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

evening set	-8900 Jan 26 j 03:55	17°♐01'16	
conjunction	-8900 Feb 11 j 20:53	17°♐58'36	-0°57'58
minimum elong	-8900 Feb 11 j 20:53	17°♐58'36	0°58'30
max. Earth dist.	-8900 Feb 11 j 17:16	17°♐58'05	20.61137 AU
morning rise	-8900 Feb 28 j 15:28	18°♐56'13	
retrograde	-8900 Jun 01 j 16:07	22°♐06'29	
opposition	-8900 Aug 16 j 07:10	20°♐05'59	-1°05'13
min. Earth dist.	-8900 Aug 16 j 11:20	20°♐05'33	18.57913 AU
direct	-8900 Oct 30 j 00:30	18°♐06'19	
evening set	-8899 Jan 29 j 19:06	21°♐12'39	
conjunction	-8899 Feb 15 j 12:31	22°♐10'16	-0°59'36
minimum elong	-8899 Feb 15 j 12:31	22°♐10'16	1°00'10
max. Earth dist.	-8899 Feb 15 j 04:53	22°♐09'09	20.54589 AU
morning rise	-8899 Mar 04 j 07:36	23°♐08'07	
retrograde	-8899 Jun 06 j 04:43	26°♐18'51	
opposition	-8899 Aug 20 j 15:34	24°♐18'13	-1°06'53
min. Earth dist.	-8899 Aug 20 j 22:34	24°♐17'28	18.51223 AU
direct	-8899 Nov 03 j 09:35	22°♐18'05	
evening set	-8898 Feb 03 j 10:56	25°♐25'35	
conjunction	-8898 Feb 20 j 05:08	26°♐23'29	-1°00'56
minimum elong	-8898 Feb 20 j 05:08	26°♐23'29	1°01'30
max. Earth dist.	-8898 Feb 19 j 19:56	26°♐22'09	20.47764 AU
morning rise	-8898 Mar 09 j 00:19	27°♐21'35	
	-8898 May 05 j 18:17	0°♑	
retrograde	-8898 Jun 10 j 18:51	0°♑32'47	
	-8898 Jul 17 j 02:48	30°℞♐	
opposition	-8898 Aug 25 j 00:29	28°♐32'00	-1°08'12
min. Earth dist.	-8898 Aug 25 j 09:10	28°♐31'05	18.44280 AU
direct	-8898 Nov 07 j 20:32	26°♐31'24	
evening set	-8897 Feb 08 j 03:49	29°♐40'07	
	-8897 Feb 13 j 22:48	0°♑	
conjunction	-8897 Feb 24 j 22:18	0°♑38'17	-1°01'57
minimum elong	-8897 Feb 24 j 22:18	0°♑38'17	1°02'31
max. Earth dist.	-8897 Feb 24 j 09:21	0°♑36'24	20.40729 AU
morning rise	-8897 Mar 13 j 17:46	1°♑36'38	
retrograde	-8897 Jun 15 j 08:07	4°♑48'20	
opposition	-8897 Aug 29 j 10:01	2°♑47'24	-1°09'10
min. Earth dist.	-8897 Aug 29 j 21:26	2°♑46'11	18.37185 AU
direct	-8897 Nov 12 j 06:31	0°♑46'18	
evening set	-8896 Feb 12 j 21:16	3°♑56'16	
conjunction	-8896 Feb 29 j 16:21	4°♑54'44	-1°02'37
minimum elong	-8896 Feb 29 j 16:21	4°♑54'44	1°03'11
max. Earth dist.	-8896 Feb 29 j 02:09	4°♑52'40	20.33580 AU
morning rise	-8896 Mar 17 j 11:45	5°♑53'19	
retrograde	-8896 Jun 18 j 23:59	9°♑05'33	
opposition	-8896 Sep 01 j 20:10	7°♑04'27	-1°09'45
min. Earth dist.	-8896 Sep 02 j 08:49	7°♑03'06	18.30005 AU
direct	-8896 Nov 15 j 19:12	5°♑02'54	
evening set	-8895 Feb 16 j 15:37	8°♑14'09	
conjunction	-8895 Mar 05 j 10:55	9°♑12'54	-1°02'57
minimum elong	-8895 Mar 05 j 10:55	9°♑12'54	1°03'31
max. Earth dist.	-8895 Mar 04 j 17:22	9°♑10'20	20.26384 AU
morning rise	-8895 Mar 22 j 06:27	10°♑11'44	
retrograde	-8895 Jun 23 j 13:57	13°♑24'31	
opposition	-8895 Sep 06 j 07:07	11°♑23'17	-1°09'56
min. Earth dist.	-8895 Sep 06 j 22:21	11°♑21'39	18.22820 AU
direct	-8895 Nov 20 j 06:30	9°♑21'16	
evening set	-8894 Feb 21 j 10:51	12°♑33'51	
max. Earth dist.	-8894 Mar 09 j 11:51	13°♑30'08	20.19211 AU
conjunction	-8894 Mar 10 j 06:34	13°♑32'54	-1°02'55
minimum elong	-8894 Mar 10 j 06:34	13°♑32'54	1°03'29
morning rise	-8894 Mar 27 j 01:55	14°♑31'57	
retrograde	-8894 Jun 28 j 07:15	17°♑45'18	
opposition	-8894 Sep 10 j 18:38	15°♑43'58	-1°09'45
min. Earth dist.	-8894 Sep 11 j 10:52	15°♑42'14	18.15673 AU
direct	-8894 Nov 24 j 20:54	13°♑41'31	
evening set	-8893 Feb 26 j 07:09	16°♑55'29	
max. Earth dist.	-8893 Mar 14 j 05:11	17°♑51'36	20.12101 AU
conjunction	-8893 Mar 15 j 02:54	17°♑54'49	-1°02'32
minimum elong	-8893 Mar 15 j 02:54	17°♑54'49	1°03'05
morning rise	-8893 Mar 31 j 22:09	18°♑54'06	
retrograde	-8893 Jul 02 j 22:28	22°♑08'02	
opposition	-8893 Sep 15 j 07:11	20°♑06'38	-1°09'09
min. Earth dist.	-8893 Sep 16 j 01:54	20°♑04'38	18.08623 AU
direct	-8893 Nov 29 j 10:08	18°♑03'47	
evening set	-8892 Mar 02 j 03:59	21°♑19'08	
conjunction	-8892 Mar 18 j 23:57	22°♑18'45	-1°01'47
minimum elong	-8892 Mar 18 j 23:57	22°♑18'45	1°02'21
max. Earth dist.	-8892 Mar 18 j 01:08	22°♑15'21	20.05107 AU
morning rise	-8892 Apr 04 j 18:54	23°♑18'16	
retrograde	-8892 Jul 06 j 16:58	26°♑32'49	
opposition	-8892 Sep 18 j 20:26	24°♑31'23	-1°08'08
min. Earth dist.	-8892 Sep 19 j 15:53	24°♑29'17	18.01685 AU
direct	-8892 Dec 03 j 02:09	22°♑28'10	
evening set	-8891 Mar 07 j 02:01	25°♑44'56	
conjunction	-8891 Mar 23 j 21:55	26°♑44'49	-1°00'40
minimum elong	-8891 Mar 23 j 21:56	26°♑44'49	1°01'12
max. Earth dist.	-8891 Mar 22 j 20:28	26°♑41'01	19.98225 AU
morning rise	-8891 Apr 09 j 16:35	27°♑44'33	
	-8891 May 24 j 07:50	0°♒	
retrograde	-8891 Jul 11 j 09:43	0°♒59'44	
	-8891 Aug 29 j 10:07	30°℞♑	
opposition	-8891 Sep 23 j 10:34	28°♑58'16	-1°06'42
min. Earth dist.	-8891 Sep 24 j 08:39	28°♑55'53	17.94873 AU
direct	-8891 Dec 07 j 17:18	26°♑54'42	
	-8890 Mar 08 j 08:10	0°♒	
evening set	-8890 Mar 12 j 00:56	0°♒12'54	
conjunction	-8890 Mar 28 j 20:50	1°♒13'03	-0°59'10
minimum elong	-8890 Mar 28 j 20:50	1°♒13'03	0°59'42
max. Earth dist.	-8890 Mar 27 j 17:56	1°♒09'00	19.91469 AU
morning rise	-8890 Apr 14 j 15:04	2°♒13'00	
retrograde	-8890 Jul 16 j 05:41	5°♒28'49	
opposition	-8890 Sep 28 j 01:38	3°♒27'19	-1°04'51
min. Earth dist.	-8890 Sep 29 j 00:26	3°♒24'51	17.88166 AU
direct	-8890 Dec 12 j 11:24	1°♒23'25	
evening set	-8889 Mar 17 j 00:44	4°♒43'01	
conjunction	-8889 Apr 02 j 20:23	5°♒43'26	-0°57'17
minimum elong	-8889 Apr 02 j 20:23	5°♒43'26	0°57'47
max. Earth dist.	-8889 Apr 01 j 15:15	5°♒39'02	19.84803 AU
morning rise	-8889 Apr 19 j 14:03	6°♒43'34	
retrograde	-8889 Jul 20 j 23:48	10°♒00'01	
opposition	-8889 Oct 02 j 17:49	7°♒58'30	-1°02'35
min. Earth dist.	-8889 Oct 03 j 19:10	7°♒55'45	17.81565 AU
direct	-8889 Dec 17 j 04:52	5°♒54'15	
evening set	-8888 Mar 21 j 01:16	9°♒15'14	
conjunction	-8888 Apr 06 j 20:40	10°♒15'52	-0°55'02
minimum elong	-8888 Apr 06 j 20:40	10°♒15'52	0°55'31
max. Earth dist.	-8888 Apr 05 j 13:52	10°♒11'12	19.78259 AU

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

morning rise	-8888 Apr 23 j 13:48	11°♒16'12	
retrograde	-8888 Jul 24 j 20:45	14°♒33'15	
opposition	-8888 Oct 06 j 10:41	12°♒31'40	-0°59'53
min. Earth dist.	-8888 Oct 07 j 12:32	12°♒28'52	17.75081 AU
direct	-8888 Dec 21 j 01:09	10°♒27'05	
evening set	-8887 Mar 26 j 02:30	13°♒49'23	
conjunction	-8887 Apr 11 j 21:36	14°♒50'15	-0°52'25
minimum elong	-8887 Apr 11 j 21:36	14°♒50'15	0°52'52
max. Earth dist.	-8887 Apr 10 j 13:11	14°♒45'19	19.71833 AU
	-8887 Apr 14 j 13:39	15°♒	
morning rise	-8887 Apr 28 j 13:59	15°♒50'46	
retrograde	-8887 Jul 29 j 16:06	19°♒08'23	
opposition	-8887 Oct 11 j 04:42	17°♒06'45	-0°56'48
min. Earth dist.	-8887 Oct 12 j 08:53	17°♒03'41	17.68736 AU
direct	-8887 Dec 25 j 21:13	15°♒01'48	
evening set	-8886 Mar 31 j 04:30	18°♒25'23	
conjunction	-8886 Apr 16 j 23:04	19°♒26'27	-0°49'27
minimum elong	-8886 Apr 16 j 23:05	19°♒26'27	0°49'51
max. Earth dist.	-8886 Apr 15 j 12:57	19°♒21'14	19.65583 AU
morning rise	-8886 May 03 j 14:49	20°♒27'07	
retrograde	-8886 Aug 03 j 13:45	23°♒45'17	
opposition	-8886 Oct 15 j 23:20	21°♒43'33	-0°53'20
min. Earth dist.	-8886 Oct 17 j 03:45	21°♒40'28	17.62591 AU
direct	-8886 Dec 30 j 19:48	19°♒38'15	
evening set	-8885 Apr 05 j 06:59	23°♒03'04	
max. Earth dist.	-8885 Apr 20 j 14:21	23°♒58'58	19.59557 AU
conjunction	-8885 Apr 22 j 01:05	24°♒04'18	-0°46'09
minimum elong	-8885 Apr 22 j 01:06	24°♒04'18	0°46'33
morning rise	-8885 May 08 j 15:52	25°♒05'07	
retrograde	-8885 Aug 08 j 10:13	28°♒23'48	
opposition	-8885 Oct 20 j 19:05	26°♒21'59	-0°49'30
min. Earth dist.	-8885 Oct 22 j 01:17	26°♒18'42	17.56716 AU
direct	-8884 Jan 04 j 17:33	24°♒16'21	
evening set	-8884 Apr 09 j 09:49	27°♒42'17	
max. Earth dist.	-8884 Apr 24 j 15:01	28°♒38'06	19.53854 AU
conjunction	-8884 Apr 26 j 03:10	28°♒43'41	-0°42'32
minimum elong	-8884 Apr 26 j 03:10	28°♒43'41	0°42'53
morning rise	-8884 May 12 j 17:14	29°♒44'37	
	-8884 May 17 j 00:04	0°♓	
retrograde	-8884 Aug 12 j 09:10	3°♓03'48	
opposition	-8884 Oct 24 j 15:26	1°♓01'53	-0°45'19
min. Earth dist.	-8884 Oct 25 j 21:27	0°♓58'36	17.51193 AU
	-8884 Nov 18 j 08:33	30°♑℞♒	
direct	-8883 Jan 08 j 17:49	28°♒55'54	
	-8883 Feb 27 j 21:30	0°♓	
evening set	-8883 Apr 14 j 13:05	2°♓22'55	
max. Earth dist.	-8883 Apr 29 j 18:06	3°♓18'56	19.48524 AU
conjunction	-8883 May 01 j 05:52	3°♓24'28	-0°38'37
minimum elong	-8883 May 01 j 05:52	3°♓24'28	0°38'56
morning rise	-8883 May 17 j 18:47	4°♓25'30	
retrograde	-8883 Aug 17 j 06:43	7°♓45'07	
opposition	-8883 Oct 29 j 12:38	5°♓43'08	-0°40'49
min. Earth dist.	-8883 Oct 30 j 19:51	5°♓39'43	17.46085 AU
direct	-8882 Jan 13 j 16:36	3°♓36'51	
evening set	-8882 Apr 19 j 16:52	7°♓04'52	
max. Earth dist.	-8882 May 04 j 19:46	8°♓00'47	19.43660 AU
conjunction	-8882 May 06 j 08:38	8°♓06'31	-0°34'26
minimum elong	-8882 May 06 j 08:39	8°♓06'31	0°34'43
morning rise	-8882 May 22 j 20:41	9°♓07'39	
retrograde	-8882 Aug 22 j 06:53	12°♓27'41	
opposition	-8882 Nov 03 j 10:41	10°♓25'37	-0°36'01
min. Earth dist.	-8882 Nov 04 j 17:22	10°♓22'16	17.41479 AU
direct	-8881 Jan 18 j 17:47	8°♓19'06	
evening set	-8881 Apr 24 j 20:35	11°♓48'00	
max. Earth dist.	-8881 May 10 j 00:07	12°♓44'13	19.39319 AU
conjunction	-8881 May 11 j 11:35	12°♓49'45	-0°30'01
minimum elong	-8881 May 11 j 11:35	12°♓49'45	0°30'14
morning rise	-8881 May 27 j 22:21	13°♓50'56	
retrograde	-8881 Aug 27 j 05:38	17°♓11'22	
opposition	-8881 Nov 08 j 09:37	15°♓09'16	-0°30'58
min. Earth dist.	-8881 Nov 09 j 16:34	15°♓05'53	17.37423 AU
direct	-8880 Jan 23 j 17:51	13°♓02'34	
evening set	-8880 Apr 29 j 00:45	16°♓32'17	
max. Earth dist.	-8880 May 14 j 02:28	17°♓28'25	19.35569 AU
conjunction	-8880 May 15 j 14:36	17°♓34'05	-0°25'22
minimum elong	-8880 May 15 j 14:36	17°♓34'05	0°25'34
morning rise	-8880 Jun 01 j 00:23	18°♓35'17	
retrograde	-8880 Aug 31 j 06:11	21°♓56'07	
opposition	-8880 Nov 12 j 09:03	19°♓53'59	-0°25'41
min. Earth dist.	-8880 Nov 13 j 15:20	19°♓50'41	17.33986 AU
direct	-8879 Jan 27 j 19:52	17°♓47'09	
evening set	-8879 May 04 j 04:55	21°♓17'36	
max. Earth dist.	-8879 May 19 j 07:37	22°♓14'03	19.32441 AU
conjunction	-8879 May 20 j 17:54	22°♓19'27	-0°20'32
minimum elong	-8879 May 20 j 17:54	22°♓19'27	0°20'41
morning rise	-8879 Jun 06 j 02:22	23°♓20'40	
retrograde	-8879 Sep 05 j 05:42	26°♓41'50	
opposition	-8879 Nov 17 j 09:26	24°♓39'44	-0°20'12
min. Earth dist.	-8879 Nov 18 j 15:18	24°♓36'28	17.31159 AU
direct	-8878 Feb 01 j 21:59	22°♓32'52	
evening set	-8878 May 09 j 09:22	26°♓03'56	
max. Earth dist.	-8878 May 24 j 10:35	27°♓00'20	19.29932 AU
conjunction	-8878 May 25 j 21:02	27°♓05'46	-0°15'32
minimum elong	-8878 May 25 j 21:02	27°♓05'46	0°15'38
behind sun begin	-8878 May 25 j 19:42	27°♓05'33	
behind sun end	-8878 May 25 j 22:22	27°♓05'58	
morning rise	-8878 Jun 11 j 04:23	28°♓06'58	
	-8878 Jul 14 j 21:30	0°♈	
retrograde	-8878 Sep 10 j 06:02	1°♈28'28	
	-8878 Nov 09 j 09:57	30°♑℞♓	
opposition	-8878 Nov 22 j 10:29	29°♓26'24	-0°14'32
min. Earth dist.	-8878 Nov 23 j 15:43	29°♓23'13	17.28961 AU
direct	-8877 Feb 07 j 01:14	27°♓19'32	
	-8877 Apr 30 j 07:31	0°♈	
evening set	-8877 May 14 j 13:42	0°♈51'07	
max. Earth dist.	-8877 May 29 j 15:55	1°♈47'49	19.28039 AU
conjunction	-8877 May 31 j 00:18	1°♈52'55	-0°10'26
minimum elong	-8877 May 31 j 00:18	1°♈52'55	0°10'29
behind sun begin	-8877 May 30 j 19:04	1°♈52'07	
behind sun end	-8877 May 31 j 05:31	1°♈53'44	
morning rise	-8877 Jun 16 j 06:18	2°♈54'05	
retrograde	-8877 Sep 15 j 06:31	6°♈15'52	
opposition	-8877 Nov 27 j 12:14	4°♈13'53	-0°08'46
min. Earth dist.	-8877 Nov 28 j 16:26	4°♈10'48	17.27352 AU
direct	-8876 Feb 12 j 05:37	2°♈07'03	
evening set	-8876 May 18 j 18:02	5°♈39'01	
max. Earth dist.	-8876 Jun 02 j 19:17	6°♈35'42	19.26717 AU
conjunction	-8876 Jun 04 j 03:18	6°♈40'46	-0°05'15
minimum elong	-8876 Jun 04 j 03:17	6°♈40'46	0°05'14
behind sun begin	-8876 Jun 03 j 20:48	6°♈39'46	
behind sun end	-8876 Jun 04 j 09:46	6°♈41'46	
morning rise	-8876 Jun 20 j 08:06	7°♈41'52	

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

retrograde	-8876 Sep 19 j 06:35	11°♈03'54	
opposition	-8876 Dec 01 j 14:35	9°♈01'57	-0°02'55
min. Earth dist.	-8876 Dec 02 j 18:21	8°♈58'56	17.26310 AU
direct	-8875 Feb 16 j 09:44	6°♈55'12	
evening set	-8875 May 23 j 22:15	10°♈27'24	
asc. node	-8875 Jun 03 j 05:04	11°♈06'03	
max. Earth dist.	-8875 Jun 08 j 00:09	11°♈24'18	19.25942 AU
conjunction	-8875 Jun 09 j 06:17	11°♈29'04	0°00'05
minimum elong	-8875 Jun 09 j 06:16	11°♈29'04	0°00'08
behind sun begin	-8875 Jun 08 j 23:43	11°♈28'03	
behind sun end	-8875 Jun 09 j 12:48	11°♈30'05	
morning rise	-8875 Jun 25 j 09:45	12°♈30'05	
retrograde	-8875 Sep 24 j 07:52	15°♈52'16	
opposition	-8875 Dec 06 j 17:24	13°♈50'24	0°02'58
min. Earth dist.	-8875 Dec 07 j 19:34	13°♈47'34	17.25783 AU
direct	-8874 Feb 21 j 15:38	11°♈43'44	
evening set	-8874 May 29 j 02:22	15°♈16'03	
max. Earth dist.	-8874 Jun 13 j 03:54	16°♈12'59	19.25674 AU
conjunction	-8874 Jun 14 j 09:00	16°♈17'36	0°05'25
minimum elong	-8874 Jun 14 j 09:00	16°♈17'36	0°05'30
behind sun begin	-8874 Jun 14 j 02:34	16°♈16'36	
behind sun end	-8874 Jun 14 j 15:25	16°♈18'36	
morning rise	-8874 Jun 30 j 11:09	17°♈18'31	
retrograde	-8874 Sep 29 j 07:55	20°♈40'49	
opposition	-8874 Dec 11 j 20:52	18°♈38'59	0°08'50
min. Earth dist.	-8874 Dec 12 j 22:34	18°♈36'13	17.25776 AU
direct	-8873 Feb 26 j 19:52	16°♈32'25	
evening set	-8873 Jun 03 j 05:53	20°♈04'42	
max. Earth dist.	-8873 Jun 18 j 07:51	21°♈01'46	19.25923 AU
conjunction	-8873 Jun 19 j 11:10	21°♈06'07	0°10'37
minimum elong	-8873 Jun 19 j 11:09	21°♈06'06	0°10'45
behind sun begin	-8873 Jun 19 j 06:03	21°♈05'19	
behind sun end	-8873 Jun 19 j 16:16	21°♈06'54	
morning rise	-8873 Jul 05 j 12:06	22°♈06'53	
retrograde	-8873 Oct 04 j 09:45	25°♈29'15	
opposition	-8873 Dec 17 j 00:30	23°♈27'27	0°14'38
min. Earth dist.	-8873 Dec 17 j 23:54	23°♈24'56	17.26265 AU
direct	-8872 Mar 03 j 02:16	21°♈21'00	
evening set	-8872 Jun 07 j 09:04	24°♈53'06	
max. Earth dist.	-8872 Jun 22 j 11:36	25°♈50'19	19.26666 AU
conjunction	-8872 Jun 23 j 13:03	25°♈54'21	0°15'44
minimum elong	-8872 Jun 23 j 13:03	25°♈54'21	0°15'55
behind sun begin	-8872 Jun 23 j 12:01	25°♈54'12	
behind sun end	-8872 Jun 23 j 14:04	25°♈54'31	
morning rise	-8872 Jul 09 j 12:40	26°♈54'59	
	-8872 Sep 13 j 16:55	0°♉	
retrograde	-8872 Oct 08 j 09:27	0°♉17'19	
	-8872 Nov 02 j 15:19	30°℞♈	
opposition	-8872 Dec 21 j 04:20	28°♈15'33	0°20'19
min. Earth dist.	-8872 Dec 22 j 03:10	28°♈13'06	17.27267 AU
direct	-8871 Mar 08 j 06:23	26°♈09'14	
evening set	-8871 Jun 12 j 11:44	29°♈41'02	
	-8871 Jun 17 j 13:04	0°♉	
conjunction	-8871 Jun 28 j 14:18	0°♉42'05	0°20'45
minimum elong	-8871 Jun 28 j 14:18	0°♉42'05	0°20'59
max. Earth dist.	-8871 Jun 27 j 14:30	0°♉38'18	19.27937 AU
morning rise	-8871 Jul 14 j 12:48	1°♉42'33	
retrograde	-8871 Oct 13 j 11:01	5°♉04'49	
opposition	-8871 Dec 26 j 08:18	3°♉03'03	0°25'50
min. Earth dist.	-8871 Dec 27 j 04:16	3°♉00'55	17.28791 AU
direct	-8870 Mar 13 j 12:26	0°♉56'54	
evening set	-8870 Jun 17 j 13:33	4°♉28'15	

conjunction	-8870 Jul 03 j 14:52	5°♉29'06	0°25'37
minimum elong	-8870 Jul 03 j 14:51	5°♉29'06	0°25'53
max. Earth dist.	-8870 Jul 02 j 17:57	5°♉25'46	19.29731 AU
morning rise	-8870 Jul 19 j 12:03	6°♉29'22	
retrograde	-8870 Oct 18 j 10:37	9°♉51'30	
opposition	-8870 Dec 31 j 12:31	7°♉49'46	0°31'10
min. Earth dist.	-8869 Jan 01 j 07:26	7°♉47'44	17.30865 AU
direct	-8869 Mar 18 j 16:29	5°♉43'47	
evening set	-8869 Jun 22 j 14:47	9°♉14'34	
conjunction	-8869 Jul 08 j 14:39	10°♉15'11	0°30'17
minimum elong	-8869 Jul 08 j 14:39	10°♉15'11	0°30'36
max. Earth dist.	-8869 Jul 07 j 19:32	10°♉12'08	19.32100 AU
morning rise	-8869 Jul 24 j 10:53	11°♉15'15	
retrograde	-8869 Oct 23 j 11:28	14°♉37'13	
opposition	-8868 Jan 05 j 16:23	12°♉35'29	0°36'15
min. Earth dist.	-8868 Jan 06 j 07:59	12°♉33'49	17.33522 AU
direct	-8868 Mar 22 j 21:41	10°♉29'43	
evening set	-8868 Jun 26 j 15:03	13°♉59'49	
conjunction	-8868 Jul 12 j 13:48	15°♉00'12	0°34'43
minimum elong	-8868 Jul 12 j 13:48	15°♉00'12	0°35'05
max. Earth dist.	-8868 Jul 11 j 22:16	14°♉57'44	19.35049 AU
	-8868 Jul 12 j 12:35	15°♉	
morning rise	-8868 Jul 28 j 08:48	16°♉00'02	
retrograde	-8868 Oct 27 j 10:32	19°♉21'47	
opposition	-8867 Jan 09 j 20:20	17°♉20'05	0°41'05
min. Earth dist.	-8867 Jan 10 j 10:22	17°♉18'35	17.36768 AU
direct	-8867 Mar 28 j 01:44	15°♉14'35	
evening set	-8867 Jul 01 j 14:43	18°♉43'55	
conjunction	-8867 Jul 17 j 12:02	19°♉44'01	0°38'55
minimum elong	-8867 Jul 17 j 12:02	19°♉44'01	0°39'18
max. Earth dist.	-8867 Jul 16 j 22:19	19°♉41'50	19.38602 AU
morning rise	-8867 Aug 02 j 06:09	20°♉43'38	
retrograde	-8867 Nov 01 j 10:16	24°♉05'08	
opposition	-8866 Jan 14 j 23:58	22°♉03'29	0°45'36
min. Earth dist.	-8866 Jan 15 j 10:28	22°♉02'22	17.40621 AU
direct	-8866 Apr 02 j 06:08	19°♉58'19	
evening set	-8866 Jul 06 j 13:25	23°♉26'47	
conjunction	-8866 Jul 22 j 09:43	24°♉26'37	0°42'50
minimum elong	-8866 Jul 22 j 09:43	24°♉26'37	0°43'16
max. Earth dist.	-8866 Jul 21 j 23:59	24°♉25'04	19.42752 AU
morning rise	-8866 Aug 07 j 02:43	25°♉25'59	
retrograde	-8866 Nov 06 j 08:46	28°♉47'11	
opposition	-8865 Jan 20 j 03:32	26°♉45'39	0°49'48
min. Earth dist.	-8865 Jan 20 j 11:55	26°♉44'46	17.45056 AU
direct	-8865 Apr 07 j 10:11	24°♉40'52	
evening set	-8865 Jul 11 j 11:20	28°♉08'23	
conjunction	-8865 Jul 27 j 06:21	29°♉07'55	0°46'27
minimum elong	-8865 Jul 27 j 06:21	29°♉07'55	0°46'54
max. Earth dist.	-8865 Jul 26 j 22:27	29°♉06'40	19.47472 AU
	-8865 Aug 10 j 01:15	0°♊	
morning rise	-8865 Aug 11 j 22:41	0°♊07'02	
retrograde	-8865 Nov 11 j 07:02	3°♊27'56	
opposition	-8864 Jan 25 j 06:37	1°♊26'31	0°53'40
min. Earth dist.	-8864 Jan 25 j 11:44	1°♊25'59	17.50038 AU
	-8864 Mar 03 j 03:38	30°℞♉	
direct	-8864 Apr 11 j 13:21	29°♉22'08	
	-8864 May 19 j 18:20	0°♊	
evening set	-8864 Jul 15 j 08:21	2°♊48'39	
conjunction	-8864 Jul 31 j 02:29	3°♊47'53	0°49'45
minimum elong	-8864 Jul 31 j 02:29	3°♊47'53	0°50'14
max. Earth dist.	-8864 Jul 30 j 22:31	3°♊47'16	19.52695 AU

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

morning rise	-8864 Aug 15 j 17:52	4°♊46'45	
retrograde	-8864 Nov 15 j 04:39	8°♊07'17	
opposition	-8863 Jan 29 j 09:18	6°♊06'02	0°57'08
min. Earth dist.	-8863 Jan 29 j 12:10	6°♊05'44	17.55475 AU
direct	-8863 Apr 16 j 16:15	4°♊02'05	
evening set	-8863 Jul 20 j 04:43	7°♊27'31	
conjunction	-8863 Aug 04 j 21:41	8°♊26'27	0°52'43
minimum elong	-8863 Aug 04 j 21:41	8°♊26'27	0°53'13
max. Earth dist.	-8863 Aug 04 j 19:26	8°♊26'06	19.58342 AU
morning rise	-8863 Aug 20 j 12:31	9°♊25'04	
retrograde	-8863 Nov 20 j 01:59	12°♊45'12	
opposition	-8862 Feb 03 j 11:44	10°♊44'06	1°00'14
min. Earth dist.	-8862 Feb 03 j 11:48	10°♊44'05	17.61316 AU
direct	-8862 Apr 21 j 17:34	8°♊40'35	
evening set	-8862 Jul 24 j 23:56	12°♊04'52	
conjunction	-8862 Aug 09 j 16:09	13°♊03'29	0°55'19
minimum elong	-8862 Aug 09 j 16:09	13°♊03'29	0°55'50
max. Earth dist.	-8862 Aug 09 j 17:37	13°♊03'43	19.64344 AU
morning rise	-8862 Aug 25 j 06:14	14°♊01'50	
retrograde	-8862 Nov 24 j 22:54	17°♊21'33	
opposition	-8861 Feb 08 j 13:42	15°♊20'36	1°02'54
min. Earth dist.	-8861 Feb 08 j 11:14	15°♊20'51	17.67455 AU
direct	-8861 Apr 26 j 18:45	13°♊17'32	
evening set	-8861 Jul 29 j 18:35	16°♊40'34	
conjunction	-8861 Aug 14 j 09:49	17°♊38'53	0°57'33
minimum elong	-8861 Aug 14 j 09:49	17°♊38'53	0°58'05
max. Earth dist.	-8861 Aug 14 j 12:54	17°♊39'22	19.70608 AU
morning rise	-8861 Aug 29 j 23:32	18°♊36'59	
retrograde	-8861 Nov 29 j 19:16	21°♊56'13	
opposition	-8860 Feb 13 j 14:56	19°♊55'23	1°05'09
min. Earth dist.	-8860 Feb 13 j 10:18	19°♊55'52	17.73840 AU
direct	-8860 Apr 30 j 18:13	17°♊52'44	
evening set	-8860 Aug 02 j 12:09	21°♊14'30	
conjunction	-8860 Aug 18 j 02:49	22°♊12'31	0°59'24
minimum elong	-8860 Aug 18 j 02:49	22°♊12'31	0°59'56
max. Earth dist.	-8860 Aug 18 j 09:03	22°♊13'30	19.77077 AU
morning rise	-8860 Sep 02 j 16:00	23°♊10'21	
retrograde	-8860 Dec 03 j 15:33	26°♊29'03	
opposition	-8859 Feb 17 j 15:37	24°♊28'20	1°06'59
min. Earth dist.	-8859 Feb 17 j 08:15	24°♊29'06	17.80374 AU
direct	-8859 May 05 j 17:58	22°♊26'07	
evening set	-8859 Aug 07 j 04:53	25°♊46'32	
conjunction	-8859 Aug 22 j 18:46	26°♊44'15	1°00'51
minimum elong	-8859 Aug 22 j 18:46	26°♊44'15	1°01'25
max. Earth dist.	-8859 Aug 23 j 02:39	26°♊45'28	19.83667 AU
morning rise	-8859 Sep 07 j 07:44	27°♊41'49	
	-8859 Oct 21 j 09:31	0°♋	
retrograde	-8859 Dec 08 j 10:33	0°♋59'59	
	-8858 Jan 27 j 23:30	30°℞♊	
opposition	-8858 Feb 22 j 15:44	28°♊59'20	1°08'22
min. Earth dist.	-8858 Feb 22 j 06:36	29°♊00'16	17.87027 AU
direct	-8858 May 10 j 15:53	26°♊57'30	
	-8858 Aug 07 j 06:04	0°♋	
evening set	-8858 Aug 11 j 20:35	0°♋16'33	
conjunction	-8858 Aug 27 j 10:04	1°♋13'58	1°01'56
minimum elong	-8858 Aug 27 j 10:04	1°♋13'58	1°02'30
max. Earth dist.	-8858 Aug 27 j 20:48	1°♋15'37	19.90362 AU
morning rise	-8858 Sep 11 j 22:44	2°♋11'16	
retrograde	-8858 Dec 13 j 05:59	5°♋28'50	
opposition	-8857 Feb 27 j 14:53	3°♋28'15	1°09'20
min. Earth dist.	-8857 Feb 27 j 02:49	3°♋29'30	17.93751 AU
direct	-8857 May 15 j 14:39	1°♋26'47	
evening set	-8857 Aug 16 j 11:21	4°♋44'26	
conjunction	-8857 Sep 01 j 00:20	5°♋41'33	1°02'37
minimum elong	-8857 Sep 01 j 00:20	5°♋41'33	1°03'12
max. Earth dist.	-8857 Sep 01 j 12:53	5°♋43'29	19.97115 AU
morning rise	-8857 Sep 16 j 13:01	6°♋38'37	
retrograde	-8857 Dec 17 j 22:50	9°♋55'34	
opposition	-8856 Mar 03 j 13:18	7°♋55'00	1°09'51
min. Earth dist.	-8856 Mar 02 j 23:52	7°♋56'23	18.00542 AU
direct	-8856 May 19 j 10:48	5°♋53'53	
evening set	-8856 Aug 20 j 01:03	9°♋10'07	
conjunction	-8856 Sep 04 j 13:47	10°♋06'57	1°02'56
minimum elong	-8856 Sep 04 j 13:46	10°♋06'57	1°03'30
max. Earth dist.	-8856 Sep 05 j 04:57	10°♋09'17	20.03932 AU
morning rise	-8856 Sep 20 j 02:22	11°♋03'46	
retrograde	-8856 Dec 21 j 16:58	14°♋20'05	
opposition	-8855 Mar 08 j 10:36	12°♋19'33	1°09'58
min. Earth dist.	-8855 Mar 07 j 18:05	12°♋21'14	18.07384 AU
direct	-8855 May 24 j 07:58	10°♋18'46	
evening set	-8855 Aug 24 j 13:54	13°♋33'36	
conjunction	-8855 Sep 09 j 02:19	14°♋30'09	1°02'52
minimum elong	-8855 Sep 09 j 02:19	14°♋30'09	1°03'25
max. Earth dist.	-8855 Sep 09 j 19:37	14°♋32'47	20.10806 AU
morning rise	-8855 Sep 24 j 15:03	15°♋26'44	
retrograde	-8855 Dec 26 j 07:46	18°♋42'26	
opposition	-8854 Mar 13 j 07:20	16°♋41'55	1°09'40
min. Earth dist.	-8854 Mar 12 j 13:32	16°♋43'44	18.14307 AU
direct	-8854 May 29 j 01:57	14°♋41'30	
evening set	-8854 Aug 29 j 01:42	17°♋54'55	
conjunction	-8854 Sep 13 j 14:03	18°♋51'12	1°02'27
minimum elong	-8854 Sep 13 j 14:03	18°♋51'12	1°03'01
max. Earth dist.	-8854 Sep 14 j 09:46	18°♋54'12	20.17764 AU
morning rise	-8854 Sep 29 j 02:55	19°♋47'34	
retrograde	-8854 Dec 31 j 00:43	23°♋02'38	
min. Earth dist.	-8853 Mar 17 j 05:57	21°♋04'19	18.21296 AU
opposition	-8853 Mar 18 j 02:57	21°♋02'10	1°08'59
direct	-8853 Jun 02 j 21:08	19°♋02'07	
evening set	-8853 Sep 02 j 12:51	22°♋14'12	
conjunction	-8853 Sep 18 j 01:07	23°♋10'14	1°01'41
minimum elong	-8853 Sep 18 j 01:07	23°♋10'14	1°02'13
max. Earth dist.	-8853 Sep 18 j 22:57	23°♋13'32	20.24772 AU
morning rise	-8853 Oct 03 j 14:17	24°♋06'23	
retrograde	-8852 Jan 04 j 14:06	27°♋20'51	
opposition	-8852 Mar 21 j 21:40	25°♋20'28	1°07'55
min. Earth dist.	-8852 Mar 20 j 23:42	25°♋22'42	18.28335 AU
direct	-8852 Jun 06 j 12:31	23°♋20'48	
evening set	-8852 Sep 05 j 23:09	26°♋31'35	
conjunction	-8852 Sep 21 j 11:30	27°♋27'22	1°00'35
minimum elong	-8852 Sep 21 j 11:30	27°♋27'22	1°01'07
max. Earth dist.	-8852 Sep 22 j 11:17	27°♋30'58	20.31824 AU
morning rise	-8852 Oct 07 j 01:00	28°♋23'20	
	-8852 Nov 05 j 18:48	0°♌	
retrograde	-8851 Jan 08 j 05:47	1°♌37'12	
	-8851 Mar 17 j 02:42	30°℞♋	
opposition	-8851 Mar 26 j 15:32	29°♋36'56	1°06'29
min. Earth dist.	-8851 Mar 25 j 14:35	29°♋39'28	18.35380 AU
direct	-8851 Jun 11 j 05:41	27°♋37'40	
	-8851 Aug 27 j 12:47	0°♌	
evening set	-8851 Sep 10 j 08:38	0°♌47'11	
conjunction	-8851 Sep 25 j 21:05	1°♌42'45	0°59'10

Attention, astronomical year style is used: The year -8851 in astronomical counting style is the year 8852 BCE in historical counting style.

minimum elong	-8851 Sep 25 j 21:05	1°♌42'45	0°59'41
max. Earth dist.	-8851 Sep 26 j 22:59	1°♌46'39	20.38844 AU
morning rise	-8851 Oct 11 j 11:02	2°♌38'32	
retrograde	-8850 Jan 12 j 18:20	5°♌51'52	
min. Earth dist.	-8850 Mar 30 j 07:13	3°♌54'18	18.42375 AU
opposition	-8850 Mar 31 j 08:48	3°♌51'43	1°04'42
direct	-8850 Jun 15 j 19:18	1°♌52'52	
evening set	-8850 Sep 14 j 17:34	5°♌01'09	
conjunction	-8850 Sep 30 j 06:17	5°♌56'31	0°57'25
minimum elong	-8850 Sep 30 j 06:18	5°♌56'31	0°57'55
max. Earth dist.	-8850 Oct 01 j 09:37	6°♌00'36	20.45793 AU
morning rise	-8850 Oct 15 j 20:47	6°♌52'08	
retrograde	-8849 Jan 17 j 08:50	10°♌04'55	
min. Earth dist.	-8849 Apr 03 j 20:53	8°♌07'43	18.49254 AU
opposition	-8849 Apr 05 j 00:56	8°♌04'54	1°02'34
direct	-8849 Jun 20 j 10:13	6°♌06'26	
evening set	-8849 Sep 19 j 01:56	9°♌13'34	
conjunction	-8849 Oct 04 j 14:58	10°♌08'45	0°55'22
minimum elong	-8849 Oct 04 j 14:58	10°♌08'45	0°55'51
max. Earth dist.	-8849 Oct 05 j 20:01	10°♌13'05	20.52573 AU
morning rise	-8849 Oct 20 j 06:02	11°♌04'12	
retrograde	-8848 Jan 21 j 20:25	14°♌16'28	
opposition	-8848 Apr 08 j 16:29	12°♌16'34	1°00'06
min. Earth dist.	-8848 Apr 07 j 12:19	12°♌19'25	18.55933 AU
direct	-8848 Jun 23 j 22:20	10°♌18'31	
evening set	-8848 Sep 22 j 09:44	13°♌24'31	
conjunction	-8848 Oct 07 j 23:07	14°♌19'30	0°53'02
minimum elong	-8848 Oct 07 j 23:07	14°♌19'31	0°53'28
max. Earth dist.	-8848 Oct 09 j 04:58	14°♌23'56	20.59129 AU
	-8848 Oct 19 j 09:01	15°♌	
morning rise	-8848 Oct 23 j 14:50	15°♌14'49	
retrograde	-8847 Jan 25 j 09:26	18°♌26'34	
min. Earth dist.	-8847 Apr 12 j 00:59	16°♌29'50	18.62347 AU
opposition	-8847 Apr 13 j 07:07	16°♌26'48	0°57'21
	-8847 May 23 j 16:00	15°℞♌	
direct	-8847 Jun 28 j 11:15	14°♌29'05	
	-8847 Aug 02 j 02:13	15°♌	
evening set	-8847 Sep 26 j 17:07	17°♌34'01	
conjunction	-8847 Oct 12 j 06:58	18°♌28'51	0°50'26
minimum elong	-8847 Oct 12 j 06:58	18°♌28'51	0°50'52
max. Earth dist.	-8847 Oct 13 j 14:11	18°♌33'27	20.65375 AU
morning rise	-8847 Oct 27 j 23:22	19°♌24'02	
retrograde	-8846 Jan 29 j 20:12	22°♌35'17	
opposition	-8846 Apr 17 j 21:08	20°♌35'36	0°54'18
min. Earth dist.	-8846 Apr 16 j 15:13	20°♌38'36	18.68427 AU
direct	-8846 Jul 02 j 21:51	18°♌38'12	
evening set	-8846 Sep 30 j 24:00	21°♌42'05	
conjunction	-8846 Oct 16 j 14:23	22°♌36'46	0°47'35
minimum elong	-8846 Oct 16 j 14:24	22°♌36'46	0°47'58
max. Earth dist.	-8846 Oct 17 j 21:48	22°♌41'24	20.71273 AU
morning rise	-8846 Nov 01 j 07:38	23°♌31'51	
retrograde	-8845 Feb 03 j 08:02	26°♌42'36	
min. Earth dist.	-8845 Apr 21 j 02:53	24°♌46'07	18.74122 AU
opposition	-8845 Apr 22 j 10:14	24°♌42'58	0°50'59
direct	-8845 Jul 07 j 09:08	22°♌45'49	
evening set	-8845 Oct 05 j 06:31	25°♌48'44	
conjunction	-8845 Oct 20 j 21:32	26°♌43'17	0°44'30
minimum elong	-8845 Oct 20 j 21:32	26°♌43'17	0°44'52
max. Earth dist.	-8845 Oct 22 j 05:55	26°♌48'01	20.76747 AU
morning rise	-8845 Nov 05 j 15:32	27°♌38'15	
	-8845 Dec 24 j 20:20	0°♍	

retrograde	-8844 Feb 07 j 17:27	0°♍48'30	
	-8844 Mar 25 j 06:34	30°℞♌	
opposition	-8844 Apr 25 j 22:30	28°♌48'55	0°47'26
min. Earth dist.	-8844 Apr 24 j 15:43	28°♌52'00	18.79384 AU
direct	-8844 Jul 10 j 18:09	26°♌51'59	
evening set	-8844 Oct 08 j 12:31	29°♌53'56	
	-8844 Oct 10 j 07:01	0°♍	
conjunction	-8844 Oct 24 j 04:11	0°♍48'22	0°41'13
minimum elong	-8844 Oct 24 j 04:12	0°♍48'22	0°41'33
max. Earth dist.	-8844 Oct 25 j 12:26	0°♍53'05	20.81807 AU
morning rise	-8844 Nov 08 j 23:08	1°♍43'16	
retrograde	-8843 Feb 11 j 04:24	4°♍53'01	
min. Earth dist.	-8843 Apr 29 j 02:07	2°♍56'37	18.84232 AU
opposition	-8843 Apr 30 j 10:01	2°♍53'25	0°43'40
direct	-8843 Jul 15 j 04:03	0°♍56'39	
evening set	-8843 Oct 12 j 17:58	3°♍57'42	
conjunction	-8843 Oct 28 j 10:24	4°♍52'03	0°37'44
minimum elong	-8843 Oct 28 j 10:24	4°♍52'03	0°38'02
max. Earth dist.	-8843 Oct 29 j 19:43	4°♍56'53	20.86444 AU
morning rise	-8843 Nov 13 j 06:15	5°♍46'52	
retrograde	-8842 Feb 15 j 12:42	8°♍56'09	
opposition	-8842 May 04 j 20:52	6°♍56'32	0°39'43
min. Earth dist.	-8842 May 03 j 13:32	6°♍59'40	18.88672 AU
direct	-8842 Jul 19 j 11:38	4°♍59'54	
evening set	-8842 Oct 16 j 23:13	8°♍00'07	
conjunction	-8842 Nov 01 j 16:24	8°♍54'22	0°34'06
minimum elong	-8842 Nov 01 j 16:25	8°♍54'22	0°34'22
max. Earth dist.	-8842 Nov 03 j 01:28	8°♍59'09	20.90706 AU
morning rise	-8842 Nov 17 j 13:17	9°♍49'08	
retrograde	-8841 Feb 19 j 22:44	12°♍57'58	
min. Earth dist.	-8841 May 07 j 22:32	11°♍01'31	18.92756 AU
opposition	-8841 May 09 j 06:40	10°♍58'18	0°35'36
direct	-8841 Jul 23 j 20:05	9°♍01'47	
evening set	-8841 Oct 21 j 04:06	12°♍01'15	
conjunction	-8841 Nov 05 j 22:09	12°♍55'26	0°30'19
minimum elong	-8841 Nov 05 j 22:09	12°♍55'26	0°30'32
max. Earth dist.	-8841 Nov 07 j 08:09	13°♍00'21	20.94606 AU
morning rise	-8841 Nov 21 j 19:56	13°♍50'09	
retrograde	-8840 Feb 24 j 06:29	16°♍58'35	
min. Earth dist.	-8840 May 11 j 08:25	15°♍02'03	18.96491 AU
opposition	-8840 May 12 j 15:57	14°♍58'53	0°31'19
direct	-8840 Jul 27 j 02:31	13°♍02'30	
evening set	-8840 Oct 24 j 08:40	16°♍01'16	
conjunction	-8840 Nov 09 j 03:31	16°♍55'24	0°26'24
minimum elong	-8840 Nov 09 j 03:32	16°♍55'25	0°26'36
max. Earth dist.	-8840 Nov 10 j 13:07	17°♍00'15	20.98187 AU
morning rise	-8840 Nov 25 j 02:22	17°♍50'06	
retrograde	-8839 Feb 27 j 15:45	20°♍58'11	
min. Earth dist.	-8839 May 15 j 16:22	19°♍01'41	18.99912 AU
opposition	-8839 May 17 j 00:35	18°♍58'28	0°26'55
direct	-8839 Jul 31 j 09:17	17°♍02'11	
evening set	-8839 Oct 28 j 13:08	20°♍00'22	
conjunction	-8839 Nov 13 j 08:57	20°♍54'29	0°22'23
minimum elong	-8839 Nov 13 j 08:57	20°♍54'29	0°22'32
max. Earth dist.	-8839 Nov 14 j 19:19	20°♍59'24	21.01437 AU
morning rise	-8839 Nov 29 j 08:46	21°♍49'09	
retrograde	-8838 Mar 03 j 23:17	24°♍56'55	
min. Earth dist.	-8838 May 20 j 01:11	23°♍00'22	19.02997 AU
opposition	-8838 May 21 j 08:38	22°♍57'12	0°22'24
direct	-8838 Aug 04 j 15:06	21°♍01'03	
evening set	-8838 Nov 01 j 17:33	23°♍58'44	

Attention, astronomical year style is used: The year -8838 in astronomical counting style is the year 8839 BCE in historical counting style.

conjunction	-8838 Nov 17 j 14:18	24°♍52'50	0°18'16
minimum elong	-8838 Nov 17 j 14:18	24°♍52'50	0°18'23
max. Earth dist.	-8838 Nov 18 j 23:49	24°♍57'37	21.04362 AU
morning rise	-8838 Dec 03 j 15:17	25°♍47'31	
retrograde	-8837 Mar 08 j 08:26	28°♍55'00	
min. Earth dist.	-8837 May 24 j 08:31	26°♍58'30	19.05736 AU
opposition	-8837 May 25 j 16:11	26°♍55'19	0°17'48
direct	-8837 Aug 08 j 20:15	24°♍59'16	
evening set	-8837 Nov 05 j 21:58	27°♍56'32	
conjunction	-8837 Nov 21 j 19:41	28°♍50'39	0°14'04
minimum elong	-8837 Nov 21 j 19:42	28°♍50'39	0°14'09
behind sun begin	-8837 Nov 21 j 16:27	28°♍50'12	
behind sun end	-8837 Nov 21 j 22:57	28°♍51'06	
max. Earth dist.	-8837 Nov 23 j 05:35	28°♍55'29	21.06901 AU
morning rise	-8837 Dec 07 j 21:38	29°♍45'21	
	-8837 Dec 12 j 07:41	0°♎	
retrograde	-8836 Mar 11 j 15:24	2°♎52'37	
opposition	-8836 May 28 j 23:14	0°♎52'59	0°13'06
min. Earth dist.	-8836 May 27 j 16:38	0°♎56'04	19.08074 AU
	-8836 Jun 20 j 18:19	30°℞♍	
direct	-8836 Aug 12 j 01:33	28°♍57'03	
	-8836 Oct 01 j 08:25	0°♎	
evening set	-8836 Nov 09 j 02:27	1°♎53'59	
conjunction	-8836 Nov 25 j 01:08	2°♎48'07	0°09'49
minimum elong	-8836 Nov 25 j 01:08	2°♎48'07	0°09'51
behind sun begin	-8836 Nov 24 j 19:45	2°♎47'22	
behind sun end	-8836 Nov 25 j 06:32	2°♎48'52	
max. Earth dist.	-8836 Nov 26 j 09:44	2°♎52'45	21.09045 AU
morning rise	-8836 Dec 11 j 04:14	3°♎42'51	
retrograde	-8835 Mar 16 j 00:42	6°♎49'57	
min. Earth dist.	-8835 May 31 j 23:39	4°♎53'24	19.09995 AU
opposition	-8835 Jun 02 j 05:57	4°♎50'21	0°08'21
direct	-8835 Aug 16 j 06:01	2°♎54'30	
evening set	-8835 Nov 13 j 07:02	5°♎51'12	
conjunction	-8835 Nov 29 j 06:48	6°♎45'22	0°05'31
minimum elong	-8835 Nov 29 j 06:48	6°♎45'22	0°05'32
behind sun begin	-8835 Nov 29 j 00:25	6°♎44'29	
behind sun end	-8835 Nov 29 j 13:10	6°♎46'15	
max. Earth dist.	-8835 Nov 30 j 15:21	6°♎50'00	21.10724 AU
morning rise	-8835 Dec 15 j 10:53	7°♎40'10	
retrograde	-8834 Mar 20 j 07:36	10°♎47'08	
min. Earth dist.	-8834 Jun 05 j 07:34	8°♎50'29	19.11421 AU
opposition	-8834 Jun 06 j 12:23	8°♎47'35	0°03'34
direct	-8834 Aug 20 j 10:31	6°♎51'47	
evening set	-8834 Nov 17 j 12:01	9°♎48'19	
conjunction	-8834 Dec 03 j 12:46	10°♎42'33	0°01'10
minimum elong	-8834 Dec 03 j 12:46	10°♎42'33	0°01'07
behind sun begin	-8834 Dec 03 j 06:08	10°♎41'38	
behind sun end	-8834 Dec 03 j 19:23	10°♎43'28	
max. Earth dist.	-8834 Dec 04 j 19:25	10°♎46'54	21.11899 AU
morning rise	-8834 Dec 19 j 18:00	11°♎37'24	
desc. node	-8833 Mar 10 j 22:50	14°♎39'44	
retrograde	-8833 Mar 24 j 16:58	14°♎44'16	
opposition	-8833 Jun 10 j 18:21	12°♎44'44	-0°01'14
min. Earth dist.	-8833 Jun 09 j 14:26	12°♎47'33	19.12321 AU
direct	-8833 Aug 24 j 15:05	10°♎48'57	
evening set	-8833 Nov 21 j 17:12	13°♎45'25	
conjunction	-8833 Dec 07 j 19:01	14°♎39'43	-0°03'17
minimum elong	-8833 Dec 07 j 19:02	14°♎39'43	0°03'21
behind sun begin	-8833 Dec 07 j 12:25	14°♎38'49	
behind sun end	-8833 Dec 08 j 01:38	14°♎40'38	
max. Earth dist.	-8833 Dec 09 j 01:05	14°♎43'59	21.12505 AU
morning rise	-8833 Dec 24 j 01:13	15°♎34'39	
retrograde	-8832 Mar 27 j 23:46	18°♎41'27	
min. Earth dist.	-8832 Jun 12 j 22:05	16°♎44'34	19.12630 AU
opposition	-8832 Jun 14 j 00:14	16°♎41'55	-0°06'01
direct	-8832 Aug 27 j 18:44	14°♎46'07	
evening set	-8832 Nov 24 j 22:28	17°♎42'32	
conjunction	-8832 Dec 11 j 01:19	18°♎36'56	-0°07'36
minimum elong	-8832 Dec 11 j 01:18	18°♎36'56	0°07'43
behind sun begin	-8832 Dec 10 j 19:18	18°♎36'06	
behind sun end	-8832 Dec 11 j 07:18	18°♎37'46	
max. Earth dist.	-8832 Dec 12 j 05:07	18°♎40'52	21.12531 AU
morning rise	-8832 Dec 27 j 08:38	19°♎31'57	
retrograde	-8831 Apr 01 j 08:52	22°♎38'43	
min. Earth dist.	-8831 Jun 17 j 04:57	20°♎41'40	19.12355 AU
opposition	-8831 Jun 18 j 05:55	20°♎39'09	-0°10'46
direct	-8831 Aug 31 j 23:48	18°♎43'15	
evening set	-8831 Nov 29 j 04:07	21°♎39'43	
conjunction	-8831 Dec 15 j 08:06	22°♎34'14	-0°11'52
minimum elong	-8831 Dec 15 j 08:06	22°♎34'14	0°12'00
behind sun begin	-8831 Dec 15 j 03:33	22°♎33'36	
behind sun end	-8831 Dec 15 j 12:38	22°♎34'51	
max. Earth dist.	-8831 Dec 16 j 11:06	22°♎38'03	21.11958 AU
morning rise	-8831 Dec 31 j 16:23	23°♎29'21	
retrograde	-8830 Apr 05 j 15:41	26°♎36'05	
opposition	-8830 Jun 22 j 11:14	24°♎36'27	-0°15'29
min. Earth dist.	-8830 Jun 21 j 12:12	24°♎38'47	19.11489 AU
direct	-8830 Sep 05 j 03:26	22°♎40'25	
evening set	-8830 Dec 03 j 10:06	25°♎37'00	
conjunction	-8830 Dec 19 j 15:06	26°♎31'37	-0°16'05
minimum elong	-8830 Dec 19 j 15:06	26°♎31'37	0°16'16
max. Earth dist.	-8830 Dec 20 j 15:36	26°♎35'05	21.10831 AU
morning rise	-8829 Jan 05 j 00:32	27°♎26'52	
	-8829 Mar 03 j 07:40	0°♏	
retrograde	-8829 Apr 10 j 00:12	0°♏33'36	
	-8829 May 18 j 02:55	30°℞♎	
opposition	-8829 Jun 26 j 16:24	28°♎33'52	-0°20'06
min. Earth dist.	-8829 Jun 25 j 18:45	28°♎36'04	19.10097 AU
direct	-8829 Sep 09 j 08:19	26°♎37'40	
evening set	-8829 Dec 07 j 16:15	29°♎34'26	
	-8829 Dec 15 j 07:35	0°♏	
conjunction	-8829 Dec 23 j 22:21	0°♏29'12	-0°20'13
minimum elong	-8829 Dec 23 j 22:21	0°♏29'12	0°20'27
max. Earth dist.	-8829 Dec 24 j 22:04	0°♏32'33	21.09182 AU
morning rise	-8828 Jan 09 j 08:37	1°♏24'33	
retrograde	-8828 Apr 13 j 07:21	4°♏31'20	
opposition	-8828 Jun 29 j 21:23	2°♏31'30	-0°24'38
min. Earth dist.	-8828 Jun 29 j 01:32	2°♏33'31	19.08211 AU
direct	-8828 Sep 12 j 12:32	0°♏35'07	
evening set	-8828 Dec 10 j 22:51	3°♏32'09	
conjunction	-8828 Dec 27 j 05:55	4°♏27'03	-0°24'16
minimum elong	-8828 Dec 27 j 05:55	4°♏27'03	0°24'31
max. Earth dist.	-8828 Dec 28 j 03:08	4°♏30'03	21.07093 AU
morning rise	-8827 Jan 12 j 17:16	5°♏22'33	
retrograde	-8827 Apr 17 j 15:22	8°♏29'25	
min. Earth dist.	-8827 Jul 03 j 07:48	6°♏31'21	19.05919 AU
opposition	-8827 Jul 04 j 02:16	6°♏29'28	-0°29'04
direct	-8827 Sep 16 j 16:44	4°♏32'52	
evening set	-8827 Dec 15 j 05:49	7°♏30'15	
conjunction	-8827 Dec 31 j 14:01	8°♏25'20	-0°28'12
minimum elong	-8827 Dec 31 j 14:01	8°♏25'20	0°28'31
max. Earth dist.	-8826 Jan 01 j 10:22	8°♏28'12	21.04597 AU

Attention, astronomical year style is used: The year -8826 in astronomical counting style is the year 8827 BCE in historical counting style.

morning rise	-8826 Jan 17 j 02:10	9°♏20'59	
retrograde	-8826 Apr 21 j 23:22	12°♏27'58	
opposition	-8826 Jul 08 j 07:09	10°♏27'56	-0°33'21
min. Earth dist.	-8826 Jul 07 j 14:27	10°♏29'39	19.03231 AU
direct	-8826 Sep 20 j 21:34	8°♏31'07	
evening set	-8826 Dec 19 j 13:26	11°♏28'57	
conjunction	-8825 Jan 04 j 22:32	12°♏24'12	-0°32'01
minimum elong	-8825 Jan 04 j 22:32	12°♏24'12	0°32'20
max. Earth dist.	-8825 Jan 05 j 16:08	12°♏26'41	21.01739 AU
morning rise	-8825 Jan 21 j 11:41	13°♏20'00	
	-8825 Feb 23 j 13:38	15°♏	
retrograde	-8825 Apr 26 j 07:22	16°♏27'10	
	-8825 Jun 28 j 22:45	15°℞♏	
opposition	-8825 Jul 12 j 11:59	14°♏27'04	-0°37'30
min. Earth dist.	-8825 Jul 11 j 20:50	14°♏28'37	19.00201 AU
direct	-8825 Sep 25 j 01:46	12°♏30'01	
	-8825 Dec 15 j 04:23	15°♏	
evening set	-8825 Dec 23 j 21:29	15°♏28'23	
conjunction	-8824 Jan 09 j 07:40	16°♏23'49	-0°35'41
minimum elong	-8824 Jan 09 j 07:40	16°♏23'49	0°36'03
max. Earth dist.	-8824 Jan 10 j 00:17	16°♏26'11	20.98533 AU
morning rise	-8824 Jan 25 j 21:30	17°♏19'48	
retrograde	-8824 Apr 29 j 15:52	20°♏27'11	
opposition	-8824 Jul 15 j 17:03	18°♏27'02	-0°41'29
min. Earth dist.	-8824 Jul 15 j 03:38	18°♏28'25	18.96826 AU
direct	-8824 Sep 28 j 06:51	16°♏29'47	
evening set	-8824 Dec 27 j 06:04	19°♏28'45	
conjunction	-8823 Jan 12 j 17:09	20°♏24'23	-0°39'13
minimum elong	-8823 Jan 12 j 17:08	20°♏24'23	0°39'35
max. Earth dist.	-8823 Jan 13 j 06:52	20°♏26'20	20.95006 AU
morning rise	-8823 Jan 29 j 07:56	21°♏20'33	
retrograde	-8823 May 04 j 01:04	24°♏28'13	
opposition	-8823 Jul 19 j 22:19	22°♏28'01	-0°45'17
min. Earth dist.	-8823 Jul 19 j 10:41	22°♏29'13	18.93131 AU
direct	-8823 Oct 02 j 11:47	20°♏30'32	
evening set	-8823 Dec 31 j 15:31	23°♏30'12	
conjunction	-8822 Jan 17 j 03:39	24°♏26'04	-0°42'33
minimum elong	-8822 Jan 17 j 03:39	24°♏26'04	0°42'58
max. Earth dist.	-8822 Jan 17 j 16:11	24°♏27'51	20.91134 AU
morning rise	-8822 Feb 02 j 19:03	25°♏22'25	
retrograde	-8822 May 08 j 10:04	28°♏30'22	
opposition	-8822 Jul 24 j 03:43	26°♏30'10	-0°48'54
min. Earth dist.	-8822 Jul 23 j 18:07	26°♏31'10	18.89077 AU
direct	-8822 Oct 06 j 17:13	24°♏32'27	
evening set	-8821 Jan 05 j 01:51	27°♏32'54	
conjunction	-8821 Jan 21 j 14:46	28°♏29'00	-0°45'42
minimum elong	-8821 Jan 21 j 14:46	28°♏29'00	0°46'09
max. Earth dist.	-8821 Jan 21 j 23:56	28°♏30'18	20.86909 AU
morning rise	-8821 Feb 07 j 07:00	29°♏25'33	
	-8821 Feb 17 j 20:14	0°♐	
retrograde	-8821 May 12 j 20:40	2°♐33'52	
opposition	-8821 Jul 28 j 09:34	0°♐33'37	-0°52'16
min. Earth dist.	-8821 Jul 28 j 02:09	0°♐34'23	18.84665 AU
	-8821 Aug 11 j 02:18	30°℞♏	
direct	-8821 Oct 10 j 23:09	28°♏35'39	
	-8821 Dec 08 j 18:02	0°♐	
evening set	-8820 Jan 09 j 12:45	1°♐36'57	
conjunction	-8820 Jan 26 j 02:38	2°♐33'17	-0°48'39
minimum elong	-8820 Jan 26 j 02:38	2°♐33'17	0°49'06
max. Earth dist.	-8820 Jan 26 j 10:22	2°♐34'23	20.82290 AU
morning rise	-8820 Feb 11 j 19:19	3°♐30'03	
retrograde	-8820 May 16 j 06:32	6°♐38'44	
opposition	-8820 Jul 31 j 15:47	4°♐38'28	-0°55'25
min. Earth dist.	-8820 Jul 31 j 10:32	4°♐39'01	18.79841 AU
direct	-8820 Oct 14 j 05:30	2°♐40'13	
evening set	-8819 Jan 13 j 00:43	5°♐42'26	
conjunction	-8819 Jan 29 j 15:18	6°♐39'00	-0°51'21
minimum elong	-8819 Jan 29 j 15:17	6°♐39'00	0°51'51
max. Earth dist.	-8819 Jan 29 j 19:15	6°♐39'34	20.77267 AU
morning rise	-8819 Feb 15 j 08:43	7°♐35'59	
retrograde	-8819 May 20 j 17:58	10°♐45'04	
opposition	-8819 Aug 04 j 22:22	8°♐44'44	-0°58'17
min. Earth dist.	-8819 Aug 04 j 19:39	8°♐45'01	18.74610 AU
direct	-8819 Oct 18 j 12:38	6°♐46'09	
evening set	-8818 Jan 17 j 13:25	9°♐49'20	
conjunction	-8818 Feb 03 j 04:58	10°♐46'11	-0°53'48
minimum elong	-8818 Feb 03 j 04:57	10°♐46'11	0°54'18
max. Earth dist.	-8818 Feb 03 j 07:07	10°♐46'29	20.71813 AU
morning rise	-8818 Feb 19 j 22:45	11°♐43'22	
retrograde	-8818 May 25 j 05:13	14°♐52'51	
opposition	-8818 Aug 09 j 05:28	12°♐52'27	-1°00'52
min. Earth dist.	-8818 Aug 09 j 04:58	12°♐52'30	18.68940 AU
direct	-8818 Oct 22 j 20:29	10°♐53'30	
evening set	-8817 Jan 22 j 03:04	13°♐57'42	
conjunction	-8817 Feb 07 j 19:10	14°♐54'48	-0°55'59
minimum elong	-8817 Feb 07 j 19:10	14°♐54'48	0°56'31
max. Earth dist.	-8817 Feb 07 j 17:19	14°♐54'32	20.65948 AU
morning rise	-8817 Feb 24 j 13:33	15°♐52'13	
retrograde	-8817 May 29 j 17:06	19°♐02'08	
opposition	-8817 Aug 13 j 12:57	17°♐01'37	-1°03'09
min. Earth dist.	-8817 Aug 13 j 15:05	17°♐01'23	18.62890 AU
direct	-8817 Oct 27 j 04:53	15°♐02'14	
evening set	-8816 Jan 26 j 17:18	18°♐07'30	
conjunction	-8816 Feb 12 j 10:15	19°♐04'53	-0°57'53
minimum elong	-8816 Feb 12 j 10:15	19°♐04'53	0°58'26
max. Earth dist.	-8816 Feb 12 j 06:46	19°♐04'22	20.59721 AU
morning rise	-8816 Feb 29 j 04:51	20°♐02'31	
retrograde	-8816 Jun 02 j 05:28	23°♐12'52	
opposition	-8816 Aug 16 j 20:53	21°♐12'13	-1°05'07
min. Earth dist.	-8816 Aug 17 j 01:00	21°♐11'47	18.56505 AU
direct	-8816 Oct 30 j 14:07	19°♐12'26	
evening set	-8815 Jan 30 j 08:23	22°♐18'48	
conjunction	-8815 Feb 16 j 01:50	23°♐16'26	-0°59'29
minimum elong	-8815 Feb 16 j 01:50	23°♐16'26	1°00'02
max. Earth dist.	-8815 Feb 15 j 18:31	23°♐15'23	20.53207 AU
morning rise	-8815 Mar 04 j 20:57	24°♐14'20	
retrograde	-8815 Jun 06 j 18:09	27°♐25'09	
opposition	-8815 Aug 21 j 05:22	25°♐24'21	-1°06'44
min. Earth dist.	-8815 Aug 21 j 12:04	25°♐23'39	18.49876 AU
direct	-8815 Nov 03 j 23:43	23°♐24'05	
evening set	-8814 Feb 04 j 00:18	26°♐31'38	
conjunction	-8814 Feb 20 j 18:29	27°♐29'34	-1°00'47
minimum elong	-8814 Feb 20 j 18:29	27°♐29'33	1°01'20
max. Earth dist.	-8814 Feb 20 j 09:44	27°♐28'17	20.46469 AU
morning rise	-8814 Mar 09 j 13:40	28°♐27'41	
	-8814 Apr 07 j 21:01	0°♑	
retrograde	-8814 Jun 11 j 07:43	1°♑38'58	
	-8814 Aug 16 j 22:01	30°℞♐	
opposition	-8814 Aug 25 j 14:14	29°♐38'03	-1°08'01
min. Earth dist.	-8814 Aug 25 j 22:40	29°♐37'09	18.43055 AU
direct	-8814 Nov 08 j 10:19	27°♐37'20	
	-8813 Jan 25 j 18:46	0°♑	

Attention, astronomical year style is used: The year -8813 in astronomical counting style is the year 8814 BCE in historical counting style.

evening set	-8813 Feb 08 j 17:10	0°♉46'06	
conjunction	-8813 Feb 25 j 11:40	1°♉44'18	-1°01'45
minimum elong	-8813 Feb 25 j 11:40	1°♉44'18	1°02'18
max. Earth dist.	-8813 Feb 24 j 23:16	1°♉42'30	20.39587 AU
morning rise	-8813 Mar 14 j 07:10	2°♉42'40	
retrograde	-8813 Jun 15 j 21:36	5°♉54'28	
opposition	-8813 Aug 29 j 23:54	3°♉53'25	-1°08'56
min. Earth dist.	-8813 Aug 30 j 10:45	3°♉52'16	18.36136 AU
direct	-8813 Nov 12 j 21:05	1°♉52'15	
evening set	-8812 Feb 13 j 10:30	5°♉02'16	
conjunction	-8812 Mar 01 j 05:35	6°♉00'46	-1°02'23
minimum elong	-8812 Mar 01 j 05:35	6°♉00'46	1°02'57
max. Earth dist.	-8812 Feb 29 j 16:05	5°♉58'47	20.32630 AU
morning rise	-8812 Mar 18 j 01:01	6°♉59'22	
retrograde	-8812 Jun 19 j 12:37	10°♉11'42	
opposition	-8812 Sep 02 j 10:09	8°♉10'33	-1°09'28
min. Earth dist.	-8812 Sep 02 j 22:16	8°♉09'15	18.29163 AU
direct	-8812 Nov 16 j 08:51	6°♉08'58	
evening set	-8811 Feb 17 j 05:01	9°♉20'17	
max. Earth dist.	-8811 Mar 05 j 07:23	10°♉16'35	20.25653 AU
conjunction	-8811 Mar 06 j 00:18	10°♉19'04	-1°02'41
minimum elong	-8811 Mar 06 j 00:18	10°♉19'04	1°03'14
morning rise	-8811 Mar 22 j 19:53	11°♉17'55	
retrograde	-8811 Jun 24 j 04:04	14°♉30'49	
opposition	-8811 Sep 06 j 21:03	12°♉29'34	-1°09'38
min. Earth dist.	-8811 Sep 07 j 11:38	12°♉28'01	18.22204 AU
direct	-8811 Nov 20 j 20:53	10°♉27'34	
evening set	-8810 Feb 22 j 00:21	13°♉40'15	
conjunction	-8810 Mar 10 j 20:05	14°♉39'19	-1°02'37
minimum elong	-8810 Mar 10 j 20:05	14°♉39'19	1°03'11
max. Earth dist.	-8810 Mar 10 j 02:01	14°♉36'39	20.18706 AU
morning rise	-8810 Mar 27 j 15:27	15°♉38'24	
retrograde	-8810 Jun 28 j 20:44	18°♉51'53	
opposition	-8810 Sep 11 j 08:48	16°♉50'36	-1°09'24
min. Earth dist.	-8810 Sep 12 j 00:27	16°♉48'55	18.15275 AU
direct	-8810 Nov 25 j 10:24	14°♉48'13	
evening set	-8809 Feb 26 j 20:38	18°♉02'17	
conjunction	-8809 Mar 15 j 16:23	19°♉01'38	-1°02'12
minimum elong	-8809 Mar 15 j 16:23	19°♉01'38	1°02'46
max. Earth dist.	-8809 Mar 14 j 19:11	18°♉58'29	20.11804 AU
morning rise	-8809 Apr 01 j 11:41	20°♉00'57	
retrograde	-8809 Jul 03 j 13:21	23°♉15'03	
opposition	-8809 Sep 15 j 21:23	21°♉13'44	-1°08'45
min. Earth dist.	-8809 Sep 16 j 15:31	21°♉11'47	18.08416 AU
direct	-8809 Nov 29 j 23:36	19°♉10'59	
evening set	-8808 Mar 02 j 17:44	22°♉26'27	
conjunction	-8808 Mar 19 j 13:43	23°♉26'05	-1°01'25
minimum elong	-8808 Mar 19 j 13:43	23°♉26'05	1°01'58
max. Earth dist.	-8808 Mar 18 j 15:24	23°♉22'46	20.04977 AU
morning rise	-8808 Apr 05 j 08:41	24°♉25'38	
retrograde	-8808 Jul 07 j 07:45	27°♉40'22	
opposition	-8808 Sep 19 j 10:41	25°♉39'01	-1°07'42
min. Earth dist.	-8808 Sep 20 j 05:48	25°♉36'57	18.01617 AU
direct	-8808 Dec 03 j 15:32	23°♉35'55	
evening set	-8807 Mar 07 j 15:56	26°♉52'48	
max. Earth dist.	-8807 Mar 23 j 10:35	27°♉48'56	19.98204 AU
conjunction	-8807 Mar 24 j 11:50	27°♉52'43	-1°00'16
minimum elong	-8807 Mar 24 j 11:50	27°♉52'43	1°00'48
morning rise	-8807 Apr 10 j 06:33	28°♉52'30	
	-8807 Apr 30 j 11:10	0°♒	
retrograde	-8807 Jul 12 j 01:08	2°♒07'50	
opposition	-8807 Sep 24 j 01:04	0°♒06'28	-1°06'14
min. Earth dist.	-8807 Sep 24 j 22:54	0°♒04'07	17.94880 AU
	-8807 Sep 26 j 12:59	30°℞♉	
direct	-8807 Dec 08 j 06:27	28°♉03'01	
	-8806 Feb 16 j 00:45	0°♒	
evening set	-8806 Mar 12 j 14:59	1°♒21'19	
max. Earth dist.	-8806 Mar 28 j 08:13	2°♒17'29	19.91487 AU
conjunction	-8806 Mar 29 j 10:54	2°♒21'30	-0°58'44
minimum elong	-8806 Mar 29 j 10:54	2°♒21'30	0°59'13
morning rise	-8806 Apr 15 j 05:08	3°♒21'28	
retrograde	-8806 Jul 16 j 20:51	6°♒37'26	
opposition	-8806 Sep 28 j 16:13	4°♒36'01	-1°04'20
min. Earth dist.	-8806 Sep 29 j 14:56	4°♒33'34	17.88185 AU
direct	-8806 Dec 13 j 01:15	2°♒32'13	
evening set	-8805 Mar 17 j 14:59	5°♒51'54	
max. Earth dist.	-8805 Apr 02 j 05:27	6°♒47'55	19.84816 AU
conjunction	-8805 Apr 03 j 10:39	6°♒52'19	-0°56'49
minimum elong	-8805 Apr 03 j 10:40	6°♒52'20	0°57'18
morning rise	-8805 Apr 20 j 04:22	7°♒52'30	
retrograde	-8805 Jul 21 j 14:58	11°♒09'03	
opposition	-8805 Oct 03 j 08:31	9°♒07'35	-1°02'02
min. Earth dist.	-8805 Oct 04 j 09:48	9°♒04'50	17.81564 AU
direct	-8805 Dec 17 j 18:30	7°♒03'24	
evening set	-8804 Mar 21 j 15:28	10°♒24'25	
max. Earth dist.	-8804 Apr 06 j 04:15	11°♒20'25	19.78240 AU
conjunction	-8804 Apr 07 j 10:56	11°♒25'04	-0°54'32
minimum elong	-8804 Apr 07 j 10:56	11°♒25'04	0°55'00
morning rise	-8804 Apr 24 j 04:07	12°♒25'25	
	-8804 Jun 15 j 13:43	15°♒	
retrograde	-8804 Jul 25 j 11:44	15°♒42'33	
	-8804 Sep 03 j 23:52	15°℞♒	
opposition	-8804 Oct 07 j 01:30	13°♒40'59	-0°59'19
min. Earth dist.	-8804 Oct 08 j 03:18	13°♒38'11	17.75040 AU
direct	-8804 Dec 21 j 16:01	11°♒36'26	
evening set	-8803 Mar 26 j 16:53	14°♒58'44	
	-8803 Mar 27 j 01:21	15°♒	
max. Earth dist.	-8803 Apr 11 j 03:32	15°♒54'40	19.71781 AU
conjunction	-8803 Apr 12 j 12:00	15°♒59'37	-0°51'53
minimum elong	-8803 Apr 12 j 12:00	15°♒59'37	0°52'19
morning rise	-8803 Apr 29 j 04:26	17°♒00'08	
retrograde	-8803 Jul 30 j 06:32	20°♒17'47	
opposition	-8803 Oct 11 j 19:23	18°♒16'08	-0°56'12
min. Earth dist.	-8803 Oct 12 j 23:33	18°♒13'04	17.68677 AU
direct	-8803 Dec 26 j 11:21	16°♒11'10	
evening set	-8802 Mar 31 j 18:53	19°♒34'45	
max. Earth dist.	-8802 Apr 16 j 03:38	20°♒30'37	19.65531 AU
conjunction	-8802 Apr 17 j 13:31	20°♒35'48	-0°48'54
minimum elong	-8802 Apr 17 j 13:31	20°♒35'48	0°49'19
morning rise	-8802 May 04 j 05:19	21°♒36'29	
retrograde	-8802 Aug 04 j 04:33	24°♒54'38	
opposition	-8802 Oct 16 j 14:05	22°♒52'52	-0°52'43
min. Earth dist.	-8802 Oct 17 j 18:22	22°♒49'48	17.62551 AU
direct	-8802 Dec 31 j 10:50	20°♒47'33	
evening set	-8801 Apr 05 j 21:12	24°♒12'17	
max. Earth dist.	-8801 Apr 21 j 04:51	25°♒08'14	19.59544 AU
conjunction	-8801 Apr 22 j 15:21	25°♒13'31	-0°45'35
minimum elong	-8801 Apr 22 j 15:21	25°♒13'31	0°45'58
morning rise	-8801 May 09 j 06:11	26°♒14'20	
retrograde	-8801 Aug 09 j 00:40	29°♒32'58	
opposition	-8801 Oct 21 j 09:45	27°♒31'06	-0°48'52

Attention, astronomical year style is used: The year -8801 in astronomical counting style is the year 8802 BCE in historical counting style.

min. Earth dist.	-8801 Oct 22 j 15:47	27°♒27'50	17.56738 AU
direct	-8800 Jan 05 j 08:01	25°♒25'25	
evening set	-8800 Apr 10 j 00:06	28°♒51'16	
max. Earth dist.	-8800 Apr 25 j 05:52	29°♒47'10	19.53926 AU
conjunction	-8800 Apr 26 j 17:30	29°♒52'39	-0°41'58
minimum elong	-8800 Apr 26 j 17:31	29°♒52'40	0°42'18
	-8800 Apr 28 j 17:06	0°♓	
morning rise	-8800 May 13 j 07:37	0°♓53'36	
retrograde	-8800 Aug 12 j 23:25	4°♓12'41	
opposition	-8800 Oct 25 j 05:55	2°♓10'43	-0°44'40
min. Earth dist.	-8800 Oct 26 j 11:40	2°♓07'28	17.51326 AU
direct	-8799 Jan 09 j 08:21	0°♓04'42	
evening set	-8799 Apr 15 j 03:20	3°♓31'36	
max. Earth dist.	-8799 Apr 30 j 08:52	4°♓27'41	19.48728 AU
conjunction	-8799 May 01 j 20:09	4°♓33'08	-0°38'03
minimum elong	-8799 May 01 j 20:09	4°♓33'08	0°38'21
morning rise	-8799 May 18 j 09:08	5°♓34'10	
retrograde	-8799 Aug 17 j 21:07	8°♓53'41	
opposition	-8799 Oct 30 j 03:13	6°♓51'39	-0°40'10
min. Earth dist.	-8799 Oct 31 j 10:06	6°♓48'17	17.46370 AU
direct	-8798 Jan 14 j 07:09	4°♓45'21	
evening set	-8798 Apr 20 j 06:59	8°♓13'14	
max. Earth dist.	-8798 May 05 j 10:35	9°♓09'15	19.44033 AU
conjunction	-8798 May 06 j 22:48	9°♓14'52	-0°33'52
minimum elong	-8798 May 06 j 22:48	9°♓14'52	0°34'07
morning rise	-8798 May 23 j 10:53	10°♓15'59	
retrograde	-8798 Aug 22 j 20:38	13°♓35'56	
opposition	-8798 Nov 04 j 01:10	11°♓33'50	-0°35'23
min. Earth dist.	-8798 Nov 05 j 07:19	11°♓30'33	17.41949 AU
direct	-8797 Jan 19 j 08:28	9°♓27'19	
evening set	-8797 Apr 25 j 10:47	12°♓56'07	
max. Earth dist.	-8797 May 10 j 14:55	13°♓52'23	19.39891 AU
conjunction	-8797 May 12 j 01:50	13°♓57'50	-0°29'26
minimum elong	-8797 May 12 j 01:51	13°♓57'50	0°29'40
morning rise	-8797 May 28 j 12:40	14°♓58'59	
retrograde	-8797 Aug 27 j 19:41	18°♓19'21	
opposition	-8797 Nov 09 j 00:01	16°♓17'15	-0°30'19
min. Earth dist.	-8797 Nov 10 j 06:33	16°♓13'55	17.38100 AU
direct	-8796 Jan 24 j 08:31	14°♓10'36	
evening set	-8796 Apr 29 j 14:51	17°♓40'12	
max. Earth dist.	-8796 May 14 j 17:12	18°♓36'24	19.36348 AU
conjunction	-8796 May 16 j 04:47	18°♓41'59	-0°24'47
minimum elong	-8796 May 16 j 04:47	18°♓41'59	0°24'58
morning rise	-8796 Jun 01 j 14:40	19°♓43'10	
retrograde	-8796 Aug 31 j 19:55	23°♓03'55	
opposition	-8796 Nov 12 j 23:30	21°♓01'50	-0°25'02
min. Earth dist.	-8796 Nov 14 j 05:16	20°♓58'36	17.34853 AU
direct	-8795 Jan 28 j 10:32	18°♓55'05	
evening set	-8795 May 04 j 19:05	22°♓25'27	
max. Earth dist.	-8795 May 19 j 22:19	23°♓21'57	19.33394 AU
conjunction	-8795 May 21 j 08:07	23°♓27'15	-0°19'57
minimum elong	-8795 May 21 j 08:07	23°♓27'15	0°20'06
morning rise	-8795 Jun 06 j 16:39	24°♓28'27	
retrograde	-8795 Sep 05 j 20:13	27°♓49'33	
opposition	-8795 Nov 17 j 23:48	25°♓47'32	-0°19'33
min. Earth dist.	-8795 Nov 19 j 05:27	25°♓44'18	17.32181 AU
direct	-8794 Feb 02 j 12:12	23°♓40'47	
evening set	-8794 May 09 j 23:37	27°♓11'45	
max. Earth dist.	-8794 May 25 j 01:11	28°♓08'12	19.31016 AU
conjunction	-8794 May 26 j 11:20	28°♓13'34	-0°14'58
minimum elong	-8794 May 26 j 11:20	28°♓13'34	0°15'03
behind sun begin	-8794 May 26 j 09:03	28°♓13'13	
behind sun end	-8794 May 26 j 13:36	28°♓13'55	
morning rise	-8794 Jun 11 j 18:45	29°♓14'45	
	-8794 Jun 24 j 08:43	0°♈	
retrograde	-8794 Sep 10 j 20:40	2°♈36'11	
opposition	-8794 Nov 23 j 00:52	0°♈34'14	-0°13'54
min. Earth dist.	-8794 Nov 24 j 05:51	0°♈31'05	17.30087 AU
	-8794 Dec 06 j 07:21	30°♑℞♓	
direct	-8793 Feb 07 j 15:21	28°♓27'29	
	-8793 Apr 09 j 12:06	0°♈	
evening set	-8793 May 15 j 03:50	1°♈58'58	
max. Earth dist.	-8793 May 30 j 06:22	2°♈55'41	19.29191 AU
conjunction	-8793 May 31 j 14:29	3°♈00'45	-0°09'52
minimum elong	-8793 May 31 j 14:29	3°♈00'45	0°09'54
behind sun begin	-8793 May 31 j 09:03	2°♈59'55	
behind sun end	-8793 May 31 j 19:55	3°♈01'35	
morning rise	-8793 Jun 16 j 20:33	4°♈01'54	
retrograde	-8793 Sep 15 j 21:28	7°♈23'36	
opposition	-8793 Nov 28 j 02:38	5°♈21'43	-0°08'09
min. Earth dist.	-8793 Nov 29 j 06:52	5°♈18'39	17.28515 AU
direct	-8792 Feb 12 j 19:10	3°♈15'01	
evening set	-8792 May 19 j 08:17	6°♈46'52	
max. Earth dist.	-8792 Jun 03 j 09:30	7°♈43'32	19.27878 AU
conjunction	-8792 Jun 04 j 17:34	7°♈48'36	-0°04'42
minimum elong	-8792 Jun 04 j 17:34	7°♈48'36	0°04'42
behind sun begin	-8792 Jun 04 j 11:02	7°♈47'35	
behind sun end	-8792 Jun 05 j 00:07	7°♈49'37	
morning rise	-8792 Jun 20 j 22:27	8°♈49'41	
retrograde	-8792 Sep 19 j 21:26	12°♈11'37	
opposition	-8792 Dec 02 j 04:48	10°♈09'46	-0°02'19
min. Earth dist.	-8792 Dec 03 j 08:34	10°♈06'46	17.27459 AU
direct	-8791 Feb 16 j 23:32	8°♈03'07	
asc. node	-8791 Apr 26 j 14:46	9°♈58'57	
evening set	-8791 May 24 j 12:30	11°♈35'14	
conjunction	-8791 Jun 09 j 20:34	12°♈36'52	0°00'38
minimum elong	-8791 Jun 09 j 20:35	12°♈36'52	0°00'41
behind sun begin	-8791 Jun 09 j 13:55	12°♈35'50	
behind sun end	-8791 Jun 10 j 03:15	12°♈37'53	
max. Earth dist.	-8791 Jun 08 j 14:24	12°♈32'05	19.27069 AU
morning rise	-8791 Jun 26 j 00:06	13°♈37'51	
retrograde	-8791 Sep 24 j 22:23	16°♈59'56	
opposition	-8791 Dec 07 j 07:39	14°♈58'08	0°03'32
min. Earth dist.	-8791 Dec 08 j 09:57	14°♈55'18	17.26882 AU
direct	-8790 Feb 22 j 05:31	12°♈51'34	
evening set	-8790 May 29 j 16:25	16°♈23'45	
conjunction	-8790 Jun 14 j 23:05	17°♈25'16	0°05'54
minimum elong	-8790 Jun 14 j 23:05	17°♈25'16	0°06'00
behind sun begin	-8790 Jun 14 j 16:44	17°♈24'17	
behind sun end	-8790 Jun 15 j 05:27	17°♈26'15	
max. Earth dist.	-8790 Jun 13 j 17:44	17°♈20'37	19.26739 AU
morning rise	-8790 Jul 01 j 01:19	18°♈26'09	
retrograde	-8790 Sep 29 j 21:59	21°♈48'20	
opposition	-8790 Dec 12 j 10:57	19°♈46'33	0°09'21
min. Earth dist.	-8790 Dec 13 j 12:40	19°♈43'47	17.26807 AU
direct	-8789 Feb 27 j 10:13	17°♈40'03	
evening set	-8789 Jun 03 j 19:55	21°♈12'11	
max. Earth dist.	-8789 Jun 18 j 21:51	22°♈09'13	19.26921 AU
conjunction	-8789 Jun 20 j 01:16	22°♈13'34	0°11'04
minimum elong	-8789 Jun 20 j 01:16	22°♈13'34	0°11'12
behind sun begin	-8789 Jun 19 j 20:20	22°♈12'48	
behind sun end	-8789 Jun 20 j 06:12	22°♈14'20	

Attention, astronomical year style is used: The year -8789 in astronomical counting style is the year 8790 BCE in historical counting style.

morning rise	-8789 Jul 06 j 02:15	23°♈14'19		
retrograde	-8789 Oct 04 j 23:17	26°♈36'31		
opposition	-8789 Dec 17 j 14:17	24°♈34'45	0°15'06	
min. Earth dist.	-8789 Dec 18 j 13:49	24°♈32'13	17.27233 AU	
direct	-8788 Mar 03 j 16:34	22°♈28'20		
evening set	-8788 Jun 07 j 22:53	26°♈00'17		
max. Earth dist.	-8788 Jun 23 j 01:14	26°♈57'25	19.27610 AU	
conjunction	-8788 Jun 24 j 02:56	27°♈01'30	0°16'09	
minimum elong	-8788 Jun 24 j 02:56	27°♈01'30	0°16'21	
morning rise	-8788 Jul 10 j 02:38	28°♈02'06		
	-8788 Aug 14 j 05:01	0°♉		
retrograde	-8788 Oct 08 j 22:38	1°♉24'15		
	-8788 Dec 06 j 23:28	30°℞♈		
opposition	-8788 Dec 21 j 18:01	29°♈22'30	0°20'44	
min. Earth dist.	-8788 Dec 22 j 16:51	29°♈20'02	17.28192 AU	
direct	-8787 Mar 08 j 20:19	27°♈16'11		
	-8787 May 30 j 20:22	0°♉		
evening set	-8787 Jun 13 j 01:16	0°♉47'48		
max. Earth dist.	-8787 Jun 28 j 04:09	1°♉45'02	19.28850 AU	
conjunction	-8787 Jun 29 j 03:54	1°♉48'49	0°21'07	
minimum elong	-8787 Jun 29 j 03:53	1°♉48'49	0°21'21	
morning rise	-8787 Jul 15 j 02:27	2°♉49'14		
retrograde	-8787 Oct 14 j 00:23	6°♉11'18		
opposition	-8787 Dec 26 j 21:43	4°♉09'32	0°26'12	
min. Earth dist.	-8787 Dec 27 j 17:40	4°♉07'24	17.29704 AU	
direct	-8786 Mar 14 j 02:41	2°♉03'21		
evening set	-8786 Jun 18 j 02:56	5°♉34'31		
max. Earth dist.	-8786 Jul 03 j 07:19	6°♉31'59	19.30655 AU	
conjunction	-8786 Jul 04 j 04:18	6°♉35'19	0°25'55	
minimum elong	-8786 Jul 04 j 04:17	6°♉35'19	0°26'12	
morning rise	-8786 Jul 20 j 01:33	7°♉35'33		
retrograde	-8786 Oct 18 j 23:04	10°♉57'28		
opposition	-8785 Jan 01 j 01:39	8°♉55'42	0°31'28	
min. Earth dist.	-8785 Jan 01 j 20:26	8°♉53'42	17.31814 AU	
direct	-8785 Mar 19 j 05:34	6°♉49'42		
evening set	-8785 Jun 23 j 03:48	10°♉20'16		
max. Earth dist.	-8785 Jul 08 j 08:47	11°♉17'49	19.33077 AU	
conjunction	-8785 Jul 09 j 03:45	11°♉20'50	0°30'32	
minimum elong	-8785 Jul 09 j 03:45	11°♉20'50	0°30'51	
morning rise	-8785 Jul 25 j 00:01	12°♉20'52		
	-8785 Sep 14 j 17:39	15°♉		
retrograde	-8785 Oct 24 j 00:34	15°♉42'36		
	-8785 Dec 03 j 14:44	15°℞♉		
opposition	-8784 Jan 06 j 05:18	13°♉40'51	0°36'30	
min. Earth dist.	-8784 Jan 06 j 20:40	13°♉39'12	17.34537 AU	
direct	-8784 Mar 23 j 11:26	11°♉35'03		
	-8784 Jun 25 j 19:57	15°♉		
evening set	-8784 Jun 27 j 03:58	15°♉04'57		
max. Earth dist.	-8784 Jul 12 j 11:13	16°♉02'49	19.36108 AU	
conjunction	-8784 Jul 13 j 02:45	16°♉05'16	0°34'55	
minimum elong	-8784 Jul 13 j 02:44	16°♉05'16	0°35'16	
morning rise	-8784 Jul 28 j 21:45	17°♉05'04		
retrograde	-8784 Oct 27 j 22:25	20°♉26'35		
opposition	-8783 Jan 10 j 08:55	18°♉24'53	0°41'16	
min. Earth dist.	-8783 Jan 10 j 22:46	18°♉23'25	17.37878 AU	
direct	-8783 Mar 28 j 14:11	16°♉19'23		
evening set	-8783 Jul 02 j 03:30	19°♉48'31		
max. Earth dist.	-8783 Jul 17 j 11:14	20°♉46'24	19.39767 AU	
conjunction	-8783 Jul 18 j 00:53	20°♉48'34	0°39'04	
minimum elong	-8783 Jul 18 j 00:52	20°♉48'34	0°39'28	
morning rise	-8783 Aug 02 j 19:01	21°♉48'08		
retrograde	-8783 Nov 01 j 22:56	25°♉09'23		
opposition	-8782 Jan 15 j 12:22	23°♉07'46	0°45'45	
min. Earth dist.	-8782 Jan 15 j 22:38	23°♉06'41	17.41832 AU	
direct	-8782 Apr 02 j 19:32	21°♉02'37		
evening set	-8782 Jul 07 j 01:57	24°♉30'53		
conjunction	-8782 Jul 22 j 22:18	25°♉30'39	0°42'56	
minimum elong	-8782 Jul 22 j 22:17	25°♉30'39	0°43'21	
max. Earth dist.	-8782 Jul 22 j 12:34	25°♉29'07	19.44008 AU	
morning rise	-8782 Aug 07 j 15:20	26°♉29'59		
retrograde	-8782 Nov 06 j 20:12	29°♉50'57		
opposition	-8781 Jan 20 j 15:44	27°♉49'28	0°49'54	
min. Earth dist.	-8781 Jan 21 j 00:10	27°♉48'34	17.46341 AU	
direct	-8781 Apr 07 j 22:08	25°♉44'42		
evening set	-8781 Jul 11 j 23:51	29°♉12'02		
	-8781 Jul 24 j 18:09	0°♊		
conjunction	-8781 Jul 27 j 18:55	0°♊11'31	0°46'31	
minimum elong	-8781 Jul 27 j 18:54	0°♊11'31	0°46'58	
max. Earth dist.	-8781 Jul 27 j 10:55	0°♊10'15	19.48780 AU	
morning rise	-8781 Aug 12 j 11:17	1°♊10'36		
retrograde	-8781 Nov 11 j 19:35	4°♊31'15		
opposition	-8780 Jan 25 j 18:29	2°♊29'54	0°53'42	
min. Earth dist.	-8780 Jan 25 j 23:44	2°♊29'20	17.51351 AU	
direct	-8780 Apr 12 j 01:48	0°♊25'32		
evening set	-8780 Jul 15 j 20:47	3°♊51'52		
conjunction	-8780 Jul 31 j 14:58	4°♊51'04	0°49'46	
minimum elong	-8780 Jul 31 j 14:57	4°♊51'04	0°50'15	
max. Earth dist.	-8780 Jul 31 j 10:46	4°♊50'24	19.54001 AU	
morning rise	-8780 Aug 16 j 06:22	5°♊49'53		
retrograde	-8780 Nov 15 j 16:19	9°♊10'11		
opposition	-8779 Jan 29 j 21:11	7°♊08'59	0°57'07	
min. Earth dist.	-8779 Jan 30 j 00:27	7°♊08'38	17.56761 AU	
direct	-8779 Apr 17 j 03:58	5°♊05'04		
evening set	-8779 Jul 20 j 16:59	8°♊30'18		
conjunction	-8779 Aug 05 j 09:58	9°♊29'12	0°52'41	
minimum elong	-8779 Aug 05 j 09:58	9°♊29'12	0°53'11	
max. Earth dist.	-8779 Aug 05 j 07:22	9°♊28'47	19.59592 AU	
morning rise	-8779 Aug 21 j 00:49	10°♊27'46		
retrograde	-8779 Nov 20 j 14:19	13°♊47'41		
opposition	-8778 Feb 03 j 23:28	11°♊46'37	1°00'10	
min. Earth dist.	-8778 Feb 03 j 23:52	11°♊46'34	17.62519 AU	
direct	-8778 Apr 22 j 05:40	9°♊43'07		
evening set	-8778 Jul 25 j 12:15	13°♊07'13		
conjunction	-8778 Aug 10 j 04:30	14°♊05'48	0°55'14	
minimum elong	-8778 Aug 10 j 04:29	14°♊05'48	0°55'46	
max. Earth dist.	-8778 Aug 10 j 05:30	14°♊05'58	19.65485 AU	
morning rise	-8778 Aug 25 j 18:35	15°♊04'06		
retrograde	-8778 Nov 25 j 10:40	18°♊23'35		
opposition	-8777 Feb 09 j 01:14	16°♊22'40	1°02'47	
min. Earth dist.	-8777 Feb 08 j 23:23	16°♊22'51	17.68532 AU	
direct	-8777 Apr 27 j 07:00	14°♊19'36		
evening set	-8777 Jul 30 j 06:42	17°♊42'28		
conjunction	-8777 Aug 14 j 21:59	18°♊40'45	0°57'25	
minimum elong	-8777 Aug 14 j 21:59	18°♊40'45	0°57'57	
max. Earth dist.	-8777 Aug 15 j 00:26	18°♊41'08	19.71605 AU	
morning rise	-8777 Aug 30 j 11:44	19°♊38'48		
retrograde	-8777 Nov 30 j 07:00	22°♊57'49		
opposition	-8776 Feb 14 j 02:24	20°♊57'00	1°04'59	
min. Earth dist.	-8776 Feb 13 j 22:14	20°♊57'26	17.74752 AU	
direct	-8776 May 01 j 06:19	18°♊54'20		
evening set	-8776 Aug 03 j 00:08	22°♊15'57		

Attention, astronomical year style is used: The year -8776 in astronomical counting style is the year 8777 BCE in historical counting style.

conjunction	-8776 Aug 18 j 14:50	23°♊13'56	0°59'13
minimum elong	-8776 Aug 18 j 14:50	23°♊13'56	0°59'47
max. Earth dist.	-8776 Aug 18 j 20:34	23°♊14'49	19.77897 AU
morning rise	-8776 Sep 03 j 04:00	24°♊11'43	
retrograde	-8776 Dec 04 j 02:28	27°♊30'13	
opposition	-8775 Feb 18 j 02:53	25°♊29'30	1°06'46
min. Earth dist.	-8775 Feb 17 j 20:12	25°♊30'11	17.81105 AU
direct	-8775 May 06 j 06:34	23°♊27'14	
evening set	-8775 Aug 07 j 16:47	26°♊47'32	
conjunction	-8775 Aug 23 j 06:43	27°♊45'12	1°00'39
minimum elong	-8775 Aug 23 j 06:42	27°♊45'12	1°01'12
max. Earth dist.	-8775 Aug 23 j 13:59	27°♊46'20	19.84316 AU
morning rise	-8775 Sep 07 j 19:42	28°♊42'44	
	-8775 Sep 30 j 06:50	0°♋	
retrograde	-8775 Dec 08 j 21:24	2°♋00'43	
opposition	-8774 Feb 23 j 02:49	0°♋00'03	1°08'06
min. Earth dist.	-8774 Feb 22 j 18:10	0°♋00'56	17.87594 AU
	-8774 Feb 23 j 03:16	30°℞♊	
direct	-8774 May 11 j 03:50	27°♊58'09	
	-8774 Jul 20 j 19:53	0°♋	
evening set	-8774 Aug 12 j 08:10	1°♋17'05	
conjunction	-8774 Aug 27 j 21:44	2°♋14'28	1°01'41
minimum elong	-8774 Aug 27 j 21:44	2°♋14'28	1°02'15
max. Earth dist.	-8774 Aug 28 j 08:09	2°♋16'05	19.90859 AU
morning rise	-8774 Sep 12 j 10:25	3°♋11'45	
retrograde	-8774 Dec 13 j 15:57	6°♋29'09	
opposition	-8773 Feb 28 j 01:49	4°♋28'32	1°09'02
min. Earth dist.	-8773 Feb 27 j 14:19	4°♋29'43	17.94183 AU
direct	-8773 May 16 j 02:22	2°♋27'01	
evening set	-8773 Aug 16 j 22:49	5°♋44'33	
conjunction	-8773 Sep 01 j 11:50	6°♋41'39	1°02'20
minimum elong	-8773 Sep 01 j 11:50	6°♋41'39	1°02'54
max. Earth dist.	-8773 Sep 01 j 24:00	6°♋43'31	19.97501 AU
morning rise	-8773 Sep 17 j 00:32	7°♋38'41	
retrograde	-8773 Dec 18 j 09:27	10°♋55'29	
opposition	-8772 Mar 03 j 23:54	8°♋54'54	1°09'31
min. Earth dist.	-8772 Mar 03 j 10:47	8°♋56'15	18.00895 AU
direct	-8772 May 19 j 21:51	6°♋53'43	
evening set	-8772 Aug 20 j 12:23	10°♋09'54	
conjunction	-8772 Sep 05 j 01:09	11°♋06'42	1°02'37
minimum elong	-8772 Sep 05 j 01:09	11°♋06'42	1°03'11
max. Earth dist.	-8772 Sep 05 j 16:15	11°♋09'02	20.04271 AU
morning rise	-8772 Sep 20 j 13:44	12°♋03'30	
retrograde	-8772 Dec 22 j 02:39	15°♋19'42	
opposition	-8771 Mar 08 j 21:11	13°♋19'10	1°09'36
min. Earth dist.	-8771 Mar 08 j 04:53	13°♋20'50	18.07722 AU
direct	-8771 May 24 j 18:40	11°♋18'21	
evening set	-8771 Aug 25 j 01:01	14°♋33'08	
conjunction	-8771 Sep 09 j 13:26	15°♋29'40	1°02'32
minimum elong	-8771 Sep 09 j 13:26	15°♋29'40	1°03'06
max. Earth dist.	-8771 Sep 10 j 06:35	15°♋32'18	20.11155 AU
morning rise	-8771 Sep 25 j 02:10	16°♋26'15	
retrograde	-8771 Dec 26 j 18:58	19°♋41'51	
opposition	-8770 Mar 13 j 17:49	17°♋41'21	1°09'18
min. Earth dist.	-8770 Mar 12 j 23:59	17°♋43'11	18.14681 AU
direct	-8770 May 29 j 12:24	15°♋40'56	
evening set	-8770 Aug 29 j 12:50	18°♋54'21	
conjunction	-8770 Sep 14 j 01:12	19°♋50'38	1°02'06
minimum elong	-8770 Sep 14 j 01:12	19°♋50'38	1°02'39
max. Earth dist.	-8770 Sep 14 j 20:58	19°♋53'39	20.18169 AU
morning rise	-8770 Sep 29 j 14:02	20°♋46'59	
retrograde	-8770 Dec 31 j 10:58	24°♋01'59	
opposition	-8769 Mar 18 j 13:13	22°♋01'35	1°08'35
min. Earth dist.	-8769 Mar 17 j 16:14	22°♋03'43	18.21738 AU
direct	-8769 Jun 03 j 07:05	20°♋01'34	
evening set	-8769 Sep 02 j 23:53	23°♋13'40	
conjunction	-8769 Sep 18 j 12:09	24°♋09'41	1°01'19
minimum elong	-8769 Sep 18 j 12:09	24°♋09'41	1°01'52
max. Earth dist.	-8769 Sep 19 j 09:50	24°♋12'59	20.25253 AU
morning rise	-8769 Oct 04 j 01:19	25°♋05'51	
retrograde	-8768 Jan 05 j 01:27	28°♋20'15	
min. Earth dist.	-8768 Mar 21 j 10:01	26°♋22'12	18.28850 AU
opposition	-8768 Mar 22 j 08:03	26°♋19'58	1°07'30
direct	-8768 Jun 06 j 23:10	24°♋20'22	
evening set	-8768 Sep 06 j 10:02	27°♋31'10	
conjunction	-8768 Sep 21 j 22:24	28°♋26'57	1°00'12
minimum elong	-8768 Sep 21 j 22:24	28°♋26'57	1°00'43
max. Earth dist.	-8768 Sep 22 j 22:15	28°♋30'33	20.32370 AU
morning rise	-8768 Oct 07 j 11:51	29°♋22'54	
	-8768 Oct 18 j 05:33	0°♌	
retrograde	-8767 Jan 08 j 16:38	2°♌36'46	
min. Earth dist.	-8767 Mar 26 j 00:58	0°♌39'07	18.35948 AU
opposition	-8767 Mar 27 j 01:56	0°♌36'35	1°06'02
	-8767 Apr 11 j 08:55	30°℞♋	
direct	-8767 Jun 11 j 15:47	28°♋37'24	
	-8767 Aug 08 j 04:31	0°♌	
evening set	-8767 Sep 10 j 19:40	1°♌46'57	
conjunction	-8767 Sep 26 j 08:06	2°♌42'31	0°58'45
minimum elong	-8767 Sep 26 j 08:06	2°♌42'31	0°59'16
max. Earth dist.	-8767 Sep 27 j 09:45	2°♌46'22	20.39432 AU
morning rise	-8767 Oct 11 j 22:02	3°♌38'17	
retrograde	-8766 Jan 13 j 05:25	6°♌51'35	
opposition	-8766 Mar 31 j 19:10	4°♌51'32	1°04'14
min. Earth dist.	-8766 Mar 30 j 17:41	4°♌54'07	18.42971 AU
direct	-8766 Jun 16 j 05:58	2°♌52'46	
evening set	-8766 Sep 15 j 04:34	6°♌01'05	
conjunction	-8766 Sep 30 j 17:17	6°♌56'26	0°56'59
minimum elong	-8766 Sep 30 j 17:18	6°♌56'26	0°57'29
max. Earth dist.	-8766 Oct 01 j 20:29	7°♌00'31	20.46387 AU
morning rise	-8766 Oct 16 j 07:44	7°♌52'02	
retrograde	-8765 Jan 17 j 19:47	11°♌04'48	
min. Earth dist.	-8765 Apr 04 j 07:33	9°♌07'41	18.49830 AU
opposition	-8765 Apr 05 j 11:24	9°♌04'52	1°02'05
direct	-8765 Jun 20 j 20:46	7°♌06'29	
evening set	-8765 Sep 19 j 13:04	10°♌13'37	
conjunction	-8765 Oct 05 j 02:01	11°♌08'47	0°54'55
minimum elong	-8765 Oct 05 j 02:01	11°♌08'47	0°55'23
max. Earth dist.	-8765 Oct 06 j 06:37	11°♌13'03	20.53123 AU
morning rise	-8765 Oct 20 j 17:01	12°♌04'14	
	-8765 Dec 27 j 15:17	15°♌	
retrograde	-8764 Jan 22 j 07:00	15°♌16'26	
	-8764 Feb 17 j 11:37	15°℞♌	
min. Earth dist.	-8764 Apr 07 j 23:03	13°♌19'26	18.56447 AU
opposition	-8764 Apr 09 j 02:53	13°♌16'37	0°59'36
direct	-8764 Jun 24 j 08:55	11°♌18'36	
evening set	-8764 Sep 22 j 20:58	14°♌24'36	
	-8764 Oct 02 j 22:25	15°♌	
conjunction	-8764 Oct 08 j 10:19	15°♌19'35	0°52'35
minimum elong	-8764 Oct 08 j 10:19	15°♌19'35	0°53'01
max. Earth dist.	-8764 Oct 09 j 15:48	15°♌23'57	20.59598 AU
morning rise	-8764 Oct 24 j 01:56	16°♌14'52	
retrograde	-8763 Jan 25 j 20:30	19°♌26'33	

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

min. Earth dist.	-8763 Apr 12 j 11:50	17°♌29'49	18.62758 AU
opposition	-8763 Apr 13 j 17:36	17°♌26'50	0°56'49
direct	-8763 Jun 28 j 22:00	15°♌29'07	
evening set	-8763 Sep 27 j 04:18	18°♌34'02	
conjunction	-8763 Oct 12 j 18:06	19°♌28'51	0°49'58
minimum elong	-8763 Oct 12 j 18:06	19°♌28'51	0°50'22
max. Earth dist.	-8763 Oct 14 j 00:43	19°♌33'22	20.65722 AU
morning rise	-8763 Oct 28 j 10:27	20°♌24'01	
retrograde	-8762 Jan 30 j 06:30	23°♌35'11	
min. Earth dist.	-8762 Apr 17 j 02:16	21°♌38'27	18.68700 AU
opposition	-8762 Apr 18 j 07:39	21°♌35'30	0°53'46
direct	-8762 Jul 03 j 08:45	19°♌38'04	
evening set	-8762 Oct 01 j 11:13	22°♌41'55	
conjunction	-8762 Oct 17 j 01:35	23°♌36'35	0°47'06
minimum elong	-8762 Oct 17 j 01:35	23°♌36'35	0°47'30
max. Earth dist.	-8762 Oct 18 j 08:34	23°♌41'09	20.71471 AU
morning rise	-8762 Nov 01 j 18:44	24°♌31'39	
retrograde	-8761 Feb 03 j 18:52	27°♌42'17	
opposition	-8761 Apr 22 j 20:33	25°♌42'38	0°50'27
min. Earth dist.	-8761 Apr 21 j 13:43	25°♌45'44	18.74242 AU
direct	-8761 Jul 07 j 20:04	23°♌45'26	
evening set	-8761 Oct 05 j 17:39	26°♌48'17	
conjunction	-8761 Oct 21 j 08:37	27°♌42'50	0°44'01
minimum elong	-8761 Oct 21 j 08:37	27°♌42'50	0°44'23
max. Earth dist.	-8761 Oct 22 j 16:29	27°♌47'30	20.76801 AU
morning rise	-8761 Nov 06 j 02:35	28°♌37'47	
	-8761 Dec 01 j 18:04	0°♍	
retrograde	-8760 Feb 08 j 03:45	1°♍47'55	
	-8760 Apr 21 j 11:50	30°℞♌	
min. Earth dist.	-8760 Apr 25 j 02:40	29°♌51'19	18.79373 AU
opposition	-8760 Apr 26 j 08:55	29°♌48'17	0°46'54
direct	-8760 Jul 11 j 05:32	27°♌51'17	
	-8760 Sep 22 j 19:48	0°♍	
evening set	-8760 Oct 08 j 23:24	0°♍53'10	
conjunction	-8760 Oct 24 j 15:03	1°♍47'35	0°40'44
minimum elong	-8760 Oct 24 j 15:03	1°♍47'35	0°41'04
max. Earth dist.	-8760 Oct 25 j 23:09	1°♍52'17	20.81745 AU
morning rise	-8760 Nov 09 j 09:55	2°♍42'28	
retrograde	-8759 Feb 11 j 14:49	5°♍52'08	
opposition	-8759 Apr 30 j 20:25	3°♍52'27	0°43'09
min. Earth dist.	-8759 Apr 29 j 12:48	3°♍55'38	18.84128 AU
direct	-8759 Jul 15 j 15:14	1°♍55'37	
evening set	-8759 Oct 13 j 04:55	4°♍56'38	
conjunction	-8759 Oct 28 j 21:17	5°♍50'57	0°37'16
minimum elong	-8759 Oct 28 j 21:17	5°♍50'57	0°37'34
max. Earth dist.	-8759 Oct 30 j 06:20	5°♍55'46	20.86315 AU
morning rise	-8759 Nov 13 j 17:03	6°♍45'45	
retrograde	-8758 Feb 15 j 22:57	9°♍54'58	
min. Earth dist.	-8758 May 04 j 00:07	7°♍58'24	18.88533 AU
opposition	-8758 May 05 j 07:09	7°♍55'17	0°39'12
direct	-8758 Jul 19 j 23:14	5°♍58'36	
evening set	-8758 Oct 17 j 10:04	8°♍58'48	
conjunction	-8758 Nov 02 j 03:13	9°♍53'03	0°33'38
minimum elong	-8758 Nov 02 j 03:13	9°♍53'03	0°33'53
max. Earth dist.	-8758 Nov 03 j 12:16	9°♍57'50	20.90563 AU
morning rise	-8758 Nov 17 j 23:59	10°♍47'48	
retrograde	-8757 Feb 20 j 09:05	13°♍56'36	
min. Earth dist.	-8757 May 08 j 08:54	12°♍00'07	18.92620 AU
opposition	-8757 May 09 j 17:04	11°♍56'54	0°35'05
direct	-8757 Jul 24 j 07:15	10°♍00'21	
evening set	-8757 Oct 21 j 14:56	12°♍59'51	

conjunction	-8757 Nov 06 j 08:52	13°♍54'02	0°29'52
minimum elong	-8757 Nov 06 j 08:52	13°♍54'02	0°30'05
max. Earth dist.	-8757 Nov 07 j 18:43	13°♍58'55	20.94479 AU
morning rise	-8757 Nov 22 j 06:34	14°♍48'44	
retrograde	-8756 Feb 24 j 16:35	17°♍57'11	
min. Earth dist.	-8756 May 11 j 18:51	16°♍00'39	18.96383 AU
opposition	-8756 May 13 j 02:23	15°♍57'29	0°30'49
direct	-8756 Jul 27 j 13:36	14°♍01'07	
evening set	-8756 Oct 24 j 19:35	16°♍59'57	
conjunction	-8756 Nov 09 j 14:23	17°♍54'05	0°25'57
minimum elong	-8756 Nov 09 j 14:23	17°♍54'05	0°26'08
max. Earth dist.	-8756 Nov 10 j 23:57	17°♍58'55	20.98098 AU
morning rise	-8756 Nov 25 j 13:08	18°♍48'47	
retrograde	-8755 Feb 28 j 02:27	21°♍56'54	
min. Earth dist.	-8755 May 16 j 02:44	20°♍00'29	18.99839 AU
opposition	-8755 May 17 j 11:06	19°♍57'14	0°26'26
direct	-8755 Jul 31 j 20:24	18°♍01'00	
evening set	-8755 Oct 29 j 00:03	20°♍59'17	
conjunction	-8755 Nov 13 j 19:48	21°♍53'25	0°21'56
minimum elong	-8755 Nov 13 j 19:48	21°♍53'25	0°22'06
max. Earth dist.	-8755 Nov 15 j 05:57	21°♍58'19	21.01378 AU
morning rise	-8755 Nov 29 j 19:34	22°♍48'06	
retrograde	-8754 Mar 04 j 09:45	25°♍55'57	
min. Earth dist.	-8754 May 20 j 11:57	23°♍59'29	19.02939 AU
opposition	-8754 May 21 j 19:22	23°♍56'20	0°21'55
direct	-8754 Aug 05 j 01:13	22°♍00'15	
evening set	-8754 Nov 02 j 04:37	24°♍58'03	
conjunction	-8754 Nov 18 j 01:17	25°♍52'10	0°17'49
minimum elong	-8754 Nov 18 j 01:17	25°♍52'10	0°17'55
max. Earth dist.	-8754 Nov 19 j 10:43	25°♍56'57	21.04302 AU
morning rise	-8754 Dec 04 j 02:09	26°♍46'52	
retrograde	-8753 Mar 08 j 19:22	29°♍54'28	
min. Earth dist.	-8753 May 24 j 19:15	27°♍58'05	19.05662 AU
opposition	-8753 May 26 j 02:54	27°♍54'54	0°17'18
direct	-8753 Aug 09 j 07:22	25°♍58'57	
evening set	-8753 Nov 06 j 09:10	28°♍56'22	
conjunction	-8753 Nov 22 j 06:49	29°♍50'30	0°13'38
minimum elong	-8753 Nov 22 j 06:49	29°♍50'30	0°13'42
behind sun begin	-8753 Nov 22 j 03:14	29°♍50'00	
behind sun end	-8753 Nov 22 j 10:24	29°♍51'00	
max. Earth dist.	-8753 Nov 23 j 16:25	29°♍55'18	21.06808 AU
	-8753 Nov 25 j 01:17	0°♎	
morning rise	-8753 Dec 08 j 08:41	0°♎45'13	
retrograde	-8752 Mar 12 j 02:48	3°♎52'38	
min. Earth dist.	-8752 May 28 j 03:55	1°♎56'10	19.07945 AU
opposition	-8752 May 29 j 10:14	1°♎53'07	0°12'37
	-8752 Aug 02 j 05:41	30°℞♍	
direct	-8752 Aug 12 j 11:20	29°♍57'17	
	-8752 Aug 22 j 18:08	0°♎	
evening set	-8752 Nov 09 j 13:41	2°♎54'23	
conjunction	-8752 Nov 25 j 12:18	3°♎48'32	0°09'23
minimum elong	-8752 Nov 25 j 12:18	3°♎48'32	0°09'24
behind sun begin	-8752 Nov 25 j 06:46	3°♎47'46	
behind sun end	-8752 Nov 25 j 17:50	3°♎49'18	
max. Earth dist.	-8752 Nov 26 j 20:46	3°♎53'10	21.08871 AU
morning rise	-8752 Dec 11 j 15:18	4°♎43'18	
retrograde	-8751 Mar 16 j 12:00	7°♎50'34	
min. Earth dist.	-8751 Jun 01 j 11:07	5°♎54'06	19.09759 AU
opposition	-8751 Jun 02 j 17:10	5°♎51'05	0°07'53
direct	-8751 Aug 16 j 17:00	3°♎55'19	
evening set	-8751 Nov 13 j 18:34	6°♎52'11	

Attention, astronomical year style is used: The year -8751 in astronomical counting style is the year 8752 BCE in historical counting style.

conjunction	-8751 Nov 29 j 18:13	7°♎46'22	0°05'06
minimum elong	-8751 Nov 29 j 18:13	7°♎46'22	0°05'05
behind sun begin	-8751 Nov 29 j 11:47	7°♎45'29	
behind sun end	-8751 Nov 30 j 00:39	7°♎47'16	
max. Earth dist.	-8751 Dec 01 j 02:21	7°♎50'57	21.10415 AU
morning rise	-8751 Dec 15 j 22:14	8°♎41'11	
retrograde	-8750 Mar 20 j 19:44	11°♎48'19	
opposition	-8750 Jun 06 j 23:41	9°♎48'51	0°03'06
min. Earth dist.	-8750 Jun 05 j 19:25	9°♎51'42	19.11029 AU
direct	-8750 Aug 20 j 21:12	7°♎53'07	
evening set	-8750 Nov 17 j 23:38	10°♎49'49	
conjunction	-8750 Dec 04 j 00:20	11°♎44'04	0°00'44
minimum elong	-8750 Dec 04 j 00:19	11°♎44'04	0°00'41
behind sun begin	-8750 Dec 03 j 17:42	11°♎43'09	
behind sun end	-8750 Dec 04 j 06:56	11°♎44'59	
max. Earth dist.	-8750 Dec 05 j 06:37	11°♎48'22	21.11413 AU
morning rise	-8750 Dec 20 j 05:27	12°♎38'56	
desc. node	-8749 Feb 03 j 15:46	14°♎49'01	
retrograde	-8749 Mar 25 j 04:30	15°♎45'58	
min. Earth dist.	-8749 Jun 10 j 02:24	13°♎49'15	19.11732 AU
opposition	-8749 Jun 11 j 05:56	13°♎46'29	-0°01'41
direct	-8749 Aug 25 j 01:57	11°♎50'43	
evening set	-8749 Nov 22 j 04:48	14°♎47'18	
conjunction	-8749 Dec 08 j 06:32	15°♎41'38	-0°03'42
minimum elong	-8749 Dec 08 j 06:31	15°♎41'38	0°03'47
behind sun begin	-8749 Dec 07 j 23:57	15°♎40'44	
behind sun end	-8749 Dec 08 j 13:06	15°♎42'32	
max. Earth dist.	-8749 Dec 09 j 12:05	15°♎45'49	21.11810 AU
morning rise	-8749 Dec 24 j 12:38	16°♎36'35	
retrograde	-8748 Mar 28 j 11:46	19°♎43'31	
min. Earth dist.	-8748 Jun 13 j 10:18	17°♎46'35	19.11831 AU
opposition	-8748 Jun 14 j 11:57	17°♎43'59	-0°06'27
direct	-8748 Aug 28 j 06:49	15°♎48'10	
evening set	-8748 Nov 25 j 10:12	18°♎44'41	
conjunction	-8748 Dec 11 j 12:58	19°♎39'06	-0°07'58
minimum elong	-8748 Dec 11 j 12:58	19°♎39'06	0°08'05
behind sun begin	-8748 Dec 11 j 07:03	19°♎38'17	
behind sun end	-8748 Dec 11 j 18:53	19°♎39'55	
max. Earth dist.	-8748 Dec 12 j 16:26	19°♎43'00	21.11637 AU
morning rise	-8748 Dec 27 j 20:13	20°♎34'08	
retrograde	-8747 Apr 01 j 20:15	23°♎41'01	
opposition	-8747 Jun 18 j 17:35	21°♎41'23	-0°11'11
min. Earth dist.	-8747 Jun 17 j 16:54	21°♎43'53	19.11372 AU
direct	-8747 Sep 01 j 11:07	19°♎45'26	
evening set	-8747 Nov 29 j 15:48	22°♎41'58	
conjunction	-8747 Dec 15 j 19:42	23°♎36'30	-0°12'13
minimum elong	-8747 Dec 15 j 19:42	23°♎36'30	0°12'23
behind sun begin	-8747 Dec 15 j 15:21	23°♎35'54	
behind sun end	-8747 Dec 16 j 00:03	23°♎37'06	
max. Earth dist.	-8747 Dec 16 j 22:17	23°♎40'15	21.10902 AU
morning rise	-8746 Jan 01 j 03:56	24°♎31'38	
retrograde	-8746 Apr 06 j 02:59	27°♎38'27	
opposition	-8746 Jun 22 j 23:02	25°♎38'44	-0°15'51
min. Earth dist.	-8746 Jun 22 j 00:16	25°♎41'02	19.10372 AU
direct	-8746 Sep 05 j 15:57	23°♎42'37	
evening set	-8746 Dec 03 j 21:47	26°♎39'15	
conjunction	-8746 Dec 20 j 02:41	27°♎33'54	-0°16'24
minimum elong	-8746 Dec 20 j 02:41	27°♎33'53	0°16'36
max. Earth dist.	-8746 Dec 21 j 03:04	27°♎37'21	21.09669 AU
morning rise	-8745 Jan 05 j 11:59	28°♎29'09	
	-8745 Feb 04 j 04:44	0°♏	
retrograde	-8745 Apr 10 j 11:29	1°♏35'58	
	-8745 Jun 17 j 07:23	30°℞♎	
min. Earth dist.	-8745 Jun 26 j 06:23	29°♎38'19	19.08907 AU
opposition	-8745 Jun 27 j 04:05	29°♎36'07	-0°20'27
direct	-8745 Sep 09 j 20:27	27°♎39'48	
	-8745 Nov 26 j 20:03	0°♏	
evening set	-8745 Dec 08 j 03:59	0°♏36'38	
conjunction	-8745 Dec 24 j 09:58	1°♏31'24	-0°20'30
minimum elong	-8745 Dec 24 j 09:58	1°♏31'24	0°20'45
max. Earth dist.	-8745 Dec 25 j 09:32	1°♏34'44	21.07980 AU
morning rise	-8744 Jan 09 j 20:09	2°♏26'47	
retrograde	-8744 Apr 13 j 18:02	5°♏33'38	
opposition	-8744 Jun 30 j 09:09	3°♏33'41	-0°24'57
min. Earth dist.	-8744 Jun 29 j 13:15	3°♏35'42	19.07013 AU
direct	-8744 Sep 13 j 00:23	1°♏37'11	
evening set	-8744 Dec 11 j 10:29	4°♏34'16	
conjunction	-8744 Dec 27 j 17:29	5°♏29'11	-0°24'32
minimum elong	-8744 Dec 27 j 17:29	5°♏29'11	0°24'48
max. Earth dist.	-8744 Dec 28 j 14:50	5°♏32'13	21.05905 AU
morning rise	-8743 Jan 13 j 04:45	6°♏24'42	
retrograde	-8743 Apr 18 j 03:12	9°♏31'39	
opposition	-8743 Jul 04 j 14:08	7°♏31'36	-0°29'20
min. Earth dist.	-8743 Jul 03 j 19:23	7°♏33'31	19.04750 AU
direct	-8743 Sep 17 j 05:17	5°♏34'54	
evening set	-8743 Dec 15 j 17:35	8°♏32'21	
conjunction	-8742 Jan 01 j 01:41	9°♏27'27	-0°28'26
minimum elong	-8742 Jan 01 j 01:41	9°♏27'27	0°28'43
max. Earth dist.	-8742 Jan 01 j 22:07	9°♏30'20	21.03452 AU
morning rise	-8742 Jan 17 j 13:46	10°♏23'07	
retrograde	-8742 Apr 22 j 10:05	13°♏30'11	
opposition	-8742 Jul 08 j 19:02	11°♏30'04	-0°33'36
min. Earth dist.	-8742 Jul 08 j 02:12	11°♏31'48	19.02119 AU
direct	-8742 Sep 21 j 08:49	9°♏33'11	
evening set	-8742 Dec 20 j 01:14	12°♏31'05	
conjunction	-8741 Jan 05 j 10:18	13°♏26'21	-0°32'13
minimum elong	-8741 Jan 05 j 10:17	13°♏26'21	0°32'33
max. Earth dist.	-8741 Jan 06 j 04:12	13°♏28'53	21.00660 AU
morning rise	-8741 Jan 21 j 23:22	14°♏22'11	
	-8741 Feb 02 j 15:38	15°♏	
retrograde	-8741 Apr 26 j 19:48	17°♏29'27	
min. Earth dist.	-8741 Jul 12 j 08:37	15°♏30'53	18.99153 AU
opposition	-8741 Jul 13 j 00:06	15°♏29'17	-0°37'43
	-8741 Jul 25 j 00:22	15°℞♏	
direct	-8741 Sep 25 j 13:59	13°♏32'12	
	-8741 Nov 24 j 16:55	15°♏	
evening set	-8741 Dec 24 j 09:15	16°♏30'39	
conjunction	-8740 Jan 09 j 19:22	17°♏26'07	-0°35'52
minimum elong	-8740 Jan 09 j 19:21	17°♏26'07	0°36'13
max. Earth dist.	-8740 Jan 10 j 12:14	17°♏28'30	20.97514 AU
morning rise	-8740 Jan 26 j 09:09	18°♏22'07	
retrograde	-8740 Apr 30 j 03:46	21°♏29'38	
opposition	-8740 Jul 16 j 05:20	19°♏29'27	-0°41'40
min. Earth dist.	-8740 Jul 15 j 15:51	19°♏30'50	18.95830 AU
direct	-8740 Sep 28 j 18:11	17°♏32'10	
evening set	-8740 Dec 27 j 18:07	20°♏31'15	
conjunction	-8739 Jan 13 j 05:09	21°♏26'55	-0°39'21
minimum elong	-8739 Jan 13 j 05:08	21°♏26'55	0°39'45
max. Earth dist.	-8739 Jan 13 j 19:10	21°♏28'54	20.94027 AU
morning rise	-8739 Jan 29 j 19:52	22°♏23'07	
retrograde	-8739 May 04 j 13:52	25°♏30'55	
opposition	-8739 Jul 20 j 10:40	23°♏30'43	-0°45'26
min. Earth dist.	-8739 Jul 19 j 22:55	23°♏31'55	18.92158 AU

Attention, astronomical year style is used: The year -8739 in astronomical counting style is the year 8740 BCE in historical counting style.

direct	-8739 Oct 02 j 23:31	21°♏33'13	
evening set	-8738 Jan 01 j 03:45	24°♏33'02	
conjunction	-8738 Jan 17 j 15:48	25°♏28'55	-0°42'40
minimum elong	-8738 Jan 17 j 15:48	25°♏28'55	0°43'06
max. Earth dist.	-8738 Jan 18 j 04:24	25°♏30'43	20.90156 AU
morning rise	-8738 Feb 03 j 07:10	26°♏25'19	
retrograde	-8738 May 08 j 23:24	29°♏33'27	
opposition	-8738 Jul 24 j 16:21	27°♏33'13	-0°49'00
min. Earth dist.	-8738 Jul 24 j 06:55	27°♏34'12	18.88083 AU
direct	-8738 Oct 07 j 05:00	25°♏35'31	
evening set	-8737 Jan 05 j 14:12	28°♏36'07	
conjunction	-8737 Jan 22 j 03:02	29°♏32'14	-0°45'47
minimum elong	-8737 Jan 22 j 03:02	29°♏32'14	0°46'14
max. Earth dist.	-8737 Jan 22 j 12:14	29°♏33'33	20.85881 AU
	-8737 Jan 30 j 06:03	0°♐	
morning rise	-8737 Feb 07 j 19:11	0°♐28'50	
retrograde	-8737 May 13 j 09:36	3°♐37'20	
opposition	-8737 Jul 28 j 22:18	1°♐37'05	-0°52'21
min. Earth dist.	-8737 Jul 28 j 14:57	1°♐37'51	18.83596 AU
	-8737 Sep 12 j 18:10	30°℞♏	
direct	-8737 Oct 11 j 11:01	29°♏39'06	
	-8737 Nov 08 j 21:16	0°♐	
evening set	-8736 Jan 10 j 01:21	2°♐40'34	
conjunction	-8736 Jan 26 j 15:10	3°♐36'56	-0°48'41
minimum elong	-8736 Jan 26 j 15:10	3°♐36'56	0°49'10
max. Earth dist.	-8736 Jan 26 j 22:37	3°♐38'00	20.81166 AU
morning rise	-8736 Feb 12 j 07:48	4°♐33'44	
retrograde	-8736 May 16 j 20:15	7°♐42'37	
opposition	-8736 Aug 01 j 04:40	5°♐42'19	-0°55'26
min. Earth dist.	-8736 Jul 31 j 23:42	5°♐42'50	18.78658 AU
direct	-8736 Oct 14 j 17:56	3°♐44'03	
evening set	-8735 Jan 13 j 13:19	6°♐46'24	
conjunction	-8735 Jan 30 j 03:54	7°♐43'01	-0°51'21
minimum elong	-8735 Jan 30 j 03:53	7°♐43'01	0°51'50
max. Earth dist.	-8735 Jan 30 j 07:35	7°♐43'33	20.76015 AU
morning rise	-8735 Feb 15 j 21:18	8°♐40'03	
retrograde	-8735 May 21 j 07:04	11°♐49'19	
opposition	-8735 Aug 05 j 11:27	9°♐48'56	-0°58'16
min. Earth dist.	-8735 Aug 05 j 08:48	9°♐49'13	18.73286 AU
direct	-8735 Oct 19 j 01:18	7°♐50'18	
evening set	-8734 Jan 18 j 02:07	10°♐53'38	
conjunction	-8734 Feb 03 j 17:37	11°♐50'30	-0°53'45
minimum elong	-8734 Feb 03 j 17:37	11°♐50'30	0°54'16
max. Earth dist.	-8734 Feb 03 j 19:27	11°♐50'46	20.70424 AU
morning rise	-8734 Feb 20 j 11:23	12°♐47'45	
retrograde	-8734 May 25 j 18:14	15°♐57'24	
opposition	-8734 Aug 09 j 18:30	13°♐56'56	-1°00'48
min. Earth dist.	-8734 Aug 09 j 18:13	13°♐56'57	18.67492 AU
direct	-8734 Oct 23 j 09:29	11°♐57'54	
evening set	-8733 Jan 22 j 15:45	15°♐02'14	
conjunction	-8733 Feb 08 j 07:51	15°♐59'22	-0°55'54
minimum elong	-8733 Feb 08 j 07:51	15°♐59'22	0°56'25
max. Earth dist.	-8733 Feb 08 j 05:53	15°♐59'06	20.64459 AU
morning rise	-8733 Feb 25 j 02:14	16°♐56'50	
retrograde	-8733 May 30 j 06:01	20°♐06'56	
opposition	-8733 Aug 14 j 02:05	18°♐06'18	-1°03'02
min. Earth dist.	-8733 Aug 14 j 04:05	18°♐06'05	18.61367 AU
direct	-8733 Oct 27 j 18:03	16°♐06'51	
evening set	-8732 Jan 27 j 05:48	19°♐12'14	
conjunction	-8732 Feb 12 j 22:45	20°♐09'39	-0°57'45
minimum elong	-8732 Feb 12 j 22:45	20°♐09'39	0°58'18
max. Earth dist.	-8732 Feb 12 j 19:20	20°♐09'09	20.58182 AU
morning rise	-8732 Feb 29 j 17:23	21°♐07'20	
retrograde	-8732 Jun 02 j 18:06	24°♐17'51	
opposition	-8732 Aug 17 j 10:03	22°♐17'06	-1°04'57
min. Earth dist.	-8732 Aug 17 j 14:05	22°♐16'40	18.54961 AU
direct	-8732 Oct 31 j 03:17	20°♐17'12	
evening set	-8731 Jan 30 j 20:59	23°♐23'42	
conjunction	-8731 Feb 16 j 14:25	24°♐21'22	-0°59'19
minimum elong	-8731 Feb 16 j 14:25	24°♐21'22	0°59'52
max. Earth dist.	-8731 Feb 16 j 07:22	24°♐20'21	20.51675 AU
morning rise	-8731 Mar 05 j 09:33	25°♐19'18	
retrograde	-8731 Jun 07 j 06:52	28°♐30'17	
opposition	-8731 Aug 21 j 18:27	26°♐29'22	-1°06'32
min. Earth dist.	-8731 Aug 22 j 00:47	26°♐28'42	18.48371 AU
direct	-8731 Nov 04 j 12:52	24°♐29'01	
evening set	-8730 Feb 04 j 12:52	27°♐36'40	
conjunction	-8730 Feb 21 j 07:03	28°♐34'38	-1°00'34
minimum elong	-8730 Feb 21 j 07:02	28°♐34'38	1°01'07
max. Earth dist.	-8730 Feb 20 j 22:41	28°♐33'26	20.45003 AU
morning rise	-8730 Mar 10 j 02:14	29°♐32'48	
	-8730 Mar 18 j 05:03	0°♑	
retrograde	-8730 Jun 11 j 20:35	2°♑44'15	
opposition	-8730 Aug 26 j 03:28	0°♑43'13	-1°07'46
min. Earth dist.	-8730 Aug 26 j 11:32	0°♑42'22	18.41642 AU
	-8730 Sep 12 j 12:03	30°℞♐	
direct	-8730 Nov 08 j 23:23	28°♐42'26	
	-8729 Jan 03 j 22:39	0°♑	
evening set	-8729 Feb 09 j 05:37	1°♑51'17	
conjunction	-8729 Feb 26 j 00:05	2°♑49'32	-1°01'30
minimum elong	-8729 Feb 26 j 00:05	2°♑49'32	1°02'04
max. Earth dist.	-8729 Feb 25 j 12:16	2°♑47'48	20.38235 AU
morning rise	-8729 Mar 14 j 19:35	3°♑47'56	
retrograde	-8729 Jun 16 j 10:23	6°♑59'54	
opposition	-8729 Aug 30 j 13:09	4°♑58'45	-1°08'38
min. Earth dist.	-8729 Aug 30 j 23:24	4°♑57'40	18.34859 AU
direct	-8729 Nov 13 j 09:51	2°♑57'31	
evening set	-8728 Feb 13 j 23:08	6°♑07'39	
conjunction	-8728 Mar 01 j 18:12	7°♑06'10	-1°02'06
minimum elong	-8728 Mar 01 j 18:12	7°♑06'10	1°02'39
max. Earth dist.	-8728 Mar 01 j 05:19	7°♑04'17	20.31431 AU
morning rise	-8728 Mar 18 j 13:38	8°♑04'49	
retrograde	-8728 Jun 20 j 02:03	11°♑17'19	
opposition	-8728 Sep 02 j 23:23	9°♑16'05	-1°09'09
min. Earth dist.	-8728 Sep 03 j 11:05	9°♑14'50	18.28052 AU
direct	-8728 Nov 16 j 21:56	7°♑14'27	
evening set	-8727 Feb 17 j 17:43	10°♑25'52	
conjunction	-8727 Mar 06 j 13:01	11°♑24'41	-1°02'22
minimum elong	-8727 Mar 06 j 13:01	11°♑24'41	1°02'56
max. Earth dist.	-8727 Mar 05 j 20:42	11°♑22'17	20.24633 AU
morning rise	-8727 Mar 23 j 08:38	12°♑23'34	
retrograde	-8727 Jun 24 j 17:00	15°♑36'38	
opposition	-8727 Sep 07 j 10:30	13°♑35'20	-1°09'16
min. Earth dist.	-8727 Sep 08 j 00:30	13°♑33'50	18.21271 AU
direct	-8727 Nov 21 j 09:43	11°♑33'18	
evening set	-8726 Feb 22 j 13:10	14°♑46'05	
conjunction	-8726 Mar 11 j 08:54	15°♑45'11	-1°02'17
minimum elong	-8726 Mar 11 j 08:54	15°♑45'11	1°02'50
max. Earth dist.	-8726 Mar 10 j 15:32	15°♑42'37	20.17859 AU
morning rise	-8726 Mar 28 j 04:17	16°♑44'18	
retrograde	-8726 Jun 29 j 10:25	19°♑57'56	

Attention, astronomical year style is used: The year -8726 in astronomical counting style is the year 8727 BCE in historical counting style.

opposition	-8726 Sep 11 j 22:16	17°♉56'37	-1°09'00
min. Earth dist.	-8726 Sep 12 j 13:35	17°♉54'58	18.14508 AU
direct	-8726 Nov 25 j 23:35	15°♉54'14	
evening set	-8725 Feb 27 j 09:42	19°♉08'23	
max. Earth dist.	-8725 Mar 15 j 08:47	20°♉04'42	20.11115 AU
conjunction	-8725 Mar 16 j 05:27	20°♉07'46	-1°01'50
minimum elong	-8725 Mar 16 j 05:27	20°♉07'46	1°02'23
morning rise	-8725 Apr 02 j 00:48	21°♉07'07	
retrograde	-8725 Jul 04 j 02:38	24°♉21'22	
opposition	-8725 Sep 16 j 11:00	22°♉20'01	-1°08'19
min. Earth dist.	-8725 Sep 17 j 04:49	22°♉18'06	18.07790 AU
direct	-8725 Nov 30 j 13:17	20°♉17'16	
evening set	-8724 Mar 03 j 06:53	23°♉32'49	
max. Earth dist.	-8724 Mar 19 j 05:06	24°♉29'14	20.04402 AU
conjunction	-8724 Mar 20 j 02:55	24°♉32'29	-1°01'00
minimum elong	-8724 Mar 20 j 02:55	24°♉32'29	1°01'33
morning rise	-8724 Apr 05 j 21:56	25°♉32'04	
retrograde	-8724 Jul 07 j 21:20	28°♉46'54	
opposition	-8724 Sep 20 j 00:31	26°♉45'33	-1°07'13
min. Earth dist.	-8724 Sep 20 j 19:32	26°♉43'29	18.01078 AU
direct	-8724 Dec 04 j 04:59	24°♉42'27	
evening set	-8723 Mar 08 j 05:21	27°♉59'24	
max. Earth dist.	-8723 Mar 24 j 00:11	28°♉55'35	19.97688 AU
conjunction	-8723 Mar 25 j 01:16	28°♉59'20	-0°59'49
minimum elong	-8723 Mar 25 j 01:17	28°♉59'20	1°00'19
morning rise	-8723 Apr 10 j 20:02	29°♉59'07	
	-8723 Apr 11 j 02:02	0°♒	
retrograde	-8723 Jul 12 j 14:53	3°♒14'34	
opposition	-8723 Sep 24 j 14:58	1°♒13'10	-1°05'42
min. Earth dist.	-8723 Sep 25 j 12:40	1°♒10'49	17.94378 AU
	-8723 Oct 24 j 20:57	30°℞♉	
direct	-8723 Dec 08 j 20:58	29°♉09'41	
	-8722 Jan 22 j 07:04	0°♒	
evening set	-8722 Mar 13 j 04:34	2°♒28'03	
max. Earth dist.	-8722 Mar 28 j 22:02	3°♒24'15	19.90990 AU
conjunction	-8722 Mar 30 j 00:31	3°♒28'14	-0°58'14
minimum elong	-8722 Mar 30 j 00:31	3°♒28'14	0°58'45
morning rise	-8722 Apr 15 j 18:48	4°♒28'14	
retrograde	-8722 Jul 17 j 10:40	7°♒44'15	
opposition	-8722 Sep 29 j 06:19	5°♒42'48	-1°03'47
min. Earth dist.	-8722 Sep 30 j 04:57	5°♒40'21	17.87687 AU
direct	-8722 Dec 13 j 14:57	3°♒38'58	
evening set	-8721 Mar 18 j 04:29	6°♒58'39	
max. Earth dist.	-8721 Apr 02 j 18:59	7°♒54'41	19.84314 AU
conjunction	-8721 Apr 04 j 00:11	7°♒59'05	-0°56'18
minimum elong	-8721 Apr 04 j 00:11	7°♒59'05	0°56'46
morning rise	-8721 Apr 20 j 17:58	8°♒59'17	
retrograde	-8721 Jul 22 j 05:08	12°♒15'53	
opposition	-8721 Oct 03 j 22:37	10°♒14'21	-1°01'26
min. Earth dist.	-8721 Oct 04 j 23:46	10°♒11'37	17.81055 AU
direct	-8721 Dec 18 j 08:57	8°♒10'07	
evening set	-8720 Mar 22 j 05:08	11°♒31'08	
max. Earth dist.	-8720 Apr 06 j 18:08	12°♒27'10	19.77731 AU
conjunction	-8720 Apr 08 j 00:39	12°♒31'48	-0°53'59
minimum elong	-8720 Apr 08 j 00:39	12°♒31'48	0°54'27
morning rise	-8720 Apr 24 j 17:53	13°♒32'10	
	-8720 May 21 j 04:18	15°♒	
retrograde	-8720 Jul 26 j 01:42	16°♒49'19	
	-8720 Oct 02 j 22:01	15°℞♒	
opposition	-8720 Oct 07 j 15:28	14°♒47'41	-0°58'42
min. Earth dist.	-8720 Oct 08 j 17:11	14°♒44'54	17.74533 AU
direct	-8720 Dec 22 j 05:16	12°♒43'04	
	-8719 Mar 08 j 02:18	15°♒	
evening set	-8719 Mar 27 j 06:32	16°♒05'23	
max. Earth dist.	-8719 Apr 11 j 17:16	17°♒01'19	19.71286 AU
conjunction	-8719 Apr 13 j 01:42	17°♒06'16	-0°51'19
minimum elong	-8719 Apr 13 j 01:42	17°♒06'16	0°51'46
morning rise	-8719 Apr 29 j 18:14	18°♒06'48	
retrograde	-8719 Jul 30 j 21:00	21°♒24'28	
opposition	-8719 Oct 12 j 09:26	19°♒22'45	-0°55'34
min. Earth dist.	-8719 Oct 13 j 13:25	19°♒19'42	17.68197 AU
direct	-8719 Dec 27 j 01:25	17°♒17'44	
evening set	-8718 Apr 01 j 08:25	20°♒41'17	
max. Earth dist.	-8718 Apr 16 j 17:33	21°♒37'14	19.65075 AU
conjunction	-8718 Apr 18 j 03:06	21°♒42'22	-0°48'19
minimum elong	-8718 Apr 18 j 03:07	21°♒42'22	0°48'43
morning rise	-8718 May 04 j 18:57	22°♒43'03	
retrograde	-8718 Aug 04 j 18:18	26°♒01'14	
opposition	-8718 Oct 17 j 04:03	23°♒59'25	-0°52'04
min. Earth dist.	-8718 Oct 18 j 08:02	23°♒56'22	17.62125 AU
direct	-8718 Dec 31 j 23:58	21°♒54'02	
evening set	-8717 Apr 06 j 10:47	25°♒18'47	
max. Earth dist.	-8717 Apr 21 j 18:40	26°♒14'46	19.59161 AU
conjunction	-8717 Apr 23 j 04:58	26°♒20'02	-0°45'00
minimum elong	-8717 Apr 23 j 04:59	26°♒20'02	0°45'22
morning rise	-8717 May 09 j 19:54	27°♒20'52	
	-8717 Jul 02 j 13:44	0°♓	
retrograde	-8717 Aug 09 j 14:33	0°♓39'32	
	-8717 Sep 17 j 09:21	30°℞♒	
opposition	-8717 Oct 21 j 23:37	28°♒37'37	-0°48'12
min. Earth dist.	-8717 Oct 23 j 05:21	28°♒34'23	17.56406 AU
direct	-8716 Jan 05 j 21:40	26°♒31'54	
evening set	-8716 Apr 10 j 13:34	29°♒57'47	
	-8716 Apr 11 j 04:22	0°♓	
max. Earth dist.	-8716 Apr 25 j 19:48	0°♓53'45	19.53648 AU
conjunction	-8716 Apr 27 j 07:04	0°♓59'11	-0°41'22
minimum elong	-8716 Apr 27 j 07:04	0°♓59'11	0°41'41
morning rise	-8716 May 13 j 21:15	2°♓00'08	
retrograde	-8716 Aug 13 j 13:15	5°♓19'17	
opposition	-8716 Oct 25 j 19:54	3°♓17'17	-0°44'00
min. Earth dist.	-8716 Oct 27 j 01:09	3°♓14'06	17.51110 AU
direct	-8715 Jan 09 j 22:00	1°♓11'17	
evening set	-8715 Apr 15 j 16:48	4°♓38'13	
max. Earth dist.	-8715 Apr 30 j 22:39	5°♓34'20	19.48578 AU
conjunction	-8715 May 02 j 09:40	5°♓39'45	-0°37'27
minimum elong	-8715 May 02 j 09:40	5°♓39'46	0°37'44
morning rise	-8715 May 18 j 22:43	6°♓40'48	
retrograde	-8715 Aug 18 j 10:37	10°♓00'24	
opposition	-8715 Oct 30 j 17:08	7°♓58'23	-0°39'30
min. Earth dist.	-8715 Oct 31 j 23:34	7°♓55'03	17.46296 AU
direct	-8714 Jan 14 j 20:45	5°♓52'08	
evening set	-8714 Apr 20 j 20:30	9°♓20'04	
max. Earth dist.	-8714 May 06 j 00:36	10°♓16'09	19.44038 AU
conjunction	-8714 May 07 j 12:24	10°♓21'43	-0°33'15
minimum elong	-8714 May 07 j 12:24	10°♓21'43	0°33'31
morning rise	-8714 May 24 j 00:34	11°♓22'50	
retrograde	-8714 Aug 23 j 10:54	14°♓42'53	
opposition	-8714 Nov 04 j 15:09	12°♓40'50	-0°34'42
min. Earth dist.	-8714 Nov 05 j 20:45	12°♓37'36	17.42029 AU
direct	-8713 Jan 19 j 21:57	10°♓34'24	
evening set	-8713 Apr 26 j 00:13	14°♓03'15	
max. Earth dist.	-8713 May 11 j 04:47	14°♓59'36	19.40046 AU

Attention, astronomical year style is used: The year -8713 in astronomical counting style is the year 8714 BCE in historical counting style.

conjunction	-8713 May 12 j 15:22	15°♓05'00	-0°28'50
minimum elong	-8713 May 12 j 15:22	15°♓05'00	0°29'02
morning rise	-8713 May 29 j 02:17	16°♓06'10	
retrograde	-8713 Aug 28 j 09:52	19°♓26'37	
opposition	-8713 Nov 09 j 14:03	17°♓24'37	-0°29'38
min. Earth dist.	-8713 Nov 10 j 20:18	17°♓21'19	17.38316 AU
direct	-8712 Jan 24 j 21:51	15°♓18'04	
evening set	-8712 Apr 30 j 04:31	18°♓47'45	
max. Earth dist.	-8712 May 15 j 07:13	19°♓44'01	19.36622 AU
conjunction	-8712 May 16 j 18:31	19°♓49'33	-0°24'11
minimum elong	-8712 May 16 j 18:31	19°♓49'33	0°24'21
morning rise	-8712 Jun 02 j 04:29	20°♓50'46	
retrograde	-8712 Sep 01 j 10:49	24°♓11'36	
opposition	-8712 Nov 13 j 13:29	22°♓09'38	-0°24'21
min. Earth dist.	-8712 Nov 14 j 19:01	22°♓06'24	17.35166 AU
direct	-8711 Jan 28 j 23:47	20°♓03'00	
evening set	-8711 May 05 j 08:56	23°♓33'26	
conjunction	-8711 May 21 j 22:01	24°♓35'16	-0°19'21
minimum elong	-8711 May 21 j 22:02	24°♓35'16	0°19'28
max. Earth dist.	-8711 May 20 j 12:22	24°♓29'59	19.33739 AU
morning rise	-8711 Jun 07 j 06:37	25°♓36'29	
retrograde	-8711 Sep 06 j 10:48	28°♓57'40	
opposition	-8711 Nov 18 j 14:01	26°♓55'45	-0°18'52
min. Earth dist.	-8711 Nov 19 j 19:42	26°♓52'31	17.32541 AU
direct	-8710 Feb 03 j 01:41	24°♓49'07	
evening set	-8710 May 10 j 13:31	28°♓20'08	
max. Earth dist.	-8710 May 25 j 15:09	29°♓16'35	19.31376 AU
conjunction	-8710 May 27 j 01:16	29°♓21'58	-0°14'22
minimum elong	-8710 May 27 j 01:16	29°♓21'58	0°14'26
behind sun begin	-8710 May 26 j 22:20	29°♓21'30	
behind sun end	-8710 May 27 j 04:13	29°♓22'25	
	-8710 Jun 06 j 03:26	0°♈	
morning rise	-8710 Jun 12 j 08:46	0°♈23'10	
retrograde	-8710 Sep 11 j 11:35	3°♈44'40	
opposition	-8710 Nov 23 j 15:10	1°♈42'47	-0°13'13
min. Earth dist.	-8710 Nov 24 j 20:08	1°♈39'38	17.30436 AU
	-8709 Jan 08 j 16:29	30°♓℞	
direct	-8709 Feb 08 j 04:58	29°♓36'08	
	-8709 Mar 10 j 10:03	0°♈	
evening set	-8709 May 15 j 18:01	3°♈07'38	
max. Earth dist.	-8709 May 30 j 20:30	4°♈04'21	19.29515 AU
conjunction	-8709 Jun 01 j 04:44	4°♈09'26	-0°09'16
minimum elong	-8709 Jun 01 j 04:44	4°♈09'26	0°09'18
behind sun begin	-8709 May 31 j 23:06	4°♈08'34	
behind sun end	-8709 Jun 01 j 10:21	4°♈10'18	
morning rise	-8709 Jun 17 j 10:50	5°♈10'35	
retrograde	-8709 Sep 16 j 12:01	8°♈32'19	
opposition	-8709 Nov 28 j 16:55	6°♈30'29	-0°07'29
min. Earth dist.	-8709 Nov 29 j 21:23	6°♈27'24	17.28810 AU
direct	-8708 Feb 13 j 09:20	4°♈23'50	
evening set	-8708 May 19 j 22:36	7°♈55'42	
max. Earth dist.	-8708 Jun 03 j 23:34	8°♈52'19	19.28134 AU
conjunction	-8708 Jun 05 j 07:56	8°♈57'26	-0°04'07
minimum elong	-8708 Jun 05 j 07:56	8°♈57'25	0°04'05
behind sun begin	-8708 Jun 05 j 01:20	8°♈56'24	
behind sun end	-8708 Jun 05 j 14:32	8°♈58'27	
morning rise	-8708 Jun 21 j 12:52	9°♈58'31	
retrograde	-8708 Sep 20 j 12:03	13°♈20'26	
opposition	-8708 Dec 02 j 19:15	11°♈18'37	-0°01'40
min. Earth dist.	-8708 Dec 03 j 23:07	11°♈15'36	17.27674 AU
direct	-8707 Feb 17 j 13:46	9°♈11'59	
asc. node	-8707 Mar 16 j 23:48	9°♈31'41	
evening set	-8707 May 25 j 02:50	12°♈44'03	
max. Earth dist.	-8707 Jun 09 j 04:39	13°♈40'53	19.27238 AU
conjunction	-8707 Jun 10 j 10:58	13°♈45'41	0°01'13
minimum elong	-8707 Jun 10 j 10:57	13°♈45'41	0°01'17
behind sun begin	-8707 Jun 10 j 04:17	13°♈44'39	
behind sun end	-8707 Jun 10 j 17:38	13°♈46'43	
morning rise	-8707 Jun 26 j 14:30	14°♈46'40	
retrograde	-8707 Sep 25 j 12:54	18°♈08'43	
opposition	-8707 Dec 07 j 22:05	16°♈06'55	0°04'09
min. Earth dist.	-8707 Dec 09 j 00:37	16°♈04'03	17.27011 AU
direct	-8706 Feb 22 j 19:52	14°♈00'19	
evening set	-8706 May 30 j 06:51	17°♈32'27	
max. Earth dist.	-8706 Jun 14 j 07:59	18°♈29'16	19.26834 AU
conjunction	-8706 Jun 15 j 13:35	18°♈33'58	0°06'26
minimum elong	-8706 Jun 15 j 13:34	18°♈33'58	0°06'33
behind sun begin	-8706 Jun 15 j 07:19	18°♈33'00	
behind sun end	-8706 Jun 15 j 19:50	18°♈34'56	
morning rise	-8706 Jul 01 j 15:53	19°♈34'51	
retrograde	-8706 Sep 30 j 12:34	22°♈56'58	
opposition	-8706 Dec 13 j 01:17	20°♈55'09	0°09'56
min. Earth dist.	-8706 Dec 14 j 03:07	20°♈52'22	17.26875 AU
direct	-8705 Feb 28 j 00:24	18°♈48'36	
evening set	-8705 Jun 04 j 10:11	22°♈20'39	
conjunction	-8705 Jun 20 j 15:39	23°♈22'01	0°11'34
minimum elong	-8705 Jun 20 j 15:39	23°♈22'01	0°11'43
behind sun begin	-8705 Jun 20 j 10:56	23°♈21'17	
behind sun end	-8705 Jun 20 j 20:21	23°♈22'45	
max. Earth dist.	-8705 Jun 19 j 12:15	23°♈17'40	19.26968 AU
morning rise	-8705 Jul 06 j 16:42	24°♈22'46	
retrograde	-8705 Oct 05 j 13:39	27°♈44'53	
opposition	-8705 Dec 18 j 04:38	25°♈43'04	0°15'39
min. Earth dist.	-8705 Dec 19 j 04:20	25°♈40'31	17.27265 AU
direct	-8704 Mar 04 j 06:54	23°♈36'35	
evening set	-8704 Jun 08 j 13:11	27°♈08'26	
conjunction	-8704 Jun 24 j 17:16	28°♈09'38	0°16'36
minimum elong	-8704 Jun 24 j 17:15	28°♈09'38	0°16'48
max. Earth dist.	-8704 Jun 23 j 15:30	28°♈05'33	19.27642 AU
morning rise	-8704 Jul 10 j 17:01	29°♈10'13	
	-8704 Jul 24 j 11:13	0°♉	
retrograde	-8704 Oct 09 j 12:48	2°♉32'18	
opposition	-8704 Dec 22 j 08:12	0°♉30'28	0°21'14
min. Earth dist.	-8704 Dec 23 j 07:02	0°♉28'01	17.28233 AU
	-8703 Jan 03 j 06:01	30°℞♈	
direct	-8703 Mar 09 j 11:06	28°♈24'05	
	-8703 May 10 j 09:31	0°♉	
evening set	-8703 Jun 13 j 15:32	1°♉55'36	
conjunction	-8703 Jun 29 j 18:14	2°♉56'37	0°21'32
minimum elong	-8703 Jun 29 j 18:13	2°♉56'37	0°21'47
max. Earth dist.	-8703 Jun 28 j 18:43	2°♉52'53	19.28916 AU
morning rise	-8703 Jul 15 j 16:49	3°♉57'02	
retrograde	-8703 Oct 14 j 13:52	7°♉19'00	
opposition	-8703 Dec 27 j 11:54	5°♉17'10	0°26'39
min. Earth dist.	-8703 Dec 28 j 07:45	5°♉15'03	17.29804 AU
direct	-8702 Mar 14 j 17:02	3°♉10'56	
evening set	-8702 Jun 18 j 17:02	6°♉42'00	
conjunction	-8702 Jul 04 j 18:26	7°♉42'48	0°26'18
minimum elong	-8702 Jul 04 j 18:26	7°♉42'48	0°26'34
max. Earth dist.	-8702 Jul 03 j 21:40	7°♉39'30	19.30801 AU
morning rise	-8702 Jul 20 j 15:45	8°♉43'01	
retrograde	-8702 Oct 19 j 13:02	12°♉04'52	
opposition	-8701 Jan 01 j 15:45	10°♉03'04	0°31'52

Attention, astronomical year style is used: The year -8701 in astronomical counting style is the year 8702 BCE in historical counting style.

min. Earth dist.	-8701 Jan 02 j 10:20	10°♉01'05	17.32016 AU
direct	-8701 Mar 19 j 20:38	7°♉57'02	
evening set	-8701 Jun 23 j 18:01	11°♉27'33	
conjunction	-8701 Jul 09 j 18:01	12°♉28'06	0°30'52
minimum elong	-8701 Jul 09 j 18:00	12°♉28'06	0°31'11
max. Earth dist.	-8701 Jul 08 j 23:24	12°♉25'09	19.33341 AU
morning rise	-8701 Jul 25 j 14:18	13°♉28'07	
	-8701 Aug 21 j 01:00	15°♉	
retrograde	-8701 Oct 24 j 13:41	16°♉49'47	
	-8700 Jan 02 j 03:01	15°℞♉	
opposition	-8700 Jan 06 j 19:11	14°♉48'03	0°36'51
min. Earth dist.	-8700 Jan 07 j 10:21	14°♉46'26	17.34869 AU
direct	-8700 Mar 24 j 01:20	12°♉42'16	
	-8700 Jun 07 j 09:08	15°♉	
evening set	-8700 Jun 27 j 18:11	16°♉12'09	
conjunction	-8700 Jul 13 j 17:01	17°♉12'28	0°35'13
minimum elong	-8700 Jul 13 j 17:00	17°♉12'28	0°35'35
max. Earth dist.	-8700 Jul 13 j 01:43	17°♉10'02	19.36510 AU
morning rise	-8700 Jul 29 j 12:04	18°♉12'15	
retrograde	-8700 Oct 28 j 12:41	21°♉33'43	
opposition	-8699 Jan 10 j 22:52	19°♉32'05	0°41'34
min. Earth dist.	-8699 Jan 11 j 12:34	19°♉30'37	17.38345 AU
direct	-8699 Mar 29 j 04:26	17°♉26'38	
evening set	-8699 Jul 02 j 17:37	20°♉55'45	
conjunction	-8699 Jul 18 j 15:04	21°♉55'48	0°39'19
minimum elong	-8699 Jul 18 j 15:03	21°♉55'48	0°39'42
max. Earth dist.	-8699 Jul 18 j 01:44	21°♉53'42	19.40294 AU
morning rise	-8699 Aug 03 j 09:15	22°♉55'22	
retrograde	-8699 Nov 02 j 12:55	26°♉16'36	
opposition	-8698 Jan 16 j 02:18	24°♉15'05	0°46'00
min. Earth dist.	-8698 Jan 16 j 12:25	24°♉14'01	17.42406 AU
direct	-8698 Apr 03 j 08:24	22°♉10'00	
evening set	-8698 Jul 07 j 16:11	25°♉38'18	
conjunction	-8698 Jul 23 j 12:35	26°♉38'05	0°43'08
minimum elong	-8698 Jul 23 j 12:35	26°♉38'05	0°43'35
max. Earth dist.	-8698 Jul 23 j 02:58	26°♉36'33	19.44620 AU
morning rise	-8698 Aug 08 j 05:41	27°♉37'24	
	-8698 Sep 22 j 00:09	0°♊	
retrograde	-8698 Nov 07 j 11:11	0°♊58'21	
	-8698 Dec 26 j 02:23	30°℞♉	
opposition	-8697 Jan 21 j 05:34	28°♉56'59	0°50'06
min. Earth dist.	-8697 Jan 21 j 14:06	28°♉56'04	17.46981 AU
direct	-8697 Apr 08 j 11:44	26°♉52'18	
	-8697 Jul 07 j 05:13	0°♊	
evening set	-8697 Jul 12 j 14:03	0°♊19'40	
conjunction	-8697 Jul 28 j 09:11	1°♊19'09	0°46'40
minimum elong	-8697 Jul 28 j 09:10	1°♊19'09	0°47'07
max. Earth dist.	-8697 Jul 28 j 01:11	1°♊17'53	19.49431 AU
morning rise	-8697 Aug 13 j 01:35	2°♊18'14	
retrograde	-8697 Nov 12 j 09:59	5°♊38'53	
opposition	-8696 Jan 26 j 08:28	3°♊37'38	0°53'50
min. Earth dist.	-8696 Jan 26 j 13:43	3°♊37'04	17.52000 AU
direct	-8696 Apr 12 j 15:00	1°♊33'22	
evening set	-8696 Jul 16 j 11:00	4°♊59'43	
conjunction	-8696 Aug 01 j 05:12	5°♊58'55	0°49'52
minimum elong	-8696 Aug 01 j 05:12	5°♊58'55	0°50'21
max. Earth dist.	-8696 Aug 01 j 00:53	5°♊58'14	19.54633 AU
morning rise	-8696 Aug 16 j 20:37	6°♊57'44	
retrograde	-8696 Nov 16 j 07:11	10°♊18'01	
opposition	-8695 Jan 30 j 11:09	8°♊16'54	0°57'12
min. Earth dist.	-8695 Jan 30 j 14:38	8°♊16'32	17.57372 AU
direct	-8695 Apr 17 j 17:58	6°♊13'04	
evening set	-8695 Jul 21 j 07:19	9°♊38'19	
conjunction	-8695 Aug 06 j 00:20	10°♊37'12	0°52'43
minimum elong	-8695 Aug 06 j 00:20	10°♊37'12	0°53'14
max. Earth dist.	-8695 Aug 05 j 21:27	10°♊36'45	19.60167 AU
morning rise	-8695 Aug 21 j 15:12	11°♊35'45	
retrograde	-8695 Nov 21 j 04:40	14°♊55'39	
opposition	-8694 Feb 04 j 13:24	12°♊54'39	1°00'10
min. Earth dist.	-8694 Feb 04 j 13:56	12°♊54'35	17.63055 AU
direct	-8694 Apr 22 j 19:48	10°♊51'12	
evening set	-8694 Jul 26 j 02:27	14°♊15'17	
conjunction	-8694 Aug 10 j 18:45	15°♊13'52	0°55'13
minimum elong	-8694 Aug 10 j 18:45	15°♊13'52	0°55'44
max. Earth dist.	-8694 Aug 10 j 19:26	15°♊13'58	19.65970 AU
morning rise	-8694 Aug 26 j 08:51	16°♊12'09	
retrograde	-8694 Nov 26 j 00:39	19°♊31'35	
opposition	-8693 Feb 09 j 15:08	17°♊30'41	1°02'44
min. Earth dist.	-8693 Feb 09 j 13:38	17°♊30'51	17.68963 AU
direct	-8693 Apr 27 j 21:08	15°♊27'38	
evening set	-8693 Jul 30 j 20:57	18°♊50'28	
conjunction	-8693 Aug 15 j 12:16	19°♊48'44	0°57'20
minimum elong	-8693 Aug 15 j 12:15	19°♊48'44	0°57'53
max. Earth dist.	-8693 Aug 15 j 14:14	19°♊49'03	19.71979 AU
morning rise	-8693 Aug 31 j 02:01	20°♊46'46	
retrograde	-8693 Nov 30 j 20:47	24°♊05'42	
opposition	-8692 Feb 14 j 16:04	22°♊04'53	1°04'52
min. Earth dist.	-8692 Feb 14 j 12:07	22°♊05'17	17.75070 AU
direct	-8692 May 01 j 20:51	20°♊02'11	
evening set	-8692 Aug 03 j 14:18	23°♊23'44	
conjunction	-8692 Aug 19 j 05:03	24°♊21'42	0°59'05
minimum elong	-8692 Aug 19 j 05:03	24°♊21'42	0°59'37
max. Earth dist.	-8692 Aug 19 j 10:25	24°♊22'33	19.78168 AU
morning rise	-8692 Sep 03 j 18:14	25°♊19'28	
retrograde	-8692 Dec 04 j 15:55	28°♊37'51	
opposition	-8691 Feb 18 j 16:30	26°♊37'06	1°06'35
min. Earth dist.	-8691 Feb 18 j 10:08	26°♊37'45	17.81332 AU
direct	-8691 May 06 j 20:28	24°♊34'46	
evening set	-8691 Aug 08 j 06:40	27°♊54'57	
conjunction	-8691 Aug 23 j 20:38	28°♊52'37	1°00'27
minimum elong	-8691 Aug 23 j 20:38	28°♊52'37	1°01'01
max. Earth dist.	-8691 Aug 24 j 03:34	28°♊53'41	19.84512 AU
morning rise	-8691 Sep 08 j 09:40	29°♊50'08	
	-8691 Sep 11 j 03:02	0°♋	
retrograde	-8691 Dec 09 j 10:36	3°♋07'57	
opposition	-8690 Feb 23 j 16:15	1°♋07'13	1°07'52
min. Earth dist.	-8690 Feb 23 j 07:41	1°♋08'06	17.87766 AU
	-8690 Mar 24 j 09:58	30°℞♊	
direct	-8690 May 11 j 18:06	29°♊05'14	
	-8690 Jun 27 j 02:06	0°♋	
evening set	-8690 Aug 12 j 21:58	2°♋24'02	
conjunction	-8690 Aug 28 j 11:34	3°♋21'24	1°01'27
minimum elong	-8690 Aug 28 j 11:34	3°♋21'24	1°02'00
max. Earth dist.	-8690 Aug 28 j 21:52	3°♋23'00	19.91022 AU
morning rise	-8690 Sep 13 j 00:16	4°♋18'40	
retrograde	-8690 Dec 14 j 04:59	7°♋35'53	
opposition	-8689 Feb 28 j 14:56	5°♋35'11	1°08'44
min. Earth dist.	-8689 Feb 28 j 03:35	5°♋36'21	17.94352 AU
direct	-8689 May 16 j 16:25	3°♋33'32	
evening set	-8689 Aug 17 j 12:25	6°♋50'58	
conjunction	-8689 Sep 02 j 01:27	7°♋48'02	1°02'03

Attention, astronomical year style is used: The year -8689 in astronomical counting style is the year 8690 BCE in historical counting style.

minimum elong	-8689 Sep 02 j 01:27	7°♋48'02	1°02'37
max. Earth dist.	-8689 Sep 02 j 13:30	7°♋49'53	19.97690 AU
morning rise	-8689 Sep 17 j 14:10	8°♋45'03	
retrograde	-8689 Dec 18 j 21:51	12°♋01'40	
opposition	-8688 Mar 04 j 12:59	10°♋01'00	1°09'11
min. Earth dist.	-8688 Mar 03 j 23:42	10°♋02'21	18.01117 AU
direct	-8688 May 20 j 11:44	7°♋59'43	
evening set	-8688 Aug 21 j 01:45	11°♋15'45	
conjunction	-8688 Sep 05 j 14:32	12°♋12'32	1°02'18
minimum elong	-8688 Sep 05 j 14:32	12°♋12'32	1°02'52
max. Earth dist.	-8688 Sep 06 j 05:48	12°♋14'53	20.04533 AU
morning rise	-8688 Sep 21 j 03:05	13°♋09'18	
retrograde	-8688 Dec 22 j 15:28	16°♋25'20	
opposition	-8687 Mar 09 j 10:09	14°♋24'43	1°09'14
min. Earth dist.	-8687 Mar 08 j 17:44	14°♋26'24	18.08037 AU
direct	-8687 May 25 j 08:32	12°♋23'50	
evening set	-8687 Aug 25 j 14:25	15°♋38'31	
conjunction	-8687 Sep 10 j 02:49	16°♋35'01	1°02'11
minimum elong	-8687 Sep 10 j 02:49	16°♋35'01	1°02'44
max. Earth dist.	-8687 Sep 10 j 19:59	16°♋37'38	20.11529 AU
morning rise	-8687 Sep 25 j 15:33	17°♋31'34	
retrograde	-8687 Dec 27 j 06:47	20°♋47'00	
opposition	-8686 Mar 14 j 06:34	18°♋46'29	1°08'53
min. Earth dist.	-8686 Mar 13 j 12:34	18°♋48'19	18.15114 AU
direct	-8686 May 30 j 01:33	16°♋46'01	
evening set	-8686 Aug 30 j 02:02	19°♋59'20	
conjunction	-8686 Sep 14 j 14:26	20°♋55'35	1°01'43
minimum elong	-8686 Sep 14 j 14:26	20°♋55'35	1°02'17
max. Earth dist.	-8686 Sep 15 j 10:24	20°♋58'38	20.18658 AU
morning rise	-8686 Sep 30 j 03:16	21°♋51'55	
retrograde	-8686 Dec 31 j 23:31	25°♋06'46	
min. Earth dist.	-8685 Mar 18 j 04:59	23°♋08'31	18.22274 AU
opposition	-8685 Mar 19 j 01:59	23°♋06'23	1°08'08
direct	-8685 Jun 03 j 20:26	21°♋06'20	
evening set	-8685 Sep 03 j 13:03	24°♋18'22	
conjunction	-8685 Sep 19 j 01:17	25°♋14'22	1°00'54
minimum elong	-8685 Sep 19 j 01:18	25°♋14'22	1°01'26
max. Earth dist.	-8685 Sep 19 j 22:59	25°♋17'39	20.25833 AU
morning rise	-8685 Oct 04 j 14:27	26°♋10'29	
retrograde	-8684 Jan 05 j 13:38	29°♋24'47	
opposition	-8684 Mar 22 j 20:41	27°♋24'32	1°07'01
min. Earth dist.	-8684 Mar 21 j 22:40	27°♋26'46	18.29463 AU
direct	-8684 Jun 07 j 11:19	25°♋24'56	
evening set	-8684 Sep 06 j 23:16	28°♋35'41	
conjunction	-8684 Sep 22 j 11:38	29°♋31'27	0°59'45
minimum elong	-8684 Sep 22 j 11:38	29°♋31'27	1°00'17
max. Earth dist.	-8684 Sep 23 j 11:34	29°♋35'04	20.33011 AU
	-8684 Sep 30 j 09:00	0°♌	
morning rise	-8684 Oct 08 j 01:03	0°♌27'23	
retrograde	-8683 Jan 09 j 05:08	3°♌41'07	
opposition	-8683 Mar 27 j 14:32	1°♌41'01	1°05'31
min. Earth dist.	-8683 Mar 26 j 13:46	1°♌43'31	18.36602 AU
	-8683 May 16 j 02:18	30°℞♋	
direct	-8683 Jun 12 j 04:39	29°♋41'52	
	-8683 Jul 08 j 14:57	0°♌	
evening set	-8683 Sep 11 j 08:49	2°♌51'22	
conjunction	-8683 Sep 26 j 21:13	3°♌46'55	0°58'16
minimum elong	-8683 Sep 26 j 21:13	3°♌46'55	0°58'46
max. Earth dist.	-8683 Sep 27 j 22:42	3°♌50'44	20.40091 AU
morning rise	-8683 Oct 12 j 11:08	4°♌42'40	
retrograde	-8682 Jan 13 j 18:30	7°♌55'53	

min. Earth dist.	-8682 Mar 31 j 06:33	5°♌58'27	18.43620 AU
opposition	-8682 Apr 01 j 07:46	5°♌55'53	1°03'41
direct	-8682 Jun 16 j 17:58	3°♌57'09	
evening set	-8682 Sep 15 j 17:50	7°♌05'27	
conjunction	-8682 Oct 01 j 06:32	8°♌00'48	0°56'29
minimum elong	-8682 Oct 01 j 06:32	8°♌00'48	0°56'58
max. Earth dist.	-8682 Oct 02 j 09:34	8°♌04'50	20.47016 AU
morning rise	-8682 Oct 16 j 20:54	8°♌56'23	
retrograde	-8681 Jan 18 j 08:34	12°♌09'03	
opposition	-8681 Apr 05 j 23:50	10°♌09'12	1°01'30
min. Earth dist.	-8681 Apr 04 j 20:22	10°♌11'58	18.50431 AU
direct	-8681 Jun 21 j 09:26	8°♌10'51	
evening set	-8681 Sep 20 j 02:19	11°♌17'59	
conjunction	-8681 Oct 05 j 15:15	12°♌13'08	0°54'24
minimum elong	-8681 Oct 05 j 15:15	12°♌13'08	0°54'51
max. Earth dist.	-8681 Oct 06 j 19:24	12°♌17'19	20.53687 AU
morning rise	-8681 Oct 21 j 06:13	13°♌08'33	
	-8681 Nov 25 j 20:46	15°♌	
retrograde	-8680 Jan 22 j 20:37	16°♌20'42	
	-8680 Mar 24 j 04:00	15°℞♌	
min. Earth dist.	-8680 Apr 08 j 11:59	14°♌23'42	18.56967 AU
opposition	-8680 Apr 09 j 15:27	14°♌20'56	0°59'00
direct	-8680 Jun 24 j 21:33	12°♌22'57	
	-8680 Sep 14 j 22:37	15°♌	
evening set	-8680 Sep 23 j 10:04	15°♌28'56	
conjunction	-8680 Oct 08 j 23:25	16°♌23'54	0°52'02
minimum elong	-8680 Oct 08 j 23:25	16°♌23'54	0°52'27
max. Earth dist.	-8680 Oct 10 j 04:37	16°♌28'14	20.60067 AU
morning rise	-8680 Oct 24 j 15:00	17°♌19'11	
retrograde	-8679 Jan 26 j 09:17	20°♌30'49	
min. Earth dist.	-8679 Apr 13 j 00:43	18°♌34'05	18.63174 AU
opposition	-8679 Apr 14 j 06:10	18°♌31'08	0°56'12
direct	-8679 Jun 29 j 11:07	16°♌33'26	
evening set	-8679 Sep 27 j 17:27	19°♌38'20	
conjunction	-8679 Oct 13 j 07:13	20°♌33'08	0°49'24
minimum elong	-8679 Oct 13 j 07:13	20°♌33'08	0°49'49
max. Earth dist.	-8679 Oct 14 j 13:20	20°♌37'35	20.66089 AU
morning rise	-8679 Oct 28 j 23:33	21°♌28'17	
retrograde	-8678 Jan 30 j 19:52	24°♌39'23	
opposition	-8678 Apr 18 j 20:04	22°♌39'44	0°53'08
min. Earth dist.	-8678 Apr 17 j 15:00	22°♌42'39	18.69022 AU
direct	-8678 Jul 03 j 21:44	20°♌42'18	
evening set	-8678 Oct 02 j 00:10	23°♌46'07	
conjunction	-8678 Oct 17 j 14:33	24°♌40'47	0°46'32
minimum elong	-8678 Oct 17 j 14:33	24°♌40'47	0°46'55
max. Earth dist.	-8678 Oct 18 j 21:18	24°♌45'19	20.71760 AU
morning rise	-8678 Nov 02 j 07:40	25°♌35'50	
retrograde	-8677 Feb 04 j 07:11	28°♌46'24	
min. Earth dist.	-8677 Apr 22 j 02:16	26°♌49'50	18.74505 AU
opposition	-8677 Apr 23 j 09:01	26°♌46'45	0°49'49
direct	-8677 Jul 08 j 09:27	24°♌49'32	
evening set	-8677 Oct 06 j 06:23	27°♌52'21	
conjunction	-8677 Oct 21 j 21:18	28°♌46'52	0°43'27
minimum elong	-8677 Oct 21 j 21:18	28°♌46'52	0°43'48
max. Earth dist.	-8677 Oct 23 j 04:58	28°♌51'30	20.77057 AU
morning rise	-8677 Nov 06 j 15:14	29°♌41'49	
	-8677 Nov 11 j 23:52	0°♍	
retrograde	-8676 Feb 08 j 16:11	2°♍51'52	
opposition	-8676 Apr 26 j 21:14	0°♍52'13	0°46'16
min. Earth dist.	-8676 Apr 25 j 14:58	0°♍55'15	18.79638 AU
	-8676 May 19 j 08:25	30°℞♌	

Attention, astronomical year style is used: The year -8676 in astronomical counting style is the year 8677 BCE in historical counting style.

direct	-8676 Jul 11 j 18:19	28°♌55'12	
	-8676 Aug 31 j 14:44	0°♍	
evening set	-8676 Oct 09 j 12:07	1°♍57'02	
conjunction	-8676 Oct 25 j 03:43	2°♍51'27	0°40'10
minimum elong	-8676 Oct 25 j 03:43	2°♍51'27	0°40'28
max. Earth dist.	-8676 Oct 26 j 11:56	2°♍56'09	20.82039 AU
morning rise	-8676 Nov 09 j 22:31	3°♍46'18	
retrograde	-8675 Feb 12 j 02:48	6°♍55'53	
min. Earth dist.	-8675 Apr 30 j 00:45	4°♍59'23	18.84466 AU
opposition	-8675 May 01 j 08:34	4°♍56'12	0°42'31
direct	-8675 Jul 16 j 04:14	2°♍59'21	
evening set	-8675 Oct 13 j 17:27	6°♍00'19	
conjunction	-8675 Oct 29 j 09:45	6°♍54'37	0°36'42
minimum elong	-8675 Oct 29 j 09:45	6°♍54'37	0°36'58
max. Earth dist.	-8675 Oct 30 j 18:53	6°♍59'26	20.86708 AU
morning rise	-8675 Nov 14 j 05:29	7°♍49'24	
retrograde	-8674 Feb 16 j 10:46	10°♍58'32	
opposition	-8674 May 05 j 19:16	8°♍58'52	0°38'35
min. Earth dist.	-8674 May 04 j 12:00	9°♍02'00	18.88993 AU
direct	-8674 Jul 20 j 11:28	7°♍02'11	
evening set	-8674 Oct 17 j 22:32	10°♍02'20	
conjunction	-8674 Nov 02 j 15:37	10°♍56'33	0°33'05
minimum elong	-8674 Nov 02 j 15:37	10°♍56'33	0°33'19
max. Earth dist.	-8674 Nov 04 j 00:58	11°♍01'23	20.91094 AU
morning rise	-8674 Nov 18 j 12:16	11°♍51'17	
retrograde	-8673 Feb 20 j 20:57	15°♍00'00	
min. Earth dist.	-8673 May 08 j 20:31	13°♍03'35	18.93229 AU
opposition	-8673 May 10 j 04:59	13°♍00'20	0°34'28
direct	-8673 Jul 24 j 19:35	11°♍03'49	
evening set	-8673 Oct 22 j 03:20	14°♍03'15	
conjunction	-8673 Nov 06 j 21:12	14°♍57'25	0°29'18
minimum elong	-8673 Nov 06 j 21:12	14°♍57'25	0°29'30
max. Earth dist.	-8673 Nov 08 j 07:13	15°♍02'20	20.95170 AU
morning rise	-8673 Nov 22 j 18:50	15°♍52'06	
retrograde	-8672 Feb 25 j 04:30	19°♍00'28	
min. Earth dist.	-8672 May 12 j 06:39	17°♍04'00	18.97150 AU
opposition	-8672 May 13 j 14:22	17°♍00'50	0°30'13
direct	-8672 Jul 28 j 01:42	15°♍04'30	
evening set	-8672 Oct 25 j 07:47	18°♍03'17	
conjunction	-8672 Nov 10 j 02:33	18°♍57'24	0°25'24
minimum elong	-8672 Nov 10 j 02:33	18°♍57'24	0°25'36
max. Earth dist.	-8672 Nov 11 j 12:31	19°♍02'17	20.98936 AU
morning rise	-8672 Nov 26 j 01:13	19°♍52'03	
retrograde	-8671 Feb 28 j 14:23	23°♍00'06	
opposition	-8671 May 17 j 23:07	21°♍00'31	0°25'49
min. Earth dist.	-8671 May 16 j 14:33	21°♍03'46	19.00735 AU
direct	-8671 Aug 01 j 08:22	19°♍04'21	
evening set	-8671 Oct 29 j 12:21	22°♍02'34	
conjunction	-8671 Nov 14 j 08:00	22°♍56'40	0°21'23
minimum elong	-8671 Nov 14 j 08:00	22°♍56'40	0°21'32
max. Earth dist.	-8671 Nov 15 j 18:17	23°♍01'35	21.02327 AU
morning rise	-8671 Nov 30 j 07:42	23°♍51'19	
retrograde	-8670 Mar 04 j 21:48	26°♍59'05	
min. Earth dist.	-8670 May 20 j 23:56	25°♍02'42	19.03927 AU
opposition	-8670 May 22 j 07:17	24°♍59'33	0°21'19
direct	-8670 Aug 05 j 13:48	23°♍03'33	
evening set	-8670 Nov 02 j 16:52	26°♍01'17	
conjunction	-8670 Nov 18 j 13:29	26°♍55'22	0°17'17
minimum elong	-8670 Nov 18 j 13:29	26°♍55'23	0°17'23
max. Earth dist.	-8670 Nov 19 j 23:05	27°♍00'11	21.05316 AU
morning rise	-8670 Dec 04 j 14:15	27°♍50'02	
	-8669 Jan 18 j 15:15	0°♎	
retrograde	-8669 Mar 09 j 07:32	0°♎57'34	
	-8669 Apr 29 j 13:23	30°℞♍	
min. Earth dist.	-8669 May 25 j 07:21	29°♍01'16	19.06686 AU
opposition	-8669 May 26 j 14:59	28°♍58'05	0°16'42
direct	-8669 Aug 09 j 19:26	27°♍02'13	
evening set	-8669 Nov 06 j 21:23	29°♍59'34	
	-8669 Nov 07 j 00:28	0°♎	
conjunction	-8669 Nov 22 j 18:54	0°♎53'40	0°13'06
minimum elong	-8669 Nov 22 j 18:54	0°♎53'40	0°13'09
behind sun begin	-8669 Nov 22 j 14:58	0°♎53'07	
behind sun end	-8669 Nov 22 j 22:50	0°♎54'13	
max. Earth dist.	-8669 Nov 24 j 04:22	0°♎58'26	21.07825 AU
morning rise	-8669 Dec 08 j 20:40	1°♎48'21	
retrograde	-8668 Mar 12 j 14:31	4°♎55'42	
opposition	-8668 May 29 j 22:22	2°♎56'15	0°12'02
min. Earth dist.	-8668 May 28 j 16:16	2°♎59'17	19.08943 AU
direct	-8668 Aug 13 j 00:22	1°♎00'30	
evening set	-8668 Nov 10 j 02:05	3°♎57'31	
conjunction	-8668 Nov 26 j 00:36	4°♎51'39	0°08'51
minimum elong	-8668 Nov 26 j 00:36	4°♎51'39	0°08'52
behind sun begin	-8668 Nov 25 j 18:54	4°♎50'51	
behind sun end	-8668 Nov 26 j 06:17	4°♎52'26	
max. Earth dist.	-8668 Nov 27 j 08:52	4°♎56'14	21.09831 AU
morning rise	-8668 Dec 12 j 03:27	5°♎46'22	
retrograde	-8667 Mar 17 j 00:15	8°♎53'33	
min. Earth dist.	-8667 Jun 01 j 23:24	6°♎57'08	19.10670 AU
opposition	-8667 Jun 03 j 05:15	6°♎54'08	0°07'18
direct	-8667 Aug 17 j 05:43	4°♎58'25	
evening set	-8667 Nov 14 j 06:59	7°♎55'13	
conjunction	-8667 Nov 30 j 06:32	8°♎49'23	0°04'35
minimum elong	-8667 Nov 30 j 06:31	8°♎49'23	0°04'34
behind sun begin	-8667 Nov 30 j 00:02	8°♎48'29	
behind sun end	-8667 Nov 30 j 13:01	8°♎50'16	
max. Earth dist.	-8667 Dec 01 j 14:06	8°♎53'52	21.11261 AU
morning rise	-8667 Dec 16 j 10:26	9°♎44'09	
retrograde	-8666 Mar 21 j 06:57	12°♎51'12	
min. Earth dist.	-8666 Jun 06 j 07:58	10°♎54'35	19.11802 AU
opposition	-8666 Jun 07 j 11:54	10°♎51'47	0°02'33
direct	-8666 Aug 21 j 09:52	8°♎56'05	
evening set	-8666 Nov 18 j 12:00	11°♎52'41	
conjunction	-8666 Dec 04 j 12:34	12°♎46'54	0°00'13
minimum elong	-8666 Dec 04 j 12:34	12°♎46'54	0°00'09
behind sun begin	-8666 Dec 04 j 06:02	12°♎46'00	
behind sun end	-8666 Dec 04 j 19:06	12°♎47'48	
max. Earth dist.	-8666 Dec 05 j 18:27	12°♎51'09	21.12104 AU
morning rise	-8666 Dec 20 j 17:34	13°♎41'45	
desc. node	-8666 Dec 23 j 00:46	13°♎49'22	
retrograde	-8665 Mar 25 j 16:15	16°♎48'41	
opposition	-8665 Jun 11 j 18:02	14°♎49'13	-0°02'13
min. Earth dist.	-8665 Jun 10 j 14:42	14°♎51'58	19.12341 AU
direct	-8665 Aug 25 j 15:18	12°♎53'28	
evening set	-8665 Nov 22 j 17:09	15°♎49'58	
conjunction	-8665 Dec 08 j 18:46	16°♎44'16	-0°04'10
minimum elong	-8665 Dec 08 j 18:46	16°♎44'16	0°04'15
behind sun begin	-8665 Dec 08 j 12:14	16°♎43'22	
behind sun end	-8665 Dec 09 j 01:19	16°♎45'10	
max. Earth dist.	-8665 Dec 09 j 23:47	16°♎48'22	21.12348 AU
morning rise	-8665 Dec 25 j 00:48	17°♎39'11	
retrograde	-8664 Mar 28 j 22:45	20°♎46'01	
min. Earth dist.	-8664 Jun 13 j 22:40	18°♎49'03	19.12298 AU

Attention, astronomical year style is used: The year -8664 in astronomical counting style is the year 8665 BCE in historical counting style.

opposition	-8664 Jun 15 j 00:02	18°♎46'29	-0°06'57
direct	-8664 Aug 28 j 18:42	16°♎50'39	
evening set	-8664 Nov 25 j 22:21	19°♎47'06	
conjunction	-8664 Dec 12 j 01:03	20°♎41'29	-0°08'25
minimum elong	-8664 Dec 12 j 01:03	20°♎41'29	0°08'33
behind sun begin	-8664 Dec 11 j 19:15	20°♎40'41	
behind sun end	-8664 Dec 12 j 06:51	20°♎42'17	
max. Earth dist.	-8664 Dec 13 j 04:21	20°♎45'21	21.12048 AU
morning rise	-8664 Dec 28 j 08:12	21°♎36'30	
retrograde	-8663 Apr 02 j 07:33	24°♎43'17	
min. Earth dist.	-8663 Jun 18 j 05:03	22°♎46'08	19.11732 AU
opposition	-8663 Jun 19 j 05:39	22°♎43'38	-0°11'39
direct	-8663 Sep 02 j 00:11	20°♎47'40	
evening set	-8663 Nov 30 j 03:57	23°♎44'09	
conjunction	-8663 Dec 16 j 07:44	24°♎38'39	-0°12'37
minimum elong	-8663 Dec 16 j 07:44	24°♎38'39	0°12'47
behind sun begin	-8663 Dec 16 j 03:36	24°♎38'05	
behind sun end	-8663 Dec 16 j 11:51	24°♎39'13	
max. Earth dist.	-8663 Dec 17 j 10:08	24°♎42'23	21.11230 AU
morning rise	-8662 Jan 01 j 15:52	25°♎33'46	
retrograde	-8662 Apr 06 j 14:21	28°♎40'31	
opposition	-8662 Jun 23 j 10:55	26°♎40'47	-0°16'17
min. Earth dist.	-8662 Jun 22 j 12:20	26°♎43'04	19.10680 AU
direct	-8662 Sep 06 j 03:31	24°♎44'40	
evening set	-8662 Dec 04 j 09:47	27°♎41'16	
conjunction	-8662 Dec 20 j 14:36	28°♎35'53	-0°16'46
minimum elong	-8662 Dec 20 j 14:36	28°♎35'52	0°16'59
max. Earth dist.	-8662 Dec 21 j 15:10	28°♎39'21	21.09970 AU
morning rise	-8661 Jan 05 j 23:48	29°♎31'07	
	-8661 Jan 14 j 20:47	0°♏	
retrograde	-8661 Apr 10 j 22:50	2°♏37'53	
opposition	-8661 Jun 27 j 16:03	0°♏38'03	-0°20'51
min. Earth dist.	-8661 Jun 26 j 18:15	0°♏40'16	19.09211 AU
	-8661 Jul 13 j 13:22	30°℞♎	
direct	-8661 Sep 10 j 08:14	28°♎41'46	
	-8661 Nov 05 j 20:50	0°♏	
evening set	-8661 Dec 08 j 15:47	1°♏38'34	
conjunction	-8661 Dec 24 j 21:39	2°♏33'19	-0°20'51
minimum elong	-8661 Dec 24 j 21:39	2°♏33'19	0°21'06
max. Earth dist.	-8661 Dec 25 j 21:21	2°♏36'40	21.08294 AU
morning rise	-8660 Jan 10 j 07:46	3°♏28'41	
retrograde	-8660 Apr 14 j 06:12	6°♏35'32	
opposition	-8660 Jun 30 j 21:10	4°♏35'37	-0°25'19
min. Earth dist.	-8660 Jun 30 j 01:16	4°♏37'38	19.07345 AU
direct	-8660 Sep 13 j 12:08	2°♏39'10	
evening set	-8660 Dec 11 j 22:20	5°♏36'15	
conjunction	-8660 Dec 28 j 05:15	6°♏31'09	-0°24'51
minimum elong	-8660 Dec 28 j 05:14	6°♏31'09	0°25'06
max. Earth dist.	-8660 Dec 29 j 02:53	6°♏34'13	21.06257 AU
morning rise	-8659 Jan 13 j 16:24	7°♏26'40	
retrograde	-8659 Apr 18 j 14:51	10°♏33'38	
min. Earth dist.	-8659 Jul 04 j 07:07	8°♏35'34	19.05126 AU
opposition	-8659 Jul 05 j 02:04	8°♏33'38	-0°29'40
direct	-8659 Sep 17 j 16:09	6°♏37'01	
evening set	-8659 Dec 16 j 05:23	9°♏34'29	
conjunction	-8658 Jan 01 j 13:23	10°♏29'34	-0°28'43
minimum elong	-8658 Jan 01 j 13:23	10°♏29'34	0°29'02
max. Earth dist.	-8658 Jan 02 j 09:53	10°♏32'28	21.03849 AU
morning rise	-8658 Jan 18 j 01:24	11°♏25'13	
retrograde	-8658 Apr 22 j 22:46	14°♏32'21	
opposition	-8658 Jul 09 j 07:07	12°♏32'19	-0°33'54
min. Earth dist.	-8658 Jul 08 j 14:13	12°♏34'03	19.02536 AU
direct	-8658 Sep 21 j 20:42	10°♏35'32	
evening set	-8658 Dec 20 j 12:57	13°♏33'27	
conjunction	-8657 Jan 05 j 21:54	14°♏28'43	-0°32'29
minimum elong	-8657 Jan 05 j 21:54	14°♏28'43	0°32'49
max. Earth dist.	-8657 Jan 06 j 16:01	14°♏31'17	21.01090 AU
	-8657 Jan 15 j 03:01	15°♏	
morning rise	-8657 Jan 22 j 10:52	15°♏24'32	
retrograde	-8657 Apr 27 j 07:53	18°♏31'53	
opposition	-8657 Jul 13 j 12:10	16°♏31'49	-0°37'59
min. Earth dist.	-8657 Jul 12 j 20:28	16°♏33'25	18.99590 AU
	-8657 Aug 25 j 08:42	15°℞♏	
direct	-8657 Sep 26 j 01:11	14°♏34'50	
	-8657 Oct 27 j 08:37	15°♏	
evening set	-8657 Dec 24 j 21:08	17°♏33'19	
conjunction	-8656 Jan 10 j 07:08	18°♏28'47	-0°36'06
minimum elong	-8656 Jan 10 j 07:07	18°♏28'47	0°36'29
max. Earth dist.	-8656 Jan 10 j 23:56	18°♏31'09	20.97952 AU
morning rise	-8656 Jan 26 j 20:51	19°♏24'47	
retrograde	-8656 Apr 30 j 16:17	22°♏32'22	
opposition	-8656 Jul 16 j 17:26	20°♏32'17	-0°41'54
min. Earth dist.	-8656 Jul 16 j 04:00	20°♏33'40	18.96258 AU
direct	-8656 Sep 29 j 05:49	18°♏35'07	
evening set	-8656 Dec 28 j 06:01	21°♏34'14	
conjunction	-8655 Jan 13 j 16:58	22°♏29'54	-0°39'33
minimum elong	-8655 Jan 13 j 16:58	22°♏29'54	0°39'57
max. Earth dist.	-8655 Jan 14 j 06:57	22°♏31'53	20.94432 AU
morning rise	-8655 Jan 30 j 07:37	23°♏26'05	
retrograde	-8655 May 05 j 02:36	26°♏33'59	
opposition	-8655 Jul 20 j 22:54	24°♏33'51	-0°45'38
min. Earth dist.	-8655 Jul 20 j 11:08	24°♏35'04	18.92523 AU
direct	-8655 Oct 03 j 11:35	22°♏36'27	
evening set	-8654 Jan 01 j 15:47	25°♏36'17	
conjunction	-8654 Jan 18 j 03:43	26°♏32'11	-0°42'49
minimum elong	-8654 Jan 18 j 03:43	26°♏32'11	0°43'15
max. Earth dist.	-8654 Jan 18 j 15:58	26°♏33'55	20.90466 AU
morning rise	-8654 Feb 03 j 18:59	27°♏28'34	
	-8654 Mar 31 j 10:50	0°♐	
retrograde	-8654 May 09 j 11:16	0°♐36'45	
	-8654 Jun 17 j 22:08	30°℞♏	
opposition	-8654 Jul 25 j 04:35	28°♏36'36	-0°49'09
min. Earth dist.	-8654 Jul 24 j 19:25	28°♏37'33	18.88328 AU
direct	-8654 Oct 07 j 16:37	26°♏38'57	
evening set	-8653 Jan 06 j 02:16	29°♏39'33	
	-8653 Jan 12 j 04:11	0°♐	
conjunction	-8653 Jan 22 j 15:03	0°♐35'40	-0°45'54
minimum elong	-8653 Jan 22 j 15:02	0°♐35'40	0°46'21
max. Earth dist.	-8653 Jan 22 j 23:58	0°♐36'56	20.86049 AU
morning rise	-8653 Feb 08 j 07:07	1°♐32'16	
retrograde	-8653 May 13 j 22:33	4°♐40'48	
opposition	-8653 Jul 29 j 10:40	2°♐40'34	-0°52'27
min. Earth dist.	-8653 Jul 29 j 03:27	2°♐41'18	18.83677 AU
direct	-8653 Oct 11 j 23:42	0°♐42'36	
evening set	-8652 Jan 10 j 13:17	3°♐44'02	
conjunction	-8652 Jan 27 j 03:02	4°♐40'24	-0°48'45
minimum elong	-8652 Jan 27 j 03:02	4°♐40'24	0°49'13
max. Earth dist.	-8652 Jan 27 j 10:07	4°♐41'24	20.81154 AU
morning rise	-8652 Feb 12 j 19:39	5°♐37'11	
retrograde	-8652 May 17 j 07:48	8°♐46'05	
opposition	-8652 Aug 01 j 17:09	6°♐45'45	-0°55'29
min. Earth dist.	-8652 Aug 01 j 12:29	6°♐46'14	18.78547 AU

Attention, astronomical year style is used: The year -8652 in astronomical counting style is the year 8653 BCE in historical counting style.

direct	-8652 Oct 15 j 05:57	4°♐47'27	
evening set	-8651 Jan 14 j 01:17	7°♐49'45	
conjunction	-8651 Jan 30 j 15:48	8°♐46'21	-0°51'22
minimum elong	-8651 Jan 30 j 15:48	8°♐46'21	0°51'52
max. Earth dist.	-8651 Jan 30 j 19:18	8°♐46'51	20.75815 AU
morning rise	-8651 Feb 16 j 09:10	9°♐43'22	
retrograde	-8651 May 21 j 19:26	12°♐52'38	
opposition	-8651 Aug 05 j 23:45	10°♐52'10	-0°58'16
min. Earth dist.	-8651 Aug 05 j 21:16	10°♐52'26	18.72998 AU
direct	-8651 Oct 19 j 14:00	8°♐53'28	
evening set	-8650 Jan 18 j 13:59	11°♐56'43	
conjunction	-8650 Feb 04 j 05:25	12°♐53'35	-0°53'44
minimum elong	-8650 Feb 04 j 05:25	12°♐53'35	0°54'14
max. Earth dist.	-8650 Feb 04 j 07:05	12°♐53'49	20.70063 AU
morning rise	-8650 Feb 20 j 23:09	13°♐50'49	
retrograde	-8650 May 26 j 05:53	17°♐00'27	
opposition	-8650 Aug 10 j 06:51	14°♐59'51	-1°00'45
min. Earth dist.	-8650 Aug 10 j 06:47	14°♐59'51	18.67067 AU
direct	-8650 Oct 23 j 21:38	13°♐00'44	
evening set	-8649 Jan 23 j 03:22	16°♐04'58	
conjunction	-8649 Feb 08 j 19:25	17°♐02'06	-0°55'49
minimum elong	-8649 Feb 08 j 19:24	17°♐02'06	0°56'22
max. Earth dist.	-8649 Feb 08 j 17:35	17°♐01'50	20.63984 AU
morning rise	-8649 Feb 25 j 13:45	17°♐59'34	
retrograde	-8649 May 30 j 17:52	21°♐09'37	
opposition	-8649 Aug 14 j 14:19	19°♐08'52	-1°02'56
min. Earth dist.	-8649 Aug 14 j 16:16	19°♐08'39	18.60854 AU
direct	-8649 Oct 28 j 06:26	17°♐09'18	
evening set	-8648 Jan 27 j 17:29	20°♐14'36	
conjunction	-8648 Feb 13 j 10:22	21°♐12'00	-0°57'38
minimum elong	-8648 Feb 13 j 10:21	21°♐12'00	0°58'11
max. Earth dist.	-8648 Feb 13 j 07:02	21°♐11'31	20.57643 AU
morning rise	-8648 Mar 01 j 04:57	22°♐09'42	
retrograde	-8648 Jun 03 j 05:42	25°♐20'11	
opposition	-8648 Aug 17 j 22:09	23°♐19'17	-1°04'48
min. Earth dist.	-8648 Aug 18 j 02:14	23°♐18'52	18.54413 AU
direct	-8648 Oct 31 j 15:20	21°♐19'18	
evening set	-8647 Jan 31 j 08:34	24°♐25'43	
conjunction	-8647 Feb 17 j 01:58	25°♐23'24	-0°59'09
minimum elong	-8647 Feb 17 j 01:58	25°♐23'24	0°59'42
max. Earth dist.	-8647 Feb 16 j 19:08	25°♐22'24	20.51124 AU
morning rise	-8647 Mar 05 j 21:05	26°♐21'20	
retrograde	-8647 Jun 07 j 18:38	29°♐32'18	
opposition	-8647 Aug 22 j 06:36	27°♐31'16	-1°06'20
min. Earth dist.	-8647 Aug 22 j 12:42	27°♐30'38	18.47828 AU
direct	-8647 Nov 05 j 01:07	25°♐30'50	
evening set	-8646 Feb 05 j 00:24	28°♐38'27	
conjunction	-8646 Feb 21 j 18:30	29°♐36'24	-1°00'22
minimum elong	-8646 Feb 21 j 18:30	29°♐36'24	1°00'56
max. Earth dist.	-8646 Feb 21 j 10:21	29°♐35'14	20.44470 AU
	-8646 Feb 28 j 12:52	0°♑	
morning rise	-8646 Mar 10 j 13:39	0°♑34'34	
retrograde	-8646 Jun 12 j 07:54	3°♑46'02	
opposition	-8646 Aug 26 j 15:35	1°♑44'55	-1°07'31
min. Earth dist.	-8646 Aug 26 j 23:29	1°♑44'05	18.41133 AU
	-8646 Oct 15 j 15:06	30°℞♐	
direct	-8646 Nov 09 j 11:24	29°♐44'05	
	-8646 Dec 04 j 02:50	0°♑	
evening set	-8645 Feb 09 j 17:11	2°♑52'55	
conjunction	-8645 Feb 26 j 11:37	3°♑51'10	-1°01'16
minimum elong	-8645 Feb 26 j 11:37	3°♑51'10	1°01'49
max. Earth dist.	-8645 Feb 26 j 00:03	3°♑49'29	20.37754 AU
morning rise	-8645 Mar 15 j 07:07	4°♑49'35	
retrograde	-8645 Jun 16 j 22:10	8°♑01'36	
opposition	-8645 Aug 31 j 01:16	6°♑00'24	-1°08'22
min. Earth dist.	-8645 Aug 31 j 11:08	5°♑59'21	18.34407 AU
direct	-8645 Nov 13 j 22:14	3°♑59'09	
evening set	-8644 Feb 14 j 10:35	7°♑09'17	
conjunction	-8644 Mar 02 j 05:41	8°♑07'50	-1°01'50
minimum elong	-8644 Mar 02 j 05:41	8°♑07'50	1°02'24
max. Earth dist.	-8644 Mar 01 j 17:02	8°♑05'59	20.31008 AU
morning rise	-8644 Mar 19 j 01:08	9°♑06'29	
retrograde	-8644 Jun 20 j 13:15	12°♑19'04	
opposition	-8644 Sep 03 j 11:38	10°♑17'49	-1°08'50
min. Earth dist.	-8644 Sep 03 j 23:08	10°♑16'36	18.27650 AU
direct	-8644 Nov 17 j 09:54	8°♑16'12	
evening set	-8643 Feb 18 j 05:19	11°♑27'41	
max. Earth dist.	-8643 Mar 06 j 08:27	12°♑24'08	20.24253 AU
conjunction	-8643 Mar 07 j 00:36	12°♑26'31	-1°02'04
minimum elong	-8643 Mar 07 j 00:36	12°♑26'31	1°02'37
morning rise	-8643 Mar 23 j 20:15	13°♑25'25	
retrograde	-8643 Jun 25 j 05:08	16°♑38'36	
opposition	-8643 Sep 07 j 22:41	14°♑37'19	-1°08'55
min. Earth dist.	-8643 Sep 08 j 12:26	14°♑35'51	18.20899 AU
direct	-8643 Nov 21 j 22:07	12°♑35'20	
evening set	-8642 Feb 23 j 00:51	15°♑48'12	
conjunction	-8642 Mar 11 j 20:35	16°♑47'20	-1°01'56
minimum elong	-8642 Mar 11 j 20:36	16°♑47'20	1°02'29
max. Earth dist.	-8642 Mar 11 j 03:21	16°♑44'47	20.17491 AU
morning rise	-8642 Mar 28 j 16:00	17°♑46'28	
retrograde	-8642 Jun 29 j 22:11	21°♑00'15	
opposition	-8642 Sep 12 j 10:37	18°♑58'58	-1°08'36
min. Earth dist.	-8642 Sep 13 j 01:54	18°♑57'20	18.14129 AU
direct	-8642 Nov 26 j 11:35	16°♑56'38	
evening set	-8641 Feb 27 j 21:21	20°♑10'54	
conjunction	-8641 Mar 16 j 17:06	21°♑10'18	-1°01'27
minimum elong	-8641 Mar 16 j 17:06	21°♑10'18	1°01'59
max. Earth dist.	-8641 Mar 15 j 20:26	21°♑07'14	20.10713 AU
morning rise	-8641 Apr 02 j 12:30	22°♑09'41	
retrograde	-8641 Jul 04 j 15:20	25°♑24'05	
opposition	-8641 Sep 16 j 23:27	23°♑22'46	-1°07'52
min. Earth dist.	-8641 Sep 17 j 17:11	23°♑20'52	18.07350 AU
direct	-8641 Dec 01 j 01:09	21°♑20'05	
evening set	-8640 Mar 03 j 18:47	24°♑35'44	
conjunction	-8640 Mar 20 j 14:50	25°♑35'26	-1°00'35
minimum elong	-8640 Mar 20 j 14:50	25°♑35'26	1°01'07
max. Earth dist.	-8640 Mar 19 j 16:55	25°♑32'10	20.03913 AU
morning rise	-8640 Apr 06 j 09:52	26°♑35'02	
retrograde	-8640 Jul 08 j 10:09	29°♑50'03	
opposition	-8640 Sep 20 j 12:59	27°♑48'42	-1°06'44
min. Earth dist.	-8640 Sep 21 j 08:08	27°♑46'38	18.00534 AU
direct	-8640 Dec 04 j 17:15	25°♑45'37	
evening set	-8639 Mar 08 j 17:22	29°♑02'41	
max. Earth dist.	-8639 Mar 24 j 11:57	29°♑58'51	19.97085 AU
	-8639 Mar 24 j 19:39	0°♒	
conjunction	-8639 Mar 25 j 13:18	0°♒02'38	-0°59'21
minimum elong	-8639 Mar 25 j 13:18	0°♒02'38	0°59'53
morning rise	-8639 Apr 11 j 08:07	1°♒02'29	
retrograde	-8639 Jul 13 j 03:43	4°♒18'04	
opposition	-8639 Sep 25 j 03:36	2°♒16'39	-1°05'12
min. Earth dist.	-8639 Sep 26 j 01:19	2°♒14'18	17.93712 AU

Attention, astronomical year style is used: The year -8639 in astronomical counting style is the year 8640 BCE in historical counting style.

direct	-8639 Dec 09 j 08:28	0°♒13'10	
evening set	-8638 Mar 13 j 16:30	3°♒31'36	
max. Earth dist.	-8638 Mar 29 j 09:58	4°♒27'50	19.90263 AU
conjunction	-8638 Mar 30 j 12:29	4°♒31'49	-0°57'45
minimum elong	-8638 Mar 30 j 12:30	4°♒31'50	0°58'15
morning rise	-8638 Apr 16 j 06:48	5°♒31'51	
retrograde	-8638 Jul 17 j 23:46	8°♒48'01	
opposition	-8638 Sep 29 j 18:55	6°♒46'31	-1°03'14
min. Earth dist.	-8638 Sep 30 j 17:38	6°♒44'03	17.86907 AU
direct	-8638 Dec 14 j 03:23	4°♒42'38	
evening set	-8637 Mar 18 j 16:33	8°♒02'24	
max. Earth dist.	-8637 Apr 03 j 06:59	8°♒58'27	19.83495 AU
conjunction	-8637 Apr 04 j 12:17	9°♒02'52	-0°55'47
minimum elong	-8637 Apr 04 j 12:17	9°♒02'52	0°56'17
morning rise	-8637 Apr 21 j 06:09	10°♒03'06	
retrograde	-8637 Jul 22 j 17:35	13°♒19'48	
opposition	-8637 Oct 04 j 11:07	11°♒18'12	-1°00'52
min. Earth dist.	-8637 Oct 05 j 12:15	11°♒15'28	17.80208 AU
direct	-8637 Dec 18 j 20:43	9°♒13'54	
evening set	-8636 Mar 22 j 17:05	12°♒34'58	
max. Earth dist.	-8636 Apr 07 j 06:25	13°♒31'04	19.76871 AU
conjunction	-8636 Apr 08 j 12:42	13°♒35'40	-0°53'28
minimum elong	-8636 Apr 08 j 12:42	13°♒35'40	0°53'55
morning rise	-8636 Apr 25 j 06:01	14°♒36'04	
	-8636 May 02 j 01:51	15°♒	
retrograde	-8636 Jul 26 j 14:25	17°♒53'18	
opposition	-8636 Oct 08 j 04:03	15°♒51'35	-0°58'07
min. Earth dist.	-8636 Oct 09 j 05:41	15°♒48'47	17.73668 AU
	-8636 Oct 28 j 13:37	15°℞♒	
direct	-8636 Dec 22 j 18:01	13°♒46'53	
	-8635 Feb 14 j 16:13	15°♒	
evening set	-8635 Mar 27 j 18:28	17°♒09'13	
max. Earth dist.	-8635 Apr 12 j 05:28	18°♒05'13	19.70438 AU
conjunction	-8635 Apr 13 j 13:41	18°♒10'07	-0°50'47
minimum elong	-8635 Apr 13 j 13:41	18°♒10'07	0°51'12
morning rise	-8635 Apr 30 j 06:19	19°♒10'41	
retrograde	-8635 Jul 31 j 08:56	22°♒28'25	
opposition	-8635 Oct 12 j 21:56	20°♒26'36	-0°54'58
min. Earth dist.	-8635 Oct 14 j 01:41	20°♒23'35	17.67379 AU
direct	-8635 Dec 27 j 13:29	18°♒21'30	
evening set	-8634 Apr 01 j 20:20	21°♒45'04	
max. Earth dist.	-8634 Apr 17 j 06:07	22°♒41'07	19.64306 AU
conjunction	-8634 Apr 18 j 15:06	22°♒46'09	-0°47'47
minimum elong	-8634 Apr 18 j 15:07	22°♒46'09	0°48'10
morning rise	-8634 May 05 j 07:02	23°♒46'52	
retrograde	-8634 Aug 05 j 06:53	27°♒05'06	
opposition	-8634 Oct 17 j 16:35	25°♒03'10	-0°51'27
min. Earth dist.	-8634 Oct 18 j 20:11	25°♒00'10	17.61418 AU
direct	-8633 Jan 01 j 12:43	22°♒57'43	
evening set	-8633 Apr 06 j 22:33	26°♒22'26	
max. Earth dist.	-8633 Apr 22 j 07:01	27°♒18'31	19.58528 AU
conjunction	-8633 Apr 23 j 16:48	27°♒23'42	-0°44'27
minimum elong	-8633 Apr 23 j 16:49	27°♒23'43	0°44'47
morning rise	-8633 May 10 j 07:51	28°♒24'33	
	-8633 Jun 07 j 21:43	0°♓	
retrograde	-8633 Aug 10 j 02:40	1°♓43'16	
	-8633 Oct 15 j 07:46	30°℞♒	
opposition	-8633 Oct 22 j 12:12	29°♒41'16	-0°47'35
min. Earth dist.	-8633 Oct 23 j 17:27	29°♒38'04	17.55857 AU
direct	-8632 Jan 06 j 09:45	27°♒35'29	
	-8632 Mar 24 j 09:06	0°♓	
evening set	-8632 Apr 11 j 01:27	1°♓01'20	
max. Earth dist.	-8632 Apr 26 j 08:32	1°♓57'25	19.53194 AU
conjunction	-8632 Apr 27 j 19:01	2°♓02'45	-0°40'49
minimum elong	-8632 Apr 27 j 19:02	2°♓02'45	0°41'08
morning rise	-8632 May 14 j 09:17	3°♓03'43	
retrograde	-8632 Aug 14 j 01:41	6°♓22'53	
opposition	-8632 Oct 26 j 08:23	4°♓20'49	-0°43'23
min. Earth dist.	-8632 Oct 27 j 13:07	4°♓17'41	17.50756 AU
direct	-8631 Jan 10 j 10:13	2°♓14'46	
evening set	-8631 Apr 16 j 04:48	5°♓41'41	
max. Earth dist.	-8631 May 01 j 11:20	6°♓37'55	19.48333 AU
conjunction	-8631 May 02 j 21:43	6°♓43'15	-0°36'53
minimum elong	-8631 May 02 j 21:44	6°♓43'15	0°37'10
morning rise	-8631 May 19 j 10:52	7°♓44'18	
retrograde	-8631 Aug 18 j 23:11	11°♓03'55	
opposition	-8631 Oct 31 j 05:45	9°♓01'52	-0°38'52
min. Earth dist.	-8631 Nov 01 j 11:42	8°♓58'35	17.46155 AU
direct	-8630 Jan 15 j 08:49	6°♓55'37	
evening set	-8630 Apr 21 j 08:28	10°♓23'32	
max. Earth dist.	-8630 May 06 j 13:24	11°♓19'44	19.44000 AU
conjunction	-8630 May 08 j 00:26	11°♓25'11	-0°32'42
minimum elong	-8630 May 08 j 00:27	11°♓25'11	0°32'56
morning rise	-8630 May 24 j 12:42	12°♓26'19	
retrograde	-8630 Aug 23 j 23:19	15°♓46'23	
opposition	-8630 Nov 05 j 03:46	13°♓44'21	-0°34'04
min. Earth dist.	-8630 Nov 06 j 08:53	13°♓41'10	17.42079 AU
direct	-8629 Jan 20 j 10:23	11°♓37'57	
evening set	-8629 Apr 26 j 12:28	15°♓06'47	
max. Earth dist.	-8629 May 11 j 17:33	16°♓03'13	19.40180 AU
conjunction	-8629 May 13 j 03:40	16°♓08'32	-0°28'16
minimum elong	-8629 May 13 j 03:40	16°♓08'32	0°28'28
morning rise	-8629 May 29 j 14:41	17°♓09'43	
retrograde	-8629 Aug 28 j 22:10	20°♓30'12	
opposition	-8629 Nov 10 j 02:37	18°♓28'13	-0°29'00
min. Earth dist.	-8629 Nov 11 j 08:39	18°♓24'56	17.38516 AU
direct	-8628 Jan 25 j 10:11	16°♓21'44	
evening set	-8628 Apr 30 j 16:54	19°♓51'25	
max. Earth dist.	-8628 May 15 j 20:02	20°♓47'45	19.36873 AU
conjunction	-8628 May 17 j 06:59	20°♓53'13	-0°23'37
minimum elong	-8628 May 17 j 06:59	20°♓53'13	0°23'45
morning rise	-8628 Jun 02 j 17:02	21°♓54'26	
retrograde	-8628 Sep 01 j 23:21	25°♓15'19	
opposition	-8628 Nov 14 j 02:15	23°♓13'23	-0°23'43
min. Earth dist.	-8628 Nov 15 j 07:33	23°♓10'11	17.35448 AU
direct	-8627 Jan 29 j 12:52	21°♓06'49	
evening set	-8627 May 05 j 21:25	24°♓37'15	
max. Earth dist.	-8627 May 21 j 01:02	25°♓33'49	19.34033 AU
conjunction	-8627 May 22 j 10:33	25°♓39'05	-0°18'47
minimum elong	-8627 May 22 j 10:33	25°♓39'05	0°18'53
morning rise	-8627 Jun 07 j 19:13	26°♓40'18	
	-8627 Aug 30 j 15:26	0°♈	
retrograde	-8627 Sep 06 j 23:23	0°♈01'31	
	-8627 Sep 14 j 07:30	30°℞♓	
opposition	-8627 Nov 19 j 02:51	27°♓59'40	-0°18'14
min. Earth dist.	-8627 Nov 20 j 08:32	27°♓56'25	17.32838 AU
direct	-8626 Feb 03 j 14:14	25°♓53'05	
evening set	-8626 May 11 j 02:12	29°♓24'06	
	-8626 May 20 j 17:13	0°♈	
max. Earth dist.	-8626 May 26 j 03:50	0°♈20'33	19.31659 AU
conjunction	-8626 May 27 j 14:01	0°♈25'56	-0°13'48

Attention, astronomical year style is used: The year -8626 in astronomical counting style is the year 8627 BCE in historical counting style.

minimum elong	-8626 May 27 j 14:01	0°♈25'56	0°13'52
behind sun begin	-8626 May 27 j 10:36	0°♈25'25	
behind sun end	-8626 May 27 j 17:27	0°♈26'28	
morning rise	-8626 Jun 12 j 21:36	1°♈27'09	
retrograde	-8626 Sep 12 j 00:44	4°♈48'40	
opposition	-8626 Nov 24 j 04:00	2°♈46'50	-0°12'37
min. Earth dist.	-8626 Nov 25 j 08:54	2°♈43'41	17.30699 AU
direct	-8625 Feb 08 j 18:01	0°♈40'13	
evening set	-8625 May 16 j 06:41	4°♈11'44	
max. Earth dist.	-8625 May 31 j 09:08	5°♈08'25	19.29744 AU
conjunction	-8625 Jun 01 j 17:29	5°♈13'32	-0°08'44
minimum elong	-8625 Jun 01 j 17:29	5°♈13'32	0°08'44
behind sun begin	-8625 Jun 01 j 11:42	5°♈12'39	
behind sun end	-8625 Jun 01 j 23:17	5°♈14'26	
morning rise	-8625 Jun 17 j 23:41	6°♈14'42	
retrograde	-8625 Sep 17 j 01:08	9°♈36'27	
opposition	-8625 Nov 29 j 05:50	7°♈34'39	-0°06'53
min. Earth dist.	-8625 Nov 30 j 10:28	7°♈31'32	17.29002 AU
direct	-8624 Feb 13 j 21:10	5°♈28'02	
evening set	-8624 May 20 j 11:21	8°♈59'54	
conjunction	-8624 Jun 05 j 20:44	10°♈01'38	-0°03'36
minimum elong	-8624 Jun 05 j 20:45	10°♈01'38	0°03'34
behind sun begin	-8624 Jun 05 j 14:07	10°♈00'37	
behind sun end	-8624 Jun 06 j 03:23	10°♈02'39	
max. Earth dist.	-8624 Jun 04 j 12:08	9°♈56'29	19.28285 AU
morning rise	-8624 Jun 22 j 01:46	11°♈02'44	
retrograde	-8624 Sep 21 j 01:48	14°♈24'40	
opposition	-8624 Dec 03 j 08:03	12°♈22'52	-0°01'06
min. Earth dist.	-8624 Dec 04 j 11:56	12°♈19'51	17.27786 AU
asc. node	-8623 Feb 10 j 05:18	10°♈17'54	
direct	-8623 Feb 18 j 02:23	10°♈16'15	
evening set	-8623 May 25 j 15:37	13°♈48'20	
conjunction	-8623 Jun 10 j 23:51	14°♈49'59	0°01'43
minimum elong	-8623 Jun 10 j 23:51	14°♈49'59	0°01'48
behind sun begin	-8623 Jun 10 j 17:10	14°♈48'57	
behind sun end	-8623 Jun 11 j 06:32	14°♈51'00	
max. Earth dist.	-8623 Jun 09 j 17:24	14°♈45'09	19.27320 AU
morning rise	-8623 Jun 27 j 03:28	15°♈50'58	
retrograde	-8623 Sep 26 j 01:58	19°♈13'01	
opposition	-8623 Dec 08 j 10:53	17°♈11'14	0°04'41
min. Earth dist.	-8623 Dec 09 j 13:33	17°♈08'21	17.27066 AU
direct	-8622 Feb 23 j 07:47	15°♈04'39	
evening set	-8622 May 30 j 19:29	18°♈36'47	
max. Earth dist.	-8622 Jun 14 j 20:30	19°♈33'35	19.26873 AU
conjunction	-8622 Jun 16 j 02:18	19°♈38'18	0°06'53
minimum elong	-8622 Jun 16 j 02:17	19°♈38'18	0°07'00
behind sun begin	-8622 Jun 15 j 20:06	19°♈37'21	
behind sun end	-8622 Jun 16 j 08:28	19°♈39'15	
morning rise	-8622 Jul 02 j 04:42	20°♈39'11	
retrograde	-8622 Oct 01 j 01:47	24°♈01'19	
opposition	-8622 Dec 13 j 13:59	21°♈59'30	0°10'26
min. Earth dist.	-8622 Dec 14 j 15:44	21°♈56'43	17.26901 AU
direct	-8621 Feb 28 j 13:11	19°♈52'56	
evening set	-8621 Jun 04 j 22:51	23°♈25'00	
max. Earth dist.	-8621 Jun 20 j 01:04	24°♈22'02	19.26996 AU
conjunction	-8621 Jun 21 j 04:25	24°♈26'23	0°11'59
minimum elong	-8621 Jun 21 j 04:25	24°♈26'23	0°12'08
behind sun begin	-8621 Jun 20 j 23:54	24°♈25'41	
behind sun end	-8621 Jun 21 j 08:55	24°♈27'05	
morning rise	-8621 Jul 07 j 05:32	25°♈27'08	
retrograde	-8621 Oct 06 j 02:07	28°♈49'14	
opposition	-8621 Dec 18 j 17:08	26°♈47'25	0°16'05
min. Earth dist.	-8621 Dec 19 j 16:49	26°♈44'52	17.27306 AU
direct	-8620 Mar 04 j 19:22	24°♈40'56	
evening set	-8620 Jun 09 j 01:49	28°♈12'47	
max. Earth dist.	-8620 Jun 24 j 04:13	29°♈09'55	19.27709 AU
conjunction	-8620 Jun 25 j 05:59	29°♈14'00	0°16'59
minimum elong	-8620 Jun 25 j 05:58	29°♈14'00	0°17'12
	-8620 Jul 07 j 08:21	0°♉	
morning rise	-8620 Jul 11 j 05:50	0°♉14'36	
retrograde	-8620 Oct 10 j 01:27	3°♉36'39	
opposition	-8620 Dec 22 j 20:45	1°♉34'50	0°21'38
min. Earth dist.	-8620 Dec 23 j 19:20	1°♉32'24	17.28340 AU
	-8619 Feb 02 j 10:59	30°℞♈	
direct	-8619 Mar 09 j 23:34	29°♈28'27	
	-8619 Apr 13 j 18:21	0°♉	
evening set	-8619 Jun 14 j 04:01	2°♉59'59	
max. Earth dist.	-8619 Jun 29 j 07:35	3°♉57'18	19.29069 AU
conjunction	-8619 Jun 30 j 06:48	4°♉00'59	0°21'52
minimum elong	-8619 Jun 30 j 06:48	4°♉00'59	0°22'07
morning rise	-8619 Jul 16 j 05:27	5°♉01'24	
retrograde	-8619 Oct 15 j 02:38	8°♉23'22	
opposition	-8619 Dec 28 j 00:24	6°♉21'34	0°27'00
min. Earth dist.	-8619 Dec 28 j 19:59	6°♉19'28	17.30017 AU
direct	-8618 Mar 15 j 05:42	4°♉15'22	
evening set	-8618 Jun 19 j 05:39	7°♉46'26	
max. Earth dist.	-8618 Jul 04 j 10:27	8°♉43'57	19.31080 AU
conjunction	-8618 Jul 05 j 07:07	8°♉47'14	0°26'36
minimum elong	-8618 Jul 05 j 07:06	8°♉47'14	0°26'54
morning rise	-8618 Jul 21 j 04:30	9°♉47'28	
retrograde	-8618 Oct 20 j 01:27	13°♉09'17	
opposition	-8617 Jan 02 j 04:07	11°♉07'32	0°32'11
min. Earth dist.	-8617 Jan 02 j 22:24	11°♉05'35	17.32367 AU
direct	-8617 Mar 20 j 08:18	9°♉01'33	
evening set	-8617 Jun 24 j 06:36	12°♉32'05	
conjunction	-8617 Jul 10 j 06:42	13°♉32'39	0°31'08
minimum elong	-8617 Jul 10 j 06:42	13°♉32'39	0°31'28
max. Earth dist.	-8617 Jul 09 j 12:19	13°♉29'44	19.33764 AU
morning rise	-8617 Jul 26 j 03:03	14°♉32'40	
	-8617 Aug 02 j 13:45	15°♉	
retrograde	-8617 Oct 25 j 03:06	17°♉54'19	
opposition	-8616 Jan 07 j 07:42	15°♉52'39	0°37'08
min. Earth dist.	-8616 Jan 07 j 22:36	15°♉51'04	17.35355 AU
	-8616 Jan 28 j 13:03	15°℞♉	
direct	-8616 Mar 24 j 13:53	13°♉46'58	
	-8616 May 17 j 05:04	15°♉	
evening set	-8616 Jun 28 j 06:49	17°♉16'50	
conjunction	-8616 Jul 14 j 05:42	18°♉17'10	0°35'27
minimum elong	-8616 Jul 14 j 05:42	18°♉17'10	0°35'49
max. Earth dist.	-8616 Jul 13 j 14:27	18°♉14'45	19.37058 AU
morning rise	-8616 Jul 30 j 00:50	19°♉16'57	
retrograde	-8616 Oct 29 j 01:21	22°♉38'24	
opposition	-8615 Jan 11 j 11:25	20°♉36'51	0°41'49
min. Earth dist.	-8615 Jan 12 j 00:58	20°♉35'25	17.38942 AU
direct	-8615 Mar 29 j 16:11	18°♉31'30	
evening set	-8615 Jul 03 j 06:25	22°♉00'38	
conjunction	-8615 Jul 19 j 03:56	23°♉00'41	0°39'31
minimum elong	-8615 Jul 19 j 03:56	23°♉00'41	0°39'56
max. Earth dist.	-8615 Jul 18 j 14:41	22°♉58'35	19.40933 AU
morning rise	-8615 Aug 03 j 22:11	24°♉00'14	
retrograde	-8615 Nov 03 j 02:14	27°♉21'26	
opposition	-8614 Jan 16 j 14:54	25°♉20'01	0°46'11
min. Earth dist.	-8614 Jan 17 j 00:59	25°♉18'57	17.43072 AU

Attention, astronomical year style is used: The year -8614 in astronomical counting style is the year 8615 BCE in historical counting style.

direct	-8614 Apr 03 j 21:29	23°♉15'02	
evening set	-8614 Jul 08 j 05:01	26°♉43'18	
conjunction	-8614 Jul 24 j 01:29	27°♉43'05	0°43'18
minimum elong	-8614 Jul 24 j 01:28	27°♉43'05	0°43'43
max. Earth dist.	-8614 Jul 23 j 15:44	27°♉41'33	19.45300 AU
morning rise	-8614 Aug 08 j 18:38	28°♉42'24	
	-8614 Aug 30 j 20:55	0°♊	
retrograde	-8614 Nov 07 j 23:48	2°♊03'19	
opposition	-8613 Jan 21 j 18:19	0°♊02'01	0°50'14
min. Earth dist.	-8613 Jan 22 j 03:01	0°♊01'06	17.47660 AU
	-8613 Jan 22 j 13:27	30°℞♉	
direct	-8613 Apr 08 j 23:41	27°♉57'25	
	-8613 Jun 18 j 18:05	0°♊	
evening set	-8613 Jul 13 j 03:05	1°♊24'46	
conjunction	-8613 Jul 28 j 22:16	2°♊24'14	0°46'46
minimum elong	-8613 Jul 28 j 22:15	2°♊24'14	0°47'15
max. Earth dist.	-8613 Jul 28 j 14:05	2°♊22'57	19.50095 AU
morning rise	-8613 Aug 13 j 14:41	3°♊23'18	
retrograde	-8613 Nov 12 j 23:18	6°♊43'53	
opposition	-8612 Jan 26 j 21:09	4°♊42'42	0°53'56
min. Earth dist.	-8612 Jan 27 j 02:39	4°♊42'08	17.52640 AU
direct	-8612 Apr 13 j 04:05	2°♊38'29	
evening set	-8612 Jul 17 j 00:12	6°♊04'48	
conjunction	-8612 Aug 01 j 18:26	7°♊03'59	0°49'56
minimum elong	-8612 Aug 01 j 18:26	7°♊03'59	0°50'24
max. Earth dist.	-8612 Aug 01 j 13:48	7°♊03'15	19.55240 AU
morning rise	-8612 Aug 17 j 09:53	8°♊02'47	
retrograde	-8612 Nov 16 j 19:58	11°♊22'59	
opposition	-8611 Jan 30 j 23:57	9°♊21'55	0°57'14
min. Earth dist.	-8611 Jan 31 j 03:52	9°♊21'31	17.57939 AU
direct	-8611 Apr 18 j 06:10	7°♊18'06	
evening set	-8611 Jul 21 j 20:27	10°♊43'18	
conjunction	-8611 Aug 06 j 13:31	11°♊42'10	0°52'44
minimum elong	-8611 Aug 06 j 13:31	11°♊42'10	0°53'14
max. Earth dist.	-8611 Aug 06 j 10:19	11°♊41'39	19.60685 AU
morning rise	-8611 Aug 22 j 04:26	12°♊40'42	
retrograde	-8611 Nov 21 j 17:59	16°♊00'29	
opposition	-8610 Feb 05 j 02:10	13°♊59'31	1°00'09
min. Earth dist.	-8610 Feb 05 j 03:03	13°♊59'25	17.63518 AU
direct	-8610 Apr 23 j 08:45	11°♊56'03	
evening set	-8610 Jul 26 j 15:43	15°♊20'04	
conjunction	-8610 Aug 11 j 08:03	16°♊18'38	0°55'10
minimum elong	-8610 Aug 11 j 08:03	16°♊18'38	0°55'42
max. Earth dist.	-8610 Aug 11 j 08:21	16°♊18'41	19.66377 AU
morning rise	-8610 Aug 26 j 22:11	17°♊16'54	
retrograde	-8610 Nov 26 j 13:43	20°♊36'13	
opposition	-8609 Feb 10 j 03:43	18°♊35'19	1°02'39
min. Earth dist.	-8609 Feb 10 j 02:45	18°♊35'25	17.69317 AU
direct	-8609 Apr 28 j 09:57	16°♊32'13	
evening set	-8609 Jul 31 j 10:08	19°♊54'59	
conjunction	-8609 Aug 16 j 01:30	20°♊53'15	0°57'15
minimum elong	-8609 Aug 16 j 01:30	20°♊53'15	0°57'46
max. Earth dist.	-8609 Aug 16 j 03:07	20°♊53'30	19.72286 AU
morning rise	-8609 Aug 31 j 15:17	21°♊51'16	
retrograde	-8609 Dec 01 j 09:42	25°♊10'04	
opposition	-8608 Feb 15 j 04:41	23°♊09'13	1°04'44
min. Earth dist.	-8608 Feb 15 j 01:00	23°♊09'35	17.75333 AU
direct	-8608 May 02 j 10:04	21°♊06'28	
evening set	-8608 Aug 04 j 03:16	24°♊27'56	
conjunction	-8608 Aug 19 j 18:04	25°♊25'53	0°58'56
minimum elong	-8608 Aug 19 j 18:04	25°♊25'53	0°59'30
max. Earth dist.	-8608 Aug 19 j 23:19	25°♊26'42	19.78397 AU
morning rise	-8608 Sep 04 j 07:17	26°♊23'38	
retrograde	-8608 Dec 05 j 04:24	29°♊41'53	
opposition	-8607 Feb 19 j 05:01	27°♊41'05	1°06'23
min. Earth dist.	-8607 Feb 18 j 23:00	27°♊41'42	17.81539 AU
direct	-8607 May 07 j 09:57	25°♊38'41	
evening set	-8607 Aug 08 j 19:37	28°♊58'48	
conjunction	-8607 Aug 24 j 09:37	29°♊56'27	1°00'15
minimum elong	-8607 Aug 24 j 09:37	29°♊56'27	1°00'49
max. Earth dist.	-8607 Aug 24 j 16:28	29°♊57'31	19.84712 AU
	-8607 Aug 25 j 08:29	0°♋	
morning rise	-8607 Sep 08 j 22:41	0°♋53'57	
retrograde	-8607 Dec 09 j 22:50	4°♋11'39	
opposition	-8606 Feb 24 j 04:32	2°♋10'52	1°07'37
min. Earth dist.	-8606 Feb 23 j 20:01	2°♋11'45	17.87974 AU
direct	-8606 May 12 j 07:25	0°♋08'49	
evening set	-8606 Aug 13 j 10:43	3°♋27'34	
conjunction	-8606 Aug 29 j 00:21	4°♋24'55	1°01'12
minimum elong	-8606 Aug 29 j 00:21	4°♋24'55	1°01'46
max. Earth dist.	-8606 Aug 29 j 10:47	4°♋26'32	19.91248 AU
morning rise	-8606 Sep 13 j 13:04	5°♋22'09	
retrograde	-8606 Dec 14 j 16:30	8°♋39'16	
opposition	-8605 Mar 01 j 03:11	6°♋38'33	1°08'27
min. Earth dist.	-8605 Feb 28 j 15:54	6°♋39'42	17.94612 AU
direct	-8605 May 17 j 05:04	4°♋36'52	
evening set	-8605 Aug 18 j 01:06	7°♋54'15	
conjunction	-8605 Sep 02 j 14:07	8°♋51'18	1°01'46
minimum elong	-8605 Sep 02 j 14:07	8°♋51'18	1°02'20
max. Earth dist.	-8605 Sep 03 j 02:13	8°♋53'10	19.97990 AU
morning rise	-8605 Sep 18 j 02:48	9°♋48'18	
retrograde	-8605 Dec 19 j 09:50	13°♋04'50	
min. Earth dist.	-8604 Mar 04 j 11:33	11°♋05'34	18.01472 AU
opposition	-8604 Mar 05 j 01:01	11°♋04'11	1°08'51
direct	-8604 May 21 j 00:27	9°♋02'53	
evening set	-8604 Aug 21 j 14:24	12°♋18'55	
conjunction	-8604 Sep 06 j 03:12	13°♋15'42	1°01'59
minimum elong	-8604 Sep 06 j 03:12	13°♋15'42	1°02'32
max. Earth dist.	-8604 Sep 06 j 18:38	13°♋18'04	20.04947 AU
morning rise	-8604 Sep 21 j 15:44	14°♋12'27	
retrograde	-8604 Dec 23 j 02:47	17°♋28'24	
opposition	-8603 Mar 09 j 22:05	15°♋27'51	1°08'51
min. Earth dist.	-8603 Mar 09 j 05:36	15°♋29'32	18.08510 AU
direct	-8603 May 25 j 20:04	13°♋27'00	
evening set	-8603 Aug 26 j 02:53	16°♋41'40	
conjunction	-8603 Sep 10 j 15:19	17°♋38'10	1°01'50
minimum elong	-8603 Sep 10 j 15:19	17°♋38'10	1°02'23
max. Earth dist.	-8603 Sep 11 j 08:28	17°♋40'47	20.12060 AU
morning rise	-8603 Sep 26 j 04:04	18°♋34'42	
retrograde	-8603 Dec 27 j 19:17	21°♋50'06	
opposition	-8602 Mar 14 j 18:27	19°♋49'39	1°08'28
min. Earth dist.	-8602 Mar 14 j 00:17	19°♋51'31	18.15692 AU
direct	-8602 May 30 j 13:33	17°♋49'14	
evening set	-8602 Aug 30 j 14:32	21°♋02'35	
conjunction	-8602 Sep 15 j 02:58	21°♋58'50	1°01'20
minimum elong	-8602 Sep 15 j 02:58	21°♋58'50	1°01'52
max. Earth dist.	-8602 Sep 15 j 22:57	22°♋01'52	20.19281 AU
morning rise	-8602 Sep 30 j 15:46	22°♋55'09	
retrograde	-8601 Jan 01 j 11:23	26°♋09'57	
opposition	-8601 Mar 19 j 13:41	24°♋09'40	1°07'41
min. Earth dist.	-8601 Mar 18 j 16:45	24°♋11'48	18.22927 AU

Attention, astronomical year style is used: The year -8601 in astronomical counting style is the year 8602 BCE in historical counting style.

direct	-8601 Jun 04 j 07:35	22°♋09'42	
evening set	-8601 Sep 04 j 01:33	25°♋21'45	
conjunction	-8601 Sep 19 j 13:48	26°♋17'44	1°00'29
minimum elong	-8601 Sep 19 j 13:48	26°♋17'44	1°01'01
max. Earth dist.	-8601 Sep 20 j 11:15	26°♋20'59	20.26514 AU
morning rise	-8601 Oct 05 j 02:57	27°♋13'51	
	-8601 Dec 03 j 19:32	0°♌	
retrograde	-8600 Jan 06 j 02:09	0°♌28'06	
	-8600 Feb 09 j 06:59	30°℞♋	
min. Earth dist.	-8600 Mar 22 j 10:31	28°♋30'10	18.30154 AU
opposition	-8600 Mar 23 j 08:29	28°♋27'56	1°06'31
direct	-8600 Jun 07 j 23:34	26°♋28'25	
evening set	-8600 Sep 07 j 11:39	29°♋39'10	
	-8600 Sep 13 j 07:57	0°♌	
conjunction	-8600 Sep 23 j 00:01	0°♌34'56	0°59'18
minimum elong	-8600 Sep 23 j 00:01	0°♌34'56	0°59'48
max. Earth dist.	-8600 Sep 23 j 23:51	0°♌38'32	20.33703 AU
morning rise	-8600 Oct 08 j 13:24	1°♌30'50	
retrograde	-8599 Jan 09 j 17:42	4°♌44'32	
min. Earth dist.	-8599 Mar 27 j 01:51	2°♌46'59	18.37281 AU
opposition	-8599 Mar 28 j 02:23	2°♌44'30	1°05'00
direct	-8599 Jun 12 j 16:09	0°♌45'25	
evening set	-8599 Sep 11 j 21:20	3°♌54'54	
conjunction	-8599 Sep 27 j 09:44	4°♌50'26	0°57'47
minimum elong	-8599 Sep 27 j 09:44	4°♌50'26	0°58'17
max. Earth dist.	-8599 Sep 28 j 10:47	4°♌54'12	20.40747 AU
morning rise	-8599 Oct 12 j 23:38	5°♌46'10	
retrograde	-8598 Jan 14 j 06:25	8°♌59'18	
opposition	-8598 Apr 01 j 19:30	6°♌59'23	1°03'07
min. Earth dist.	-8598 Mar 31 j 18:34	7°♌01'54	18.44246 AU
direct	-8598 Jun 17 j 06:26	5°♌00'41	
evening set	-8598 Sep 16 j 06:17	8°♌08'57	
conjunction	-8598 Oct 01 j 19:00	9°♌04'16	0°55'58
minimum elong	-8598 Oct 01 j 19:00	9°♌04'16	0°56'27
max. Earth dist.	-8598 Oct 02 j 21:42	9°♌08'16	20.47596 AU
morning rise	-8598 Oct 17 j 09:19	9°♌59'50	
retrograde	-8597 Jan 18 j 20:55	13°♌12'24	
min. Earth dist.	-8597 Apr 05 j 08:36	11°♌15'19	18.50959 AU
opposition	-8597 Apr 06 j 11:41	11°♌12'35	1°00'55
direct	-8597 Jun 21 j 21:30	9°♌14'13	
evening set	-8597 Sep 20 j 14:41	12°♌21'18	
conjunction	-8597 Oct 06 j 03:34	13°♌16'25	0°53'52
minimum elong	-8597 Oct 06 j 03:34	13°♌16'25	0°54'18
max. Earth dist.	-8597 Oct 07 j 07:12	13°♌20'32	20.54156 AU
morning rise	-8597 Oct 21 j 18:30	14°♌11'50	
	-8597 Nov 05 j 00:53	15°♌	
retrograde	-8596 Jan 23 j 07:51	17°♌23'51	
min. Earth dist.	-8596 Apr 09 j 00:08	15°♌26'49	18.57375 AU
opposition	-8596 Apr 10 j 03:15	15°♌24'05	0°58'24
	-8596 Apr 20 j 04:03	15°℞♌	
direct	-8596 Jun 25 j 09:47	13°♌26'03	
	-8596 Aug 26 j 05:05	15°♌	
evening set	-8596 Sep 23 j 22:25	16°♌31'57	
conjunction	-8596 Oct 09 j 11:46	17°♌26'53	0°51'29
minimum elong	-8596 Oct 09 j 11:46	17°♌26'53	0°51'55
max. Earth dist.	-8596 Oct 10 j 16:39	17°♌31'10	20.60417 AU
morning rise	-8596 Oct 25 j 03:17	18°♌22'09	
retrograde	-8595 Jan 26 j 21:00	21°♌33'37	
opposition	-8595 Apr 14 j 17:48	19°♌33'52	0°55'36
min. Earth dist.	-8595 Apr 13 j 12:45	19°♌36'48	18.63467 AU
direct	-8595 Jun 29 j 23:20	17°♌36'06	
evening set	-8595 Sep 28 j 05:34	20°♌40'53	
conjunction	-8595 Oct 13 j 19:20	21°♌35'39	0°48'51
minimum elong	-8595 Oct 13 j 19:20	21°♌35'39	0°49'14
max. Earth dist.	-8595 Oct 15 j 01:02	21°♌40'02	20.66338 AU
morning rise	-8595 Oct 29 j 11:39	22°♌30'47	
retrograde	-8594 Jan 31 j 06:38	25°♌41'42	
min. Earth dist.	-8594 Apr 18 j 02:52	23°♌44'52	18.69230 AU
opposition	-8594 Apr 19 j 07:38	23°♌41'58	0°52'31
direct	-8594 Jul 04 j 09:49	21°♌44'26	
evening set	-8594 Oct 02 j 12:08	24°♌48'08	
conjunction	-8594 Oct 18 j 02:30	25°♌42'45	0°45'59
minimum elong	-8594 Oct 18 j 02:30	25°♌42'45	0°46'21
max. Earth dist.	-8594 Oct 19 j 09:11	25°♌47'16	20.71946 AU
morning rise	-8594 Nov 02 j 19:31	26°♌37'46	
retrograde	-8593 Feb 04 j 18:19	29°♌48'09	
opposition	-8593 Apr 23 j 20:17	27°♌48'25	0°49'12
min. Earth dist.	-8593 Apr 22 j 13:45	27°♌51'29	18.74681 AU
direct	-8593 Jul 08 j 21:29	25°♌51'05	
evening set	-8593 Oct 06 j 18:15	28°♌53'46	
conjunction	-8593 Oct 22 j 09:06	29°♌48'16	0°42'54
minimum elong	-8593 Oct 22 j 09:06	29°♌48'16	0°43'13
max. Earth dist.	-8593 Oct 23 j 16:40	29°♌52'53	20.77246 AU
	-8593 Oct 25 j 17:16	0°♍	
morning rise	-8593 Nov 07 j 02:59	0°♍43'10	
retrograde	-8592 Feb 09 j 03:02	3°♍53'03	
min. Earth dist.	-8592 Apr 26 j 02:13	1°♍56'20	18.79854 AU
opposition	-8592 Apr 27 j 08:28	1°♍53'18	0°45'40
	-8592 Jun 30 j 00:23	30°℞♌	
direct	-8592 Jul 12 j 06:20	29°♌56'12	
	-8592 Jul 24 j 08:54	0°♍	
evening set	-8592 Oct 09 j 23:43	2°♍57'55	
conjunction	-8592 Oct 25 j 15:17	3°♍52'18	0°39'37
minimum elong	-8592 Oct 25 j 15:17	3°♍52'18	0°39'55
max. Earth dist.	-8592 Oct 26 j 23:44	3°♍57'02	20.82292 AU
morning rise	-8592 Nov 10 j 10:00	4°♍47'07	
retrograde	-8591 Feb 12 j 13:47	7°♍56'33	
min. Earth dist.	-8591 Apr 30 j 11:45	6°♍00'01	18.84767 AU
opposition	-8591 May 01 j 19:43	5°♍56'49	0°41'55
direct	-8591 Jul 16 j 16:10	3°♍59'54	
evening set	-8591 Oct 14 j 05:02	7°♍00'46	
conjunction	-8591 Oct 29 j 21:15	7°♍55'03	0°36'10
minimum elong	-8591 Oct 29 j 21:16	7°♍55'03	0°36'26
max. Earth dist.	-8591 Oct 31 j 06:26	7°♍59'52	20.87066 AU
morning rise	-8591 Nov 14 j 16:55	8°♍49'48	
retrograde	-8590 Feb 16 j 22:01	11°♍58'48	
min. Earth dist.	-8590 May 04 j 22:49	10°♍02'15	18.89415 AU
opposition	-8590 May 06 j 06:13	9°♍59'06	0°37'59
direct	-8590 Jul 20 j 23:17	8°♍02'24	
evening set	-8590 Oct 18 j 09:58	11°♍02'29	
conjunction	-8590 Nov 03 j 03:00	11°♍56'42	0°32'33
minimum elong	-8590 Nov 03 j 03:01	11°♍56'42	0°32'47
max. Earth dist.	-8590 Nov 04 j 12:37	12°♍01'34	20.91581 AU
morning rise	-8590 Nov 18 j 23:34	12°♍51'24	
retrograde	-8589 Feb 21 j 07:55	16°♍00'01	
min. Earth dist.	-8589 May 09 j 07:15	14°♍03'39	18.93780 AU
opposition	-8589 May 10 j 16:00	14°♍00'22	0°33'53
direct	-8589 Jul 25 j 07:29	12°♍03'53	
evening set	-8589 Oct 22 j 14:35	15°♍03'17	
conjunction	-8589 Nov 07 j 08:22	15°♍57'25	0°28'47
minimum elong	-8589 Nov 07 j 08:22	15°♍57'25	0°29'00

Attention, astronomical year style is used: The year -8589 in astronomical counting style is the year 8590 BCE in historical counting style.

max. Earth dist.	-8589 Nov 08 j 18:28	16°♍02'21	20.95784 AU
morning rise	-8589 Nov 23 j 05:55	16°♍52'05	
retrograde	-8588 Feb 25 j 15:45	20°♍00'23	
min. Earth dist.	-8588 May 12 j 17:28	18°♍04'00	18.97821 AU
opposition	-8588 May 14 j 01:24	18°♍00'48	0°29'38
direct	-8588 Jul 28 j 13:07	16°♍04'33	
evening set	-8588 Oct 25 j 19:09	19°♍03'18	
conjunction	-8588 Nov 10 j 13:50	19°♍57'24	0°24'53
minimum elong	-8588 Nov 10 j 13:50	19°♍57'24	0°25'03
max. Earth dist.	-8588 Nov 12 j 00:01	20°♍02'19	20.99661 AU
morning rise	-8588 Nov 26 j 12:23	20°♍52'02	
retrograde	-8587 Mar 01 j 01:26	24°♍00'03	
min. Earth dist.	-8587 May 17 j 01:15	22°♍03'50	19.01506 AU
opposition	-8587 May 18 j 10:01	22°♍00'33	0°25'15
direct	-8587 Aug 01 j 20:12	20°♍04'28	
evening set	-8587 Oct 29 j 23:42	23°♍02'42	
conjunction	-8587 Nov 14 j 19:14	23°♍56'47	0°20'53
minimum elong	-8587 Nov 14 j 19:14	23°♍56'47	0°21'01
max. Earth dist.	-8587 Nov 16 j 05:27	24°♍01'41	21.03136 AU
morning rise	-8587 Nov 30 j 18:51	24°♍51'25	
retrograde	-8586 Mar 05 j 08:51	27°♍59'10	
min. Earth dist.	-8586 May 21 j 10:55	26°♍02'53	19.04764 AU
opposition	-8586 May 22 j 18:18	25°♍59'44	0°20'45
direct	-8586 Aug 06 j 00:42	24°♍03'51	
evening set	-8586 Nov 03 j 04:14	27°♍01'36	
conjunction	-8586 Nov 19 j 00:43	27°♍55'40	0°16'47
minimum elong	-8586 Nov 19 j 00:43	27°♍55'40	0°16'51
max. Earth dist.	-8586 Nov 20 j 10:25	28°♍00'29	21.06168 AU
morning rise	-8586 Dec 05 j 01:20	28°♍50'18	
	-8586 Dec 27 j 00:08	0°♎	
retrograde	-8585 Mar 09 j 18:23	1°♎57'50	
min. Earth dist.	-8585 May 25 j 18:17	0°♎01'38	19.07544 AU
	-8585 May 26 j 10:36	30°℞♍	
opposition	-8585 May 27 j 01:56	29°♍58'28	0°16'09
direct	-8585 Aug 10 j 07:04	28°♍02'42	
	-8585 Oct 19 j 13:34	0°♎	
evening set	-8585 Nov 07 j 08:53	1°♎00'04	
conjunction	-8585 Nov 23 j 06:16	1°♎54'09	0°12'36
minimum elong	-8585 Nov 23 j 06:16	1°♎54'09	0°12'39
behind sun begin	-8585 Nov 23 j 02:03	1°♎53'33	
behind sun end	-8585 Nov 23 j 10:29	1°♎54'44	
max. Earth dist.	-8585 Nov 24 j 15:30	1°♎58'53	21.08682 AU
morning rise	-8585 Dec 09 j 07:55	2°♎48'48	
retrograde	-8584 Mar 13 j 01:38	5°♎56'08	
min. Earth dist.	-8584 May 29 j 03:28	3°♎59'48	19.09789 AU
opposition	-8584 May 30 j 09:22	3°♎56'49	0°11'30
direct	-8584 Aug 13 j 11:12	2°♎01'08	
evening set	-8584 Nov 10 j 13:28	4°♎58'10	
conjunction	-8584 Nov 26 j 11:55	5°♎52'16	0°08'23
minimum elong	-8584 Nov 26 j 11:55	5°♎52'16	0°08'23
behind sun begin	-8584 Nov 26 j 06:06	5°♎51'27	
behind sun end	-8584 Nov 26 j 17:44	5°♎53'04	
max. Earth dist.	-8584 Nov 27 j 20:06	5°♎56'51	21.10653 AU
morning rise	-8584 Dec 12 j 14:40	6°♎46'58	
retrograde	-8583 Mar 17 j 10:51	9°♎54'07	
min. Earth dist.	-8583 Jun 02 j 10:37	7°♎57'46	19.11460 AU
opposition	-8583 Jun 03 j 16:19	7°♎54'47	0°06'47
direct	-8583 Aug 17 j 16:55	5°♎59'09	
evening set	-8583 Nov 14 j 18:22	8°♎55'54	
conjunction	-8583 Nov 30 j 17:47	9°♎50'03	0°04'08
minimum elong	-8583 Nov 30 j 17:48	9°♎50'03	0°04'06
behind sun begin	-8583 Nov 30 j 11:16	9°♎49'09	
behind sun end	-8583 Dec 01 j 00:20	9°♎50'57	
max. Earth dist.	-8583 Dec 02 j 01:03	9°♎54'29	21.12019 AU
morning rise	-8583 Dec 16 j 21:37	10°♎44'48	
retrograde	-8582 Mar 21 j 17:56	13°♎51'47	
opposition	-8582 Jun 07 j 22:50	11°♎52'25	0°02'04
min. Earth dist.	-8582 Jun 06 j 19:12	11°♎55'12	19.12525 AU
direct	-8582 Aug 21 j 21:11	9°♎56'46	
desc. node	-8582 Nov 15 j 11:53	12°♎41'51	
evening set	-8582 Nov 18 j 23:13	12°♎53'19	
conjunction	-8582 Dec 04 j 23:43	13°♎47'30	-0°00'14
minimum elong	-8582 Dec 04 j 23:44	13°♎47'30	0°00'17
behind sun begin	-8582 Dec 04 j 17:09	13°♎46'36	
behind sun end	-8582 Dec 05 j 06:19	13°♎48'25	
max. Earth dist.	-8582 Dec 06 j 05:35	13°♎51'45	21.12804 AU
morning rise	-8582 Dec 21 j 04:37	14°♎42'19	
retrograde	-8581 Mar 26 j 02:36	17°♎49'10	
min. Earth dist.	-8581 Jun 11 j 01:44	15°♎52'28	19.13018 AU
opposition	-8581 Jun 12 j 05:00	15°♎49'44	-0°02'40
direct	-8581 Aug 26 j 02:05	13°♎54'00	
evening set	-8581 Nov 23 j 04:05	16°♎50'24	
conjunction	-8581 Dec 09 j 05:37	17°♎44'40	-0°04'33
minimum elong	-8581 Dec 09 j 05:36	17°♎44'40	0°04'40
behind sun begin	-8581 Dec 08 j 23:06	17°♎43'46	
behind sun end	-8581 Dec 09 j 12:06	17°♎45'34	
max. Earth dist.	-8581 Dec 10 j 10:33	17°♎48'46	21.13017 AU
morning rise	-8581 Dec 25 j 11:33	18°♎39'33	
retrograde	-8580 Mar 29 j 09:06	21°♎46'18	
min. Earth dist.	-8580 Jun 14 j 09:40	19°♎49'19	19.12967 AU
opposition	-8580 Jun 15 j 10:56	19°♎46'46	-0°07'22
direct	-8580 Aug 29 j 06:29	17°♎50'56	
evening set	-8580 Nov 26 j 09:14	20°♎47'16	
conjunction	-8580 Dec 12 j 11:50	21°♎41'37	-0°08'46
minimum elong	-8580 Dec 12 j 11:50	21°♎41'37	0°08'54
behind sun begin	-8580 Dec 12 j 06:08	21°♎40'50	
behind sun end	-8580 Dec 12 j 17:32	21°♎42'24	
max. Earth dist.	-8580 Dec 13 j 15:21	21°♎45'31	21.12731 AU
morning rise	-8580 Dec 28 j 18:52	22°♎36'36	
retrograde	-8579 Apr 02 j 17:56	25°♎43'16	
opposition	-8579 Jun 19 j 16:20	23°♎43'37	-0°12'02
min. Earth dist.	-8579 Jun 18 j 15:33	23°♎46'08	19.12443 AU
direct	-8579 Sep 02 j 11:02	21°♎47'39	
evening set	-8579 Nov 30 j 14:41	24°♎44'01	
conjunction	-8579 Dec 16 j 18:20	25°♎38'28	-0°12'57
minimum elong	-8579 Dec 16 j 18:20	25°♎38'28	0°13'08
behind sun begin	-8579 Dec 16 j 14:25	25°♎37'56	
behind sun end	-8579 Dec 16 j 22:14	25°♎39'01	
max. Earth dist.	-8579 Dec 17 j 20:49	25°♎42'13	21.11974 AU
morning rise	-8578 Jan 02 j 02:23	26°♎33'33	
retrograde	-8578 Apr 07 j 00:04	29°♎40'11	
opposition	-8578 Jun 23 j 21:39	27°♎40'27	-0°16'38
min. Earth dist.	-8578 Jun 22 j 22:52	27°♎42'46	19.11470 AU
direct	-8578 Sep 06 j 14:50	25°♎44'21	
evening set	-8578 Dec 04 j 20:18	28°♎40'49	
conjunction	-8578 Dec 21 j 00:59	29°♎35'24	-0°17'04
minimum elong	-8578 Dec 21 j 00:59	29°♎35'24	0°17'17
max. Earth dist.	-8578 Dec 22 j 01:54	29°♎38'55	21.10805 AU
	-8578 Dec 28 j 06:54	0°♏	
morning rise	-8577 Jan 06 j 10:02	0°♏30'35	
retrograde	-8577 Apr 11 j 09:15	3°♏37'15	
min. Earth dist.	-8577 Jun 27 j 04:27	1°♏39'42	19.10102 AU
opposition	-8577 Jun 28 j 02:43	1°♏37'26	-0°21'10

Attention, astronomical year style is used: The year -8577 in astronomical counting style is the year 8578 BCE in historical counting style.

	-8577 Aug 14 j 10:43	30°℞♎	
direct	-8577 Sep 10 j 19:35	29°♎41'11	
	-8577 Oct 07 j 20:18	0°♏	
evening set	-8577 Dec 09 j 02:20	2°♏37'51	
conjunction	-8577 Dec 25 j 08:04	3°♏32'34	-0°21'08
minimum elong	-8577 Dec 25 j 08:04	3°♏32'34	0°21'22
max. Earth dist.	-8577 Dec 26 j 07:54	3°♏35'56	21.09239 AU
morning rise	-8576 Jan 10 j 18:04	4°♏27'53	
retrograde	-8576 Apr 14 j 15:38	7°♏34'37	
min. Earth dist.	-8576 Jun 30 j 11:34	5°♏36'48	19.08348 AU
opposition	-8576 Jul 01 j 07:46	5°♏34'45	-0°25'36
direct	-8576 Sep 13 j 22:32	3°♏38'21	
evening set	-8576 Dec 12 j 08:46	6°♏35'19	
conjunction	-8576 Dec 28 j 15:35	7°♏30'11	-0°25'05
minimum elong	-8576 Dec 28 j 15:35	7°♏30'10	0°25'22
max. Earth dist.	-8576 Dec 29 j 13:35	7°♏33'17	21.07311 AU
morning rise	-8575 Jan 14 j 02:38	8°♏25'39	
retrograde	-8575 Apr 19 j 01:17	11°♏32'31	
opposition	-8575 Jul 05 j 12:45	9°♏32'35	-0°29'56
min. Earth dist.	-8575 Jul 04 j 17:24	9°♏34'33	19.06225 AU
direct	-8575 Sep 18 j 03:45	7°♏36'02	
evening set	-8575 Dec 16 j 15:50	10°♏33'23	
conjunction	-8574 Jan 01 j 23:41	11°♏28'26	-0°28'57
minimum elong	-8574 Jan 01 j 23:40	11°♏28'26	0°29'15
max. Earth dist.	-8574 Jan 02 j 20:19	11°♏31'21	21.04987 AU
morning rise	-8574 Jan 18 j 11:35	12°♏24'03	
	-8574 Mar 18 j 06:52	15°♏	
retrograde	-8574 Apr 23 j 08:25	15°♏31'05	
	-8574 May 29 j 19:34	15°℞♏	
opposition	-8574 Jul 09 j 17:44	13°♏31'08	-0°34'08
min. Earth dist.	-8574 Jul 09 j 00:42	13°♏32'53	19.03704 AU
direct	-8574 Sep 22 j 06:43	11°♏34'26	
evening set	-8574 Dec 20 j 23:24	14°♏32'16	
	-8574 Dec 29 j 05:59	15°♏	
conjunction	-8573 Jan 06 j 08:16	15°♏27'29	-0°32'40
minimum elong	-8573 Jan 06 j 08:15	15°♏27'29	0°33'02
max. Earth dist.	-8573 Jan 07 j 02:41	15°♏30'06	21.02282 AU
morning rise	-8573 Jan 22 j 21:06	16°♏23'17	
retrograde	-8573 Apr 27 j 18:25	19°♏30'33	
opposition	-8573 Jul 13 j 22:52	17°♏30'35	-0°38'11
min. Earth dist.	-8573 Jul 13 j 07:01	17°♏32'12	19.00789 AU
direct	-8573 Sep 26 j 12:06	15°♏33'43	
evening set	-8573 Dec 25 j 07:31	18°♏32'06	
conjunction	-8572 Jan 10 j 17:23	19°♏27'31	-0°36'16
minimum elong	-8572 Jan 10 j 17:23	19°♏27'31	0°36'38
max. Earth dist.	-8572 Jan 11 j 10:14	19°♏29'55	20.99146 AU
morning rise	-8572 Jan 27 j 07:02	20°♏23'30	
retrograde	-8572 May 01 j 02:47	23°♏31'02	
opposition	-8572 Jul 17 j 04:14	21°♏31'02	-0°42'04
min. Earth dist.	-8572 Jul 16 j 14:59	21°♏32'24	18.97429 AU
direct	-8572 Sep 29 j 16:08	19°♏33'59	
evening set	-8572 Dec 28 j 16:31	22°♏33'01	
conjunction	-8571 Jan 14 j 03:22	23°♏28'39	-0°39'41
minimum elong	-8571 Jan 14 j 03:21	23°♏28'39	0°40'06
max. Earth dist.	-8571 Jan 14 j 17:24	23°♏30'38	20.95565 AU
morning rise	-8571 Jan 30 j 17:53	24°♏24'49	
retrograde	-8571 May 05 j 13:08	27°♏32'38	
opposition	-8571 Jul 21 j 09:38	25°♏32'37	-0°45'46
min. Earth dist.	-8571 Jul 20 j 22:01	25°♏33'49	18.93606 AU
direct	-8571 Oct 03 j 21:42	23°♏35'19	
evening set	-8570 Jan 02 j 02:19	26°♏35'04	

conjunction	-8570 Jan 18 j 14:07	27°♏30'56	-0°42'55
minimum elong	-8570 Jan 18 j 14:07	27°♏30'56	0°43'21
max. Earth dist.	-8570 Jan 19 j 02:06	27°♏32'38	20.91486 AU
morning rise	-8570 Feb 04 j 05:18	28°♏27'17	
	-8570 Mar 06 j 09:37	0°♐	
retrograde	-8570 May 09 j 22:36	1°♐35'26	
	-8570 Jul 15 j 15:05	30°℞♏	
opposition	-8570 Jul 25 j 15:29	29°♏35'21	-0°49'15
min. Earth dist.	-8570 Jul 25 j 06:38	29°♏36'16	18.89277 AU
direct	-8570 Oct 08 j 03:19	27°♏37'47	
	-8570 Dec 25 j 17:58	0°♐	
evening set	-8569 Jan 06 j 12:36	0°♐38'17	
conjunction	-8569 Jan 23 j 01:17	1°♐34'22	-0°45'58
minimum elong	-8569 Jan 23 j 01:17	1°♐34'22	0°46'25
max. Earth dist.	-8569 Jan 23 j 10:05	1°♐35'38	20.86920 AU
morning rise	-8569 Feb 08 j 17:16	2°♐30'56	
retrograde	-8569 May 14 j 08:56	5°♐39'26	
opposition	-8569 Jul 29 j 21:33	3°♐39'14	-0°52'29
min. Earth dist.	-8569 Jul 29 j 14:25	3°♐39'59	18.84468 AU
direct	-8569 Oct 12 j 09:43	1°♐41'20	
evening set	-8568 Jan 10 j 23:42	4°♐42'41	
conjunction	-8568 Jan 27 j 13:20	5°♐39'00	-0°48'46
minimum elong	-8568 Jan 27 j 13:20	5°♐39'00	0°49'15
max. Earth dist.	-8568 Jan 27 j 20:04	5°♐39'58	20.81872 AU
morning rise	-8568 Feb 13 j 05:53	6°♐35'47	
retrograde	-8568 May 17 j 18:59	9°♐44'37	
opposition	-8568 Aug 02 j 03:51	7°♐44'19	-0°55'29
min. Earth dist.	-8568 Aug 01 j 23:26	7°♐44'46	18.79199 AU
direct	-8568 Oct 15 j 16:35	5°♐46'03	
evening set	-8567 Jan 14 j 11:34	8°♐48'15	
conjunction	-8567 Jan 31 j 02:01	9°♐44'50	-0°51'21
minimum elong	-8567 Jan 31 j 02:01	9°♐44'50	0°51'50
max. Earth dist.	-8567 Jan 31 j 05:24	9°♐45'19	20.76413 AU
morning rise	-8567 Feb 16 j 19:18	10°♐41'50	
retrograde	-8567 May 22 j 05:52	13°♐51'02	
opposition	-8567 Aug 06 j 10:27	11°♐50'35	-0°58'13
min. Earth dist.	-8567 Aug 06 j 07:52	11°♐50'51	18.73549 AU
direct	-8567 Oct 20 j 00:22	9°♐51'54	
evening set	-8566 Jan 19 j 00:06	12°♐55'03	
conjunction	-8566 Feb 04 j 15:25	13°♐51'54	-0°53'40
minimum elong	-8566 Feb 04 j 15:24	13°♐51'54	0°54'12
max. Earth dist.	-8566 Feb 04 j 16:59	13°♐52'07	20.70582 AU
morning rise	-8566 Feb 21 j 09:05	14°♐49'07	
retrograde	-8566 May 26 j 16:13	17°♐58'42	
opposition	-8566 Aug 10 j 17:23	15°♐58'06	-1°00'39
min. Earth dist.	-8566 Aug 10 j 17:17	15°♐58'07	18.67569 AU
direct	-8566 Oct 24 j 07:53	13°♐59'01	
evening set	-8565 Jan 23 j 13:23	17°♐03'10	
conjunction	-8565 Feb 09 j 05:22	18°♐00'16	-0°55'43
minimum elong	-8565 Feb 09 j 05:21	18°♐00'16	0°56'15
max. Earth dist.	-8565 Feb 09 j 03:42	18°♐00'02	20.64482 AU
morning rise	-8565 Feb 25 j 23:39	18°♐57'42	
retrograde	-8565 May 31 j 04:17	22°♐07'43	
opposition	-8565 Aug 15 j 00:43	20°♐06'58	-1°02'47
min. Earth dist.	-8565 Aug 15 j 02:21	20°♐06'47	18.61360 AU
direct	-8565 Oct 28 j 16:54	18°♐07'26	
evening set	-8564 Jan 28 j 03:17	21°♐12'39	
conjunction	-8564 Feb 13 j 20:06	22°♐10'02	-0°57'30
minimum elong	-8564 Feb 13 j 20:06	22°♐10'02	0°58'02
max. Earth dist.	-8564 Feb 13 j 16:57	22°♐09'35	20.58164 AU
morning rise	-8564 Mar 01 j 14:40	23°♐07'42	

Attention, astronomical year style is used: The year -8564 in astronomical counting style is the year 8565 BCE in historical counting style.

retrograde	-8564 Jun 03 j 15:31	26°♐18'09	
opposition	-8564 Aug 18 j 08:35	24°♐17'17	-1°04'37
min. Earth dist.	-8564 Aug 18 j 12:27	24°♐16'52	18.54957 AU
direct	-8564 Nov 01 j 01:21	22°♐17'20	
evening set	-8563 Jan 31 j 18:17	25°♐23'40	
conjunction	-8563 Feb 17 j 11:37	26°♐21'19	-0°58'59
minimum elong	-8563 Feb 17 j 11:37	26°♐21'19	0°59'31
max. Earth dist.	-8563 Feb 17 j 05:10	26°♐20'23	20.51696 AU
morning rise	-8563 Mar 06 j 06:40	27°♐19'14	
	-8563 May 04 j 14:41	0°♑	
retrograde	-8563 Jun 08 j 04:46	0°♑30'10	
	-8563 Jul 13 j 02:05	30°℞♐	
opposition	-8563 Aug 22 j 16:52	28°♐29'10	-1°06'07
min. Earth dist.	-8563 Aug 22 j 22:32	28°♐28'34	18.48435 AU
direct	-8563 Nov 05 j 11:27	26°♐28'47	
evening set	-8562 Feb 05 j 10:00	29°♐36'19	
	-8562 Feb 12 j 07:45	0°♑	
conjunction	-8562 Feb 22 j 04:03	0°♑34'16	-1°00'10
minimum elong	-8562 Feb 22 j 04:03	0°♑34'16	1°00'42
max. Earth dist.	-8562 Feb 21 j 20:16	0°♑33'08	20.45116 AU
morning rise	-8562 Mar 10 j 23:11	1°♑32'24	
retrograde	-8562 Jun 12 j 17:44	4°♑43'51	
opposition	-8562 Aug 27 j 01:55	2°♑42'46	-1°07'16
min. Earth dist.	-8562 Aug 27 j 09:32	2°♑41'58	18.41817 AU
direct	-8562 Nov 09 j 21:13	0°♑42'00	
evening set	-8561 Feb 10 j 02:32	3°♑50'45	
conjunction	-8561 Feb 26 j 20:57	4°♑48'59	-1°01'01
minimum elong	-8561 Feb 26 j 20:57	4°♑48'59	1°01'35
max. Earth dist.	-8561 Feb 26 j 09:53	4°♑47'22	20.38474 AU
morning rise	-8561 Mar 15 j 16:28	5°♑47'23	
retrograde	-8561 Jun 17 j 08:11	8°♑59'23	
opposition	-8561 Aug 31 j 11:34	6°♑58'13	-1°08'04
min. Earth dist.	-8561 Aug 31 j 21:03	6°♑57'13	18.35152 AU
direct	-8561 Nov 14 j 08:16	4°♑57'04	
evening set	-8560 Feb 14 j 20:04	8°♑07'06	
conjunction	-8560 Mar 02 j 15:06	9°♑05'38	-1°01'34
minimum elong	-8560 Mar 02 j 15:06	9°♑05'38	1°02'07
max. Earth dist.	-8560 Mar 02 j 02:49	9°♑03'50	20.31777 AU
morning rise	-8560 Mar 19 j 10:34	10°♑04'16	
retrograde	-8560 Jun 20 j 23:16	13°♑16'50	
opposition	-8560 Sep 03 j 21:49	11°♑15'38	-1°08'30
min. Earth dist.	-8560 Sep 04 j 09:17	11°♑14'25	18.28427 AU
direct	-8560 Nov 17 j 19:40	9°♑14'07	
evening set	-8559 Feb 18 j 14:48	12°♑25'30	
conjunction	-8559 Mar 07 j 10:03	13°♑24'18	-1°01'45
minimum elong	-8559 Mar 07 j 10:03	13°♑24'18	1°02'19
max. Earth dist.	-8559 Mar 06 j 18:11	13°♑21'58	20.25029 AU
morning rise	-8559 Mar 24 j 05:43	14°♑23'12	
retrograde	-8559 Jun 25 j 15:09	17°♑36'21	
opposition	-8559 Sep 08 j 08:57	15°♑35'07	-1°08'33
min. Earth dist.	-8559 Sep 08 j 22:36	15°♑33'39	18.21656 AU
direct	-8559 Nov 22 j 08:09	13°♑33'12	
evening set	-8558 Feb 23 j 10:16	16°♑45'58	
conjunction	-8558 Mar 12 j 05:58	17°♑45'04	-1°01'36
minimum elong	-8558 Mar 12 j 05:58	17°♑45'04	1°02'08
max. Earth dist.	-8558 Mar 11 j 12:50	17°♑42'32	20.18211 AU
morning rise	-8558 Mar 29 j 01:22	18°♑44'11	
retrograde	-8558 Jun 30 j 08:00	21°♑57'56	
opposition	-8558 Sep 12 j 20:53	19°♑56'40	-1°08'12
min. Earth dist.	-8558 Sep 13 j 12:21	19°♑55'01	18.14802 AU
direct	-8558 Nov 26 j 21:33	17°♑54'23	
evening set	-8557 Feb 28 j 06:53	21°♑08'31	
max. Earth dist.	-8557 Mar 16 j 05:49	22°♑04'49	20.11323 AU
conjunction	-8557 Mar 17 j 02:36	22°♑07'54	-1°01'04
minimum elong	-8557 Mar 17 j 02:37	22°♑07'54	1°01'36
morning rise	-8557 Apr 02 j 22:02	23°♑07'16	
retrograde	-8557 Jul 05 j 00:58	26°♑21'37	
opposition	-8557 Sep 17 j 09:36	24°♑20'17	-1°07'26
min. Earth dist.	-8557 Sep 18 j 03:28	24°♑18'22	18.07888 AU
direct	-8557 Dec 01 j 11:54	22°♑17'35	
evening set	-8556 Mar 04 j 04:13	25°♑33'07	
max. Earth dist.	-8556 Mar 20 j 02:10	26°♑29'29	20.04367 AU
conjunction	-8556 Mar 21 j 00:17	26°♑32'47	-1°00'11
minimum elong	-8556 Mar 21 j 00:17	26°♑32'47	1°00'43
morning rise	-8556 Apr 06 j 19:21	27°♑32'22	
	-8556 May 27 j 01:45	0°♒	
retrograde	-8556 Jul 08 j 19:08	0°♒47'18	
	-8556 Aug 21 j 02:15	30°℞♑	
opposition	-8556 Sep 20 j 23:14	28°♑45'54	-1°06'16
min. Earth dist.	-8556 Sep 21 j 18:39	28°♑43'49	18.00899 AU
direct	-8556 Dec 05 j 03:22	26°♑42'48	
evening set	-8555 Mar 09 j 02:41	29°♑59'42	
	-8555 Mar 09 j 04:45	0°♒	
conjunction	-8555 Mar 25 j 22:37	0°♒59'38	-0°58'56
minimum elong	-8555 Mar 25 j 22:37	0°♒59'38	0°59'25
max. Earth dist.	-8555 Mar 24 j 20:59	0°♒55'48	19.97362 AU
morning rise	-8555 Apr 11 j 17:29	1°♒59'27	
retrograde	-8555 Jul 13 j 13:09	5°♒14'57	
opposition	-8555 Sep 25 j 13:38	3°♒13'27	-1°04'42
min. Earth dist.	-8555 Sep 26 j 11:26	3°♒11'06	17.93903 AU
direct	-8555 Dec 09 j 19:50	1°♒09'55	
evening set	-8554 Mar 14 j 01:43	4°♒28'11	
conjunction	-8554 Mar 30 j 21:45	5°♒28'23	-0°57'18
minimum elong	-8554 Mar 30 j 21:46	5°♒28'23	0°57'49
max. Earth dist.	-8554 Mar 29 j 19:06	5°♒24'22	19.90380 AU
morning rise	-8554 Apr 16 j 16:07	6°♒28'24	
retrograde	-8554 Jul 18 j 08:16	9°♒44'27	
opposition	-8554 Sep 30 j 04:52	7°♒42'52	-1°02'43
min. Earth dist.	-8554 Oct 01 j 03:41	7°♒40'23	17.86954 AU
direct	-8554 Dec 14 j 13:17	5°♒38'54	
evening set	-8553 Mar 19 j 01:28	8°♒58'29	
conjunction	-8553 Apr 04 j 21:15	9°♒58'56	-0°55'20
minimum elong	-8553 Apr 04 j 21:16	9°♒58'56	0°55'47
max. Earth dist.	-8553 Apr 03 j 15:48	9°♒54'29	19.83488 AU
morning rise	-8553 Apr 21 j 15:15	10°♒59'09	
retrograde	-8553 Jul 23 j 03:11	14°♒15'47	
opposition	-8553 Oct 04 j 20:56	12°♒14'03	-1°00'21
min. Earth dist.	-8553 Oct 05 j 21:57	12°♒11'21	17.80147 AU
direct	-8553 Dec 19 j 07:20	10°♒09'40	
evening set	-8552 Mar 23 j 01:57	13°♒30'35	
conjunction	-8552 Apr 08 j 21:37	14°♒31'16	-0°52'59
minimum elong	-8552 Apr 08 j 21:38	14°♒31'16	0°53'26
max. Earth dist.	-8552 Apr 07 j 15:26	14°♒26'41	19.76774 AU
	-8552 Apr 16 j 19:20	15°♒	
morning rise	-8552 Apr 25 j 15:01	15°♒31'40	
retrograde	-8552 Jul 26 j 23:17	18°♒48'49	
opposition	-8552 Oct 08 j 13:39	16°♒47'00	-0°57'35
min. Earth dist.	-8552 Oct 09 j 15:11	16°♒44'13	17.73545 AU
	-8552 Nov 26 j 23:53	15°℞♒	
direct	-8552 Dec 23 j 03:12	14°♒42'12	
	-8551 Jan 18 j 03:50	15°♒	
evening set	-8551 Mar 28 j 03:14	18°♒04'25	

Attention, astronomical year style is used: The year -8551 in astronomical counting style is the year 8552 BCE in historical counting style.

conjunction	-8551 Apr 13 j 22:28	19°♒05'19	-0°50'19
minimum elong	-8551 Apr 13 j 22:29	19°♒05'19	0°50'44
max. Earth dist.	-8551 Apr 12 j 14:16	19°♒00'25	19.70305 AU
morning rise	-8551 Apr 30 j 15:13	20°♒05'53	
retrograde	-8551 Jul 31 j 18:46	23°♒23'34	
opposition	-8551 Oct 13 j 07:28	21°♒21'39	-0°54'26
min. Earth dist.	-8551 Oct 14 j 10:55	21°♒18'39	17.67245 AU
direct	-8551 Dec 27 j 22:51	19°♒16'29	
evening set	-8550 Apr 02 j 04:48	22°♒39'56	
conjunction	-8550 Apr 18 j 23:39	23°♒41'02	-0°47'18
minimum elong	-8550 Apr 18 j 23:40	23°♒41'02	0°47'40
max. Earth dist.	-8550 Apr 17 j 15:04	23°♒36'03	19.64179 AU
morning rise	-8550 May 05 j 15:40	24°♒41'45	
retrograde	-8550 Aug 05 j 15:55	27°♒59'59	
opposition	-8550 Oct 18 j 02:00	25°♒57'58	-0°50'55
min. Earth dist.	-8550 Oct 19 j 05:17	25°♒55'00	17.61310 AU
direct	-8549 Jan 01 j 21:04	23°♒52'29	
evening set	-8549 Apr 07 j 07:07	27°♒17'09	
max. Earth dist.	-8549 Apr 22 j 15:48	28°♒13'15	19.58447 AU
conjunction	-8549 Apr 24 j 01:25	28°♒18'25	-0°43'58
minimum elong	-8549 Apr 24 j 01:25	28°♒18'25	0°44'20
morning rise	-8549 May 10 j 16:34	29°♒19'16	
	-8549 May 22 j 06:39	0°♓	
retrograde	-8549 Aug 10 j 12:12	2°♓38'00	
opposition	-8549 Oct 22 j 21:24	0°♓35'58	-0°47'04
min. Earth dist.	-8549 Oct 24 j 02:18	0°♓32'49	17.55812 AU
	-8549 Nov 05 j 19:20	30°R♒	
direct	-8548 Jan 06 j 18:20	28°♒30'11	
	-8548 Mar 06 j 20:22	0°♓	
evening set	-8548 Apr 11 j 09:59	1°♓56'01	
max. Earth dist.	-8548 Apr 26 j 17:32	2°♓52'11	19.53187 AU
conjunction	-8548 Apr 28 j 03:39	2°♓57'27	-0°40'20
minimum elong	-8548 Apr 28 j 03:40	2°♓57'27	0°40'39
morning rise	-8548 May 14 j 18:01	3°♓58'25	
retrograde	-8548 Aug 14 j 10:51	7°♓17'39	
opposition	-8548 Oct 26 j 17:40	5°♓15'36	-0°42'52
min. Earth dist.	-8548 Oct 27 j 22:01	5°♓12'30	17.50785 AU
direct	-8547 Jan 10 j 18:39	3°♓09'36	
evening set	-8547 Apr 16 j 13:18	6°♓36'32	
max. Earth dist.	-8547 May 01 j 20:03	7°♓32'48	19.48400 AU
conjunction	-8547 May 03 j 06:18	7°♓38'06	-0°36'25
minimum elong	-8547 May 03 j 06:18	7°♓38'06	0°36'42
morning rise	-8547 May 19 j 19:33	8°♓39'11	
retrograde	-8547 Aug 19 j 08:21	11°♓58'53	
opposition	-8547 Oct 31 j 14:57	9°♓56'52	-0°38'21
min. Earth dist.	-8547 Nov 01 j 20:38	9°♓53'38	17.46250 AU
direct	-8546 Jan 15 j 17:18	7°♓50'42	
evening set	-8546 Apr 21 j 17:07	11°♓18'40	
max. Earth dist.	-8546 May 06 j 22:25	12°♓14'56	19.44123 AU
conjunction	-8546 May 08 j 09:12	12°♓20'20	-0°32'14
minimum elong	-8546 May 08 j 09:12	12°♓20'20	0°32'28
morning rise	-8546 May 24 j 21:35	13°♓21'30	
retrograde	-8546 Aug 24 j 08:44	16°♓41'40	
opposition	-8546 Nov 05 j 12:55	14°♓39'41	-0°33'33
min. Earth dist.	-8546 Nov 06 j 17:52	14°♓36'32	17.42215 AU
direct	-8545 Jan 20 j 18:54	12°♓33'24	
evening set	-8545 Apr 26 j 21:09	16°♓02'17	
max. Earth dist.	-8545 May 12 j 02:19	16°♓58'44	19.40319 AU
conjunction	-8545 May 13 j 12:28	17°♓04'04	-0°27'48
minimum elong	-8545 May 13 j 12:28	17°♓04'04	0°27'58
morning rise	-8545 May 29 j 23:38	18°♓05'17	
retrograde	-8545 Aug 29 j 07:49	21°♓25'51	
opposition	-8545 Nov 10 j 11:55	19°♓23'57	-0°28'29
min. Earth dist.	-8545 Nov 11 j 18:00	19°♓20'40	17.38643 AU
direct	-8544 Jan 25 j 19:00	17°♓17'32	
evening set	-8544 May 01 j 01:44	20°♓47'17	
max. Earth dist.	-8544 May 16 j 04:59	21°♓43'38	19.36978 AU
conjunction	-8544 May 17 j 15:55	21°♓49'06	-0°23'09
minimum elong	-8544 May 17 j 15:55	21°♓49'06	0°23'18
morning rise	-8544 Jun 03 j 02:04	22°♓50'21	
retrograde	-8544 Sep 02 j 08:58	26°♓11'18	
opposition	-8544 Nov 14 j 11:33	24°♓09'26	-0°23'12
min. Earth dist.	-8544 Nov 15 j 16:53	24°♓06'14	17.35523 AU
direct	-8543 Jan 29 j 21:30	22°♓02'56	
evening set	-8543 May 06 j 06:25	25°♓33'24	
max. Earth dist.	-8543 May 21 j 09:57	26°♓29'58	19.34072 AU
conjunction	-8543 May 22 j 19:40	26°♓35'15	-0°18'20
minimum elong	-8543 May 22 j 19:40	26°♓35'15	0°18'25
morning rise	-8543 Jun 08 j 04:26	27°♓36'30	
	-8543 Jul 23 j 12:50	0°♈	
retrograde	-8543 Sep 07 j 09:10	0°♈57'46	
	-8543 Oct 24 j 16:36	30°R♓	
opposition	-8543 Nov 19 j 12:14	28°♓55'56	-0°17'44
min. Earth dist.	-8543 Nov 20 j 18:08	28°♓52'40	17.32837 AU
direct	-8542 Feb 03 j 23:24	26°♓49'22	
	-8542 May 05 j 20:40	0°♈	
evening set	-8542 May 11 j 11:07	0°♈20'24	
conjunction	-8542 May 27 j 23:03	1°♈22'15	-0°13'22
minimum elong	-8542 May 27 j 23:03	1°♈22'15	0°13'25
behind sun begin	-8542 May 27 j 19:19	1°♈21'40	
behind sun end	-8542 May 28 j 02:48	1°♈22'49	
max. Earth dist.	-8542 May 26 j 12:44	1°♈16'50	19.31613 AU
morning rise	-8542 Jun 13 j 06:46	2°♈23'28	
retrograde	-8542 Sep 12 j 10:10	5°♈45'01	
opposition	-8542 Nov 24 j 13:22	3°♈43'10	-0°12'08
min. Earth dist.	-8542 Nov 25 j 18:21	3°♈40'01	17.30603 AU
direct	-8541 Feb 09 j 02:53	1°♈36'33	
evening set	-8541 May 16 j 15:44	5°♈08'02	
max. Earth dist.	-8541 May 31 j 18:08	6°♈04'43	19.29605 AU
conjunction	-8541 Jun 02 j 02:41	6°♈09'52	-0°08'19
minimum elong	-8541 Jun 02 j 02:41	6°♈09'52	0°08'20
behind sun begin	-8541 Jun 01 j 20:47	6°♈08'57	
behind sun end	-8541 Jun 02 j 08:35	6°♈10'46	
morning rise	-8541 Jun 18 j 08:59	7°♈11'02	
retrograde	-8541 Sep 17 j 10:30	10°♈32'46	
opposition	-8541 Nov 29 j 15:02	8°♈30'56	-0°06'26
min. Earth dist.	-8541 Nov 30 j 19:58	8°♈27'47	17.28822 AU
direct	-8540 Feb 14 j 06:56	6°♈24'15	
evening set	-8540 May 20 j 20:25	9°♈56'05	
max. Earth dist.	-8540 Jun 04 j 21:10	10°♈52'38	19.28074 AU
conjunction	-8540 Jun 06 j 05:58	10°♈57'49	-0°03'12
minimum elong	-8540 Jun 06 j 05:57	10°♈57'49	0°03'09
behind sun begin	-8540 Jun 05 j 23:17	10°♈56'48	
behind sun end	-8540 Jun 06 j 12:37	10°♈58'51	
morning rise	-8540 Jun 22 j 11:07	11°♈58'56	
retrograde	-8540 Sep 21 j 10:38	15°♈20'49	
opposition	-8540 Dec 03 j 17:16	13°♈18'57	-0°00'41
min. Earth dist.	-8540 Dec 04 j 21:10	13°♈15'55	17.27547 AU
asc. node	-8539 Jan 15 j 06:30	11°♈41'54	
direct	-8539 Feb 18 j 11:23	11°♈12'15	
evening set	-8539 May 26 j 00:31	14°♈44'15	
max. Earth dist.	-8539 Jun 10 j 02:31	15°♈41'06	19.27061 AU

Attention, astronomical year style is used: The year -8539 in astronomical counting style is the year 8540 BCE in historical counting style.

conjunction	-8539 Jun 11 j 08:54	15°♈45'55	0°02'05
minimum elong	-8539 Jun 11 j 08:54	15°♈45'55	0°02'10
behind sun begin	-8539 Jun 11 j 02:13	15°♈44'53	
behind sun end	-8539 Jun 11 j 15:35	15°♈46'56	
morning rise	-8539 Jun 27 j 12:39	16°♈46'55	
retrograde	-8539 Sep 26 j 11:13	20°♈08'54	
opposition	-8539 Dec 08 j 20:00	18°♈07'01	0°05'04
min. Earth dist.	-8539 Dec 09 j 22:50	18°♈04'06	17.26796 AU
direct	-8538 Feb 23 j 17:13	16°♈00'20	
evening set	-8538 May 31 j 04:27	19°♈32'22	
max. Earth dist.	-8538 Jun 15 j 05:36	20°♈29'11	19.26601 AU
conjunction	-8538 Jun 16 j 11:23	20°♈33'54	0°07'13
minimum elong	-8538 Jun 16 j 11:22	20°♈33'54	0°07'21
behind sun begin	-8538 Jun 16 j 05:16	20°♈32'57	
behind sun end	-8538 Jun 16 j 17:29	20°♈34'51	
morning rise	-8538 Jul 02 j 13:56	21°♈34'48	
retrograde	-8538 Oct 01 j 10:41	24°♈56'50	
opposition	-8538 Dec 13 j 22:54	22°♈54'55	0°10'47
min. Earth dist.	-8538 Dec 15 j 00:36	22°♈52'08	17.26639 AU
direct	-8537 Feb 28 j 21:52	20°♈48'15	
evening set	-8537 Jun 05 j 07:44	24°♈20'14	
max. Earth dist.	-8537 Jun 20 j 10:20	25°♈17'19	19.26747 AU
conjunction	-8537 Jun 21 j 13:27	25°♈21'37	0°12'16
minimum elong	-8537 Jun 21 j 13:27	25°♈21'37	0°12'27
behind sun begin	-8537 Jun 21 j 09:06	25°♈20'57	
behind sun end	-8537 Jun 21 j 17:47	25°♈22'18	
morning rise	-8537 Jul 07 j 14:41	26°♈22'23	
retrograde	-8537 Oct 06 j 11:22	29°♈44'25	
opposition	-8537 Dec 19 j 02:09	27°♈42'30	0°16'24
min. Earth dist.	-8537 Dec 20 j 01:51	27°♈39'56	17.27082 AU
direct	-8536 Mar 05 j 04:16	25°♈35'55	
evening set	-8536 Jun 09 j 10:40	29°♈07'43	
	-8536 Jun 23 j 06:43	0°♉	
conjunction	-8536 Jun 25 j 14:55	0°♉08'56	0°17'15
minimum elong	-8536 Jun 25 j 14:54	0°♉08'56	0°17'28
max. Earth dist.	-8536 Jun 24 j 13:15	0°♉04'51	19.27513 AU
morning rise	-8536 Jul 11 j 14:53	1°♉09'32	
retrograde	-8536 Oct 10 j 10:31	4°♉31'32	
opposition	-8536 Dec 23 j 05:40	2°♉29'38	0°21'55
min. Earth dist.	-8536 Dec 24 j 04:02	2°♉27'14	17.28183 AU
direct	-8535 Mar 10 j 08:31	0°♉23'12	
evening set	-8535 Jun 14 j 12:59	3°♉54'43	
conjunction	-8535 Jun 30 j 15:54	4°♉55'44	0°22'06
minimum elong	-8535 Jun 30 j 15:54	4°♉55'44	0°22'22
max. Earth dist.	-8535 Jun 29 j 16:58	4°♉52'05	19.28952 AU
morning rise	-8535 Jul 16 j 14:38	5°♉56'09	
retrograde	-8535 Oct 15 j 11:29	9°♉18'06	
opposition	-8535 Dec 28 j 09:18	7°♉16'16	0°27'15
min. Earth dist.	-8535 Dec 29 j 04:48	7°♉14'11	17.29945 AU
direct	-8534 Mar 15 j 14:23	5°♉10'03	
evening set	-8534 Jun 19 j 14:36	8°♉41'09	
conjunction	-8534 Jul 05 j 16:11	9°♉41'58	0°26'48
minimum elong	-8534 Jul 05 j 16:11	9°♉41'58	0°27'06
max. Earth dist.	-8534 Jul 04 j 19:31	9°♉38'41	19.31047 AU
morning rise	-8534 Jul 21 j 13:43	10°♉42'12	
retrograde	-8534 Oct 20 j 10:42	14°♉04'03	
opposition	-8533 Jan 02 j 13:04	12°♉02'19	0°32'24
min. Earth dist.	-8533 Jan 03 j 07:12	12°♉00'23	17.32365 AU
direct	-8533 Mar 20 j 17:46	9°♉56'22	
evening set	-8533 Jun 24 j 15:43	13°♉26'58	
conjunction	-8533 Jul 10 j 15:57	14°♉27'33	0°31'19
minimum elong	-8533 Jul 10 j 15:57	14°♉27'33	0°31'39
max. Earth dist.	-8533 Jul 09 j 21:42	14°♉24'39	19.33785 AU
	-8533 Jul 19 j 04:18	15°♉	
morning rise	-8533 Jul 26 j 12:23	15°♉27'35	
retrograde	-8533 Oct 25 j 11:43	18°♉49'17	
opposition	-8532 Jan 07 j 16:37	16°♉47'42	0°37'19
min. Earth dist.	-8532 Jan 08 j 07:37	16°♉46'06	17.35386 AU
	-8532 Feb 27 j 07:54	15°℞♉	
direct	-8532 Mar 24 j 22:39	14°♉42'04	
	-8532 Apr 20 j 01:58	15°♉	
evening set	-8532 Jun 28 j 16:10	18°♉12'04	
conjunction	-8532 Jul 14 j 15:08	19°♉12'25	0°35'36
minimum elong	-8532 Jul 14 j 15:08	19°♉12'25	0°35'59
max. Earth dist.	-8532 Jul 13 j 23:44	19°♉09'58	19.37092 AU
morning rise	-8532 Jul 30 j 10:23	20°♉12'14	
retrograde	-8532 Oct 29 j 10:59	23°♉33'45	
opposition	-8531 Jan 11 j 20:31	21°♉32'18	0°41'58
min. Earth dist.	-8531 Jan 12 j 10:14	21°♉30'51	17.38964 AU
direct	-8531 Mar 30 j 01:23	19°♉27'02	
evening set	-8531 Jul 03 j 15:49	22°♉56'18	
conjunction	-8531 Jul 19 j 13:27	23°♉56'23	0°39'38
minimum elong	-8531 Jul 19 j 13:27	23°♉56'23	0°40'02
max. Earth dist.	-8531 Jul 19 j 00:08	23°♉54'16	19.40927 AU
morning rise	-8531 Aug 04 j 07:46	24°♉55'59	
retrograde	-8531 Nov 03 j 11:56	28°♉17'17	
opposition	-8530 Jan 17 j 00:07	26°♉15'58	0°46'19
min. Earth dist.	-8530 Jan 17 j 10:30	26°♉14'53	17.43026 AU
direct	-8530 Apr 04 j 05:45	24°♉11'04	
evening set	-8530 Jul 08 j 14:46	27°♉39'31	
conjunction	-8530 Jul 24 j 11:18	28°♉39'19	0°43'23
minimum elong	-8530 Jul 24 j 11:18	28°♉39'19	0°43'50
max. Earth dist.	-8530 Jul 24 j 01:08	28°♉37'43	19.45201 AU
morning rise	-8530 Aug 09 j 04:32	29°♉38'40	
	-8530 Aug 15 j 00:01	0°♊	
retrograde	-8530 Nov 08 j 10:05	2°♊59'41	
opposition	-8529 Jan 22 j 03:31	0°♊58'31	0°50'20
min. Earth dist.	-8529 Jan 22 j 12:41	0°♊57'32	17.47505 AU
	-8529 Feb 15 j 04:53	30°℞♉	
direct	-8529 Apr 09 j 08:36	28°♉53'59	
	-8529 May 30 j 07:57	0°♊	
evening set	-8529 Jul 13 j 13:02	2°♊21'30	
conjunction	-8529 Jul 29 j 08:18	3°♊21'01	0°46'50
minimum elong	-8529 Jul 29 j 08:18	3°♊21'01	0°47'17
max. Earth dist.	-8529 Jul 28 j 23:41	3°♊19'39	19.49870 AU
morning rise	-8529 Aug 14 j 00:47	4°♊20'07	
retrograde	-8529 Nov 13 j 09:48	7°♊40'49	
opposition	-8528 Jan 27 j 06:36	5°♊39'43	0°53'59
min. Earth dist.	-8528 Jan 27 j 12:29	5°♊39'06	17.52342 AU
direct	-8528 Apr 13 j 12:30	3°♊35'33	
evening set	-8528 Jul 17 j 10:15	7°♊02'04	
conjunction	-8528 Aug 02 j 04:34	8°♊01'17	0°49'57
minimum elong	-8528 Aug 02 j 04:33	8°♊01'17	0°50'27
max. Earth dist.	-8528 Aug 01 j 23:20	8°♊00'27	19.54859 AU
morning rise	-8528 Aug 17 j 20:03	9°♊00'07	
retrograde	-8528 Nov 17 j 06:41	12°♊20'25	
opposition	-8527 Jan 31 j 09:32	10°♊19'26	0°57'15
min. Earth dist.	-8527 Jan 31 j 13:56	10°♊18'58	17.57480 AU
direct	-8527 Apr 18 j 15:26	8°♊15'38	
evening set	-8527 Jul 22 j 06:44	11°♊41'00	
conjunction	-8527 Aug 06 j 23:54	12°♊39'55	0°52'43
minimum elong	-8527 Aug 06 j 23:54	12°♊39'55	0°53'13

Attention, astronomical year style is used: The year -8527 in astronomical counting style is the year 8528 BCE in historical counting style.

max. Earth dist.	-8527 Aug 06 j 20:06	12°♊39'19	19.60145 AU
morning rise	-8527 Aug 22 j 14:51	13°♊38'29	
retrograde	-8527 Nov 22 j 04:40	16°♊58'22	
opposition	-8526 Feb 05 j 11:43	14°♊57'25	1°00'07
min. Earth dist.	-8526 Feb 05 j 12:57	14°♊57'18	17.62904 AU
direct	-8526 Apr 23 j 18:12	12°♊53'58	
evening set	-8526 Jul 27 j 02:01	16°♊18'09	
conjunction	-8526 Aug 11 j 18:28	17°♊16'45	0°55'07
minimum elong	-8526 Aug 11 j 18:28	17°♊16'45	0°55'39
max. Earth dist.	-8526 Aug 11 j 18:12	17°♊16'43	19.65693 AU
morning rise	-8526 Aug 27 j 08:40	18°♊15'04	
retrograde	-8526 Nov 26 j 23:53	21°♊34'27	
opposition	-8525 Feb 10 j 13:25	19°♊33'33	1°02'34
min. Earth dist.	-8525 Feb 10 j 12:55	19°♊33'36	17.68572 AU
direct	-8525 Apr 28 j 19:45	17°♊30'26	
evening set	-8525 Jul 31 j 20:27	20°♊53'20	
conjunction	-8525 Aug 16 j 11:54	21°♊51'38	0°57'09
minimum elong	-8525 Aug 16 j 11:53	21°♊51'38	0°57'42
max. Earth dist.	-8525 Aug 16 j 13:05	21°♊51'49	19.71490 AU
morning rise	-8525 Sep 01 j 01:44	22°♊49'41	
retrograde	-8525 Dec 01 j 20:16	26°♊08'33	
opposition	-8524 Feb 15 j 14:22	24°♊07'40	1°04'37
min. Earth dist.	-8524 Feb 15 j 10:53	24°♊08'02	17.74500 AU
direct	-8524 May 02 j 20:10	22°♊04'51	
evening set	-8524 Aug 04 j 13:42	25°♊26'28	
conjunction	-8524 Aug 20 j 04:35	26°♊24'27	0°58'49
minimum elong	-8524 Aug 20 j 04:35	26°♊24'27	0°59'21
max. Earth dist.	-8524 Aug 20 j 09:34	26°♊25'13	19.77545 AU
morning rise	-8524 Sep 04 j 17:51	27°♊22'14	
	-8524 Oct 27 j 11:27	0°♋	
retrograde	-8524 Dec 05 j 14:22	0°♋40'32	
	-8523 Jan 15 j 07:17	30°℞♊	
opposition	-8523 Feb 19 j 14:47	28°♊39'41	1°06'14
min. Earth dist.	-8523 Feb 19 j 09:01	28°♊40'17	17.80683 AU
direct	-8523 May 07 j 19:47	26°♊37'13	
evening set	-8523 Aug 09 j 06:00	29°♊57'27	
	-8523 Aug 09 j 22:47	0°♋	
conjunction	-8523 Aug 24 j 20:05	0°♋55'08	1°00'06
minimum elong	-8523 Aug 24 j 20:05	0°♋55'08	1°00'39
max. Earth dist.	-8523 Aug 25 j 02:44	0°♋56'10	19.83864 AU
morning rise	-8523 Sep 09 j 09:12	1°♋52'40	
retrograde	-8523 Dec 10 j 09:17	5°♋10'25	
opposition	-8522 Feb 24 j 14:22	3°♋09'35	1°07'26
min. Earth dist.	-8522 Feb 24 j 05:47	3°♋10'28	17.87147 AU
direct	-8522 May 12 j 17:26	1°♋07'27	
evening set	-8522 Aug 13 j 21:18	4°♋26'20	
conjunction	-8522 Aug 29 j 10:59	5°♋23'43	1°01'00
minimum elong	-8522 Aug 29 j 10:59	5°♋23'43	1°01'33
max. Earth dist.	-8522 Aug 29 j 21:20	5°♋25'19	19.90452 AU
morning rise	-8522 Sep 13 j 23:42	6°♋20'59	
retrograde	-8522 Dec 15 j 02:49	9°♋38'08	
opposition	-8521 Mar 01 j 13:00	7°♋37'23	1°08'13
min. Earth dist.	-8521 Mar 01 j 01:49	7°♋38'32	17.93857 AU
direct	-8521 May 17 j 15:22	5°♋35'39	
evening set	-8521 Aug 18 j 11:49	8°♋53'10	
conjunction	-8521 Sep 03 j 00:53	9°♋50'15	1°01'33
minimum elong	-8521 Sep 03 j 00:53	9°♋50'15	1°02'06
max. Earth dist.	-8521 Sep 03 j 12:52	9°♋52'06	19.97285 AU
morning rise	-8521 Sep 18 j 13:36	10°♋47'17	
retrograde	-8521 Dec 19 j 20:21	14°♋03'51	
opposition	-8520 Mar 05 j 11:04	12°♋03'11	1°08'35
min. Earth dist.	-8520 Mar 04 j 21:28	12°♋04'35	18.00811 AU
direct	-8520 May 21 j 10:22	10°♋01'52	
evening set	-8520 Aug 22 j 01:08	13°♋18'02	
conjunction	-8520 Sep 06 j 14:00	14°♋14'50	1°01'43
minimum elong	-8520 Sep 06 j 14:00	14°♋14'50	1°02'17
max. Earth dist.	-8520 Sep 07 j 05:31	14°♋17'13	20.04332 AU
morning rise	-8520 Sep 22 j 02:33	15°♋11'37	
retrograde	-8520 Dec 23 j 13:31	18°♋27'37	
opposition	-8519 Mar 10 j 08:20	16°♋27'05	1°08'33
min. Earth dist.	-8519 Mar 09 j 16:00	16°♋28'45	18.07931 AU
direct	-8519 May 26 j 06:56	14°♋26'13	
evening set	-8519 Aug 26 j 13:53	17°♋41'01	
conjunction	-8519 Sep 11 j 02:22	18°♋37'33	1°01'32
minimum elong	-8519 Sep 11 j 02:22	18°♋37'33	1°02'05
max. Earth dist.	-8519 Sep 11 j 19:25	18°♋40'09	20.11516 AU
morning rise	-8519 Sep 26 j 15:08	19°♋34'06	
retrograde	-8519 Dec 28 j 05:45	22°♋49'33	
min. Earth dist.	-8518 Mar 14 j 10:40	20°♋50'59	18.15171 AU
opposition	-8518 Mar 15 j 04:44	20°♋49'08	1°08'07
direct	-8518 May 30 j 23:44	18°♋48'43	
evening set	-8518 Aug 31 j 01:39	22°♋02'12	
conjunction	-8518 Sep 15 j 14:08	22°♋58'28	1°01'00
minimum elong	-8518 Sep 15 j 14:08	22°♋58'28	1°01'33
max. Earth dist.	-8518 Sep 16 j 10:08	23°♋01'31	20.18774 AU
morning rise	-8518 Oct 01 j 02:57	23°♋54'48	
retrograde	-8517 Jan 01 j 22:03	27°♋09'41	
min. Earth dist.	-8517 Mar 19 j 03:42	25°♋11'31	18.22423 AU
opposition	-8517 Mar 20 j 00:19	25°♋09'25	1°07'18
direct	-8517 Jun 04 j 18:37	23°♋09'27	
evening set	-8517 Sep 04 j 12:48	26°♋21'37	
conjunction	-8517 Sep 20 j 01:02	27°♋17'38	1°00'07
minimum elong	-8517 Sep 20 j 01:02	27°♋17'38	1°00'38
max. Earth dist.	-8517 Sep 20 j 22:19	27°♋20'52	20.26004 AU
morning rise	-8517 Oct 05 j 14:11	28°♋13'46	
	-8517 Nov 07 j 13:45	0°♌	
retrograde	-8516 Jan 06 j 13:04	1°♌28'06	
	-8516 Mar 10 j 11:32	30°℞♋	
opposition	-8516 Mar 23 j 19:16	29°♋27'57	1°06'06
min. Earth dist.	-8516 Mar 22 j 21:32	29°♋30'10	18.29629 AU
direct	-8516 Jun 08 j 09:49	27°♋28'25	
	-8516 Aug 27 j 13:42	0°♌	
evening set	-8516 Sep 07 j 23:11	0°♌39'19	
conjunction	-8516 Sep 23 j 11:34	1°♌35'05	0°58'54
minimum elong	-8516 Sep 23 j 11:34	1°♌35'05	0°59'24
max. Earth dist.	-8516 Sep 24 j 11:14	1°♌38'40	20.33152 AU
morning rise	-8516 Oct 09 j 00:55	2°♌31'01	
retrograde	-8515 Jan 10 j 04:12	5°♌44'47	
opposition	-8515 Mar 28 j 13:16	3°♌44'46	1°04'32
min. Earth dist.	-8515 Mar 27 j 13:10	3°♌47'13	18.36701 AU
direct	-8515 Jun 13 j 03:12	1°♌45'39	
evening set	-8515 Sep 12 j 08:57	4°♌55'17	
conjunction	-8515 Sep 27 j 21:21	5°♌50'50	0°57'21
minimum elong	-8515 Sep 27 j 21:21	5°♌50'50	0°57'50
max. Earth dist.	-8515 Sep 28 j 21:57	5°♌54'32	20.40126 AU
morning rise	-8515 Oct 13 j 11:14	6°♌46'35	
retrograde	-8514 Jan 14 j 18:14	9°♌59'48	
min. Earth dist.	-8514 Apr 01 j 05:57	8°♌02'21	18.43576 AU
opposition	-8514 Apr 02 j 06:34	7°♌59'52	1°02'37
direct	-8514 Jun 17 j 16:50	6°♌01'07	
evening set	-8514 Sep 16 j 18:01	9°♌09'31	

Attention, astronomical year style is used: The year -8514 in astronomical counting style is the year 8515 BCE in historical counting style.

conjunction	-8514 Oct 02 j 06:43	10°♌04'51	0°55'30
minimum elong	-8514 Oct 02 j 06:44	10°♌04'51	0°55'58
max. Earth dist.	-8514 Oct 03 j 09:05	10°♌08'48	20.46874 AU
morning rise	-8514 Oct 17 j 20:59	11°♌00'26	
retrograde	-8513 Jan 19 j 07:40	14°♌13'04	
opposition	-8513 Apr 06 j 22:43	12°♌13'14	1°00'23
min. Earth dist.	-8513 Apr 05 j 20:01	12°♌15'55	18.50185 AU
direct	-8513 Jun 22 j 08:35	10°♌14'49	
evening set	-8513 Sep 21 j 02:30	13°♌22'00	
conjunction	-8513 Oct 06 j 15:22	14°♌17'09	0°53'22
minimum elong	-8513 Oct 06 j 15:23	14°♌17'09	0°53'49
max. Earth dist.	-8513 Oct 07 j 18:28	14°♌21'11	20.53340 AU
	-8513 Oct 18 j 16:17	15°♌	
morning rise	-8513 Oct 22 j 06:18	15°♌12'34	
retrograde	-8512 Jan 23 j 20:01	18°♌24'39	
min. Earth dist.	-8512 Apr 09 j 11:29	16°♌27'32	18.56518 AU
opposition	-8512 Apr 10 j 14:21	16°♌24'50	0°57'51
	-8512 May 19 j 16:32	15°℞♌	
direct	-8512 Jun 25 j 20:58	14°♌26'44	
	-8512 Jul 31 j 21:26	15°♌	
evening set	-8512 Sep 24 j 10:04	17°♌32'43	
conjunction	-8512 Oct 09 j 23:27	18°♌27'41	0°50'58
minimum elong	-8512 Oct 09 j 23:27	18°♌27'41	0°51'23
max. Earth dist.	-8512 Oct 11 j 04:08	18°♌31'57	20.59532 AU
morning rise	-8512 Oct 25 j 14:57	19°♌22'58	
retrograde	-8511 Jan 27 j 08:11	22°♌34'28	
min. Earth dist.	-8511 Apr 14 j 00:02	20°♌37'35	18.62560 AU
opposition	-8511 Apr 15 j 04:55	20°♌34'41	0°55'01
direct	-8511 Jun 30 j 10:39	18°♌36'50	
evening set	-8511 Sep 28 j 17:16	21°♌41'41	
conjunction	-8511 Oct 14 j 07:00	22°♌36'29	0°48'19
minimum elong	-8511 Oct 14 j 07:00	22°♌36'29	0°48'43
max. Earth dist.	-8511 Oct 15 j 12:26	22°♌40'50	20.65432 AU
morning rise	-8511 Oct 29 j 23:17	23°♌31'38	
retrograde	-8510 Jan 31 j 18:25	26°♌42'35	
opposition	-8510 Apr 19 j 18:33	24°♌42'47	0°51'56
min. Earth dist.	-8510 Apr 18 j 13:49	24°♌45'41	18.68339 AU
direct	-8510 Jul 04 j 21:23	22°♌45'11	
evening set	-8510 Oct 02 j 23:44	25°♌48'57	
conjunction	-8510 Oct 18 j 14:04	26°♌43'36	0°45'27
minimum elong	-8510 Oct 18 j 14:04	26°♌43'36	0°45'48
max. Earth dist.	-8510 Oct 19 j 20:52	26°♌48'08	20.71086 AU
morning rise	-8510 Nov 03 j 07:02	27°♌38'38	
	-8510 Dec 22 j 02:58	0°♍	
retrograde	-8509 Feb 05 j 05:34	0°♍49'03	
	-8509 Mar 23 j 21:05	30°℞♌	
min. Earth dist.	-8509 Apr 23 j 00:36	28°♌52'20	18.73869 AU
opposition	-8509 Apr 24 j 07:17	28°♌49'15	0°48'37
direct	-8509 Jul 09 j 08:59	26°♌51'52	
evening set	-8509 Oct 07 j 05:43	29°♌54'38	
	-8509 Oct 08 j 19:09	0°♍	
conjunction	-8509 Oct 22 j 20:30	0°♍49'08	0°42'22
minimum elong	-8509 Oct 22 j 20:30	0°♍49'08	0°42'42
max. Earth dist.	-8509 Oct 24 j 04:08	0°♍53'46	20.76493 AU
morning rise	-8509 Nov 07 j 14:20	1°♍44'04	
retrograde	-8508 Feb 09 j 14:23	4°♍54'00	
opposition	-8508 Apr 27 j 19:27	2°♍54'13	0°45'04
min. Earth dist.	-8508 Apr 26 j 12:57	2°♍57'17	18.79172 AU
direct	-8508 Jul 12 j 17:42	0°♍57'04	
evening set	-8508 Oct 10 j 11:15	3°♍58'53	
conjunction	-8508 Oct 26 j 02:47	4°♍53'16	0°39'05
minimum elong	-8508 Oct 26 j 02:47	4°♍53'16	0°39'23
max. Earth dist.	-8508 Oct 27 j 11:32	4°♍58'03	20.81686 AU
morning rise	-8508 Nov 10 j 21:24	5°♍48'06	
retrograde	-8507 Feb 13 j 01:06	8°♍57'34	
min. Earth dist.	-8507 Apr 30 j 22:22	7°♍01'03	18.84244 AU
opposition	-8507 May 02 j 06:35	6°♍57'49	0°41'19
direct	-8507 Jul 17 j 03:26	5°♍00'54	
evening set	-8507 Oct 14 j 16:31	8°♍01'51	
conjunction	-8507 Oct 30 j 08:41	8°♍56'09	0°35'37
minimum elong	-8507 Oct 30 j 08:42	8°♍56'09	0°35'53
max. Earth dist.	-8507 Oct 31 j 17:59	9°♍00'59	20.86626 AU
morning rise	-8507 Nov 15 j 04:18	9°♍50'55	
retrograde	-8506 Feb 17 j 08:58	12°♍59'58	
min. Earth dist.	-8506 May 05 j 09:36	11°♍03'27	18.89054 AU
opposition	-8506 May 06 j 17:15	11°♍00'16	0°37'23
direct	-8506 Jul 21 j 10:25	9°♍03'35	
evening set	-8506 Oct 18 j 21:24	12°♍03'45	
conjunction	-8506 Nov 03 j 14:23	12°♍57'57	0°32'00
minimum elong	-8506 Nov 03 j 14:23	12°♍57'57	0°32'14
max. Earth dist.	-8506 Nov 05 j 00:22	13°♍02'53	20.91296 AU
morning rise	-8506 Nov 19 j 10:51	13°♍52'39	
retrograde	-8505 Feb 21 j 19:19	17°♍01'19	
min. Earth dist.	-8505 May 09 j 18:05	15°♍05'00	18.93564 AU
opposition	-8505 May 11 j 03:03	15°♍01'42	0°33'17
direct	-8505 Jul 25 j 18:31	13°♍05'14	
evening set	-8505 Oct 23 j 02:11	16°♍04'42	
conjunction	-8505 Nov 07 j 19:53	16°♍58'51	0°28'14
minimum elong	-8505 Nov 07 j 19:53	16°♍58'51	0°28'25
max. Earth dist.	-8505 Nov 09 j 06:06	17°♍03'47	20.95636 AU
morning rise	-8505 Nov 23 j 17:23	17°♍53'30	
retrograde	-8504 Feb 26 j 02:48	21°♍01'50	
min. Earth dist.	-8504 May 13 j 04:32	19°♍05'29	18.97729 AU
opposition	-8504 May 14 j 12:31	19°♍02'17	0°29'01
direct	-8504 Jul 29 j 00:28	17°♍06'02	
evening set	-8504 Oct 26 j 06:42	20°♍04'51	
conjunction	-8504 Nov 11 j 01:21	20°♍58'57	0°24'20
minimum elong	-8504 Nov 11 j 01:21	20°♍58'57	0°24'30
max. Earth dist.	-8504 Nov 12 j 11:46	21°♍03'54	20.99615 AU
morning rise	-8504 Nov 26 j 23:50	21°♍53'35	
retrograde	-8503 Mar 01 j 12:54	25°♍01'37	
opposition	-8503 May 18 j 21:16	23°♍02'08	0°24'38
min. Earth dist.	-8503 May 17 j 12:31	23°♍05'25	19.01490 AU
direct	-8503 Aug 02 j 07:24	21°♍06'05	
evening set	-8503 Oct 30 j 11:25	24°♍04'20	
conjunction	-8503 Nov 15 j 06:52	24°♍58'24	0°20'20
minimum elong	-8503 Nov 15 j 06:52	24°♍58'24	0°20'26
max. Earth dist.	-8503 Nov 16 j 16:57	25°♍03'17	21.03142 AU
morning rise	-8503 Dec 01 j 06:23	25°♍53'02	
retrograde	-8502 Mar 05 j 20:10	29°♍00'46	
min. Earth dist.	-8502 May 21 j 22:17	27°♍04'29	19.04781 AU
opposition	-8502 May 23 j 05:31	27°♍01'21	0°20'09
direct	-8502 Aug 06 j 12:36	25°♍05'27	
evening set	-8502 Nov 03 j 15:59	28°♍03'13	
conjunction	-8502 Nov 19 j 12:25	28°♍57'17	0°16'14
minimum elong	-8502 Nov 19 j 12:26	28°♍57'17	0°16'19
max. Earth dist.	-8502 Nov 20 j 22:05	29°♍02'06	21.06186 AU
morning rise	-8502 Dec 05 j 12:56	29°♍51'55	
	-8502 Dec 07 j 23:10	0°♎	
retrograde	-8501 Mar 10 j 05:50	2°♎59'24	
min. Earth dist.	-8501 May 26 j 05:44	1°♎03'12	19.07555 AU
opposition	-8501 May 27 j 13:18	1°♎00'02	0°15'34

Attention, astronomical year style is used: The year -8501 in astronomical counting style is the year 8502 BCE in historical counting style.

	-8501 Jun 22 j 18:30	30°℞♍	
direct	-8501 Aug 10 j 18:57	29°♍04'15	
	-8501 Sep 26 j 22:21	0°♎	
evening set	-8501 Nov 07 j 20:32	2°♎01'35	
conjunction	-8501 Nov 23 j 17:50	2°♎55'39	0°12'04
minimum elong	-8501 Nov 23 j 17:51	2°♎55'39	0°12'07
behind sun begin	-8501 Nov 23 j 13:21	2°♎55'01	
behind sun end	-8501 Nov 23 j 22:21	2°♎56'16	
max. Earth dist.	-8501 Nov 25 j 02:47	3°♎00'21	21.08676 AU
morning rise	-8501 Dec 09 j 19:27	3°♎50'18	
retrograde	-8500 Mar 13 j 12:48	6°♎57'35	
opposition	-8500 May 30 j 20:50	4°♎58'12	0°10'55
min. Earth dist.	-8500 May 29 j 15:04	5°♎01'11	19.09761 AU
direct	-8500 Aug 13 j 23:29	3°♎02'29	
evening set	-8500 Nov 11 j 01:10	5°♎59'28	
conjunction	-8500 Nov 26 j 23:34	6°♎53'33	0°07'52
minimum elong	-8500 Nov 26 j 23:34	6°♎53'33	0°07'53
behind sun begin	-8500 Nov 26 j 17:38	6°♎52'43	
behind sun end	-8500 Nov 27 j 05:30	6°♎54'22	
max. Earth dist.	-8500 Nov 28 j 07:38	6°♎58'07	21.10605 AU
morning rise	-8500 Dec 13 j 02:13	7°♎48'14	
retrograde	-8499 Mar 17 j 22:01	10°♎55'18	
min. Earth dist.	-8499 Jun 02 j 21:56	8°♎58'53	19.11394 AU
opposition	-8499 Jun 04 j 03:39	8°♎55'54	0°06'14
direct	-8499 Aug 18 j 05:33	7°♎00'11	
evening set	-8499 Nov 15 j 05:56	9°♎56'53	
conjunction	-8499 Dec 01 j 05:17	10°♎51'00	0°03'39
minimum elong	-8499 Dec 01 j 05:17	10°♎51'00	0°03'37
behind sun begin	-8499 Nov 30 j 22:43	10°♎50'06	
behind sun end	-8499 Dec 01 j 11:51	10°♎51'55	
max. Earth dist.	-8499 Dec 02 j 12:21	10°♎55'25	21.11948 AU
morning rise	-8499 Dec 17 j 09:02	11°♎45'44	
retrograde	-8498 Mar 22 j 04:19	14°♎52'37	
min. Earth dist.	-8498 Jun 07 j 06:31	12°♎55'58	19.12459 AU
opposition	-8498 Jun 08 j 10:14	12°♎53'11	0°01'32
direct	-8498 Aug 22 j 09:13	10°♎57'27	
desc. node	-8498 Oct 05 j 13:33	11°♎46'29	
evening set	-8498 Nov 19 j 10:32	13°♎53'54	
conjunction	-8498 Dec 05 j 10:57	14°♎48'04	-0°00'42
minimum elong	-8498 Dec 05 j 10:57	14°♎48'04	0°00'48
behind sun begin	-8498 Dec 05 j 04:20	14°♎47'09	
behind sun end	-8498 Dec 05 j 17:34	14°♎48'59	
max. Earth dist.	-8498 Dec 06 j 17:04	14°♎52'21	21.12758 AU
morning rise	-8498 Dec 21 j 15:43	15°♎42'51	
retrograde	-8497 Mar 26 j 13:01	18°♎49'36	
opposition	-8497 Jun 12 j 16:16	16°♎50'05	-0°03'10
min. Earth dist.	-8497 Jun 11 j 12:41	16°♎52'52	19.13009 AU
direct	-8497 Aug 26 j 14:55	14°♎54'17	
evening set	-8497 Nov 23 j 15:25	17°♎50'36	
conjunction	-8497 Dec 09 j 16:48	18°♎44'50	-0°04'59
minimum elong	-8497 Dec 09 j 16:48	18°♎44'50	0°05'05
behind sun begin	-8497 Dec 09 j 10:21	18°♎43'57	
behind sun end	-8497 Dec 09 j 23:15	18°♎45'44	
max. Earth dist.	-8497 Dec 10 j 21:58	18°♎48'58	21.13064 AU
morning rise	-8497 Dec 25 j 22:39	19°♎39'42	
retrograde	-8496 Mar 29 j 19:13	22°♎46'21	
opposition	-8496 Jun 15 j 22:03	20°♎46'45	-0°07'50
min. Earth dist.	-8496 Jun 14 j 20:28	20°♎49'20	19.13090 AU
direct	-8496 Aug 29 j 17:57	18°♎50'52	
evening set	-8496 Nov 26 j 20:22	21°♎47'07	
conjunction	-8496 Dec 12 j 22:53	22°♎41'27	-0°09'10
minimum elong	-8496 Dec 12 j 22:53	22°♎41'27	0°09'20
behind sun begin	-8496 Dec 12 j 17:19	22°♎40'41	
behind sun end	-8496 Dec 13 j 04:27	22°♎42'13	
max. Earth dist.	-8496 Dec 14 j 02:59	22°♎45'25	21.12938 AU
morning rise	-8496 Dec 29 j 05:48	23°♎36'24	
retrograde	-8495 Apr 03 j 03:46	26°♎42'59	
min. Earth dist.	-8495 Jun 19 j 02:07	24°♎45'52	19.12749 AU
opposition	-8495 Jun 20 j 03:26	24°♎43'19	-0°12'28
direct	-8495 Sep 02 j 23:00	22°♎47'20	
evening set	-8495 Dec 01 j 01:43	25°♎43'38	
conjunction	-8495 Dec 17 j 05:13	26°♎38'03	-0°13'19
minimum elong	-8495 Dec 17 j 05:12	26°♎38'03	0°13'30
behind sun begin	-8495 Dec 17 j 01:32	26°♎37'33	
behind sun end	-8495 Dec 17 j 08:52	26°♎38'34	
max. Earth dist.	-8495 Dec 18 j 08:10	26°♎41'52	21.12382 AU
morning rise	-8494 Jan 02 j 13:08	27°♎33'06	
	-8494 Feb 25 j 10:16	0°♏	
retrograde	-8494 Apr 07 j 10:31	0°♏39'41	
	-8494 May 19 j 04:51	30°℞♎	
min. Earth dist.	-8494 Jun 23 j 09:23	28°♎42'19	19.11997 AU
opposition	-8494 Jun 24 j 08:37	28°♎39'58	-0°17'02
direct	-8494 Sep 07 j 01:58	26°♎43'53	
evening set	-8494 Dec 05 j 07:14	29°♎40'18	
	-8494 Dec 11 j 04:55	0°♏	
conjunction	-8494 Dec 21 j 11:50	0°♏34'51	-0°17'25
minimum elong	-8494 Dec 21 j 11:49	0°♏34'51	0°17'39
max. Earth dist.	-8494 Dec 22 j 13:27	0°♏38'28	21.11448 AU
morning rise	-8493 Jan 06 j 20:44	1°♏30'01	
retrograde	-8493 Apr 11 j 19:08	4°♏36'38	
opposition	-8493 Jun 28 j 13:39	2°♏36'52	-0°21'32
min. Earth dist.	-8493 Jun 27 j 14:48	2°♏39'12	19.10867 AU
direct	-8493 Sep 11 j 06:10	0°♏40'42	
evening set	-8493 Dec 09 j 13:04	3°♏37'19	
conjunction	-8493 Dec 25 j 18:41	4°♏32'00	-0°21'27
minimum elong	-8493 Dec 25 j 18:41	4°♏32'00	0°21'42
max. Earth dist.	-8493 Dec 26 j 19:03	4°♏35'27	21.10119 AU
morning rise	-8492 Jan 11 j 04:37	5°♏27'18	
retrograde	-8492 Apr 15 j 02:33	8°♏34'01	
opposition	-8492 Jul 01 j 18:44	6°♏34'14	-0°25'56
min. Earth dist.	-8492 Jun 30 j 22:08	6°♏36'20	19.09338 AU
direct	-8492 Sep 14 j 09:35	4°♏37'57	
evening set	-8492 Dec 12 j 19:32	7°♏34'53	
conjunction	-8492 Dec 29 j 02:15	8°♏29'43	-0°25'23
minimum elong	-8492 Dec 29 j 02:15	8°♏29'43	0°25'40
max. Earth dist.	-8492 Dec 30 j 00:52	8°♏32'55	21.08402 AU
morning rise	-8491 Jan 14 j 13:10	9°♏25'09	
retrograde	-8491 Apr 19 j 11:51	12°♏32'00	
opposition	-8491 Jul 05 j 23:34	10°♏32'12	-0°30'14
min. Earth dist.	-8491 Jul 05 j 03:47	10°♏34'13	19.07408 AU
direct	-8491 Sep 18 j 13:40	8°♏35'48	
evening set	-8491 Dec 17 j 02:35	11°♏33'07	
conjunction	-8490 Jan 02 j 10:17	12°♏28'08	-0°29'13
minimum elong	-8490 Jan 02 j 10:17	12°♏28'08	0°29'32
max. Earth dist.	-8490 Jan 03 j 07:15	12°♏31'05	21.06250 AU
morning rise	-8490 Jan 18 j 22:06	13°♏23'43	
	-8490 Feb 19 j 14:58	15°♏	
retrograde	-8490 Apr 23 j 19:27	16°♏30'44	
	-8490 Jun 28 j 05:11	15°℞♏	
min. Earth dist.	-8490 Jul 09 j 11:25	14°♏32'43	19.05033 AU
opposition	-8490 Jul 10 j 04:41	14°♏30'57	-0°34'24
direct	-8490 Sep 22 j 17:30	12°♏34'25	
	-8490 Dec 11 j 11:58	15°♏	

Attention, astronomical year style is used: The year -8490 in astronomical counting style is the year 8491 BCE in historical counting style.

evening set	-8490 Dec 21 j 10:01	15°♏32'12		
conjunction	-8489 Jan 06 j 18:46	16°♏27'23	-0°32'55	
minimum elong	-8489 Jan 06 j 18:45	16°♏27'23	0°33'16	
max. Earth dist.	-8489 Jan 07 j 13:35	16°♏30'03	21.03657 AU	
morning rise	-8489 Jan 23 j 07:28	17°♏23'08		
retrograde	-8489 Apr 28 j 05:41	20°♏30'24		
opposition	-8489 Jul 14 j 09:49	18°♏30'34	-0°38'26	
min. Earth dist.	-8489 Jul 13 j 17:42	18°♏32'13	19.02195 AU	
direct	-8489 Sep 26 j 22:31	16°♏33'52		
evening set	-8489 Dec 25 j 18:20	19°♏32'12		
conjunction	-8488 Jan 11 j 04:03	20°♏27'35	-0°36'28	
minimum elong	-8488 Jan 11 j 04:03	20°♏27'35	0°36'52	
max. Earth dist.	-8488 Jan 11 j 20:51	20°♏29'57	21.00563 AU	
morning rise	-8488 Jan 27 j 17:35	21°♏23'31		
retrograde	-8488 May 01 j 13:37	24°♏31'00		
opposition	-8488 Jul 17 j 15:08	22°♏31'09	-0°42'17	
min. Earth dist.	-8488 Jul 17 j 01:53	22°♏32'31	18.98847 AU	
direct	-8488 Sep 30 j 02:32	20°♏34'14		
evening set	-8488 Dec 29 j 03:19	23°♏33'11		
conjunction	-8487 Jan 14 j 14:03	24°♏28'46	-0°39'52	
minimum elong	-8487 Jan 14 j 14:03	24°♏28'46	0°40'16	
max. Earth dist.	-8487 Jan 15 j 04:05	24°♏30'45	20.96963 AU	
morning rise	-8487 Jan 31 j 04:27	25°♏24'53		
retrograde	-8487 May 06 j 00:34	28°♏32'39		
opposition	-8487 Jul 21 j 20:39	26°♏32'43	-0°45'56	
min. Earth dist.	-8487 Jul 21 j 08:55	26°♏33'55	18.94975 AU	
direct	-8487 Oct 04 j 09:06	24°♏35'31		
evening set	-8486 Jan 02 j 12:58	27°♏35'09		
conjunction	-8486 Jan 19 j 00:38	28°♏30'57	-0°43'04	
minimum elong	-8486 Jan 19 j 00:37	28°♏30'57	0°43'30	
max. Earth dist.	-8486 Jan 19 j 12:23	28°♏32'37	20.92815 AU	
morning rise	-8486 Feb 04 j 15:42	29°♏27'16		
	-8486 Feb 14 j 16:39	0°♐		
retrograde	-8486 May 10 j 08:34	2°♐35'18		
opposition	-8486 Jul 26 j 02:24	0°♐35'16	-0°49'22	
min. Earth dist.	-8486 Jul 25 j 17:36	0°♐36'11	18.90568 AU	
	-8486 Aug 09 j 13:17	30°℞♏		
direct	-8486 Oct 08 j 13:41	28°♏37'46		
	-8486 Dec 05 j 15:31	0°♐		
evening set	-8485 Jan 06 j 23:12	1°♐38'07		
conjunction	-8485 Jan 23 j 11:47	2°♐34'09	-0°46'03	
minimum elong	-8485 Jan 23 j 11:47	2°♐34'09	0°46'31	
max. Earth dist.	-8485 Jan 23 j 20:37	2°♐35'24	20.88177 AU	
morning rise	-8485 Feb 09 j 03:40	3°♐30'39		
retrograde	-8485 May 14 j 19:48	6°♐39'00		
opposition	-8485 Jul 30 j 08:18	4°♐38'50	-0°52'34	
min. Earth dist.	-8485 Jul 30 j 01:06	4°♐39'35	18.85693 AU	
direct	-8485 Oct 12 j 21:24	2°♐40'58		
evening set	-8484 Jan 11 j 10:03	5°♐42'05		
conjunction	-8484 Jan 27 j 23:35	6°♐38'22	-0°48'50	
minimum elong	-8484 Jan 27 j 23:35	6°♐38'22	0°49'19	
max. Earth dist.	-8484 Jan 28 j 06:18	6°♐39'20	20.83077 AU	
morning rise	-8484 Feb 13 j 16:05	7°♐35'05		
retrograde	-8484 May 18 j 04:24	10°♐43'45		
opposition	-8484 Aug 02 j 14:34	8°♐43'26	-0°55'31	
min. Earth dist.	-8484 Aug 02 j 10:10	8°♐43'53	18.80388 AU	
direct	-8484 Oct 16 j 03:11	6°♐45'10		
evening set	-8483 Jan 14 j 21:43	9°♐47'09		
conjunction	-8483 Jan 31 j 12:06	10°♐43'40	-0°51'22	
minimum elong	-8483 Jan 31 j 12:05	10°♐43'40	0°51'52	
max. Earth dist.	-8483 Jan 31 j 15:49	10°♐44'12	20.77601 AU	
morning rise	-8483 Feb 17 j 05:17	11°♐40'37		
retrograde	-8483 May 22 j 15:55	14°♐49'37		
opposition	-8483 Aug 06 j 20:54	12°♐49'08	-0°58'12	
min. Earth dist.	-8483 Aug 06 j 18:08	12°♐49'26	18.74746 AU	
direct	-8483 Oct 20 j 11:20	10°♐50'28		
evening set	-8482 Jan 19 j 10:04	13°♐53'23		
conjunction	-8482 Feb 05 j 01:17	14°♐50'09	-0°53'39	
minimum elong	-8482 Feb 05 j 01:16	14°♐50'09	0°54'09	
max. Earth dist.	-8482 Feb 05 j 03:08	14°♐50'25	20.71801 AU	
morning rise	-8482 Feb 21 j 18:54	15°♐47'19		
retrograde	-8482 May 27 j 01:53	18°♐56'42		
opposition	-8482 Aug 11 j 03:49	16°♐56'05	-1°00'36	
min. Earth dist.	-8482 Aug 11 j 03:32	16°♐56'06	18.68819 AU	
direct	-8482 Oct 24 j 18:22	14°♐57'00		
evening set	-8481 Jan 23 j 22:59	18°♐00'53		
conjunction	-8481 Feb 09 j 14:54	18°♐57'56	-0°55'40	
minimum elong	-8481 Feb 09 j 14:53	18°♐57'56	0°56'12	
max. Earth dist.	-8481 Feb 09 j 13:49	18°♐57'47	20.65770 AU	
morning rise	-8481 Feb 26 j 09:08	19°♐55'19		
retrograde	-8481 May 31 j 13:55	23°♐05'09		
opposition	-8481 Aug 15 j 11:03	21°♐04'23	-1°02'42	
min. Earth dist.	-8481 Aug 15 j 12:16	21°♐04'15	18.62691 AU	
direct	-8481 Oct 29 j 02:57	19°♐04'53		
evening set	-8480 Jan 28 j 12:51	22°♐09'51		
conjunction	-8480 Feb 14 j 05:33	23°♐07'10	-0°57'25	
minimum elong	-8480 Feb 14 j 05:33	23°♐07'10	0°57'56	
max. Earth dist.	-8480 Feb 14 j 02:48	23°♐06'46	20.59542 AU	
morning rise	-8480 Mar 02 j 00:05	24°♐04'47		
retrograde	-8480 Jun 04 j 01:30	27°♐15'04		
opposition	-8480 Aug 18 j 18:44	25°♐14'12	-1°04'30	
min. Earth dist.	-8480 Aug 18 j 22:19	25°♐13'49	18.56388 AU	
direct	-8480 Nov 01 j 11:21	23°♐14'18		
evening set	-8479 Feb 01 j 03:40	26°♐20'24		
conjunction	-8479 Feb 17 j 20:56	27°♐18'00	-0°58'52	
minimum elong	-8479 Feb 17 j 20:56	27°♐18'00	0°59'24	
max. Earth dist.	-8479 Feb 17 j 15:01	27°♐17'09	20.53181 AU	
morning rise	-8479 Mar 06 j 15:57	28°♐15'52		
	-8479 Apr 09 j 10:07	0°♑		
retrograde	-8479 Jun 08 j 14:30	1°♑26'39		
	-8479 Aug 09 j 09:50	30°℞♐		
opposition	-8479 Aug 23 j 03:02	29°♐25'42	-1°05'58	
min. Earth dist.	-8479 Aug 23 j 08:10	29°♐25'09	18.49970 AU	
direct	-8479 Nov 05 j 20:59	27°♐25'25		
	-8478 Jan 26 j 23:20	0°♑		
evening set	-8478 Feb 05 j 19:09	0°♑32'43		
conjunction	-8478 Feb 22 j 13:06	1°♑30'37	-1°00'01	
minimum elong	-8478 Feb 22 j 13:06	1°♑30'37	1°00'34	
max. Earth dist.	-8478 Feb 22 j 05:42	1°♑29'32	20.46697 AU	
morning rise	-8478 Mar 11 j 08:13	2°♑28'42		
retrograde	-8478 Jun 13 j 03:32	5°♑40'02		
opposition	-8478 Aug 27 j 11:57	3°♑39'02	-1°07'05	
min. Earth dist.	-8478 Aug 27 j 19:17	3°♑38'15	18.43439 AU	
direct	-8478 Nov 10 j 06:45	1°♑38'23		
evening set	-8477 Feb 10 j 11:44	4°♑46'57		
conjunction	-8477 Feb 27 j 06:05	5°♑45'08	-1°00'51	
minimum elong	-8477 Feb 27 j 06:05	5°♑45'08	1°01'24	
max. Earth dist.	-8477 Feb 26 j 19:23	5°♑43'34	20.40130 AU	
morning rise	-8477 Mar 16 j 01:34	6°♑43'28		
retrograde	-8477 Jun 17 j 17:57	9°♑55'22		
opposition	-8477 Aug 31 j 21:26	7°♑54'19	-1°07'51	

Attention, astronomical year style is used: The year -8477 in astronomical counting style is the year 8478 BCE in historical counting style.

min. Earth dist.	-8477 Sep 01 j 06:34	7°♉53'21	18.36829 AU
direct	-8477 Nov 14 j 17:49	5°♉53'19	
evening set	-8476 Feb 15 j 05:13	9°♉03'12	
conjunction	-8476 Mar 03 j 00:12	10°♉01'41	-1°01'21
minimum elong	-8476 Mar 03 j 00:12	10°♉01'41	1°01'55
max. Earth dist.	-8476 Mar 02 j 12:01	9°♉59'54	20.33459 AU
morning rise	-8476 Mar 19 j 19:38	11°♉00'16	
retrograde	-8476 Jun 21 j 08:40	14°♉12'45	
opposition	-8476 Sep 04 j 07:45	12°♉11'41	-1°08'14
min. Earth dist.	-8476 Sep 04 j 19:10	12°♉10'28	18.30100 AU
direct	-8476 Nov 18 j 05:11	10°♉10'19	
evening set	-8475 Feb 18 j 23:54	13°♉21'33	
conjunction	-8475 Mar 07 j 19:05	14°♉20'19	-1°01'30
minimum elong	-8475 Mar 07 j 19:05	14°♉20'19	1°02'03
max. Earth dist.	-8475 Mar 07 j 03:16	14°♉17'59	20.26674 AU
morning rise	-8475 Mar 24 j 14:42	15°♉19'09	
retrograde	-8475 Jun 26 j 00:34	18°♉32'14	
opposition	-8475 Sep 08 j 18:45	16°♉31'08	-1°08'15
min. Earth dist.	-8475 Sep 09 j 08:17	16°♉29'41	18.23259 AU
direct	-8475 Nov 22 j 17:57	14°♉29'22	
evening set	-8474 Feb 23 j 19:22	17°♉41'59	
conjunction	-8474 Mar 12 j 15:01	18°♉41'03	-1°01'19
minimum elong	-8474 Mar 12 j 15:01	18°♉41'03	1°01'51
max. Earth dist.	-8474 Mar 11 j 21:44	18°♉38'30	20.19760 AU
morning rise	-8474 Mar 29 j 10:24	19°♉40'07	
retrograde	-8474 Jun 30 j 17:07	22°♉53'48	
opposition	-8474 Sep 13 j 06:40	20°♉52'39	-1°07'51
min. Earth dist.	-8474 Sep 13 j 22:17	20°♉50'58	18.16284 AU
direct	-8474 Nov 27 j 07:17	18°♉50'30	
evening set	-8473 Feb 28 j 15:45	22°♉04'28	
conjunction	-8473 Mar 17 j 11:29	23°♉03'48	-1°00'45
minimum elong	-8473 Mar 17 j 11:29	23°♉03'48	1°01'17
max. Earth dist.	-8473 Mar 16 j 14:30	23°♉00'41	20.12730 AU
morning rise	-8473 Apr 03 j 06:56	24°♉03'08	
retrograde	-8473 Jul 05 j 10:06	27°♉17'23	
opposition	-8473 Sep 17 j 19:22	25°♉16'09	-1°07'04
min. Earth dist.	-8473 Sep 18 j 13:11	25°♉14'14	18.09210 AU
direct	-8473 Dec 01 j 21:31	23°♉13'33	
evening set	-8472 Mar 04 j 13:03	26°♉28'54	
max. Earth dist.	-8472 Mar 20 j 10:48	27°♉25'12	20.05608 AU
conjunction	-8472 Mar 21 j 09:06	27°♉28'31	-0°59'50
minimum elong	-8472 Mar 21 j 09:06	27°♉28'31	1°00'21
morning rise	-8472 Apr 07 j 04:11	28°♉28'04	
	-8472 May 05 j 13:11	0°♒	
retrograde	-8472 Jul 09 j 04:22	1°♒42'54	
	-8472 Sep 14 j 04:44	30°℞♉	
opposition	-8472 Sep 21 j 08:44	29°♉41'33	-1°05'52
min. Earth dist.	-8472 Sep 22 j 04:21	29°♉39'26	18.02059 AU
direct	-8472 Dec 05 j 13:14	27°♉38'31	
	-8471 Feb 21 j 02:16	0°♒	
evening set	-8471 Mar 09 j 11:20	0°♒55'13	
max. Earth dist.	-8471 Mar 25 j 05:31	1°♒51'16	19.98455 AU
conjunction	-8471 Mar 26 j 07:16	1°♒55'07	-0°58'34
minimum elong	-8471 Mar 26 j 07:17	1°♒55'07	0°59'04
morning rise	-8471 Apr 12 j 02:12	2°♒54'54	
retrograde	-8471 Jul 13 j 21:48	6°♒10'17	
opposition	-8471 Sep 25 j 23:01	4°♒08'48	-1°04'17
min. Earth dist.	-8471 Sep 26 j 20:47	4°♒06'27	17.94928 AU
direct	-8471 Dec 10 j 04:44	2°♒05'18	
evening set	-8470 Mar 14 j 10:00	5°♒23'21	
max. Earth dist.	-8470 Mar 30 j 03:32	6°♒19'32	19.91351 AU
conjunction	-8470 Mar 31 j 06:04	6°♒23'31	-0°56'55
minimum elong	-8470 Mar 31 j 06:04	6°♒23'31	0°57'24
morning rise	-8470 Apr 17 j 00:28	7°♒23'30	
retrograde	-8470 Jul 18 j 17:33	10°♒39'26	
opposition	-8470 Sep 30 j 14:01	8°♒37'50	-1°02'17
min. Earth dist.	-8470 Oct 01 j 12:56	8°♒35'21	17.87876 AU
direct	-8470 Dec 14 j 22:44	6°♒33'53	
evening set	-8469 Mar 19 j 09:41	9°♒53'15	
max. Earth dist.	-8469 Apr 04 j 00:06	10°♒49'14	19.84376 AU
conjunction	-8469 Apr 05 j 05:28	10°♒53'40	-0°54'56
minimum elong	-8469 Apr 05 j 05:28	10°♒53'40	0°55'24
morning rise	-8469 Apr 21 j 23:32	11°♒53'51	
	-8469 Jul 04 j 00:11	15°♒	
retrograde	-8469 Jul 23 j 11:12	15°♒10'20	
	-8469 Aug 12 j 00:17	15°℞♒	
opposition	-8469 Oct 05 j 05:45	13°♒08'35	-0°59'54
min. Earth dist.	-8469 Oct 06 j 06:42	13°♒05'52	17.81010 AU
direct	-8469 Dec 19 j 16:01	11°♒04'11	
evening set	-8468 Mar 23 j 09:56	14°♒24'53	
	-8468 Apr 02 j 05:02	15°♒	
max. Earth dist.	-8468 Apr 07 j 23:47	15°♒21'00	19.77619 AU
conjunction	-8468 Apr 09 j 05:39	15°♒25'32	-0°52'35
minimum elong	-8468 Apr 09 j 05:40	15°♒25'32	0°53'01
morning rise	-8468 Apr 25 j 23:05	16°♒25'53	
retrograde	-8468 Jul 27 j 07:52	19°♒42'54	
opposition	-8468 Oct 08 j 22:23	17°♒41'02	-0°57'07
min. Earth dist.	-8468 Oct 09 j 23:53	17°♒38'16	17.74382 AU
direct	-8468 Dec 23 j 12:04	15°♒36'15	
evening set	-8467 Mar 28 j 10:57	18°♒58'13	
max. Earth dist.	-8467 Apr 12 j 22:14	19°♒54'13	19.71140 AU
conjunction	-8467 Apr 14 j 06:11	19°♒59'04	-0°49'54
minimum elong	-8467 Apr 14 j 06:12	19°♒59'04	0°50'18
morning rise	-8467 Apr 30 j 23:00	20°♒59'36	
retrograde	-8467 Aug 01 j 02:22	24°♒17'09	
opposition	-8467 Oct 13 j 15:58	22°♒15'11	-0°53'58
min. Earth dist.	-8467 Oct 14 j 19:10	22°♒12'14	17.68089 AU
direct	-8467 Dec 28 j 07:27	20°♒10'01	
evening set	-8466 Apr 02 j 12:26	23°♒33'15	
max. Earth dist.	-8466 Apr 17 j 23:10	24°♒29'23	19.65034 AU
conjunction	-8466 Apr 19 j 07:21	24°♒34'18	-0°46'53
minimum elong	-8466 Apr 19 j 07:21	24°♒34'19	0°47'17
morning rise	-8466 May 05 j 23:25	25°♒35'00	
retrograde	-8466 Aug 06 j 00:02	28°♒53'04	
opposition	-8466 Oct 18 j 10:17	26°♒51'02	-0°50'28
min. Earth dist.	-8466 Oct 19 j 13:24	26°♒48'05	17.62183 AU
direct	-8465 Jan 02 j 05:26	24°♒45'33	
evening set	-8465 Apr 07 j 14:33	28°♒10'00	
max. Earth dist.	-8465 Apr 22 j 23:26	29°♒06'06	19.59339 AU
conjunction	-8465 Apr 24 j 08:55	29°♒11'15	-0°43'34
minimum elong	-8465 Apr 24 j 08:56	29°♒11'15	0°43'54
	-8465 May 07 j 16:01	0°♓	
morning rise	-8465 May 11 j 00:13	0°♓12'04	
retrograde	-8465 Aug 10 j 19:52	3°♓30'40	
opposition	-8465 Oct 23 j 05:39	1°♓28'37	-0°46'36
min. Earth dist.	-8465 Oct 24 j 10:17	1°♓25'29	17.56714 AU
	-8465 Nov 29 j 20:13	30°℞♒	
direct	-8464 Jan 07 j 02:20	29°♒22'51	
	-8464 Feb 13 j 22:52	0°♓	
evening set	-8464 Apr 11 j 17:19	2°♓48'29	
max. Earth dist.	-8464 Apr 27 j 01:20	3°♓44'41	19.54098 AU
conjunction	-8464 Apr 28 j 11:06	3°♓49'53	-0°39'56

Attention, astronomical year style is used: The year -8464 in astronomical counting style is the year 8465 BCE in historical counting style.

minimum elong	-8464 Apr 28 j 11:06	3°♓49'53	0°40'14
morning rise	-8464 May 15 j 01:32	4°♓50'50	
retrograde	-8464 Aug 14 j 18:58	8°♓09'56	
opposition	-8464 Oct 27 j 01:42	6°♓07'54	-0°42'24
min. Earth dist.	-8464 Oct 28 j 05:58	6°♓04'49	17.51692 AU
direct	-8463 Jan 11 j 02:13	4°♓01'57	
evening set	-8463 Apr 16 j 20:38	7°♓28'42	
max. Earth dist.	-8463 May 02 j 03:28	8°♓24'57	19.49301 AU
conjunction	-8463 May 03 j 13:42	8°♓30'14	-0°36'01
minimum elong	-8463 May 03 j 13:43	8°♓30'14	0°36'17
morning rise	-8463 May 20 j 03:07	9°♓31'17	
retrograde	-8463 Aug 19 j 16:21	12°♓50'53	
opposition	-8463 Oct 31 j 22:56	10°♓48'53	-0°37'54
min. Earth dist.	-8463 Nov 02 j 04:36	10°♓45'39	17.47128 AU
direct	-8462 Jan 16 j 00:47	8°♓42'46	
evening set	-8462 Apr 22 j 00:15	12°♓10'34	
max. Earth dist.	-8462 May 07 j 05:50	13°♓06'50	19.44961 AU
conjunction	-8462 May 08 j 16:28	13°♓12'13	-0°31'49
minimum elong	-8462 May 08 j 16:28	13°♓12'13	0°32'02
morning rise	-8462 May 25 j 04:59	14°♓13'21	
retrograde	-8462 Aug 24 j 16:39	17°♓33'26	
opposition	-8462 Nov 05 j 20:52	15°♓31'28	-0°33'06
min. Earth dist.	-8462 Nov 07 j 01:55	15°♓28'18	17.42998 AU
direct	-8461 Jan 21 j 02:23	13°♓25'12	
evening set	-8461 Apr 27 j 04:24	16°♓53'57	
max. Earth dist.	-8461 May 12 j 09:21	17°♓50'20	19.41035 AU
conjunction	-8461 May 13 j 19:48	17°♓55'42	-0°27'24
minimum elong	-8461 May 13 j 19:49	17°♓55'42	0°27'35
morning rise	-8461 May 30 j 07:06	18°♓56'54	
retrograde	-8461 Aug 29 j 15:06	22°♓17'23	
opposition	-8461 Nov 10 j 19:42	20°♓15'28	-0°28'03
min. Earth dist.	-8461 Nov 12 j 02:02	20°♓12'10	17.39285 AU
direct	-8460 Jan 26 j 02:33	18°♓09'05	
evening set	-8460 May 01 j 08:59	21°♓38'42	
conjunction	-8460 May 17 j 23:17	22°♓40'30	-0°22'46
minimum elong	-8460 May 17 j 23:17	22°♓40'30	0°22'54
max. Earth dist.	-8460 May 16 j 12:07	22°♓35'00	19.37533 AU
morning rise	-8460 Jun 03 j 09:34	23°♓41'44	
retrograde	-8460 Sep 02 j 16:27	27°♓02'37	
opposition	-8460 Nov 14 j 19:22	25°♓00'43	-0°22'47
min. Earth dist.	-8460 Nov 16 j 00:50	24°♓57'30	17.35988 AU
direct	-8459 Jan 30 j 05:50	22°♓54'13	
evening set	-8459 May 06 j 13:31	26°♓24'33	
max. Earth dist.	-8459 May 21 j 16:44	27°♓21'02	19.34441 AU
conjunction	-8459 May 23 j 02:53	27°♓26'24	-0°17'58
minimum elong	-8459 May 23 j 02:53	27°♓26'24	0°18'04
morning rise	-8459 Jun 08 j 11:47	28°♓27'38	
	-8459 Jul 05 j 09:56	0°♈	
retrograde	-8459 Sep 07 j 15:44	1°♈48'50	
	-8459 Nov 14 j 19:56	30°♑♓	
opposition	-8459 Nov 19 j 19:54	29°♓46'58	-0°17'20
min. Earth dist.	-8459 Nov 21 j 02:05	29°♓43'41	17.33115 AU
direct	-8458 Feb 04 j 07:08	27°♓40'23	
	-8458 Apr 21 j 10:56	0°♈	
evening set	-8458 May 11 j 18:17	1°♈11'19	
max. Earth dist.	-8458 May 26 j 19:41	2°♈07'42	19.31802 AU
conjunction	-8458 May 28 j 06:23	2°♈13'09	-0°13'02
minimum elong	-8458 May 28 j 06:22	2°♈13'09	0°13'05
behind sun begin	-8458 May 28 j 02:24	2°♈12'33	
behind sun end	-8458 May 28 j 10:20	2°♈13'46	
morning rise	-8458 Jun 13 j 14:14	3°♈14'22	
retrograde	-8458 Sep 12 j 17:33	6°♈35'51	
opposition	-8458 Nov 24 j 20:45	4°♈33'58	-0°11'46
min. Earth dist.	-8458 Nov 26 j 01:52	4°♈30'48	17.30710 AU
direct	-8457 Feb 09 j 11:14	2°♈27'18	
evening set	-8457 May 16 j 22:51	5°♈58'43	
max. Earth dist.	-8457 Jun 01 j 01:02	6°♈55'21	19.29637 AU
conjunction	-8457 Jun 02 j 09:56	7°♈00'32	-0°08'00
minimum elong	-8457 Jun 02 j 09:56	7°♈00'32	0°08'00
behind sun begin	-8457 Jun 02 j 03:57	6°♈59'37	
behind sun end	-8457 Jun 02 j 15:55	7°♈01'28	
morning rise	-8457 Jun 18 j 16:23	8°♈01'43	
retrograde	-8457 Sep 17 j 17:20	11°♈23'24	
opposition	-8457 Nov 29 j 22:26	9°♈21'31	-0°06'06
min. Earth dist.	-8457 Dec 01 j 03:35	9°♈18'21	17.28791 AU
direct	-8456 Feb 14 j 13:36	7°♈14'48	
evening set	-8456 May 21 j 03:24	10°♈46'33	
max. Earth dist.	-8456 Jun 05 j 04:03	11°♈43'06	19.27992 AU
conjunction	-8456 Jun 06 j 13:03	11°♈48'19	-0°02'55
minimum elong	-8456 Jun 06 j 13:03	11°♈48'19	0°02'53
behind sun begin	-8456 Jun 06 j 06:23	11°♈47'17	
behind sun end	-8456 Jun 06 j 19:44	11°♈49'20	
morning rise	-8456 Jun 22 j 18:22	12°♈49'25	
retrograde	-8456 Sep 21 j 18:46	16°♈11'17	
opposition	-8456 Dec 04 j 00:29	14°♈09'22	-0°00'23
min. Earth dist.	-8456 Dec 05 j 04:19	14°♈06'20	17.27425 AU
asc. node	-8456 Dec 28 j 05:36	13°♈08'53	
direct	-8455 Feb 18 j 18:56	12°♈02'36	
evening set	-8455 May 26 j 07:29	15°♈34'35	
max. Earth dist.	-8455 Jun 10 j 09:34	16°♈31'26	19.26918 AU
conjunction	-8455 Jun 11 j 16:01	16°♈36'15	0°02'20
minimum elong	-8455 Jun 11 j 16:01	16°♈36'15	0°02'27
behind sun begin	-8455 Jun 11 j 09:21	16°♈35'13	
behind sun end	-8455 Jun 11 j 22:42	16°♈37'17	
morning rise	-8455 Jun 27 j 19:55	17°♈37'16	
retrograde	-8455 Sep 26 j 18:14	20°♈59'14	
opposition	-8455 Dec 09 j 03:04	18°♈57'18	0°05'20
min. Earth dist.	-8455 Dec 10 j 05:58	18°♈54'23	17.26648 AU
direct	-8454 Feb 23 j 22:59	16°♈50'34	
evening set	-8454 May 31 j 11:13	20°♈22'36	
conjunction	-8454 Jun 16 j 18:18	21°♈24'08	0°07'26
minimum elong	-8454 Jun 16 j 18:18	21°♈24'08	0°07'34
behind sun begin	-8454 Jun 16 j 12:14	21°♈23'12	
behind sun end	-8454 Jun 17 j 00:22	21°♈25'05	
max. Earth dist.	-8454 Jun 15 j 12:29	21°♈19'25	19.26460 AU
morning rise	-8454 Jul 02 j 21:03	22°♈25'03	
retrograde	-8454 Oct 01 j 18:45	25°♈47'05	
opposition	-8454 Dec 14 j 05:55	23°♈45'08	0°11'00
min. Earth dist.	-8454 Dec 15 j 07:18	23°♈42'23	17.26518 AU
direct	-8453 Mar 01 j 04:47	21°♈38'26	
evening set	-8453 Jun 05 j 14:32	25°♈10'26	
conjunction	-8453 Jun 21 j 20:23	26°♈11'50	0°12'27
minimum elong	-8453 Jun 21 j 20:23	26°♈11'50	0°12'39
behind sun begin	-8453 Jun 21 j 16:09	26°♈11'11	
behind sun end	-8453 Jun 22 j 00:38	26°♈12'30	
max. Earth dist.	-8453 Jun 20 j 17:27	26°♈07'34	19.26660 AU
morning rise	-8453 Jul 07 j 21:44	27°♈12'36	
	-8453 Sep 01 j 15:27	0°♉	
retrograde	-8453 Oct 06 j 18:16	0°♉34'39	
	-8453 Nov 11 j 20:43	30°♑♈	
opposition	-8453 Dec 19 j 09:01	28°♈32'43	0°16'36
min. Earth dist.	-8453 Dec 20 j 08:34	28°♈30'11	17.27044 AU
direct	-8452 Mar 05 j 10:20	26°♈26'09	

Attention, astronomical year style is used: The year -8452 in astronomical counting style is the year 8453 BCE in historical counting style.

evening set	-8452 Jun 09 j 17:33	29°♈57'59		
	-8452 Jun 10 j 06:36	0°♉		
conjunction	-8452 Jun 25 j 21:55	0°♉59'12	0°17'24	
minimum elong	-8452 Jun 25 j 21:55	0°♉59'12	0°17'38	
max. Earth dist.	-8452 Jun 24 j 20:18	0°♉55'09	19.27537 AU	
morning rise	-8452 Jul 11 j 22:03	1°♉59'49		
retrograde	-8452 Oct 10 j 18:02	5°♉21'51		
opposition	-8452 Dec 23 j 12:31	3°♉19'59	0°22'04	
min. Earth dist.	-8452 Dec 24 j 10:28	3°♉17'37	17.28272 AU	
direct	-8451 Mar 10 j 15:13	1°♉13'35		
evening set	-8451 Jun 14 j 19:46	4°♉45'07		
conjunction	-8451 Jun 30 j 22:51	5°♉46'10	0°22'14	
minimum elong	-8451 Jun 30 j 22:51	5°♉46'10	0°22'29	
max. Earth dist.	-8451 Jun 30 j 00:14	5°♉42'34	19.29109 AU	
morning rise	-8451 Jul 16 j 21:42	6°♉46'36		
retrograde	-8451 Oct 15 j 18:34	10°♉08'34		
opposition	-8451 Dec 28 j 16:06	8°♉06'47	0°27'23	
min. Earth dist.	-8451 Dec 29 j 11:28	8°♉04'43	17.30161 AU	
direct	-8450 Mar 15 j 20:52	6°♉00'38		
evening set	-8450 Jun 19 j 21:37	9°♉31'46		
conjunction	-8450 Jul 05 j 23:19	10°♉32'36	0°26'55	
minimum elong	-8450 Jul 05 j 23:19	10°♉32'36	0°27'13	
max. Earth dist.	-8450 Jul 05 j 02:39	10°♉29'19	19.31324 AU	
morning rise	-8450 Jul 21 j 20:59	11°♉32'51		
retrograde	-8450 Oct 20 j 17:58	14°♉54'42		
opposition	-8449 Jan 02 j 19:42	12°♉53'03	0°32'31	
min. Earth dist.	-8449 Jan 03 j 13:46	12°♉51'07	17.32687 AU	
direct	-8449 Mar 20 j 23:59	10°♉47'10		
evening set	-8449 Jun 24 j 22:50	14°♉17'49		
	-8449 Jul 06 j 03:22	15°♉		
conjunction	-8449 Jul 10 j 23:13	15°♉18'25	0°31'24	
minimum elong	-8449 Jul 10 j 23:13	15°♉18'25	0°31'44	
max. Earth dist.	-8449 Jul 10 j 05:06	15°♉15'32	19.34146 AU	
morning rise	-8449 Jul 26 j 19:45	16°♉18'27		
retrograde	-8449 Oct 25 j 19:19	19°♉40'09		
opposition	-8448 Jan 07 j 23:25	17°♉38'38	0°37'24	
min. Earth dist.	-8448 Jan 08 j 14:34	17°♉37'01	17.35768 AU	
direct	-8448 Mar 25 j 05:25	15°♉33'04		
evening set	-8448 Jun 28 j 23:20	19°♉03'05		
conjunction	-8448 Jul 14 j 22:24	20°♉03'26	0°35'40	
minimum elong	-8448 Jul 14 j 22:24	20°♉03'26	0°36'03	
max. Earth dist.	-8448 Jul 14 j 06:45	20°♉00'57	19.37482 AU	
morning rise	-8448 Jul 30 j 17:45	21°♉03'16		
retrograde	-8448 Oct 29 j 18:12	24°♉24'45		
opposition	-8447 Jan 12 j 03:20	22°♉23'22	0°42'01	
min. Earth dist.	-8447 Jan 12 j 17:16	22°♉21'53	17.39352 AU	
direct	-8447 Mar 30 j 08:03	20°♉18'08		
evening set	-8447 Jul 03 j 23:13	23°♉47'25		
conjunction	-8447 Jul 19 j 20:58	24°♉47'30	0°39'40	
minimum elong	-8447 Jul 19 j 20:58	24°♉47'30	0°40'05	
max. Earth dist.	-8447 Jul 19 j 07:25	24°♉45'21	19.41295 AU	
morning rise	-8447 Aug 04 j 15:22	25°♉47'05		
retrograde	-8447 Nov 03 j 19:01	29°♉08'20		
opposition	-8446 Jan 17 j 06:50	27°♉07'03	0°46'20	
min. Earth dist.	-8446 Jan 17 j 17:37	27°♉05'55	17.43367 AU	
direct	-8446 Apr 04 j 13:06	25°♉02'09		
evening set	-8446 Jul 08 j 22:11	28°♉30'35		
conjunction	-8446 Jul 24 j 18:50	29°♉30'24	0°43'23	
minimum elong	-8446 Jul 24 j 18:49	29°♉30'24	0°43'49	
max. Earth dist.	-8446 Jul 24 j 08:05	29°♉28'42	19.45497 AU	

	-8446 Aug 01 j 13:57	0°♊		
morning rise	-8446 Aug 09 j 12:09	0°♊29'44		
retrograde	-8446 Nov 08 j 17:04	3°♊50'41		
opposition	-8445 Jan 22 j 10:20	1°♊49'31	0°50'18	
min. Earth dist.	-8445 Jan 22 j 19:59	1°♊48'29	17.47750 AU	
	-8445 Mar 16 j 07:25	30°℞♉		
direct	-8445 Apr 09 j 15:24	29°♉44'57		
	-8445 May 03 j 16:46	0°♊		
evening set	-8445 Jul 13 j 20:27	3°♊12'27		
conjunction	-8445 Jul 29 j 15:50	4°♊11'57	0°46'48	
minimum elong	-8445 Jul 29 j 15:50	4°♊11'57	0°47'16	
max. Earth dist.	-8445 Jul 29 j 06:48	4°♊10'32	19.50050 AU	
morning rise	-8445 Aug 14 j 08:22	5°♊11'03		
retrograde	-8445 Nov 13 j 16:33	8°♊31'39		
opposition	-8444 Jan 27 j 13:22	6°♊30'33	0°53'55	
min. Earth dist.	-8444 Jan 27 j 19:44	6°♊29'53	17.52455 AU	
direct	-8444 Apr 13 j 20:03	4°♊26'19		
evening set	-8444 Jul 17 j 17:46	7°♊52'47		
conjunction	-8444 Aug 02 j 12:11	8°♊52'01	0°49'53	
minimum elong	-8444 Aug 02 j 12:10	8°♊52'01	0°50'22	
max. Earth dist.	-8444 Aug 02 j 06:21	8°♊51'06	19.54904 AU	
morning rise	-8444 Aug 18 j 03:46	9°♊50'51		
retrograde	-8444 Nov 17 j 13:30	13°♊11'03		
opposition	-8443 Jan 31 j 16:15	11°♊10'01	0°57'09	
min. Earth dist.	-8443 Jan 31 j 21:15	11°♊09'29	17.57459 AU	
direct	-8443 Apr 18 j 21:58	9°♊06'08		
evening set	-8443 Jul 22 j 14:05	12°♊31'28		
conjunction	-8443 Aug 07 j 07:23	13°♊30'23	0°52'37	
minimum elong	-8443 Aug 07 j 07:23	13°♊30'23	0°53'08	
max. Earth dist.	-8443 Aug 07 j 03:11	13°♊29'43	19.60059 AU	
morning rise	-8443 Aug 22 j 22:26	14°♊28'58		
retrograde	-8443 Nov 22 j 11:32	17°♊48'44		
opposition	-8442 Feb 05 j 18:24	15°♊47'44	0°59'59	
min. Earth dist.	-8442 Feb 05 j 20:05	15°♊47'34	17.62753 AU	
direct	-8442 Apr 24 j 01:04	13°♊44'10		
evening set	-8442 Jul 27 j 09:23	17°♊08'20		
conjunction	-8442 Aug 12 j 01:56	18°♊06'57	0°54'59	
minimum elong	-8442 Aug 12 j 01:56	18°♊06'57	0°55'31	
max. Earth dist.	-8442 Aug 12 j 01:16	18°♊06'51	19.65490 AU	
morning rise	-8442 Aug 27 j 16:13	19°♊05'15		
retrograde	-8442 Nov 27 j 07:07	22°♊24'33		
opposition	-8441 Feb 10 j 19:56	20°♊23'35	1°02'25	
min. Earth dist.	-8441 Feb 10 j 20:00	20°♊23'35	17.68326 AU	
direct	-8441 Apr 29 j 02:14	18°♊20'22		
evening set	-8441 Aug 01 j 03:49	21°♊43'17		
conjunction	-8441 Aug 16 j 19:22	22°♊41'35	0°57'00	
minimum elong	-8441 Aug 16 j 19:22	22°♊41'35	0°57'32	
max. Earth dist.	-8441 Aug 16 j 20:19	22°♊41'44	19.71217 AU	
morning rise	-8441 Sep 01 j 09:16	23°♊39'38		
retrograde	-8441 Dec 02 j 03:13	26°♊58'26		
opposition	-8440 Feb 15 j 20:56	24°♊57'30	1°04'26	
min. Earth dist.	-8440 Feb 15 j 17:38	24°♊57'50	17.74209 AU	
direct	-8440 May 03 j 03:08	22°♊54'37		
evening set	-8440 Aug 04 j 20:59	26°♊16'15		
conjunction	-8440 Aug 20 j 11:56	27°♊14'15	0°58'38	
minimum elong	-8440 Aug 20 j 11:56	27°♊14'15	0°59'11	
max. Earth dist.	-8440 Aug 20 j 16:47	27°♊15'00	19.77247 AU	
morning rise	-8440 Sep 05 j 01:14	28°♊12'02		
	-8440 Oct 07 j 13:35	0°♋		
retrograde	-8440 Dec 05 j 21:50	1°♋30'19		
	-8439 Feb 07 j 11:06	30°℞♊		

Attention, astronomical year style is used: The year -8439 in astronomical counting style is the year 8440 BCE in historical counting style.

opposition	-8439 Feb 19 j 21:21	29°♊29'26	1°06'01
min. Earth dist.	-8439 Feb 19 j 15:52	29°♊30'00	17.80393 AU
direct	-8439 May 08 j 02:42	27°♊26'55	
	-8439 Jul 27 j 04:26	0°♋	
evening set	-8439 Aug 09 j 13:27	0°♋47'15	
conjunction	-8439 Aug 25 j 03:34	1°♋44'56	0°59'54
minimum elong	-8439 Aug 25 j 03:34	1°♋44'56	1°00'26
max. Earth dist.	-8439 Aug 25 j 10:05	1°♋45'57	19.83588 AU
morning rise	-8439 Sep 09 j 16:43	2°♋42'28	
retrograde	-8439 Dec 10 j 16:25	6°♋00'13	
opposition	-8438 Feb 24 j 20:47	3°♋59'25	1°07'12
min. Earth dist.	-8438 Feb 24 j 12:13	4°♋00'18	17.86893 AU
direct	-8438 May 13 j 00:44	1°♋57'17	
evening set	-8438 Aug 14 j 04:46	5°♋16'19	
conjunction	-8438 Aug 29 j 18:32	6°♋13'43	1°00'48
minimum elong	-8438 Aug 29 j 18:32	6°♋13'43	1°01'21
max. Earth dist.	-8438 Aug 30 j 04:47	6°♋15'18	19.90221 AU
morning rise	-8438 Sep 14 j 07:16	7°♋11'00	
retrograde	-8438 Dec 15 j 10:00	10°♋28'12	
opposition	-8437 Mar 01 j 19:39	8°♋27'31	1°07'58
min. Earth dist.	-8437 Mar 01 j 08:42	8°♋28'39	17.93648 AU
direct	-8437 May 17 j 21:53	6°♋25'50	
evening set	-8437 Aug 18 j 19:18	9°♋43'31	
conjunction	-8437 Sep 03 j 08:25	10°♋40'37	1°01'19
minimum elong	-8437 Sep 03 j 08:25	10°♋40'37	1°01'53
max. Earth dist.	-8437 Sep 03 j 20:14	10°♋42'26	19.97094 AU
morning rise	-8437 Sep 18 j 21:10	11°♋37'40	
retrograde	-8437 Dec 20 j 03:51	14°♋54'21	
opposition	-8436 Mar 05 j 17:49	12°♋53'47	1°08'19
min. Earth dist.	-8436 Mar 05 j 04:15	12°♋55'10	18.00628 AU
direct	-8436 May 21 j 17:47	10°♋52'32	
evening set	-8436 Aug 22 j 08:52	14°♋08'54	
conjunction	-8436 Sep 06 j 21:48	15°♋05'44	1°01'29
minimum elong	-8436 Sep 06 j 21:48	15°♋05'44	1°02'02
max. Earth dist.	-8436 Sep 07 j 13:06	15°♋08'05	20.04152 AU
morning rise	-8436 Sep 22 j 10:22	16°♋02'32	
retrograde	-8436 Dec 23 j 20:51	19°♋18'40	
opposition	-8435 Mar 10 j 15:12	17°♋18'15	1°08'16
min. Earth dist.	-8435 Mar 09 j 23:14	17°♋19'53	18.07742 AU
direct	-8435 May 26 j 12:54	15°♋17'29	
evening set	-8435 Aug 26 j 21:44	18°♋32'30	
conjunction	-8435 Sep 11 j 10:15	19°♋29'04	1°01'16
minimum elong	-8435 Sep 11 j 10:15	19°♋29'04	1°01'50
max. Earth dist.	-8435 Sep 12 j 02:50	19°♋31'36	20.11308 AU
morning rise	-8435 Sep 26 j 23:03	20°♋25'39	
retrograde	-8435 Dec 28 j 13:43	23°♋41'14	
opposition	-8434 Mar 15 j 11:50	21°♋40'57	1°07'49
min. Earth dist.	-8434 Mar 14 j 18:01	21°♋42'46	18.14927 AU
direct	-8434 May 31 j 06:56	19°♋40'37	
evening set	-8434 Aug 31 j 09:44	22°♋54'19	
conjunction	-8434 Sep 15 j 22:13	23°♋50'38	1°00'43
minimum elong	-8434 Sep 15 j 22:13	23°♋50'38	1°01'14
max. Earth dist.	-8434 Sep 16 j 17:46	23°♋53'36	20.18483 AU
morning rise	-8434 Oct 01 j 10:58	24°♋47'00	
retrograde	-8433 Jan 02 j 06:01	28°♋02'00	
min. Earth dist.	-8433 Mar 19 j 11:29	26°♋03'54	18.22076 AU
opposition	-8433 Mar 20 j 07:32	26°♋01'52	1°06'58
direct	-8433 Jun 05 j 01:03	24°♋01'58	
evening set	-8433 Sep 04 j 21:10	27°♋14'22	
conjunction	-8433 Sep 20 j 09:24	28°♋10'25	0°59'48
minimum elong	-8433 Sep 20 j 09:24	28°♋10'25	1°00'20
max. Earth dist.	-8433 Sep 21 j 05:56	28°♋13'31	20.25593 AU
morning rise	-8433 Oct 05 j 22:31	29°♋06'35	
	-8433 Oct 21 j 12:33	0°♌	
retrograde	-8432 Jan 06 j 21:17	2°♌21'02	
min. Earth dist.	-8432 Mar 23 j 05:24	0°♌23'09	18.29143 AU
opposition	-8432 Mar 24 j 02:42	0°♌20'59	1°05'45
	-8432 Apr 01 j 18:31	30°℞♋	
direct	-8432 Jun 08 j 17:21	28°♋21'30	
	-8432 Aug 10 j 23:38	0°♌	
evening set	-8432 Sep 08 j 07:38	1°♌32'35	
conjunction	-8432 Sep 23 j 20:02	2°♌28'24	0°58'34
minimum elong	-8432 Sep 23 j 20:02	2°♌28'24	0°59'03
max. Earth dist.	-8432 Sep 24 j 19:05	2°♌31'53	20.32579 AU
morning rise	-8432 Oct 09 j 09:21	3°♌24'21	
retrograde	-8431 Jan 10 j 12:58	6°♌38'14	
opposition	-8431 Mar 28 j 20:53	4°♌38'16	1°04'09
min. Earth dist.	-8431 Mar 27 j 21:28	4°♌40'38	18.36034 AU
direct	-8431 Jun 13 j 10:27	2°♌39'09	
evening set	-8431 Sep 12 j 17:39	5°♌48'57	
conjunction	-8431 Sep 28 j 06:01	6°♌44'32	0°57'00
minimum elong	-8431 Sep 28 j 06:01	6°♌44'32	0°57'29
max. Earth dist.	-8431 Sep 29 j 05:46	6°♌48'06	20.39364 AU
morning rise	-8431 Oct 13 j 19:53	7°♌40'19	
retrograde	-8430 Jan 15 j 01:56	10°♌53'36	
opposition	-8430 Apr 02 j 14:08	8°♌53'41	1°02'14
min. Earth dist.	-8430 Apr 01 j 14:08	8°♌56'07	18.42716 AU
direct	-8430 Jun 18 j 00:59	6°♌54'54	
evening set	-8430 Sep 17 j 02:46	10°♌03'26	
conjunction	-8430 Oct 02 j 15:30	10°♌58'49	0°55'08
minimum elong	-8430 Oct 02 j 15:30	10°♌58'49	0°55'36
max. Earth dist.	-8430 Oct 03 j 17:17	11°♌02'41	20.45923 AU
morning rise	-8430 Oct 18 j 05:43	11°♌54'25	
	-8429 Jan 02 j 19:19	15°♌	
retrograde	-8429 Jan 19 j 16:18	15°♌07'06	
	-8429 Feb 05 j 15:28	15°℞♌	
min. Earth dist.	-8429 Apr 06 j 04:30	13°♌09'51	18.49144 AU
opposition	-8429 Apr 07 j 06:31	13°♌07'13	0°59'59
direct	-8429 Jun 22 j 16:40	11°♌08'44	
evening set	-8429 Sep 21 j 11:10	14°♌16'01	
	-8429 Oct 03 j 20:57	15°♌	
conjunction	-8429 Oct 07 j 00:02	15°♌11'12	0°52'59
minimum elong	-8429 Oct 07 j 00:02	15°♌11'12	0°53'26
max. Earth dist.	-8429 Oct 08 j 02:34	15°♌15'09	20.52226 AU
morning rise	-8429 Oct 22 j 14:56	16°♌06'39	
retrograde	-8428 Jan 24 j 03:26	19°♌18'45	
opposition	-8428 Apr 10 j 22:13	17°♌18'52	0°57'25
min. Earth dist.	-8428 Apr 09 j 19:50	17°♌21'31	18.55337 AU
direct	-8428 Jun 26 j 05:07	15°♌20'37	
evening set	-8428 Sep 24 j 18:51	18°♌26'43	
conjunction	-8428 Oct 10 j 08:13	19°♌21'42	0°50'35
minimum elong	-8428 Oct 10 j 08:14	19°♌21'42	0°51'00
max. Earth dist.	-8428 Oct 11 j 12:41	19°♌25'56	20.58305 AU
morning rise	-8428 Oct 25 j 23:40	20°♌17'00	
retrograde	-8427 Jan 27 j 16:04	23°♌28'32	
min. Earth dist.	-8427 Apr 14 j 08:18	21°♌31'29	18.61302 AU
opposition	-8427 Apr 15 j 12:43	21°♌28'38	0°54'35
direct	-8427 Jun 30 j 19:09	19°♌30'38	
evening set	-8427 Sep 29 j 02:01	22°♌35'35	
conjunction	-8427 Oct 14 j 15:43	23°♌30'25	0°47'56
minimum elong	-8427 Oct 14 j 15:43	23°♌30'25	0°48'18

Attention, astronomical year style is used: The year -8427 in astronomical counting style is the year 8428 BCE in historical counting style.

max. Earth dist.	-8427 Oct 15 j 20:53	23°♌34'43	20.64160 AU
morning rise	-8427 Oct 30 j 07:58	24°♌25'34	
retrograde	-8426 Feb 01 j 02:12	27°♌36'33	
min. Earth dist.	-8426 Apr 18 j 21:59	25°♌39'31	18.67068 AU
opposition	-8426 Apr 20 j 02:33	25°♌36'38	0°51'30
direct	-8426 Jul 05 j 05:20	23°♌38'53	
evening set	-8426 Oct 03 j 08:29	26°♌42'46	
conjunction	-8426 Oct 18 j 22:46	27°♌37'26	0°45'03
minimum elong	-8426 Oct 18 j 22:46	27°♌37'26	0°45'24
max. Earth dist.	-8426 Oct 20 j 05:38	27°♌41'58	20.69825 AU
morning rise	-8426 Nov 03 j 15:38	28°♌32'28	
	-8426 Dec 01 j 00:18	0°♍	
retrograde	-8425 Feb 05 j 13:28	1°♍42'56	
	-8425 Apr 17 j 14:12	30°℞♌	
min. Earth dist.	-8425 Apr 23 j 08:45	29°♌46'07	18.72634 AU
opposition	-8425 Apr 24 j 15:22	29°♌43'03	0°48'10
direct	-8425 Jul 09 j 17:25	27°♌45'32	
	-8425 Sep 23 j 00:36	0°♍	
evening set	-8425 Oct 07 j 14:37	0°♍48'25	
conjunction	-8425 Oct 23 j 05:21	1°♍42'57	0°41'57
minimum elong	-8425 Oct 23 j 05:21	1°♍42'57	0°42'16
max. Earth dist.	-8425 Oct 24 j 12:49	1°♍47'34	20.75292 AU
morning rise	-8425 Nov 07 j 23:07	2°♍37'54	
retrograde	-8424 Feb 09 j 23:05	5°♍47'53	
min. Earth dist.	-8424 Apr 26 j 21:06	3°♍51'06	18.78010 AU
opposition	-8424 Apr 28 j 03:38	3°♍48'02	0°44'37
direct	-8424 Jul 13 j 01:51	1°♍50'47	
evening set	-8424 Oct 10 j 20:08	4°♍52'44	
conjunction	-8424 Oct 26 j 11:39	5°♍47'09	0°38'40
minimum elong	-8424 Oct 26 j 11:39	5°♍47'09	0°38'58
max. Earth dist.	-8424 Oct 27 j 20:29	5°♍51'57	20.80562 AU
morning rise	-8424 Nov 11 j 06:12	6°♍42'01	
retrograde	-8423 Feb 13 j 09:41	9°♍51'34	
min. Earth dist.	-8423 May 01 j 06:43	7°♍55'01	18.83154 AU
opposition	-8423 May 02 j 14:59	7°♍51'47	0°40'52
direct	-8423 Jul 17 j 11:59	5°♍54'48	
evening set	-8423 Oct 15 j 01:34	8°♍55'54	
conjunction	-8423 Oct 30 j 17:39	9°♍50'14	0°35'13
minimum elong	-8423 Oct 30 j 17:40	9°♍50'14	0°35'27
max. Earth dist.	-8423 Nov 01 j 02:45	9°♍55'03	20.85570 AU
morning rise	-8423 Nov 15 j 13:12	10°♍45'01	
retrograde	-8422 Feb 17 j 18:36	13°♍54'11	
min. Earth dist.	-8422 May 05 j 18:01	11°♍57'39	18.88024 AU
opposition	-8422 May 07 j 01:40	11°♍54'28	0°36'55
direct	-8422 Jul 21 j 19:00	9°♍57'46	
evening set	-8422 Oct 19 j 06:34	12°♍58'05	
conjunction	-8422 Nov 03 j 23:31	13°♍52'20	0°31'35
minimum elong	-8422 Nov 03 j 23:31	13°♍52'20	0°31'48
max. Earth dist.	-8422 Nov 05 j 09:30	13°♍57'16	20.90290 AU
morning rise	-8422 Nov 19 j 19:53	14°♍47'04	
retrograde	-8421 Feb 22 j 04:32	17°♍55'52	
min. Earth dist.	-8421 May 10 j 02:47	15°♍59'34	18.92568 AU
opposition	-8421 May 11 j 11:44	15°♍56'16	0°32'49
direct	-8421 Jul 26 j 03:36	13°♍59'48	
evening set	-8421 Oct 23 j 11:24	16°♍59'26	
conjunction	-8421 Nov 08 j 05:02	17°♍53'37	0°27'49
minimum elong	-8421 Nov 08 j 05:02	17°♍53'37	0°28'00
max. Earth dist.	-8421 Nov 09 j 15:00	17°♍58'31	20.94645 AU
morning rise	-8421 Nov 24 j 02:28	18°♍48'19	
retrograde	-8420 Feb 26 j 12:50	21°♍56'48	
opposition	-8420 May 14 j 21:24	19°♍57'16	0°28'33

min. Earth dist.	-8420 May 13 j 13:34	20°♍00'27	18.96728 AU
direct	-8420 Jul 29 j 09:26	18°♍01'02	
evening set	-8420 Oct 26 j 16:11	21°♍00'02	
conjunction	-8420 Nov 11 j 10:46	21°♍54'10	0°23'55
minimum elong	-8420 Nov 11 j 10:46	21°♍54'10	0°24'03
max. Earth dist.	-8420 Nov 12 j 21:03	21°♍59'07	20.98595 AU
morning rise	-8420 Nov 27 j 09:07	22°♍48'51	
retrograde	-8419 Mar 01 j 22:29	25°♍57'02	
min. Earth dist.	-8419 May 17 j 21:40	24°♍00'50	19.00442 AU
opposition	-8419 May 19 j 06:12	23°♍57'35	0°24'10
direct	-8419 Aug 02 j 17:02	22°♍01'31	
evening set	-8419 Oct 30 j 21:02	24°♍59'58	
conjunction	-8419 Nov 15 j 16:23	25°♍54'05	0°19'54
minimum elong	-8419 Nov 15 j 16:23	25°♍54'05	0°20'01
max. Earth dist.	-8419 Nov 17 j 02:03	25°♍58'55	21.02055 AU
morning rise	-8419 Dec 01 j 15:49	26°♍48'45	
retrograde	-8418 Mar 06 j 05:56	29°♍56'40	
min. Earth dist.	-8418 May 22 j 07:49	28°♍00'22	19.03648 AU
opposition	-8418 May 23 j 14:45	27°♍57'16	0°19'41
direct	-8418 Aug 06 j 21:57	26°♍01'21	
evening set	-8418 Nov 04 j 01:36	28°♍59'18	
conjunction	-8418 Nov 19 j 21:57	29°♍53'24	0°15'49
minimum elong	-8418 Nov 19 j 21:57	29°♍53'24	0°15'53
behind sun begin	-8418 Nov 19 j 20:49	29°♍53'14	
behind sun end	-8418 Nov 19 j 23:05	29°♍53'33	
max. Earth dist.	-8418 Nov 21 j 07:25	29°♍58'11	21.04996 AU
	-8418 Nov 21 j 20:01	0°♎	
morning rise	-8418 Dec 05 j 22:20	0°♎48'04	
retrograde	-8417 Mar 10 j 15:21	3°♎55'44	
opposition	-8417 May 27 j 22:42	1°♎56'20	0°15'06
min. Earth dist.	-8417 May 26 j 15:23	1°♎59'28	19.06306 AU
direct	-8417 Aug 11 j 04:46	0°♎00'31	
evening set	-8417 Nov 08 j 06:20	2°♎58'02	
conjunction	-8417 Nov 24 j 03:33	3°♎52'08	0°11'40
minimum elong	-8417 Nov 24 j 03:32	3°♎52'08	0°11'43
behind sun begin	-8417 Nov 23 j 22:51	3°♎51'29	
behind sun end	-8417 Nov 24 j 08:13	3°♎52'47	
max. Earth dist.	-8417 Nov 25 j 12:03	3°♎56'46	21.07372 AU
morning rise	-8417 Dec 10 j 05:03	4°♎46'49	
retrograde	-8416 Mar 13 j 22:05	7°♎54'15	
min. Earth dist.	-8416 May 30 j 00:47	5°♎57'47	19.08405 AU
opposition	-8416 May 31 j 06:15	5°♎54'50	0°10'29
direct	-8416 Aug 14 j 09:21	3°♎59'03	
evening set	-8416 Nov 11 j 10:53	6°♎56'10	
conjunction	-8416 Nov 27 j 09:13	7°♎50'17	0°07'29
minimum elong	-8416 Nov 27 j 09:13	7°♎50'17	0°07'29
behind sun begin	-8416 Nov 27 j 03:12	7°♎49'27	
behind sun end	-8416 Nov 27 j 15:15	7°♎51'07	
max. Earth dist.	-8416 Nov 28 j 17:11	7°♎54'51	21.09206 AU
morning rise	-8416 Dec 13 j 11:46	8°♎45'00	
retrograde	-8415 Mar 18 j 07:02	11°♎52'13	
min. Earth dist.	-8415 Jun 03 j 07:37	9°♎55'43	19.09961 AU
opposition	-8415 Jun 04 j 13:10	9°♎52'44	0°05'49
direct	-8415 Aug 18 j 15:12	7°♎56'57	
evening set	-8415 Nov 15 j 15:37	10°♎53'46	
conjunction	-8415 Dec 01 j 14:49	11°♎47'55	0°03'17
minimum elong	-8415 Dec 01 j 14:50	11°♎47'55	0°03'13
behind sun begin	-8415 Dec 01 j 08:14	11°♎47'00	
behind sun end	-8415 Dec 01 j 21:25	11°♎48'49	
max. Earth dist.	-8415 Dec 02 j 21:44	11°♎52'18	21.10498 AU
morning rise	-8415 Dec 17 j 18:29	12°♎42'40	

Attention, astronomical year style is used: The year -8414 in astronomical counting style is the year 8415 BCE in historical counting style.

retrograde	-8414 Mar 22 j 13:20	15°♎49'41	
opposition	-8414 Jun 08 j 19:39	13°♎50'08	0°01'09
min. Earth dist.	-8414 Jun 07 j 16:02	13°♎52'55	19.11009 AU
direct	-8414 Aug 22 j 19:22	11°♎54'18	
desc. node	-8414 Sep 05 j 04:53	11°♎58'57	
evening set	-8414 Nov 19 j 20:13	14°♎50'53	
conjunction	-8414 Dec 05 j 20:31	15°♎45'04	-0°01'04
minimum elong	-8414 Dec 05 j 20:32	15°♎45'04	0°01'09
behind sun begin	-8414 Dec 05 j 13:55	15°♎44'10	
behind sun end	-8414 Dec 06 j 03:10	15°♎45'59	
max. Earth dist.	-8414 Dec 07 j 02:52	15°♎49'23	21.11326 AU
morning rise	-8414 Dec 22 j 01:11	16°♎39'53	
retrograde	-8413 Mar 26 j 21:57	19°♎46'45	
min. Earth dist.	-8413 Jun 11 j 21:58	17°♎49'55	19.11614 AU
opposition	-8413 Jun 13 j 01:42	17°♎47'07	-0°03'32
direct	-8413 Aug 27 j 00:25	15°♎51'13	
evening set	-8413 Nov 24 j 01:00	18°♎47'38	
conjunction	-8413 Dec 10 j 02:17	19°♎41'54	-0°05'18
minimum elong	-8413 Dec 10 j 02:16	19°♎41'54	0°05'26
behind sun begin	-8413 Dec 09 j 19:52	19°♎41'01	
behind sun end	-8413 Dec 10 j 08:41	19°♎42'47	
max. Earth dist.	-8413 Dec 11 j 07:33	19°♎46'03	21.11715 AU
morning rise	-8413 Dec 26 j 08:03	20°♎36'47	
retrograde	-8412 Mar 30 j 04:12	23°♎43'32	
min. Earth dist.	-8412 Jun 15 j 05:46	21°♎46'27	19.11802 AU
opposition	-8412 Jun 16 j 07:35	21°♎43'51	-0°08'10
direct	-8412 Aug 30 j 04:01	19°♎47'52	
evening set	-8412 Nov 27 j 06:01	22°♎44'13	
conjunction	-8412 Dec 13 j 08:26	23°♎38'34	-0°09'28
minimum elong	-8412 Dec 13 j 08:26	23°♎38'34	0°09'37
behind sun begin	-8412 Dec 13 j 02:57	23°♎37'49	
behind sun end	-8412 Dec 13 j 13:55	23°♎39'19	
max. Earth dist.	-8412 Dec 14 j 12:54	23°♎42'36	21.11715 AU
morning rise	-8412 Dec 29 j 15:12	24°♎33'32	
retrograde	-8411 Apr 03 j 13:16	27°♎40'13	
min. Earth dist.	-8411 Jun 19 j 11:11	25°♎43'04	19.11604 AU
opposition	-8411 Jun 20 j 12:54	25°♎40'28	-0°12'47
direct	-8411 Sep 03 j 08:52	23°♎44'25	
evening set	-8411 Dec 01 j 11:22	26°♎40'48	
conjunction	-8411 Dec 17 j 14:45	27°♎35'15	-0°13'36
minimum elong	-8411 Dec 17 j 14:45	27°♎35'15	0°13'48
behind sun begin	-8411 Dec 17 j 11:17	27°♎34'46	
behind sun end	-8411 Dec 17 j 18:13	27°♎35'44	
max. Earth dist.	-8411 Dec 18 j 17:56	27°♎39'06	21.11321 AU
morning rise	-8410 Jan 02 j 22:35	28°♎30'19	
	-8410 Feb 01 j 04:53	0°♏	
retrograde	-8410 Apr 07 j 19:28	1°♏36'59	
	-8410 Jun 15 j 07:51	30°℞♎	
opposition	-8410 Jun 24 j 18:18	29°♎37'12	-0°17'20
min. Earth dist.	-8410 Jun 23 j 18:39	29°♎39'36	19.11022 AU
direct	-8410 Sep 07 j 11:40	27°♎41'05	
	-8410 Nov 24 j 01:44	0°♏	
evening set	-8410 Dec 05 j 16:47	0°♏37'34	
conjunction	-8410 Dec 21 j 21:17	1°♏32'08	-0°17'41
minimum elong	-8410 Dec 21 j 21:17	1°♏32'08	0°17'54
max. Earth dist.	-8410 Dec 22 j 23:28	1°♏35'50	21.10559 AU
morning rise	-8409 Jan 07 j 06:06	2°♏27'19	
retrograde	-8409 Apr 12 j 05:05	5°♏34'02	
opposition	-8409 Jun 28 j 23:29	3°♏34'14	-0°21'48
min. Earth dist.	-8409 Jun 28 j 00:06	3°♏36'36	19.10061 AU
direct	-8409 Sep 11 j 16:42	1°♏38'01	
evening set	-8409 Dec 09 j 22:52	4°♏34'43	

conjunction	-8409 Dec 26 j 04:21	5°♏29'25	-0°21'41
minimum elong	-8409 Dec 26 j 04:21	5°♏29'25	0°21'57
max. Earth dist.	-8409 Dec 27 j 05:02	5°♏32'54	21.09396 AU
morning rise	-8408 Jan 11 j 14:12	6°♏24'44	
retrograde	-8408 Apr 15 j 11:45	9°♏31'32	
min. Earth dist.	-8408 Jul 01 j 07:40	7°♏33'51	19.08693 AU
opposition	-8408 Jul 02 j 04:37	7°♏31'43	-0°26'12
direct	-8408 Sep 14 j 19:13	5°♏35'26	
evening set	-8408 Dec 13 j 05:23	8°♏32'26	
conjunction	-8408 Dec 29 j 12:01	9°♏27'16	-0°25'36
minimum elong	-8408 Dec 29 j 12:01	9°♏27'16	0°25'54
max. Earth dist.	-8408 Dec 30 j 11:10	9°♏30'33	21.07828 AU
morning rise	-8407 Jan 14 j 22:49	10°♏22'43	
retrograde	-8407 Apr 19 j 21:36	13°♏29'39	
opposition	-8407 Jul 06 j 09:41	11°♏29'51	-0°30'28
min. Earth dist.	-8407 Jul 05 j 13:31	11°♏31'54	19.06895 AU
direct	-8407 Sep 19 j 00:33	9°♏33'27	
evening set	-8407 Dec 17 j 12:32	12°♏30'50	
conjunction	-8406 Jan 02 j 20:05	13°♏25'51	-0°29'25
minimum elong	-8406 Jan 02 j 20:05	13°♏25'51	0°29'45
max. Earth dist.	-8406 Jan 03 j 17:19	13°♏28'51	21.05788 AU
morning rise	-8406 Jan 19 j 07:48	14°♏21'27	
	-8406 Jan 31 j 05:59	15°♏	
retrograde	-8406 Apr 24 j 05:10	17°♏28'33	
opposition	-8406 Jul 10 j 14:54	15°♏28'45	-0°34'37
min. Earth dist.	-8406 Jul 09 j 21:29	15°♏30'32	19.04616 AU
	-8406 Jul 22 j 11:17	15°℞♏	
direct	-8406 Sep 23 j 03:38	13°♏32'13	
	-8406 Nov 22 j 07:54	15°♏	
evening set	-8406 Dec 21 j 20:12	16°♏30'04	
conjunction	-8405 Jan 07 j 04:50	17°♏25'15	-0°33'05
minimum elong	-8405 Jan 07 j 04:50	17°♏25'15	0°33'28
max. Earth dist.	-8405 Jan 08 j 00:00	17°♏27'58	21.03271 AU
morning rise	-8405 Jan 23 j 17:25	18°♏21'01	
retrograde	-8405 Apr 28 j 15:13	21°♏28'20	
opposition	-8405 Jul 14 j 20:07	19°♏28'31	-0°38'37
min. Earth dist.	-8405 Jul 14 j 03:52	19°♏30'11	19.01836 AU
direct	-8405 Sep 27 j 09:06	17°♏31'48	
evening set	-8405 Dec 26 j 04:33	20°♏30'11	
conjunction	-8404 Jan 11 j 14:10	21°♏25'34	-0°36'37
minimum elong	-8404 Jan 11 j 14:10	21°♏25'34	0°37'00
max. Earth dist.	-8404 Jan 12 j 06:59	21°♏27'56	21.00215 AU
morning rise	-8404 Jan 28 j 03:38	22°♏21'30	
retrograde	-8404 May 01 j 23:51	25°♏29'03	
opposition	-8404 Jul 18 j 01:40	23°♏29'11	-0°42'26
min. Earth dist.	-8404 Jul 17 j 12:25	23°♏30'32	18.98507 AU
direct	-8404 Sep 30 j 13:20	21°♏32'14	
evening set	-8404 Dec 29 j 13:34	24°♏31'12	
conjunction	-8403 Jan 15 j 00:13	25°♏26'48	-0°39'59
minimum elong	-8403 Jan 15 j 00:12	25°♏26'48	0°40'24
max. Earth dist.	-8403 Jan 15 j 14:27	25°♏28'49	20.96625 AU
morning rise	-8403 Jan 31 j 14:30	26°♏22'55	
retrograde	-8403 May 06 j 10:06	29°♏30'42	
opposition	-8403 Jul 22 j 07:07	27°♏30'45	-0°46'03
min. Earth dist.	-8403 Jul 21 j 19:15	27°♏31'59	18.94643 AU
direct	-8403 Oct 04 j 19:11	25°♏33'32	
evening set	-8402 Jan 02 j 23:11	28°♏33'10	
conjunction	-8402 Jan 19 j 10:45	29°♏28'58	-0°43'09
minimum elong	-8402 Jan 19 j 10:45	29°♏28'58	0°43'35
max. Earth dist.	-8402 Jan 19 j 22:34	29°♏30'38	20.92499 AU
	-8402 Jan 28 j 13:22	0°♐	

Attention, astronomical year style is used: The year -8402 in astronomical counting style is the year 8403 BCE in historical counting style.

morning rise	-8402 Feb	05 j 01:47	0°♐25'17	
retrograde	-8402 May	10 j 19:04	3°♐33'20	
opposition	-8402 Jul	26 j 12:58	1°♐33'17	-0°49'27
min. Earth dist.	-8402 Jul	26 j 04:01	1°♐34'12	18.90272 AU
	-8402 Sep	08 j 00:28	30°♑♏	
direct	-8402 Oct	09 j 00:35	29°♏35'45	
	-8402 Nov	08 j 17:56	0°♐	
evening set	-8401 Jan	07 j 09:10	2°♐36'04	
conjunction	-8401 Jan	23 j 21:43	3°♐32'06	-0°46'06
minimum elong	-8401 Jan	23 j 21:43	3°♐32'06	0°46'34
max. Earth dist.	-8401 Jan	24 j 06:59	3°♐33'25	20.87913 AU
morning rise	-8401 Feb	09 j 13:32	4°♐28'37	
retrograde	-8401 May	15 j 05:42	7°♐36'59	
opposition	-8401 Jul	30 j 18:51	5°♐36'46	-0°52'37
min. Earth dist.	-8401 Jul	30 j 11:16	5°♐37'34	18.85468 AU
direct	-8401 Oct	13 j 07:13	3°♐38'53	
evening set	-8400 Jan	11 j 20:03	6°♐40'00	
conjunction	-8400 Jan	28 j 09:30	7°♐36'16	-0°48'51
minimum elong	-8400 Jan	28 j 09:29	7°♐36'16	0°49'20
max. Earth dist.	-8400 Jan	28 j 16:31	7°♐37'16	20.82905 AU
morning rise	-8400 Feb	14 j 01:57	8°♐32'59	
retrograde	-8400 May	18 j 15:01	11°♐41'39	
opposition	-8400 Aug	03 j 00:59	9°♐41'19	-0°55'31
min. Earth dist.	-8400 Aug	02 j 20:14	9°♐41'49	18.80281 AU
direct	-8400 Oct	16 j 13:19	7°♐43'04	
evening set	-8399 Jan	15 j 07:37	10°♐45'01	
conjunction	-8399 Jan	31 j 21:55	11°♐41'32	-0°51'21
minimum elong	-8399 Jan	31 j 21:54	11°♐41'32	0°51'51
max. Earth dist.	-8399 Feb	01 j 02:15	11°♐42'10	20.77565 AU
morning rise	-8399 Feb	17 j 15:02	12°♐38'28	
retrograde	-8399 May	23 j 02:26	15°♐47'31	
opposition	-8399 Aug	07 j 07:23	13°♐47'02	-0°58'10
min. Earth dist.	-8399 Aug	07 j 03:57	13°♐47'23	18.74794 AU
direct	-8399 Oct	20 j 21:14	11°♐48'23	