:58	1°♑59'52	-2°28'03
minimum elong	-8658 Feb 24 j 08:58	1°♑59'52	2°28'36
max. Earth dist.	-8658 Feb 24 j 14:56	2°♑00'26	30.82735 AU
morning rise	-8658 Mar 12 j 14:46	2°♑35'55	
retrograde	-8658 Jun 10 j 19:03	4°♑33'08	
opposition	-8658 Aug 28 j 01:51	3°♑08'22	-2°39'09
min. Earth dist.	-8658 Aug 27 j 20:44	3°♑08'44	28.82988 AU
direct	-8658 Nov 13 j 20:48	1°♑43'38	
evening set	-8657 Feb 10 j 18:37	3°♑38'54	
conjunction	-8657 Feb 26 j 23:36	4°♑14'51	-2°29'28
minimum elong	-8657 Feb 26 j 23:36	4°♑14'51	2°30'01
max. Earth dist.	-8657 Feb 27 j 05:46	4°♑15'25	30.82863 AU
morning rise	-8657 Mar 15 j 05:11	4°♑50'52	
retrograde	-8657 Jun 13 j 07:04	6°♑47'59	
opposition	-8657 Aug 30 j 12:23	5°♑23'16	-2°40'33
min. Earth dist.	-8657 Aug 30 j 07:19	5°♑23'37	28.83187 AU
direct	-8657 Nov 16 j 10:15	3°♑58'28	
evening set	-8656 Feb 13 j 09:18	5°♑53'52	

Attention, astronomical year style is used: The year -8656 in astronomical counting style is the year 8657 BCE in historical counting style.

conjunction	-8656 Feb 29 j 14:13	6°♓29'48	-2°30'40
minimum elong	-8656 Feb 29 j 14:12	6°♓29'48	2°31'14
max. Earth dist.	-8656 Feb 29 j 18:33	6°♓30'13	30.83138 AU
morning rise	-8656 Mar 16 j 19:53	7°♓05'50	
retrograde	-8656 Jun 14 j 20:08	9°♓02'49	
opposition	-8656 Aug 31 j 22:51	7°♓38'10	-2°41'42
min. Earth dist.	-8656 Aug 31 j 18:46	7°♓38'28	28.83543 AU
direct	-8656 Nov 17 j 21:05	6°♓13'20	
evening set	-8655 Feb 14 j 23:54	8°♓08'51	
conjunction	-8655 Mar 03 j 05:05	8°♓44'48	-2°31'38
minimum elong	-8655 Mar 03 j 05:05	8°♓44'48	2°32'12
max. Earth dist.	-8655 Mar 03 j 09:40	8°♓45'14	30.83550 AU
morning rise	-8655 Mar 19 j 10:32	9°♓20'48	
retrograde	-8655 Jun 17 j 08:52	11°♓17'41	
opposition	-8655 Sep 03 j 09:24	9°♓53'08	-2°42'37
min. Earth dist.	-8655 Sep 03 j 06:12	9°♓53'21	28.83999 AU
direct	-8655 Nov 20 j 10:40	8°♓28'16	
evening set	-8654 Feb 17 j 14:44	10°♓23'55	
conjunction	-8654 Mar 05 j 19:49	10°♓59'52	-2°32'22
minimum elong	-8654 Mar 05 j 19:48	10°♓59'52	2°32'57
max. Earth dist.	-8654 Mar 05 j 22:16	11°♓00'06	30.84049 AU
morning rise	-8654 Mar 22 j 01:18	11°♓35'52	
retrograde	-8654 Jun 19 j 23:00	13°♓32'38	
opposition	-8654 Sep 05 j 19:52	12°♓08'10	-2°43'16
min. Earth dist.	-8654 Sep 05 j 17:09	12°♓08'22	28.84527 AU
direct	-8654 Nov 22 j 23:18	10°♓43'17	
evening set	-8653 Feb 20 j 05:28	12°♓39'04	
conjunction	-8653 Mar 08 j 10:43	13°♓15'01	-2°32'52
minimum elong	-8653 Mar 08 j 10:43	13°♓15'01	2°33'26
max. Earth dist.	-8653 Mar 08 j 12:59	13°♓15'14	30.84576 AU
morning rise	-8653 Mar 24 j 15:57	13°♓51'00	
retrograde	-8653 Jun 22 j 10:23	15°♓47'39	
opposition	-8653 Sep 08 j 06:29	14°♓23'17	-2°43'41
min. Earth dist.	-8653 Sep 08 j 05:34	14°♓23'21	28.85050 AU
direct	-8653 Nov 25 j 11:19	12°♓58'22	
evening set	-8652 Feb 22 j 20:14	14°♓54'16	
conjunction	-8652 Mar 10 j 01:29	15°♓30'14	-2°33'08
minimum elong	-8652 Mar 10 j 01:29	15°♓30'14	2°33'42
max. Earth dist.	-8652 Mar 10 j 01:52	15°♓30'16	30.85084 AU
morning rise	-8652 Mar 26 j 06:46	16°♓06'12	
retrograde	-8652 Jun 24 j 00:08	18°♓02'43	
opposition	-8652 Sep 09 j 17:03	16°♓38'26	-2°43'50
min. Earth dist.	-8652 Sep 09 j 16:25	16°♓38'29	28.85521 AU
direct	-8652 Nov 26 j 23:59	15°♓13'28	
evening set	-8651 Feb 24 j 11:09	17°♓09'28	
conjunction	-8651 Mar 12 j 16:29	17°♓45'26	-2°33'10
minimum elong	-8651 Mar 12 j 16:29	17°♓45'26	2°33'42
max. Earth dist.	-8651 Mar 12 j 15:45	17°♓45'22	30.85502 AU
morning rise	-8651 Mar 28 j 21:34	18°♓21'23	
retrograde	-8651 Jun 26 j 11:45	20°♓17'46	
opposition	-8651 Sep 12 j 03:40	18°♓53'33	-2°43'45
min. Earth dist.	-8651 Sep 12 j 05:11	18°♓53'26	28.85900 AU
direct	-8651 Nov 29 j 10:51	17°♓28'31	
evening set	-8650 Feb 27 j 02:00	19°♓24'36	
conjunction	-8650 Mar 15 j 07:25	20°♓00'34	-2°32'58
minimum elong	-8650 Mar 15 j 07:25	20°♓00'34	2°33'32
max. Earth dist.	-8650 Mar 15 j 05:22	20°♓00'22	30.85847 AU
morning rise	-8650 Mar 31 j 12:23	20°♓36'30	
retrograde	-8650 Jun 28 j 23:26	22°♓32'43	
opposition	-8650 Sep 14 j 14:13	21°♓08'33	-2°43'24
min. Earth dist.	-8650 Sep 14 j 15:52	21°♓08'26	28.86200 AU
direct	-8650 Dec 01 j 23:49	19°♓43'27	
evening set	-8649 Mar 01 j 16:41	21°♓39'36	
conjunction	-8649 Mar 17 j 22:03	22°♓15'33	-2°32'33
minimum elong	-8649 Mar 17 j 22:03	22°♓15'33	2°33'05
max. Earth dist.	-8649 Mar 17 j 18:19	22°♓15'13	30.86118 AU
morning rise	-8649 Apr 03 j 02:56	22°♓51'29	
retrograde	-8649 Jul 01 j 10:02	24°♓47'32	
opposition	-8649 Sep 17 j 00:49	23°♓23'25	-2°42'49
min. Earth dist.	-8649 Sep 17 j 04:16	23°♓23'10	28.86461 AU
direct	-8649 Dec 04 j 11:10	21°♓58'13	
evening set	-8648 Mar 03 j 07:18	23°♓54'26	
conjunction	-8648 Mar 19 j 12:50	24°♓30'23	-2°31'53
minimum elong	-8648 Mar 19 j 12:51	24°♓30'23	2°32'26
max. Earth dist.	-8648 Mar 19 j 08:47	24°♓30'01	30.86378 AU
morning rise	-8648 Apr 04 j 17:31	25°♓06'17	
retrograde	-8648 Jul 02 j 21:11	27°♓02'10	
opposition	-8648 Sep 18 j 11:07	25°♓38'05	-2°42'00
min. Earth dist.	-8648 Sep 18 j 15:03	25°♓37'49	28.86716 AU
direct	-8648 Dec 06 j 00:22	24°♓12'48	
evening set	-8647 Mar 05 j 22:04	26°♓09'06	
conjunction	-8647 Mar 22 j 03:29	26°♓45'03	-2°31'00
minimum elong	-8647 Mar 22 j 03:29	26°♓45'03	2°31'31
max. Earth dist.	-8647 Mar 21 j 21:26	26°♓44'29	30.86657 AU
morning rise	-8647 Apr 07 j 08:10	27°♓20'56	
retrograde	-8647 Jul 05 j 09:10	29°♓16'39	
opposition	-8647 Sep 20 j 21:34	27°♓52'36	-2°40'56
min. Earth dist.	-8647 Sep 21 j 02:34	27°♓52'15	28.87034 AU
direct	-8647 Dec 08 j 11:32	26°♓27'14	
evening set	-8646 Mar 08 j 12:29	28°♓23'36	
conjunction	-8646 Mar 24 j 18:04	28°♓59'33	-2°29'53
minimum elong	-8646 Mar 24 j 18:04	28°♓59'33	2°30'25
max. Earth dist.	-8646 Mar 24 j 12:18	28°♓59'00	30.87013 AU
morning rise	-8646 Apr 09 j 22:25	29°♓35'24	
	-8646 Apr 21 j 12:39	0°♒	
retrograde	-8646 Jul 07 j 20:28	1°♒30'58	
opposition	-8646 Sep 23 j 07:59	0°♒06'58	-2°39'37
min. Earth dist.	-8646 Sep 23 j 13:46	0°♒06'33	28.87438 AU
	-8646 Sep 27 j 09:50	30°℞♓	
direct	-8646 Dec 11 j 01:31	28°♓41'33	
	-8645 Feb 20 j 20:22	0°♒	
evening set	-8645 Mar 11 j 03:00	0°♒37'59	
conjunction	-8645 Mar 27 j 08:25	1°♒13'55	-2°28'33
minimum elong	-8645 Mar 27 j 08:25	1°♒13'55	2°29'03
max. Earth dist.	-8645 Mar 27 j 00:44	1°♒13'12	30.87492 AU
morning rise	-8645 Apr 12 j 12:48	1°♒49'46	
retrograde	-8645 Jul 10 j 09:33	3°♒45'11	
opposition	-8645 Sep 25 j 18:18	2°♒21'14	-2°38'04
min. Earth dist.	-8645 Sep 26 j 00:11	2°♒20'49	28.87994 AU
direct	-8645 Dec 13 j 14:21	0°♒55'46	
evening set	-8644 Mar 12 j 17:14	2°♒52'18	
conjunction	-8644 Mar 28 j 22:50	3°♒28'14	-2°26'59
minimum elong	-8644 Mar 28 j 22:50	3°♒28'14	2°27'29
max. Earth dist.	-8644 Mar 28 j 15:24	3°♒27'33	30.88119 AU
morning rise	-8644 Apr 14 j 02:55	4°♒04'04	
retrograde	-8644 Jul 11 j 20:29	5°♒59'20	
opposition	-8644 Sep 27 j 04:46	4°♒35'29	-2°36'16
min. Earth dist.	-8644 Sep 27 j 12:03	4°♒34'58	28.88688 AU
direct	-8644 Dec 15 j 02:43	3°♒10'00	
evening set	-8643 Mar 15 j 07:42	5°♒06'37	
conjunction	-8643 Mar 31 j 13:11	5°♒42'33	-2°25'11

Attention, astronomical year style is used: The year -8643 in astronomical counting style is the year 8644 BCE in historical counting style.

minimum elong	-8643 Mar 31 j 13:11	5°♒42'33	2°25'40
max. Earth dist.	-8643 Mar 31 j 04:13	5°♒41'43	30.88898 AU
morning rise	-8643 Apr 16 j 17:14	6°♒18'22	
retrograde	-8643 Jul 14 j 10:05	8°♒13'30	
opposition	-8643 Sep 29 j 15:02	6°♒49'46	-2°34'14
min. Earth dist.	-8643 Sep 29 j 22:07	6°♒49'15	28.89523 AU
direct	-8643 Dec 17 j 15:37	5°♒24'17	
evening set	-8642 Mar 17 j 22:05	7°♒20'59	
conjunction	-8642 Apr 03 j 03:36	7°♒56'56	-2°23'11
minimum elong	-8642 Apr 03 j 03:36	7°♒56'56	2°23'40
max. Earth dist.	-8642 Apr 02 j 18:21	7°♒56'04	30.89788 AU
morning rise	-8642 Apr 19 j 07:22	8°♒32'44	
retrograde	-8642 Jul 16 j 21:46	10°♒27'44	
opposition	-8642 Oct 02 j 01:36	9°♒04'07	-2°31'58
min. Earth dist.	-8642 Oct 02 j 10:24	9°♒03'30	28.90456 AU
direct	-8642 Dec 20 j 02:35	7°♒38'40	
evening set	-8641 Mar 20 j 12:17	9°♒35'27	
conjunction	-8641 Apr 05 j 17:46	10°♒11'24	-2°20'57
minimum elong	-8641 Apr 05 j 17:46	10°♒11'24	2°21'24
max. Earth dist.	-8641 Apr 05 j 07:32	10°♒10'26	30.90759 AU
morning rise	-8641 Apr 21 j 21:26	10°♒47'11	
retrograde	-8641 Jul 19 j 09:15	12°♒42'04	
opposition	-8641 Oct 04 j 12:01	11°♒18'35	-2°29'27
min. Earth dist.	-8641 Oct 04 j 20:46	11°♒17'58	28.91423 AU
direct	-8641 Dec 22 j 15:27	9°♒53'08	
evening set	-8640 Mar 22 j 02:44	11°♒50'01	
conjunction	-8640 Apr 07 j 08:07	12°♒25'57	-2°18'30
minimum elong	-8640 Apr 07 j 08:08	12°♒25'57	2°18'58
max. Earth dist.	-8640 Apr 06 j 20:27	12°♒24'52	30.91718 AU
morning rise	-8640 Apr 23 j 11:36	13°♒01'44	
retrograde	-8640 Jul 20 j 20:00	14°♒56'30	
opposition	-8640 Oct 05 j 22:30	13°♒33'07	-2°26'44
min. Earth dist.	-8640 Oct 06 j 09:05	13°♒32'22	28.92365 AU
direct	-8640 Dec 24 j 02:09	12°♒07'39	
evening set	-8639 Mar 24 j 17:08	14°♒04'37	
conjunction	-8639 Apr 09 j 22:34	14°♒40'33	-2°15'51
minimum elong	-8639 Apr 09 j 22:35	14°♒40'33	2°16'17
max. Earth dist.	-8639 Apr 09 j 10:19	14°♒39'24	30.92630 AU
	-8639 Apr 18 j 15:55	15°♒	
morning rise	-8639 Apr 26 j 01:47	15°♒16'18	
retrograde	-8639 Jul 23 j 07:12	17°♒10'56	
opposition	-8639 Oct 08 j 09:07	15°♒47'39	-2°23'47
min. Earth dist.	-8639 Oct 08 j 20:17	15°♒46'51	28.93217 AU
	-8639 Nov 07 j 02:10	15°℞♒	
direct	-8639 Dec 26 j 14:34	14°♒22'10	
	-8638 Feb 13 j 08:00	15°♒	
evening set	-8638 Mar 27 j 07:31	16°♒19'11	
conjunction	-8638 Apr 12 j 12:43	16°♒55'07	-2°12'59
minimum elong	-8638 Apr 12 j 12:44	16°♒55'07	2°13'26
max. Earth dist.	-8638 Apr 11 j 22:24	16°♒53'47	30.93438 AU
morning rise	-8638 Apr 28 j 15:49	17°♒30'51	
retrograde	-8638 Jul 25 j 18:16	19°♒25'20	
opposition	-8638 Oct 10 j 19:45	18°♒02'07	-2°20'37
min. Earth dist.	-8638 Oct 11 j 08:07	18°♒01'15	28.93983 AU
direct	-8638 Dec 29 j 01:42	16°♒36'36	
evening set	-8637 Mar 29 j 21:41	18°♒33'39	
conjunction	-8637 Apr 15 j 02:59	19°♒09'34	-2°09'56
minimum elong	-8637 Apr 15 j 03:00	19°♒09'34	2°10'21
max. Earth dist.	-8637 Apr 14 j 12:37	19°♒08'14	30.94163 AU
morning rise	-8637 May 01 j 05:44	19°♒45'17	
retrograde	-8637 Jul 28 j 04:25	21°♒39'37	
opposition	-8637 Oct 13 j 06:18	20°♒16'26	-2°17'15
min. Earth dist.	-8637 Oct 13 j 19:48	20°♒15'29	28.94656 AU
direct	-8637 Dec 31 j 15:42	18°♒50'53	
evening set	-8636 Mar 31 j 11:51	20°♒47'57	
conjunction	-8636 Apr 16 j 16:57	21°♒23'51	-2°06'42
minimum elong	-8636 Apr 16 j 16:58	21°♒23'51	2°07'06
max. Earth dist.	-8636 Apr 16 j 00:21	21°♒22'18	30.94818 AU
morning rise	-8636 May 02 j 19:40	21°♒59'33	
retrograde	-8636 Jul 29 j 16:38	23°♒53'42	
opposition	-8636 Oct 14 j 16:47	22°♒30'34	-2°13'41
min. Earth dist.	-8636 Oct 15 j 06:40	22°♒29'35	28.95283 AU
direct	-8635 Jan 02 j 04:34	21°♒04'56	
evening set	-8635 Apr 03 j 01:50	23°♒02'02	
conjunction	-8635 Apr 19 j 06:58	23°♒37'55	-2°03'16
minimum elong	-8635 Apr 19 j 06:59	23°♒37'55	2°03'38
max. Earth dist.	-8635 Apr 18 j 14:29	23°♒36'23	30.95432 AU
morning rise	-8635 May 05 j 09:17	24°♒13'35	
retrograde	-8635 Aug 01 j 02:53	26°♒07'34	
opposition	-8635 Oct 17 j 03:22	24°♒44'28	-2°09'55
min. Earth dist.	-8635 Oct 17 j 18:50	24°♒43'22	28.95889 AU
direct	-8634 Jan 04 j 17:23	23°♒18'47	
evening set	-8634 Apr 05 j 15:48	25°♒15'53	
conjunction	-8634 Apr 21 j 20:40	25°♒51'45	-1°59'39
minimum elong	-8634 Apr 21 j 20:41	25°♒51'45	2°00'02
max. Earth dist.	-8634 Apr 21 j 02:37	25°♒50'04	30.96067 AU
morning rise	-8634 May 07 j 22:54	26°♒27'23	
retrograde	-8634 Aug 03 j 15:49	28°♒21'12	
opposition	-8634 Oct 19 j 13:52	26°♒58'08	-2°05'58
min. Earth dist.	-8634 Oct 20 j 05:01	26°♒57'04	28.96543 AU
direct	-8633 Jan 07 j 07:34	25°♒32'24	
evening set	-8633 Apr 08 j 05:21	27°♒29'30	
conjunction	-8633 Apr 24 j 10:12	28°♒05'21	-1°55'52
minimum elong	-8633 Apr 24 j 10:13	28°♒05'21	1°56'13
max. Earth dist.	-8633 Apr 23 j 16:12	28°♒03'41	30.96757 AU
morning rise	-8633 May 10 j 12:03	28°♒40'58	
	-8633 Jun 21 j 13:30	0°♓	
retrograde	-8633 Aug 06 j 02:18	0°♓34'38	
	-8633 Sep 21 j 12:48	30°℞♒	
opposition	-8633 Oct 22 j 00:30	29°♒11'35	-2°01'50
min. Earth dist.	-8633 Oct 22 j 17:08	29°♒10'25	28.97278 AU
direct	-8632 Jan 09 j 20:01	27°♒45'50	
evening set	-8632 Apr 09 j 19:03	29°♒42'56	
	-8632 Apr 17 j 13:37	0°♓	
conjunction	-8632 Apr 25 j 23:42	0°♓18'46	-1°51'55
minimum elong	-8632 Apr 25 j 23:43	0°♓18'47	1°52'15
max. Earth dist.	-8632 Apr 25 j 04:57	0°♓17'02	30.97557 AU
morning rise	-8632 May 12 j 01:23	0°♓54'22	
retrograde	-8632 Aug 07 j 13:28	2°♓47'52	
opposition	-8632 Oct 23 j 10:53	1°♓24'54	-1°57'31
min. Earth dist.	-8632 Oct 24 j 03:02	1°♓23'46	28.98122 AU
	-8631 Jan 04 j 00:46	30°℞♒	
direct	-8631 Jan 11 j 09:32	29°♒59'07	
	-8631 Jan 18 j 15:01	0°♓	
evening set	-8631 Apr 12 j 08:44	1°♓56'15	
conjunction	-8631 Apr 28 j 13:11	2°♓32'05	-1°47'48
minimum elong	-8631 Apr 28 j 13:12	2°♓32'05	1°48'06
max. Earth dist.	-8631 Apr 27 j 17:43	2°♓30'16	30.98467 AU
morning rise	-8631 May 14 j 14:33	3°♓07'39	
retrograde	-8631 Aug 10 j 00:10	5°♓01'02	
opposition	-8631 Oct 25 j 21:34	3°♓38'08	-1°53'01
min. Earth dist.	-8631 Oct 26 j 14:52	3°♓36'55	28.99093 AU

Attention, astronomical year style is used: The year -8630 in astronomical counting style is the year 8631 BCE in historical counting style.

direct	-8630 Jan 13 j 20:28	2°♓12'22	
evening set	-8630 Apr 14 j 22:08	4°♓09'31	
max. Earth dist.	-8630 Apr 30 j 07:06	4°♓43'32	30.99501 AU
conjunction	-8630 May 01 j 02:28	4°♓45'20	-1°43'31
minimum elong	-8630 May 01 j 02:29	4°♓45'20	1°43'49
morning rise	-8630 May 17 j 03:29	5°♓20'53	
retrograde	-8630 Aug 12 j 10:42	7°♓14'09	
opposition	-8630 Oct 28 j 08:11	5°♓51'22	-1°48'21
min. Earth dist.	-8630 Oct 29 j 01:31	5°♓50'08	29.00152 AU
direct	-8629 Jan 16 j 08:50	4°♓25'38	
evening set	-8629 Apr 17 j 11:41	6°♓22'49	
conjunction	-8629 May 03 j 15:42	6°♓58'37	-1°39'04
minimum elong	-8629 May 03 j 15:42	6°♓58'37	1°39'21
max. Earth dist.	-8629 May 02 j 18:59	6°♓56'42	31.00603 AU
morning rise	-8629 May 19 j 16:30	7°♓34'09	
retrograde	-8629 Aug 14 j 21:22	9°♓27'20	
opposition	-8629 Oct 30 j 18:43	8°♓04'38	-1°43'32
min. Earth dist.	-8629 Oct 31 j 12:51	8°♓03'22	29.01274 AU
direct	-8628 Jan 18 j 19:30	6°♓38'56	
evening set	-8628 Apr 19 j 01:04	8°♓36'10	
max. Earth dist.	-8628 May 04 j 08:41	9°♓10'04	31.01725 AU
conjunction	-8628 May 05 j 05:02	9°♓11'58	-1°34'29
minimum elong	-8628 May 05 j 05:03	9°♓11'58	1°34'45
morning rise	-8628 May 21 j 05:25	9°♓47'29	
retrograde	-8628 Aug 16 j 07:07	11°♓40'34	
opposition	-8628 Nov 01 j 05:30	10°♓17'59	-1°38'33
min. Earth dist.	-8628 Nov 02 j 00:35	10°♓16'38	29.02361 AU
direct	-8627 Jan 20 j 08:27	8°♓52'19	
evening set	-8627 Apr 21 j 14:39	10°♓49'35	
conjunction	-8627 May 07 j 18:10	11°♓25'22	-1°29'45
minimum elong	-8627 May 07 j 18:10	11°♓25'22	1°29'59
max. Earth dist.	-8627 May 06 j 19:52	11°♓23'18	31.02788 AU
morning rise	-8627 May 23 j 18:20	12°♓00'52	
retrograde	-8627 Aug 18 j 19:10	13°♓53'52	
opposition	-8627 Nov 03 j 16:16	12°♓31'21	-1°33'25
min. Earth dist.	-8627 Nov 04 j 11:32	12°♓30'00	29.03381 AU
direct	-8626 Jan 22 j 20:11	11°♓05'43	
evening set	-8626 Apr 24 j 04:00	13°♓03'01	
max. Earth dist.	-8626 May 09 j 09:18	13°♓36'44	31.03755 AU
conjunction	-8626 May 10 j 07:24	13°♓38'47	-1°24'53
minimum elong	-8626 May 10 j 07:25	13°♓38'47	1°25'07
morning rise	-8626 May 26 j 07:03	14°♓14'15	
retrograde	-8626 Aug 21 j 05:21	16°♓07'10	
opposition	-8626 Nov 06 j 03:15	14°♓44'44	-1°28'09
min. Earth dist.	-8626 Nov 07 j 00:05	14°♓43'16	29.04285 AU
direct	-8625 Jan 25 j 08:37	13°♓19'07	
evening set	-8625 Apr 26 j 17:15	15°♓16'25	
conjunction	-8625 May 12 j 20:15	15°♓52'09	-1°19'54
minimum elong	-8625 May 12 j 20:16	15°♓52'09	1°20'06
max. Earth dist.	-8625 May 11 j 20:27	15°♓49'56	31.04613 AU
morning rise	-8625 May 28 j 19:43	16°♓27'35	
retrograde	-8625 Aug 23 j 18:05	18°♓20'24	
opposition	-8625 Nov 08 j 14:03	16°♓58'01	-1°22'46
min. Earth dist.	-8625 Nov 09 j 10:43	16°♓56'34	29.05076 AU
direct	-8624 Jan 27 j 23:03	15°♓32'23	
evening set	-8624 Apr 28 j 06:27	17°♓29'42	
max. Earth dist.	-8624 May 13 j 09:20	18°♓03'11	31.05350 AU
conjunction	-8624 May 14 j 09:16	18°♓05'25	-1°14'49
minimum elong	-8624 May 14 j 09:17	18°♓05'25	1°15'00
morning rise	-8624 May 30 j 08:13	18°♓40'49	
retrograde	-8624 Aug 25 j 04:24	20°♓33'31	
opposition	-8624 Nov 10 j 00:54	19°♓11'10	-1°17'16
min. Earth dist.	-8624 Nov 10 j 23:17	19°♓09'36	29.05764 AU
direct	-8623 Jan 29 j 11:57	17°♓45'31	
evening set	-8623 Apr 30 j 19:36	19°♓42'49	
conjunction	-8623 May 16 j 22:02	20°♓18'30	-1°09'37
minimum elong	-8623 May 16 j 22:02	20°♓18'30	1°09'46
max. Earth dist.	-8623 May 15 j 21:14	20°♓16'12	31.06015 AU
morning rise	-8623 Jun 01 j 20:41	20°♓53'53	
retrograde	-8623 Aug 27 j 15:26	22°♓46'27	
opposition	-8623 Nov 12 j 11:45	21°♓24'07	-1°11'39
min. Earth dist.	-8623 Nov 13 j 09:43	21°♓22'35	29.06389 AU
direct	-8622 Feb 01 j 01:59	19°♓58'28	
evening set	-8622 May 03 j 08:24	21°♓55'43	
max. Earth dist.	-8622 May 18 j 09:09	22°♓29'02	31.06628 AU
conjunction	-8622 May 19 j 10:29	22°♓31'23	-1°04'19
minimum elong	-8622 May 19 j 10:30	22°♓31'23	1°04'28
morning rise	-8622 Jun 04 j 08:41	23°♓06'43	
retrograde	-8622 Aug 30 j 02:07	24°♓59'12	
opposition	-8622 Nov 14 j 22:41	23°♓36'52	-1°05'57
min. Earth dist.	-8622 Nov 15 j 21:44	23°♓35'16	29.07009 AU
direct	-8621 Feb 03 j 13:57	22°♓11'11	
evening set	-8621 May 05 j 21:04	24°♓08'24	
conjunction	-8621 May 21 j 22:51	24°♓44'03	-0°58'56
minimum elong	-8621 May 21 j 22:52	24°♓44'03	0°59'03
max. Earth dist.	-8621 May 20 j 21:45	24°♓41'42	31.07268 AU
morning rise	-8621 Jun 06 j 20:38	25°♓19'21	
retrograde	-8621 Sep 01 j 11:54	27°♓11'42	
opposition	-8621 Nov 17 j 09:24	25°♓49'24	-1°00'09
min. Earth dist.	-8621 Nov 18 j 08:19	25°♓47'48	29.07661 AU
direct	-8620 Feb 06 j 03:14	24°♓23'42	
evening set	-8620 May 07 j 09:45	26°♓20'53	
max. Earth dist.	-8620 May 22 j 09:01	26°♓54'04	31.07963 AU
conjunction	-8620 May 23 j 11:03	26°♓56'29	-0°53'29
minimum elong	-8620 May 23 j 11:03	26°♓56'29	0°53'35
morning rise	-8620 Jun 08 j 08:28	27°♓31'46	
retrograde	-8620 Sep 02 j 21:27	29°♓24'02	
opposition	-8620 Nov 18 j 20:19	28°♓01'45	-0°54'16
min. Earth dist.	-8620 Nov 19 j 19:27	28°♓00'08	29.08409 AU
direct	-8619 Feb 07 j 14:34	26°♓36'02	
evening set	-8619 May 09 j 22:08	28°♓33'11	
conjunction	-8619 May 25 j 23:09	29°♓08'46	-0°47'57
minimum elong	-8619 May 25 j 23:09	29°♓08'46	0°48'01
max. Earth dist.	-8619 May 24 j 22:10	29°♓06'26	31.08765 AU
morning rise	-8619 Jun 10 j 19:58	29°♓44'00	
	-8619 Jun 18 j 06:56	0°♈	
retrograde	-8619 Sep 05 j 05:42	1°♈36'11	
opposition	-8619 Nov 21 j 07:18	0°♈13'57	-0°48'19
min. Earth dist.	-8619 Nov 22 j 06:40	0°♈12'19	29.09259 AU
	-8619 Nov 29 j 16:05	30°℞♓	
direct	-8618 Feb 10 j 02:56	28°♓48'15	
	-8618 Apr 20 j 08:11	0°♈	
evening set	-8618 May 12 j 10:37	0°♈45'23	
max. Earth dist.	-8618 May 27 j 08:58	1°♈18'30	31.09688 AU
conjunction	-8618 May 28 j 11:02	1°♈20'56	-0°42'20
minimum elong	-8618 May 28 j 11:02	1°♈20'56	0°42'24
morning rise	-8618 Jun 13 j 07:33	1°♈56'08	
retrograde	-8618 Sep 07 j 17:07	3°♈48'16	
opposition	-8618 Nov 23 j 18:12	2°♈26'04	-0°42'18
min. Earth dist.	-8618 Nov 24 j 16:57	2°♈24'29	29.10239 AU
direct	-8617 Feb 12 j 13:24	1°♈00'25	

Attention, astronomical year style is used: The year -8617 in astronomical counting style is the year 8618 BCE in historical counting style.

evening set	-8617 May 14 j 22:44	2°♈57'32	
conjunction	-8617 May 30 j 22:54	3°♈33'03	-0°36'40
minimum elong	-8617 May 30 j 22:55	3°♈33'03	0°36'42
max. Earth dist.	-8617 May 29 j 21:52	3°♈30'43	31.10713 AU
morning rise	-8617 Jun 15 j 18:49	4°♈08'14	
retrograde	-8617 Sep 10 j 02:16	6°♈00'19	
opposition	-8617 Nov 26 j 05:17	4°♈38'11	-0°36'12
min. Earth dist.	-8617 Nov 27 j 05:01	4°♈36'32	29.11287 AU
direct	-8616 Feb 15 j 01:29	3°♈12'35	
evening set	-8616 May 16 j 11:07	5°♈09'42	
max. Earth dist.	-8616 May 31 j 08:35	5°♈42'45	31.11789 AU
conjunction	-8616 Jun 01 j 10:39	5°♈45'11	-0°30'57
minimum elong	-8616 Jun 01 j 10:39	5°♈45'11	0°30'58
morning rise	-8616 Jun 17 j 06:13	6°♈20'20	
retrograde	-8616 Sep 11 j 14:12	8°♈12'22	
opposition	-8616 Nov 27 j 16:13	6°♈50'18	-0°30'04
min. Earth dist.	-8616 Nov 28 j 15:18	6°♈48'42	29.12358 AU
direct	-8615 Feb 16 j 14:44	5°♈24'45	
evening set	-8615 May 18 j 23:22	7°♈21'53	
conjunction	-8615 Jun 03 j 22:31	7°♈57'20	-0°25'11
minimum elong	-8615 Jun 03 j 22:31	7°♈57'20	0°25'10
max. Earth dist.	-8615 Jun 02 j 20:55	7°♈54'57	31.12843 AU
morning rise	-8615 Jun 19 j 17:25	8°♈32'26	
retrograde	-8615 Sep 14 j 00:30	10°♈24'28	
opposition	-8615 Nov 30 j 03:35	9°♈02'27	-0°23'53
min. Earth dist.	-8615 Dec 01 j 03:57	9°♈00'46	29.13390 AU
direct	-8614 Feb 19 j 02:35	7°♈36'57	
evening set	-8614 May 21 j 11:29	9°♈34'03	
max. Earth dist.	-8614 Jun 05 j 07:57	10°♈07'02	31.13840 AU
conjunction	-8614 Jun 06 j 10:03	10°♈09'28	-0°19'23
minimum elong	-8614 Jun 06 j 10:03	10°♈09'28	0°19'22
morning rise	-8614 Jun 22 j 04:31	10°♈44'32	
retrograde	-8614 Sep 16 j 11:49	12°♈36'32	
opposition	-8614 Dec 02 j 14:49	11°♈14'34	-0°17'40
min. Earth dist.	-8614 Dec 03 j 14:34	11°♈12'55	29.14329 AU
direct	-8613 Feb 21 j 16:30	9°♈49'06	
evening set	-8613 May 23 j 23:40	11°♈46'11	
conjunction	-8613 Jun 08 j 21:41	12°♈21'34	-0°13'34
minimum elong	-8613 Jun 08 j 21:42	12°♈21'34	0°13'31
behind sun begin	-8613 Jun 08 j 18:06	12°♈21'15	
behind sun end	-8613 Jun 09 j 01:17	12°♈21'53	
max. Earth dist.	-8613 Jun 07 j 19:07	12°♈19'05	31.14720 AU
morning rise	-8613 Jun 24 j 15:35	12°♈56'36	
retrograde	-8613 Sep 18 j 23:00	14°♈48'33	
opposition	-8613 Dec 05 j 02:03	13°♈26'37	-0°11'25
min. Earth dist.	-8613 Dec 06 j 02:53	13°♈24'54	29.15160 AU
direct	-8612 Feb 24 j 04:51	12°♈01'11	
evening set	-8612 May 25 j 11:44	13°♈58'14	
max. Earth dist.	-8612 Jun 09 j 06:50	14°♈31'06	31.15493 AU
conjunction	-8612 Jun 10 j 09:17	14°♈33'34	-0°07'45
minimum elong	-8612 Jun 10 j 09:17	14°♈33'34	0°07'41
behind sun begin	-8612 Jun 10 j 03:24	14°♈33'02	
behind sun end	-8612 Jun 10 j 15:09	14°♈34'05	
morning rise	-8612 Jun 26 j 02:36	15°♈08'33	
retrograde	-8612 Sep 20 j 08:50	17°♈00'28	
opposition	-8612 Dec 06 j 13:25	15°♈38'33	-0°05'10
min. Earth dist.	-8612 Dec 07 j 14:09	15°♈36'50	29.15863 AU
direct	-8611 Feb 25 j 18:59	14°♈13'08	
evening set	-8611 May 27 j 23:42	16°♈10'08	
conjunction	-8611 Jun 12 j 20:33	16°♈45'25	-0°01'55
minimum elong	-8611 Jun 12 j 20:34	16°♈45'25	0°01'49
behind sun begin	-8611 Jun 12 j 14:04	16°♈44'50	
behind sun end	-8611 Jun 13 j 03:03	16°♈46'00	
max. Earth dist.	-8611 Jun 11 j 17:10	16°♈42'52	31.16146 AU
morning rise	-8611 Jun 28 j 13:23	17°♈20'22	
retrograde	-8611 Sep 22 j 18:44	19°♈12'15	
asc. node	-8611 Oct 07 j 23:06	19°♈08'17	
opposition	-8611 Dec 09 j 00:49	17°♈50'19	0°01'04
min. Earth dist.	-8611 Dec 10 j 01:47	17°♈48'36	29.16483 AU
direct	-8610 Feb 28 j 06:31	16°♈24'55	
evening set	-8610 May 30 j 11:25	18°♈21'51	
max. Earth dist.	-8610 Jun 14 j 05:29	18°♈54'39	31.16732 AU
conjunction	-8610 Jun 15 j 07:51	18°♈57'06	0°04'04
minimum elong	-8610 Jun 15 j 07:51	18°♈57'06	0°04'10
behind sun begin	-8610 Jun 15 j 01:27	18°♈56'32	
behind sun end	-8610 Jun 15 j 14:14	18°♈57'40	
morning rise	-8610 Jun 30 j 24:00	19°♈32'01	
retrograde	-8610 Sep 25 j 02:54	21°♈23'51	
opposition	-8610 Dec 11 j 12:12	20°♈01'55	0°07'19
min. Earth dist.	-8610 Dec 12 j 13:29	20°♈00'10	29.17043 AU
direct	-8609 Mar 02 j 19:19	18°♈36'31	
evening set	-8609 Jun 01 j 23:02	20°♈33'23	
conjunction	-8609 Jun 17 j 18:44	21°♈08'36	0°09'52
minimum elong	-8609 Jun 17 j 18:44	21°♈08'36	0°10'00
behind sun begin	-8609 Jun 17 j 13:30	21°♈08'08	
behind sun end	-8609 Jun 17 j 23:58	21°♈09'04	
max. Earth dist.	-8609 Jun 16 j 15:24	21°♈06'03	31.17289 AU
morning rise	-8609 Jul 03 j 10:30	21°♈43'28	
retrograde	-8609 Sep 27 j 13:49	23°♈35'16	
opposition	-8609 Dec 13 j 23:29	22°♈13'20	0°13'32
min. Earth dist.	-8609 Dec 15 j 00:02	22°♈11'38	29.17609 AU
direct	-8608 Mar 04 j 06:10	20°♈47'55	
evening set	-8608 Jun 03 j 10:26	22°♈44'45	
max. Earth dist.	-8608 Jun 18 j 03:38	23°♈17'28	31.17864 AU
conjunction	-8608 Jun 19 j 05:41	23°♈19'54	0°15'39
minimum elong	-8608 Jun 19 j 05:40	23°♈19'54	0°15'49
behind sun begin	-8608 Jun 19 j 04:32	23°♈19'48	
behind sun end	-8608 Jun 19 j 06:48	23°♈20'00	
morning rise	-8608 Jul 04 j 20:40	23°♈54'44	
retrograde	-8608 Sep 28 j 22:14	25°♈46'31	
opposition	-8608 Dec 15 j 10:58	24°♈24'35	0°19'43
min. Earth dist.	-8608 Dec 16 j 12:06	24°♈22'51	29.18215 AU
direct	-8607 Mar 06 j 18:25	22°♈59'12	
evening set	-8607 Jun 05 j 21:54	24°♈55'58	
conjunction	-8607 Jun 21 j 16:21	25°♈31'05	0°21'26
minimum elong	-8607 Jun 21 j 16:21	25°♈31'05	0°21'36
max. Earth dist.	-8607 Jun 20 j 13:53	25°♈28'37	31.18521 AU
morning rise	-8607 Jul 07 j 06:54	26°♈05'52	
retrograde	-8607 Oct 01 j 09:32	27°♈57'39	
opposition	-8607 Dec 17 j 22:24	26°♈35'43	0°25'53
min. Earth dist.	-8607 Dec 18 j 22:07	26°♈34'05	29.18927 AU
direct	-8606 Mar 09 j 06:44	25°♈10'22	
evening set	-8606 Jun 08 j 08:59	27°♈07'07	
max. Earth dist.	-8606 Jun 23 j 01:36	27°♈39'49	31.19283 AU
conjunction	-8606 Jun 24 j 02:55	27°♈42'11	0°27'10
minimum elong	-8606 Jun 24 j 02:55	27°♈42'11	0°27'22
morning rise	-8606 Jul 09 j 16:44	28°♈16'56	
	-8606 Sep 11 j 08:31	0°♉	
retrograde	-8606 Oct 03 j 19:29	0°♉08'45	
	-8606 Oct 26 j 16:17	30°♓♈	
opposition	-8606 Dec 20 j 10:00	28°♈46'50	0°32'01
min. Earth dist.	-8606 Dec 21 j 10:17	28°♈45'10	29.19753 AU

Attention, astronomical year style is used: The year -8605 in astronomical counting style is the year 8606 BCE in historical counting style.

direct	-8605 Mar 11 j 17:29	27°♈21'33		
evening set	-8605 Jun 10 j 20:12	29°♈18'16		
conjunction	-8605 Jun 26 j 13:27	29°♈53'18	0°32'53	
minimum elong	-8605 Jun 26 j 13:27	29°♈53'17	0°33'05	
max. Earth dist.	-8605 Jun 25 j 12:24	29°♈50'57	31.20166 AU	
	-8605 Jun 29 j 12:59	0°♉		
morning rise	-8605 Jul 12 j 02:46	0°♉28'00		
retrograde	-8605 Oct 06 j 06:32	2°♉19'51		
opposition	-8605 Dec 22 j 21:19	0°♉57'59	0°38'05	
min. Earth dist.	-8605 Dec 23 j 20:20	0°♉56'24	29.20670 AU	
	-8604 Jan 30 j 16:02	30°℞♈		
direct	-8604 Mar 13 j 06:53	29°♈32'47		
	-8604 Apr 23 j 21:05	0°♉		
evening set	-8604 Jun 12 j 07:22	1°♉29'29		
conjunction	-8604 Jun 27 j 23:57	2°♉04'28	0°38'32	
minimum elong	-8604 Jun 27 j 23:57	2°♉04'28	0°38'46	
max. Earth dist.	-8604 Jun 26 j 23:07	2°♉02'09	31.21109 AU	
morning rise	-8604 Jul 13 j 12:38	2°♉39'08		
retrograde	-8604 Oct 07 j 18:31	4°♉31'02		
opposition	-8604 Dec 24 j 09:02	3°♉09'13	0°44'07	
min. Earth dist.	-8604 Dec 25 j 08:26	3°♉07'37	29.21640 AU	
direct	-8603 Mar 15 j 18:57	1°♉44'07		
evening set	-8603 Jun 14 j 18:20	3°♉40'49		
max. Earth dist.	-8603 Jun 29 j 10:22	4°♉13'30	31.22076 AU	
conjunction	-8603 Jun 30 j 10:18	4°♉15'45	0°44'09	
minimum elong	-8603 Jun 30 j 10:18	4°♉15'45	0°44'24	
morning rise	-8603 Jul 15 j 22:20	4°♉50'22		
retrograde	-8603 Oct 10 j 04:36	6°♉42'20		
opposition	-8603 Dec 26 j 20:51	5°♉20'33	0°50'04	
min. Earth dist.	-8603 Dec 27 j 19:41	5°♉19'00	29.22584 AU	
direct	-8602 Mar 18 j 08:49	3°♉55'33		
evening set	-8602 Jun 17 j 05:28	5°♉52'13		
conjunction	-8602 Jul 02 j 20:38	6°♉27'07	0°49'41	
minimum elong	-8602 Jul 02 j 20:38	6°♉27'07	0°49'58	
max. Earth dist.	-8602 Jul 01 j 20:08	6°♉24'49	31.22987 AU	
morning rise	-8602 Jul 18 j 08:09	7°♉01'41		
retrograde	-8602 Oct 12 j 15:09	8°♉53'43		
opposition	-8602 Dec 29 j 08:37	7°♉31'59	0°55'58	
min. Earth dist.	-8602 Dec 30 j 07:23	7°♉30'25	29.23470 AU	
direct	-8601 Mar 20 j 19:50	6°♉07'02		
evening set	-8601 Jun 19 j 16:23	8°♉03'41		
max. Earth dist.	-8601 Jul 04 j 07:43	8°♉36'21	31.23806 AU	
conjunction	-8601 Jul 05 j 07:02	8°♉38'32	0°55'09	
minimum elong	-8601 Jul 05 j 07:02	8°♉38'32	0°55'27	
morning rise	-8601 Jul 20 j 17:49	9°♉13'04		
retrograde	-8601 Oct 14 j 23:50	11°♉05'08		
opposition	-8601 Dec 31 j 20:36	9°♉43'25	1°01'46	
min. Earth dist.	-8600 Jan 01 j 19:38	9°♉41'51	29.24222 AU	
direct	-8600 Mar 22 j 09:16	8°♉18'33		
evening set	-8600 Jun 21 j 03:28	10°♉15'08		
conjunction	-8600 Jul 06 j 17:15	10°♉49'56	1°00'33	
minimum elong	-8600 Jul 06 j 17:14	10°♉49'56	1°00'52	
max. Earth dist.	-8600 Jul 05 j 16:58	10°♉47'39	31.24486 AU	
morning rise	-8600 Jul 22 j 03:32	11°♉24'26		
retrograde	-8600 Oct 16 j 11:16	13°♉16'32		
opposition	-8599 Jan 02 j 08:33	11°♉54'50	1°07'29	
min. Earth dist.	-8599 Jan 03 j 06:46	11°♉53'19	29.24841 AU	
direct	-8599 Mar 24 j 20:39	10°♉29'59		
evening set	-8599 Jun 23 j 14:20	12°♉26'32		
max. Earth dist.	-8599 Jul 08 j 04:26	12°♉59'06	31.25026 AU	

conjunction	-8599 Jul 09 j 03:35	13°♉01'16	1°05'51	
minimum elong	-8599 Jul 09 j 03:34	13°♉01'16	1°06'11	
morning rise	-8599 Jul 24 j 13:06	13°♉35'43		
	-8599 Sep 08 j 05:58	15°♉		
retrograde	-8599 Oct 18 j 19:24	15°♉27'52		
	-8599 Nov 29 j 21:52	15°℞♉		
opposition	-8598 Jan 04 j 20:45	14°♉06'08	1°13'06	
min. Earth dist.	-8598 Jan 05 j 19:39	14°♉04'34	29.25320 AU	
direct	-8598 Mar 27 j 08:58	12°♉41'20		
evening set	-8598 Jun 26 j 01:04	14°♉37'46		
	-8598 Jul 06 j 00:52	15°♉		
conjunction	-8598 Jul 11 j 13:31	15°♉12'28	1°11'03	
minimum elong	-8598 Jul 11 j 13:30	15°♉12'28	1°11'24	
max. Earth dist.	-8598 Jul 10 j 13:52	15°♉10'15	31.25447 AU	
morning rise	-8598 Jul 26 j 22:36	15°♉46'52		
retrograde	-8598 Oct 21 j 06:03	17°♉39'03		
opposition	-8597 Jan 07 j 08:43	16°♉17'17	1°18'36	
min. Earth dist.	-8597 Jan 08 j 06:24	16°♉15'48	29.25688 AU	
	-8597 Mar 07 j 21:59	15°℞♉		
direct	-8597 Mar 29 j 20:42	14°♉52'29		
	-8597 Apr 20 j 12:32	15°♉		
evening set	-8597 Jun 28 j 11:41	16°♉48'51		
conjunction	-8597 Jul 13 j 23:33	17°♉23'29	1°16'09	
minimum elong	-8597 Jul 13 j 23:32	17°♉23'29	1°16'30	
max. Earth dist.	-8597 Jul 13 j 00:47	17°♉21'21	31.25761 AU	
morning rise	-8597 Jul 29 j 07:56	17°♉57'51		
retrograde	-8597 Oct 23 j 15:42	19°♉50'04		
opposition	-8596 Jan 09 j 20:43	18°♉28'14	1°23'59	
min. Earth dist.	-8596 Jan 10 j 19:07	18°♉26'43	29.25985 AU	
direct	-8596 Mar 31 j 07:13	17°♉03'27		
evening set	-8596 Jun 29 j 22:13	18°♉59'43		
max. Earth dist.	-8596 Jul 14 j 11:06	19°♉32'13	31.26043 AU	
conjunction	-8596 Jul 15 j 09:21	19°♉34'18	1°21'07	
minimum elong	-8596 Jul 15 j 09:21	19°♉34'18	1°21'30	
morning rise	-8596 Jul 30 j 17:12	20°♉08'37		
retrograde	-8596 Oct 25 j 02:25	22°♉00'52		
opposition	-8595 Jan 11 j 08:48	20°♉38'59	1°29'15	
min. Earth dist.	-8595 Jan 12 j 05:39	20°♉37'34	29.26265 AU	
direct	-8595 Apr 02 j 21:05	19°♉14'13		
evening set	-8595 Jul 02 j 08:31	21°♉10'24		
conjunction	-8595 Jul 17 j 18:56	21°♉44'56	1°25'59	
minimum elong	-8595 Jul 17 j 18:55	21°♉44'56	1°26'23	
max. Earth dist.	-8595 Jul 16 j 21:10	21°♉42'53	31.26328 AU	
morning rise	-8595 Aug 02 j 02:11	22°♉19'12		
retrograde	-8595 Oct 27 j 14:03	24°♉11'31		
opposition	-8594 Jan 13 j 21:03	22°♉49'35	1°34'23	
min. Earth dist.	-8594 Jan 14 j 17:46	22°♉48'10	29.26598 AU	
direct	-8594 Apr 05 j 08:44	21°♉24'50		
evening set	-8594 Jul 04 j 18:44	23°♉20'57		
max. Earth dist.	-8594 Jul 19 j 08:15	23°♉53'31	31.26692 AU	
conjunction	-8594 Jul 20 j 04:34	23°♉55'26	1°30'43	
minimum elong	-8594 Jul 20 j 04:33	23°♉55'26	1°31'07	
morning rise	-8594 Aug 04 j 11:12	24°♉29'39		
retrograde	-8594 Oct 29 j 23:44	26°♉22'02		
opposition	-8593 Jan 16 j 09:05	25°♉00'04	1°39'22	
min. Earth dist.	-8593 Jan 17 j 04:38	24°♉58'45	29.27003 AU	
direct	-8593 Apr 07 j 22:08	23°♉35'22		
evening set	-8593 Jul 07 j 04:59	25°♉31'27		
conjunction	-8593 Jul 22 j 14:03	26°♉05'52	1°35'20	
minimum elong	-8593 Jul 22 j 14:02	26°♉05'52	1°35'45	
max. Earth dist.	-8593 Jul 21 j 17:40	26°♉03'57	31.27138 AU	

Attention, astronomical year style is used: The year -8593 in astronomical counting style is the year 8594 BCE in historical counting style.

morning rise	-8593 Aug 06 j 20:14	26°♉40'04	
retrograde	-8593 Nov 01 j 10:48	28°♉32'31	
opposition	-8592 Jan 18 j 21:15	27°♉10'34	1°44'13
min. Earth dist.	-8592 Jan 19 j 16:01	27°♉09'18	29.27502 AU
direct	-8592 Apr 09 j 09:14	25°♉45'56	
evening set	-8592 Jul 08 j 15:00	27°♉41'58	
conjunction	-8592 Jul 23 j 23:33	28°♉16'21	1°39'48
minimum elong	-8592 Jul 23 j 23:32	28°♉16'21	1°40'14
max. Earth dist.	-8592 Jul 23 j 05:06	28°♉14'37	31.27659 AU
morning rise	-8592 Aug 08 j 05:01	28°♉50'30	
	-8592 Sep 12 j 18:04	0°♊	
retrograde	-8592 Nov 02 j 19:56	0°♊43'04	
	-8592 Dec 26 j 11:55	30°℞♉	
opposition	-8591 Jan 20 j 09:36	29°♉21'08	1°48'55
min. Earth dist.	-8591 Jan 21 j 03:56	29°♉19'53	29.28043 AU
direct	-8591 Apr 11 j 22:39	27°♉56'36	
evening set	-8591 Jul 11 j 01:10	29°♉52'35	
	-8591 Jul 14 j 09:36	0°♊	
conjunction	-8591 Jul 26 j 08:54	0°♊26'56	1°44'07
minimum elong	-8591 Jul 26 j 08:54	0°♊26'56	1°44'34
max. Earth dist.	-8591 Jul 25 j 14:12	0°♊25'10	31.28213 AU
morning rise	-8591 Aug 10 j 14:01	1°♊01'03	
retrograde	-8591 Nov 05 j 07:51	2°♊53'44	
opposition	-8590 Jan 22 j 21:55	1°♊31'49	1°53'28
min. Earth dist.	-8590 Jan 23 j 14:52	1°♊30'40	29.28605 AU
direct	-8590 Apr 14 j 09:43	0°♊07'23	
evening set	-8590 Jul 13 j 11:04	2°♊03'20	
conjunction	-8590 Jul 28 j 18:20	2°♊37'38	1°48'18
minimum elong	-8590 Jul 28 j 18:19	2°♊37'38	1°48'46
max. Earth dist.	-8590 Jul 28 j 01:11	2°♊36'01	31.28741 AU
morning rise	-8590 Aug 12 j 22:47	3°♊11'44	
retrograde	-8590 Nov 07 j 16:32	5°♊04'32	
opposition	-8589 Jan 25 j 10:25	3°♊42'38	1°57'51
min. Earth dist.	-8589 Jan 26 j 03:46	3°♊41'28	29.29106 AU
direct	-8589 Apr 16 j 21:30	2°♊18'18	
evening set	-8589 Jul 15 j 21:11	4°♊14'12	
max. Earth dist.	-8589 Jul 30 j 10:22	4°♊46'50	31.29193 AU
conjunction	-8589 Jul 31 j 03:42	4°♊48'28	1°52'19
minimum elong	-8589 Jul 31 j 03:41	4°♊48'28	1°52'47
morning rise	-8589 Aug 15 j 07:45	5°♊22'32	
retrograde	-8589 Nov 10 j 03:32	7°♊15'28	
opposition	-8588 Jan 27 j 22:44	5°♊53'34	2°02'04
min. Earth dist.	-8588 Jan 28 j 14:38	5°♊52'29	29.29505 AU
direct	-8588 Apr 18 j 08:29	4°♊29'18	
evening set	-8588 Jul 17 j 07:13	6°♊25'10	
conjunction	-8588 Aug 01 j 13:12	6°♊59'24	1°56'11
minimum elong	-8588 Aug 01 j 13:11	6°♊59'24	1°56'40
max. Earth dist.	-8588 Jul 31 j 20:45	6°♊57'51	31.29514 AU
morning rise	-8588 Aug 16 j 16:40	7°♊33'26	
retrograde	-8588 Nov 11 j 14:03	9°♊26'29	
opposition	-8587 Jan 29 j 11:30	8°♊04'34	2°06'06
min. Earth dist.	-8587 Jan 30 j 03:57	8°♊03'28	29.29770 AU
direct	-8587 Apr 20 j 18:22	6°♊40'22	
evening set	-8587 Jul 19 j 17:07	8°♊36'11	
conjunction	-8587 Aug 03 j 22:29	9°♊10'22	1°59'52
minimum elong	-8587 Aug 03 j 22:28	9°♊10'22	2°00'22
max. Earth dist.	-8587 Aug 03 j 06:37	9°♊08'52	31.29703 AU
morning rise	-8587 Aug 19 j 01:31	9°♊44'22	
retrograde	-8587 Nov 14 j 01:16	11°♊37'32	
opposition	-8586 Feb 01 j 00:07	10°♊15'35	2°09'58
min. Earth dist.	-8586 Feb 01 j 15:07	10°♊14'35	29.29882 AU
direct	-8586 Apr 23 j 07:44	8°♊51'26	
evening set	-8586 Jul 22 j 03:03	10°♊47'10	
conjunction	-8586 Aug 06 j 07:49	11°♊21'19	2°03'24
minimum elong	-8586 Aug 06 j 07:48	11°♊21'19	2°03'54
max. Earth dist.	-8586 Aug 05 j 16:00	11°♊19'49	31.29733 AU
morning rise	-8586 Aug 21 j 10:29	11°♊55'17	
retrograde	-8586 Nov 16 j 13:44	13°♊48'34	
opposition	-8585 Feb 03 j 12:42	12°♊26'33	2°13'38
min. Earth dist.	-8585 Feb 04 j 03:51	12°♊25'32	29.29860 AU
direct	-8585 Apr 25 j 18:30	11°♊02'25	
evening set	-8585 Jul 24 j 12:46	12°♊58'05	
conjunction	-8585 Aug 08 j 17:08	13°♊32'11	2°06'44
minimum elong	-8585 Aug 08 j 17:07	13°♊32'11	2°07'15
max. Earth dist.	-8585 Aug 08 j 02:37	13°♊30'49	31.29644 AU
morning rise	-8585 Aug 23 j 19:18	14°♊06'08	
retrograde	-8585 Nov 18 j 23:40	15°♊59'30	
opposition	-8584 Feb 06 j 01:21	14°♊37'25	2°17'07
min. Earth dist.	-8584 Feb 06 j 15:29	14°♊36'27	29.29716 AU
direct	-8584 Apr 27 j 07:35	13°♊13'18	
evening set	-8584 Jul 25 j 22:24	15°♊08'52	
max. Earth dist.	-8584 Aug 09 j 11:28	15°♊41'33	31.29461 AU
conjunction	-8584 Aug 10 j 02:06	15°♊42'55	2°09'54
minimum elong	-8584 Aug 10 j 02:05	15°♊42'55	2°10'26
morning rise	-8584 Aug 25 j 04:00	16°♊16'50	
retrograde	-8584 Nov 20 j 11:17	18°♊10'18	
opposition	-8583 Feb 07 j 14:04	16°♊48'08	2°20'23
min. Earth dist.	-8583 Feb 08 j 03:24	16°♊47'14	29.29528 AU
direct	-8583 Apr 29 j 19:18	15°♊24'02	
evening set	-8583 Jul 28 j 07:51	17°♊19'29	
conjunction	-8583 Aug 12 j 11:12	17°♊53'31	2°12'52
minimum elong	-8583 Aug 12 j 11:11	17°♊53'31	2°13'24
max. Earth dist.	-8583 Aug 11 j 22:39	17°♊52'20	31.29260 AU
morning rise	-8583 Aug 27 j 12:35	18°♊27'24	
retrograde	-8583 Nov 22 j 20:58	20°♊20'56	
opposition	-8582 Feb 10 j 02:47	18°♊58'41	2°23'28
min. Earth dist.	-8582 Feb 10 j 15:27	18°♊57'50	29.29344 AU
direct	-8582 May 02 j 09:25	17°♊34'37	
evening set	-8582 Jul 30 j 17:16	19°♊29'59	
conjunction	-8582 Aug 14 j 20:00	20°♊03'58	2°15'39
minimum elong	-8582 Aug 14 j 19:59	20°♊03'58	2°16'12
max. Earth dist.	-8582 Aug 14 j 07:31	20°♊02'47	31.29102 AU
morning rise	-8582 Aug 29 j 21:13	20°♊37'49	
retrograde	-8582 Nov 25 j 08:44	22°♊31'28	
opposition	-8581 Feb 12 j 15:23	21°♊09'09	2°26'21
min. Earth dist.	-8581 Feb 13 j 02:12	21°♊08'25	29.29231 AU
direct	-8581 May 04 j 20:48	19°♊45'05	
evening set	-8581 Aug 02 j 02:33	21°♊40'22	
conjunction	-8581 Aug 17 j 04:57	22°♊14'20	2°18'15
minimum elong	-8581 Aug 17 j 04:57	22°♊14'20	2°18'47
max. Earth dist.	-8581 Aug 16 j 18:22	22°♊13'19	31.29017 AU
morning rise	-8581 Sep 01 j 05:42	22°♊48'10	
retrograde	-8581 Nov 27 j 16:53	24°♊41'55	
opposition	-8580 Feb 15 j 04:04	23°♊19'33	2°29'00
min. Earth dist.	-8580 Feb 15 j 14:39	23°♊18'50	29.29198 AU
direct	-8580 May 06 j 09:00	21°♊55'33	
evening set	-8580 Aug 03 j 11:55	23°♊50'45	
conjunction	-8580 Aug 18 j 13:48	24°♊24'41	2°20'38
minimum elong	-8580 Aug 18 j 13:47	24°♊24'41	2°21'11
max. Earth dist.	-8580 Aug 18 j 03:48	24°♊23'44	31.29037 AU
morning rise	-8580 Sep 02 j 14:21	24°♊58'30	

Attention, astronomical year style is used: The year -8580 in astronomical counting style is the year 8581 BCE in historical counting style.

retrograde	-8580 Nov 29 j 03:44	26°♊52'22	
opposition	-8579 Feb 16 j 16:47	25°♊29'59	2°31'27
min. Earth dist.	-8579 Feb 17 j 01:10	25°♊29'25	29.29258 AU
direct	-8579 May 08 j 20:18	24°♊06'03	
evening set	-8579 Aug 05 j 21:02	26°♊01'10	
conjunction	-8579 Aug 20 j 22:35	26°♊35'04	2°22'50
minimum elong	-8579 Aug 20 j 22:35	26°♊35'04	2°23'22
max. Earth dist.	-8579 Aug 20 j 13:57	26°♊34'15	31.29119 AU
morning rise	-8579 Sep 04 j 22:52	27°♊08'53	
retrograde	-8579 Dec 01 j 14:20	29°♊02'54	
opposition	-8578 Feb 19 j 05:42	27°♊40'29	2°33'41
min. Earth dist.	-8578 Feb 19 j 14:08	27°♊39'55	29.29370 AU
direct	-8578 May 11 j 06:20	26°♊16'38	
evening set	-8578 Aug 08 j 06:17	28°♊11'41	
conjunction	-8578 Aug 23 j 07:30	28°♊45'34	2°24'49
minimum elong	-8578 Aug 23 j 07:29	28°♊45'33	2°25'22
max. Earth dist.	-8578 Aug 23 j 00:04	28°♊44'51	31.29237 AU
morning rise	-8578 Sep 07 j 07:33	29°♊19'22	
	-8578 Sep 26 j 14:56	0°♋	
retrograde	-8578 Dec 04 j 01:20	1°♋13'31	
	-8577 Feb 16 j 05:27	30°℞♊	
opposition	-8577 Feb 21 j 18:19	29°♊51'05	2°35'42
min. Earth dist.	-8577 Feb 22 j 00:56	29°♊50'38	29.29477 AU
direct	-8577 May 13 j 18:18	28°♊27'19	
	-8577 Jul 31 j 07:40	0°♋	
evening set	-8577 Aug 10 j 15:36	0°♋22'18	
conjunction	-8577 Aug 25 j 16:23	0°♋56'10	2°26'35
minimum elong	-8577 Aug 25 j 16:23	0°♋56'10	2°27'09
max. Earth dist.	-8577 Aug 25 j 09:13	0°♋55'29	31.29316 AU
morning rise	-8577 Sep 09 j 16:19	1°♋29'57	
retrograde	-8577 Dec 06 j 13:56	3°♋24'16	
opposition	-8576 Feb 24 j 07:18	2°♋01'48	2°37'29
min. Earth dist.	-8576 Feb 24 j 13:46	2°♋01'21	29.29537 AU
direct	-8576 May 15 j 03:45	0°♋38'06	
evening set	-8576 Aug 12 j 00:43	2°♋33'02	
conjunction	-8576 Aug 27 j 01:19	3°♋06'52	2°28'09
minimum elong	-8576 Aug 27 j 01:18	3°♋06'52	2°28'43
max. Earth dist.	-8576 Aug 26 j 19:47	3°♋06'20	31.29327 AU
morning rise	-8576 Sep 11 j 00:56	3°♋40'39	
retrograde	-8576 Dec 08 j 00:38	5°♋35'06	
opposition	-8575 Feb 25 j 20:20	4°♋12'36	2°39'03
min. Earth dist.	-8575 Feb 26 j 01:39	4°♋12'15	29.29491 AU
direct	-8575 May 17 j 16:02	2°♋48'58	
evening set	-8575 Aug 14 j 10:06	4°♋43'50	
conjunction	-8575 Aug 29 j 10:16	5°♋17'39	2°29'31
minimum elong	-8575 Aug 29 j 10:16	5°♋17'39	2°30'04
max. Earth dist.	-8575 Aug 29 j 04:29	5°♋17'06	31.29221 AU
morning rise	-8575 Sep 13 j 09:55	5°♋51'26	
retrograde	-8575 Dec 10 j 13:36	7°♋46'01	
opposition	-8574 Feb 28 j 09:20	6°♋23'28	2°40'23
min. Earth dist.	-8574 Feb 28 j 13:58	6°♋23'09	29.29333 AU
direct	-8574 May 20 j 02:57	4°♋59'53	
evening set	-8574 Aug 16 j 19:13	6°♋54'40	
conjunction	-8574 Aug 31 j 19:21	7°♋28'28	2°30'39
minimum elong	-8574 Aug 31 j 19:21	7°♋28'28	2°31'13
max. Earth dist.	-8574 Aug 31 j 15:17	7°♋28'05	31.28983 AU
morning rise	-8574 Sep 15 j 18:46	8°♋02'15	
retrograde	-8574 Dec 13 j 00:27	9°♋56'58	
opposition	-8573 Mar 02 j 22:23	8°♋34'21	2°41'30
min. Earth dist.	-8573 Mar 03 j 02:40	8°♋34'03	29.29020 AU
direct	-8573 May 22 j 16:21	7°♋10'49	
evening set	-8573 Aug 19 j 04:29	9°♋05'30	
conjunction	-8573 Sep 03 j 04:15	9°♋39'17	2°31'35
minimum elong	-8573 Sep 03 j 04:15	9°♋39'17	2°32'09
max. Earth dist.	-8573 Sep 02 j 23:56	9°♋38'53	31.28609 AU
morning rise	-8573 Sep 18 j 03:45	10°♋13'04	
retrograde	-8573 Dec 15 j 12:51	12°♋07'53	
opposition	-8572 Mar 04 j 11:19	10°♋45'12	2°42'23
min. Earth dist.	-8572 Mar 04 j 14:06	10°♋45'00	29.28589 AU
direct	-8572 May 24 j 03:36	9°♋21'41	
evening set	-8572 Aug 20 j 13:30	11°♋16'16	
conjunction	-8572 Sep 04 j 13:14	11°♋50'03	2°32'18
minimum elong	-8572 Sep 04 j 13:14	11°♋50'03	2°32'52
max. Earth dist.	-8572 Sep 04 j 10:26	11°♋49'47	31.28124 AU
morning rise	-8572 Sep 19 j 12:36	12°♋23'50	
retrograde	-8572 Dec 16 j 22:02	14°♋18'46	
opposition	-8571 Mar 07 j 00:27	12°♋55'59	2°43'02
min. Earth dist.	-8571 Mar 07 j 03:13	12°♋55'48	29.28072 AU
direct	-8571 May 26 j 16:10	11°♋32'29	
evening set	-8571 Aug 22 j 22:26	13°♋26'57	
conjunction	-8571 Sep 06 j 21:59	14°♋00'44	2°32'48
minimum elong	-8571 Sep 06 j 21:59	14°♋00'44	2°33'21
max. Earth dist.	-8571 Sep 06 j 19:51	14°♋00'31	31.27597 AU
morning rise	-8571 Sep 21 j 21:28	14°♋34'30	
retrograde	-8571 Dec 19 j 09:12	16°♋29'33	
opposition	-8570 Mar 09 j 13:23	15°♋06'41	2°43'27
min. Earth dist.	-8570 Mar 09 j 14:05	15°♋06'38	29.27539 AU
direct	-8570 May 29 j 04:04	13°♋43'12	
evening set	-8570 Aug 25 j 07:23	15°♋37'34	
conjunction	-8570 Sep 09 j 06:50	16°♋11'20	2°33'05
minimum elong	-8570 Sep 09 j 06:50	16°♋11'20	2°33'38
max. Earth dist.	-8570 Sep 09 j 05:51	16°♋11'14	31.27066 AU
morning rise	-8570 Sep 24 j 06:21	16°♋45'07	
retrograde	-8570 Dec 21 j 19:41	18°♋40'17	
opposition	-8569 Mar 12 j 02:17	17°♋17'20	2°43'38
min. Earth dist.	-8569 Mar 12 j 02:57	17°♋17'17	29.27043 AU
direct	-8569 May 31 j 14:24	15°♋53'53	
evening set	-8569 Aug 27 j 16:15	17°♋48'09	
conjunction	-8569 Sep 11 j 15:42	18°♋21'54	2°33'09
minimum elong	-8569 Sep 11 j 15:42	18°♋21'54	2°33'41
max. Earth dist.	-8569 Sep 11 j 16:16	18°♋21'58	31.26609 AU
morning rise	-8569 Sep 26 j 15:13	18°♋55'43	
retrograde	-8569 Dec 24 j 06:26	20°♋51'00	
opposition	-8568 Mar 13 j 15:13	19°♋27'59	2°43'35
min. Earth dist.	-8568 Mar 13 j 13:38	19°♋28'05	29.26623 AU
direct	-8568 Jun 02 j 02:10	18°♋04'35	
evening set	-8568 Aug 29 j 01:05	19°♋58'45	
conjunction	-8568 Sep 13 j 00:22	20°♋32'31	2°32'59
minimum elong	-8568 Sep 13 j 00:22	20°♋32'31	2°33'32
max. Earth dist.	-8568 Sep 13 j 01:28	20°♋32'37	31.26236 AU
morning rise	-8568 Sep 28 j 00:07	21°♋06'20	
retrograde	-8568 Dec 25 j 19:03	23°♋01'46	
opposition	-8567 Mar 16 j 04:21	21°♋38'42	2°43'18
min. Earth dist.	-8567 Mar 16 j 02:08	21°♋38'51	29.26305 AU
direct	-8567 Jun 04 j 10:48	20°♋15'22	
evening set	-8567 Aug 31 j 09:51	22°♋09'28	
conjunction	-8567 Sep 15 j 09:19	22°♋43'14	2°32'37
minimum elong	-8567 Sep 15 j 09:20	22°♋43'14	2°33'09
max. Earth dist.	-8567 Sep 15 j 12:32	22°♋43'33	31.25960 AU
morning rise	-8567 Sep 30 j 09:06	23°♋17'04	
retrograde	-8567 Dec 28 j 06:00	25°♋12'39	

Attention, astronomical year style is used: The year -8566 in astronomical counting style is the year 8567 BCE in historical counting style.

opposition	-8566 Mar 18 j 17:15	23°♓49'33	2°42'47
min. Earth dist.	-8566 Mar 18 j 13:30	23°♓49'48	29.26053 AU
direct	-8566 Jun 06 j 22:06	22°♓26'18	
evening set	-8566 Sep 02 j 18:46	24°♓20'20	
conjunction	-8566 Sep 17 j 18:08	24°♓54'06	2°32'01
minimum elong	-8566 Sep 17 j 18:08	24°♓54'06	2°32'33
max. Earth dist.	-8566 Sep 17 j 21:25	24°♓54'25	31.25736 AU
morning rise	-8566 Oct 02 j 18:17	25°♓27'58	
retrograde	-8566 Dec 30 j 19:51	27°♓23'42	
opposition	-8565 Mar 21 j 06:18	26°♓00'34	2°42'01
min. Earth dist.	-8565 Mar 21 j 01:35	26°♓00'53	29.25841 AU
direct	-8565 Jun 09 j 08:17	24°♓37'24	
evening set	-8565 Sep 05 j 03:32	26°♓31'21	
conjunction	-8565 Sep 20 j 03:07	27°♓05'09	2°31'11
minimum elong	-8565 Sep 20 j 03:07	27°♓05'09	2°31'43
max. Earth dist.	-8565 Sep 20 j 08:27	27°♓05'39	31.25513 AU
morning rise	-8565 Oct 05 j 03:18	27°♓39'02	
retrograde	-8564 Jan 02 j 07:53	29°♓34'55	
opposition	-8564 Mar 22 j 19:26	28°♓11'45	2°41'01
min. Earth dist.	-8564 Mar 22 j 14:08	28°♓12'07	29.25595 AU
direct	-8564 Jun 10 j 20:35	26°♓48'40	
evening set	-8564 Sep 06 j 12:35	28°♓42'34	
conjunction	-8564 Sep 21 j 12:07	29°♓16'22	2°30'09
minimum elong	-8564 Sep 21 j 12:07	29°♓16'22	2°30'40
max. Earth dist.	-8564 Sep 21 j 17:28	29°♓16'53	31.25252 AU
morning rise	-8564 Oct 06 j 12:41	29°♓50'17	
	-8564 Oct 10 j 22:52	0°♌	
retrograde	-8563 Jan 03 j 21:12	1°♌46'18	
opposition	-8563 Mar 25 j 08:34	0°♌23'07	2°39'48
min. Earth dist.	-8563 Mar 25 j 01:46	0°♌23'34	29.25295 AU
	-8563 Apr 08 j 20:19	30°℞♓	
direct	-8563 Jun 13 j 06:52	29°♓00'05	
	-8563 Aug 13 j 14:18	0°♌	
evening set	-8563 Sep 08 j 21:31	0°♌53'55	
conjunction	-8563 Sep 23 j 21:18	1°♌27'44	2°28'53
minimum elong	-8563 Sep 23 j 21:18	1°♌27'44	2°29'24
max. Earth dist.	-8563 Sep 24 j 03:57	1°♌28'22	31.24892 AU
morning rise	-8563 Oct 08 j 22:05	2°♌01'40	
retrograde	-8562 Jan 06 j 07:57	3°♌57'50	
opposition	-8562 Mar 27 j 21:50	2°♌34'35	2°38'20
min. Earth dist.	-8562 Mar 27 j 15:13	2°♌35'02	29.24872 AU
direct	-8562 Jun 15 j 19:34	1°♌11'37	
evening set	-8562 Sep 11 j 06:40	3°♌05'21	
conjunction	-8562 Sep 26 j 06:36	3°♌39'11	2°27'25
minimum elong	-8562 Sep 26 j 06:36	3°♌39'11	2°27'55
max. Earth dist.	-8562 Sep 26 j 13:36	3°♌39'51	31.24409 AU
morning rise	-8562 Oct 11 j 07:43	4°♌13'09	
retrograde	-8561 Jan 08 j 20:39	6°♌09'25	
opposition	-8561 Mar 30 j 10:48	4°♌46'07	2°36'39
min. Earth dist.	-8561 Mar 30 j 02:33	4°♌46'40	29.24307 AU
direct	-8561 Jun 18 j 07:53	3°♌23'11	
evening set	-8561 Sep 13 j 15:48	5°♌16'49	
conjunction	-8561 Sep 28 j 15:54	5°♌50'41	2°25'44
minimum elong	-8561 Sep 28 j 15:55	5°♌50'41	2°26'13
max. Earth dist.	-8561 Sep 28 j 23:26	5°♌51'23	31.23768 AU
morning rise	-8561 Oct 13 j 17:24	6°♌24'40	
retrograde	-8560 Jan 11 j 07:39	8°♌21'03	
opposition	-8560 Apr 01 j 00:07	6°♌57'39	2°34'44
min. Earth dist.	-8560 Mar 31 j 16:16	6°♌58'11	29.23595 AU
direct	-8560 Jun 19 j 18:48	5°♌34'44	
evening set	-8560 Sep 15 j 00:42	7°♌28'14	

conjunction	-8560 Sep 30 j 01:10	8°♌02'07	2°23'50
minimum elong	-8560 Sep 30 j 01:11	8°♌02'07	2°24'19
max. Earth dist.	-8560 Sep 30 j 09:57	8°♌02'57	31.23002 AU
morning rise	-8560 Oct 15 j 02:59	8°♌36'09	
retrograde	-8559 Jan 12 j 18:10	10°♌32'37	
opposition	-8559 Apr 03 j 13:15	9°♌09'07	2°32'36
min. Earth dist.	-8559 Apr 03 j 03:41	9°♌09'46	29.22759 AU
direct	-8559 Jun 22 j 06:59	7°♌46'11	
evening set	-8559 Sep 17 j 09:48	9°♌39'34	
conjunction	-8559 Oct 02 j 10:26	10°♌13'28	2°21'44
minimum elong	-8559 Oct 02 j 10:26	10°♌13'28	2°22'13
max. Earth dist.	-8559 Oct 02 j 19:11	10°♌14'18	31.22129 AU
morning rise	-8559 Oct 17 j 12:49	10°♌47'32	
retrograde	-8558 Jan 15 j 06:07	12°♌44'05	
opposition	-8558 Apr 06 j 02:17	11°♌20'28	2°30'15
min. Earth dist.	-8558 Apr 05 j 16:38	11°♌21'07	29.21864 AU
direct	-8558 Jun 24 j 16:19	9°♌57'32	
evening set	-8558 Sep 19 j 18:42	11°♌50'47	
conjunction	-8558 Oct 04 j 19:48	12°♌24'43	2°19'27
minimum elong	-8558 Oct 04 j 19:48	12°♌24'43	2°19'54
max. Earth dist.	-8558 Oct 05 j 06:27	12°♌25'43	31.21225 AU
morning rise	-8558 Oct 19 j 22:28	12°♌58'48	
retrograde	-8557 Jan 17 j 16:59	14°♌55'26	
opposition	-8557 Apr 08 j 15:14	13°♌31'43	2°27'41
min. Earth dist.	-8557 Apr 08 j 04:09	13°♌32'28	29.20954 AU
direct	-8557 Jun 27 j 04:11	12°♌08'46	
evening set	-8557 Sep 22 j 03:39	14°♌01'55	
conjunction	-8557 Oct 07 j 04:53	14°♌35'52	2°16'57
minimum elong	-8557 Oct 07 j 04:54	14°♌35'52	2°17'23
max. Earth dist.	-8557 Oct 07 j 15:37	14°♌36'53	31.20342 AU
	-8557 Oct 17 j 20:37	15°♌	
morning rise	-8557 Oct 22 j 08:10	15°♌10'00	
retrograde	-8556 Jan 20 j 06:21	17°♌06'43	
opposition	-8556 Apr 10 j 04:14	15°♌42'54	2°24'55
min. Earth dist.	-8556 Apr 09 j 16:08	15°♌43'43	29.20106 AU
	-8556 May 07 j 21:31	15°℞♌	
direct	-8556 Jun 28 j 13:59	14°♌19'57	
	-8556 Aug 16 j 22:08	15°♌	
evening set	-8556 Sep 23 j 12:34	16°♌13'01	
conjunction	-8556 Oct 08 j 14:19	16°♌46'59	2°14'15
minimum elong	-8556 Oct 08 j 14:20	16°♌46'59	2°14'41
max. Earth dist.	-8556 Oct 09 j 03:09	16°♌48'12	31.19534 AU
morning rise	-8556 Oct 23 j 17:57	17°♌21'10	
retrograde	-8555 Jan 21 j 18:11	19°♌18'00	
opposition	-8555 Apr 12 j 17:12	17°♌54'06	2°21'55
min. Earth dist.	-8555 Apr 12 j 04:19	17°♌54'58	29.19338 AU
direct	-8555 Jul 01 j 01:23	16°♌31'11	
evening set	-8555 Sep 25 j 21:33	18°♌24'09	
conjunction	-8555 Oct 10 j 23:37	18°♌58'10	2°11'21
minimum elong	-8555 Oct 10 j 23:38	18°♌58'10	2°11'46
max. Earth dist.	-8555 Oct 11 j 12:43	18°♌59'24	31.18826 AU
morning rise	-8555 Oct 26 j 03:55	19°♌32'23	
retrograde	-8554 Jan 24 j 07:50	21°♌29'20	
opposition	-8554 Apr 15 j 06:05	20°♌05'22	2°18'43
min. Earth dist.	-8554 Apr 14 j 15:30	20°♌06'22	29.18664 AU
direct	-8554 Jul 03 j 11:17	18°♌42'30	
evening set	-8554 Sep 28 j 06:35	20°♌35'25	
conjunction	-8554 Oct 13 j 09:07	21°♌09'28	2°08'15
minimum elong	-8554 Oct 13 j 09:07	21°♌09'28	2°08'39
max. Earth dist.	-8554 Oct 13 j 23:38	21°♌10'50	31.18182 AU
morning rise	-8554 Oct 28 j 13:53	21°♌43'44	

Attention, astronomical year style is used: The year -8553 in astronomical counting style is the year 8554 BCE in historical counting style.

retrograde	-8553 Jan 26 j 19:34	23°♌40'48	
opposition	-8553 Apr 17 j 18:58	22°♌16'48	2°15'19
min. Earth dist.	-8553 Apr 17 j 04:19	22°♌17'48	29.18041 AU
direct	-8553 Jul 05 j 23:13	20°♌54'00	
evening set	-8553 Sep 30 j 15:40	22°♌46'51	
conjunction	-8553 Oct 15 j 18:39	23°♌20'57	2°04'59
minimum elong	-8553 Oct 15 j 18:40	23°♌20'57	2°05'22
max. Earth dist.	-8553 Oct 16 j 10:01	23°♌22'24	31.17595 AU
morning rise	-8553 Oct 30 j 24:00	23°♌55'16	
retrograde	-8552 Jan 29 j 09:31	25°♌52'27	
opposition	-8552 Apr 19 j 07:52	24°♌28'26	2°11'42
min. Earth dist.	-8552 Apr 18 j 15:22	24°♌29'33	29.17449 AU
direct	-8552 Jul 07 j 11:00	23°♌05'42	
evening set	-8552 Oct 02 j 00:49	24°♌58'30	
conjunction	-8552 Oct 17 j 04:12	25°♌32'38	2°01'30
minimum elong	-8552 Oct 17 j 04:12	25°♌32'38	2°01'53
max. Earth dist.	-8552 Oct 17 j 20:10	25°♌34'08	31.16998 AU
morning rise	-8552 Nov 01 j 10:12	26°♌07'00	
retrograde	-8551 Jan 30 j 21:16	28°♌04'20	
opposition	-8551 Apr 21 j 20:59	26°♌40'17	2°07'54
min. Earth dist.	-8551 Apr 21 j 04:54	26°♌41'22	29.16832 AU
direct	-8551 Jul 09 j 21:23	25°♌17'36	
evening set	-8551 Oct 04 j 10:08	27°♌10'21	
conjunction	-8551 Oct 19 j 14:08	27°♌44'32	1°57'51
minimum elong	-8551 Oct 19 j 14:09	27°♌44'32	1°58'12
max. Earth dist.	-8551 Oct 20 j 07:21	27°♌46'10	31.16360 AU
morning rise	-8551 Nov 03 j 20:38	28°♌18'58	
	-8550 Jan 01 j 11:00	0°♍	
retrograde	-8550 Feb 02 j 08:38	0°♍16'24	
	-8550 Mar 07 j 01:40	30°℞♌	
opposition	-8550 Apr 24 j 09:44	28°♌52'20	2°03'54
min. Earth dist.	-8550 Apr 23 j 16:13	28°♌53'31	29.16139 AU
direct	-8550 Jul 12 j 09:07	27°♌29'42	
evening set	-8550 Oct 06 j 19:40	29°♌22'24	
conjunction	-8550 Oct 22 j 00:01	29°♌56'37	1°54'02
minimum elong	-8550 Oct 22 j 00:02	29°♌56'37	1°54'22
max. Earth dist.	-8550 Oct 22 j 16:47	29°♌58'12	31.15618 AU
	-8550 Oct 23 j 11:46	0°♍	
morning rise	-8550 Nov 06 j 07:18	0°♍31'06	
retrograde	-8549 Feb 04 j 21:17	2°♍28'40	
opposition	-8549 Apr 26 j 22:46	1°♍04'32	1°59'43
min. Earth dist.	-8549 Apr 26 j 05:32	1°♍05'42	29.15337 AU
	-8549 Jun 11 j 04:53	30°℞♌	
direct	-8549 Jul 14 j 18:11	29°♌41'56	
	-8549 Aug 16 j 08:57	0°♍	
evening set	-8549 Oct 09 j 05:01	1°♍34'34	
conjunction	-8549 Oct 24 j 10:03	2°♍08'50	1°50'02
minimum elong	-8549 Oct 24 j 10:04	2°♍08'50	1°50'21
max. Earth dist.	-8549 Oct 25 j 04:19	2°♍10'33	31.14752 AU
morning rise	-8549 Nov 08 j 17:47	2°♍43'22	
retrograde	-8548 Feb 07 j 08:46	4°♍41'02	
opposition	-8548 Apr 28 j 11:44	3°♍16'50	1°55'22
min. Earth dist.	-8548 Apr 27 j 17:33	3°♍18'04	29.14388 AU
direct	-8548 Jul 16 j 06:05	1°♍54'14	
evening set	-8548 Oct 10 j 14:40	3°♍46'47	
conjunction	-8548 Oct 25 j 20:07	4°♍21'06	1°45'53
minimum elong	-8548 Oct 25 j 20:08	4°♍21'06	1°46'12
max. Earth dist.	-8548 Oct 26 j 13:47	4°♍22'46	31.13754 AU
morning rise	-8548 Nov 10 j 04:41	4°♍55'42	
retrograde	-8547 Feb 08 j 22:12	6°♍53'26	
min. Earth dist.	-8547 Apr 30 j 06:10	5°♍30'24	29.13329 AU
opposition	-8547 May 01 j 00:38	5°♍29'09	1°50'51
direct	-8547 Jul 18 j 15:38	4°♍06'32	
evening set	-8547 Oct 13 j 00:09	5°♍59'00	
conjunction	-8547 Oct 28 j 06:19	6°♍33'21	1°41'35
minimum elong	-8547 Oct 28 j 06:20	6°♍33'21	1°41'52
max. Earth dist.	-8547 Oct 29 j 01:28	6°♍35'09	31.12645 AU
morning rise	-8547 Nov 12 j 15:28	7°♍08'00	
retrograde	-8546 Feb 11 j 09:50	9°♍05'48	
opposition	-8546 May 03 j 13:27	7°♍41'24	1°46'10
min. Earth dist.	-8546 May 02 j 18:47	7°♍42'40	29.12170 AU
direct	-8546 Jul 21 j 02:42	6°♍18'45	
evening set	-8546 Oct 15 j 09:45	8°♍11'08	
conjunction	-8546 Oct 30 j 16:25	8°♍45'31	1°37'08
minimum elong	-8546 Oct 30 j 16:25	8°♍45'31	1°37'24
max. Earth dist.	-8546 Oct 31 j 11:27	8°♍47'19	31.11483 AU
morning rise	-8546 Nov 15 j 02:19	9°♍20'13	
retrograde	-8545 Feb 13 j 23:24	11°♍18'05	
min. Earth dist.	-8545 May 05 j 06:10	9°♍54'55	29.11000 AU
opposition	-8545 May 06 j 02:03	9°♍53'34	1°41'20
direct	-8545 Jul 23 j 12:40	8°♍30'53	
evening set	-8545 Oct 17 j 19:19	10°♍23'10	
conjunction	-8545 Nov 02 j 02:35	10°♍57'37	1°32'33
minimum elong	-8545 Nov 02 j 02:35	10°♍57'37	1°32'47
max. Earth dist.	-8545 Nov 02 j 22:46	10°♍59'31	31.10325 AU
morning rise	-8545 Nov 17 j 13:07	11°♍32'22	
retrograde	-8544 Feb 16 j 11:48	13°♍30'16	
opposition	-8544 May 07 j 14:46	12°♍05'39	1°36'22
min. Earth dist.	-8544 May 06 j 18:55	12°♍07'00	29.09872 AU
direct	-8544 Jul 25 j 00:54	10°♍42'56	
evening set	-8544 Oct 19 j 04:51	12°♍35'09	
conjunction	-8544 Nov 03 j 12:45	13°♍09'38	1°27'50
minimum elong	-8544 Nov 03 j 12:46	13°♍09'38	1°28'03
max. Earth dist.	-8544 Nov 04 j 09:49	13°♍11'37	31.09256 AU
morning rise	-8544 Nov 18 j 24:00	13°♍44'26	
retrograde	-8543 Feb 18 j 02:05	15°♍42'24	
min. Earth dist.	-8543 May 09 j 05:39	14°♍19'10	29.08845 AU
opposition	-8543 May 10 j 03:18	14°♍17'41	1°31'15
direct	-8543 Jul 27 j 12:51	12°♍54'57	
evening set	-8543 Oct 21 j 14:39	14°♍47'06	
conjunction	-8543 Nov 05 j 23:05	15°♍21'38	1°22'58
minimum elong	-8543 Nov 05 j 23:05	15°♍21'39	1°23'10
max. Earth dist.	-8543 Nov 06 j 20:36	15°♍23'40	31.08284 AU
morning rise	-8543 Nov 21 j 11:06	15°♍56'30	
retrograde	-8542 Feb 20 j 13:43	17°♍54'32	
opposition	-8542 May 12 j 15:45	16°♍29'45	1°25'59
min. Earth dist.	-8542 May 11 j 18:27	16°♍31'12	29.07933 AU
direct	-8542 Jul 29 j 23:06	15°♍07'01	
evening set	-8542 Oct 24 j 00:20	16°♍59'07	
conjunction	-8542 Nov 08 j 09:32	17°♍33'42	1°18'00
minimum elong	-8542 Nov 08 j 09:33	17°♍33'42	1°18'11
max. Earth dist.	-8542 Nov 09 j 08:33	17°♍35'52	31.07439 AU
morning rise	-8542 Nov 23 j 22:08	18°♍08'37	
retrograde	-8541 Feb 23 j 01:57	20°♍06'42	
min. Earth dist.	-8541 May 14 j 05:12	18°♍43'27	29.07129 AU
opposition	-8541 May 15 j 04:09	18°♍41'53	1°20'36
direct	-8541 Aug 01 j 11:15	17°♍19'11	
evening set	-8541 Oct 26 j 10:10	19°♍11'14	
conjunction	-8541 Nov 10 j 19:49	19°♍45'52	1°12'54
minimum elong	-8541 Nov 10 j 19:50	19°♍45'52	1°13'03
max. Earth dist.	-8541 Nov 11 j 18:38	19°♍48'01	31.06689 AU

Attention, astronomical year style is used: The year -8541 in astronomical counting style is the year 8542 BCE in historical counting style.

morning rise	-8541 Nov 26 j 09:17	20°♑20'51	
retrograde	-8540 Feb 25 j 15:09	22°♑19'01	
opposition	-8540 May 16 j 16:45	20°♑54'09	1°15'04
min. Earth dist.	-8540 May 15 j 17:53	20°♑55'44	29.06418 AU
direct	-8540 Aug 02 j 20:51	19°♑31'29	
evening set	-8540 Oct 27 j 20:05	21°♑23'31	
conjunction	-8540 Nov 12 j 06:33	21°♑58'12	1°07'41
minimum elong	-8540 Nov 12 j 06:34	21°♑58'12	1°07'50
max. Earth dist.	-8540 Nov 13 j 07:02	22°♑00'30	31.06011 AU
morning rise	-8540 Nov 27 j 20:34	22°♑33'14	
retrograde	-8539 Feb 27 j 02:31	24°♑31'29	
min. Earth dist.	-8539 May 18 j 05:20	23°♑08'14	29.05746 AU
opposition	-8539 May 19 j 05:05	23°♑06'36	1°09'26
direct	-8539 Aug 05 j 08:20	21°♑43'58	
evening set	-8539 Oct 30 j 06:21	23°♑35'59	
conjunction	-8539 Nov 14 j 17:19	24°♑10'42	1°02'21
minimum elong	-8539 Nov 14 j 17:20	24°♑10'42	1°02'28
max. Earth dist.	-8539 Nov 15 j 17:12	24°♑12'58	31.05353 AU
morning rise	-8539 Nov 30 j 08:13	24°♑45'48	
retrograde	-8538 Mar 01 j 15:45	26°♑44'09	
opposition	-8538 May 21 j 17:34	25°♑19'15	1°03'42
min. Earth dist.	-8538 May 20 j 17:43	25°♑20'53	29.05075 AU
direct	-8538 Aug 07 j 17:24	23°♑56'38	
evening set	-8538 Nov 01 j 16:38	25°♑48'38	
conjunction	-8538 Nov 17 j 04:19	26°♑23'25	0°56'56
minimum elong	-8538 Nov 17 j 04:20	26°♑23'25	0°57'02
max. Earth dist.	-8538 Nov 18 j 05:25	26°♑25'47	31.04651 AU
morning rise	-8538 Dec 02 j 19:45	26°♑58'34	
retrograde	-8537 Mar 04 j 03:26	28°♑57'00	
min. Earth dist.	-8537 May 23 j 06:15	27°♑33'42	29.04332 AU
opposition	-8537 May 24 j 05:58	27°♑32'04	0°57'51
direct	-8537 Aug 10 j 03:48	26°♑09'28	
evening set	-8537 Nov 04 j 03:11	28°♑01'28	
conjunction	-8537 Nov 19 j 15:26	28°♑36'18	0°51'26
minimum elong	-8537 Nov 19 j 15:27	28°♑36'18	0°51'30
max. Earth dist.	-8537 Nov 20 j 15:59	28°♑38'36	31.03880 AU
morning rise	-8537 Dec 05 j 07:39	29°♑11'30	
	-8537 Dec 28 j 17:32	0°♎	
retrograde	-8536 Mar 05 j 17:52	1°♎10'00	
	-8536 May 16 j 15:46	30°℞♑	
opposition	-8536 May 25 j 18:25	29°♑45'02	0°51'55
min. Earth dist.	-8536 May 24 j 18:03	29°♑46'43	29.03506 AU
direct	-8536 Aug 11 j 13:40	28°♑22'26	
	-8536 Oct 29 j 22:36	0°♎	
evening set	-8536 Nov 05 j 13:46	0°♎14'25	
conjunction	-8536 Nov 21 j 02:42	0°♎49'18	0°45'50
minimum elong	-8536 Nov 21 j 02:42	0°♎49'18	0°45'54
max. Earth dist.	-8536 Nov 22 j 03:36	0°♎51'39	31.02991 AU
morning rise	-8536 Dec 06 j 19:36	1°♎24'34	
retrograde	-8535 Mar 08 j 06:42	3°♎23'07	
min. Earth dist.	-8535 May 27 j 07:20	1°♎59'43	29.02554 AU
opposition	-8535 May 28 j 06:56	1°♎58'06	0°45'54
direct	-8535 Aug 14 j 01:21	0°♎35'28	
evening set	-8535 Nov 08 j 00:30	2°♎27'26	
conjunction	-8535 Nov 23 j 14:09	3°♎02'22	0°40'11
minimum elong	-8535 Nov 23 j 14:09	3°♎02'22	0°40'13
max. Earth dist.	-8535 Nov 24 j 15:07	3°♎04'43	31.02001 AU
morning rise	-8535 Dec 09 j 07:43	3°♎37'41	
retrograde	-8534 Mar 10 j 21:08	5°♎36'15	
opposition	-8534 May 30 j 19:03	4°♎11'10	0°39'50
min. Earth dist.	-8534 May 29 j 18:30	4°♎12'52	29.01510 AU
direct	-8534 Aug 16 j 13:15	2°♎48'30	
evening set	-8534 Nov 10 j 11:20	4°♎40'27	
conjunction	-8534 Nov 26 j 01:30	5°♎15'26	0°34'29
minimum elong	-8534 Nov 26 j 01:30	5°♎15'26	0°34'30
max. Earth dist.	-8534 Nov 27 j 02:15	5°♎17'45	31.00925 AU
morning rise	-8534 Dec 11 j 19:50	5°♎50'48	
retrograde	-8533 Mar 13 j 09:30	7°♎49'24	
min. Earth dist.	-8533 Jun 01 j 07:45	6°♎25'52	29.00421 AU
opposition	-8533 Jun 02 j 07:23	6°♎24'15	0°33'41
direct	-8533 Aug 18 j 23:49	5°♎01'32	
evening set	-8533 Nov 12 j 21:55	6°♎53'27	
conjunction	-8533 Nov 28 j 12:52	7°♎28'28	0°28'43
minimum elong	-8533 Nov 28 j 12:52	7°♎28'28	0°28'42
max. Earth dist.	-8533 Nov 29 j 14:43	7°♎30'54	30.99846 AU
morning rise	-8533 Dec 14 j 07:44	8°♎03'53	
retrograde	-8532 Mar 14 j 22:47	10°♎02'30	
opposition	-8532 Jun 03 j 19:29	8°♎37'17	0°27'30
min. Earth dist.	-8532 Jun 02 j 18:41	8°♎39'00	28.99351 AU
direct	-8532 Aug 20 j 12:39	7°♎14'32	
evening set	-8532 Nov 14 j 08:55	9°♎06'25	
conjunction	-8532 Nov 30 j 00:19	9°♎41'30	0°22'55
minimum elong	-8532 Nov 30 j 00:19	9°♎41'30	0°22'54
max. Earth dist.	-8532 Dec 01 j 01:33	9°♎43'52	30.98809 AU
morning rise	-8532 Dec 15 j 20:01	10°♎16'58	
retrograde	-8531 Mar 17 j 12:28	12°♎15'37	
min. Earth dist.	-8531 Jun 05 j 07:13	10°♎52'00	28.98366 AU
opposition	-8531 Jun 06 j 07:33	10°♎50'19	0°21'17
direct	-8531 Aug 22 j 22:51	9°♎27'32	
evening set	-8531 Nov 16 j 19:51	11°♎19'25	
conjunction	-8531 Dec 02 j 12:03	11°♎54'32	0°17'05
minimum elong	-8531 Dec 02 j 12:03	11°♎54'32	0°17'02
max. Earth dist.	-8531 Dec 03 j 14:42	11°♎57'03	30.97871 AU
morning rise	-8531 Dec 18 j 08:13	12°♎30'04	
retrograde	-8530 Mar 19 j 23:33	14°♎28'44	
opposition	-8530 Jun 08 j 19:29	13°♎03'24	0°15'01
min. Earth dist.	-8530 Jun 07 j 18:19	13°♎05'09	28.97481 AU
direct	-8530 Aug 25 j 10:45	11°♎40'36	
evening set	-8530 Nov 19 j 06:56	13°♎32'30	
conjunction	-8530 Dec 04 j 23:34	14°♎07'39	0°11'14
minimum elong	-8530 Dec 04 j 23:34	14°♎07'39	0°11'10
behind sun begin	-8530 Dec 04 j 18:45	14°♎07'13	
behind sun end	-8530 Dec 05 j 04:23	14°♎08'05	
max. Earth dist.	-8530 Dec 06 j 01:35	14°♎10'06	30.97053 AU
morning rise	-8530 Dec 20 j 20:29	14°♎43'13	
retrograde	-8529 Mar 22 j 12:18	16°♎41'56	
min. Earth dist.	-8529 Jun 10 j 06:07	15°♎18'20	28.96729 AU
opposition	-8529 Jun 11 j 07:28	15°♎16'35	0°08'44
direct	-8529 Aug 27 j 20:01	13°♎53'46	
evening set	-8529 Nov 21 j 18:05	15°♎45'42	
conjunction	-8529 Dec 07 j 11:25	16°♎20'54	0°05'22
minimum elong	-8529 Dec 07 j 11:25	16°♎20'54	0°05'16
behind sun begin	-8529 Dec 07 j 05:07	16°♎20'20	
behind sun end	-8529 Dec 07 j 17:42	16°♎21'28	
max. Earth dist.	-8529 Dec 08 j 14:44	16°♎23'28	30.96356 AU
morning rise	-8529 Dec 23 j 08:49	16°♎56'31	
retrograde	-8528 Mar 23 j 24:00	18°♎55'17	
opposition	-8528 Jun 12 j 19:24	17°♎29'55	0°02'25
min. Earth dist.	-8528 Jun 11 j 18:06	17°♎31'40	28.96085 AU
direct	-8528 Aug 29 j 06:02	16°♎07'07	
desc. node	-8528 Oct 31 j 03:33	17°♎11'32	
evening set	-8528 Nov 23 j 05:24	17°♎59'04	

Attention, astronomical year style is used: The year -8528 in astronomical counting style is the year 8529 BCE in historical counting style.

conjunction	-8528 Dec 08 j 23:16	18°♎34'19	-0°00'39
minimum elong	-8528 Dec 08 j 23:18	18°♎34'19	0°00'45
behind sun begin	-8528 Dec 08 j 16:48	18°♎33'44	
behind sun end	-8528 Dec 09 j 05:47	18°♎34'54	
max. Earth dist.	-8528 Dec 10 j 02:10	18°♎36'51	30.95772 AU
morning rise	-8528 Dec 24 j 21:24	19°♎09'59	
retrograde	-8527 Mar 26 j 13:58	21°♎08'47	
min. Earth dist.	-8527 Jun 14 j 05:23	19°♎45'14	28.95536 AU
opposition	-8527 Jun 15 j 07:18	19°♎43'26	-0°03'54
direct	-8527 Aug 31 j 15:47	18°♎20'38	
evening set	-8527 Nov 25 j 17:01	20°♎12'39	
conjunction	-8527 Dec 11 j 11:27	20°♎47'56	-0°06'35
minimum elong	-8527 Dec 11 j 11:27	20°♎47'56	0°06'44
behind sun begin	-8527 Dec 11 j 05:23	20°♎47'24	
behind sun end	-8527 Dec 11 j 17:32	20°♎48'29	
max. Earth dist.	-8527 Dec 12 j 14:40	20°♎50'30	30.95236 AU
morning rise	-8527 Dec 27 j 10:06	21°♎23'39	
retrograde	-8526 Mar 29 j 02:05	23°♎22'30	
opposition	-8526 Jun 17 j 19:08	21°♎57'09	-0°10'14
min. Earth dist.	-8526 Jun 16 j 18:08	21°♎58'54	28.95014 AU
direct	-8526 Sep 03 j 02:35	20°♎34'22	
evening set	-8526 Nov 28 j 04:44	22°♎26'26	
conjunction	-8526 Dec 13 j 23:46	23°♎01'46	-0°12'28
minimum elong	-8526 Dec 13 j 23:46	23°♎01'46	0°12'38
behind sun begin	-8526 Dec 13 j 19:39	23°♎01'24	
behind sun end	-8526 Dec 14 j 03:54	23°♎02'09	
max. Earth dist.	-8526 Dec 15 j 02:56	23°♎04'19	30.94723 AU
morning rise	-8526 Dec 29 j 22:54	23°♎37'31	
retrograde	-8525 Mar 31 j 16:30	25°♎36'25	
min. Earth dist.	-8525 Jun 19 j 05:11	24°♎12'52	28.94484 AU
opposition	-8525 Jun 20 j 06:56	24°♎11'05	-0°16'32
direct	-8525 Sep 05 j 13:37	22°♎48'16	
evening set	-8525 Nov 30 j 16:37	24°♎40'25	
conjunction	-8525 Dec 16 j 12:05	25°♎15'47	-0°18'22
minimum elong	-8525 Dec 16 j 12:04	25°♎15'47	0°18'33
max. Earth dist.	-8525 Dec 17 j 14:39	25°♎18'17	30.94155 AU
morning rise	-8524 Jan 01 j 11:50	25°♎51'34	
retrograde	-8524 Apr 02 j 05:48	27°♎50'31	
opposition	-8524 Jun 21 j 18:57	26°♎25'10	-0°22'50
min. Earth dist.	-8524 Jun 20 j 18:38	26°♎26'52	28.93883 AU
direct	-8524 Sep 07 j 00:02	25°♎02'20	
evening set	-8524 Dec 02 j 04:44	26°♎54'32	
conjunction	-8524 Dec 18 j 00:54	27°♎29'57	-0°24'14
minimum elong	-8524 Dec 18 j 00:53	27°♎29'57	0°24'25
max. Earth dist.	-8524 Dec 19 j 03:45	27°♎32'28	30.93506 AU
morning rise	-8523 Jan 03 j 01:02	28°♎05'46	
	-8523 Mar 18 j 19:42	0°♏	
retrograde	-8523 Apr 04 j 20:22	0°♏04'42	
	-8523 Apr 21 j 22:44	30°℞♎	
min. Earth dist.	-8523 Jun 23 j 05:55	28°♎41'04	28.93173 AU
opposition	-8523 Jun 24 j 06:38	28°♎39'20	-0°29'06
direct	-8523 Sep 09 j 13:20	27°♎16'28	
evening set	-8523 Dec 04 j 17:06	29°♎08'42	
conjunction	-8523 Dec 20 j 13:38	29°♎44'10	-0°30'04
minimum elong	-8523 Dec 20 j 13:38	29°♎44'10	0°30'17
max. Earth dist.	-8523 Dec 21 j 14:58	29°♎46'32	30.92735 AU
	-8523 Dec 27 j 14:29	0°♏	
morning rise	-8522 Jan 05 j 14:26	0°♏20'01	
retrograde	-8522 Apr 07 j 10:24	2°♏18'56	
opposition	-8522 Jun 26 j 18:32	0°♏53'32	-0°35'19
min. Earth dist.	-8522 Jun 25 j 19:03	0°♏55'11	28.92355 AU
	-8522 Jul 31 j 09:46	30°℞♎	
direct	-8522 Sep 12 j 00:28	29°♎30'36	
	-8522 Oct 23 j 12:53	0°♏	
evening set	-8522 Dec 07 j 05:16	1°♏22'52	
conjunction	-8522 Dec 23 j 02:27	1°♏58'21	-0°35'51
minimum elong	-8522 Dec 23 j 02:26	1°♏58'21	0°36'05
max. Earth dist.	-8522 Dec 24 j 04:26	2°♏00'48	30.91867 AU
morning rise	-8521 Jan 08 j 03:31	2°♏34'14	
retrograde	-8521 Apr 09 j 22:15	4°♏33'08	
min. Earth dist.	-8521 Jun 28 j 06:35	3°♏09'20	28.91449 AU
opposition	-8521 Jun 29 j 06:12	3°♏07'41	-0°41'29
direct	-8521 Sep 14 j 13:03	1°♏44'40	
evening set	-8521 Dec 09 j 17:42	3°♏36'58	
conjunction	-8521 Dec 25 j 15:14	4°♏12'28	-0°41'35
minimum elong	-8521 Dec 25 j 15:14	4°♏12'28	0°41'51
max. Earth dist.	-8521 Dec 26 j 15:52	4°♏14'47	30.90949 AU
morning rise	-8520 Jan 10 j 16:56	4°♏48'23	
retrograde	-8520 Apr 11 j 11:53	6°♏47'15	
opposition	-8520 Jun 30 j 17:49	5°♏21'45	-0°47'35
min. Earth dist.	-8520 Jun 29 j 18:42	5°♏23'22	28.90538 AU
direct	-8520 Sep 15 j 23:37	3°♏58'39	
evening set	-8520 Dec 11 j 06:07	5°♏50'58	
conjunction	-8520 Dec 27 j 04:15	6°♏26'31	-0°47'16
minimum elong	-8520 Dec 27 j 04:15	6°♏26'31	0°47'32
max. Earth dist.	-8520 Dec 28 j 05:39	6°♏28'54	30.90037 AU
morning rise	-8519 Jan 12 j 06:16	7°♏02'27	
retrograde	-8519 Apr 13 j 23:28	9°♏01'17	
min. Earth dist.	-8519 Jul 02 j 06:44	7°♏37'19	28.89651 AU
opposition	-8519 Jul 03 j 05:21	7°♏35'44	-0°53'37
direct	-8519 Sep 18 j 10:52	6°♏12'34	
evening set	-8519 Dec 13 j 18:44	8°♏04'56	
conjunction	-8519 Dec 29 j 17:14	8°♏40'30	-0°52'52
minimum elong	-8519 Dec 29 j 17:14	8°♏40'30	0°53'10
max. Earth dist.	-8519 Dec 30 j 17:43	8°♏42'48	30.89190 AU
morning rise	-8518 Jan 14 j 19:43	9°♏16'28	
retrograde	-8518 Apr 16 j 12:27	11°♏15'16	
opposition	-8518 Jul 05 j 16:40	9°♏49'41	-0°59'34
min. Earth dist.	-8518 Jul 04 j 17:44	9°♏51'18	28.88861 AU
direct	-8518 Sep 20 j 21:22	8°♏26'26	
evening set	-8518 Dec 16 j 07:22	10°♏18'53	
conjunction	-8517 Jan 01 j 06:17	10°♏54'29	-0°58'23
minimum elong	-8517 Jan 01 j 06:17	10°♏54'29	0°58'41
max. Earth dist.	-8517 Jan 02 j 07:01	10°♏56'48	30.88442 AU
morning rise	-8517 Jan 17 j 09:05	11°♏30'27	
retrograde	-8517 Apr 18 j 23:36	13°♏29'15	
min. Earth dist.	-8517 Jul 07 j 06:03	12°♏05'12	28.88186 AU
opposition	-8517 Jul 08 j 04:08	12°♏03'39	-1°05'26
direct	-8517 Sep 23 j 07:56	10°♏40'21	
evening set	-8517 Dec 18 j 19:55	12°♏32'53	
conjunction	-8516 Jan 03 j 19:20	13°♏08'30	-1°03'49
minimum elong	-8516 Jan 03 j 19:20	13°♏08'30	1°04'09
max. Earth dist.	-8516 Jan 04 j 19:55	13°♏10'49	30.87837 AU
morning rise	-8516 Jan 19 j 22:30	13°♏44'30	
	-8516 Feb 28 j 01:16	15°♏	
retrograde	-8516 Apr 20 j 13:31	15°♏43'17	
	-8516 Jun 13 j 10:12	15°℞♏	
opposition	-8516 Jul 09 j 15:28	14°♏17'42	-1°11'11
min. Earth dist.	-8516 Jul 08 j 16:35	14°♏19'19	28.87646 AU
direct	-8516 Sep 24 j 18:54	12°♏54'22	
evening set	-8516 Dec 20 j 08:53	14°♏47'00	
	-8516 Dec 26 j 06:15	15°♏	

Attention, astronomical year style is used: The year -8515 in astronomical counting style is the year 8516 BCE in historical counting style.

conjunction	-8515 Jan 05 j 08:37	15°♏22'39	-1°09'10	
minimum elong	-8515 Jan 05 j 08:36	15°♏22'39	1°09'30	
max. Earth dist.	-8515 Jan 06 j 08:39	15°♏24'54	30.87347 AU	
morning rise	-8515 Jan 21 j 12:11	15°♏58'41		
retrograde	-8515 Apr 23 j 02:11	17°♏57'27		
min. Earth dist.	-8515 Jul 11 j 05:15	16°♏33'25	28.87222 AU	
opposition	-8515 Jul 12 j 02:47	16°♏31'54	-1°16'51	
direct	-8515 Sep 27 j 05:02	15°♏08'33		
evening set	-8515 Dec 22 j 21:51	17°♏01'17		
conjunction	-8514 Jan 07 j 22:06	17°♏36'58	-1°14'25	
minimum elong	-8514 Jan 07 j 22:06	17°♏36'58	1°14'47	
max. Earth dist.	-8514 Jan 08 j 22:32	17°♏39'16	30.86971 AU	
morning rise	-8514 Jan 24 j 01:51	18°♏13'01		
retrograde	-8514 Apr 25 j 16:38	20°♏11'48		
opposition	-8514 Jul 14 j 14:01	18°♏46'17	-1°22'24	
min. Earth dist.	-8514 Jul 13 j 16:00	18°♏47'51	28.86883 AU	
direct	-8514 Sep 29 j 18:03	17°♏22'55		
evening set	-8514 Dec 25 j 10:59	19°♏15'47		
conjunction	-8513 Jan 10 j 11:25	19°♏51'30	-1°19'33	
minimum elong	-8513 Jan 10 j 11:24	19°♏51'30	1°19'55	
max. Earth dist.	-8513 Jan 11 j 10:29	19°♏53'40	30.86651 AU	
morning rise	-8513 Jan 26 j 15:35	20°♏27'34		
retrograde	-8513 Apr 28 j 06:37	22°♏26'22		
min. Earth dist.	-8513 Jul 16 j 04:39	21°♏02'22	28.86590 AU	
opposition	-8513 Jul 17 j 01:24	21°♏00'54	-1°27'50	
direct	-8513 Oct 02 j 04:58	19°♏37'30		
evening set	-8513 Dec 28 j 00:17	21°♏30'30		
conjunction	-8512 Jan 13 j 01:13	22°♏06'15	-1°24'34	
minimum elong	-8512 Jan 13 j 01:12	22°♏06'15	1°24'58	
max. Earth dist.	-8512 Jan 14 j 00:43	22°♏08'27	30.86349 AU	
morning rise	-8512 Jan 29 j 05:28	22°♏42'20		
retrograde	-8512 Apr 29 j 19:45	24°♏41'07		
opposition	-8512 Jul 18 j 12:33	23°♏15'42	-1°33'08	
min. Earth dist.	-8512 Jul 17 j 16:03	23°♏17'09	28.86274 AU	
direct	-8512 Oct 03 j 17:17	21°♏52'17		
evening set	-8512 Dec 29 j 13:57	23°♏45'25		
conjunction	-8511 Jan 14 j 15:04	24°♏21'11	-1°29'27	
minimum elong	-8511 Jan 14 j 15:04	24°♏21'11	1°29'51	
max. Earth dist.	-8511 Jan 15 j 12:35	24°♏23'12	30.86002 AU	
morning rise	-8511 Jan 30 j 19:44	24°♏57'17		
retrograde	-8511 May 02 j 10:54	26°♏56'02		
opposition	-8511 Jul 20 j 23:54	25°♏30'40	-1°38'17	
min. Earth dist.	-8511 Jul 20 j 04:22	25°♏32'03	28.85899 AU	
direct	-8511 Oct 06 j 04:31	24°♏07'12		
evening set	-8510 Jan 01 j 03:35	26°♏00'26		
conjunction	-8510 Jan 17 j 05:07	26°♏36'14	-1°34'12	
minimum elong	-8510 Jan 17 j 05:06	26°♏36'14	1°34'39	
max. Earth dist.	-8510 Jan 18 j 02:45	26°♏38'16	30.85563 AU	
morning rise	-8510 Feb 02 j 09:48	27°♏12'20		
retrograde	-8510 May 04 j 22:54	29°♏11'03		
opposition	-8510 Jul 23 j 11:06	27°♏45'42	-1°43'18	
min. Earth dist.	-8510 Jul 22 j 16:38	27°♏47'00	28.85417 AU	
direct	-8510 Oct 08 j 16:21	26°♏22'11		
evening set	-8509 Jan 03 j 17:19	28°♏15'30		
conjunction	-8509 Jan 19 j 19:05	28°♏51'18	-1°38'49	
minimum elong	-8509 Jan 19 j 19:04	28°♏51'18	1°39'15	
max. Earth dist.	-8509 Jan 20 j 15:00	28°♏53'10	30.85046 AU	
morning rise	-8509 Feb 05 j 00:05	29°♏27'26		
	-8509 Feb 20 j 10:10	0°♐		
retrograde	-8509 May 07 j 12:01	1°♐26'05		
opposition	-8509 Jul 25 j 22:16	0°♐00'43	-1°48'09	
min. Earth dist.	-8509 Jul 25 j 04:04	0°♐02'01	28.84874 AU	
	-8509 Jul 26 j 08:26	30°℞♏		
direct	-8509 Oct 11 j 03:39	28°♏37'06		
	-8509 Dec 22 j 20:05	0°♐		
evening set	-8508 Jan 06 j 06:59	0°♐30'31		
conjunction	-8508 Jan 22 j 09:06	1°♐06'20	-1°43'17	
minimum elong	-8508 Jan 22 j 09:05	1°♐06'20	1°43'45	
max. Earth dist.	-8508 Jan 23 j 04:41	1°♐08'10	30.84464 AU	
morning rise	-8508 Feb 07 j 14:14	1°♐42'28		
retrograde	-8508 May 08 j 22:51	3°♐41'02		
opposition	-8508 Jul 27 j 09:25	2°♐15'40	-1°52'50	
min. Earth dist.	-8508 Jul 26 j 16:44	2°♐16'51	28.84286 AU	
direct	-8508 Oct 12 j 14:33	0°♐51'57		
evening set	-8507 Jan 07 j 20:50	2°♐45'27		
conjunction	-8507 Jan 23 j 23:15	3°♐21'17	-1°47'35	
minimum elong	-8507 Jan 23 j 23:14	3°♐21'17	1°48'02	
max. Earth dist.	-8507 Jan 24 j 17:54	3°♐23'02	30.83883 AU	
morning rise	-8507 Feb 09 j 04:33	3°♐57'24		
retrograde	-8507 May 11 j 12:26	5°♐55'53		
opposition	-8507 Jul 29 j 20:13	4°♐30'30	-1°57'21	
min. Earth dist.	-8507 Jul 29 j 03:16	4°♐31'42	28.83724 AU	
direct	-8507 Oct 15 j 01:34	3°♐06'41		
evening set	-8506 Jan 10 j 10:48	5°♐00'16		
conjunction	-8506 Jan 26 j 13:22	5°♐36'07	-1°51'43	
minimum elong	-8506 Jan 26 j 13:21	5°♐36'07	1°52'12	
max. Earth dist.	-8506 Jan 27 j 07:10	5°♐37'47	30.83338 AU	
morning rise	-8506 Feb 11 j 18:50	6°♐12'14		
retrograde	-8506 May 13 j 23:14	8°♐10'38		
opposition	-8506 Aug 01 j 07:14	6°♐45'14	-2°01'41	
min. Earth dist.	-8506 Jul 31 j 15:51	6°♐46'20	28.83239 AU	
direct	-8506 Oct 17 j 12:23	5°♐21'19		
evening set	-8505 Jan 13 j 00:28	7°♐15'00		
conjunction	-8505 Jan 29 j 03:23	7°♐50'51	-1°55'41	
minimum elong	-8505 Jan 29 j 03:23	7°♐50'50	1°56'10	
max. Earth dist.	-8505 Jan 29 j 21:20	7°♐52'31	30.82905 AU	
morning rise	-8505 Feb 14 j 08:52	8°♐26'58		
retrograde	-8505 May 16 j 12:03	10°♐25'16		
opposition	-8505 Aug 03 j 18:03	8°♐59'53	-2°05'50	
min. Earth dist.	-8505 Aug 03 j 02:14	9°♐01'00	28.82874 AU	
direct	-8505 Oct 20 j 01:35	7°♐35'52		
evening set	-8504 Jan 15 j 14:31	9°♐29'40		
conjunction	-8504 Jan 31 j 17:30	10°♐05'31	-1°59'29	
minimum elong	-8504 Jan 31 j 17:30	10°♐05'31	1°59'59	
max. Earth dist.	-8504 Feb 01 j 10:02	10°♐07'04	30.82603 AU	
morning rise	-8504 Feb 16 j 23:14	10°♐41'38		
retrograde	-8504 May 18 j 00:55	12°♐39'52		
opposition	-8504 Aug 05 j 04:53	11°♐14'30	-2°09'47	
min. Earth dist.	-8504 Aug 04 j 14:18	11°♐15'32	28.82664 AU	
direct	-8504 Oct 21 j 12:24	9°♐50'24		
evening set	-8503 Jan 17 j 04:30	11°♐44'19		
conjunction	-8503 Feb 02 j 07:54	12°♐20'11	-2°03'06	
minimum elong	-8503 Feb 02 j 07:53	12°♐20'11	2°03'35	
max. Earth dist.	-8503 Feb 03 j 00:50	12°♐21'46	30.82459 AU	
morning rise	-8503 Feb 18 j 13:32	12°♐56'18		
retrograde	-8503 May 20 j 13:57	14°♐54'27		
opposition	-8503 Aug 07 j 15:40	13°♐29'07	-2°13'33	
min. Earth dist.	-8503 Aug 07 j 01:05	13°♐30'10	28.82593 AU	
direct	-8503 Oct 24 j 01:07	12°♐04'59		
evening set	-8502 Jan 19 j 18:40	13°♐59'02		
conjunction	-8502 Feb 04 j 22:04	14°♐34'54	-2°06'31	

Attention, astronomical year style is used: The year -8502 in astronomical counting style is the year 8503 BCE in historical counting style.

minimum elong	-8502 Feb 04 j 22:04	14°♐34'54	2°07'02
max. Earth dist.	-8502 Feb 05 j 13:16	14°♐36'19	30.82456 AU
morning rise	-8502 Feb 21 j 03:55	15°♐11'01	
retrograde	-8502 May 23 j 04:40	17°♐09'06	
opposition	-8502 Aug 10 j 02:27	15°♐43'50	-2°17'06
min. Earth dist.	-8502 Aug 09 j 12:35	15°♐44'49	28.82665 AU
direct	-8502 Oct 26 j 12:52	14°♐19'40	
evening set	-8501 Jan 22 j 08:49	16°♐13'50	
conjunction	-8501 Feb 07 j 12:33	16°♐49'44	-2°09'45
minimum elong	-8501 Feb 07 j 12:32	16°♐49'44	2°10'16
max. Earth dist.	-8501 Feb 08 j 04:09	16°♐51'12	30.82571 AU
morning rise	-8501 Feb 23 j 18:16	17°♐25'51	
retrograde	-8501 May 25 j 16:39	19°♐23'52	
opposition	-8501 Aug 12 j 13:12	17°♐58'41	-2°20'27
min. Earth dist.	-8501 Aug 12 j 00:20	17°♐59'36	28.82824 AU
direct	-8501 Oct 29 j 01:01	16°♐34'30	
evening set	-8500 Jan 24 j 23:10	18°♐28'49	
conjunction	-8500 Feb 10 j 02:59	19°♐04'43	-2°12'47
minimum elong	-8500 Feb 10 j 02:59	19°♐04'43	2°13'19
max. Earth dist.	-8500 Feb 10 j 16:49	19°♐06'01	30.82760 AU
morning rise	-8500 Feb 26 j 08:55	19°♐40'50	
retrograde	-8500 May 27 j 06:49	21°♐38'47	
opposition	-8500 Aug 13 j 23:58	20°♐13'41	-2°23'35
min. Earth dist.	-8500 Aug 13 j 11:30	20°♐14'35	28.83028 AU
direct	-8500 Oct 30 j 12:29	18°♐49'28	
evening set	-8499 Jan 26 j 13:44	20°♐43'56	
conjunction	-8499 Feb 11 j 17:46	21°♐19'52	-2°15'37
minimum elong	-8499 Feb 11 j 17:45	21°♐19'51	2°16'08
max. Earth dist.	-8499 Feb 12 j 07:07	21°♐21'06	30.82938 AU
morning rise	-8499 Feb 27 j 23:35	21°♐55'58	
retrograde	-8499 May 29 j 18:41	23°♐53'51	
opposition	-8499 Aug 16 j 10:47	22°♐28'50	-2°26'30
min. Earth dist.	-8499 Aug 16 j 00:08	22°♐29'36	28.83193 AU
direct	-8499 Nov 01 j 23:27	21°♐04'35	
evening set	-8498 Jan 29 j 04:23	22°♐59'12	
conjunction	-8498 Feb 14 j 08:33	23°♐35'07	-2°18'14
minimum elong	-8498 Feb 14 j 08:32	23°♐35'07	2°18'47
max. Earth dist.	-8498 Feb 14 j 20:18	23°♐36'13	30.83075 AU
morning rise	-8498 Mar 02 j 14:24	24°♐11'13	
retrograde	-8498 Jun 01 j 08:35	26°♐09'02	
opposition	-8498 Aug 18 j 21:35	24°♐44'05	-2°29'11
min. Earth dist.	-8498 Aug 18 j 11:00	24°♐44'50	28.83294 AU
direct	-8498 Nov 04 j 10:47	23°♐19'46	
evening set	-8497 Jan 31 j 18:55	25°♐14'31	
conjunction	-8497 Feb 16 j 23:11	25°♐50'27	-2°20'39
minimum elong	-8497 Feb 16 j 23:11	25°♐50'27	2°21'11
max. Earth dist.	-8497 Feb 17 j 09:39	25°♐51'25	30.83121 AU
morning rise	-8497 Mar 05 j 05:03	26°♐26'33	
retrograde	-8497 Jun 03 j 19:15	28°♐24'15	
opposition	-8497 Aug 21 j 08:30	26°♐59'22	-2°31'39
min. Earth dist.	-8497 Aug 20 j 23:59	26°♐59'58	28.83310 AU
direct	-8497 Nov 06 j 21:50	25°♐34'59	
evening set	-8496 Feb 03 j 09:34	27°♐29'50	
conjunction	-8496 Feb 19 j 14:05	28°♐05'46	-2°22'51
minimum elong	-8496 Feb 19 j 14:05	28°♐05'46	2°23'24
max. Earth dist.	-8496 Feb 19 j 23:48	28°♐06'41	30.83105 AU
morning rise	-8496 Mar 06 j 19:54	28°♐41'51	
	-8496 Apr 16 j 20:17	0°♑	
retrograde	-8496 Jun 05 j 07:44	0°♑39'27	
	-8496 Jul 25 j 17:38	30°℞♐	
opposition	-8496 Aug 22 j 19:05	29°♐14'36	-2°33'53
min. Earth dist.	-8496 Aug 22 j 10:47	29°♐15'11	28.83261 AU
direct	-8496 Nov 08 j 10:57	27°♐50'07	
evening set	-8495 Feb 05 j 00:23	29°♐45'06	
	-8495 Feb 11 j 18:53	0°♑	
conjunction	-8495 Feb 21 j 04:54	0°♑21'02	-2°24'50
minimum elong	-8495 Feb 21 j 04:53	0°♑21'02	2°25'23
max. Earth dist.	-8495 Feb 21 j 12:41	0°♑21'45	30.83035 AU
morning rise	-8495 Mar 09 j 10:47	0°♑57'06	
retrograde	-8495 Jun 07 j 19:56	2°♑54'34	
opposition	-8495 Aug 25 j 05:49	1°♑29'45	-2°35'54
min. Earth dist.	-8495 Aug 24 j 23:14	1°♑30'13	28.83201 AU
direct	-8495 Nov 10 j 21:54	0°♑05'11	
evening set	-8494 Feb 07 j 14:52	2°♑00'16	
conjunction	-8494 Feb 23 j 19:39	2°♑36'12	-2°26'36
minimum elong	-8494 Feb 23 j 19:39	2°♑36'12	2°27'10
max. Earth dist.	-8494 Feb 24 j 03:26	2°♑36'56	30.82979 AU
morning rise	-8494 Mar 12 j 01:20	3°♑12'15	
retrograde	-8494 Jun 10 j 08:09	5°♑09'36	
opposition	-8494 Aug 27 j 16:23	3°♑44'48	-2°37'39
min. Earth dist.	-8494 Aug 27 j 10:07	3°♑45'15	28.83167 AU
direct	-8494 Nov 13 j 11:12	2°♑20'10	
evening set	-8493 Feb 10 j 05:32	4°♑15'20	
conjunction	-8493 Feb 26 j 10:15	4°♑51'16	-2°28'08
minimum elong	-8493 Feb 26 j 10:15	4°♑51'16	2°28'41
max. Earth dist.	-8493 Feb 26 j 16:00	4°♑51'49	30.82983 AU
morning rise	-8493 Mar 14 j 16:03	5°♑27'19	
retrograde	-8493 Jun 12 j 22:06	7°♑24'32	
opposition	-8493 Aug 30 j 02:53	5°♑59'46	-2°39'11
min. Earth dist.	-8493 Aug 29 j 21:28	6°♑00'09	28.83233 AU
direct	-8493 Nov 15 j 23:46	4°♑35'02	
evening set	-8492 Feb 12 j 20:01	6°♑30'20	
conjunction	-8492 Feb 29 j 01:01	7°♑06'16	-2°29'27
minimum elong	-8492 Feb 29 j 01:01	7°♑06'16	2°30'01
max. Earth dist.	-8492 Feb 29 j 07:05	7°♑06'50	30.83095 AU
morning rise	-8492 Mar 16 j 06:37	7°♑42'18	
retrograde	-8492 Jun 14 j 09:25	9°♑39'22	
opposition	-8492 Aug 31 j 13:27	8°♑14'40	-2°40'28
min. Earth dist.	-8492 Aug 31 j 09:00	8°♑14'59	28.83405 AU
direct	-8492 Nov 17 j 12:47	6°♑49'52	
evening set	-8491 Feb 14 j 10:45	8°♑45'17	
conjunction	-8491 Mar 02 j 15:42	9°♑21'13	-2°30'32
minimum elong	-8491 Mar 02 j 15:41	9°♑21'13	2°31'05
max. Earth dist.	-8491 Mar 02 j 19:57	9°♑21'37	30.83340 AU
morning rise	-8491 Mar 18 j 21:21	9°♑57'14	
retrograde	-8491 Jun 16 j 23:29	11°♑54'11	
opposition	-8491 Sep 02 j 23:53	10°♑29'32	-2°41'30
min. Earth dist.	-8491 Sep 02 j 19:33	10°♑29'51	28.83728 AU
direct	-8491 Nov 20 j 00:54	9°♑04'42	
evening set	-8490 Feb 17 j 01:20	11°♑00'13	
conjunction	-8490 Mar 05 j 06:27	11°♑36'10	-2°31'23
minimum elong	-8490 Mar 05 j 06:28	11°♑36'10	2°31'57
max. Earth dist.	-8490 Mar 05 j 10:43	11°♑36'34	30.83725 AU
morning rise	-8490 Mar 21 j 11:54	12°♑12'10	
retrograde	-8490 Jun 19 j 11:35	14°♑09'00	
opposition	-8490 Sep 05 j 10:30	12°♑44'26	-2°42'17
min. Earth dist.	-8490 Sep 05 j 07:36	12°♑44'39	28.84185 AU
direct	-8490 Nov 22 j 12:34	11°♑19'35	
evening set	-8489 Feb 19 j 15:50	13°♑15'12	
conjunction	-8489 Mar 07 j 21:01	13°♑51'10	-2°32'00
minimum elong	-8489 Mar 07 j 21:01	13°♑51'10	2°32'33

Attention, astronomical year style is used: The year -8489 in astronomical counting style is the year 8490 BCE in historical counting style.

max. Earth dist.	-8489 Mar 07 j 23:57	13°♓51'26	30.84255 AU
morning rise	-8489 Mar 24 j 02:30	14°♓27'09	
retrograde	-8489 Jun 22 j 00:55	16°♓23'52	
opposition	-8489 Sep 07 j 20:57	14°♓59'25	-2°42'49
min. Earth dist.	-8489 Sep 07 j 17:53	14°♓59'38	28.84760 AU
direct	-8489 Nov 25 j 00:26	13°♓34'32	
evening set	-8488 Feb 22 j 06:37	15°♓30'17	
conjunction	-8488 Mar 09 j 11:52	16°♓06'15	-2°32'24
minimum elong	-8488 Mar 09 j 11:52	16°♓06'15	2°32'57
max. Earth dist.	-8488 Mar 09 j 13:53	16°♓06'26	30.84860 AU
morning rise	-8488 Mar 25 j 17:13	16°♓42'14	
retrograde	-8488 Jun 23 j 11:25	18°♓38'50	
opposition	-8488 Sep 09 j 07:28	17°♓14'30	-2°43'06
min. Earth dist.	-8488 Sep 09 j 06:24	17°♓14'34	28.85393 AU
direct	-8488 Nov 26 j 11:17	15°♓49'35	
evening set	-8487 Feb 23 j 21:28	17°♓45'28	
conjunction	-8487 Mar 12 j 02:50	18°♓21'26	-2°32'33
minimum elong	-8487 Mar 12 j 02:50	18°♓21'26	2°33'05
max. Earth dist.	-8487 Mar 12 j 03:58	18°♓21'32	30.85503 AU
morning rise	-8487 Mar 28 j 08:03	18°♓57'24	
retrograde	-8487 Jun 26 j 00:12	20°♓53'53	
opposition	-8487 Sep 11 j 18:00	19°♓29'40	-2°43'08
min. Earth dist.	-8487 Sep 11 j 17:11	19°♓29'43	28.86017 AU
direct	-8487 Nov 28 j 23:38	18°♓04'43	
evening set	-8486 Feb 26 j 12:19	20°♓00'44	
conjunction	-8486 Mar 14 j 17:35	20°♓36'41	-2°32'28
minimum elong	-8486 Mar 14 j 17:36	20°♓36'41	2°33'00
max. Earth dist.	-8486 Mar 14 j 16:52	20°♓36'37	30.86094 AU
morning rise	-8486 Mar 30 j 22:45	21°♓12'39	
retrograde	-8486 Jun 28 j 11:42	23°♓09'01	
opposition	-8486 Sep 14 j 04:42	21°♓44'52	-2°42'55
min. Earth dist.	-8486 Sep 14 j 05:43	21°♓44'48	28.86583 AU
direct	-8486 Dec 01 j 09:56	20°♓19'53	
evening set	-8485 Mar 01 j 03:06	22°♓16'00	
conjunction	-8485 Mar 17 j 08:35	22°♓51'57	-2°32'09
minimum elong	-8485 Mar 17 j 08:35	22°♓51'57	2°32'41
max. Earth dist.	-8485 Mar 17 j 07:20	22°♓51'50	30.86614 AU
morning rise	-8485 Apr 02 j 13:31	23°♓27'54	
retrograde	-8485 Jun 30 j 23:00	25°♓24'07	
opposition	-8485 Sep 16 j 15:13	24°♓00'03	-2°42'28
min. Earth dist.	-8485 Sep 16 j 16:59	23°♓59'55	28.87043 AU
direct	-8485 Dec 03 j 23:41	22°♓35'00	
evening set	-8484 Mar 02 j 18:04	24°♓31'12	
conjunction	-8484 Mar 18 j 23:27	25°♓07'09	-2°31'36
minimum elong	-8484 Mar 18 j 23:28	25°♓07'09	2°32'08
max. Earth dist.	-8484 Mar 18 j 19:39	25°♓06'48	30.87029 AU
morning rise	-8484 Apr 04 j 04:27	25°♓43'05	
retrograde	-8484 Jul 02 j 11:48	27°♓39'09	
opposition	-8484 Sep 18 j 01:51	26°♓15'07	-2°41'45
min. Earth dist.	-8484 Sep 18 j 04:51	26°♓14'54	28.87415 AU
direct	-8484 Dec 05 j 12:15	24°♓49'59	
evening set	-8483 Mar 05 j 08:49	26°♓46'16	
conjunction	-8483 Mar 21 j 14:24	27°♓22'13	-2°30'50
minimum elong	-8483 Mar 21 j 14:24	27°♓22'13	2°31'21
max. Earth dist.	-8483 Mar 21 j 10:24	27°♓21'51	30.87356 AU
morning rise	-8483 Apr 06 j 19:05	27°♓58'07	
retrograde	-8483 Jul 04 j 22:47	29°♓54'01	
opposition	-8483 Sep 20 j 12:23	28°♓30'02	-2°40'49
min. Earth dist.	-8483 Sep 20 j 16:47	28°♓29'43	28.87705 AU
direct	-8483 Dec 08 j 01:33	27°♓04'49	
evening set	-8482 Mar 07 j 23:35	29°♓01'09	
conjunction	-8482 Mar 24 j 05:03	29°♓37'06	-2°29'50
minimum elong	-8482 Mar 24 j 05:04	29°♓37'06	2°30'21
max. Earth dist.	-8482 Mar 23 j 22:52	29°♓36'31	30.87643 AU
	-8482 Apr 03 j 11:46	0°♒	
morning rise	-8482 Apr 09 j 09:47	0°♒12'59	
retrograde	-8482 Jul 07 j 12:19	2°♒08'42	
opposition	-8482 Sep 22 j 22:50	0°♒44'44	-2°39'37
min. Earth dist.	-8482 Sep 23 j 03:37	0°♒44'24	28.87991 AU
	-8482 Oct 20 j 12:03	30°♑℞	
direct	-8482 Dec 10 j 14:34	29°♓19'27	
	-8481 Jan 29 j 19:26	0°♒	
evening set	-8481 Mar 10 j 13:59	1°♒15'50	
conjunction	-8481 Mar 26 j 19:38	1°♒51'47	-2°28'37
minimum elong	-8481 Mar 26 j 19:38	1°♒51'47	2°29'07
max. Earth dist.	-8481 Mar 26 j 13:23	1°♒51'12	30.87933 AU
morning rise	-8481 Apr 12 j 00:06	2°♒27'39	
retrograde	-8481 Jul 09 j 23:37	4°♒23'12	
opposition	-8481 Sep 25 j 09:21	2°♒59'16	-2°38'11
min. Earth dist.	-8481 Sep 25 j 15:48	2°♒58'48	28.88298 AU
direct	-8481 Dec 13 j 03:34	1°♒33'54	
evening set	-8480 Mar 12 j 04:33	3°♒30'20	
conjunction	-8480 Mar 28 j 10:08	4°♒06'17	-2°27'10
minimum elong	-8480 Mar 28 j 10:09	4°♒06'17	2°27'39
max. Earth dist.	-8480 Mar 28 j 02:18	4°♒05'33	30.88284 AU
morning rise	-8480 Apr 13 j 14:35	4°♒42'07	
retrograde	-8480 Jul 11 j 12:12	6°♒37'30	
opposition	-8480 Sep 26 j 19:37	5°♒13'37	-2°36'31
min. Earth dist.	-8480 Sep 27 j 01:51	5°♒13'10	28.88688 AU
direct	-8480 Dec 14 j 16:41	3°♒48'11	
evening set	-8479 Mar 14 j 19:02	5°♒44'41	
conjunction	-8479 Mar 31 j 00:38	6°♒20'38	-2°25'30
minimum elong	-8479 Mar 31 j 00:39	6°♒20'38	2°25'58
max. Earth dist.	-8479 Mar 30 j 16:15	6°♒19'51	30.88725 AU
morning rise	-8479 Apr 16 j 04:50	6°♒56'27	
retrograde	-8479 Jul 13 j 22:37	8°♒51'40	
opposition	-8479 Sep 29 j 06:11	7°♒27'51	-2°34'37
min. Earth dist.	-8479 Sep 29 j 14:01	7°♒27'18	28.89196 AU
direct	-8479 Dec 17 j 03:57	6°♒02'23	
evening set	-8478 Mar 17 j 09:12	7°♒58'57	
conjunction	-8478 Apr 02 j 14:49	8°♒34'53	-2°23'36
minimum elong	-8478 Apr 02 j 14:50	8°♒34'53	2°24'05
max. Earth dist.	-8478 Apr 02 j 05:53	8°♒34'03	30.89310 AU
morning rise	-8478 Apr 18 j 18:53	9°♒10'41	
retrograde	-8478 Jul 16 j 10:47	11°♒05'46	
opposition	-8478 Oct 01 j 16:32	9°♒42'02	-2°32'29
min. Earth dist.	-8478 Oct 02 j 00:05	9°♒41'29	28.89840 AU
direct	-8478 Dec 19 j 16:19	8°♒16'31	
evening set	-8477 Mar 19 j 23:32	10°♒13'10	
conjunction	-8477 Apr 05 j 05:04	10°♒49'06	-2°21'30
minimum elong	-8477 Apr 05 j 05:05	10°♒49'06	2°21'58
max. Earth dist.	-8477 Apr 04 j 18:58	10°♒48'10	30.90028 AU
morning rise	-8477 Apr 21 j 09:01	11°♒24'54	
retrograde	-8477 Jul 18 j 21:23	13°♒19'51	
opposition	-8477 Oct 04 j 02:55	11°♒56'13	-2°30'07
min. Earth dist.	-8477 Oct 04 j 11:50	11°♒55'34	28.90626 AU
direct	-8477 Dec 22 j 02:09	10°♒30'42	
evening set	-8476 Mar 21 j 13:48	12°♒27'26	
conjunction	-8476 Apr 06 j 19:27	13°♒03'22	-2°19'11
minimum elong	-8476 Apr 06 j 19:28	13°♒03'22	2°19'38
max. Earth dist.	-8476 Apr 06 j 09:19	13°♒02'25	30.90876 AU
morning rise	-8476 Apr 22 j 23:09	13°♒39'09	

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

	-8476 Jun 05 j 03:28	15°♒	
retrograde	-8476 Jul 20 j 07:55	15°♒33'58	
	-8476 Sep 04 j 09:53	15°℞♒	
opposition	-8476 Oct 05 j 13:20	14°♒10'27	-2°27'31
min. Earth dist.	-8476 Oct 05 j 22:36	14°♒09'48	28.91498 AU
direct	-8476 Dec 23 j 15:29	12°♒44'57	
evening set	-8475 Mar 24 j 04:11	14°♒41'47	
	-8475 Apr 01 j 10:56	15°♒	
conjunction	-8475 Apr 09 j 09:37	15°♒17'43	-2°16'38
minimum elong	-8475 Apr 09 j 09:37	15°♒17'43	2°17'05
max. Earth dist.	-8475 Apr 08 j 21:32	15°♒16'35	30.91781 AU
morning rise	-8475 Apr 25 j 13:14	15°♒53'29	
retrograde	-8475 Jul 22 j 20:00	17°♒48'12	
opposition	-8475 Oct 07 j 23:47	16°♒24'47	-2°24'41
min. Earth dist.	-8475 Oct 08 j 09:59	16°♒24'04	28.92418 AU
	-8475 Dec 19 j 15:38	15°℞♒	
direct	-8475 Dec 26 j 02:54	14°♒59'17	
	-8474 Jan 01 j 15:58	15°♒	
evening set	-8474 Mar 26 j 18:24	16°♒56'13	
conjunction	-8474 Apr 11 j 23:57	17°♒32'09	-2°13'54
minimum elong	-8474 Apr 11 j 23:58	17°♒32'09	2°14'19
max. Earth dist.	-8474 Apr 11 j 11:57	17°♒31'02	30.92698 AU
morning rise	-8474 Apr 28 j 03:12	18°♒07'54	
retrograde	-8474 Jul 25 j 06:50	20°♒02'30	
opposition	-8474 Oct 10 j 10:21	18°♒39'11	-2°21'39
min. Earth dist.	-8474 Oct 10 j 21:51	18°♒38'22	28.93306 AU
direct	-8474 Dec 28 j 15:09	17°♒13'42	
evening set	-8473 Mar 29 j 08:41	19°♒10'41	
conjunction	-8473 Apr 14 j 14:01	19°♒46'37	-2°10'57
minimum elong	-8473 Apr 14 j 14:02	19°♒46'37	2°11'21
max. Earth dist.	-8473 Apr 13 j 23:47	19°♒45'17	30.93563 AU
morning rise	-8473 Apr 30 j 17:16	20°♒22'22	
retrograde	-8473 Jul 27 j 20:10	22°♒16'49	
opposition	-8473 Oct 12 j 20:54	20°♒53'36	-2°18'24
min. Earth dist.	-8473 Oct 13 j 08:51	20°♒52'45	28.94125 AU
direct	-8473 Dec 31 j 04:27	19°♒28'05	
evening set	-8472 Mar 30 j 22:56	21°♒25'08	
conjunction	-8472 Apr 16 j 04:20	22°♒01'03	-2°07'49
minimum elong	-8472 Apr 16 j 04:21	22°♒01'04	2°08'12
max. Earth dist.	-8472 Apr 15 j 13:53	21°♒59'43	30.94330 AU
morning rise	-8472 May 02 j 07:11	22°♒36'47	
retrograde	-8472 Jul 29 j 07:13	24°♒31'06	
opposition	-8472 Oct 14 j 07:32	23°♒07'56	-2°14'56
min. Earth dist.	-8472 Oct 14 j 21:21	23°♒06'58	28.94836 AU
direct	-8471 Jan 01 j 18:10	21°♒42'24	
evening set	-8471 Apr 02 j 13:12	23°♒39'29	
conjunction	-8471 Apr 18 j 18:24	24°♒15'24	-2°04'29
minimum elong	-8471 Apr 18 j 18:25	24°♒15'24	2°04'52
max. Earth dist.	-8471 Apr 18 j 02:04	24°♒13'53	30.95011 AU
morning rise	-8471 May 04 j 21:10	24°♒51'06	
retrograde	-8471 Jul 31 j 19:38	26°♒45'16	
opposition	-8471 Oct 16 j 18:05	25°♒22'09	-2°11'17
min. Earth dist.	-8471 Oct 17 j 07:50	25°♒21'10	28.95466 AU
direct	-8470 Jan 04 j 08:00	23°♒56'34	
evening set	-8470 Apr 05 j 03:05	25°♒53'40	
conjunction	-8470 Apr 21 j 08:15	26°♒29'33	-2°00'59
minimum elong	-8470 Apr 21 j 08:16	26°♒29'34	2°01'20
max. Earth dist.	-8470 Apr 20 j 15:19	26°♒27'59	30.95609 AU
morning rise	-8470 May 07 j 10:41	27°♒05'14	
retrograde	-8470 Aug 03 j 06:18	28°♒59'14	
opposition	-8470 Oct 19 j 04:44	27°♒36'09	-2°07'26
min. Earth dist.	-8470 Oct 19 j 20:19	27°♒35'03	28.96042 AU
direct	-8469 Jan 06 j 20:06	26°♒10'31	
evening set	-8469 Apr 07 j 17:00	28°♒07'37	
conjunction	-8469 Apr 23 j 22:02	28°♒43'30	-1°57'17
minimum elong	-8469 Apr 23 j 22:03	28°♒43'30	1°57'39
max. Earth dist.	-8469 Apr 23 j 04:13	28°♒41'50	30.96188 AU
morning rise	-8469 May 10 j 00:19	29°♒19'09	
	-8469 May 29 j 17:52	0°♓	
retrograde	-8469 Aug 05 j 18:22	1°♓12'58	
	-8469 Oct 15 j 16:16	30°℞♒	
opposition	-8469 Oct 21 j 15:03	29°♒49'55	-2°03'24
min. Earth dist.	-8469 Oct 22 j 06:37	29°♒48'49	28.96605 AU
direct	-8468 Jan 09 j 09:40	28°♒24'13	
	-8468 Mar 30 j 06:12	0°♓	
evening set	-8468 Apr 09 j 06:52	0°♓21'19	
conjunction	-8468 Apr 25 j 11:45	0°♓57'11	-1°53'26
minimum elong	-8468 Apr 25 j 11:46	0°♓57'12	1°53'46
max. Earth dist.	-8468 Apr 24 j 16:51	0°♓55'26	30.96768 AU
morning rise	-8468 May 11 j 13:46	1°♓32'49	
retrograde	-8468 Aug 07 j 03:56	3°♓26'28	
opposition	-8468 Oct 23 j 01:38	2°♓03'27	-1°59'12
min. Earth dist.	-8468 Oct 23 j 18:29	2°♓02'15	28.97215 AU
direct	-8467 Jan 10 j 20:40	0°♓37'41	
evening set	-8467 Apr 11 j 20:25	2°♓34'47	
max. Earth dist.	-8467 Apr 27 j 06:31	3°♓08'54	30.97420 AU
conjunction	-8467 Apr 28 j 01:13	3°♓10'38	-1°49'25
minimum elong	-8467 Apr 28 j 01:14	3°♓10'38	1°49'44
morning rise	-8467 May 14 j 02:53	3°♓46'14	
retrograde	-8467 Aug 09 j 13:13	5°♓39'43	
opposition	-8467 Oct 25 j 12:09	4°♓16'45	-1°54'49
min. Earth dist.	-8467 Oct 26 j 05:03	4°♓15'33	28.97902 AU
direct	-8466 Jan 13 j 10:12	2°♓50'57	
evening set	-8466 Apr 14 j 10:01	4°♓48'02	
conjunction	-8466 Apr 30 j 14:30	5°♓23'53	-1°45'15
minimum elong	-8466 Apr 30 j 14:31	5°♓23'53	1°45'32
max. Earth dist.	-8466 Apr 29 j 18:23	5°♓22'00	30.98177 AU
morning rise	-8466 May 16 j 16:00	5°♓59'27	
retrograde	-8466 Aug 12 j 00:06	7°♓52'48	
opposition	-8466 Oct 27 j 22:37	6°♓29'52	-1°50'16
min. Earth dist.	-8466 Oct 28 j 15:51	6°♓28'39	28.98731 AU
direct	-8465 Jan 15 j 20:43	5°♓04'03	
evening set	-8465 Apr 16 j 23:18	7°♓01'09	
max. Earth dist.	-8465 May 02 j 08:19	7°♓35'09	30.99078 AU
conjunction	-8465 May 03 j 03:47	7°♓36'58	-1°40'54
minimum elong	-8465 May 03 j 03:48	7°♓36'58	1°41'11
morning rise	-8465 May 19 j 04:52	8°♓12'32	
retrograde	-8465 Aug 14 j 09:42	10°♓05'45	
opposition	-8465 Oct 30 j 09:13	8°♓42'53	-1°45'33
min. Earth dist.	-8465 Oct 31 j 03:11	8°♓41'37	28.99683 AU
direct	-8464 Jan 18 j 08:52	7°♓17'04	
evening set	-8464 Apr 18 j 12:48	9°♓14'11	
conjunction	-8464 May 04 j 16:54	9°♓50'00	-1°36'25
minimum elong	-8464 May 04 j 16:55	9°♓50'00	1°36'40
max. Earth dist.	-8464 May 03 j 19:56	9°♓48'02	31.00108 AU
morning rise	-8464 May 20 j 17:50	10°♓25'32	
retrograde	-8464 Aug 15 j 21:39	12°♓18'38	
opposition	-8464 Oct 31 j 19:41	10°♓55'52	-1°40'40
min. Earth dist.	-8464 Nov 01 j 13:27	10°♓54'36	29.00762 AU
direct	-8463 Jan 19 j 21:26	9°♓30'04	
evening set	-8463 Apr 21 j 02:05	11°♓27'14	
max. Earth dist.	-8463 May 06 j 09:45	12°♓01'08	31.01233 AU

Attention, astronomical year style is used: The year -8463 in astronomical counting style is the year 8464 BCE in historical counting style.

conjunction	-8463 May 07 j 06:07	12°♓03'02	-1°31'48
minimum elong	-8463 May 07 j 06:08	12°♓03'02	1°32'02
morning rise	-8463 May 23 j 06:33	12°♓38'32	
retrograde	-8463 Aug 18 j 08:01	14°♓31'34	
opposition	-8463 Nov 03 j 06:27	13°♓08'52	-1°35'39
min. Earth dist.	-8463 Nov 04 j 01:35	13°♓07'32	29.01908 AU
direct	-8462 Jan 22 j 10:06	11°♓43'08	
evening set	-8462 Apr 23 j 15:18	13°♓40'20	
conjunction	-8462 May 09 j 18:57	14°♓16'07	-1°27'02
minimum elong	-8462 May 09 j 18:58	14°♓16'07	1°27'14
max. Earth dist.	-8462 May 08 j 21:16	14°♓14'06	31.02404 AU
morning rise	-8462 May 25 j 19:13	14°♓51'36	
retrograde	-8462 Aug 20 j 20:24	16°♓44'32	
opposition	-8462 Nov 05 j 17:06	15°♓21'57	-1°30'29
min. Earth dist.	-8462 Nov 06 j 11:50	15°♓20'38	29.03064 AU
direct	-8461 Jan 24 j 23:15	13°♓56'16	
evening set	-8461 Apr 26 j 04:33	15°♓53'30	
max. Earth dist.	-8461 May 11 j 10:04	16°♓27'13	31.03536 AU
conjunction	-8461 May 12 j 08:02	16°♓29'15	-1°22'08
minimum elong	-8461 May 12 j 08:03	16°♓29'15	1°22'19
morning rise	-8461 May 28 j 07:49	17°♓04'43	
retrograde	-8461 Aug 23 j 07:22	18°♓57'34	
opposition	-8461 Nov 08 j 03:51	17°♓35'05	-1°25'11
min. Earth dist.	-8461 Nov 09 j 00:20	17°♓33'38	29.04161 AU
direct	-8460 Jan 27 j 11:23	16°♓09'25	
evening set	-8460 Apr 27 j 17:53	18°♓06'41	
conjunction	-8460 May 13 j 21:01	18°♓42'25	-1°17'07
minimum elong	-8460 May 13 j 21:02	18°♓42'25	1°17'17
max. Earth dist.	-8460 May 12 j 22:08	18°♓40'18	31.04597 AU
morning rise	-8460 May 29 j 20:30	19°♓17'51	
retrograde	-8460 Aug 24 j 19:36	21°♓10'37	
opposition	-8460 Nov 09 j 14:43	19°♓48'12	-1°19'45
min. Earth dist.	-8460 Nov 10 j 11:06	19°♓46'47	29.05155 AU
direct	-8459 Jan 29 j 01:24	18°♓22'34	
evening set	-8459 Apr 30 j 07:03	20°♓19'50	
max. Earth dist.	-8459 May 15 j 09:58	20°♓53'20	31.05537 AU
conjunction	-8459 May 16 j 09:50	20°♓55'34	-1°11'59
minimum elong	-8459 May 16 j 09:50	20°♓55'34	1°12'09
morning rise	-8459 Jun 01 j 08:53	21°♓30'58	
retrograde	-8459 Aug 27 j 05:29	23°♓23'39	
opposition	-8459 Nov 12 j 01:41	22°♓01'17	-1°14'13
min. Earth dist.	-8459 Nov 12 j 23:23	21°♓59'46	29.06046 AU
direct	-8458 Jan 31 j 12:46	20°♓35'40	
evening set	-8458 May 02 j 20:05	22°♓32'55	
conjunction	-8458 May 18 j 22:37	23°♓08'37	-1°06'45
minimum elong	-8458 May 18 j 22:38	23°♓08'37	1°06'53
max. Earth dist.	-8458 May 17 j 22:43	23°♓06'24	31.06383 AU
morning rise	-8458 Jun 03 j 21:15	23°♓44'00	
retrograde	-8458 Aug 29 j 14:48	25°♓36'34	
opposition	-8458 Nov 14 j 12:29	24°♓14'15	-1°08'35
min. Earth dist.	-8458 Nov 15 j 10:30	24°♓12'43	29.06831 AU
direct	-8457 Feb 03 j 02:16	22°♓48'38	
evening set	-8457 May 05 j 09:05	24°♓45'52	
max. Earth dist.	-8457 May 20 j 09:44	25°♓19'10	31.07136 AU
conjunction	-8457 May 21 j 11:11	25°♓21'32	-1°01'26
minimum elong	-8457 May 21 j 11:12	25°♓21'32	1°01'33
morning rise	-8457 Jun 06 j 09:31	25°♓56'53	
retrograde	-8457 Sep 01 j 01:31	27°♓49'21	
opposition	-8457 Nov 16 j 23:21	26°♓27'04	-1°02'51
min. Earth dist.	-8457 Nov 17 j 21:50	26°♓25'30	29.07556 AU
direct	-8456 Feb 05 j 12:51	25°♓01'25	
evening set	-8456 May 06 j 21:50	26°♓58'38	
conjunction	-8456 May 22 j 23:42	27°♓34'17	-0°56'02
minimum elong	-8456 May 22 j 23:43	27°♓34'17	0°56'06
max. Earth dist.	-8456 May 21 j 22:52	27°♓31'58	31.07841 AU
morning rise	-8456 Jun 07 j 21:27	28°♓09'36	
	-8456 Aug 22 j 21:46	0°♈	
retrograde	-8456 Sep 02 j 10:17	0°♈01'57	
	-8456 Sep 13 j 03:10	30°℞♓	
opposition	-8456 Nov 18 j 10:17	28°♓39'42	-0°57'02
min. Earth dist.	-8456 Nov 19 j 09:36	28°♓38'04	29.08241 AU
direct	-8455 Feb 07 j 01:22	27°♓14'03	
evening set	-8455 May 09 j 10:35	29°♓11'13	
max. Earth dist.	-8455 May 24 j 09:44	29°♓44'23	31.08546 AU
conjunction	-8455 May 25 j 11:53	29°♓46'50	-0°50'33
minimum elong	-8455 May 25 j 11:54	29°♓46'50	0°50'37
	-8455 May 31 j 09:13	0°♈	
morning rise	-8455 Jun 10 j 09:22	0°♈22'07	
retrograde	-8455 Sep 04 j 21:13	2°♈14'23	
opposition	-8455 Nov 20 j 21:11	0°♈52'08	-0°51'08
min. Earth dist.	-8455 Nov 21 j 20:01	0°♈50'33	29.08968 AU
	-8455 Dec 24 j 09:49	30°℞♓	
direct	-8454 Feb 09 j 13:46	29°♓26'28	
	-8454 Mar 27 j 20:09	0°♈	
evening set	-8454 May 11 j 22:53	1°♈23'36	
conjunction	-8454 May 27 j 23:56	1°♈59'11	-0°45'00
minimum elong	-8454 May 27 j 23:56	1°♈59'11	0°45'02
max. Earth dist.	-8454 May 26 j 22:47	1°♈56'51	31.09300 AU
morning rise	-8454 Jun 12 j 20:48	2°♈34'26	
retrograde	-8454 Sep 07 j 06:30	4°♈26'38	
opposition	-8454 Nov 23 j 08:13	3°♈04'24	-0°45'10
min. Earth dist.	-8454 Nov 24 j 08:02	3°♈02'44	29.09759 AU
direct	-8453 Feb 12 j 02:00	1°♈38'44	
evening set	-8453 May 14 j 11:22	3°♈35'51	
max. Earth dist.	-8453 May 29 j 09:51	4°♈08'59	31.10149 AU
conjunction	-8453 May 30 j 11:51	4°♈11'24	-0°39'24
minimum elong	-8453 May 30 j 11:51	4°♈11'24	0°39'26
morning rise	-8453 Jun 15 j 08:23	4°♈46'37	
retrograde	-8453 Sep 09 j 18:01	6°♈38'44	
opposition	-8453 Nov 25 j 19:00	5°♈16'33	-0°39'08
min. Earth dist.	-8453 Nov 26 j 17:49	5°♈14'57	29.10654 AU
direct	-8452 Feb 14 j 14:38	3°♈50'54	
evening set	-8452 May 15 j 23:43	5°♈48'01	
conjunction	-8452 May 31 j 23:50	6°♈23'31	-0°33'44
minimum elong	-8452 May 31 j 23:50	6°♈23'31	0°33'44
max. Earth dist.	-8452 May 30 j 22:19	6°♈21'09	31.11098 AU
morning rise	-8452 Jun 16 j 19:44	6°♈58'42	
retrograde	-8452 Sep 11 j 04:54	8°♈50'46	
opposition	-8452 Nov 27 j 06:09	7°♈28'38	-0°33'03
min. Earth dist.	-8452 Nov 28 j 05:57	7°♈26'59	29.11655 AU
direct	-8451 Feb 16 j 03:25	6°♈03'03	
evening set	-8451 May 18 j 11:54	8°♈00'08	
max. Earth dist.	-8451 Jun 02 j 09:53	8°♈33'14	31.12151 AU
conjunction	-8451 Jun 03 j 11:28	8°♈35'37	-0°28'01
minimum elong	-8451 Jun 03 j 11:29	8°♈35'37	0°28'00
morning rise	-8451 Jun 19 j 06:58	9°♈10'45	
retrograde	-8451 Sep 13 j 16:45	11°♈02'47	
opposition	-8451 Nov 29 j 17:13	9°♈40'43	-0°26'55
min. Earth dist.	-8451 Nov 30 j 16:16	9°♈39'07	29.12726 AU
direct	-8450 Feb 18 j 17:40	8°♈15'11	
evening set	-8450 May 21 j 00:07	10°♈12'17	

Attention, astronomical year style is used: The year -8450 in astronomical counting style is the year 8451 BCE in historical counting style.

conjunction	-8450 Jun	05 j 23:11	10°♈47'44	-0°22'15
minimum elong	-8450 Jun	05 j 23:11	10°♈47'44	0°22'13
max. Earth dist.	-8450 Jun	04 j 21:18	10°♈45'19	31.13241 AU
morning rise	-8450 Jun	21 j 18:09	11°♈22'50	
retrograde	-8450 Sep	16 j 02:48	13°♈14'51	
opposition	-8450 Dec	02 j 04:16	11°♈52'50	-0°20'44
min. Earth dist.	-8450 Dec	03 j 04:12	11°♈51'11	29.13827 AU
direct	-8449 Feb	21 j 04:47	10°♈27'22	
evening set	-8449 May	23 j 12:15	12°♈24'28	
max. Earth dist.	-8449 Jun	07 j 09:27	12°♈57'31	31.14325 AU
conjunction	-8449 Jun	08 j 10:54	12°♈59'53	-0°16'28
minimum elong	-8449 Jun	08 j 10:54	12°♈59'53	0°16'25
morning rise	-8449 Jun	24 j 05:18	13°♈34'57	
retrograde	-8449 Sep	18 j 12:36	15°♈26'55	
opposition	-8449 Dec	04 j 15:31	14°♈04'59	-0°14'32
min. Earth dist.	-8449 Dec	05 j 15:28	14°♈03'20	29.14866 AU
direct	-8448 Feb	23 j 18:32	12°♈39'35	
evening set	-8448 May	25 j 00:28	14°♈36'39	
conjunction	-8448 Jun	09 j 22:24	15°♈12'02	-0°10'40
minimum elong	-8448 Jun	09 j 22:24	15°♈12'02	0°10'34
behind sun begin	-8448 Jun	09 j 17:22	15°♈11'35	
behind sun end	-8448 Jun	10 j 03:27	15°♈12'29	
max. Earth dist.	-8448 Jun	08 j 19:47	15°♈09'33	31.15319 AU
morning rise	-8448 Jun	25 j 16:20	15°♈47'04	
retrograde	-8448 Sep	19 j 23:44	17°♈39'01	
opposition	-8448 Dec	06 j 02:52	16°♈17'08	-0°08'19
min. Earth dist.	-8448 Dec	07 j 03:00	16°♈15'27	29.15816 AU
direct	-8447 Feb	25 j 05:36	14°♈51'45	
evening set	-8447 May	27 j 12:30	16°♈48'48	
max. Earth dist.	-8447 Jun	11 j 08:08	17°♈21'44	31.16205 AU
conjunction	-8447 Jun	12 j 10:02	17°♈24'09	-0°04'52
minimum elong	-8447 Jun	12 j 10:02	17°♈24'09	0°04'46
behind sun begin	-8447 Jun	12 j 03:41	17°♈23'35	
behind sun end	-8447 Jun	12 j 16:22	17°♈24'43	
morning rise	-8447 Jun	28 j 03:15	17°♈59'08	
retrograde	-8447 Sep	22 j 08:19	19°♈51'04	
opposition	-8447 Dec	08 j 14:21	18°♈29'12	-0°02'05
min. Earth dist.	-8447 Dec	09 j 15:14	18°♈27'29	29.16634 AU
direct	-8446 Feb	27 j 18:31	17°♈03'52	
asc. node	-8446 Apr	09 j 11:50	17°♈30'02	
evening set	-8446 May	30 j 00:27	19°♈00'52	
conjunction	-8446 Jun	14 j 21:14	19°♈36'10	0°01'05
minimum elong	-8446 Jun	14 j 21:16	19°♈36'10	0°01'13
behind sun begin	-8446 Jun	14 j 14:46	19°♈35'35	
behind sun end	-8446 Jun	15 j 03:45	19°♈36'44	
max. Earth dist.	-8446 Jun	13 j 18:01	19°♈33'37	31.16961 AU
morning rise	-8446 Jun	30 j 14:07	20°♈11'07	
retrograde	-8446 Sep	24 j 18:46	22°♈03'01	
opposition	-8446 Dec	11 j 01:42	20°♈41'10	0°04'09
min. Earth dist.	-8446 Dec	12 j 02:10	20°♈39'28	29.17325 AU
direct	-8445 Mar	02 j 06:08	19°♈15'50	
evening set	-8445 Jun	01 j 12:15	21°♈12'47	
max. Earth dist.	-8445 Jun	16 j 06:12	21°♈45'34	31.17584 AU
conjunction	-8445 Jun	17 j 08:39	21°♈48'03	0°06'55
minimum elong	-8445 Jun	17 j 08:39	21°♈48'02	0°07'03
behind sun begin	-8445 Jun	17 j 02:39	21°♈47'30	
behind sun end	-8445 Jun	17 j 14:39	21°♈48'35	
morning rise	-8445 Jul	03 j 00:45	22°♈22'57	
retrograde	-8445 Sep	27 j 03:44	24°♈14'49	
opposition	-8445 Dec	13 j 13:09	22°♈52'57	0°10'22
min. Earth dist.	-8445 Dec	14 j 14:47	22°♈51'11	29.17893 AU
direct	-8444 Mar	03 j 17:51	21°♈27'38	
evening set	-8444 Jun	03 j 00:06	23°♈24'32	
conjunction	-8444 Jun	18 j 19:45	23°♈59'44	0°12'42
minimum elong	-8444 Jun	18 j 19:45	23°♈59'44	0°12'52
behind sun begin	-8444 Jun	18 j 15:45	23°♈59'22	
behind sun end	-8444 Jun	18 j 23:45	24°♈00'05	
max. Earth dist.	-8444 Jun	17 j 16:30	23°♈57'11	31.18115 AU
morning rise	-8444 Jul	04 j 11:26	24°♈34'36	
retrograde	-8444 Sep	28 j 14:51	26°♈26'26	
opposition	-8444 Dec	15 j 00:36	25°♈04'34	0°16'34
min. Earth dist.	-8444 Dec	16 j 01:12	25°♈02'52	29.18387 AU
direct	-8443 Mar	06 j 06:33	23°♈39'14	
evening set	-8443 Jun	05 j 11:30	25°♈36'04	
max. Earth dist.	-8443 Jun	20 j 04:00	26°♈08'44	31.18583 AU
conjunction	-8443 Jun	21 j 06:38	26°♈11'14	0°18'28
minimum elong	-8443 Jun	21 j 06:38	26°♈11'14	0°18'39
morning rise	-8443 Jul	06 j 21:37	26°♈46'03	
retrograde	-8443 Oct	01 j 01:10	28°♈37'52	
opposition	-8443 Dec	17 j 12:12	27°♈15'58	0°22'43
min. Earth dist.	-8443 Dec	18 j 13:39	27°♈14'13	29.18859 AU
direct	-8442 Mar	08 j 19:18	25°♈50'39	
evening set	-8442 Jun	07 j 22:55	27°♈47'25	
conjunction	-8442 Jun	23 j 17:23	28°♈22'32	0°24'13
minimum elong	-8442 Jun	23 j 17:23	28°♈22'32	0°24'25
max. Earth dist.	-8442 Jun	22 j 14:57	28°♈20'03	31.19065 AU
morning rise	-8442 Jul	09 j 07:51	28°♈57'18	
	-8442 Aug	09 j 23:07	0°♉	
retrograde	-8442 Oct	03 j 12:11	0°♉49'06	
	-8442 Nov	29 j 12:30	30°℞♈	
opposition	-8442 Dec	19 j 23:30	29°♈27'11	0°28'51
min. Earth dist.	-8442 Dec	20 j 23:55	29°♈25'31	29.19357 AU
direct	-8441 Mar	11 j 09:22	28°♈01'52	
evening set	-8441 Jun	10 j 10:15	29°♈58'36	
	-8441 Jun	11 j 01:32	0°♉	
max. Earth dist.	-8441 Jun	25 j 01:44	0°♉31'12	31.19591 AU
conjunction	-8441 Jun	26 j 04:03	0°♉33'40	0°29'55
minimum elong	-8441 Jun	26 j 04:03	0°♉33'40	0°30'08
morning rise	-8441 Jul	11 j 17:54	1°♉08'24	
retrograde	-8441 Oct	05 j 22:11	3°♉00'13	
opposition	-8441 Dec	22 j 11:06	1°♉38'17	0°34'55
min. Earth dist.	-8441 Dec	23 j 11:42	1°♉36'36	29.19939 AU
direct	-8440 Mar	12 j 20:41	0°♉13'00	
evening set	-8440 Jun	11 j 21:22	2°♉09'42	
conjunction	-8440 Jun	27 j 14:34	2°♉44'43	0°35'34
minimum elong	-8440 Jun	27 j 14:34	2°♉44'43	0°35'49
max. Earth dist.	-8440 Jun	26 j 13:29	2°♉42'22	31.20220 AU
morning rise	-8440 Jul	13 j 03:44	3°♉19'24	
retrograde	-8440 Oct	07 j 07:41	5°♉11'14	
opposition	-8440 Dec	23 j 22:44	3°♉49'20	0°40'57
min. Earth dist.	-8440 Dec	24 j 22:33	3°♉47'42	29.20613 AU
direct	-8439 Mar	15 j 10:44	2°♉24'06	
evening set	-8439 Jun	14 j 08:33	4°♉20'46	
max. Earth dist.	-8439 Jun	28 j 23:29	4°♉53'22	31.20947 AU
conjunction	-8439 Jun	30 j 00:58	4°♉55'45	0°41'11
minimum elong	-8439 Jun	30 j 00:58	4°♉55'45	0°41'26
morning rise	-8439 Jul	15 j 13:38	5°♉30'23	
retrograde	-8439 Oct	09 j 18:58	7°♉22'16	
opposition	-8439 Dec	26 j 10:18	6°♉00'24	0°46'54
min. Earth dist.	-8439 Dec	27 j 09:30	5°♉58'48	29.21398 AU
direct	-8438 Mar	17 j 21:46	4°♉35'15	
evening set	-8438 Jun	16 j 19:24	6°♉31'54	
max. Earth dist.	-8438 Jul	01 j 11:22	7°♉04'35	31.21758 AU

Attention, astronomical year style is used: The year -8438 in astronomical counting style is the year 8439 BCE in historical counting style.

conjunction	-8438 Jul 02 j 11:21	7°♉06'49	0°46'44
minimum elong	-8438 Jul 02 j 11:20	7°♉06'49	0°47'01
morning rise	-8438 Jul 17 j 23:17	7°♉41'26	
retrograde	-8438 Oct 12 j 03:26	9°♉33'21	
opposition	-8438 Dec 28 j 22:02	8°♉11'32	0°52'48
min. Earth dist.	-8438 Dec 29 j 21:25	8°♉09'56	29.22219 AU
direct	-8437 Mar 20 j 10:28	6°♉46'29	
evening set	-8437 Jun 19 j 06:30	8°♉43'06	
conjunction	-8437 Jul 04 j 21:34	9°♉17'59	0°52'12
minimum elong	-8437 Jul 04 j 21:34	9°♉17'59	0°52'30
max. Earth dist.	-8437 Jul 03 j 20:54	9°♉15'41	31.22583 AU
morning rise	-8437 Jul 20 j 09:02	9°♉52'34	
retrograde	-8437 Oct 14 j 13:47	11°♉44'33	
opposition	-8437 Dec 31 j 09:42	10°♉22'47	0°58'37
min. Earth dist.	-8436 Jan 01 j 08:08	10°♉21'15	29.23040 AU
direct	-8436 Mar 21 j 21:13	8°♉57'47	
evening set	-8436 Jun 20 j 17:26	10°♉54'24	
max. Earth dist.	-8436 Jul 05 j 08:35	11°♉27'03	31.23368 AU
conjunction	-8436 Jul 06 j 07:58	11°♉29'15	0°57'37
minimum elong	-8436 Jul 06 j 07:57	11°♉29'15	0°57'57
morning rise	-8436 Jul 21 j 18:38	12°♉03'47	
retrograde	-8436 Oct 15 j 23:09	13°♉55'50	
opposition	-8435 Jan 01 j 21:46	12°♉34'05	1°04'22
min. Earth dist.	-8435 Jan 02 j 20:57	12°♉32'31	29.23794 AU
direct	-8435 Mar 24 j 07:53	11°♉09'11	
evening set	-8435 Jun 23 j 04:19	13°♉05'46	
conjunction	-8435 Jul 08 j 18:01	13°♉40'33	1°02'56
minimum elong	-8435 Jul 08 j 18:01	13°♉40'33	1°03'15
max. Earth dist.	-8435 Jul 07 j 18:14	13°♉38'19	31.24073 AU
morning rise	-8435 Jul 24 j 04:13	14°♉15'03	
	-8435 Aug 14 j 21:12	15°♉	
retrograde	-8435 Oct 18 j 10:20	16°♉07'10	
	-8435 Dec 26 j 10:52	15°℞♉	
opposition	-8434 Jan 04 j 09:41	14°♉45'26	1°10'00
min. Earth dist.	-8434 Jan 05 j 07:38	14°♉43'57	29.24445 AU
direct	-8434 Mar 26 j 19:55	13°♉20'35	
	-8434 Jun 17 j 16:28	15°♉	
evening set	-8434 Jun 25 j 15:11	15°♉17'07	
max. Earth dist.	-8434 Jul 10 j 04:59	15°♉49'41	31.24648 AU
conjunction	-8434 Jul 11 j 04:18	15°♉51'52	1°08'10
minimum elong	-8434 Jul 11 j 04:17	15°♉51'52	1°08'31
morning rise	-8434 Jul 26 j 13:46	16°♉26'19	
retrograde	-8434 Oct 20 j 21:01	18°♉18'30	
opposition	-8433 Jan 06 j 21:38	16°♉56'45	1°15'32
min. Earth dist.	-8433 Jan 07 j 20:27	16°♉55'12	29.24968 AU
direct	-8433 Mar 29 j 07:49	15°♉31'57	
evening set	-8433 Jun 28 j 02:02	17°♉28'26	
conjunction	-8433 Jul 13 j 14:26	18°♉03'07	1°13'18
minimum elong	-8433 Jul 13 j 14:25	18°♉03'07	1°13'39
max. Earth dist.	-8433 Jul 12 j 15:18	18°♉00'57	31.25104 AU
morning rise	-8433 Jul 28 j 23:20	18°♉37'31	
retrograde	-8433 Oct 23 j 08:09	20°♉29'45	
opposition	-8432 Jan 09 j 09:41	19°♉07'59	1°20'58
min. Earth dist.	-8432 Jan 10 j 07:29	19°♉06'30	29.25356 AU
direct	-8432 Mar 30 j 21:01	17°♉43'12	
evening set	-8432 Jun 29 j 12:41	19°♉39'37	
max. Earth dist.	-8432 Jul 14 j 01:11	20°♉12'04	31.25428 AU
conjunction	-8432 Jul 15 j 00:21	20°♉14'15	1°18'19
minimum elong	-8432 Jul 15 j 00:21	20°♉14'15	1°18'42
morning rise	-8432 Jul 30 j 08:41	20°♉48'37	
retrograde	-8432 Oct 24 j 18:42	22°♉40'53	
opposition	-8431 Jan 10 j 21:51	21°♉19'04	1°26'16
min. Earth dist.	-8431 Jan 11 j 19:54	21°♉17'34	29.25647 AU
direct	-8431 Apr 02 j 08:30	19°♉54'18	
evening set	-8431 Jul 01 j 23:10	21°♉50'38	
conjunction	-8431 Jul 17 j 10:15	22°♉25'13	1°23'13
minimum elong	-8431 Jul 17 j 10:14	22°♉25'12	1°23'36
max. Earth dist.	-8431 Jul 16 j 12:20	22°♉23'09	31.25677 AU
morning rise	-8431 Aug 01 j 17:55	22°♉59'31	
retrograde	-8431 Oct 27 j 04:43	24°♉51'50	
opposition	-8430 Jan 13 j 09:52	23°♉29'58	1°31'26
min. Earth dist.	-8430 Jan 14 j 07:14	23°♉28'31	29.25871 AU
direct	-8430 Apr 04 j 23:10	22°♉05'12	
evening set	-8430 Jul 04 j 09:32	24°♉01'26	
conjunction	-8430 Jul 19 j 19:51	24°♉35'58	1°27'59
minimum elong	-8430 Jul 19 j 19:50	24°♉35'58	1°28'25
max. Earth dist.	-8430 Jul 18 j 21:34	24°♉33'53	31.25887 AU
morning rise	-8430 Aug 04 j 03:06	25°♉10'14	
retrograde	-8430 Oct 29 j 16:04	27°♉02'35	
opposition	-8429 Jan 15 j 21:57	25°♉40'39	1°36'29
min. Earth dist.	-8429 Jan 16 j 18:31	25°♉39'16	29.26097 AU
direct	-8429 Apr 07 j 11:12	24°♉15'54	
evening set	-8429 Jul 06 j 19:41	26°♉12'04	
max. Earth dist.	-8429 Jul 21 j 09:00	26°♉44'37	31.26116 AU
conjunction	-8429 Jul 22 j 05:27	26°♉46'32	1°32'38
minimum elong	-8429 Jul 22 j 05:27	26°♉46'32	1°33'04
morning rise	-8429 Aug 06 j 11:57	27°♉20'46	
retrograde	-8429 Nov 01 j 00:05	29°♉13'10	
opposition	-8428 Jan 18 j 10:07	27°♉51'11	1°41'23
min. Earth dist.	-8428 Jan 19 j 06:23	27°♉49'49	29.26359 AU
direct	-8428 Apr 09 j 00:17	26°♉26'27	
evening set	-8428 Jul 08 j 05:56	28°♉22'32	
conjunction	-8428 Jul 23 j 14:52	28°♉56'58	1°37'09
minimum elong	-8428 Jul 23 j 14:51	28°♉56'58	1°37'36
max. Earth dist.	-8428 Jul 22 j 18:17	28°♉55'01	31.26424 AU
morning rise	-8428 Aug 07 j 20:58	29°♉31'09	
	-8428 Aug 21 j 09:35	0°♊	
retrograde	-8428 Nov 02 j 10:19	1°♊23'37	
opposition	-8427 Jan 19 j 22:19	0°♊01'37	1°46'08
	-8427 Jan 20 j 22:01	30°℞♉	
min. Earth dist.	-8427 Jan 20 j 16:53	0°♊00'21	29.26729 AU
direct	-8427 Apr 11 j 11:44	28°♉36'55	
	-8427 Jun 25 j 02:14	0°♊	
evening set	-8427 Jul 10 j 15:50	0°♊32'56	
max. Earth dist.	-8427 Jul 25 j 05:34	1°♊05'33	31.26833 AU
conjunction	-8427 Jul 26 j 00:16	1°♊07'19	1°41'32
minimum elong	-8427 Jul 26 j 00:15	1°♊07'19	1°41'58
morning rise	-8427 Aug 10 j 05:41	1°♊41'28	
retrograde	-8427 Nov 04 j 19:34	3°♊34'02	
opposition	-8426 Jan 22 j 10:39	2°♊12'01	1°50'44
min. Earth dist.	-8426 Jan 23 j 05:17	2°♊10'45	29.27193 AU
direct	-8426 Apr 13 j 22:49	0°♊47'24	
evening set	-8426 Jul 13 j 01:54	2°♊43'21	
conjunction	-8426 Jul 28 j 09:36	3°♊17'42	1°45'46
minimum elong	-8426 Jul 28 j 09:36	3°♊17'41	1°46'14
max. Earth dist.	-8426 Jul 27 j 15:11	3°♊15'57	31.27341 AU
morning rise	-8426 Aug 12 j 14:37	3°♊51'49	
retrograde	-8426 Nov 07 j 06:21	5°♊44'28	
opposition	-8425 Jan 24 j 22:42	4°♊22'28	1°55'10
min. Earth dist.	-8425 Jan 25 j 15:29	4°♊21'20	29.27733 AU
direct	-8425 Apr 16 j 10:15	2°♊57'56	
evening set	-8425 Jul 15 j 11:53	4°♊53'52	

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

conjunction	-8425 Jul 30 j 19:00	5°♊28'10	1°49'51
minimum elong	-8425 Jul 30 j 19:00	5°♊28'10	1°50'18
max. Earth dist.	-8425 Jul 30 j 01:37	5°♊26'31	31.27889 AU
morning rise	-8425 Aug 14 j 23:26	6°♊02'15	
retrograde	-8425 Nov 09 j 17:16	7°♊55'02	
opposition	-8424 Jan 27 j 11:12	6°♊33'03	1°59'27
min. Earth dist.	-8424 Jan 28 j 04:14	6°♊31'54	29.28299 AU
direct	-8424 Apr 17 j 20:46	5°♊08'38	
evening set	-8424 Jul 16 j 21:45	7°♊04'30	
max. Earth dist.	-8424 Jul 31 j 11:47	7°♊37'13	31.28442 AU
conjunction	-8424 Aug 01 j 04:15	7°♊38'46	1°53'46
minimum elong	-8424 Aug 01 j 04:14	7°♊38'46	1°54'16
morning rise	-8424 Aug 16 j 08:10	8°♊12'49	
retrograde	-8424 Nov 11 j 04:37	10°♊05'44	
opposition	-8423 Jan 28 j 23:42	8°♊43'46	2°03'34
min. Earth dist.	-8423 Jan 29 j 15:17	8°♊42'43	29.28825 AU
direct	-8423 Apr 20 j 08:38	7°♊19'26	
evening set	-8423 Jul 19 j 07:45	9°♊15'17	
conjunction	-8423 Aug 03 j 13:35	9°♊49'30	1°57'32
minimum elong	-8423 Aug 03 j 13:34	9°♊49'30	1°58'01
max. Earth dist.	-8423 Aug 02 j 21:15	9°♊47'58	31.28922 AU
morning rise	-8423 Aug 18 j 17:05	10°♊23'32	
retrograde	-8423 Nov 13 j 16:15	12°♊16'35	
opposition	-8422 Jan 31 j 12:14	10°♊54'37	2°07'29
min. Earth dist.	-8422 Feb 01 j 03:53	10°♊53'33	29.29276 AU
direct	-8422 Apr 22 j 19:15	9°♊30'22	
evening set	-8422 Jul 21 j 17:37	11°♊26'11	
conjunction	-8422 Aug 05 j 23:00	12°♊00'22	2°01'07
minimum elong	-8422 Aug 05 j 22:59	12°♊00'22	2°01'38
max. Earth dist.	-8422 Aug 05 j 08:01	11°♊58'57	31.29303 AU
morning rise	-8422 Aug 21 j 01:56	12°♊34'21	
retrograde	-8422 Nov 16 j 03:15	14°♊27'32	
opposition	-8421 Feb 03 j 00:52	13°♊05'33	2°11'14
min. Earth dist.	-8421 Feb 03 j 15:48	13°♊04'33	29.29585 AU
direct	-8421 Apr 25 j 09:13	11°♊41'23	
evening set	-8421 Jul 24 j 03:35	13°♊37'09	
conjunction	-8421 Aug 08 j 08:14	14°♊11'17	2°04'32
minimum elong	-8421 Aug 08 j 08:13	14°♊11'17	2°05'02
max. Earth dist.	-8421 Aug 07 j 16:44	14°♊09'50	31.29533 AU
morning rise	-8421 Aug 23 j 10:51	14°♊45'15	
retrograde	-8421 Nov 18 j 15:42	16°♊38'33	
opposition	-8420 Feb 05 j 13:34	15°♊16'33	2°14'48
min. Earth dist.	-8420 Feb 06 j 03:46	15°♊15'35	29.29755 AU
direct	-8420 Apr 26 j 20:54	13°♊52'26	
evening set	-8420 Jul 25 j 13:23	15°♊48'08	
conjunction	-8420 Aug 09 j 17:39	16°♊22'14	2°07'47
minimum elong	-8420 Aug 09 j 17:38	16°♊22'14	2°08'19
max. Earth dist.	-8420 Aug 09 j 03:42	16°♊20'55	31.29620 AU
morning rise	-8420 Aug 24 j 19:41	16°♊56'10	
retrograde	-8420 Nov 20 j 00:41	18°♊49'35	
opposition	-8419 Feb 07 j 02:24	17°♊27'32	2°18'10
min. Earth dist.	-8419 Feb 07 j 16:30	17°♊26'35	29.29775 AU
direct	-8419 Apr 29 j 09:56	16°♊03'28	
evening set	-8419 Jul 27 j 23:06	17°♊59'04	
conjunction	-8419 Aug 12 j 02:43	18°♊33'08	2°10'50
minimum elong	-8419 Aug 12 j 02:43	18°♊33'08	2°11'21
max. Earth dist.	-8419 Aug 11 j 12:27	18°♊31'47	31.29579 AU
morning rise	-8419 Aug 27 j 04:34	19°♊07'03	
retrograde	-8419 Nov 22 j 11:23	21°♊00'32	
opposition	-8418 Feb 09 j 15:03	19°♊38'26	2°21'20
min. Earth dist.	-8418 Feb 10 j 03:46	19°♊37'34	29.29685 AU
direct	-8418 May 01 j 22:10	18°♊14'23	
evening set	-8418 Jul 30 j 08:39	20°♊09'54	
conjunction	-8418 Aug 14 j 11:56	20°♊43'56	2°13'42
minimum elong	-8418 Aug 14 j 11:55	20°♊43'56	2°14'15
max. Earth dist.	-8418 Aug 13 j 23:11	20°♊42'44	31.29433 AU
morning rise	-8418 Aug 29 j 13:17	21°♊17'49	
retrograde	-8418 Nov 24 j 20:54	23°♊11'25	
opposition	-8417 Feb 12 j 03:44	21°♊49'14	2°24'18
min. Earth dist.	-8417 Feb 12 j 16:42	21°♊48'21	29.29519 AU
direct	-8417 May 04 j 10:03	20°♊25'12	
evening set	-8417 Aug 01 j 18:12	22°♊20'37	
conjunction	-8417 Aug 16 j 20:55	22°♊54'36	2°16'23
minimum elong	-8417 Aug 16 j 20:54	22°♊54'36	2°16'55
max. Earth dist.	-8417 Aug 16 j 08:41	22°♊53'27	31.29259 AU
morning rise	-8417 Aug 31 j 22:01	23°♊28'28	
retrograde	-8417 Nov 27 j 07:11	25°♊22'09	
opposition	-8416 Feb 14 j 16:25	23°♊59'54	2°27'04
min. Earth dist.	-8416 Feb 15 j 03:17	23°♊59'10	29.29351 AU
direct	-8416 May 05 j 21:59	22°♊35'54	
evening set	-8416 Aug 03 j 03:29	24°♊31'12	
conjunction	-8416 Aug 18 j 05:46	25°♊05'10	2°18'52
minimum elong	-8416 Aug 18 j 05:45	25°♊05'10	2°19'25
max. Earth dist.	-8416 Aug 17 j 18:42	25°♊04'07	31.29098 AU
morning rise	-8416 Sep 02 j 06:32	25°♊39'01	
retrograde	-8416 Nov 28 j 17:33	27°♊32'49	
opposition	-8415 Feb 16 j 05:19	26°♊10'29	2°29'37
min. Earth dist.	-8415 Feb 16 j 16:00	26°♊09'46	29.29236 AU
direct	-8415 May 08 j 08:15	24°♊46'31	
evening set	-8415 Aug 05 j 12:49	26°♊41'44	
conjunction	-8415 Aug 20 j 14:44	27°♊15'40	2°21'09
minimum elong	-8415 Aug 20 j 14:44	27°♊15'40	2°21'41
max. Earth dist.	-8415 Aug 20 j 05:05	27°♊14'45	31.29021 AU
morning rise	-8415 Sep 04 j 15:12	27°♊49'29	
retrograde	-8415 Dec 01 j 04:21	29°♊43'24	
opposition	-8414 Feb 18 j 17:53	28°♊21'01	2°31'57
min. Earth dist.	-8414 Feb 19 j 02:36	28°♊20'26	29.29199 AU
direct	-8414 May 10 j 19:08	26°♊57'06	
evening set	-8414 Aug 07 j 22:07	28°♊52'15	
conjunction	-8414 Aug 22 j 23:34	29°♊26'09	2°23'14
minimum elong	-8414 Aug 22 j 23:34	29°♊26'09	2°23'48
max. Earth dist.	-8414 Aug 22 j 14:22	29°♊25'17	31.29019 AU
morning rise	-8414 Sep 06 j 23:54	29°♊59'58	
	-8414 Sep 07 j 00:14	0°♋	
retrograde	-8414 Dec 03 j 16:20	1°♋54'01	
opposition	-8413 Feb 21 j 06:42	0°♋31'36	2°34'04
min. Earth dist.	-8413 Feb 21 j 14:55	0°♋31'03	29.29243 AU
	-8413 Mar 13 j 07:37	30°℞♊	
direct	-8413 May 13 j 05:35	29°♊07'45	
	-8413 Jul 09 j 21:47	0°♋	
evening set	-8413 Aug 10 j 07:12	1°♋02'50	
conjunction	-8413 Aug 25 j 08:26	1°♋36'43	2°25'07
minimum elong	-8413 Aug 25 j 08:26	1°♋36'43	2°25'40
max. Earth dist.	-8413 Aug 25 j 01:17	1°♋36'02	31.29084 AU
morning rise	-8413 Sep 09 j 08:24	2°♋10'31	
retrograde	-8413 Dec 06 j 03:54	4°♋04'42	
opposition	-8412 Feb 23 j 19:36	2°♋42'16	2°35'58
min. Earth dist.	-8412 Feb 24 j 02:31	2°♋41'48	29.29318 AU
direct	-8412 May 14 j 18:22	1°♋18'30	
evening set	-8412 Aug 11 j 16:31	3°♋13'31	
conjunction	-8412 Aug 26 j 17:16	3°♋47'22	2°26'47

Attention, astronomical year style is used: The year -8412 in astronomical counting style is the year 8413 BCE in historical counting style.

minimum elong	-8412 Aug 26 j 17:15	3°♓47'22	2°27'21
max. Earth dist.	-8412 Aug 26 j 10:04	3°♓46'41	31.29167 AU
morning rise	-8412 Sep 10 j 17:13	4°♓21'10	
retrograde	-8412 Dec 07 j 16:54	6°♓15'30	
opposition	-8411 Feb 25 j 08:31	4°♓53'02	2°37'38
min. Earth dist.	-8411 Feb 25 j 14:19	4°♓52'39	29.29404 AU
direct	-8411 May 17 j 04:48	3°♓29'21	
evening set	-8411 Aug 14 j 01:35	5°♓24'18	
conjunction	-8411 Aug 29 j 02:13	5°♓58'09	2°28'14
minimum elong	-8411 Aug 29 j 02:13	5°♓58'09	2°28'47
max. Earth dist.	-8411 Aug 28 j 20:55	5°♓57'39	31.29218 AU
morning rise	-8411 Sep 13 j 01:53	6°♓31'56	
retrograde	-8411 Dec 10 j 02:57	8°♓26'25	
opposition	-8410 Feb 27 j 21:34	7°♓03'56	2°39'05
min. Earth dist.	-8410 Feb 28 j 03:03	7°♓03'33	29.29416 AU
direct	-8410 May 19 j 17:25	5°♓40'19	
evening set	-8410 Aug 16 j 10:57	7°♓35'12	
conjunction	-8410 Aug 31 j 11:09	8°♓09'02	2°29'29
minimum elong	-8410 Aug 31 j 11:09	8°♓09'02	2°30'02
max. Earth dist.	-8410 Aug 31 j 05:42	8°♓08'31	31.29184 AU
morning rise	-8410 Sep 15 j 10:49	8°♓42'49	
retrograde	-8410 Dec 12 j 15:03	10°♓37'26	
opposition	-8409 Mar 02 j 10:27	9°♓14'54	2°40'18
min. Earth dist.	-8409 Mar 02 j 14:30	9°♓14'38	29.29327 AU
direct	-8409 May 22 j 05:39	7°♓51'22	
evening set	-8409 Aug 18 j 20:12	9°♓46'10	
conjunction	-8409 Sep 02 j 20:16	10°♓19'59	2°30'31
minimum elong	-8409 Sep 02 j 20:16	10°♓19'59	2°31'03
max. Earth dist.	-8409 Sep 02 j 16:10	10°♓19'36	31.29018 AU
morning rise	-8409 Sep 17 j 19:43	10°♓53'46	
retrograde	-8409 Dec 15 j 01:47	12°♓48'31	
opposition	-8408 Mar 03 j 23:43	11°♓25'57	2°41'17
min. Earth dist.	-8408 Mar 04 j 04:01	11°♓25'39	29.29095 AU
direct	-8408 May 23 j 17:40	10°♓02'28	
evening set	-8408 Aug 20 j 05:23	11°♓57'10	
conjunction	-8408 Sep 04 j 05:14	12°♓30'58	2°31'20
minimum elong	-8408 Sep 04 j 05:14	12°♓30'58	2°31'53
max. Earth dist.	-8408 Sep 04 j 01:33	12°♓30'37	31.28717 AU
morning rise	-8408 Sep 19 j 04:42	13°♓04'46	
retrograde	-8408 Dec 16 j 12:34	14°♓59'38	
opposition	-8407 Mar 06 j 12:49	13°♓36'59	2°42'03
min. Earth dist.	-8407 Mar 06 j 15:20	13°♓36'49	29.28713 AU
direct	-8407 May 26 j 05:42	12°♓13'32	
evening set	-8407 Aug 22 j 14:38	14°♓08'09	
conjunction	-8407 Sep 06 j 14:19	14°♓41'56	2°31'56
minimum elong	-8407 Sep 06 j 14:19	14°♓41'56	2°32'28
max. Earth dist.	-8407 Sep 06 j 11:10	14°♓41'38	31.28254 AU
morning rise	-8407 Sep 21 j 13:49	15°♓15'44	
retrograde	-8407 Dec 18 j 23:10	17°♓10'43	
opposition	-8406 Mar 09 j 01:52	15°♓47'59	2°42'34
min. Earth dist.	-8406 Mar 09 j 04:40	15°♓47'48	29.28191 AU
direct	-8406 May 28 j 16:11	14°♓24'33	
evening set	-8406 Aug 24 j 23:42	16°♓19'03	
conjunction	-8406 Sep 08 j 23:22	16°♓52'50	2°32'19
minimum elong	-8406 Sep 08 j 23:22	16°♓52'50	2°32'52
max. Earth dist.	-8406 Sep 08 j 21:26	16°♓52'39	31.27676 AU
morning rise	-8406 Sep 23 j 22:49	17°♓26'37	
retrograde	-8406 Dec 21 j 09:57	19°♓21'43	
opposition	-8405 Mar 11 j 14:53	17°♓58'54	2°42'52
min. Earth dist.	-8405 Mar 11 j 16:00	17°♓58'49	29.27557 AU
direct	-8405 May 31 j 03:42	16°♓35'28	
evening set	-8405 Aug 27 j 08:41	18°♓29'51	
conjunction	-8405 Sep 11 j 08:07	19°♓03'37	2°32'29
minimum elong	-8405 Sep 11 j 08:07	19°♓03'37	2°33'01
max. Earth dist.	-8405 Sep 11 j 06:27	19°♓03'28	31.27013 AU
morning rise	-8405 Sep 26 j 07:45	19°♓37'26	
retrograde	-8405 Dec 23 j 22:04	21°♓32'38	
opposition	-8404 Mar 13 j 04:04	20°♓09'42	2°42'56
min. Earth dist.	-8404 Mar 13 j 04:45	20°♓09'39	29.26892 AU
direct	-8404 Jun 01 j 14:11	18°♓46'17	
evening set	-8404 Aug 28 j 17:33	20°♓40'33	
conjunction	-8404 Sep 12 j 17:05	21°♓14'19	2°32'26
minimum elong	-8404 Sep 12 j 17:05	21°♓14'19	2°32'59
max. Earth dist.	-8404 Sep 12 j 17:33	21°♓14'22	31.26352 AU
morning rise	-8404 Sep 27 j 16:39	21°♓48'08	
retrograde	-8404 Dec 25 j 09:33	23°♓43'27	
opposition	-8403 Mar 15 j 17:04	22°♓20'25	2°42'46
min. Earth dist.	-8403 Mar 15 j 16:19	22°♓20'28	29.26247 AU
direct	-8403 Jun 04 j 02:21	20°♓57'01	
evening set	-8403 Aug 31 j 02:28	22°♓51'11	
conjunction	-8403 Sep 15 j 01:50	23°♓24'58	2°32'10
minimum elong	-8403 Sep 15 j 01:50	23°♓24'58	2°32'41
max. Earth dist.	-8403 Sep 15 j 02:25	23°♓25'01	31.25744 AU
morning rise	-8403 Sep 30 j 01:43	23°♓58'47	
retrograde	-8403 Dec 27 j 22:35	25°♓54'14	
opposition	-8402 Mar 18 j 06:02	24°♓31'07	2°42'22
min. Earth dist.	-8402 Mar 18 j 03:53	24°♓31'16	29.25687 AU
direct	-8402 Jun 06 j 12:13	23°♓07'44	
evening set	-8402 Sep 02 j 11:15	25°♓01'50	
conjunction	-8402 Sep 17 j 10:45	25°♓35'37	2°31'41
minimum elong	-8402 Sep 17 j 10:46	25°♓35'37	2°32'13
max. Earth dist.	-8402 Sep 17 j 13:28	25°♓35'52	31.25220 AU
morning rise	-8402 Oct 02 j 10:37	26°♓09'27	
retrograde	-8402 Dec 30 j 09:04	28°♓05'01	
opposition	-8401 Mar 20 j 19:00	26°♓41'52	2°41'44
min. Earth dist.	-8401 Mar 20 j 16:03	26°♓42'03	29.25206 AU
direct	-8401 Jun 09 j 00:24	25°♓18'33	
evening set	-8401 Sep 04 j 20:08	27°♓12'33	
conjunction	-8401 Sep 19 j 19:35	27°♓46'21	2°30'59
minimum elong	-8401 Sep 19 j 19:35	27°♓46'21	2°31'29
max. Earth dist.	-8401 Sep 19 j 22:43	27°♓46'38	31.24800 AU
morning rise	-8401 Oct 04 j 19:46	28°♓20'12	
	-8401 Dec 01 j 16:26	0°♌	
retrograde	-8400 Jan 01 j 22:10	0°♌15'55	
	-8400 Feb 02 j 21:23	30°℞♓	
opposition	-8400 Mar 22 j 08:00	28°♓52'42	2°40'52
min. Earth dist.	-8400 Mar 22 j 03:05	28°♓53'02	29.24823 AU
direct	-8400 Jun 10 j 12:17	27°♓29'28	
evening set	-8400 Sep 06 j 04:52	29°♓23'24	
conjunction	-8400 Sep 21 j 04:29	29°♓57'13	2°30'03
minimum elong	-8400 Sep 21 j 04:29	29°♓57'13	2°30'34
max. Earth dist.	-8400 Sep 21 j 09:20	29°♓57'40	31.24441 AU
	-8400 Sep 22 j 09:54	0°♌	
morning rise	-8400 Oct 06 j 04:50	0°♌31'06	
retrograde	-8399 Jan 03 j 09:45	2°♌26'58	
opposition	-8399 Mar 24 j 21:09	1°♌03'43	2°39'45
min. Earth dist.	-8399 Mar 24 j 16:10	1°♌04'03	29.24482 AU
	-8399 May 08 j 15:24	30°℞♓	
direct	-8399 Jun 12 j 23:42	29°♓40'34	
	-8399 Jul 17 j 03:51	0°♌	
evening set	-8399 Sep 08 j 13:46	1°♌34'26	

Attention, astronomical year style is used: The year -8399 in astronomical counting style is the year 8400 BCE in historical counting style.

conjunction	-8399 Sep	23 j 13:30	2°♌08'15	2°28'54
minimum elong	-8399 Sep	23 j 13:30	2°♌08'15	2°29'24
max. Earth dist.	-8399 Sep	23 j 19:13	2°♌08'47	31.24118 AU
morning rise	-8399 Oct	08 j 14:08	2°♌42'10	
retrograde	-8398 Jan	05 j 20:40	4°♌38'10	