Attention, astronomical year style is used: The year -900 in astronomical counting style is the year 901 BCE in historical counting style.

retrograde	-900 Feb 22 j 20:09	6°♏23'31	
opposition	-900 May 03 j 04:40	3°♏07'04	2°21'18
min. Earth dist.	-900 May 03 j 11:13	3°♏05'52	9.13634 AU
	-900 Jun 27 j 19:13	30°℞♎	
direct	-900 Jul 13 j 12:56	29°♎48'13	
	-900 Jul 29 j 04:35	0°♏	
evening set	-900 Oct 23 j 05:47	6°♏47'54	
conjunction	-900 Nov 08 j 17:47	8°♏42'54	1°47'30
minimum elong	-900 Nov 08 j 17:49	8°♏42'55	1°47'30
max. Earth dist.	-900 Nov 08 j 09:40	8°♏40'31	11.13651 AU
morning rise	-900 Nov 25 j 04:50	10°♏37'40	
	-899 Jan 07 j 02:27	15°♏	
retrograde	-899 Mar 05 j 11:34	17°♏33'07	
	-899 May 05 j 02:13	15°℞♏	
opposition	-899 May 15 j 03:26	14°♏16'14	1°59'38
min. Earth dist.	-899 May 15 j 10:32	14°♏14'56	9.13251 AU
direct	-899 Jul 25 j 07:37	10°♏57'57	
	-899 Oct 07 j 05:13	15°♏	
evening set	-899 Nov 03 j 09:09	17°♏55'52	
conjunction	-899 Nov 19 j 21:26	19°♏51'10	1°27'47
minimum elong	-899 Nov 19 j 21:28	19°♏51'11	1°27'45
max. Earth dist.	-899 Nov 19 j 12:59	19°♏48'41	11.11974 AU
morning rise	-899 Dec 06 j 09:23	21°♏46'27	
retrograde	-898 Mar 17 j 08:24	28°♏44'58	
opposition	-898 May 27 j 03:21	25°♏27'25	1°33'23
min. Earth dist.	-898 May 27 j 11:03	25°♏26'00	9.10200 AU
direct	-898 Aug 06 j 00:58	22°♏09'27	
evening set	-898 Nov 14 j 13:29	29°♏07'12	
	-898 Nov 22 j 03:14	0°♐	
conjunction	-898 Dec 01 j 02:28	1°♐03'15	1°04'36
minimum elong	-898 Dec 01 j 02:30	1°♐03'15	1°04'34
max. Earth dist.	-898 Nov 30 j 16:44	1°♐00'23	11.07674 AU
morning rise	-898 Dec 17 j 16:02	2°♐59'33	
retrograde	-897 Mar 29 j 06:46	10°♐02'44	
opposition	-897 Jun 08 j 05:33	6°♐44'15	1°03'18
min. Earth dist.	-897 Jun 08 j 14:16	6°♐42'38	9.04611 AU
direct	-897 Aug 17 j 16:08	3°♐26'20	
evening set	-897 Nov 25 j 20:26	10°♐25'31	
conjunction	-897 Dec 12 j 10:34	12°♐22'43	0°38'40
minimum elong	-897 Dec 12 j 10:36	12°♐22'44	0°38'39
max. Earth dist.	-897 Dec 11 j 23:40	12°♐19'29	11.00959 AU
morning rise	-897 Dec 29 j 02:25	14°♐20'27	
retrograde	-896 Apr 09 j 11:07	21°♐29'54	
opposition	-896 Jun 19 j 11:18	18°♐10'12	0°30'18
min. Earth dist.	-896 Jun 19 j 20:34	18°♐08'29	8.96751 AU
direct	-896 Aug 28 j 12:28	14°♐52'01	
evening set	-896 Dec 06 j 07:34	21°♐54'11	
conjunction	-896 Dec 22 j 23:28	23°♐52'57	0°10'51
minimum elong	-896 Dec 22 j 23:29	23°♐52'57	0°10'50
behind sun begin	-896 Dec 22 j 18:06	23°♐51'22	
behind sun end	-896 Dec 23 j 04:52	23°♐54'32	
max. Earth dist.	-896 Dec 22 j 13:06	23°♐49'51	10.92113 AU
morning rise	-895 Jan 08 j 17:52	25°♐52'30	
	-895 Feb 16 j 12:59	0°♑	
retrograde	-895 Apr 21 j 23:01	3°♑09'38	
desc. node	-895 May 14 j 01:25	2°♑46'16	
	-895 Jun 29 j 07:34	30°℞♐	
opposition	-895 Jul 01 j 21:14	29°♐48'29	-0°04'35
min. Earth dist.	-895 Jul 02 j 05:44	29°♐46'54	8.86937 AU
direct	-895 Sep 09 j 10:43	26°♐29'48	
	-895 Nov 14 j 23:57	0°♑	
evening set	-895 Dec 18 j 00:57	3°♑36'30	
conjunction	-894 Jan 03 j 19:01	5°♑37'09	-0°18'01
minimum elong	-894 Jan 03 j 19:00	5°♑37'08	0°18'01
max. Earth dist.	-894 Jan 03 j 09:55	5°♑34'24	10.81473 AU
morning rise	-894 Jan 20 j 16:07	7°♑38'48	
retrograde	-894 May 04 j 17:40	15°♑04'53	
opposition	-894 Jul 14 j 12:06	11°♑42'09	-0°40'06
min. Earth dist.	-894 Jul 14 j 19:16	11°♑40'48	8.75553 AU
direct	-894 Sep 21 j 12:28	8°♑22'43	
evening set	-894 Dec 30 j 02:10	15°♑35'30	
conjunction	-893 Jan 15 j 22:32	17°♑38'20	-0°46'38
minimum elong	-893 Jan 15 j 22:31	17°♑38'19	0°46'38
max. Earth dist.	-893 Jan 15 j 14:19	17°♑35'49	10.69468 AU
morning rise	-893 Feb 01 j 22:39	19°♑42'22	
retrograde	-893 May 17 j 21:54	27°♑18'29	
opposition	-893 Jul 27 j 09:07	23°♑54'05	-1°14'50
min. Earth dist.	-893 Jul 27 j 15:02	23°♑52'57	8.63068 AU
direct	-893 Oct 03 j 19:41	20°♑33'41	
evening set	-892 Jan 11 j 12:33	27°♑53'56	
conjunction	-892 Jan 28 j 11:28	29°♑59'11	-1°13'49
minimum elong	-892 Jan 28 j 11:25	29°♑59'10	1°13'50
max. Earth dist.	-892 Jan 28 j 03:54	29°♑56'50	10.56608 AU
	-892 Jan 28 j 14:07	0°♒	
morning rise	-892 Feb 14 j 14:54	2°♒05'50	
retrograde	-892 May 30 j 10:10	9°♒52'38	
opposition	-892 Aug 08 j 12:41	6°♒26'37	-1°47'05
min. Earth dist.	-892 Aug 08 j 17:42	6°♒25'38	8.50023 AU
direct	-892 Oct 15 j 08:56	3°♒05'04	
evening set	-891 Jan 23 j 09:33	10°♒34'00	
conjunction	-891 Feb 09 j 11:28	12°♒41'51	-1°38'08
minimum elong	-891 Feb 09 j 11:25	12°♒41'50	1°38'09
max. Earth dist.	-891 Feb 09 j 05:40	12°♒40'02	10.43463 AU
morning rise	-891 Feb 26 j 18:20	14°♒51'15	
	-891 Feb 27 j 22:50	15°♒	
retrograde	-891 Jun 13 j 05:54	22°♒48'54	
opposition	-891 Aug 21 j 22:47	19°♒21'19	-2°15'00
min. Earth dist.	-891 Aug 22 j 02:25	19°♒20'36	8.37017 AU
direct	-891 Oct 28 j 07:02	15°♒58'31	
evening set	-890 Feb 05 j 17:52	23°♒36'58	
conjunction	-890 Feb 22 j 23:15	25°♒47'34	-1°58'05
minimum elong	-890 Feb 22 j 23:13	25°♒47'33	1°58'06
max. Earth dist.	-890 Feb 22 j 20:03	25°♒46'33	10.30658 AU
morning rise	-890 Mar 12 j 09:36	27°♒59'45	
	-890 Mar 28 j 22:27	0°♓	
retrograde	-890 Jun 27 j 10:18	6°♓07'45	
opposition	-890 Sep 04 j 15:40	2°♓38'49	-2°36'39
min. Earth dist.	-890 Sep 04 j 17:09	2°♓38'31	8.24692 AU
	-890 Oct 12 j 13:16	30°℞♒	
direct	-890 Nov 10 j 13:21	29°♒14'44	
	-890 Dec 09 j 02:47	0°♓	
evening set	-889 Feb 19 j 13:40	7°♓02'55	
conjunction	-889 Mar 08 j 22:52	9°♓16'18	-2°12'09
minimum elong	-889 Mar 08 j 22:51	9°♓16'18	2°12'09
max. Earth dist.	-889 Mar 08 j 22:45	9°♓16'16	10.18870 AU
morning rise	-889 Mar 26 j 12:49	11°♓31'15	
retrograde	-889 Jul 11 j 22:57	19°♓48'20	
opposition	-889 Sep 18 j 14:46	16°♓18'17	-2°50'11
min. Earth dist.	-889 Sep 18 j 13:41	16°♓18'30	8.13722 AU

Attention, astronomical year style is used: The year -889 in astronomical counting style is the year 890 BCE in historical counting style.

direct	-889 Nov 24 j 02:42	12°♓52'54	
evening set	-888 Mar 04 j 20:50	20°♓50'33	
conjunction	-888 Mar 22 j 10:12	23°♓06'37	-2°19'00
minimum elong	-888 Mar 22 j 10:12	23°♓06'37	2°19'01
max. Earth dist.	-888 Mar 22 j 12:45	23°♓07'27	10.08787 AU
morning rise	-888 Apr 09 j 03:56	25°♓24'09	
	-888 May 18 j 13:18	0°♈	
retrograde	-888 Jul 25 j 17:01	3°♈48'07	
opposition	-888 Oct 01 j 19:03	0°♈17'20	-2°54'02
min. Earth dist.	-888 Oct 01 j 15:48	0°♈18'00	8.04767 AU
	-888 Oct 05 j 07:35	30°℞♓	
direct	-888 Dec 07 j 00:16	26°♓50'43	
	-887 Feb 04 j 19:56	0°♈	
evening set	-887 Mar 19 j 14:06	4°♈56'51	
conjunction	-887 Apr 06 j 07:45	7°♈15'21	-2°17'43
minimum elong	-887 Apr 06 j 07:47	7°♈15'21	2°17'44
max. Earth dist.	-887 Apr 06 j 12:29	7°♈16'54	10.01047 AU
morning rise	-887 Apr 24 j 05:14	9°♈35'06	
retrograde	-887 Aug 09 j 13:59	18°♈03'04	
opposition	-887 Oct 16 j 03:18	14°♈31'59	-2°47'20
min. Earth dist.	-887 Oct 15 j 22:29	14°♈32'59	7.98405 AU
direct	-887 Dec 21 j 05:55	11°♈04'16	
evening set	-886 Apr 03 j 15:18	19°♈17'11	
conjunction	-886 Apr 21 j 13:06	21°♈37'39	-2°07'57
minimum elong	-886 Apr 21 j 13:09	21°♈37'39	2°07'57
max. Earth dist.	-886 Apr 21 j 19:53	21°♈39'52	9.96173 AU
morning rise	-886 May 09 j 13:54	23°♈59'04	
	-886 Jul 02 j 06:22	0°♉	
retrograde	-886 Aug 24 j 10:45	2°♉27'43	
	-886 Oct 17 j 17:13	30°℞♈	
opposition	-886 Oct 30 j 13:42	28°♈56'49	-2°30'01
min. Earth dist.	-886 Oct 30 j 07:38	28°♈58'05	7.95085 AU
direct	-885 Jan 04 j 17:35	25°♈28'12	
	-885 Mar 18 j 20:49	0°♉	
evening set	-885 Apr 18 j 21:54	3°♉45'37	
conjunction	-885 May 06 j 23:19	6°♉07'23	-1°50'04
minimum elong	-885 May 06 j 23:23	6°♉07'24	1°50'04
max. Earth dist.	-885 May 07 j 07:53	6°♉10'12	9.94528 AU
morning rise	-885 May 25 j 02:40	8°♉29'42	
	-885 Jul 23 j 17:42	15°♉	
retrograde	-885 Sep 08 j 05:19	16°♉55'37	
	-885 Oct 25 j 08:23	15°℞♉	
opposition	-885 Nov 14 j 00:11	13°♉25'20	-2°03'06
min. Earth dist.	-885 Nov 13 j 17:08	13°♉26'48	7.95072 AU
direct	-884 Jan 19 j 09:18	9°♉56'04	
	-884 Apr 06 j 15:25	15°♉	
evening set	-884 May 03 j 06:47	18°♉15'26	
conjunction	-884 May 21 j 10:50	20°♉37'38	-1°25'14
minimum elong	-884 May 21 j 10:54	20°♉37'39	1°25'14
max. Earth dist.	-884 May 21 j 20:46	20°♉40'53	9.96244 AU
morning rise	-884 Jun 08 j 15:28	22°♉59'57	
	-884 Aug 14 j 13:46	0°♊	
retrograde	-884 Sep 21 j 19:28	1°♊20'00	
	-884 Oct 30 j 09:12	30°℞♉	
opposition	-884 Nov 27 j 08:55	27°♉50'43	-1°28'29
min. Earth dist.	-884 Nov 27 j 00:53	27°♉52'23	7.98375 AU
direct	-883 Feb 02 j 03:01	24°♉21'07	
	-883 Apr 26 j 23:07	0°♊	
evening set	-883 May 18 j 14:41	2°♊39'45	
conjunction	-883 Jun 05 j 19:50	5°♊01'25	-0°55'14
minimum elong	-883 Jun 05 j 19:52	5°♊01'26	0°55'13
max. Earth dist.	-883 Jun 06 j 06:50	5°♊05'01	10.01194 AU
morning rise	-883 Jun 24 j 00:03	7°♊22'44	
retrograde	-883 Oct 06 j 02:59	15°♊34'28	
opposition	-883 Dec 11 j 14:01	12°♊06'30	-0°48'47
min. Earth dist.	-883 Dec 11 j 05:06	12°♊08'21	8.04775 AU
direct	-882 Feb 16 j 20:06	8°♊36'53	
evening set	-882 Jun 02 j 18:17	16°♊52'17	
conjunction	-882 Jun 20 j 22:48	19°♊12'27	-0°22'16
minimum elong	-882 Jun 20 j 22:49	19°♊12'28	0°22'15
max. Earth dist.	-882 Jun 21 j 10:23	19°♊16'12	10.09040 AU
morning rise	-882 Jul 09 j 00:57	21°♊31'51	
retrograde	-882 Oct 20 j 02:15	29°♊33'38	
opposition	-882 Dec 25 j 14:05	26°♊07'10	-0°06'55
min. Earth dist.	-882 Dec 25 j 05:00	26°♊09'02	8.13837 AU
asc. node	-881 Feb 26 j 03:11	22°♊39'19	
direct	-881 Mar 03 j 10:02	22°♊37'49	
	-881 Jun 11 j 04:25	0°♋	
evening set	-881 Jun 17 j 14:46	0°♋47'53	
conjunction	-881 Jul 05 j 16:58	3°♋05'44	0°11'28
minimum elong	-881 Jul 05 j 16:57	3°♋05'44	0°11'30
behind sun begin	-881 Jul 05 j 11:46	3°♋04'05	
behind sun end	-881 Jul 05 j 22:09	3°♋07'22	
max. Earth dist.	-881 Jul 06 j 04:10	3°♋09'18	10.19234 AU
morning rise	-881 Jul 23 j 15:34	5°♋22'27	
retrograde	-881 Nov 02 j 17:06	13°♋13'28	
opposition	-880 Jan 08 j 08:08	9°♋48'37	0°34'18
min. Earth dist.	-880 Jan 07 j 23:52	9°♋50'18	8.24934 AU
direct	-880 Mar 16 j 18:06	6°♋19'46	
evening set	-880 Jul 01 j 02:12	14°♋22'56	
conjunction	-880 Jul 19 j 00:31	16°♋37'52	0°43'44
minimum elong	-880 Jul 19 j 00:29	16°♋37'51	0°43'46
max. Earth dist.	-880 Jul 19 j 10:11	16°♋40'55	10.31069 AU
morning rise	-880 Aug 05 j 18:23	18°♋51'25	
retrograde	-880 Nov 14 j 23:08	26°♋31'38	
opposition	-879 Jan 20 j 19:29	23°♋08'24	1°12'30
min. Earth dist.	-879 Jan 20 j 13:09	23°♋09'40	8.37316 AU
direct	-879 Mar 30 j 19:56	19°♋40'18	
evening set	-879 Jul 15 j 03:01	27°♋35'37	
conjunction	-879 Aug 01 j 20:23	29°♋47'19	1°12'55
minimum elong	-879 Aug 01 j 20:20	29°♋47'18	1°12'56
max. Earth dist.	-879 Aug 02 j 03:14	29°♋49'27	10.43764 AU
	-879 Aug 03 j 13:05	0°♌	
morning rise	-879 Aug 19 j 08:57	1°♌57'30	
retrograde	-879 Nov 27 j 19:29	9°♌27'35	
opposition	-878 Feb 03 j 00:13	6°♌05'56	1°45'48
min. Earth dist.	-878 Feb 02 j 19:51	6°♌06'48	8.50200 AU
direct	-878 Apr 13 j 15:01	2°♌38'48	
evening set	-878 Jul 28 j 16:31	10°♌25'54	
conjunction	-878 Aug 15 j 04:31	12°♌34'18	1°37'42
minimum elong	-878 Aug 15 j 04:28	12°♌34'17	1°37'43
max. Earth dist.	-878 Aug 15 j 08:21	12°♌35'28	10.56592 AU
morning rise	-878 Sep 01 j 11:40	14°♌41'12	
	-878 Sep 04 j 02:19	15°♌	
retrograde	-878 Dec 10 j 07:14	22°♌02'15	
opposition	-877 Feb 15 j 22:30	18°♌42'02	2°12'57
min. Earth dist.	-877 Feb 15 j 19:39	18°♌42'35	8.62922 AU
direct	-877 Apr 27 j 03:36	15°♌16'01	
evening set	-877 Aug 10 j 19:11	22°♌54'52	
conjunction	-877 Aug 28 j 01:53	25°♌00'09	1°57'14
minimum elong	-877 Aug 28 j 01:50	25°♌00'08	1°57'14
max. Earth dist.	-877 Aug 28 j 03:33	25°♌00'39	10.68985 AU

Attention, astronomical year style is used: The year -877 in astronomical counting style is the year 878 BCE in historical counting style.

morning rise	-877 Sep 14 j 03:41	27°♌03'56		
	-877 Oct 10 j 04:11	0°♍		
retrograde	-877 Dec 22 j 14:24	4°♍17'10		
opposition	-876 Feb 28 j 14:55	0°♍58'09	2°33'12	
min. Earth dist.	-876 Feb 28 j 13:17	0°♍58'28	8.74961 AU	
	-876 Mar 12 j 10:22	30°℞♌		
direct	-876 May 09 j 06:28	27°♌33'21		
	-876 Jul 04 j 08:49	0°♍		
evening set	-876 Aug 22 j 11:23	5°♍04'08		
conjunction	-876 Sep 08 j 13:10	7°♍06'36	2°11'02	
minimum elong	-876 Sep 08 j 13:08	7°♍06'35	2°11'02	
max. Earth dist.	-876 Sep 08 j 13:30	7°♍06'42	10.80466 AU	
morning rise	-876 Sep 25 j 10:06	9°♍07'39		
retrograde	-875 Jan 02 j 15:08	16°♍14'18		
opposition	-875 Mar 12 j 02:26	12°♍56'15	2°46'14	
min. Earth dist.	-875 Mar 12 j 02:35	12°♍56'13	8.85863 AU	
direct	-875 May 22 j 01:58	9°♍32'39		
evening set	-875 Sep 03 j 17:52	16°♍55'48		
conjunction	-875 Sep 20 j 15:16	18°♍55'49	2°18'55	
minimum elong	-875 Sep 20 j 15:14	18°♍55'48	2°18'54	
max. Earth dist.	-875 Sep 20 j 13:46	18°♍55'22	10.90603 AU	
morning rise	-875 Oct 07 j 08:14	20°♍54'35		
retrograde	-874 Jan 14 j 11:17	27°♍56'03		
opposition	-874 Mar 24 j 09:33	24°♍38'42	2°52'01	
min. Earth dist.	-874 Mar 24 j 11:59	24°♍38'14	8.95216 AU	
direct	-874 Jun 03 j 15:34	21°♍16'12		
evening set	-874 Sep 15 j 16:04	28°♍32'26		
	-874 Sep 28 j 02:44	0°♎		
conjunction	-874 Oct 02 j 09:47	0°♎30'29	2°20'56	
minimum elong	-874 Oct 02 j 09:47	0°♎30'29	2°20'55	
max. Earth dist.	-874 Oct 02 j 05:42	0°♎29'17	10.99024 AU	
morning rise	-874 Oct 18 j 23:53	2°♎27'30		
retrograde	-873 Jan 26 j 02:57	9°♎25'07		
opposition	-873 Apr 05 j 12:56	6°♎08'11	2°50'48	
min. Earth dist.	-873 Apr 05 j 17:10	6°♎07'24	9.02677 AU	
direct	-873 Jun 15 j 22:40	2°♎46'43		
evening set	-873 Sep 27 j 07:12	9°♎56'56		
conjunction	-873 Oct 13 j 22:14	11°♎53'33	2°17'18	
minimum elong	-873 Oct 13 j 22:15	11°♎53'33	2°17'18	
max. Earth dist.	-873 Oct 13 j 16:20	11°♎51'49	11.05430 AU	
morning rise	-873 Oct 30 j 10:23	13°♎49'19		
retrograde	-872 Feb 06 j 17:22	20°♎44'38		
opposition	-872 Apr 16 j 13:53	17°♎27'49	2°42'57	
min. Earth dist.	-872 Apr 16 j 18:45	17°♎26'55	9.07981 AU	
direct	-872 Jun 27 j 02:05	14°♎07'16		
evening set	-872 Oct 07 j 16:42	21°♎12'31		
conjunction	-872 Oct 24 j 06:03	23°♎08'12	2°08'24	
minimum elong	-872 Oct 24 j 06:05	23°♎08'13	2°08'24	
max. Earth dist.	-872 Oct 23 j 23:52	23°♎06'23	11.09600 AU	
morning rise	-872 Nov 09 j 17:04	25°♎03'16		
	-872 Dec 29 j 16:11	0°♏		
retrograde	-871 Feb 17 j 09:20	1°♏57'48		
	-871 Apr 10 j 02:35	30°℞♎		
opposition	-871 Apr 28 j 13:21	28°♎40'51	2°28'58	
min. Earth dist.	-871 Apr 28 j 18:59	28°♎39'49	9.10958 AU	
direct	-871 Jul 09 j 00:18	25°♎21'06		
	-871 Sep 27 j 06:19	0°♏		
evening set	-871 Oct 18 j 22:41	2°♏22'36		
conjunction	-871 Nov 04 j 11:06	4°♏17'53	1°54'38	
minimum elong	-871 Nov 04 j 11:08	4°♏17'53	1°54'38	
max. Earth dist.	-871 Nov 04 j 03:52	4°♏15'46	11.11404 AU	
morning rise	-871 Nov 20 j 21:57	6°♏12'47		
retrograde	-870 Feb 28 j 23:43	13°♏08'02		
opposition	-870 May 10 j 12:12	9°♏50'45	2°09'25	
min. Earth dist.	-870 May 10 j 19:15	9°♏49'27	9.11523 AU	
direct	-870 Jul 20 j 18:01	6°♏31'35		
evening set	-870 Oct 30 j 02:45	13°♏30'46		
	-870 Nov 11 j 21:51	15°♏		
conjunction	-870 Nov 15 j 14:52	15°♏26'06	1°36'33	
minimum elong	-870 Nov 15 j 14:55	15°♏26'07	1°36'32	
max. Earth dist.	-870 Nov 15 j 05:54	15°♏23'28	11.10791 AU	
morning rise	-870 Dec 02 j 02:33	17°♏21'20		
retrograde	-869 Mar 12 j 17:10	24°♏18'55		
opposition	-869 May 22 j 11:49	21°♏01'03	1°44'59	
min. Earth dist.	-869 May 22 j 19:57	20°♏59'34	9.09655 AU	
direct	-869 Aug 01 j 12:19	17°♏42'19		
evening set	-869 Nov 10 j 06:35	24°♏40'36		
conjunction	-869 Nov 26 j 19:12	26°♏36'28	1°14'43	
minimum elong	-869 Nov 26 j 19:15	26°♏36'29	1°14'41	
max. Earth dist.	-869 Nov 26 j 09:54	26°♏33'43	11.07770 AU	
morning rise	-869 Dec 13 j 08:15	28°♏32'30		
	-869 Dec 26 j 07:05	0°♐		
retrograde	-868 Mar 23 j 14:05	5°♐34'01		
opposition	-868 Jun 02 j 13:11	2°♐15'21	1°16'22	
min. Earth dist.	-868 Jun 02 j 21:03	2°♐13'54	9.05411 AU	
	-868 Jul 06 j 06:37	30°℞♏		
direct	-868 Aug 12 j 05:32	28°♏56'52		
	-868 Sep 17 j 07:21	0°♐		
evening set	-868 Nov 20 j 12:13	5°♐55'46		
conjunction	-868 Dec 07 j 02:00	7°♐52'36	0°49'49	
minimum elong	-868 Dec 07 j 02:01	7°♐52'36	0°49'48	
max. Earth dist.	-868 Dec 06 j 17:18	7°♐50'01	11.02428 AU	
morning rise	-868 Dec 23 j 16:50	9°♐49'49		
retrograde	-867 Apr 04 j 17:43	16°♐56'50		
opposition	-867 Jun 14 j 17:20	13°♐37'10	0°44'26	
min. Earth dist.	-867 Jun 15 j 00:37	13°♐35'50	8.98931 AU	
direct	-867 Aug 24 j 00:12	10°♐18'43		
evening set	-867 Dec 01 j 21:29	17°♐19'48		
conjunction	-867 Dec 18 j 12:46	19°♐18'00	0°22'40	
minimum elong	-867 Dec 18 j 12:46	19°♐18'00	0°22'39	
max. Earth dist.	-867 Dec 18 j 04:05	19°♐15'25	10.94943 AU	
morning rise	-866 Jan 04 j 05:58	21°♐16'50		
retrograde	-866 Apr 17 j 02:59	28°♐30'47		
opposition	-866 Jun 27 j 01:27	25°♐09'59	0°10'11	
min. Earth dist.	-866 Jun 27 j 08:36	25°♐08'39	8.90436 AU	
direct	-866 Sep 04 j 19:21	21°♐51'20		
desc. node	-866 Oct 14 j 04:42	23°♐08'22		
evening set	-866 Dec 13 j 12:13	28°♐56'12		
	-866 Dec 22 j 10:47	0°♑		
conjunction	-866 Dec 30 j 05:14	0°♑56'04	-0°05'57	
minimum elong	-866 Dec 30 j 05:13	0°♑56'03	0°05'58	
behind sun begin	-866 Dec 29 j 22:32	0°♑54'04		
behind sun end	-866 Dec 30 j 11:54	0°♑58'03		
max. Earth dist.	-866 Dec 29 j 20:11	0°♑53'21	10.85580 AU	
morning rise	-865 Jan 16 j 01:12	2°♑56'51		
retrograde	-865 Apr 29 j 17:40	10°♑19'09		
opposition	-865 Jul 09 j 14:26	6°♑57'02	-0°25'15	
min. Earth dist.	-865 Jul 09 j 21:31	6°♑55'42	8.80248 AU	
direct	-865 Sep 16 j 19:12	3°♑37'56		
evening set	-865 Dec 25 j 10:02	10°♑48'09		
conjunction	-864 Jan 11 j 05:14	12°♑50'01	-0°34'45	
minimum elong	-864 Jan 11 j 05:13	12°♑50'01	0°34'46	

Attention, astronomical year style is used: The year -864 in astronomical counting style is the year 865 BCE in historical counting style.

max. Earth dist.	-864 Jan 10 j 21:16	12°♑47'36	10.74702 AU
morning rise	-864 Jan 28 j 04:09	14°♑53'02	
retrograde	-864 May 11 j 17:58	22°♑24'50	
opposition	-864 Jul 21 j 09:03	19°♑01'19	-1°00'30
min. Earth dist.	-864 Jul 21 j 15:04	19°♑00'11	8.68780 AU
direct	-864 Sep 28 j 01:29	15°♑41'34	
evening set	-863 Jan 05 j 16:27	22°♑58'31	
conjunction	-863 Jan 22 j 14:17	25°♑02'40	-1°02'42
minimum elong	-863 Jan 22 j 14:15	25°♑02'40	1°02'42
max. Earth dist.	-863 Jan 22 j 08:24	25°♑00'51	10.62746 AU
morning rise	-863 Feb 08 j 16:14	27°♑08'08	
	-863 Mar 05 j 15:00	0°♒	
retrograde	-863 May 25 j 02:53	4°♒50'15	
opposition	-863 Aug 03 j 09:50	1°♒25'17	-1°33'57
min. Earth dist.	-863 Aug 03 j 13:57	1°♒24'29	8.56502 AU
	-863 Aug 22 j 10:15	30°℞♑	
direct	-863 Oct 10 j 12:10	28°♑04'41	
	-863 Nov 26 j 17:52	0°♒	
evening set	-862 Jan 18 j 09:03	5°♒29'39	
conjunction	-862 Feb 04 j 09:42	7°♒36'16	-1°28'22
minimum elong	-862 Feb 04 j 09:39	7°♒36'15	1°28'23
max. Earth dist.	-862 Feb 04 j 05:32	7°♒34'58	10.50221 AU
morning rise	-862 Feb 21 j 14:49	9°♒44'20	
	-862 Apr 11 j 13:57	15°♒	
retrograde	-862 Jun 07 j 20:09	17°♒37'06	
	-862 Aug 06 j 02:33	15°℞♒	
opposition	-862 Aug 16 j 17:03	14°♒10'42	-2°03'51
min. Earth dist.	-862 Aug 16 j 19:21	14°♒10'15	8.43957 AU
direct	-862 Oct 23 j 06:10	10°♒49'04	
	-861 Jan 02 j 09:47	15°♒	
evening set	-861 Jan 31 j 12:35	18°♒22'58	
conjunction	-861 Feb 17 j 16:17	20°♒32'12	-1°50'17
minimum elong	-861 Feb 17 j 16:14	20°♒32'11	1°50'18
max. Earth dist.	-861 Feb 17 j 13:24	20°♒31'17	10.37716 AU
morning rise	-861 Mar 07 j 00:52	22°♒42'59	
	-861 May 22 j 19:44	0°♓	
retrograde	-861 Jun 21 j 21:58	0°♓46'06	
	-861 Jul 22 j 04:19	30°℞♒	
opposition	-861 Aug 30 j 07:05	27°♒18'22	-2°28'16
min. Earth dist.	-861 Aug 30 j 08:04	27°♒18'10	8.31737 AU
direct	-861 Nov 05 j 07:48	23°♒55'33	
	-860 Jan 31 j 16:19	0°♓	
evening set	-860 Feb 14 j 03:19	1°♓38'51	
conjunction	-860 Mar 02 j 10:33	3°♓50'46	-2°06'56
minimum elong	-860 Mar 02 j 10:30	3°♓50'46	2°06'56
max. Earth dist.	-860 Mar 02 j 09:04	3°♓50'18	10.25822 AU
morning rise	-860 Mar 19 j 22:51	6°♓04'18	
retrograde	-860 Jul 05 j 07:17	14°♓16'49	
opposition	-860 Sep 12 j 03:20	10°♓47'55	-2°45'20
min. Earth dist.	-860 Sep 12 j 03:20	10°♓47'55	8.20408 AU
direct	-860 Nov 17 j 17:43	7°♓23'47	
evening set	-859 Feb 27 j 05:23	15°♓16'34	
conjunction	-859 Mar 16 j 16:38	17°♓31'11	-2°16'55
minimum elong	-859 Mar 16 j 16:37	17°♓31'11	2°16'55
max. Earth dist.	-859 Mar 16 j 16:49	17°♓31'15	10.15107 AU
morning rise	-859 Apr 03 j 08:43	19°♓47'21	
retrograde	-859 Jul 19 j 21:31	28°♓07'36	
opposition	-859 Sep 26 j 04:59	24°♓37'51	-2°53'21
min. Earth dist.	-859 Sep 26 j 03:49	24°♓38'05	8.10548 AU
direct	-859 Dec 01 j 12:50	21°♓12'25	
evening set	-858 Mar 13 j 17:54	29°♓14'10	
	-858 Mar 19 j 16:37	0°♈	
conjunction	-858 Mar 31 j 09:30	1°♈31'21	-2°19'08
minimum elong	-858 Mar 31 j 09:30	1°♈31'21	2°19'08
max. Earth dist.	-858 Mar 31 j 12:13	1°♈32'14	10.06203 AU
morning rise	-858 Apr 18 j 05:18	3°♈49'54	
retrograde	-858 Aug 03 j 15:52	12°♈15'32	
opposition	-858 Oct 10 j 11:14	8°♈45'14	-2°51'10
min. Earth dist.	-858 Oct 10 j 08:07	8°♈45'52	8.02826 AU
direct	-858 Dec 15 j 15:38	5°♈18'36	
evening set	-857 Mar 28 j 15:11	13°♈27'54	
conjunction	-857 Apr 15 j 11:11	15°♈47'19	-2°12'57
minimum elong	-857 Apr 15 j 11:14	15°♈47'20	2°12'57
max. Earth dist.	-857 Apr 15 j 16:43	15°♈49'08	9.99789 AU
morning rise	-857 May 03 j 10:30	18°♈07'49	
retrograde	-857 Aug 18 j 11:57	26°♈35'44	
opposition	-857 Oct 24 j 20:23	23°♈05'15	-2°38'21
min. Earth dist.	-857 Oct 24 j 15:14	23°♈06'19	7.97851 AU
direct	-857 Dec 30 j 00:13	19°♈37'30	
evening set	-856 Apr 11 j 19:18	27°♈52'23	
	-856 Apr 28 j 02:25	0°♉	
conjunction	-856 Apr 29 j 19:20	0°♉13'27	-1°58'28
minimum elong	-856 Apr 29 j 19:23	0°♉13'28	1°58'28
max. Earth dist.	-856 Apr 30 j 03:10	0°♉16'02	9.96378 AU
morning rise	-856 May 17 j 21:30	2°♉35'14	
retrograde	-856 Sep 01 j 07:47	11°♉01'57	
opposition	-856 Nov 07 j 06:25	7°♉31'41	-2°15'27
min. Earth dist.	-856 Nov 06 j 23:44	7°♉33'05	7.96016 AU
direct	-855 Jan 12 j 12:51	4°♉02'59	
evening set	-855 Apr 27 j 03:04	12°♉21'00	
conjunction	-855 May 15 j 06:12	14°♉42'56	-1°36'29
minimum elong	-855 May 15 j 06:16	14°♉42'58	1°36'29
max. Earth dist.	-855 May 15 j 15:42	14°♉46'04	9.96233 AU
	-855 May 17 j 10:08	15°♉	
morning rise	-855 Jun 02 j 10:11	17°♉05'10	
retrograde	-855 Sep 16 j 00:35	25°♉27'23	
opposition	-855 Nov 21 j 15:36	21°♉57'45	-1°43'57
min. Earth dist.	-855 Nov 21 j 08:03	21°♉59'19	7.97469 AU
direct	-854 Jan 27 j 05:12	18°♉28'21	
evening set	-854 May 12 j 10:58	26°♉46'50	
conjunction	-854 May 30 j 15:49	29°♉08'42	-1°08'32
minimum elong	-854 May 30 j 15:52	29°♉08'43	1°08'32
max. Earth dist.	-854 May 31 j 02:08	29°♉12'04	9.99364 AU
	-854 Jun 06 j 04:51	0°♊	
morning rise	-854 Jun 17 j 20:14	1°♊30'24	
retrograde	-854 Sep 30 j 10:39	9°♊45'24	
opposition	-854 Dec 05 j 21:58	6°♊16'44	-1°06'14
min. Earth dist.	-854 Dec 05 j 14:21	6°♊18'19	8.02107 AU
direct	-853 Feb 10 j 22:23	2°♊46'57	
evening set	-853 May 27 j 16:05	11°♊03'23	
conjunction	-853 Jun 14 j 21:00	13°♊24'11	-0°36'39
minimum elong	-853 Jun 14 j 21:02	13°♊24'12	0°36'39
max. Earth dist.	-853 Jun 15 j 07:04	13°♊27'27	10.05535 AU
morning rise	-853 Jul 03 j 00:15	15°♊44'26	
retrograde	-853 Oct 14 j 12:28	23°♊50'12	
opposition	-853 Dec 19 j 23:41	20°♊22'49	-0°25'03
min. Earth dist.	-853 Dec 19 j 16:21	20°♊24'19	8.09599 AU
direct	-852 Feb 25 j 13:52	16°♊52'56	
evening set	-852 Jun 10 j 15:22	25°♊05'06	
conjunction	-852 Jun 28 j 18:39	27°♊24'00	-0°03'09
minimum elong	-852 Jun 28 j 18:39	27°♊24'00	0°03'08
behind sun begin	-852 Jun 28 j 11:21	27°♊21'41	
behind sun end	-852 Jun 29 j 01:58	27°♊26'19	

Attention, astronomical year style is used: The year -852 in astronomical counting style is the year 853 BCE in historical counting style.

max. Earth dist.	-852 Jun 29 j 03:57	27°♊26'58	10.14302 AU	
morning rise	-852 Jul 16 j 19:07	29°♊41'56		
	-852 Jul 19 j 04:45	0°♋		
asc. node	-852 Aug 02 j 11:41	1°♋44'18		
retrograde	-852 Oct 27 j 05:25	7°♋37'23		
opposition	-851 Jan 01 j 19:54	4°♋11'25	0°16'41	
min. Earth dist.	-851 Jan 01 j 12:47	4°♋12'52	8.19427 AU	
direct	-851 Mar 11 j 00:49	0°♋41'49		
evening set	-851 Jun 25 j 06:18	8°♋47'55		
conjunction	-851 Jul 13 j 06:22	11°♋04'11	0°30'00	
minimum elong	-851 Jul 13 j 06:21	11°♋04'11	0°30'01	
max. Earth dist.	-851 Jul 13 j 14:48	11°♋06'52	10.25077 AU	
morning rise	-851 Jul 31 j 02:38	13°♋19'12		
retrograde	-851 Nov 09 j 14:27	21°♋04'01		
opposition	-850 Jan 15 j 09:45	17°♋39'34	0°56'24	
min. Earth dist.	-850 Jan 15 j 02:51	17°♋40'58	8.30968 AU	
direct	-850 Mar 25 j 05:39	14°♋10'34		
evening set	-850 Jul 09 j 11:18	22°♋09'20		
conjunction	-850 Jul 27 j 07:02	24°♋22'32	1°00'41	
minimum elong	-850 Jul 27 j 06:59	24°♋22'31	1°00'41	
max. Earth dist.	-850 Jul 27 j 14:35	24°♋24'54	10.37211 AU	
morning rise	-850 Aug 13 j 22:09	26°♋34'16		
	-850 Sep 12 j 16:44	0°♌		
retrograde	-850 Nov 22 j 14:38	4°♌08'44		
opposition	-849 Jan 28 j 16:52	0°♌45'49	1°31'59	
min. Earth dist.	-849 Jan 28 j 10:47	0°♌47'02	8.43552 AU	
	-849 Feb 07 j 09:25	30°℞♋		
direct	-849 Apr 08 j 03:17	27°♋17'41		
	-849 Jun 05 j 06:40	0°♌		
evening set	-849 Jul 23 j 05:30	5°♌08'24		
conjunction	-849 Aug 09 j 20:09	7°♌18'18	1°27'29	
minimum elong	-849 Aug 09 j 20:06	7°♌18'17	1°27'30	
max. Earth dist.	-849 Aug 10 j 02:32	7°♌20'17	10.50025 AU	
morning rise	-849 Aug 27 j 05:41	9°♌26'41		
	-849 Oct 19 j 23:02	15°♌		
retrograde	-849 Dec 05 j 06:56	16°♌51'33		
	-848 Jan 21 j 22:28	15°℞♌		
opposition	-848 Feb 10 j 17:38	13°♌30'09	2°01'54	
min. Earth dist.	-848 Feb 10 j 13:17	13°♌31'00	8.56501 AU	
direct	-848 Apr 20 j 17:08	10°♌03'07		
	-848 Jul 11 j 09:17	15°♌		
evening set	-848 Aug 04 j 12:37	17°♌45'27		
conjunction	-848 Aug 21 j 21:48	19°♌52'07	1°49'22	
minimum elong	-848 Aug 21 j 21:44	19°♌52'06	1°49'22	
max. Earth dist.	-848 Aug 22 j 02:00	19°♌53'24	10.62868 AU	
morning rise	-848 Sep 08 j 01:49	21°♌57'14		
retrograde	-848 Dec 16 j 16:09	29°♌13'35		
opposition	-847 Feb 22 j 12:18	25°♌53'36	2°25'12	
min. Earth dist.	-847 Feb 22 j 09:57	25°♌54'03	8.69186 AU	
direct	-847 May 03 j 22:33	22°♌27'49		
evening set	-847 Aug 17 j 08:56	0°♍01'52		
	-847 Aug 17 j 02:39	0°♍		
conjunction	-847 Sep 03 j 12:47	2°♍05'30	2°05'41	
minimum elong	-847 Sep 03 j 12:45	2°♍05'30	2°05'41	
max. Earth dist.	-847 Sep 03 j 14:20	2°♍05'58	10.75155 AU	
morning rise	-847 Sep 20 j 11:52	4°♍07'42		
retrograde	-847 Dec 28 j 17:04	11°♍16'48		
opposition	-846 Mar 07 j 01:21	7°♍58'01	2°41'22	
min. Earth dist.	-846 Mar 07 j 00:37	7°♍58'10	8.81043 AU	
direct	-846 May 16 j 22:08	4°♍33'34		
evening set	-846 Aug 29 j 19:04	11°♍59'44		

conjunction	-846 Sep 15 j 18:15	14°♍00'43	2°16'08	
minimum elong	-846 Sep 15 j 18:13	14°♍00'42	2°16'08	
max. Earth dist.	-846 Sep 15 j 17:37	14°♍00'31	10.86359 AU	
morning rise	-846 Oct 02 j 13:05	16°♍00'24		
retrograde	-845 Jan 09 j 14:56	23°♍03'38		
opposition	-845 Mar 19 j 09:38	19°♍45'50	2°50'17	
min. Earth dist.	-845 Mar 19 j 09:52	19°♍45'48	8.91559 AU	
direct	-845 May 29 j 14:43	16°♍22'46		
evening set	-845 Sep 10 j 20:21	23°♍41'38		
conjunction	-845 Sep 27 j 15:40	25°♍40'26	2°20'41	
minimum elong	-845 Sep 27 j 15:40	25°♍40'26	2°20'40	
max. Earth dist.	-845 Sep 27 j 14:00	25°♍39'56	10.96016 AU	
morning rise	-845 Oct 14 j 06:56	27°♍38'05		
	-845 Nov 04 j 12:49	0°♎		
retrograde	-844 Jan 21 j 09:36	4°♎36'51		
opposition	-844 Mar 30 j 14:08	1°♎19'49	2°52'04	
min. Earth dist.	-844 Mar 30 j 15:49	1°♎19'30	9.00321 AU	
	-844 Apr 17 j 22:25	30°℞♍		
direct	-844 Jun 09 j 22:33	27°♍58'04		
	-844 Jul 31 j 09:01	0°♎		
evening set	-844 Sep 21 j 14:08	5°♎10'28		
conjunction	-844 Oct 08 j 06:22	7°♎07'34	2°19'29	
minimum elong	-844 Oct 08 j 06:23	7°♎07'34	2°19'29	
max. Earth dist.	-844 Oct 08 j 03:15	7°♎06'39	11.03770 AU	
morning rise	-844 Oct 24 j 19:07	9°♎03'43		
retrograde	-843 Feb 01 j 00:46	15°♎59'30		
opposition	-843 Apr 11 j 15:55	12°♎42'57	2°47'03	
min. Earth dist.	-843 Apr 11 j 19:41	12°♎42'15	9.07025 AU	
direct	-843 Jun 22 j 02:30	9°♎22'21		
evening set	-843 Oct 03 j 01:48	16°♎29'19		
conjunction	-843 Oct 19 j 15:44	18°♎25'13	2°12'51	
minimum elong	-843 Oct 19 j 15:46	18°♎25'14	2°12'51	
max. Earth dist.	-843 Oct 19 j 10:14	18°♎23'37	11.09352 AU	
morning rise	-843 Nov 05 j 03:09	20°♎20'26		
retrograde	-842 Feb 12 j 15:10	27°♎14'42		
opposition	-842 Apr 23 j 15:43	23°♎58'20	2°35'41	
min. Earth dist.	-842 Apr 23 j 21:13	23°♎57'19	9.11429 AU	
direct	-842 Jul 04 j 02:11	20°♎38'44		
evening set	-842 Oct 14 j 09:09	27°♎41'24		
conjunction	-842 Oct 30 j 21:45	29°♎36'38	2°01'10	
minimum elong	-842 Oct 30 j 21:47	29°♎36'39	2°01'10	
max. Earth dist.	-842 Oct 30 j 14:39	29°♎34'34	11.12558 AU	
	-842 Nov 03 j 05:32	0°♏		
morning rise	-842 Nov 16 j 08:40	1°♏31'26		
retrograde	-841 Feb 24 j 04:41	8°♏25'43		
opposition	-841 May 05 j 14:25	5°♏09'11	2°18'31	
min. Earth dist.	-841 May 05 j 20:41	5°♏08'03	9.13359 AU	
direct	-841 Jul 15 j 22:27	1°♏50'23		
evening set	-841 Oct 25 j 13:46	8°♏50'02		
conjunction	-841 Nov 11 j 01:56	10°♏45'07	1°44'56	
minimum elong	-841 Nov 11 j 01:59	10°♏45'08	1°44'56	
max. Earth dist.	-841 Nov 10 j 18:23	10°♏42'54	11.13244 AU	
morning rise	-841 Nov 27 j 13:03	12°♏39'58		
	-841 Dec 18 j 19:19	15°♏		
retrograde	-840 Mar 06 j 22:45	19°♏35'51		
opposition	-840 May 16 j 13:29	16°♏18'54	1°56'12	
min. Earth dist.	-840 May 16 j 20:15	16°♏17'39	9.12710 AU	
	-840 Jun 04 j 00:55	15°℞♏		
direct	-840 Jul 26 j 17:25	13°♏00'39		
	-840 Sep 15 j 06:38	15°♏		
evening set	-840 Nov 04 j 17:23	19°♏58'39		

Attention, astronomical year style is used: The year -840 in astronomical counting style is the year 841 BCE in historical counting style.

conjunction	-840 Nov 21 j 05:45	21°♏54'04	1°24'43	
minimum elong	-840 Nov 21 j 05:47	21°♏54'04	1°24'42	
max. Earth dist.	-840 Nov 20 j 21:12	21°♏51'33	11.11329 AU	
morning rise	-840 Dec 07 j 17:52	23°♏49'30		
	-839 Feb 14 j 23:25	0°♐		
retrograde	-839 Mar 18 j 18:08	0°♐48'33		
	-839 Apr 20 j 02:38	30°℞♏		
opposition	-839 May 28 j 13:53	27°♏30'54	1°29'23	
min. Earth dist.	-839 May 28 j 22:00	27°♏29'25	9.09444 AU	
direct	-839 Aug 07 j 09:00	24°♏12'56		
	-839 Nov 05 j 11:26	0°♐		
evening set	-839 Nov 15 j 22:09	1°♐10'56		
conjunction	-839 Dec 02 j 11:11	3°♐07'07	1°01'08	
minimum elong	-839 Dec 02 j 11:13	3°♐07'07	1°01'07	
max. Earth dist.	-839 Dec 02 j 00:47	3°♐04'03	11.06823 AU	
morning rise	-839 Dec 19 j 01:07	5°♐03'36		
retrograde	-838 Mar 30 j 17:20	12°♐07'29		
opposition	-838 Jun 09 j 16:28	8°♐48'53	0°58'53	
min. Earth dist.	-838 Jun 10 j 01:44	8°♐47'11	9.03650 AU	
direct	-838 Aug 19 j 02:52	5°♐30'55		
evening set	-838 Nov 27 j 05:35	12°♐30'33		
conjunction	-838 Dec 13 j 19:58	14°♐27'57	0°34'55	
minimum elong	-838 Dec 13 j 19:59	14°♐27'57	0°34'54	
max. Earth dist.	-838 Dec 13 j 09:09	14°♐24'44	10.99894 AU	
morning rise	-838 Dec 30 j 12:06	16°♐25'54		
retrograde	-837 Apr 11 j 23:00	23°♐36'13		
opposition	-837 Jun 21 j 22:41	20°♐16'24	0°25'35	
min. Earth dist.	-837 Jun 22 j 07:47	20°♐14'43	8.95575 AU	
direct	-837 Aug 30 j 22:45	16°♐58'11		
evening set	-837 Dec 08 j 17:30	24°♐00'58		
conjunction	-837 Dec 25 j 09:43	25°♐59'57	0°06'56	
minimum elong	-837 Dec 25 j 09:43	25°♐59'57	0°06'56	
behind sun begin	-837 Dec 25 j 03:13	25°♐58'02		
behind sun end	-837 Dec 25 j 16:13	26°♐01'53		
max. Earth dist.	-837 Dec 24 j 24:00	25°♐57'04	10.90835 AU	
morning rise	-836 Jan 11 j 04:17	27°♐59'45		
	-836 Jan 28 j 20:08	0°♑		
desc. node	-836 Mar 24 j 19:31	4°♑35'17		
retrograde	-836 Apr 23 j 11:30	5°♑17'58		
opposition	-836 Jul 03 j 09:23	1°♑56'40	-0°09'26	
min. Earth dist.	-836 Jul 03 j 17:16	1°♑55'12	8.85566 AU	
	-836 Jul 31 j 03:13	30°℞♐		
direct	-836 Sep 10 j 21:21	28°♐37'57		
	-836 Oct 21 j 08:46	0°♑		
evening set	-836 Dec 19 j 11:56	5°♑45'28		
conjunction	-835 Jan 05 j 06:12	7°♑46'22	-0°21'57	
minimum elong	-835 Jan 05 j 06:11	7°♑46'22	0°21'57	
max. Earth dist.	-835 Jan 04 j 21:00	7°♑43'36	10.80021 AU	
morning rise	-835 Jan 22 j 03:36	9°♑48'18		
retrograde	-835 May 06 j 08:46	17°♑15'38		
opposition	-835 Jul 16 j 01:14	13°♑52'45	-0°44'54	
min. Earth dist.	-835 Jul 16 j 08:20	13°♑51'25	8.74037 AU	
direct	-835 Sep 22 j 23:49	10°♑33'15		
evening set	-835 Dec 31 j 14:22	17°♑47'00		
conjunction	-834 Jan 17 j 10:55	19°♑50'07	-0°50'26	
minimum elong	-834 Jan 17 j 10:53	19°♑50'06	0°50'26	
max. Earth dist.	-834 Jan 17 j 02:02	19°♑47'24	10.67903 AU	
morning rise	-834 Feb 03 j 11:27	21°♑54'29		
retrograde	-834 May 19 j 13:02	29°♑31'53		
opposition	-834 Jul 28 j 23:12	26°♑07'22	-1°19'22	
min. Earth dist.	-834 Jul 29 j 05:36	26°♑06'08	8.61469 AU	
direct	-834 Oct 05 j 07:17	22°♑46'51		
	-833 Jan 11 j 22:51	0°♒		
evening set	-833 Jan 13 j 02:04	0°♒08'15		
conjunction	-833 Jan 30 j 01:15	2°♒13'47	-1°17'17	
minimum elong	-833 Jan 30 j 01:12	2°♒13'46	1°17'18	
max. Earth dist.	-833 Jan 29 j 17:42	2°♒11'26	10.54992 AU	
morning rise	-833 Feb 16 j 05:03	4°♒20'45		
retrograde	-833 Jun 02 j 01:06	12°♒08'55		
opposition	-833 Aug 11 j 03:42	8°♒42'45	-1°51'06	
min. Earth dist.	-833 Aug 11 j 08:54	8°♒41'44	8.48416 AU	
direct	-833 Oct 17 j 23:25	5°♒21'05		
evening set	-832 Jan 26 j 00:24	12°♒51'14		
conjunction	-832 Feb 12 j 02:43	14°♒59'24	-1°41'04	
minimum elong	-832 Feb 12 j 02:40	14°♒59'23	1°41'05	
max. Earth dist.	-832 Feb 11 j 21:47	14°♒57'51	10.41874 AU	
	-832 Feb 12 j 04:37	15°♒		
morning rise	-832 Feb 29 j 09:50	17°♒09'07		
retrograde	-832 Jun 14 j 22:47	25°♒08'07		
opposition	-832 Aug 23 j 14:48	21°♒40'23	-2°18'14	
min. Earth dist.	-832 Aug 23 j 17:51	21°♒39'47	8.35486 AU	
direct	-832 Oct 29 j 22:25	18°♒17'28		
evening set	-831 Feb 07 j 10:08	25°♒57'05		
conjunction	-831 Feb 24 j 15:57	28°♒08'01	-2°00'16	
minimum elong	-831 Feb 24 j 15:55	28°♒08'00	2°00'17	
max. Earth dist.	-831 Feb 24 j 13:42	28°♒07'18	10.29186 AU	
	-831 Mar 11 j 08:58	0°♓		
morning rise	-831 Mar 14 j 02:34	0°♓20'32		
retrograde	-831 Jun 29 j 05:41	8°♓29'44		
opposition	-831 Sep 06 j 08:30	5°♓00'38	-2°38'51	
min. Earth dist.	-831 Sep 06 j 09:08	5°♓00'31	8.23320 AU	
direct	-831 Nov 12 j 04:13	1°♓36'26		
evening set	-830 Feb 21 j 07:26	9°♓25'47		
conjunction	-830 Mar 10 j 17:01	11°♓39'28	-2°13'24	
minimum elong	-830 Mar 10 j 17:00	11°♓39'27	2°13'25	
max. Earth dist.	-830 Mar 10 j 17:15	11°♓39'32	10.17598 AU	
morning rise	-830 Mar 28 j 07:18	13°♓54'42		
retrograde	-830 Jul 13 j 18:39	22°♓12'41		
opposition	-830 Sep 20 j 08:15	18°♓42'32	-2°51'07	
min. Earth dist.	-830 Sep 20 j 06:41	18°♓42'51	8.12587 AU	
direct	-830 Nov 25 j 19:07	15°♓17'01		
evening set	-829 Mar 07 j 15:46	23°♓15'43		
conjunction	-829 Mar 25 j 05:27	25°♓32'03	-2°19'12	
minimum elong	-829 Mar 25 j 05:27	25°♓32'03	2°19'12	
max. Earth dist.	-829 Mar 25 j 07:48	25°♓32'49	10.07796 AU	
morning rise	-829 Apr 11 j 23:36	27°♓49'50		
	-829 Apr 29 j 12:03	0°♈		
retrograde	-829 Jul 28 j 12:24	6°♈14'21		
opposition	-829 Oct 04 j 13:08	2°♈43'31	-2°53'35	
min. Earth dist.	-829 Oct 04 j 09:53	2°♈44'11	8.03941 AU	
	-829 Nov 11 j 20:55	30°℞♓		
direct	-829 Dec 09 j 18:07	29°♓16'45		
	-828 Jan 06 j 10:11	0°♈		
evening set	-828 Mar 21 j 09:47	7°♈23'41		
conjunction	-828 Apr 08 j 03:49	9°♈42'24	-2°16'46	
minimum elong	-828 Apr 08 j 03:50	9°♈42'24	2°16'47	
max. Earth dist.	-828 Apr 08 j 08:14	9°♈43'51	10.00399 AU	
morning rise	-828 Apr 26 j 01:45	12°♈02'21		
retrograde	-828 Aug 11 j 08:55	20°♈30'28		
opposition	-828 Oct 17 j 21:39	16°♈59'23	-2°45'27	
min. Earth dist.	-828 Oct 17 j 17:06	17°♈00'20	7.97940 AU	
direct	-828 Dec 23 j 00:17	13°♈31'31		
evening set	-827 Apr 05 j 11:36	21°♈44'56		

Attention, astronomical year style is used: The year -827 in astronomical counting style is the year 828 BCE in historical counting style.

conjunction	-827 Apr 23 j 09:49	24°♈05'33	-2°05'53	
minimum elong	-827 Apr 23 j 09:51	24°♈05'34	2°05'53	
max. Earth dist.	-827 Apr 23 j 16:28	24°♈07'44	9.95903 AU	
morning rise	-827 May 11 j 11:00	26°♈27'06		
	-827 Jun 09 j 14:07	0°♉		
retrograde	-827 Aug 26 j 05:36	4°♉55'27		
opposition	-827 Nov 01 j 07:55	1°♉24'34	-2°26'48	
min. Earth dist.	-827 Nov 01 j 01:57	1°♉25'49	7.95002 AU	
	-827 Nov 18 j 18:14	30°℞♈		
direct	-826 Jan 06 j 12:17	27°♈55'49		
	-826 Feb 23 j 08:19	0°♉		
evening set	-826 Apr 20 j 18:20	6°♉13'26		
conjunction	-826 May 08 j 20:09	8°♉35'15	-1°47'01	
minimum elong	-826 May 08 j 20:13	8°♉35'16	1°47'01	
max. Earth dist.	-826 May 09 j 04:58	8°♉38'09	9.94641 AU	
morning rise	-826 May 26 j 23:42	10°♉57'36		
	-826 Jun 29 j 13:51	15°♉		
retrograde	-826 Sep 09 j 23:51	19°♉22'51		
opposition	-826 Nov 15 j 18:09	15°♉52'36	-1°58'46	
min. Earth dist.	-826 Nov 15 j 10:42	15°♉54'09	7.95363 AU	
	-826 Nov 26 j 09:14	15°℞♉		
direct	-825 Jan 21 j 04:52	12°♉23'15		
	-825 Mar 16 j 13:47	15°♉		
evening set	-825 May 06 j 02:52	20°♉42'27		
conjunction	-825 May 24 j 07:13	23°♉04'36	-1°21'25	
minimum elong	-825 May 24 j 07:16	23°♉04'38	1°21'25	
max. Earth dist.	-825 May 24 j 17:50	23°♉08'06	9.96722 AU	
morning rise	-825 Jun 11 j 11:50	25°♉26'50		
	-825 Jul 20 j 02:37	0°♊		
retrograde	-825 Sep 24 j 12:43	3°♊45'57		
opposition	-825 Nov 30 j 02:20	0°♊16'44	-1°23'22	
min. Earth dist.	-825 Nov 29 j 17:36	0°♊18'33	7.99014 AU	
	-825 Dec 03 j 10:59	30°℞♉		
direct	-824 Feb 04 j 22:21	26°♉47'05		
	-824 Apr 06 j 04:04	0°♊		
evening set	-824 May 20 j 10:15	5°♊05'17		
conjunction	-824 Jun 07 j 15:31	7°♊26'48	-0°50'56	
minimum elong	-824 Jun 07 j 15:34	7°♊26'49	0°50'55	
max. Earth dist.	-824 Jun 08 j 03:21	7°♊30'39	10.01999 AU	
morning rise	-824 Jun 25 j 19:33	9°♊47'55		
retrograde	-824 Oct 07 j 19:12	17°♊58'31		
opposition	-824 Dec 13 j 06:44	14°♊30'39	-0°43'15	
min. Earth dist.	-824 Dec 12 j 21:26	14°♊32'35	8.05713 AU	
direct	-823 Feb 18 j 14:19	11°♊01'02		
evening set	-823 Jun 04 j 13:06	19°♊15'47		
conjunction	-823 Jun 22 j 17:29	21°♊35'43	-0°17'46	
minimum elong	-823 Jun 22 j 17:30	21°♊35'43	0°17'45	
max. Earth dist.	-823 Jun 23 j 05:35	21°♊39'37	10.10113 AU	
morning rise	-823 Jul 10 j 19:16	23°♊54'49		
	-823 Sep 05 j 09:35	0°♋		
retrograde	-823 Oct 21 j 18:13	1°♋55'23		
	-823 Dec 08 j 01:28	30°℞♊		
opposition	-823 Dec 27 j 06:08	28°♊29'04	-0°01'21	
min. Earth dist.	-823 Dec 26 j 21:13	28°♊30'53	8.15018 AU	
asc. node	-822 Jan 08 j 10:02	27°♊30'12		
direct	-822 Mar 05 j 02:17	24°♊59'44		
	-822 May 23 j 20:22	0°♋		
evening set	-822 Jun 19 j 08:29	3°♋08'59		
conjunction	-822 Jul 07 j 10:16	5°♋26'32	0°15'52	
minimum elong	-822 Jul 07 j 10:15	5°♋26'32	0°15'53	
max. Earth dist.	-822 Jul 07 j 21:28	5°♋30'06	10.20521 AU	
morning rise	-822 Jul 25 j 08:24	7°♋42'55		
retrograde	-822 Nov 04 j 08:45	15°♋32'43		
opposition	-821 Jan 09 j 23:25	12°♋08'02	0°39'35	
min. Earth dist.	-821 Jan 09 j 15:40	12°♋09'36	8.26317 AU	
direct	-821 Mar 19 j 10:08	8°♋39'15		
evening set	-821 Jul 03 j 18:44	16°♋41'30		
conjunction	-821 Jul 21 j 16:29	18°♋56'04	0°47'48	
minimum elong	-821 Jul 21 j 16:26	18°♋56'04	0°47'49	
max. Earth dist.	-821 Jul 22 j 01:37	18°♋58'57	10.32538 AU	
morning rise	-821 Aug 08 j 09:54	21°♋09'16		
retrograde	-821 Nov 17 j 11:54	28°♋48'15		
opposition	-820 Jan 23 j 09:51	25°♋25'13	1°17'11	
min. Earth dist.	-820 Jan 23 j 03:43	25°♋26'26	8.38875 AU	
direct	-820 Apr 01 j 12:43	21°♋57'12		
evening set	-820 Jul 16 j 18:16	29°♋51'30		
	-820 Jul 17 j 22:09	0°♌		
conjunction	-820 Aug 03 j 11:02	2°♌02'47	1°16'26	
minimum elong	-820 Aug 03 j 10:59	2°♌02'46	1°16'27	
max. Earth dist.	-820 Aug 03 j 17:24	2°♌04'46	10.45397 AU	
morning rise	-820 Aug 20 j 23:07	4°♌12'35		
retrograde	-820 Nov 29 j 06:35	11°♌41'27		
opposition	-819 Feb 04 j 13:39	8°♌19'57	1°49'42	
min. Earth dist.	-819 Feb 04 j 08:52	8°♌20'53	8.51900 AU	
direct	-819 Apr 15 j 07:31	4°♌52'56		
evening set	-819 Jul 30 j 06:22	12°♌38'51		
conjunction	-819 Aug 16 j 17:48	14°♌46'50	1°40'32	
minimum elong	-819 Aug 16 j 17:45	14°♌46'49	1°40'33	
max. Earth dist.	-819 Aug 16 j 21:50	14°♌48'04	10.58325 AU	
	-819 Aug 18 j 12:39	15°♌		
morning rise	-819 Sep 03 j 00:20	16°♌53'18		
retrograde	-819 Dec 11 j 19:28	24°♌13'13		
opposition	-818 Feb 17 j 11:02	20°♌53'06	2°15'56	
min. Earth dist.	-818 Feb 17 j 07:42	20°♌53'45	8.64660 AU	
direct	-818 Apr 28 j 17:01	17°♌27'15		
evening set	-818 Aug 12 j 07:33	25°♌04'51		
conjunction	-818 Aug 29 j 13:47	27°♌09'45	1°59'18	
minimum elong	-818 Aug 29 j 13:44	27°♌09'44	1°59'18	
max. Earth dist.	-818 Aug 29 j 16:02	27°♌10'26	10.70688 AU	
morning rise	-818 Sep 15 j 14:58	29°♌13'10		
	-818 Sep 22 j 06:15	0°♍		
retrograde	-818 Dec 24 j 00:50	6°♍25'21		
opposition	-817 Mar 02 j 02:35	3°♍06'27	2°35'12	
min. Earth dist.	-817 Mar 02 j 01:12	3°♍06'43	8.76606 AU	
	-817 Apr 22 j 11:27	30°℞♌		
direct	-817 May 11 j 18:39	29°♌41'48		
	-817 May 31 j 00:49	0°♍		
evening set	-817 Aug 24 j 22:33	7°♍11'28		
conjunction	-817 Sep 10 j 23:51	9°♍13'35	2°12'17	
minimum elong	-817 Sep 10 j 23:49	9°♍13'35	2°12'17	
max. Earth dist.	-817 Sep 11 j 00:01	9°♍13'38	10.82016 AU	
morning rise	-817 Sep 27 j 20:18	11°♍14'19		
retrograde	-816 Jan 05 j 00:54	18°♍20'07		
opposition	-816 Mar 13 j 13:24	15°♍02'13	2°47'14	
min. Earth dist.	-816 Mar 13 j 14:32	15°♍02'00	8.87309 AU	
direct	-816 May 23 j 13:54	11°♍38'45		
evening set	-816 Sep 05 j 04:03	19°♍00'57		
conjunction	-816 Sep 22 j 00:56	21°♍00'41	2°19'22	
minimum elong	-816 Sep 22 j 00:55	21°♍00'41	2°19'22	
max. Earth dist.	-816 Sep 21 j 22:17	20°♍59'54	10.91913 AU	
morning rise	-816 Oct 08 j 17:39	22°♍59'13		
retrograde	-815 Jan 15 j 20:00	0°♎00'01		
	-815 Jan 15 j 05:26	0°♎		

Attention, astronomical year style is used: The year -815 in astronomical counting style is the year 816 BCE in historical counting style.

	-815 Jan 16 j 10:35	30°℞♍	
opposition	-815 Mar 25 j 19:59	26°♍42'47	2°52'04
min. Earth dist.	-815 Mar 25 j 22:59	26°♍42'13	8.96389 AU
direct	-815 Jun 05 j 02:12	23°♍20'27	
	-815 Sep 11 j 20:13	0°♎	
evening set	-815 Sep 17 j 01:20	0°♎35'53	
conjunction	-815 Oct 03 j 18:44	2°♎33'44	2°20'36
minimum elong	-815 Oct 03 j 18:44	2°♎33'44	2°20'36
max. Earth dist.	-815 Oct 03 j 13:57	2°♎32'19	11.00037 AU
morning rise	-815 Oct 20 j 08:40	4°♎30'35	
retrograde	-814 Jan 27 j 11:41	11°♎27'50	
opposition	-814 Apr 06 j 22:59	8°♎10'57	2°49'55
min. Earth dist.	-814 Apr 07 j 03:04	8°♎10'12	9.03522 AU
direct	-814 Jun 17 j 10:03	4°♎49'38	
evening set	-814 Sep 28 j 15:42	11°♎59'14	
conjunction	-814 Oct 15 j 06:42	13°♎55'44	2°16'15
minimum elong	-814 Oct 15 j 06:43	13°♎55'44	2°16'15
max. Earth dist.	-814 Oct 15 j 01:00	13°♎54'03	11.06096 AU
morning rise	-814 Oct 31 j 18:41	15°♎51'25	
retrograde	-813 Feb 08 j 03:39	22°♎46'34	
opposition	-813 Apr 18 j 23:41	19°♎29'47	2°41'13
min. Earth dist.	-813 Apr 19 j 04:39	19°♎28'52	9.08454 AU
direct	-813 Jun 29 j 11:42	16°♎09'22	
evening set	-813 Oct 10 j 00:55	23°♎14'12	
conjunction	-813 Oct 26 j 14:14	25°♎09'51	2°06'40
minimum elong	-813 Oct 26 j 14:16	25°♎09'51	2°06'40
max. Earth dist.	-813 Oct 26 j 07:40	25°♎07'55	11.09880 AU
morning rise	-813 Nov 12 j 01:13	27°♎04'54	
	-813 Dec 09 j 00:32	0°♏	
retrograde	-812 Feb 19 j 17:49	3°♏59'28	
opposition	-812 Apr 29 j 23:09	0°♏42'33	2°26'28
min. Earth dist.	-812 Apr 30 j 05:43	0°♏41'20	9.11035 AU
	-812 May 09 j 16:15	30°℞♎	
direct	-812 Jul 10 j 08:25	27°♎22'52	
	-812 Sep 07 j 02:13	0°♏	
evening set	-812 Oct 20 j 06:46	4°♏24'12	
conjunction	-812 Nov 05 j 19:06	6°♏19'29	1°52'17
minimum elong	-812 Nov 05 j 19:08	6°♏19'30	1°52'18
max. Earth dist.	-812 Nov 05 j 10:41	6°♏17'01	11.11288 AU
morning rise	-812 Nov 22 j 06:09	8°♏14'27	
	-811 Feb 16 j 02:43	15°♏	
retrograde	-811 Mar 02 j 09:20	15°♏10'00	
	-811 Mar 16 j 18:23	15°℞♏	
opposition	-811 May 11 j 22:17	11°♏52'41	2°06'14
min. Earth dist.	-811 May 12 j 06:11	11°♏51'14	9.11202 AU
direct	-811 Jul 22 j 04:05	8°♏33'33	
	-811 Oct 26 j 15:44	15°♏	
evening set	-811 Oct 31 j 10:47	15°♏32'44	
conjunction	-811 Nov 16 j 23:00	17°♏28'10	1°33'40
minimum elong	-811 Nov 16 j 23:03	17°♏28'11	1°33'39
max. Earth dist.	-811 Nov 16 j 13:33	17°♏25'24	11.10279 AU
morning rise	-811 Dec 03 j 10:54	19°♏23'32	
retrograde	-810 Mar 14 j 02:38	26°♏21'39	
opposition	-810 May 23 j 22:06	23°♏03'41	1°41'12
min. Earth dist.	-810 May 24 j 06:15	23°♏02'11	9.08940 AU
direct	-810 Aug 02 j 21:46	19°♏44'57	
evening set	-810 Nov 11 j 14:57	26°♏43'29	
conjunction	-810 Nov 28 j 03:49	28°♏39'30	1°11'24
minimum elong	-810 Nov 28 j 03:51	28°♏39'30	1°11'22
max. Earth dist.	-810 Nov 27 j 18:48	28°♏36'50	11.06865 AU
	-810 Dec 09 j 13:53	0°♐	

morning rise	-810 Dec 14 j 17:00	0°♐35'42	
retrograde	-809 Mar 26 j 01:37	7°♐37'59	
opposition	-809 Jun 04 j 23:48	4°♐19'10	1°12'06
min. Earth dist.	-809 Jun 05 j 07:29	4°♐17'45	9.04312 AU
direct	-809 Aug 14 j 15:48	1°♐00'39	
evening set	-809 Nov 22 j 21:11	8°♐00'01	
conjunction	-809 Dec 09 j 11:08	9°♐57'04	0°46'10
minimum elong	-809 Dec 09 j 11:10	9°♐57'04	0°46'09
max. Earth dist.	-809 Dec 09 j 02:03	9°♐54'22	11.01155 AU
morning rise	-809 Dec 26 j 02:14	11°♐54'32	
retrograde	-808 Apr 06 j 05:51	19°♐02'31	
opposition	-808 Jun 16 j 04:43	15°♐42'42	0°39'49
min. Earth dist.	-808 Jun 16 j 12:25	15°♐41'16	8.97485 AU
direct	-808 Aug 25 j 08:51	12°♐24'09	
evening set	-808 Dec 03 j 07:12	19°♐25'56	
conjunction	-808 Dec 19 j 22:35	21°♐24'22	0°18'47
minimum elong	-808 Dec 19 j 22:36	21°♐24'22	0°18'46
max. Earth dist.	-808 Dec 19 j 12:56	21°♐21'30	10.93350 AU
morning rise	-807 Jan 05 j 16:12	23°♐23'31	
	-807 Mar 21 j 08:50	0°♑	
retrograde	-807 Apr 18 j 14:20	0°♑38'41	
	-807 May 17 j 05:44	30°℞♐	
opposition	-807 Jun 28 j 13:39	27°♐17'40	0°05'20
min. Earth dist.	-807 Jun 28 j 21:35	27°♐16'11	8.88696 AU
desc. node	-807 Aug 24 j 17:12	24°♐06'47	
direct	-807 Sep 06 j 06:00	23°♐58'51	
	-807 Dec 05 j 16:08	0°♑	
evening set	-807 Dec 14 j 22:57	1°♑04'41	
conjunction	-807 Dec 31 j 16:13	3°♑04'51	-0°09'55
minimum elong	-807 Dec 31 j 16:13	3°♑04'51	0°09'55
behind sun begin	-807 Dec 31 j 10:29	3°♑03'09	
behind sun end	-807 Dec 31 j 21:57	3°♑06'34	
max. Earth dist.	-807 Dec 31 j 07:01	3°♑02'06	10.83718 AU
morning rise	-806 Jan 17 j 12:34	5°♑05'58	
retrograde	-806 May 01 j 07:29	12°♑29'41	
opposition	-806 Jul 11 j 03:21	9°♑07'20	-0°30'08
min. Earth dist.	-806 Jul 11 j 10:36	9°♑05'58	8.78272 AU
direct	-806 Sep 18 j 07:52	5°♑48'02	
evening set	-806 Dec 26 j 21:55	12°♑59'25	
conjunction	-805 Jan 12 j 17:31	15°♑01'39	-0°38'40
minimum elong	-805 Jan 12 j 17:30	15°♑01'38	0°38'40
max. Earth dist.	-805 Jan 12 j 10:06	14°♑59'23	10.72627 AU
morning rise	-805 Jan 29 j 16:40	17°♑05'02	
retrograde	-805 May 14 j 09:24	24°♑38'24	
opposition	-805 Jul 23 j 22:58	21°♑14'37	-1°05'13
min. Earth dist.	-805 Jul 24 j 04:26	21°♑13'35	8.66632 AU
direct	-805 Sep 30 j 13:13	17°♑54'41	
evening set	-804 Jan 08 j 05:45	25°♑12'59	
conjunction	-804 Jan 25 j 03:54	27°♑17'31	-1°06'22
minimum elong	-804 Jan 25 j 03:51	27°♑17'30	1°06'22
max. Earth dist.	-804 Jan 24 j 22:15	27°♑15'46	10.60538 AU
morning rise	-804 Feb 11 j 06:07	29°♑23'22	
	-804 Feb 16 j 08:12	0°♒	
retrograde	-804 May 26 j 19:21	7°♒07'11	
opposition	-804 Aug 05 j 00:57	3°♒41'57	-1°38'17
min. Earth dist.	-804 Aug 05 j 04:36	3°♒41'14	8.54273 AU
direct	-804 Oct 12 j 01:40	0°♒21'09	
evening set	-803 Jan 19 j 23:57	7°♒47'36	
conjunction	-803 Feb 06 j 00:52	9°♒54'37	-1°31'35
minimum elong	-803 Feb 06 j 00:49	9°♒54'37	1°31'36
max. Earth dist.	-803 Feb 05 j 20:21	9°♒53'13	10.47992 AU

Attention, astronomical year style is used: The year -803 in astronomical counting style is the year 804 BCE in historical counting style.

morning rise	-803 Feb 23 j 06:26	12°♒03'08	
	-803 Mar 20 j 13:15	15°♒	
retrograde	-803 Jun 09 j 14:33	19°♒57'35	
opposition	-803 Aug 18 j 09:26	16°♒30'57	-2°07'31
min. Earth dist.	-803 Aug 18 j 11:46	16°♒30'30	8.41765 AU
	-803 Sep 07 j 10:40	15°℞♒	
direct	-803 Oct 24 j 20:32	13°♒09'06	
	-803 Dec 09 j 17:09	15°♒	
evening set	-802 Feb 02 j 05:10	20°♒44'35	
conjunction	-802 Feb 19 j 09:13	22°♒54'14	-1°52'51
minimum elong	-802 Feb 19 j 09:10	22°♒54'13	1°52'51
max. Earth dist.	-802 Feb 19 j 06:10	22°♒53'16	10.35587 AU
morning rise	-802 Mar 08 j 18:19	25°♒05'28	
	-802 Apr 21 j 19:09	0°♓	
retrograde	-802 Jun 23 j 17:45	3°♓10'12	
	-802 Aug 28 j 07:24	30°℞♒	
opposition	-802 Sep 01 j 00:41	29°♒42'16	-2°31'00
min. Earth dist.	-802 Sep 01 j 01:49	29°♒42'03	8.29715 AU
direct	-802 Nov 06 j 23:22	26°♒19'14	
	-801 Jan 11 j 18:07	0°♓	
evening set	-801 Feb 15 j 21:33	4°♓04'07	
conjunction	-801 Mar 05 j 05:14	6°♓16'26	-2°08'38
minimum elong	-801 Mar 05 j 05:12	6°♓16'26	2°08'38
max. Earth dist.	-801 Mar 05 j 04:30	6°♓16'13	10.23940 AU
morning rise	-801 Mar 22 j 17:58	8°♓30'22	
retrograde	-801 Jul 08 j 02:46	16°♓44'17	
opposition	-801 Sep 14 j 22:03	13°♓15'14	-2°46'52
min. Earth dist.	-801 Sep 14 j 21:36	13°♓15'19	8.18720 AU
direct	-801 Nov 20 j 12:20	9°♓50'54	
evening set	-800 Mar 01 j 01:09	17°♓45'04	
conjunction	-800 Mar 18 j 12:56	20°♓00'03	-2°17'34
minimum elong	-800 Mar 18 j 12:56	20°♓00'02	2°17'35
max. Earth dist.	-800 Mar 18 j 14:43	20°♓00'37	10.13633 AU
morning rise	-800 Apr 05 j 05:24	22°♓16'32	
	-800 Jun 25 j 01:51	0°♈	
retrograde	-800 Jul 21 j 17:21	0°♈37'46	
	-800 Aug 17 j 12:27	30°℞♓	
opposition	-800 Sep 28 j 00:31	27°♓07'52	-2°53'30
min. Earth dist.	-800 Sep 27 j 22:21	27°♓08'18	8.09320 AU
direct	-800 Dec 03 j 08:25	23°♓42'16	
	-799 Mar 01 j 14:48	0°♈	
evening set	-799 Mar 15 j 14:58	1°♈45'02	
conjunction	-799 Apr 02 j 07:09	4°♈02'32	-2°18'37
minimum elong	-799 Apr 02 j 07:09	4°♈02'32	2°18'38
max. Earth dist.	-799 Apr 02 j 11:20	4°♈03'54	10.05208 AU
morning rise	-799 Apr 20 j 03:17	6°♈21'20	
retrograde	-799 Aug 05 j 12:53	14°♈47'27	
opposition	-799 Oct 12 j 07:15	11°♈17'04	-2°49'49
min. Earth dist.	-799 Oct 12 j 03:07	11°♈17'56	8.02070 AU
direct	-799 Dec 17 j 10:52	7°♈50'18	
evening set	-798 Mar 30 j 13:16	16°♈00'20	
conjunction	-798 Apr 17 j 09:44	18°♈19'58	-2°11'16
minimum elong	-798 Apr 17 j 09:47	18°♈19'59	2°11'16
max. Earth dist.	-798 Apr 17 j 16:09	18°♈22'04	9.99263 AU
morning rise	-798 May 05 j 09:19	20°♈40'39	
retrograde	-798 Aug 20 j 10:08	29°♈08'34	
opposition	-798 Oct 26 j 16:40	25°♈38'05	-2°35'32
min. Earth dist.	-798 Oct 26 j 10:53	25°♈39'17	7.97555 AU
direct	-798 Dec 31 j 19:28	22°♈10'15	
	-797 Apr 11 j 10:12	0°♉	
evening set	-797 Apr 14 j 17:54	0°♉25'32	
conjunction	-797 May 02 j 18:15	2°♉46'43	-1°55'40
minimum elong	-797 May 02 j 18:19	2°♉46'45	1°55'40
max. Earth dist.	-797 May 03 j 02:25	2°♉49'24	9.96318 AU
morning rise	-797 May 20 j 20:41	5°♉08'36	
retrograde	-797 Sep 04 j 06:09	13°♉34'53	
opposition	-797 Nov 10 j 02:46	10°♉04'42	-2°11'19
min. Earth dist.	-797 Nov 09 j 20:01	10°♉06'06	7.96182 AU
direct	-796 Jan 15 j 09:43	6°♉35'57	
evening set	-796 Apr 29 j 01:49	14°♉54'03	
	-796 Apr 29 j 20:19	15°♉	
conjunction	-796 May 17 j 05:08	17°♉15'59	-1°32'45
minimum elong	-796 May 17 j 05:11	17°♉16'00	1°32'45
max. Earth dist.	-796 May 17 j 14:26	17°♉19'02	9.96634 AU
morning rise	-796 Jun 04 j 09:19	19°♉38'11	
retrograde	-796 Sep 17 j 21:14	27°♉59'34	
opposition	-796 Nov 23 j 11:42	24°♉30'06	-1°38'50
min. Earth dist.	-796 Nov 23 j 04:27	24°♉31'36	7.98081 AU
direct	-795 Jan 29 j 02:58	21°♉00'42	
evening set	-795 May 14 j 09:35	29°♉18'57	
	-795 May 19 j 17:15	0°♊	
conjunction	-795 Jun 01 j 14:26	1°♊40'41	-1°04'09
minimum elong	-795 Jun 01 j 14:29	1°♊40'42	1°04'08
max. Earth dist.	-795 Jun 02 j 00:15	1°♊43'53	10.00193 AU
morning rise	-795 Jun 19 j 18:52	4°♊02'14	
retrograde	-795 Oct 02 j 05:27	12°♊16'06	
opposition	-795 Dec 07 j 17:30	8°♊47'40	-1°00'28
min. Earth dist.	-795 Dec 07 j 10:03	8°♊49'12	8.03127 AU
direct	-794 Feb 12 j 20:01	5°♊17'55	
evening set	-794 May 29 j 14:01	13°♊33'48	
conjunction	-794 Jun 16 j 18:47	15°♊54'22	-0°31'55
minimum elong	-794 Jun 16 j 18:49	15°♊54'23	0°31'55
max. Earth dist.	-794 Jun 17 j 04:34	15°♊57'32	10.06744 AU
morning rise	-794 Jul 04 j 21:50	18°♊14'20	
retrograde	-794 Oct 16 j 06:20	26°♊18'48	
opposition	-794 Dec 21 j 18:32	22°♊51'39	-0°19'05
min. Earth dist.	-794 Dec 21 j 10:50	22°♊53'13	8.10970 AU
direct	-793 Feb 27 j 10:25	19°♊21'53	
asc. node	-793 Jun 12 j 12:46	27°♊25'51	
evening set	-793 Jun 13 j 12:13	27°♊33'12	
conjunction	-793 Jul 01 j 15:15	29°♊51'47	0°01'44
minimum elong	-793 Jul 01 j 15:15	29°♊51'47	0°01'45
behind sun begin	-793 Jul 01 j 07:55	29°♊49'27	
behind sun end	-793 Jul 01 j 22:35	29°♊54'06	
max. Earth dist.	-793 Jul 02 j 00:47	29°♊54'49	10.15824 AU
	-793 Jul 02 j 16:53	0°♋	
morning rise	-793 Jul 19 j 15:18	2°♋09'21	
retrograde	-793 Oct 29 j 23:10	10°♋03'24	
opposition	-792 Jan 04 j 13:50	6°♋37'41	0°22'28
min. Earth dist.	-792 Jan 04 j 06:08	6°♋39'15	8.21068 AU
direct	-792 Mar 12 j 20:22	3°♋08'14	
evening set	-792 Jun 27 j 02:00	11°♋13'18	
conjunction	-792 Jul 15 j 01:42	13°♋29'11	0°34'30
minimum elong	-792 Jul 15 j 01:40	13°♋29'10	0°34'32
max. Earth dist.	-792 Jul 15 j 10:42	13°♋32'02	10.26821 AU
morning rise	-792 Aug 01 j 21:20	15°♋43'46	
retrograde	-792 Nov 11 j 06:42	23°♋27'09	
opposition	-791 Jan 17 j 02:42	20°♋02'58	1°01'41
min. Earth dist.	-791 Jan 16 j 19:36	20°♋04'23	8.32784 AU
direct	-791 Mar 27 j 00:28	16°♋34'08	
evening set	-791 Jul 11 j 05:38	24°♋31'45	
conjunction	-791 Jul 29 j 00:50	26°♋44'30	1°04'41

Attention, astronomical year style is used: The year -791 in astronomical counting style is the year 792 BCE in historical counting style.

minimum elong	-791 Jul	29 j 00:47	26°♋44'29	1°04'42
max. Earth dist.	-791 Jul	29 j 08:47	26°♋47'00	10.39077 AU
morning rise	-791 Aug	15 j 15:13	28°♋55'47	
	-791 Aug	24 j 11:55	0°♌	
retrograde	-791 Nov	24 j 06:05	6°♌28'53	
opposition	-790 Jan	30 j 08:58	3°♌06'13	1°36'30
min. Earth dist.	-790 Jan	30 j 03:20	3°♌07'20	8.45449 AU
	-790 Mar	20 j 04:59	30°℞♋	
direct	-790 Apr	09 j 20:34	29°♋38'16	
	-790 Apr	30 j 12:10	0°♌	
evening set	-790 Jul	24 j 22:13	7°♌27'43	
conjunction	-790 Aug	11 j 12:11	9°♌37'11	1°30'48
minimum elong	-790 Aug	11 j 12:08	9°♌37'10	1°30'49
max. Earth dist.	-790 Aug	11 j 18:15	9°♌39'04	10.51919 AU
morning rise	-790 Aug	28 j 21:04	11°♌45'06	
	-790 Sep	26 j 10:13	15°♌	
retrograde	-790 Dec	06 j 21:22	19°♌08'42	
opposition	-789 Feb	12 j 08:44	15°♌47'31	2°05'30
min. Earth dist.	-789 Feb	12 j 05:06	15°♌48'13	8.58385 AU
	-789 Feb	22 j 13:35	15°℞♌	
direct	-789 Apr	23 j 08:53	12°♌20'38	
	-789 Jun	20 j 12:46	15°♌	
evening set	-789 Aug	07 j 03:51	20°♌01'44	
conjunction	-789 Aug	24 j 12:19	22°♌07'58	1°51'54
minimum elong	-789 Aug	24 j 12:15	22°♌07'57	1°51'55
max. Earth dist.	-789 Aug	24 j 15:30	22°♌08'56	10.64700 AU
morning rise	-789 Sep	10 j 15:50	24°♌12'41	
	-789 Nov	07 j 22:30	0°♍	
retrograde	-789 Dec	19 j 03:19	1°♍27'53	
	-788 Jan	30 j 10:27	30°℞♌	
opposition	-788 Feb	25 j 02:17	28°♌08'02	2°27'47
min. Earth dist.	-788 Feb	25 j 00:13	28°♌08'26	8.70966 AU
direct	-788 May	05 j 14:42	24°♌42'24	
	-788 Jul	30 j 03:30	0°♍	
evening set	-788 Aug	18 j 22:39	2°♍15'16	
conjunction	-788 Sep	05 j 01:56	4°♍18'31	2°07'23
minimum elong	-788 Sep	05 j 01:54	4°♍18'30	2°07'24
max. Earth dist.	-788 Sep	05 j 02:53	4°♍18'48	10.76842 AU
morning rise	-788 Sep	22 j 00:33	6°♍20'21	
retrograde	-788 Dec	30 j 05:08	13°♍28'28	
opposition	-787 Mar	08 j 14:29	10°♍09'48	2°42'54
min. Earth dist.	-787 Mar	08 j 13:26	10°♍10'00	8.82631 AU
direct	-787 May	18 j 13:24	6°♍45'30	
evening set	-787 Aug	31 j 07:19	14°♍10'30	
conjunction	-787 Sep	17 j 06:08	16°♍11'11	2°17'00
minimum elong	-787 Sep	17 j 06:07	16°♍11'10	2°16'59
max. Earth dist.	-787 Sep	17 j 05:48	16°♍11'05	10.87825 AU
morning rise	-787 Oct	04 j 00:28	18°♍10'33	
retrograde	-786 Jan	11 j 02:44	25°♍12'59	
opposition	-786 Mar	20 j 22:01	21°♍55'15	2°50'47
min. Earth dist.	-786 Mar	20 j 22:21	21°♍55'11	8.92893 AU
direct	-786 May	31 j 02:52	18°♍32'19	
evening set	-786 Sep	12 j 07:28	25°♍50'09	
conjunction	-786 Sep	29 j 02:30	27°♍48'42	2°20'43
minimum elong	-786 Sep	29 j 02:29	27°♍48'42	2°20'43
max. Earth dist.	-786 Sep	29 j 00:43	27°♍48'11	10.97205 AU
morning rise	-786 Oct	15 j 17:25	29°♍46'08	
	-786 Oct	17 j 17:24	0°♎	
retrograde	-785 Jan	22 j 19:37	6°♎44'17	
opposition	-785 Apr	02 j 01:50	3°♎27'17	2°51'36
min. Earth dist.	-785 Apr	02 j 04:24	3°♎26'48	9.01358 AU
direct	-785 Jun	12 j 10:39	0°♎05'36	
evening set	-785 Sep	24 j 00:23	7°♎17'12	
conjunction	-785 Oct	10 j 16:18	9°♎14'06	2°18'45
minimum elong	-785 Oct	10 j 16:19	9°♎14'07	2°18'44
max. Earth dist.	-785 Oct	10 j 12:06	9°♎12'52	11.04641 AU
morning rise	-785 Oct	27 j 04:58	11°♎10'07	
retrograde	-784 Feb	03 j 10:50	18°♎05'28	
opposition	-784 Apr	13 j 03:07	14°♎48'56	2°45'40
min. Earth dist.	-784 Apr	13 j 07:40	14°♎48'06	9.07726 AU
direct	-784 Jun	23 j 13:59	11°♎28'24	
evening set	-784 Oct	04 j 11:20	18°♎34'43	
conjunction	-784 Oct	21 j 01:06	20°♎30'32	2°11'23
minimum elong	-784 Oct	21 j 01:07	20°♎30'32	2°11'23
max. Earth dist.	-784 Oct	20 j 18:53	20°♎28'42	11.09880 AU
morning rise	-784 Nov	06 j 12:31	22°♎25'40	
retrograde	-783 Feb	14 j 00:02	29°♎19'46	
opposition	-783 Apr	25 j 02:37	26°♎03'20	2°33'28
min. Earth dist.	-783 Apr	25 j 08:03	26°♎02'20	9.11774 AU
direct	-783 Jul	05 j 13:15	22°♎43'48	
evening set	-783 Oct	15 j 18:10	29°♎46'01	
	-783 Oct	17 j 18:56	0°♏	
conjunction	-783 Nov	01 j 06:50	1°♏41'14	1°59'02
minimum elong	-783 Nov	01 j 06:52	1°♏41'14	1°59'02
max. Earth dist.	-783 Nov	01 j 00:04	1°♏39'15	11.12731 AU
morning rise	-783 Nov	17 j 17:44	3°♏36'00	
retrograde	-782 Feb	25 j 16:25	10°♏30'21	
opposition	-782 May	07 j 01:12	7°♏13'46	2°15'34
min. Earth dist.	-782 May	07 j 07:17	7°♏12'39	9.13351 AU
direct	-782 Jul	17 j 09:53	3°♏55'00	
evening set	-782 Oct	26 j 22:39	10°♏54'24	
conjunction	-782 Nov	12 j 10:55	12°♏49'32	1°42'14
minimum elong	-782 Nov	12 j 10:57	12°♏49'33	1°42'13
max. Earth dist.	-782 Nov	12 j 03:16	12°♏47'18	11.13074 AU
morning rise	-782 Nov	28 j 22:08	14°♏44'27	
	-782 Dec	01 j 04:36	15°♏	
retrograde	-781 Mar	09 j 08:53	21°♏40'34	
opposition	-781 May	19 j 00:24	18°♏23'33	1°52'35
min. Earth dist.	-781 May	19 j 07:42	18°♏22'13	9.12378 AU
direct	-781 Jul	29 j 01:58	15°♏05'19	
evening set	-781 Nov	07 j 02:25	22°♏03'19	
conjunction	-781 Nov	23 j 14:48	23°♏58'48	1°21'31
minimum elong	-781 Nov	23 j 14:50	23°♏58'49	1°21'30
max. Earth dist.	-781 Nov	23 j 05:22	23°♏56'02	11.10862 AU
morning rise	-781 Dec	10 j 03:13	25°♏54'21	
	-780 Jan	18 j 14:25	0°♐	
retrograde	-780 Mar	20 j 04:09	2°♐53'52	
	-780 May	24 j 14:33	30°℞♏	
opposition	-780 May	30 j 01:06	29°♏36'07	1°25'14
min. Earth dist.	-780 May	30 j 09:53	29°♏34'30	9.08843 AU
direct	-780 Aug	08 j 19:46	26°♏18'07	
	-780 Oct	17 j 20:26	0°♐	
evening set	-780 Nov	17 j 07:23	3°♐16'16	
conjunction	-780 Dec	03 j 20:35	5°♐12'35	0°57'32
minimum elong	-780 Dec	03 j 20:37	5°♐12'35	0°57'31
max. Earth dist.	-780 Dec	03 j 10:06	5°♐09'29	11.06108 AU
morning rise	-780 Dec	20 j 10:48	7°♐09'14	
retrograde	-779 Apr	01 j 04:57	14°♐13'45	
opposition	-779 Jun	11 j 04:07	10°♐55'01	0°54'19
min. Earth dist.	-779 Jun	11 j 13:16	10°♐53'20	9.02809 AU
direct	-779 Aug	20 j 13:58	7°♐37'01	
evening set	-779 Nov	28 j 15:16	14°♐36'58	

Attention, astronomical year style is used: The year -779 in astronomical counting style is the year 780 BCE in historical counting style.

conjunction	-779 Dec 15 j 05:57	16°♐34'33	0°31'03	
minimum elong	-779 Dec 15 j 05:58	16°♐34'33	0°31'02	
max. Earth dist.	-779 Dec 14 j 19:45	16°♐31'31	10.98931 AU	
morning rise	-779 Dec 31 j 22:17	18°♐32'42		
retrograde	-778 Apr 13 j 11:23	25°♐43'52		
opposition	-778 Jun 23 j 10:47	22°♐23'54	0°20'45	
min. Earth dist.	-778 Jun 23 j 19:22	22°♐22'19	8.94486 AU	
direct	-778 Sep 01 j 09:44	19°♐05'40		
evening set	-778 Dec 10 j 04:03	26°♐09'01		
conjunction	-778 Dec 26 j 20:28	28°♐08'13	0°02'56	
minimum elong	-778 Dec 26 j 20:29	28°♐08'14	0°02'56	
behind sun begin	-778 Dec 26 j 13:30	28°♐06'10		
behind sun end	-778 Dec 27 j 03:27	28°♐10'18		
max. Earth dist.	-778 Dec 26 j 10:40	28°♐05'18	10.89624 AU	
	-777 Jan 11 j 11:14	0°♑		
morning rise	-777 Jan 12 j 15:18	0°♑08'15		
desc. node	-777 Feb 02 j 14:55	2°♑30'09		
retrograde	-777 Apr 26 j 01:58	7°♑27'31		
opposition	-777 Jul 05 j 22:12	4°♑06'07	-0°14'23	
min. Earth dist.	-777 Jul 06 j 06:06	4°♑04'38	8.84243 AU	
direct	-777 Sep 13 j 08:27	0°♑47'21		
evening set	-777 Dec 21 j 23:31	7°♑55'39		
conjunction	-776 Jan 07 j 17:55	9°♑56'49	-0°25'57	
minimum elong	-776 Jan 07 j 17:54	9°♑56'49	0°25'57	
max. Earth dist.	-776 Jan 07 j 07:56	9°♑53'48	10.78602 AU	
morning rise	-776 Jan 24 j 15:42	11°♑59'03		
retrograde	-776 May 07 j 23:17	19°♑27'36		
opposition	-776 Jul 17 j 15:05	16°♑04'37	-0°49'46	
min. Earth dist.	-776 Jul 17 j 22:42	16°♑03'11	8.72534 AU	
direct	-776 Sep 24 j 10:59	12°♑45'03		
evening set	-775 Jan 02 j 03:03	19°♑59'50		
conjunction	-775 Jan 18 j 23:51	22°♑03'13	-0°54'15	
minimum elong	-775 Jan 18 j 23:49	22°♑03'13	0°54'16	
max. Earth dist.	-775 Jan 18 j 14:48	22°♑00'27	10.66334 AU	
morning rise	-775 Feb 05 j 00:47	24°♑07'54		
	-775 Apr 04 j 02:33	0°♒		
retrograde	-775 May 21 j 03:41	1°♒46'43		
	-775 Jul 08 j 09:52	30°℞♑		
opposition	-775 Jul 30 j 14:00	28°♑22'04	-1°23'54	
min. Earth dist.	-775 Jul 30 j 20:39	28°♑20'48	8.59853 AU	
direct	-775 Oct 06 j 21:26	25°♑01'29		
	-775 Dec 25 j 03:24	0°♒		
evening set	-774 Jan 14 j 16:13	2°♒24'04		
conjunction	-774 Jan 31 j 15:47	4°♒29'56	-1°20'44	
minimum elong	-774 Jan 31 j 15:44	4°♒29'55	1°20'45	
max. Earth dist.	-774 Jan 31 j 08:55	4°♒27'48	10.53339 AU	
morning rise	-774 Feb 17 j 19:50	6°♒37'14		
retrograde	-774 Jun 03 j 18:22	14°♒26'51		
opposition	-774 Aug 12 j 19:20	11°♒00'34	-1°55'05	
min. Earth dist.	-774 Aug 13 j 00:06	10°♒59'38	8.46760 AU	
direct	-774 Oct 19 j 13:48	7°♒38'49		
	-773 Jan 26 j 06:45	15°♒		
evening set	-773 Jan 27 j 16:02	15°♒10'14		
conjunction	-773 Feb 13 j 18:44	17°♒18'45	-1°43'57	
minimum elong	-773 Feb 13 j 18:41	17°♒18'44	1°43'58	
max. Earth dist.	-773 Feb 13 j 14:32	17°♒17'26	10.40222 AU	
morning rise	-773 Mar 03 j 02:05	19°♒28'49		
retrograde	-773 Jun 17 j 17:56	27°♒29'15		
opposition	-773 Aug 26 j 07:28	24°♒01'24	-2°21'24	
min. Earth dist.	-773 Aug 26 j 09:42	24°♒00'57	8.33881 AU	
direct	-773 Nov 01 j 12:53	20°♒38'24		
evening set	-772 Feb 10 j 03:15	28°♒19'20		
	-772 Feb 23 j 09:29	0°♓		
conjunction	-772 Feb 27 j 09:23	0°♓30'36	-2°02'22	
minimum elong	-772 Feb 27 j 09:20	0°♓30'35	2°02'23	
max. Earth dist.	-772 Feb 27 j 07:19	0°♓29'56	10.27637 AU	
morning rise	-772 Mar 15 j 20:21	2°♓43'27		
retrograde	-772 Jul 01 j 01:07	10°♓53'56		
opposition	-772 Sep 08 j 02:11	7°♓24'45	-2°40'56	
min. Earth dist.	-772 Sep 08 j 02:23	7°♓24'43	8.21866 AU	
direct	-772 Nov 13 j 20:36	4°♓00'26		
evening set	-771 Feb 23 j 02:04	11°♓51'03		
conjunction	-771 Mar 12 j 11:59	14°♓05'04	-2°14'32	
minimum elong	-771 Mar 12 j 11:58	14°♓05'03	2°14'33	
max. Earth dist.	-771 Mar 12 j 11:54	14°♓05'02	10.16254 AU	
morning rise	-771 Mar 30 j 02:45	16°♓20'38		
retrograde	-771 Jul 15 j 14:33	24°♓39'37		
opposition	-771 Sep 22 j 02:40	21°♓09'24	-2°51'54	
min. Earth dist.	-771 Sep 22 j 01:14	21°♓09'42	8.11380 AU	
direct	-771 Nov 27 j 12:23	17°♓43'45		
evening set	-770 Mar 09 j 11:38	25°♓43'34		
conjunction	-770 Mar 27 j 01:43	28°♓00'12	-2°19'14	
minimum elong	-770 Mar 27 j 01:43	28°♓00'12	2°19'14	
max. Earth dist.	-770 Mar 27 j 03:51	28°♓00'54	10.06741 AU	
	-770 Apr 11 j 11:15	0°♈		
morning rise	-770 Apr 13 j 20:22	0°♈18'17		
retrograde	-770 Jul 30 j 08:56	8°♈43'25		
opposition	-770 Oct 06 j 08:10	5°♈12'33	-2°52'55	
min. Earth dist.	-770 Oct 06 j 05:09	5°♈13'10	8.03057 AU	
direct	-770 Dec 11 j 12:29	1°♈45'39		
evening set	-769 Mar 24 j 06:29	9°♈53'26		
conjunction	-769 Apr 11 j 00:59	12°♈12'23	-2°15'38	
minimum elong	-769 Apr 11 j 01:01	12°♈12'24	2°15'38	
max. Earth dist.	-769 Apr 11 j 05:44	12°♈13'57	9.99702 AU	
morning rise	-769 Apr 28 j 23:21	14°♈32'35		
retrograde	-769 Aug 14 j 05:23	23°♈00'53		
opposition	-769 Oct 20 j 16:59	19°♈29'47	-2°43'19	
min. Earth dist.	-769 Oct 20 j 12:18	19°♈30'45	7.97436 AU	
direct	-769 Dec 25 j 20:04	16°♈01'47		
evening set	-768 Apr 07 j 08:53	24°♈15'44		
conjunction	-768 Apr 25 j 07:37	26°♈36'31	-2°03'37	
minimum elong	-768 Apr 25 j 07:40	26°♈36'32	2°03'37	
max. Earth dist.	-768 Apr 25 j 15:01	26°♈38'57	9.95605 AU	
morning rise	-768 May 13 j 09:07	28°♈58'11		
	-768 May 21 j 11:12	0°♉		
retrograde	-768 Aug 28 j 01:27	7°♉26'17		
opposition	-768 Nov 03 j 03:11	3°♉55'24	-2°23'19	
min. Earth dist.	-768 Nov 02 j 20:39	3°♉56'46	7.94903 AU	
direct	-767 Jan 08 j 09:14	0°♉26'33		
evening set	-767 Apr 22 j 15:54	8°♉44'20		
conjunction	-767 May 10 j 18:09	11°♉06'13	-1°43'46	
minimum elong	-767 May 10 j 18:13	11°♉06'15	1°43'46	
max. Earth dist.	-767 May 11 j 03:53	11°♉09'26	9.94748 AU	
morning rise	-767 May 28 j 21:50	13°♉28'35		
	-767 Jun 09 j 22:56	15°♉		
retrograde	-767 Sep 11 j 18:39	21°♉53'09		
opposition	-767 Nov 17 j 13:10	18°♉22'56	-1°54'11	
min. Earth dist.	-767 Nov 17 j 05:00	18°♉24'38	7.95656 AU	
	-766 Jan 12 j 07:37	15°℞♉		
direct	-766 Jan 23 j 01:10	14°♉53'31		
	-766 Feb 02 j 17:11	15°♉		
evening set	-766 May 08 j 00:11	23°♉12'30		

Attention, astronomical year style is used: The year -766 in astronomical counting style is the year 767 BCE in historical counting style.

conjunction	-766 May 26 j 04:45	25°♉34'38	-1°17'25
minimum elong	-766 May 26 j 04:48	25°♉34'39	1°17'24
max. Earth dist.	-766 May 26 j 16:14	25°♉38'24	9.97208 AU
morning rise	-766 Jun 13 j 09:18	27°♉56'44	
	-766 Jun 29 j 20:00	0°♊	
retrograde	-766 Sep 26 j 07:12	6°♊14'53	
opposition	-766 Dec 01 j 20:53	2°♊45'43	-1°18'01
min. Earth dist.	-766 Dec 01 j 11:44	2°♊47'37	7.99669 AU
	-765 Jan 09 j 09:28	30°℞♉	
direct	-765 Feb 06 j 17:20	29°♉16'01	
	-765 Mar 07 j 00:11	0°♊	
evening set	-765 May 23 j 06:58	7°♊33'42	
conjunction	-765 Jun 10 j 12:13	9°♊55'04	-0°46'27
minimum elong	-765 Jun 10 j 12:15	9°♊55'05	0°46'27
max. Earth dist.	-765 Jun 11 j 00:29	9°♊59'04	10.02827 AU
morning rise	-765 Jun 28 j 16:02	12°♊15'59	
retrograde	-765 Oct 10 j 13:42	20°♊25'23	
opposition	-765 Dec 16 j 00:35	16°♊57'37	-0°37'31
min. Earth dist.	-765 Dec 15 j 15:28	16°♊59'30	8.06683 AU
direct	-764 Feb 21 j 08:32	13°♊27'56	
evening set	-764 Jun 06 j 09:00	21°♊41'59	
conjunction	-764 Jun 24 j 13:07	24°♊01'40	-0°13'09
minimum elong	-764 Jun 24 j 13:08	24°♊01'40	0°13'08
behind sun begin	-764 Jun 24 j 08:56	24°♊00'20	
behind sun end	-764 Jun 24 j 17:20	24°♊03'01	
max. Earth dist.	-764 Jun 25 j 00:58	24°♊05'29	10.11220 AU
morning rise	-764 Jul 12 j 14:35	26°♊20'29	
	-764 Aug 12 j 12:31	0°♋	
retrograde	-764 Oct 23 j 11:38	4°♋19'44	
asc. node	-764 Nov 19 j 06:16	3°♋40'14	
opposition	-764 Dec 28 j 23:12	0°♋53'33	0°04'22
min. Earth dist.	-764 Dec 28 j 14:53	0°♋55'15	8.16237 AU
	-763 Jan 09 j 00:13	30°℞♊	
direct	-763 Mar 06 j 20:57	27°♊24'13	
	-763 May 01 j 13:32	0°♋	
evening set	-763 Jun 21 j 03:23	5°♋32'38	
conjunction	-763 Jul 09 j 04:39	7°♋49'50	0°20'21
minimum elong	-763 Jul 09 j 04:38	7°♋49'49	0°20'22
max. Earth dist.	-763 Jul 09 j 15:06	7°♋53'09	10.21837 AU
morning rise	-763 Jul 27 j 02:22	10°♋05'52	
retrograde	-763 Nov 05 j 23:16	17°♋54'21	
opposition	-762 Jan 11 j 15:38	14°♋29'50	0°44'57
min. Earth dist.	-762 Jan 11 j 08:10	14°♋31'21	8.27721 AU
direct	-762 Mar 21 j 05:18	11°♋01'07	
evening set	-762 Jul 05 j 12:20	19°♋02'26	
conjunction	-762 Jul 23 j 09:29	21°♋16'36	0°51'55
minimum elong	-762 Jul 23 j 09:27	21°♋16'35	0°51'56
max. Earth dist.	-762 Jul 23 j 18:05	21°♋19'18	10.34013 AU
morning rise	-762 Aug 10 j 02:25	23°♋29'24	
	-762 Oct 14 j 18:34	0°♌	
retrograde	-762 Nov 19 j 01:31	1°♌07'11	
	-762 Dec 24 j 22:16	30°℞♋	
opposition	-761 Jan 25 j 01:11	27°♋44'18	1°21'56
min. Earth dist.	-761 Jan 24 j 18:40	27°♋45'36	8.40421 AU
direct	-761 Apr 04 j 06:19	24°♋16'25	
	-761 Jul 01 j 02:11	0°♌	
evening set	-761 Jul 19 j 10:32	2°♌09'40	
conjunction	-761 Aug 06 j 02:45	4°♌20'33	1°19'58
minimum elong	-761 Aug 06 j 02:42	4°♌20'32	1°19'59
max. Earth dist.	-761 Aug 06 j 09:22	4°♌22'36	10.47002 AU
morning rise	-761 Aug 23 j 14:14	6°♌29'56	
retrograde	-761 Dec 01 j 20:38	13°♌57'39	
opposition	-760 Feb 07 j 04:05	10°♌36'17	1°53'37
min. Earth dist.	-760 Feb 06 j 22:39	10°♌37'21	8.53562 AU
direct	-760 Apr 16 j 23:01	7°♌09'26	
evening set	-760 Jul 31 j 21:22	14°♌54'12	
	-760 Aug 01 j 16:40	15°♌	
conjunction	-760 Aug 18 j 08:17	17°♌01'47	1°43'22
minimum elong	-760 Aug 18 j 08:14	17°♌01'46	1°43'22
max. Earth dist.	-760 Aug 18 j 13:09	17°♌03'17	10.60030 AU
morning rise	-760 Sep 04 j 14:05	19°♌07'50	
retrograde	-760 Dec 13 j 07:52	26°♌26'35	
opposition	-759 Feb 19 j 00:40	23°♌06'37	2°18'53
min. Earth dist.	-759 Feb 18 j 21:19	23°♌07'16	8.66391 AU
direct	-759 Apr 30 j 07:36	19°♌40'54	
evening set	-759 Aug 13 j 21:12	27°♌17'19	
conjunction	-759 Aug 31 j 02:50	29°♌21'49	2°01'19
minimum elong	-759 Aug 31 j 02:47	29°♌21'48	2°01'20
max. Earth dist.	-759 Aug 31 j 05:17	29°♌22'33	10.72410 AU
	-759 Sep 05 j 08:49	0°♍	
morning rise	-759 Sep 17 j 03:23	1°♍24'50	
retrograde	-759 Dec 25 j 12:41	8°♍35'57	
opposition	-758 Mar 03 j 15:27	5°♍17'13	2°37'08
min. Earth dist.	-758 Mar 03 j 14:45	5°♍17'21	8.78304 AU
direct	-758 May 13 j 08:30	1°♍52'43	
evening set	-758 Aug 26 j 10:47	9°♍21'13	
conjunction	-758 Sep 12 j 11:30	11°♍22'59	2°13'29
minimum elong	-758 Sep 12 j 11:28	11°♍22'59	2°13'29
max. Earth dist.	-758 Sep 12 j 10:51	11°♍22'48	10.83642 AU
morning rise	-758 Sep 29 j 07:35	13°♍23'23	
retrograde	-757 Jan 06 j 11:11	20°♍28'18	
opposition	-757 Mar 16 j 01:25	17°♍10'31	2°48'09
min. Earth dist.	-757 Mar 16 j 03:03	17°♍10'13	8.88857 AU
direct	-757 May 26 j 02:25	13°♍47'14	
evening set	-757 Sep 07 j 15:09	21°♍08'25	
conjunction	-757 Sep 24 j 11:37	23°♍07'52	2°19'44
minimum elong	-757 Sep 24 j 11:36	23°♍07'52	2°19'43
max. Earth dist.	-757 Sep 24 j 08:12	23°♍06'51	10.93346 AU
morning rise	-757 Oct 11 j 04:03	25°♍06'08	
	-757 Nov 28 j 12:38	0°♎	
retrograde	-756 Jan 18 j 05:16	2°♎06'16	
	-756 Mar 11 j 03:59	30°℞♍	
opposition	-756 Mar 27 j 07:15	28°♍49'09	2°51'58
min. Earth dist.	-756 Mar 27 j 10:07	28°♍48'37	8.97698 AU
direct	-756 Jun 06 j 15:09	25°♍27'00	
	-756 Aug 24 j 23:27	0°♎	
evening set	-756 Sep 18 j 11:26	2°♎41'35	
conjunction	-756 Oct 05 j 04:39	4°♎39'14	2°20'10
minimum elong	-756 Oct 05 j 04:39	4°♎39'14	2°20'10
max. Earth dist.	-756 Oct 05 j 00:01	4°♎37'52	11.01202 AU
morning rise	-756 Oct 21 j 18:17	6°♎35'52	
retrograde	-755 Jan 28 j 23:02	13°♎32'40	
opposition	-755 Apr 08 j 09:56	10°♎15'54	2°48'54
min. Earth dist.	-755 Apr 08 j 13:53	10°♎15'10	9.04531 AU
direct	-755 Jun 18 j 21:14	6°♎54'48	
evening set	-755 Sep 30 j 01:03	14°♎03'40	
conjunction	-755 Oct 16 j 15:55	16°♎00'02	2°15'04
minimum elong	-755 Oct 16 j 15:56	16°♎00'03	2°15'04
max. Earth dist.	-755 Oct 16 j 10:15	15°♎58'23	11.06944 AU
morning rise	-755 Nov 02 j 03:44	17°♎55'36	
retrograde	-754 Feb 09 j 13:09	24°♎50'30	
opposition	-754 Apr 20 j 10:24	21°♎33'50	2°39'20
min. Earth dist.	-754 Apr 20 j 16:04	21°♎32'47	9.09130 AU

Attention, astronomical year style is used: The year -754 in astronomical counting style is the year 755 BCE in historical counting style.

direct	-754 Jun 30 j 21:06	18°♎13'35	
evening set	-754 Oct 11 j 09:53	25°♎17'55	
conjunction	-754 Oct 27 j 23:03	27°♎13'29	2°04'48
minimum elong	-754 Oct 27 j 23:05	27°♎13'30	2°04'47
max. Earth dist.	-754 Oct 27 j 15:24	27°♎11'15	11.10383 AU
morning rise	-754 Nov 13 j 10:07	29°♎08'30	
	-754 Nov 20 j 23:47	0°♏	
retrograde	-753 Feb 21 j 03:33	6°♏03'02	
opposition	-753 May 02 j 09:37	2°♏46'10	2°23'48
min. Earth dist.	-753 May 02 j 17:08	2°♏44'47	9.11353 AU
	-753 Jun 16 j 00:45	30°℞♎	
direct	-753 Jul 12 j 19:07	29°♎26'37	
	-753 Aug 08 j 05:22	0°♏	
evening set	-753 Oct 22 j 15:26	6°♏27'39	
conjunction	-753 Nov 08 j 03:45	8°♏22'56	1°49'49
minimum elong	-753 Nov 08 j 03:47	8°♏22'57	1°49'49
max. Earth dist.	-753 Nov 07 j 18:35	8°♏20'15	11.11426 AU
morning rise	-753 Nov 24 j 14:59	10°♏17'56	
	-752 Jan 10 j 11:30	15°♏	
retrograde	-752 Mar 03 j 18:30	17°♏13'39	
	-752 Apr 28 j 15:26	15°℞♏	
opposition	-752 May 13 j 08:47	13°♏56'19	2°02'53
min. Earth dist.	-752 May 13 j 16:48	13°♏54'51	9.11145 AU
direct	-752 Jul 23 j 13:47	10°♏37'17	
	-752 Oct 08 j 22:08	15°♏	
evening set	-752 Nov 01 j 19:18	17°♏36'22	
conjunction	-752 Nov 18 j 07:43	19°♏31'51	1°30'40
minimum elong	-752 Nov 18 j 07:45	19°♏31'52	1°30'39
max. Earth dist.	-752 Nov 17 j 22:33	19°♏29'10	11.10039 AU
morning rise	-752 Dec 04 j 19:42	21°♏27'18	
retrograde	-751 Mar 15 j 13:48	28°♏25'50	
opposition	-751 May 25 j 08:48	25°♏07'48	1°37'16
min. Earth dist.	-751 May 25 j 16:39	25°♏06'21	9.08506 AU
direct	-751 Aug 04 j 08:32	21°♏49'07	
evening set	-751 Nov 12 j 23:44	28°♏47'43	
	-751 Nov 23 j 07:51	0°♐	
conjunction	-751 Nov 29 j 12:48	0°♐43'52	1°07'59
minimum elong	-751 Nov 29 j 12:50	0°♐43'53	1°07'57
max. Earth dist.	-751 Nov 29 j 03:37	0°♐41'10	11.06255 AU
morning rise	-751 Dec 16 j 02:10	2°♐40'12	
retrograde	-750 Mar 27 j 13:27	9°♐43'04	
opposition	-750 Jun 06 j 10:47	6°♐24'10	1°07'43
min. Earth dist.	-750 Jun 06 j 18:53	6°♐22'40	9.03520 AU
direct	-750 Aug 16 j 00:57	3°♐05'37	
evening set	-750 Nov 24 j 06:26	10°♐05'17	
conjunction	-750 Dec 10 j 20:30	12°♐02'30	0°42'26
minimum elong	-750 Dec 10 j 20:31	12°♐02'30	0°42'25
max. Earth dist.	-750 Dec 10 j 10:23	11°♐59'30	11.00200 AU
morning rise	-750 Dec 27 j 11:57	14°♐00'11	
retrograde	-749 Apr 08 j 16:07	21°♐08'56	
opposition	-749 Jun 18 j 16:11	17°♐48'58	0°35'06
min. Earth dist.	-749 Jun 19 j 00:46	17°♐47'22	8.96361 AU
direct	-749 Aug 27 j 18:48	14°♐30'20	
evening set	-749 Dec 05 j 17:01	21°♐32'40	
conjunction	-749 Dec 22 j 08:35	23°♐31'19	0°14'51
minimum elong	-749 Dec 22 j 08:36	23°♐31'19	0°14'51
behind sun begin	-749 Dec 22 j 05:39	23°♐30'27	
behind sun end	-749 Dec 22 j 11:32	23°♐32'11	
max. Earth dist.	-749 Dec 21 j 22:29	23°♐28'18	10.92080 AU
morning rise	-748 Jan 08 j 02:32	25°♐30'41	
	-748 Feb 20 j 00:21	0°♑	

retrograde	-748 Apr 20 j 02:59	2°♑46'52	
	-748 Jun 22 j 08:59	30°℞♐	
opposition	-748 Jun 30 j 01:44	29°♐25'39	0°00'28
min. Earth dist.	-748 Jun 30 j 09:58	29°♐24'07	8.87280 AU
desc. node	-748 Jul 05 j 00:50	29°♐03'24	
direct	-748 Sep 07 j 17:48	26°♐06'42	
	-748 Nov 17 j 06:16	0°♑	
evening set	-748 Dec 16 j 09:31	3°♑13'15	
conjunction	-747 Jan 02 j 03:08	5°♑13'42	-0°13'53
minimum elong	-747 Jan 02 j 03:07	5°♑13'42	0°13'53
behind sun begin	-747 Jan 01 j 23:22	5°♑12'35	
behind sun end	-747 Jan 02 j 06:53	5°♑14'49	
max. Earth dist.	-747 Jan 01 j 18:28	5°♑11'06	10.82174 AU
morning rise	-747 Jan 18 j 23:43	7°♑15'06	
retrograde	-747 May 02 j 21:11	14°♑40'00	
opposition	-747 Jul 12 j 16:08	11°♑17'25	-0°35'00
min. Earth dist.	-747 Jul 12 j 22:55	11°♑16'08	8.76612 AU
direct	-747 Sep 19 j 18:53	7°♑57'58	
evening set	-747 Dec 28 j 09:36	15°♑10'17	
conjunction	-746 Jan 14 j 05:30	17°♑12'49	-0°42'32
minimum elong	-746 Jan 14 j 05:29	17°♑12'48	0°42'32
max. Earth dist.	-746 Jan 13 j 22:13	17°♑10'35	10.70858 AU
morning rise	-746 Jan 31 j 04:56	19°♑16'30	
retrograde	-746 May 15 j 23:50	26°♑51'14	
opposition	-746 Jul 25 j 12:35	23°♑27'11	-1°09'52
min. Earth dist.	-746 Jul 25 j 17:46	23°♑26'12	8.64780 AU
direct	-746 Oct 02 j 01:32	20°♑07'03	
evening set	-745 Jan 09 j 18:42	27°♑26'29	
conjunction	-745 Jan 26 j 17:03	29°♑31'21	-1°09'57
minimum elong	-745 Jan 26 j 17:00	29°♑31'21	1°09'57
max. Earth dist.	-745 Jan 26 j 10:47	29°♑29'25	10.58615 AU
	-745 Jan 30 j 13:38	0°♒	
morning rise	-745 Feb 12 j 19:39	1°♒37'34	
retrograde	-745 May 29 j 12:07	9°♒22'51	
opposition	-745 Aug 07 j 15:37	5°♒57'21	-1°42'29
min. Earth dist.	-745 Aug 07 j 19:32	5°♒56'36	8.52309 AU
direct	-745 Oct 14 j 13:58	2°♒36'19	
evening set	-744 Jan 22 j 14:16	10°♒04'04	
conjunction	-744 Feb 08 j 15:25	12°♒11'27	-1°34'42
minimum elong	-744 Feb 08 j 15:22	12°♒11'26	1°34'42
max. Earth dist.	-744 Feb 08 j 10:26	12°♒09'53	10.46005 AU
morning rise	-744 Feb 25 j 21:26	14°♒20'21	
	-744 Mar 02 j 07:39	15°♒	
retrograde	-744 Jun 11 j 07:38	22°♒16'19	
opposition	-744 Aug 20 j 01:14	18°♒49'27	-2°11'01
min. Earth dist.	-744 Aug 20 j 03:59	18°♒48'54	8.39790 AU
direct	-744 Oct 26 j 10:29	15°♒27'21	
evening set	-743 Feb 03 j 20:56	23°♒04'15	
conjunction	-743 Feb 21 j 01:24	25°♒14'17	-1°55'16
minimum elong	-743 Feb 21 j 01:21	25°♒14'16	1°55'17
max. Earth dist.	-743 Feb 20 j 22:47	25°♒13'27	10.33641 AU
morning rise	-743 Mar 10 j 10:55	27°♒25'54	
	-743 Mar 31 j 22:26	0°♓	
retrograde	-743 Jun 25 j 10:46	5°♓32'07	
opposition	-743 Sep 02 j 17:28	2°♓03'58	-2°33'33
min. Earth dist.	-743 Sep 02 j 18:29	2°♓03'46	8.27840 AU
	-743 Sep 30 j 14:55	30°℞♒	
direct	-743 Nov 08 j 16:07	28°♒40'43	
	-743 Dec 16 j 19:57	0°♓	
evening set	-742 Feb 17 j 14:58	6°♓27'03	
conjunction	-742 Mar 06 j 23:09	8°♓39'47	-2°10'10

Attention, astronomical year style is used: The year -742 in astronomical counting style is the year 743 BCE in historical counting style.

minimum elong	-742 Mar 06 j 23:08	8°♓39'46	2°10'11	
max. Earth dist.	-742 Mar 06 j 23:32	8°♓39'54	10.22153 AU	
morning rise	-742 Mar 24 j 12:13	10°♓54'04		
retrograde	-742 Jul 09 j 21:08	19°♓09'19		
opposition	-742 Sep 16 j 15:46	15°♓40'05	-2°48'13	
min. Earth dist.	-742 Sep 16 j 14:28	15°♓40'20	8.17080 AU	
direct	-742 Nov 22 j 05:25	12°♓15'36		
evening set	-741 Mar 03 j 20:04	20°♓11'04		
conjunction	-741 Mar 21 j 08:22	22°♓26'26	-2°18'04	
minimum elong	-741 Mar 21 j 08:22	22°♓26'25	2°18'05	
max. Earth dist.	-741 Mar 21 j 11:25	22°♓27'25	10.12161 AU	
morning rise	-741 Apr 08 j 01:08	24°♓43'15		
	-741 May 24 j 13:28	0°♈		
retrograde	-741 Jul 24 j 14:08	3°♈05'29		
	-741 Sep 25 j 18:32	30℞♓		
opposition	-741 Sep 30 j 19:08	29°♓35'26	-2°53'27	
min. Earth dist.	-741 Sep 30 j 15:51	29°♓36'06	8.08069 AU	
direct	-741 Dec 06 j 01:20	26°♓09'41		
	-740 Feb 10 j 17:34	0°♈		
evening set	-740 Mar 17 j 11:09	4°♈13'29		
conjunction	-740 Apr 04 j 03:47	6°♈31'17	-2°17'58	
minimum elong	-740 Apr 04 j 03:48	6°♈31'17	2°17'59	
max. Earth dist.	-740 Apr 04 j 08:48	6°♈32'55	10.04183 AU	
morning rise	-740 Apr 22 j 00:19	8°♈50'22		
retrograde	-740 Aug 07 j 10:32	17°♈16'58		
opposition	-740 Oct 14 j 02:26	13°♈46'30	-2°48'18	
min. Earth dist.	-740 Oct 13 j 21:41	13°♈47'29	8.01277 AU	
direct	-740 Dec 19 j 05:10	10°♈19'35		
evening set	-739 Apr 01 j 10:30	18°♈30'23		
conjunction	-739 Apr 19 j 07:21	20°♈50'13	-2°09'27	
minimum elong	-739 Apr 19 j 07:23	20°♈50'14	2°09'27	
max. Earth dist.	-739 Apr 19 j 13:48	20°♈52'21	9.98694 AU	
morning rise	-739 May 07 j 07:19	23°♈11'06		
	-739 Jul 10 j 03:09	0°♉		
retrograde	-739 Aug 22 j 07:19	1°♉39'02		
	-739 Oct 04 j 20:51	30℞♈		
opposition	-739 Oct 28 j 12:06	28°♈08'34	-2°32'35	
min. Earth dist.	-739 Oct 28 j 06:22	28°♈09'46	7.97198 AU	
direct	-738 Jan 02 j 15:26	24°♈40'38		
	-738 Mar 23 j 19:14	0°♉		
evening set	-738 Apr 16 j 15:39	2°♉56'25		
conjunction	-738 May 04 j 16:18	5°♉17'43	-1°52'46	
minimum elong	-738 May 04 j 16:21	5°♉17'45	1°52'46	
max. Earth dist.	-738 May 05 j 00:05	5°♉20'17	9.96178 AU	
morning rise	-738 May 22 j 19:03	7°♉39'42		
	-738 Aug 02 j 09:37	15°♉		
retrograde	-738 Sep 06 j 02:07	16°♉05'37		
	-738 Oct 10 j 22:10	15℞♉		
opposition	-738 Nov 11 j 22:19	12°♉35'34	-2°07'06	
min. Earth dist.	-738 Nov 11 j 15:50	12°♉36'55	7.96243 AU	
direct	-737 Jan 17 j 06:18	9°♉06'46		
	-737 Apr 12 j 12:56	15°♉		
evening set	-737 May 01 j 23:38	17°♉25'02		
conjunction	-737 May 20 j 03:10	19°♉47'00	-1°28'58	
minimum elong	-737 May 20 j 03:14	19°♉47'02	1°28'57	
max. Earth dist.	-737 May 20 j 12:09	19°♉49'57	9.96904 AU	
morning rise	-737 Jun 07 j 07:34	22°♉09'12		
	-737 Aug 28 j 13:05	0°♊		
retrograde	-737 Sep 20 j 16:20	0°♊29'56		
	-737 Oct 13 j 20:39	30℞♉		
opposition	-737 Nov 26 j 07:04	27°♉00'38	-1°33'39	
min. Earth dist.	-737 Nov 25 j 23:52	27°♉02'08	7.98541 AU	

direct	-736 Jan 31 j 23:13	23°♉31'15		
	-736 May 01 j 16:57	0°♊		
evening set	-736 May 16 j 07:20	1°♊49'23		
conjunction	-736 Jun 03 j 12:18	4°♊11'04	-0°59'43	
minimum elong	-736 Jun 03 j 12:21	4°♊11'05	0°59'43	
max. Earth dist.	-736 Jun 03 j 22:04	4°♊14'15	10.00849 AU	
morning rise	-736 Jun 21 j 16:43	6°♊32'29		
retrograde	-736 Oct 04 j 00:34	14°♊45'26		
opposition	-736 Dec 09 j 12:24	11°♊17'13	-0°54'42	
min. Earth dist.	-736 Dec 09 j 04:34	11°♊18'50	8.03953 AU	
direct	-735 Feb 14 j 16:14	7°♊47'33		
evening set	-735 May 31 j 11:19	16°♊03'02		
conjunction	-735 Jun 18 j 16:03	18°♊23'27	-0°27'11	
minimum elong	-735 Jun 18 j 16:04	18°♊23'28	0°27'10	
max. Earth dist.	-735 Jun 19 j 02:16	18°♊26'45	10.07744 AU	
morning rise	-735 Jul 06 j 18:48	20°♊43'11		
retrograde	-735 Oct 18 j 00:51	28°♊46'35		
opposition	-735 Dec 23 j 12:59	25°♊19'39	-0°13'08	
min. Earth dist.	-735 Dec 23 j 04:35	25°♊21'22	8.12116 AU	
direct	-734 Mar 01 j 06:29	21°♊50'02		
asc. node	-734 Apr 21 j 12:02	24°♊04'33		
evening set	-734 Jun 15 j 08:39	0°♋00'42		
	-734 Jun 15 j 06:24	0°♋		
conjunction	-734 Jul 03 j 11:27	2°♋19'00	0°06'30	
minimum elong	-734 Jul 03 j 11:26	2°♋19'00	0°06'31	
behind sun begin	-734 Jul 03 j 04:34	2°♋16'49		
behind sun end	-734 Jul 03 j 18:18	2°♋21'10		
max. Earth dist.	-734 Jul 03 j 21:49	2°♋22'18	10.17114 AU	
morning rise	-734 Jul 21 j 10:58	4°♋36'15		
retrograde	-734 Oct 31 j 16:26	12°♋29'09		
opposition	-733 Jan 06 j 07:39	9°♋03'41	0°28'14	
min. Earth dist.	-733 Jan 05 j 23:36	9°♋05'19	8.22477 AU	
direct	-733 Mar 15 j 15:52	5°♋34'24		
evening set	-733 Jun 29 j 21:28	13°♋38'38		
conjunction	-733 Jul 17 j 20:44	15°♋54'09	0°38'59	
minimum elong	-733 Jul 17 j 20:42	15°♋54'09	0°39'00	
max. Earth dist.	-733 Jul 18 j 06:17	15°♋57'10	10.28337 AU	
morning rise	-733 Aug 04 j 15:44	18°♋08'22		
retrograde	-733 Nov 13 j 23:38	25°♋50'33		
opposition	-732 Jan 19 j 19:45	22°♋26'37	1°06'55	
min. Earth dist.	-732 Jan 19 j 12:59	22°♋27'58	8.34386 AU	
direct	-732 Mar 28 j 17:59	18°♋57'57		
evening set	-732 Jul 13 j 00:00	26°♋54'36		
conjunction	-732 Jul 30 j 18:34	29°♋06'57	1°08'38	
minimum elong	-732 Jul 30 j 18:31	29°♋06'56	1°08'39	
max. Earth dist.	-732 Jul 31 j 02:18	29°♋09'22	10.40740 AU	
	-732 Aug 06 j 20:30	0°♌		
morning rise	-732 Aug 17 j 08:19	1°♌17'49		
retrograde	-732 Nov 25 j 21:58	8°♌49'42		
opposition	-731 Feb 01 j 01:16	5°♌27'17	1°40'58	
min. Earth dist.	-731 Jan 31 j 20:14	5°♌28'17	8.47162 AU	
direct	-731 Apr 11 j 13:38	1°♌59'30		
evening set	-731 Jul 26 j 15:13	9°♌47'53		
conjunction	-731 Aug 13 j 04:26	11°♌56'56	1°34'05	
minimum elong	-731 Aug 13 j 04:23	11°♌56'55	1°34'06	
max. Earth dist.	-731 Aug 13 j 09:42	11°♌58'33	10.53650 AU	
morning rise	-731 Aug 30 j 12:45	14°♌04'27		
	-731 Sep 07 j 07:03	15°♌		
retrograde	-731 Dec 08 j 10:16	21°♌26'54		
opposition	-730 Feb 14 j 00:08	18°♌05'54	2°09'01	
min. Earth dist.	-730 Feb 13 j 20:35	18°♌06'36	8.60130 AU	

Attention, astronomical year style is used: The year -730 in astronomical counting style is the year 731 BCE in historical counting style.

	-730 Apr 04 j 16:31	15℞♌		
direct	-730 Apr 25 j 02:42	14°♌39'11		
	-730 May 15 j 11:37	15°♌		
evening set	-730 Aug 08 j 19:22	22°♌19'09		
conjunction	-730 Aug 26 j 03:12	24°♌24'58	1°54'23	
minimum elong	-730 Aug 26 j 03:09	24°♌24'57	1°54'24	
max. Earth dist.	-730 Aug 26 j 05:59	24°♌25'49	10.66423 AU	
morning rise	-730 Sep 12 j 06:11	26°♌29'18		
	-730 Oct 13 j 21:19	0°♍		
retrograde	-730 Dec 20 j 16:25	3°♍43'26		
opposition	-729 Feb 26 j 16:40	0°♍23'44	2°30'17	
min. Earth dist.	-729 Feb 26 j 14:13	0°♍24'12	8.72658 AU	
	-729 Mar 03 j 20:05	30℞♌		
direct	-729 May 08 j 07:42	26°♌58'15		
	-729 Jul 10 j 03:33	0°♍		
evening set	-729 Aug 21 j 12:46	4°♍29'56		
conjunction	-729 Sep 07 j 15:35	6°♍32'50	2°09'02	
minimum elong	-729 Sep 07 j 15:33	6°♍32'49	2°09'01	
max. Earth dist.	-729 Sep 07 j 16:53	6°♍33'13	10.78475 AU	
morning rise	-729 Sep 24 j 13:37	8°♍34'18		
retrograde	-728 Jan 01 j 18:11	15°♍41'27		
opposition	-728 Mar 10 j 04:01	12°♍22'52	2°44'21	
min. Earth dist.	-728 Mar 10 j 02:54	12°♍23'05	8.84193 AU	
direct	-728 May 20 j 02:59	8°♍58'44		
evening set	-728 Sep 01 j 20:12	16°♍22'35		
conjunction	-728 Sep 18 j 18:35	18°♍22'57	2°17'47	
minimum elong	-728 Sep 18 j 18:33	18°♍22'56	2°17'46	
max. Earth dist.	-728 Sep 18 j 18:30	18°♍22'55	10.89298 AU	
morning rise	-728 Oct 05 j 12:23	20°♍22'00		
retrograde	-727 Jan 12 j 13:47	27°♍23'36		
opposition	-727 Mar 22 j 10:55	24°♍05'56	2°51'11	
min. Earth dist.	-727 Mar 22 j 11:54	24°♍05'45	8.94272 AU	
direct	-727 Jun 01 j 16:25	20°♍43'06		
evening set	-727 Sep 13 j 19:11	27°♍59'53		
conjunction	-727 Sep 30 j 13:46	29°♍58'10	2°20'40	
minimum elong	-727 Sep 30 j 13:45	29°♍58'10	2°20'39	
max. Earth dist.	-727 Sep 30 j 11:17	29°♍57'26	10.98472 AU	
	-727 Sep 30 j 19:58	0°♎		
morning rise	-727 Oct 17 j 04:27	1°♎55'21		
retrograde	-726 Jan 24 j 06:40	8°♎52'48		
opposition	-726 Apr 03 j 14:01	5°♎35'50	2°51'00	
min. Earth dist.	-726 Apr 03 j 17:16	5°♎35'14	9.02513 AU	
direct	-726 Jun 13 j 23:46	2°♎14'14		
evening set	-726 Sep 25 j 11:01	9°♎24'52		
conjunction	-726 Oct 12 j 02:40	11°♎21'36	2°17'54	
minimum elong	-726 Oct 12 j 02:41	11°♎21'36	2°17'54	
max. Earth dist.	-726 Oct 11 j 21:41	11°♎20'08	11.05665 AU	
morning rise	-726 Oct 28 j 15:16	13°♎17'26		
retrograde	-725 Feb 04 j 19:55	20°♎12'16		
opposition	-725 Apr 15 j 14:37	16°♎55'41	2°44'09	
min. Earth dist.	-725 Apr 15 j 19:08	16°♎54'51	9.08609 AU	
direct	-725 Jun 26 j 01:55	13°♎35'14		
evening set	-725 Oct 06 j 21:08	20°♎40'46		
conjunction	-725 Oct 23 j 10:51	22°♎36'26	2°09'48	
minimum elong	-725 Oct 23 j 10:53	22°♎36'26	2°09'49	
max. Earth dist.	-725 Oct 23 j 04:51	22°♎34'40	11.10616 AU	
morning rise	-725 Nov 08 j 22:09	24°♎31'27		
	-724 Jan 05 j 11:52	0°♏		
retrograde	-724 Feb 16 j 11:02	1°♏25'14		
	-724 Mar 30 j 17:38	30℞♎		
opposition	-724 Apr 26 j 13:41	28°♎08'45	2°31'08	
min. Earth dist.	-724 Apr 26 j 18:49	28°♎07'49	9.12350 AU	
direct	-724 Jul 07 j 01:26	24°♎49'16		
	-724 Sep 30 j 11:28	0°♏		
evening set	-724 Oct 17 j 03:24	1°♏50'52		
conjunction	-724 Nov 02 j 16:05	3°♏46'01	1°56'49	
minimum elong	-724 Nov 02 j 16:07	3°♏46'02	1°56'50	
max. Earth dist.	-724 Nov 02 j 09:28	3°♏44'05	11.13156 AU	
morning rise	-724 Nov 19 j 02:57	5°♏40'44		
retrograde	-723 Feb 27 j 02:33	12°♏34'56		
opposition	-723 May 08 j 12:11	9°♏18'18	2°12'29	
min. Earth dist.	-723 May 08 j 18:40	9°♏17'07	9.13617 AU	
direct	-723 Jul 18 j 19:18	5°♏59'35		
evening set	-723 Oct 28 j 07:32	12°♏58'33		
conjunction	-723 Nov 13 j 19:46	14°♏53'40	1°39'27	
minimum elong	-723 Nov 13 j 19:49	14°♏53'41	1°39'26	
max. Earth dist.	-723 Nov 13 j 11:21	14°♏51'12	11.13197 AU	
	-723 Nov 14 j 17:25	15°♏		
morning rise	-723 Nov 30 j 07:13	16°♏48'37		
retrograde	-722 Mar 10 j 18:33	23°♏44'48		
opposition	-722 May 20 j 11:16	20°♏27'43	1°48'53	
min. Earth dist.	-722 May 20 j 19:19	20°♏26'14	9.12351 AU	
direct	-722 Jul 30 j 12:38	17°♏09'29		
evening set	-722 Nov 08 j 11:14	24°♏07'17		
conjunction	-722 Nov 24 j 23:40	26°♏02'49	1°18'16	
minimum elong	-722 Nov 24 j 23:43	26°♏02'49	1°18'14	
max. Earth dist.	-722 Nov 24 j 13:47	25°♏59'54	11.10704 AU	
morning rise	-722 Dec 11 j 12:22	27°♏58'26		
	-722 Dec 29 j 18:40	0°♐		
retrograde	-721 Mar 22 j 14:30	4°♐58'12		
opposition	-721 Jun 01 j 11:54	1°♐40'22	1°21'02	
min. Earth dist.	-721 Jun 01 j 20:44	1°♐38'45	9.08553 AU	
	-721 Jun 25 j 09:35	30℞♏		
direct	-721 Aug 11 j 06:20	28°♏22'23		
	-721 Sep 25 j 12:30	0°♐		
evening set	-721 Nov 19 j 16:15	5°♐20'30		
conjunction	-721 Dec 06 j 05:41	7°♐16'54	0°53'56	
minimum elong	-721 Dec 06 j 05:43	7°♐16'55	0°53'55	
max. Earth dist.	-721 Dec 05 j 19:48	7°♐13'59	11.05705 AU	
morning rise	-721 Dec 22 j 20:02	9°♐13'39		
retrograde	-720 Apr 02 j 15:31	16°♐18'38		
opposition	-720 Jun 12 j 15:09	12°♐59'46	0°49'45	
min. Earth dist.	-720 Jun 12 j 23:43	12°♐58'12	9.02287 AU	
direct	-720 Aug 22 j 00:15	9°♐41'48		
evening set	-720 Nov 30 j 00:27	16°♐41'52		
conjunction	-720 Dec 16 j 15:20	18°♐39'34	0°27'13	
minimum elong	-720 Dec 16 j 15:21	18°♐39'35	0°27'12	
max. Earth dist.	-720 Dec 16 j 05:20	18°♐36'36	10.98297 AU	
morning rise	-719 Jan 02 j 07:52	20°♐37'52		
retrograde	-719 Apr 15 j 00:17	27°♐49'40		
opposition	-719 Jun 24 j 22:13	24°♐29'36	0°15'58	
min. Earth dist.	-719 Jun 25 j 06:44	24°♐28'01	8.93731 AU	
direct	-719 Sep 02 j 19:51	21°♐11'21		
evening set	-719 Dec 11 j 13:56	28°♐15'04		
desc. node	-719 Dec 14 j 07:50	28°♐34'28		
	-719 Dec 26 j 06:22	0°♑		
conjunction	-719 Dec 28 j 06:28	0°♑14'26	-0°01'06	
minimum elong	-719 Dec 28 j 06:28	0°♑14'26	0°01'06	
behind sun begin	-719 Dec 27 j 23:28	0°♑12'22		
behind sun end	-719 Dec 28 j 13:28	0°♑16'31		
max. Earth dist.	-719 Dec 27 j 19:45	0°♑11'15	10.88753 AU	
morning rise	-718 Jan 14 j 01:38	2°♑14'40		

Attention, astronomical year style is used: The year -718 in astronomical counting style is the year 719 BCE in historical counting style.

retrograde	-718 Apr 27 j 13:50	9°♑34'43	
opposition	-718 Jul 07 j 10:02	6°♑13'16	-0°19'13
min. Earth dist.	-718 Jul 07 j 18:41	6°♑11'38	8.83252 AU
direct	-718 Sep 14 j 17:55	2°♑54'27	
evening set	-718 Dec 23 j 10:10	10°♑03'26	
conjunction	-717 Jan 09 j 04:45	12°♑04'48	-0°29'51
minimum elong	-717 Jan 09 j 04:43	12°♑04'47	0°29'51
max. Earth dist.	-717 Jan 08 j 18:14	12°♑01'36	10.77501 AU
morning rise	-717 Jan 26 j 02:51	14°♑07'15	
retrograde	-717 May 10 j 11:18	21°♑36'51	
opposition	-717 Jul 20 j 03:38	18°♑13'48	-0°54'27
min. Earth dist.	-717 Jul 20 j 11:45	18°♑12'15	8.71325 AU
direct	-717 Sep 26 j 23:05	14°♑54'11	
evening set	-716 Jan 04 j 14:37	22°♑09'50	
conjunction	-716 Jan 21 j 11:44	24°♑13'29	-0°57'56
minimum elong	-716 Jan 21 j 11:42	24°♑13'29	0°57'56
max. Earth dist.	-716 Jan 21 j 03:06	24°♑10'50	10.65029 AU
morning rise	-716 Feb 07 j 12:53	26°♑18'26	
	-716 Mar 11 j 13:09	0°♒	
retrograde	-716 May 22 j 18:45	3°♒58'30	
opposition	-716 Aug 01 j 03:21	0°♒33'45	-1°28'15
min. Earth dist.	-716 Aug 01 j 09:45	0°♒32'32	8.58470 AU
	-716 Aug 08 j 11:30	30°℞♑	
direct	-716 Oct 08 j 09:29	27°♑13'08	
	-716 Dec 04 j 21:55	0°♒	
evening set	-715 Jan 16 j 05:03	4°♒36'45	
conjunction	-715 Feb 02 j 04:59	6°♒42'56	-1°24'01
minimum elong	-715 Feb 02 j 04:56	6°♒42'55	1°24'02
max. Earth dist.	-715 Feb 01 j 22:33	6°♒40'55	10.51886 AU
morning rise	-715 Feb 19 j 09:17	8°♒50'32	
	-715 Apr 20 j 21:46	15°♒	
retrograde	-715 Jun 05 j 10:30	16°♒41'30	
	-715 Jul 21 j 21:00	15°℞♒	
opposition	-715 Aug 14 j 09:32	13°♒15'06	-1°58'50
min. Earth dist.	-715 Aug 14 j 13:47	13°♒14'17	8.45267 AU
direct	-715 Oct 21 j 01:57	9°♒53'18	
	-714 Jan 08 j 19:00	15°♒	
evening set	-714 Jan 29 j 06:20	17°♒25'57	
conjunction	-714 Feb 15 j 09:18	19°♒34'48	-1°46'39
minimum elong	-714 Feb 15 j 09:16	19°♒34'47	1°46'39
max. Earth dist.	-714 Feb 15 j 04:50	19°♒33'23	10.38696 AU
morning rise	-714 Mar 04 j 17:01	21°♒45'10	
retrograde	-714 Jun 19 j 10:43	29°♒46'57	
opposition	-714 Aug 27 j 22:41	26°♒19'01	-2°24'20
min. Earth dist.	-714 Aug 28 j 00:49	26°♒18'36	8.32356 AU
direct	-714 Nov 03 j 02:40	22°♒55'56	
	-713 Feb 06 j 15:59	0°♓	
evening set	-713 Feb 11 j 18:55	0°♓38'10	
conjunction	-713 Mar 01 j 01:19	2°♓49'47	-2°04'17
minimum elong	-713 Mar 01 j 01:16	2°♓49'46	2°04'18
max. Earth dist.	-713 Feb 28 j 22:38	2°♓48'55	10.26130 AU
morning rise	-713 Mar 18 j 12:44	5°♓02'59	
retrograde	-713 Jul 03 j 19:00	13°♓14'45	
opposition	-713 Sep 10 j 18:25	9°♓45'29	-2°42'47
min. Earth dist.	-713 Sep 10 j 18:57	9°♓45'22	8.20409 AU
direct	-713 Nov 16 j 11:15	6°♓21'03	
evening set	-712 Feb 25 j 19:06	14°♓12'57	
conjunction	-712 Mar 14 j 05:25	16°♓27'18	-2°15'30
minimum elong	-712 Mar 14 j 05:23	16°♓27'18	2°15'30
max. Earth dist.	-712 Mar 14 j 05:05	16°♓27'12	10.14868 AU
morning rise	-712 Mar 31 j 20:41	18°♓43'14	
retrograde	-712 Jul 17 j 09:44	27°♓03'17	
opposition	-712 Sep 23 j 19:46	23°♓33'00	-2°52'29
min. Earth dist.	-712 Sep 23 j 18:40	23°♓33'14	8.10090 AU
direct	-712 Nov 29 j 04:14	20°♓07'12	
evening set	-711 Mar 11 j 05:59	28°♓08'13	
	-711 Mar 25 j 15:27	0°♈	
conjunction	-711 Mar 28 j 20:36	0°♈25'11	-2°19'06
minimum elong	-711 Mar 28 j 20:36	0°♈25'11	2°19'06
max. Earth dist.	-711 Mar 28 j 23:05	0°♈25'59	10.05566 AU
morning rise	-711 Apr 15 j 15:41	2°♈43'35	
retrograde	-711 Aug 01 j 03:57	11°♈09'28	
opposition	-711 Oct 08 j 01:54	7°♈38'33	-2°52'05
min. Earth dist.	-711 Oct 07 j 22:50	7°♈39'11	8.02016 AU
direct	-711 Dec 13 j 06:42	4°♈11'31	
evening set	-710 Mar 26 j 01:57	12°♈20'18	
conjunction	-710 Apr 12 j 21:00	14°♈39'32	-2°14'22
minimum elong	-710 Apr 12 j 21:02	14°♈39'33	2°14'22
max. Earth dist.	-710 Apr 13 j 02:38	14°♈41'24	9.98811 AU
morning rise	-710 Apr 30 j 19:40	16°♈59'58	
retrograde	-710 Aug 15 j 23:57	25°♈28'41	
opposition	-710 Oct 22 j 11:11	21°♈57'32	-2°41'03
min. Earth dist.	-710 Oct 22 j 05:51	21°♈58'38	7.96712 AU
direct	-710 Dec 27 j 15:09	18°♈29'25	
evening set	-709 Apr 10 j 05:06	26°♈44'03	
conjunction	-709 Apr 28 j 04:20	29°♈05'03	-2°01'15
minimum elong	-709 Apr 28 j 04:24	29°♈05'04	2°01'15
max. Earth dist.	-709 Apr 28 j 12:52	29°♈07'52	9.95063 AU
	-709 May 05 j 03:18	0°♉	
morning rise	-709 May 16 j 06:04	1°♉26'53	
retrograde	-709 Aug 30 j 20:06	9°♉54'59	
opposition	-709 Nov 05 j 21:37	6°♉24'04	-2°19'44
min. Earth dist.	-709 Nov 05 j 14:18	6°♉25'35	7.94544 AU
direct	-708 Jan 11 j 03:52	2°♉55'05	
evening set	-708 Apr 24 j 12:35	11°♉13'13	
conjunction	-708 May 12 j 15:14	13°♉35'15	-1°40'26
minimum elong	-708 May 12 j 15:17	13°♉35'16	1°40'26
max. Earth dist.	-708 May 13 j 01:46	13°♉38'43	9.94587 AU
	-708 May 23 j 09:19	15°♉	
morning rise	-708 May 30 j 19:03	15°♉57'40	
retrograde	-708 Sep 13 j 13:51	24°♉21'49	
opposition	-708 Nov 19 j 07:34	20°♉51'35	-1°49'31
min. Earth dist.	-708 Nov 18 j 23:04	20°♉53'22	7.95680 AU
direct	-707 Jan 24 j 18:59	17°♉22'02	
evening set	-707 May 09 j 21:03	25°♉41'05	
conjunction	-707 May 28 j 01:44	28°♉03'12	-1°13'21
minimum elong	-707 May 28 j 01:47	28°♉03'13	1°13'20
max. Earth dist.	-707 May 28 j 13:28	28°♉07'03	9.97426 AU
	-707 Jun 11 j 23:45	0°♊	
morning rise	-707 Jun 15 j 06:16	0°♊25'16	
retrograde	-707 Sep 28 j 02:53	8°♊42'38	
opposition	-707 Dec 03 j 15:01	5°♊13'30	-1°12'36
min. Earth dist.	-707 Dec 03 j 06:03	5°♊15'22	8.00065 AU
direct	-706 Feb 08 j 12:00	1°♊43'40	
evening set	-706 May 25 j 03:24	10°♊01'06	
conjunction	-706 Jun 12 j 08:32	12°♊22'21	-0°41'57
minimum elong	-706 Jun 12 j 08:34	12°♊22'21	0°41'57
max. Earth dist.	-706 Jun 12 j 20:31	12°♊26'14	10.03404 AU
morning rise	-706 Jun 30 j 12:13	14°♊43'06	
retrograde	-706 Oct 12 j 07:34	22°♊51'29	
opposition	-706 Dec 17 j 18:16	19°♊23'47	-0°31'46
min. Earth dist.	-706 Dec 17 j 09:34	19°♊25'34	8.07424 AU

Attention, astronomical year style is used: The year -705 in astronomical counting style is the year 706 BCE in historical counting style.

direct	-705 Feb 23 j 04:13	15°♊54'01	
evening set	-705 Jun 09 j 04:39	24°♊07'33	
conjunction	-705 Jun 27 j 08:29	26°♊26'59	-0°08'31
minimum elong	-705 Jun 27 j 08:29	26°♊26'59	0°08'30
behind sun begin	-705 Jun 27 j 02:06	26°♊24'57	
behind sun end	-705 Jun 27 j 14:52	26°♊29'01	
max. Earth dist.	-705 Jun 27 j 19:42	26°♊30'35	10.12116 AU
morning rise	-705 Jul 15 j 09:43	28°♊45'34	
	-705 Jul 25 j 09:35	0°♋	
asc. node	-705 Sep 30 j 19:39	6°♋08'01	
retrograde	-705 Oct 26 j 03:04	6°♋43'40	
opposition	-705 Dec 31 j 16:10	3°♋17'35	0°10'06
min. Earth dist.	-705 Dec 31 j 07:57	3°♋19'16	8.17270 AU
	-704 Feb 22 j 21:36	30℞♊	
direct	-704 Mar 08 j 16:50	29°♊48'12	
	-704 Mar 23 j 11:29	0°♋	
evening set	-704 Jun 22 j 22:09	7°♋55'55	
conjunction	-704 Jul 10 j 23:00	10°♋12'48	0°24'51
minimum elong	-704 Jul 10 j 22:59	10°♋12'48	0°24'52
max. Earth dist.	-704 Jul 11 j 09:02	10°♋15'59	10.22992 AU
morning rise	-704 Jul 28 j 20:19	12°♋28'30	
retrograde	-704 Nov 07 j 13:49	20°♋15'50	
opposition	-703 Jan 13 j 07:47	16°♋51'25	0°50'17
min. Earth dist.	-703 Jan 12 j 23:54	16°♋53'01	8.28981 AU
direct	-703 Mar 22 j 23:32	13°♋22'45	
evening set	-703 Jul 07 j 05:56	21°♋23'11	
conjunction	-703 Jul 25 j 02:37	23°♋37'00	0°56'00
minimum elong	-703 Jul 25 j 02:35	23°♋37'00	0°56'01
max. Earth dist.	-703 Jul 25 j 11:31	23°♋39'48	10.35366 AU
morning rise	-703 Aug 11 j 18:56	25°♋49'25	
	-703 Sep 17 j 19:34	0°♌	
retrograde	-703 Nov 20 j 16:42	3°♌26'05	
opposition	-702 Jan 26 j 16:39	0°♌03'20	1°26'37
min. Earth dist.	-702 Jan 26 j 09:27	0°♌04'46	8.41857 AU
	-702 Jan 27 j 09:23	30℞♋	
direct	-702 Apr 05 j 22:49	26°♋35'33	
	-702 Jun 10 j 17:26	0°♌	
evening set	-702 Jul 21 j 02:48	4°♌27'49	
conjunction	-702 Aug 07 j 18:33	6°♌38'20	1°23'28
minimum elong	-702 Aug 07 j 18:29	6°♌38'19	1°23'29
max. Earth dist.	-702 Aug 08 j 02:04	6°♌40'40	10.48511 AU
morning rise	-702 Aug 25 j 05:19	8°♌47'20	
	-702 Oct 27 j 01:30	15°♌	
retrograde	-702 Dec 03 j 10:25	16°♌13'58	
	-701 Jan 10 j 12:14	15℞♌	
opposition	-701 Feb 08 j 18:48	12°♌52'46	1°57'27
min. Earth dist.	-701 Feb 08 j 13:09	12°♌53'52	8.55143 AU
direct	-701 Apr 19 j 14:56	9°♌26'03	
	-701 Jul 15 j 20:51	15°♌	
evening set	-701 Aug 03 j 12:29	17°♌09'45	
conjunction	-701 Aug 20 j 22:49	19°♌16'57	1°46'07
minimum elong	-701 Aug 20 j 22:46	19°♌16'56	1°46'08
max. Earth dist.	-701 Aug 21 j 04:16	19°♌18'37	10.61674 AU
morning rise	-701 Sep 07 j 03:57	21°♌22'36	
retrograde	-701 Dec 15 j 20:46	28°♌40'16	
opposition	-700 Feb 21 j 14:34	25°♌20'28	2°21'45
min. Earth dist.	-700 Feb 21 j 11:34	25°♌21'03	8.68100 AU
direct	-700 May 01 j 22:41	21°♌54'55	
evening set	-700 Aug 15 j 11:03	29°♌30'10	
	-700 Aug 19 j 15:16	0°♍	
conjunction	-700 Sep 01 j 16:01	1°♍34'16	2°03'16
minimum elong	-700 Sep 01 j 15:58	1°♍34'15	2°03'17
max. Earth dist.	-700 Sep 01 j 18:08	1°♍34'55	10.74153 AU
morning rise	-700 Sep 18 j 16:04	3°♍36'54	
retrograde	-700 Dec 27 j 00:05	10°♍46'58	
opposition	-699 Mar 05 j 04:36	7°♍28'23	2°38'58
min. Earth dist.	-699 Mar 05 j 04:05	7°♍28'28	8.80068 AU
direct	-699 May 14 j 22:13	4°♍04'04	
evening set	-699 Aug 27 j 23:09	11°♍31'21	
conjunction	-699 Sep 13 j 23:17	13°♍32'45	2°14'35
minimum elong	-699 Sep 13 j 23:15	13°♍32'44	2°14'35
max. Earth dist.	-699 Sep 13 j 22:10	13°♍32'25	10.85384 AU
morning rise	-699 Sep 30 j 18:59	15°♍32'49	
retrograde	-698 Jan 07 j 21:07	22°♍36'48	
opposition	-698 Mar 17 j 13:37	19°♍19'09	2°48'56
min. Earth dist.	-698 Mar 17 j 14:51	19°♍18'55	8.90557 AU
direct	-698 May 27 j 16:45	15°♍56'04	
evening set	-698 Sep 09 j 02:13	23°♍16'06	
conjunction	-698 Sep 25 j 22:21	25°♍15'14	2°20'00
minimum elong	-698 Sep 25 j 22:20	25°♍15'14	2°19'59
max. Earth dist.	-698 Sep 25 j 19:13	25°♍14'19	10.94970 AU
morning rise	-698 Oct 12 j 14:24	27°♍13'13	
	-698 Nov 06 j 19:40	0°♎	
retrograde	-697 Jan 19 j 16:30	4°♎12'33	
opposition	-697 Mar 29 j 18:33	0°♎55'35	2°51'46
min. Earth dist.	-697 Mar 29 j 21:04	0°♎55'06	8.99225 AU
	-697 Apr 11 j 08:05	30℞♍	
direct	-697 Jun 09 j 03:18	27°♍33'40	
	-697 Aug 04 j 17:09	0°♎	
evening set	-697 Sep 20 j 21:27	4°♎47'12	
conjunction	-697 Oct 07 j 14:26	6°♎44'37	2°19'39
minimum elong	-697 Oct 07 j 14:27	6°♎44'38	2°19'38
max. Earth dist.	-697 Oct 07 j 10:08	6°♎43'21	11.02616 AU
morning rise	-697 Oct 24 j 03:44	8°♎41'02	
retrograde	-696 Jan 31 j 08:15	15°♎37'12	
opposition	-696 Apr 09 j 20:42	12°♎20'35	2°47'46
min. Earth dist.	-696 Apr 10 j 01:09	12°♎19'45	9.05814 AU
direct	-696 Jun 20 j 06:52	8°♎59'42	
evening set	-696 Oct 01 j 10:15	16°♎07'42	
conjunction	-696 Oct 18 j 00:50	18°♎03'53	2°13'48
minimum elong	-696 Oct 18 j 00:52	18°♎03'54	2°13'48
max. Earth dist.	-696 Oct 17 j 18:27	18°♎02'01	11.08088 AU
morning rise	-696 Nov 03 j 12:34	19°♎59'18	
retrograde	-695 Feb 10 j 22:37	26°♎53'46	
opposition	-695 Apr 21 j 20:46	23°♎37'14	2°37'21
min. Earth dist.	-695 Apr 22 j 03:18	23°♎36'01	9.10122 AU
direct	-695 Jul 02 j 07:58	20°♎17'10	
evening set	-695 Oct 12 j 18:25	27°♎20'48	
conjunction	-695 Oct 29 j 07:27	29°♎16'16	2°02'52
minimum elong	-695 Oct 29 j 07:29	29°♎16'17	2°02'52
max. Earth dist.	-695 Oct 28 j 22:53	29°♎13'46	11.11219 AU
	-695 Nov 04 j 12:55	0°♏	
morning rise	-695 Nov 14 j 18:37	1°♏11'12	
retrograde	-694 Feb 22 j 11:58	8°♏05'29	
opposition	-694 May 03 j 19:30	4°♏48'42	2°21'04
min. Earth dist.	-694 May 04 j 03:15	4°♏47'16	9.12015 AU
direct	-694 Jul 14 j 04:45	1°♏29'17	
evening set	-694 Oct 23 j 23:29	8°♏29'49	
conjunction	-694 Nov 09 j 11:54	10°♏25'04	1°47'19
minimum elong	-694 Nov 09 j 11:56	10°♏25'04	1°47'19
max. Earth dist.	-694 Nov 09 j 02:48	10°♏22'24	11.11914 AU
morning rise	-694 Nov 25 j 23:10	12°♏20'02	

Attention, astronomical year style is used: The year -694 in astronomical counting style is the year 695 BCE in historical counting style.

	-694 Dec 20 j 11:01	15°♏	
retrograde	-693 Mar 06 j 04:05	19°♏15'43	
opposition	-693 May 15 j 18:26	15°♏58'25	1°59'31
min. Earth dist.	-693 May 16 j 02:17	15°♏56'58	9.11437 AU
	-693 May 29 j 05:36	15°℞♏	
direct	-693 Jul 26 j 00:04	12°♏39'29	
	-693 Sep 19 j 02:32	15°♏	
evening set	-693 Nov 04 j 03:11	19°♏38'15	
conjunction	-693 Nov 20 j 15:43	21°♏33'46	1°27'41
minimum elong	-693 Nov 20 j 15:45	21°♏33'46	1°27'40
max. Earth dist.	-693 Nov 20 j 06:33	21°♏31'04	11.10149 AU
morning rise	-693 Dec 07 j 03:46	23°♏29'14	
	-692 Feb 22 j 00:11	0°♐	
retrograde	-692 Mar 17 j 00:05	0°♐27'54	
	-692 Apr 10 j 05:32	30°℞♏	
opposition	-692 May 26 j 18:33	27°♏09'52	1°33'22
min. Earth dist.	-692 May 27 j 02:46	27°♏08'21	9.08420 AU
direct	-692 Aug 05 j 16:47	23°♏51'14	
	-692 Nov 07 j 01:04	0°♐	
evening set	-692 Nov 14 j 07:41	0°♐49'43	
conjunction	-692 Nov 30 j 20:46	2°♐45'55	1°04'36
minimum elong	-692 Nov 30 j 20:48	2°♐45'56	1°04'35
max. Earth dist.	-692 Nov 30 j 10:36	2°♐42'56	11.05992 AU
morning rise	-692 Dec 17 j 10:25	4°♐42'22	
retrograde	-691 Mar 28 j 21:52	11°♐45'34	
opposition	-691 Jun 07 j 20:44	8°♐26'36	1°03'24
min. Earth dist.	-691 Jun 08 j 05:51	8°♐24'55	9.03070 AU
direct	-691 Aug 17 j 09:18	5°♐08'02	
evening set	-691 Nov 25 j 14:34	12°♐07'50	
conjunction	-691 Dec 12 j 04:46	14°♐05'09	0°38'46
minimum elong	-691 Dec 12 j 04:47	14°♐05'10	0°38'45
max. Earth dist.	-691 Dec 11 j 17:53	14°♐01'56	10.99579 AU
morning rise	-691 Dec 28 j 20:33	16°♐02'58	
retrograde	-690 Apr 10 j 02:29	23°♐12'19	
opposition	-690 Jun 20 j 02:18	19°♐52'13	0°30'31
min. Earth dist.	-690 Jun 20 j 11:27	19°♐50'31	8.95561 AU
direct	-690 Aug 29 j 05:23	16°♐33'30	
evening set	-690 Dec 07 j 01:34	23°♐36'10	
conjunction	-690 Dec 23 j 17:25	25°♐34'59	0°11'03
minimum elong	-690 Dec 23 j 17:26	25°♐34'59	0°11'03
behind sun begin	-690 Dec 23 j 12:08	25°♐33'25	
behind sun end	-690 Dec 23 j 22:43	25°♐36'33	
max. Earth dist.	-690 Dec 23 j 07:31	25°♐32'02	10.91113 AU
morning rise	-689 Jan 09 j 11:33	27°♐34'33	
	-689 Jan 31 j 01:40	0°♑	
retrograde	-689 Apr 22 j 13:42	4°♑51'31	
desc. node	-689 May 17 j 23:36	4°♑20'48	
opposition	-689 Jul 02 j 12:14	1°♑30'07	-0°04'15
min. Earth dist.	-689 Jul 02 j 20:15	1°♑28'37	8.86153 AU
	-689 Jul 23 j 07:29	30°℞♐	
direct	-689 Sep 10 j 02:52	28°♐11'04	
	-689 Oct 27 j 01:24	0°♑	
evening set	-689 Dec 18 j 18:45	5°♑18'11	
conjunction	-688 Jan 04 j 12:38	7°♑18'50	-0°17'43
minimum elong	-688 Jan 04 j 12:37	7°♑18'50	0°17'42
max. Earth dist.	-688 Jan 04 j 04:02	7°♑16'15	10.80896 AU
morning rise	-688 Jan 21 j 09:24	9°♑20'28	
retrograde	-688 May 04 j 09:08	16°♑46'23	
opposition	-688 Jul 14 j 03:21	13°♑23'34	-0°39'40
min. Earth dist.	-688 Jul 14 j 09:57	13°♑22'19	8.75200 AU
direct	-688 Sep 21 j 05:01	10°♑03'58	
evening set	-688 Dec 29 j 19:47	17°♑17'04	

conjunction	-687 Jan 15 j 15:52	19°♑19'51	-0°46'15
minimum elong	-687 Jan 15 j 15:50	19°♑19'51	0°46'15
max. Earth dist.	-687 Jan 15 j 07:48	19°♑17'23	10.69326 AU
morning rise	-687 Feb 01 j 15:39	21°♑23'50	
retrograde	-687 May 17 j 13:37	28°♑59'44	
opposition	-687 Jul 27 j 00:36	25°♑35'27	-1°14'17
min. Earth dist.	-687 Jul 27 j 06:16	25°♑34'22	8.63143 AU
direct	-687 Oct 03 j 11:40	22°♑15'07	
evening set	-686 Jan 11 j 06:05	29°♑35'35	
	-686 Jan 14 j 14:19	0°♒	
conjunction	-686 Jan 28 j 04:37	1°♒40'43	-1°13'21
minimum elong	-686 Jan 28 j 04:35	1°♒40'43	1°13'22
max. Earth dist.	-686 Jan 27 j 21:33	1°♒38'32	10.56890 AU
morning rise	-686 Feb 14 j 07:38	3°♒47'16	
retrograde	-686 May 31 j 01:29	11°♒33'50	
opposition	-686 Aug 09 j 04:27	8°♒08'07	-1°46'27
min. Earth dist.	-686 Aug 09 j 09:02	8°♒07'14	8.50517 AU
direct	-686 Oct 16 j 01:14	4°♒46'51	
evening set	-685 Jan 24 j 02:52	12°♒15'50	
conjunction	-685 Feb 10 j 04:21	14°♒23'33	-1°37'36
minimum elong	-685 Feb 10 j 04:18	14°♒23'32	1°37'37
max. Earth dist.	-685 Feb 09 j 23:28	14°♒22'01	10.44165 AU
	-685 Feb 15 j 00:27	15°♒	
morning rise	-685 Feb 27 j 10:42	16°♒32'46	
retrograde	-685 Jun 13 j 21:27	24°♒30'11	
opposition	-685 Aug 22 j 15:06	21°♒03'04	-2°14'17
min. Earth dist.	-685 Aug 22 j 17:56	21°♒02'30	8.37933 AU
direct	-685 Oct 29 j 00:13	17°♒40'44	
evening set	-684 Feb 06 j 10:54	25°♒18'59	
conjunction	-684 Feb 23 j 15:50	27°♒29'23	-1°57'30
minimum elong	-684 Feb 23 j 15:47	27°♒29'22	1°57'31
max. Earth dist.	-684 Feb 23 j 14:03	27°♒28'49	10.31782 AU
morning rise	-684 Mar 12 j 01:37	29°♒41'22	
	-684 Mar 14 j 13:42	0°♓	
retrograde	-684 Jun 27 j 02:55	7°♓49'03	
opposition	-684 Sep 04 j 08:21	4°♓20'40	-2°35'51
min. Earth dist.	-684 Sep 04 j 08:43	4°♓20'36	8.26022 AU
direct	-684 Nov 10 j 05:54	0°♓57'13	
evening set	-683 Feb 19 j 06:36	8°♓44'57	
conjunction	-683 Mar 08 j 15:15	10°♓58'04	-2°11'32
minimum elong	-683 Mar 08 j 15:14	10°♓58'03	2°11'32
max. Earth dist.	-683 Mar 08 j 16:18	10°♓58'24	10.20392 AU
morning rise	-683 Mar 26 j 04:38	13°♓12'44	
retrograde	-683 Jul 11 j 15:41	21°♓29'18	
opposition	-683 Sep 18 j 07:34	17°♓59'54	-2°49'21
min. Earth dist.	-683 Sep 18 j 05:30	18°♓00'19	8.15425 AU
direct	-683 Nov 23 j 19:06	14°♓35'14	
evening set	-682 Mar 05 j 13:15	22°♓32'07	
conjunction	-682 Mar 23 j 01:57	24°♓47'50	-2°18'25
minimum elong	-682 Mar 23 j 01:57	24°♓47'50	2°18'25
max. Earth dist.	-682 Mar 23 j 05:20	24°♓48'56	10.10641 AU
morning rise	-682 Apr 09 j 19:08	27°♓05'02	
	-682 May 03 j 17:46	0°♈	
retrograde	-682 Jul 26 j 09:24	5°♈28'18	
opposition	-682 Oct 02 j 11:56	1°♈58'09	-2°53'14
min. Earth dist.	-682 Oct 02 j 08:07	1°♈58'56	8.06733 AU
	-682 Oct 28 j 03:39	30°℞♓	
direct	-682 Dec 07 j 17:09	28°♓32'16	
	-681 Jan 16 j 13:49	0°♈	
evening set	-681 Mar 20 j 05:33	6°♈37'15	
conjunction	-681 Apr 06 j 22:34	8°♈55'21	-2°17'12

Attention, astronomical year style is used: The year -681 in astronomical counting style is the year 682 BCE in historical counting style.

minimum elong	-681 Apr 06 j 22:35	8°♈55'22	2°17'12	
max. Earth dist.	-681 Apr 07 j 03:41	8°♈57'02	10.03065 AU	
morning rise	-681 Apr 24 j 19:34	11°♈14'44		
retrograde	-681 Aug 10 j 05:14	19°♈41'56		
opposition	-681 Oct 16 j 19:57	16°♈11'25	-2°46'39	
min. Earth dist.	-681 Oct 16 j 15:06	16°♈12'25	8.00395 AU	
direct	-681 Dec 21 j 22:30	12°♈44'22		
evening set	-680 Apr 03 j 05:52	20°♈56'00		
conjunction	-680 Apr 21 j 03:07	23°♈16'05	-2°07'33	
minimum elong	-680 Apr 21 j 03:10	23°♈16'06	2°07'33	
max. Earth dist.	-680 Apr 21 j 09:27	23°♈18'10	9.98055 AU	
morning rise	-680 May 09 j 03:34	25°♈37'10		
	-680 Jun 14 j 23:22	0°♉		
retrograde	-680 Aug 24 j 01:40	4°♉05'11		
opposition	-680 Oct 30 j 05:52	0°♉34'46	-2°29'34	
min. Earth dist.	-680 Oct 30 j 00:21	0°♉35'55	7.96781 AU	
	-680 Nov 06 j 06:01	30°℞♈		
direct	-679 Jan 04 j 09:29	27°♈06'43		
	-679 Mar 02 j 12:54	0°♉		
evening set	-679 Apr 18 j 11:35	5°♉23'01		
conjunction	-679 May 06 j 12:36	7°♉44'29	-1°49'51	
minimum elong	-679 May 06 j 12:39	7°♉44'30	1°49'51	
max. Earth dist.	-679 May 06 j 20:23	7°♉47'02	9.95981 AU	
morning rise	-679 May 24 j 15:41	10°♉06'34		
	-679 Jul 05 j 09:57	15°♉		
retrograde	-679 Sep 07 j 20:19	18°♉32'12		
opposition	-679 Nov 13 j 16:11	15°♉02'14	-2°02'54	
min. Earth dist.	-679 Nov 13 j 09:35	15°♉03'37	7.96244 AU	
	-679 Nov 14 j 02:57	15°℞♉		
direct	-678 Jan 19 j 00:41	11°♉33'25		
	-678 Mar 23 j 03:35	15°♉		
evening set	-678 May 03 j 19:40	19°♉51'53		
conjunction	-678 May 21 j 23:29	22°♉13'55	-1°25'12	
minimum elong	-678 May 21 j 23:33	22°♉13'56	1°25'12	
max. Earth dist.	-678 May 22 j 08:54	22°♉17'00	9.97108 AU	
morning rise	-678 Jun 09 j 04:00	24°♉36'07		
	-678 Jul 26 j 08:32	0°♊		
retrograde	-678 Sep 22 j 10:37	2°♊56'17		
	-678 Nov 21 j 09:49	30°℞♉		
opposition	-678 Nov 28 j 00:47	29°♉27'07	-1°28'33	
min. Earth dist.	-678 Nov 27 j 17:01	29°♉28'44	7.98924 AU	
direct	-677 Feb 02 j 18:15	25°♉57'47		
	-677 Apr 13 j 02:00	0°♊		
evening set	-677 May 19 j 03:14	4°♊15'50		
conjunction	-677 Jun 06 j 08:23	6°♊37'27	-0°55'23	
minimum elong	-677 Jun 06 j 08:25	6°♊37'28	0°55'23	
max. Earth dist.	-677 Jun 06 j 18:55	6°♊40'53	10.01418 AU	
morning rise	-677 Jun 24 j 12:42	8°♊58'47		
retrograde	-677 Oct 06 j 18:03	17°♊10'56		
opposition	-677 Dec 12 j 05:46	13°♊42'53	-0°49'04	
min. Earth dist.	-677 Dec 11 j 21:15	13°♊44'39	8.04680 AU	
direct	-676 Feb 17 j 11:09	10°♊13'19		
evening set	-676 Jun 02 j 06:54	18°♊28'28		
conjunction	-676 Jun 20 j 11:36	20°♊48'43	-0°22'34	
minimum elong	-676 Jun 20 j 11:37	20°♊48'44	0°22'34	
max. Earth dist.	-676 Jun 20 j 22:39	20°♊52'18	10.08631 AU	
morning rise	-676 Jul 08 j 14:00	23°♊08'15		
	-676 Sep 13 j 20:25	0°♋		
retrograde	-676 Oct 19 j 17:37	1°♋10'42		
	-676 Nov 25 j 00:32	30°℞♊		
opposition	-676 Dec 25 j 05:57	27°♊43'59	-0°07'22	
min. Earth dist.	-676 Dec 24 j 21:17	27°♊45'46	8.13135 AU	

asc. node	-675 Mar 01 j 23:56	24°♊14'33		
direct	-675 Mar 03 j 00:27	24°♊14'29		
	-675 May 28 j 05:33	0°♋		
evening set	-675 Jun 17 j 03:36	2°♋24'37		
conjunction	-675 Jul 05 j 06:04	4°♋42'39	0°11'04	
minimum elong	-675 Jul 05 j 06:03	4°♋42'39	0°11'04	
behind sun begin	-675 Jul 05 j 00:39	4°♋40'56		
behind sun end	-675 Jul 05 j 11:27	4°♋44'21		
max. Earth dist.	-675 Jul 05 j 16:55	4°♋46'07	10.18262 AU	
morning rise	-675 Jul 23 j 05:04	6°♋59'36		
retrograde	-675 Nov 02 j 09:07	14°♋51'29		
opposition	-674 Jan 08 j 00:08	11°♋26'14	0°33'47	
min. Earth dist.	-674 Jan 07 j 16:22	11°♋27'49	8.23737 AU	
direct	-674 Mar 17 j 08:36	7°♋57'06		
evening set	-674 Jul 01 j 15:28	16°♋00'36		
conjunction	-674 Jul 19 j 14:11	18°♋15'48	0°43'16	
minimum elong	-674 Jul 19 j 14:09	18°♋15'47	0°43'17	
max. Earth dist.	-674 Jul 19 j 23:34	18°♋18'45	10.29693 AU	
morning rise	-674 Aug 06 j 08:40	20°♋29'39		
retrograde	-674 Nov 15 j 15:30	28°♋10'46		
opposition	-673 Jan 21 j 11:33	24°♋47'03	1°11'55	
min. Earth dist.	-673 Jan 21 j 05:17	24°♋48'19	8.35828 AU	
direct	-673 Mar 31 j 10:40	21°♋18'33		
evening set	-673 Jul 15 j 16:56	29°♋14'20		
	-673 Jul 21 j 21:25	0°♌		
conjunction	-673 Aug 02 j 10:50	1°♌26'19	1°12'25	
minimum elong	-673 Aug 02 j 10:47	1°♌26'18	1°12'26	
max. Earth dist.	-673 Aug 02 j 17:52	1°♌28'31	10.42238 AU	
morning rise	-673 Aug 20 j 00:05	3°♌36'50		
retrograde	-673 Nov 28 j 10:44	11°♌07'38		
opposition	-672 Feb 03 j 16:18	7°♌45'26	1°45'13	
min. Earth dist.	-672 Feb 03 j 11:22	7°♌46'24	8.48709 AU	
direct	-672 Apr 13 j 07:20	4°♌17'48		
evening set	-672 Jul 28 j 06:59	12°♌05'15		
conjunction	-672 Aug 14 j 19:33	14°♌13'53	1°37'12	
minimum elong	-672 Aug 14 j 19:30	14°♌13'52	1°37'12	
max. Earth dist.	-672 Aug 15 j 00:25	14°♌15'23	10.55214 AU	
	-672 Aug 21 j 01:22	15°♌		
morning rise	-672 Sep 01 j 03:19	16°♌21'01		
retrograde	-672 Dec 09 j 23:17	23°♌42'29		
opposition	-671 Feb 15 j 14:24	20°♌21'39	2°12'21	
min. Earth dist.	-671 Feb 15 j 10:23	20°♌22'26	8.61704 AU	
direct	-671 Apr 26 j 19:09	16°♌55'06		
evening set	-671 Aug 10 j 09:48	24°♌34'00		
conjunction	-671 Aug 27 j 17:07	26°♌39'27	1°56'43	
minimum elong	-671 Aug 27 j 17:03	26°♌39'26	1°56'43	
max. Earth dist.	-671 Aug 27 j 20:23	26°♌40'27	10.67983 AU	
morning rise	-671 Sep 13 j 19:27	28°♌43'24		
	-671 Sep 24 j 17:24	0°♍		
retrograde	-671 Dec 22 j 05:48	5°♍56'37		
opposition	-670 Feb 28 j 06:16	2°♍37'01	2°32'36	
min. Earth dist.	-670 Feb 28 j 03:31	2°♍37'33	8.74194 AU	
	-670 Apr 08 j 03:44	30°℞♌		
direct	-670 May 09 j 21:31	29°♌11'42		
	-670 Jun 10 j 09:45	0°♍		
evening set	-670 Aug 23 j 01:57	6°♍42'18		
conjunction	-670 Sep 09 j 04:19	8°♍44'51	2°10'31	
minimum elong	-670 Sep 09 j 04:17	8°♍44'51	2°10'31	
max. Earth dist.	-670 Sep 09 j 06:08	8°♍45'24	10.79964 AU	
morning rise	-670 Sep 26 j 01:46	10°♍46'00		
retrograde	-669 Jan 03 j 05:25	17°♍52'17		

Attention, astronomical year style is used: The year -669 in astronomical counting style is the year 670 BCE in historical counting style.

opposition	-669 Mar 12 j 16:55	14°♍33'47	2°45'38
min. Earth dist.	-669 Mar 12 j 16:17	14°♍33'55	8.85632 AU
direct	-669 May 22 j 16:42	11°♍09'45	
evening set	-669 Sep 04 j 08:21	18°♍32'34	
conjunction	-669 Sep 21 j 06:13	20°♍32'37	2°18'26
minimum elong	-669 Sep 21 j 06:12	20°♍32'37	2°18'25
max. Earth dist.	-669 Sep 21 j 05:40	20°♍32'27	10.90661 AU
morning rise	-669 Oct 07 j 23:40	22°♍31'24	
retrograde	-668 Jan 15 j 00:47	29°♍32'12	
opposition	-668 Mar 23 j 23:08	26°♍14'37	2°51'27
min. Earth dist.	-668 Mar 24 j 00:48	26°♍14'18	8.95563 AU
direct	-668 Jun 03 j 05:24	22°♍51'52	
	-668 Sep 14 j 03:44	0°♎	
evening set	-668 Sep 15 j 06:17	0°♎07'40	
conjunction	-668 Oct 02 j 00:25	2°♎05'41	2°20'30
minimum elong	-668 Oct 02 j 00:25	2°♎05'41	2°20'30
max. Earth dist.	-668 Oct 01 j 21:07	2°♎04'43	10.99671 AU
morning rise	-668 Oct 18 j 14:55	4°♎02'39	
retrograde	-667 Jan 25 j 15:45	10°♎59'27	
opposition	-667 Apr 05 j 01:40	7°♎42'29	2°50'17
min. Earth dist.	-667 Apr 05 j 04:47	7°♎41'54	9.03617 AU
direct	-667 Jun 15 j 12:03	4°♎20'58	
evening set	-667 Sep 26 j 21:00	11°♎30'41	
conjunction	-667 Oct 13 j 12:28	13°♎27'13	2°16'58
minimum elong	-667 Oct 13 j 12:29	13°♎27'13	2°16'58
max. Earth dist.	-667 Oct 13 j 07:42	13°♎25'48	11.06663 AU
morning rise	-667 Oct 30 j 00:54	15°♎22'53	
retrograde	-666 Feb 06 j 06:40	22°♎17'13	
opposition	-666 Apr 17 j 01:38	19°♎00'37	2°42'33
min. Earth dist.	-666 Apr 17 j 05:40	18°♎59'53	9.09489 AU
direct	-666 Jun 27 j 14:37	15°♎40'14	
evening set	-666 Oct 08 j 06:23	22°♎44'58	
conjunction	-666 Oct 24 j 20:04	24°♎40'31	2°08'10
minimum elong	-666 Oct 24 j 20:06	24°♎40'31	2°08'10
max. Earth dist.	-666 Oct 24 j 14:28	24°♎38'53	11.11376 AU
morning rise	-666 Nov 10 j 07:13	26°♎35'25	
	-666 Dec 12 j 09:39	0°♏	
retrograde	-665 Feb 17 j 20:53	3°♏28'48	
opposition	-665 Apr 29 j 00:13	0°♏12'19	2°28'43
min. Earth dist.	-665 Apr 29 j 05:34	0°♏11'20	9.12980 AU
	-665 May 01 j 19:20	30°℞♎	
direct	-665 Jul 09 j 10:47	26°♎52'55	
	-665 Sep 12 j 01:06	0°♏	
evening set	-665 Oct 19 j 12:07	3°♏53'51	
conjunction	-665 Nov 05 j 00:41	5°♏48'56	1°54'33
minimum elong	-665 Nov 05 j 00:44	5°♏48'56	1°54'34
max. Earth dist.	-665 Nov 04 j 17:29	5°♏46'49	11.13663 AU
morning rise	-665 Nov 21 j 11:38	7°♏43'36	
retrograde	-664 Feb 29 j 11:03	14°♏37'36	
opposition	-664 May 09 j 22:32	11°♏20'57	2°09'23
min. Earth dist.	-664 May 10 j 05:44	11°♏19'38	9.13992 AU
direct	-664 Jul 20 j 05:15	8°♏02'16	
evening set	-664 Oct 29 j 15:47	15°♏00'47	
	-664 Oct 29 j 13:03	15°♏	
conjunction	-664 Nov 15 j 03:59	16°♏55'52	1°36'39
minimum elong	-664 Nov 15 j 04:01	16°♏55'52	1°36'38
max. Earth dist.	-664 Nov 14 j 18:56	16°♏53'13	11.13453 AU
morning rise	-664 Dec 01 j 15:38	18°♏50'49	
retrograde	-663 Mar 12 j 03:47	25°♏47'00	
opposition	-663 May 21 j 21:24	22°♏29'52	1°45'11
min. Earth dist.	-663 May 22 j 05:34	22°♏28'22	9.12478 AU
direct	-663 Jul 31 j 22:49	19°♏11'41	
evening set	-663 Nov 09 j 19:17	26°♏09'11	
conjunction	-663 Nov 26 j 07:55	28°♏04'45	1°15'01
minimum elong	-663 Nov 26 j 07:57	28°♏04'46	1°15'00
max. Earth dist.	-663 Nov 25 j 22:27	28°♏01'58	11.10721 AU
morning rise	-663 Dec 12 j 20:44	0°♐00'25	
	-663 Dec 12 j 19:16	0°♐	
retrograde	-662 Mar 23 j 23:52	7°♐00'22	
opposition	-662 Jun 02 j 21:48	3°♐42'28	1°16'51
min. Earth dist.	-662 Jun 03 j 06:02	3°♐40'57	9.08453 AU
direct	-662 Aug 12 j 15:57	0°♐24'33	
evening set	-662 Nov 21 j 00:22	7°♐22'33	
conjunction	-662 Dec 07 j 14:00	9°♐19'01	0°50'22
minimum elong	-662 Dec 07 j 14:01	9°♐19'02	0°50'21
max. Earth dist.	-662 Dec 07 j 04:35	9°♐16'15	11.05511 AU
morning rise	-662 Dec 24 j 04:29	11°♐15'50	
retrograde	-661 Apr 05 j 02:39	18°♐21'08	
opposition	-661 Jun 15 j 01:13	15°♐02'14	0°45'15
min. Earth dist.	-661 Jun 15 j 09:31	15°♐00'43	9.02000 AU
direct	-661 Aug 24 j 09:34	11°♐44'18	
evening set	-661 Dec 02 j 08:50	18°♐44'23	
conjunction	-661 Dec 18 j 23:45	20°♐42'11	0°23'27
minimum elong	-661 Dec 18 j 23:46	20°♐42'11	0°23'27
max. Earth dist.	-661 Dec 18 j 13:16	20°♐39'04	10.97936 AU
morning rise	-660 Jan 04 j 16:33	22°♐40'35	
retrograde	-660 Apr 16 j 10:00	29°♐52'49	
opposition	-660 Jun 26 j 08:33	26°♐32'42	0°11'17
min. Earth dist.	-660 Jun 26 j 17:34	26°♐31'01	8.93285 AU
direct	-660 Sep 04 j 03:47	23°♐14'28	
desc. node	-660 Oct 26 j 08:06	25°♐26'12	
	-660 Dec 10 j 07:47	0°♑	
evening set	-660 Dec 12 j 22:40	0°♑18'23	
conjunction	-660 Dec 29 j 15:19	2°♑17'52	-0°04'57
minimum elong	-660 Dec 29 j 15:18	2°♑17'52	0°04'57
behind sun begin	-660 Dec 29 j 08:29	2°♑15'50	
behind sun end	-660 Dec 29 j 22:08	2°♑19'53	
max. Earth dist.	-660 Dec 29 j 04:09	2°♑14'32	10.88229 AU
morning rise	-659 Jan 15 j 10:49	4°♑18'13	
retrograde	-659 Apr 28 j 23:55	11°♑38'53	
opposition	-659 Jul 08 j 20:34	8°♑17'22	-0°23'53
min. Earth dist.	-659 Jul 09 j 05:42	8°♑15'39	8.82638 AU
direct	-659 Sep 16 j 04:23	4°♑58'33	
evening set	-659 Dec 24 j 19:25	12°♑07'56	
conjunction	-658 Jan 10 j 14:16	14°♑09'28	-0°33'35
minimum elong	-658 Jan 10 j 14:15	14°♑09'27	0°33'35
max. Earth dist.	-658 Jan 10 j 04:08	14°♑06'23	10.76795 AU
morning rise	-658 Jan 27 j 12:35	16°♑12'05	
retrograde	-658 May 11 j 23:20	23°♑42'27	
opposition	-658 Jul 21 j 14:27	20°♑19'20	-0°58'56
min. Earth dist.	-658 Jul 21 j 22:23	20°♑17'50	8.70533 AU
direct	-658 Sep 28 j 09:04	16°♑59'44	
evening set	-657 Jan 06 j 00:38	24°♑15'58	
conjunction	-657 Jan 22 j 22:01	26°♑19'49	-1°01'26
minimum elong	-657 Jan 22 j 21:59	26°♑19'48	1°01'26
max. Earth dist.	-657 Jan 22 j 13:47	26°♑17'17	10.64148 AU
morning rise	-657 Feb 08 j 23:18	28°♑24'57	
	-657 Feb 22 j 10:06	0°♒	
retrograde	-657 May 25 j 07:14	6°♒05'55	
opposition	-657 Aug 03 j 14:43	2°♒41'07	-1°32'21
min. Earth dist.	-657 Aug 03 j 20:38	2°♒39'59	8.57522 AU
	-657 Sep 13 j 02:01	30°℞♑	

Attention, astronomical year style is used: The year -657 in astronomical counting style is the year 658 BCE in historical counting style.

direct	-657 Oct 10 j 19:05	29°♓20'30	
	-657 Nov 07 j 01:35	0°♒	
evening set	-656 Jan 18 j 16:02	6°♒44'54	
conjunction	-656 Feb 04 j 16:09	8°♒51'17	-1°27'06
minimum elong	-656 Feb 04 j 16:06	8°♒51'16	1°27'06
max. Earth dist.	-656 Feb 04 j 09:22	8°♒49'10	10.50873 AU
morning rise	-656 Feb 21 j 20:42	10°♒59'06	
	-656 Mar 28 j 11:21	15°♒	
retrograde	-656 Jun 06 j 23:55	18°♒51'04	
opposition	-656 Aug 15 j 21:37	15°♒24'37	-2°02'19
min. Earth dist.	-656 Aug 16 j 01:52	15°♒23'47	8.44213 AU
	-656 Aug 21 j 03:49	15°℞♒	
direct	-656 Oct 22 j 12:44	12°♒02'47	
	-656 Dec 20 j 09:24	15°♒	
evening set	-655 Jan 30 j 18:25	19°♒36'20	
conjunction	-655 Feb 16 j 21:35	21°♒45'25	-1°49'07
minimum elong	-655 Feb 16 j 21:33	21°♒45'24	1°49'08
max. Earth dist.	-655 Feb 16 j 16:14	21°♒43'43	10.37609 AU
morning rise	-655 Mar 06 j 05:42	23°♒56'04	
	-655 May 02 j 23:43	0°♓	
retrograde	-655 Jun 21 j 01:29	1°♓58'50	
	-655 Aug 10 j 02:27	30°℞♒	
opposition	-655 Aug 29 j 11:29	28°♒30'52	-2°26'59
min. Earth dist.	-655 Aug 29 j 14:14	28°♒30'19	8.31257 AU
direct	-655 Nov 04 j 13:35	25°♒07'41	
	-654 Jan 20 j 12:27	0°♓	
evening set	-654 Feb 13 j 08:09	2°♓50'56	
conjunction	-654 Mar 02 j 14:50	5°♓02'47	-2°05'59
minimum elong	-654 Mar 02 j 14:47	5°♓02'46	2°06'00
max. Earth dist.	-654 Mar 02 j 11:44	5°♓01'47	10.25033 AU
morning rise	-654 Mar 20 j 02:37	7°♓16'15	
retrograde	-654 Jul 05 j 09:57	15°♓28'56	
opposition	-654 Sep 12 j 07:54	11°♓59'39	-2°44'23
min. Earth dist.	-654 Sep 12 j 08:58	11°♓59'26	8.19337 AU
direct	-654 Nov 17 j 23:51	8°♓35'06	
evening set	-653 Feb 27 j 09:24	16°♓28'02	
conjunction	-653 Mar 16 j 20:08	18°♓42'39	-2°16'17
minimum elong	-653 Mar 16 j 20:07	18°♓42'38	2°16'17
max. Earth dist.	-653 Mar 16 j 20:11	18°♓42'39	10.13837 AU
morning rise	-653 Apr 03 j 11:44	20°♓58'50	
retrograde	-653 Jul 20 j 00:17	29°♓19'40	
opposition	-653 Sep 26 j 09:57	25°♓49'20	-2°52'51
min. Earth dist.	-653 Sep 26 j 08:46	25°♓49'35	8.09124 AU
direct	-653 Dec 01 j 19:10	22°♓23'27	
	-652 Mar 09 j 13:38	0°♈	
evening set	-652 Mar 12 j 21:20	0°♈25'22	
conjunction	-652 Mar 30 j 12:30	2°♈42'37	-2°18'51
minimum elong	-652 Mar 30 j 12:30	2°♈42'37	2°18'51
max. Earth dist.	-652 Mar 30 j 15:46	2°♈43'41	10.04676 AU
morning rise	-652 Apr 17 j 07:53	5°♈01'14	
retrograde	-652 Aug 02 j 18:48	13°♈27'42	
opposition	-652 Oct 09 j 16:35	9°♈56'44	-2°51'08
min. Earth dist.	-652 Oct 09 j 12:58	9°♈57'28	8.01223 AU
direct	-652 Dec 14 j 21:19	6°♈29'35	
evening set	-651 Mar 27 j 18:21	14°♈39'08	
conjunction	-651 Apr 14 j 13:54	16°♈58'38	-2°13'03
minimum elong	-651 Apr 14 j 13:56	16°♈58'39	2°13'03
max. Earth dist.	-651 Apr 14 j 20:14	17°♈00'43	9.98124 AU
morning rise	-651 May 02 j 12:49	19°♈19'15	
retrograde	-651 Aug 17 j 16:12	27°♈48'13	
opposition	-651 Oct 24 j 02:11	24°♈17'02	-2°38'47

min. Earth dist.	-651 Oct 23 j 20:19	24°♈18'15	7.96143 AU
direct	-651 Dec 29 j 05:13	20°♈48'48	
evening set	-650 Apr 11 j 22:09	29°♈03'59	
	-650 Apr 19 j 02:31	0°♉	
conjunction	-650 Apr 29 j 21:47	1°♉25'11	-1°58'55
minimum elong	-650 Apr 29 j 21:50	1°♉25'12	1°58'55
max. Earth dist.	-650 Apr 30 j 06:36	1°♉28'06	9.94629 AU
morning rise	-650 May 17 j 23:44	3°♉47'10	
retrograde	-650 Sep 01 j 13:16	12°♉15'11	
opposition	-650 Nov 07 j 12:53	8°♉44'15	-2°16'16
min. Earth dist.	-650 Nov 07 j 05:27	8°♉45'48	7.94246 AU
direct	-649 Jan 12 j 18:25	5°♉15'08	
evening set	-649 Apr 27 j 05:56	13°♉33'36	
	-649 May 08 j 07:16	15°♉	
conjunction	-649 May 15 j 08:49	15°♉55'44	-1°37'14
minimum elong	-649 May 15 j 08:53	15°♉55'45	1°37'13
max. Earth dist.	-649 May 15 j 19:10	15°♉59'08	9.94439 AU
morning rise	-649 Jun 02 j 12:51	18°♉18'14	
retrograde	-649 Sep 16 j 06:48	26°♉41'59	
opposition	-649 Nov 21 j 22:52	23°♉11'46	-1°45'04
min. Earth dist.	-649 Nov 21 j 14:43	23°♉13'28	7.95671 AU
direct	-648 Jan 27 j 11:10	19°♉42'05	
evening set	-648 May 11 j 14:33	28°♉01'14	
	-648 May 26 j 20:01	0°♊	
conjunction	-648 May 29 j 19:19	0°♊23'21	-1°09'29
minimum elong	-648 May 29 j 19:22	0°♊23'22	1°09'28
max. Earth dist.	-648 May 30 j 06:24	0°♊26'59	9.97567 AU
morning rise	-648 Jun 16 j 23:57	2°♊45'24	
retrograde	-648 Sep 29 j 18:04	11°♊02'06	
opposition	-648 Dec 05 j 06:05	7°♊33'01	-1°07'29
min. Earth dist.	-648 Dec 04 j 21:37	7°♊34'47	8.00340 AU
direct	-647 Feb 10 j 05:03	4°♊03'05	
evening set	-647 May 26 j 20:37	12°♊20'23	
conjunction	-647 Jun 14 j 01:39	14°♊41'31	-0°37'41
minimum elong	-647 Jun 14 j 01:41	14°♊41'32	0°37'41
max. Earth dist.	-647 Jun 14 j 12:56	14°♊45'11	10.03816 AU
morning rise	-647 Jul 02 j 05:17	17°♊02'09	
retrograde	-647 Oct 13 j 21:08	25°♊09'45	
opposition	-647 Dec 19 j 09:01	21°♊42'06	-0°26'21
min. Earth dist.	-647 Dec 19 j 00:24	21°♊43'53	8.07959 AU
direct	-646 Feb 24 j 20:46	18°♊12'16	
evening set	-646 Jun 10 j 21:10	26°♊25'26	
conjunction	-646 Jun 29 j 00:49	28°♊44'42	-0°04'11
minimum elong	-646 Jun 29 j 00:48	28°♊44'42	0°04'10
behind sun begin	-646 Jun 28 j 17:34	28°♊42'24	
behind sun end	-646 Jun 29 j 08:02	28°♊47'00	
max. Earth dist.	-646 Jun 29 j 11:45	28°♊48'13	10.12772 AU
	-646 Jul 08 j 19:12	0°♋	
morning rise	-646 Jul 17 j 01:48	1°♋03'04	
asc. node	-646 Aug 14 j 08:40	4°♋25'01	
retrograde	-646 Oct 27 j 16:37	9°♋00'19	
opposition	-645 Jan 02 j 06:24	5°♋34'18	0°15'27
min. Earth dist.	-645 Jan 01 j 21:42	5°♋36'04	8.18029 AU
direct	-645 Mar 11 j 08:24	2°♋04'55	
evening set	-645 Jun 25 j 13:57	10°♋12'06	
conjunction	-645 Jul 13 j 14:33	12°♋28'45	0°29'03
minimum elong	-645 Jul 13 j 14:31	12°♋28'45	0°29'04
max. Earth dist.	-645 Jul 14 j 00:55	12°♋32'03	10.23849 AU
morning rise	-645 Jul 31 j 11:24	14°♋44'11	
retrograde	-645 Nov 10 j 03:24	22°♋30'38	
opposition	-644 Jan 15 j 21:24	19°♋06'19	0°55'17

Attention, astronomical year style is used: The year -644 in astronomical counting style is the year 645 BCE in historical counting style.

min. Earth dist.	-644 Jan 15 j 12:57	19°♋08'01	8.29918 AU
direct	-644 Mar 24 j 14:15	15°♋37'40	
evening set	-644 Jul 08 j 20:55	23°♋37'30	
conjunction	-644 Jul 26 j 17:13	25°♋51'03	0°59'49
minimum elong	-644 Jul 26 j 17:11	25°♋51'02	0°59'50
max. Earth dist.	-644 Jul 27 j 02:53	25°♋54'05	10.36377 AU
morning rise	-644 Aug 13 j 08:56	28°♋03'10	
	-644 Aug 29 j 16:14	0°♌	
retrograde	-644 Nov 22 j 05:09	5°♌38'59	
opposition	-643 Jan 28 j 05:51	2°♌16'21	1°30'59
min. Earth dist.	-643 Jan 27 j 22:32	2°♌17'48	8.42931 AU
	-643 Feb 28 j 13:01	30°℞♋	
direct	-643 Apr 07 j 13:16	28°♋48'40	
	-643 May 15 j 06:56	0°♌	
evening set	-643 Jul 22 j 16:46	6°♌40'14	
conjunction	-643 Aug 09 j 07:58	8°♌50'26	1°26'42
minimum elong	-643 Aug 09 j 07:55	8°♌50'25	1°26'43
max. Earth dist.	-643 Aug 09 j 16:00	8°♌52'56	10.49643 AU
morning rise	-643 Aug 26 j 18:07	10°♌59'07	
	-643 Oct 01 j 19:10	15°♌	
retrograde	-643 Dec 04 j 22:55	18°♌24'59	
opposition	-642 Feb 10 j 07:31	15°♌03'56	2°01'01
min. Earth dist.	-642 Feb 10 j 02:14	15°♌04'58	8.56339 AU
	-642 Feb 11 j 03:32	15°℞♌	
direct	-642 Apr 21 j 03:49	11°♌37'20	
	-642 Jun 26 j 06:27	15°♌	
evening set	-642 Aug 05 j 01:27	19°♌20'17	
conjunction	-642 Aug 22 j 11:10	21°♌27'10	1°48'40
minimum elong	-642 Aug 22 j 11:07	21°♌27'09	1°48'40
max. Earth dist.	-642 Aug 22 j 16:24	21°♌28'46	10.62923 AU
morning rise	-642 Sep 08 j 15:50	23°♌32'31	
	-642 Nov 16 j 16:20	0°♍	
retrograde	-642 Dec 17 j 07:33	0°♍49'24	
	-641 Jan 17 j 09:27	30°℞♌	
opposition	-641 Feb 23 j 02:36	27°♌29'46	2°24'23
min. Earth dist.	-641 Feb 22 j 23:43	27°♌30'19	8.69417 AU
direct	-641 May 04 j 11:15	24°♌04'22	
	-641 Aug 03 j 16:44	0°♍	
evening set	-641 Aug 17 j 22:58	1°♍38'47	
conjunction	-641 Sep 04 j 03:21	3°♍42'33	2°05'03
minimum elong	-641 Sep 04 j 03:18	3°♍42'32	2°05'03
max. Earth dist.	-641 Sep 04 j 05:10	3°♍43'06	10.75522 AU
morning rise	-641 Sep 21 j 03:00	5°♍44'54	
retrograde	-641 Dec 29 j 08:58	12°♍54'11	
opposition	-640 Mar 06 j 15:57	9°♍35'43	2°40'37
min. Earth dist.	-640 Mar 06 j 14:51	9°♍35'55	8.81484 AU
direct	-640 May 16 j 11:58	6°♍11'34	
evening set	-640 Aug 29 j 09:53	13°♍37'54	
conjunction	-640 Sep 15 j 09:36	15°♍38'59	2°15'34
minimum elong	-640 Sep 15 j 09:34	15°♍38'58	2°15'33
max. Earth dist.	-640 Sep 15 j 09:03	15°♍38'49	10.86822 AU
morning rise	-640 Oct 02 j 04:51	17°♍38'45	
retrograde	-639 Jan 09 j 07:52	24°♍41'59	
opposition	-639 Mar 19 j 00:19	21°♍24'27	2°49'36
min. Earth dist.	-639 Mar 19 j 00:51	21°♍24'21	8.91992 AU
direct	-639 May 29 j 04:12	18°♍01'35	
evening set	-639 Sep 10 j 11:49	25°♍20'34	
conjunction	-639 Sep 27 j 07:40	27°♍19'28	2°20'10
minimum elong	-639 Sep 27 j 07:39	27°♍19'28	2°20'10
max. Earth dist.	-639 Sep 27 j 05:23	27°♍18'48	10.96382 AU
morning rise	-639 Oct 13 j 23:19	29°♍17'11	
	-639 Oct 20 j 04:19	0°♎	
retrograde	-638 Jan 21 j 01:20	6°♎15'50	
opposition	-638 Mar 31 j 04:38	2°♎58'59	2°51'28
min. Earth dist.	-638 Mar 31 j 07:16	2°♎58'29	9.00591 AU
	-638 May 19 j 14:56	30°℞♍	
direct	-638 Jun 10 j 12:41	29°♍37'16	
	-638 Jul 02 j 07:45	0°♎	
evening set	-638 Sep 22 j 06:11	6°♎49'52	
conjunction	-638 Oct 08 j 22:52	8°♎47'03	2°19'03
minimum elong	-638 Oct 08 j 22:53	8°♎47'03	2°19'03
max. Earth dist.	-638 Oct 08 j 18:21	8°♎45'43	11.03917 AU
morning rise	-638 Oct 25 j 12:00	10°♎43'16	
retrograde	-637 Feb 01 j 16:36	17°♎38'50	
opposition	-637 Apr 12 j 06:13	14°♎22'22	2°46'34
min. Earth dist.	-637 Apr 12 j 11:22	14°♎21'25	9.07038 AU
direct	-637 Jun 22 j 17:13	11°♎01'39	
evening set	-637 Oct 03 j 18:15	18°♎08'50	
conjunction	-637 Oct 20 j 08:33	20°♎04'50	2°12'31
minimum elong	-637 Oct 20 j 08:35	20°♎04'51	2°12'31
max. Earth dist.	-637 Oct 20 j 01:25	20°♎02'44	11.09220 AU
morning rise	-637 Nov 05 j 20:16	22°♎00'06	
retrograde	-636 Feb 13 j 05:46	28°♎54'06	
opposition	-636 Apr 23 j 05:49	25°♎37'40	2°35'21
min. Earth dist.	-636 Apr 23 j 12:28	25°♎36'26	9.11150 AU
direct	-636 Jul 03 j 16:45	22°♎17'47	
evening set	-636 Oct 14 j 01:42	29°♎20'41	
	-636 Oct 19 j 18:11	0°♏	
conjunction	-636 Oct 30 j 14:41	1°♏16'01	2°00'57
minimum elong	-636 Oct 30 j 14:43	1°♏16'02	2°00'57
max. Earth dist.	-636 Oct 30 j 06:18	1°♏13'34	11.12138 AU
morning rise	-636 Nov 16 j 01:49	3°♏10'52	
retrograde	-635 Feb 23 j 19:49	10°♏04'50	
opposition	-635 May 05 j 04:11	6°♏48'06	2°18'21
min. Earth dist.	-635 May 05 j 11:25	6°♏46'47	9.12806 AU
direct	-635 Jul 15 j 14:12	3°♏28'52	
evening set	-635 Oct 25 j 06:14	10°♏28'46	
conjunction	-635 Nov 10 j 18:45	12°♏23'57	1°44'50
minimum elong	-635 Nov 10 j 18:48	12°♏23'57	1°44'50
max. Earth dist.	-635 Nov 10 j 10:06	12°♏21'25	11.12578 AU
morning rise	-635 Nov 27 j 06:01	14°♏18'51	
	-635 Dec 03 j 07:06	15°♏	
retrograde	-634 Mar 07 j 13:06	21°♏14'21	
opposition	-634 May 17 j 02:48	17°♏57'05	1°56'11
min. Earth dist.	-634 May 17 j 10:45	17°♏55'38	9.11957 AU
	-634 Jul 05 j 21:06	15°℞♏	
direct	-634 Jul 27 j 08:01	14°♏38'18	
	-634 Aug 17 j 12:21	15°♏	
evening set	-634 Nov 05 j 09:46	21°♏36'34	
conjunction	-634 Nov 21 j 22:17	23°♏32'03	1°24'45
minimum elong	-634 Nov 21 j 22:20	23°♏32'03	1°24'44
max. Earth dist.	-634 Nov 21 j 12:27	23°♏29'09	11.10531 AU
morning rise	-634 Dec 08 j 10:30	25°♏27'31	
	-633 Jan 22 j 04:51	0°♐	
retrograde	-633 Mar 19 j 06:37	2°♐26'07	
	-633 May 17 j 04:47	30°℞♏	
opposition	-633 May 29 j 02:46	29°♏08'05	1°29'33
min. Earth dist.	-633 May 29 j 11:49	29°♏06'25	9.08652 AU
direct	-633 Aug 07 j 23:27	25°♏49'31	
	-633 Oct 21 j 22:29	0°♐	
evening set	-633 Nov 16 j 14:06	2°♐47'42	
conjunction	-633 Dec 03 j 03:12	4°♐43'55	1°01'19

Attention, astronomical year style is used: The year -633 in astronomical counting style is the year 634 BCE in historical counting style.

minimum elong	-633 Dec 03 j 03:14	4°♐43'55	1°01'18	
max. Earth dist.	-633 Dec 02 j 16:12	4°♐40'40	11.06085 AU	
morning rise	-633 Dec 19 j 17:06	6°♐40'23		
retrograde	-632 Mar 30 j 05:38	13°♐43'43		
opposition	-632 Jun 09 j 04:57	10°♐24'42	0°59'14	
min. Earth dist.	-632 Jun 09 j 14:34	10°♐22'55	9.03013 AU	
direct	-632 Aug 18 j 18:00	7°♐06'07		
evening set	-632 Nov 26 j 20:54	14°♐05'46		
conjunction	-632 Dec 13 j 11:18	16°♐03'09	0°35'16	
minimum elong	-632 Dec 13 j 11:20	16°♐03'09	0°35'15	
max. Earth dist.	-632 Dec 13 j 00:40	16°♐00'00	10.99380 AU	
morning rise	-632 Dec 30 j 03:15	18°♐01'03		
retrograde	-631 Apr 11 j 10:24	25°♐10'40		
opposition	-631 Jun 21 j 10:29	21°♐50'27	0°26'08	
min. Earth dist.	-631 Jun 21 j 19:22	21°♐48'48	8.95213 AU	
direct	-631 Aug 30 j 12:51	18°♐31'43		
evening set	-631 Dec 08 j 08:14	25°♐34'26		
conjunction	-631 Dec 25 j 00:18	27°♐33'20	0°07'27	
minimum elong	-631 Dec 25 j 00:18	27°♐33'20	0°07'26	
behind sun begin	-631 Dec 24 j 17:54	27°♐31'27		
behind sun end	-631 Dec 25 j 06:42	27°♐35'14		
max. Earth dist.	-631 Dec 24 j 14:35	27°♐30'27	10.90619 AU	
morning rise	-630 Jan 10 j 18:32	29°♐33'00		
	-630 Jan 14 j 15:13	0°♑		
desc. node	-630 Apr 01 j 12:59	6°♑25'57		
retrograde	-630 Apr 23 j 22:35	6°♑50'25		
opposition	-630 Jul 03 j 20:28	3°♑28'53	-0°08'43	
min. Earth dist.	-630 Jul 04 j 04:19	3°♑27'24	8.85518 AU	
direct	-630 Sep 11 j 10:43	0°♑09'45		
evening set	-630 Dec 20 j 01:55	7°♑17'08		
conjunction	-629 Jan 05 j 19:52	9°♑17'55	-0°21'19	
minimum elong	-629 Jan 05 j 19:51	9°♑17'55	0°21'18	
max. Earth dist.	-629 Jan 05 j 10:28	9°♑15'05	10.80128 AU	
morning rise	-629 Jan 22 j 16:52	11°♑19'42		
retrograde	-629 May 06 j 18:58	18°♑46'13		
opposition	-629 Jul 16 j 12:03	15°♑23'15	-0°44'02	
min. Earth dist.	-629 Jul 16 j 19:11	15°♑21'54	8.74304 AU	
direct	-629 Sep 23 j 11:49	12°♑03'32		
evening set	-628 Jan 01 j 03:29	19°♑17'06		
conjunction	-628 Jan 17 j 23:39	21°♑20'03	-0°49'40	
minimum elong	-628 Jan 17 j 23:37	21°♑20'02	0°49'40	
max. Earth dist.	-628 Jan 17 j 14:38	21°♑17'17	10.68316 AU	
morning rise	-628 Feb 03 j 23:46	23°♑24'13		
	-628 Apr 13 j 15:44	0°♒		
retrograde	-628 May 18 j 22:23	1°♒00'55		
	-628 Jun 23 j 17:02	30°℞♑		
opposition	-628 Jul 28 j 09:47	27°♑36'28	-1°18'22	
min. Earth dist.	-628 Jul 28 j 16:17	27°♑35'13	8.62024 AU	
direct	-628 Oct 04 j 19:36	24°♑15'58		
	-628 Dec 29 j 22:48	0°♒		
evening set	-627 Jan 12 j 14:35	1°♒37'08		
conjunction	-627 Jan 29 j 13:23	3°♒42'30	-1°16'27	
minimum elong	-627 Jan 29 j 13:20	3°♒42'29	1°16'28	
max. Earth dist.	-627 Jan 29 j 06:12	3°♒40'16	10.55672 AU	
morning rise	-627 Feb 15 j 16:38	5°♒49'15		
retrograde	-627 Jun 01 j 10:41	13°♒36'47		
opposition	-627 Aug 10 j 14:01	10°♒10'52	-1°50'02	
min. Earth dist.	-627 Aug 10 j 18:55	10°♒09'55	8.49215 AU	
direct	-627 Oct 17 j 11:16	6°♒49'25		
evening set	-626 Jan 25 j 12:17	14°♒19'18		
	-626 Jan 30 j 23:43	15°♒		

conjunction	-626 Feb 11 j 14:08	16°♒27'17	-1°40'13	
minimum elong	-626 Feb 11 j 14:06	16°♒27'16	1°40'14	
max. Earth dist.	-626 Feb 11 j 09:40	16°♒25'53	10.42781 AU	
morning rise	-626 Feb 28 j 20:39	18°♒36'46		
retrograde	-626 Jun 15 j 09:27	26°♒35'16		
opposition	-626 Aug 24 j 01:19	23°♒07'57	-2°17'10	
min. Earth dist.	-626 Aug 24 j 03:47	23°♒07'28	8.36496 AU	
direct	-626 Oct 30 j 09:02	19°♒45'28		
evening set	-625 Feb 07 j 21:23	27°♒24'45		
conjunction	-625 Feb 25 j 02:38	29°♒35'27	-1°59'27	
minimum elong	-625 Feb 25 j 02:35	29°♒35'26	1°59'28	
max. Earth dist.	-625 Feb 25 j 01:00	29°♒34'56	10.30299 AU	
	-625 Feb 28 j 07:40	0°♓		
morning rise	-625 Mar 14 j 12:39	1°♓47'44		
retrograde	-625 Jun 29 j 16:06	9°♓56'34		
opposition	-625 Sep 06 j 19:22	6°♓28'01	-2°37'51	
min. Earth dist.	-625 Sep 06 j 19:20	6°♓28'01	8.24528 AU	
direct	-625 Nov 12 j 15:13	3°♓04'23		
evening set	-624 Feb 21 j 18:20	10°♓53'20		
conjunction	-624 Mar 10 j 03:18	13°♓06'46	-2°12'40	
minimum elong	-624 Mar 10 j 03:17	13°♓06'45	2°12'41	
max. Earth dist.	-624 Mar 10 j 03:55	13°♓06'58	10.18905 AU	
morning rise	-624 Mar 27 j 17:05	15°♓21'46		
retrograde	-624 Jul 13 j 05:14	23°♓39'27		
opposition	-624 Sep 19 j 19:25	20°♓09'55	-2°50'14	
min. Earth dist.	-624 Sep 19 j 17:27	20°♓10'19	8.13975 AU	
direct	-624 Nov 25 j 06:06	16°♓45'06		
evening set	-623 Mar 07 j 02:20	24°♓43'15		
conjunction	-623 Mar 24 j 15:22	26°♓59'19	-2°18'36	
minimum elong	-623 Mar 24 j 15:22	26°♓59'18	2°18'36	
max. Earth dist.	-623 Mar 24 j 18:07	27°♓00'12	10.09259 AU	
morning rise	-623 Apr 11 j 09:02	29°♓16'50		
	-623 Apr 17 j 01:34	0°♈		
retrograde	-623 Jul 27 j 23:15	7°♈41'05		
opposition	-623 Oct 04 j 00:40	4°♈10'53	-2°52'53	
min. Earth dist.	-623 Oct 03 j 21:12	4°♈11'36	8.05451 AU	
direct	-623 Dec 09 j 05:03	0°♈44'52		
evening set	-622 Mar 21 j 19:47	8°♈51'02		
conjunction	-622 Apr 08 j 13:10	11°♈09'28	-2°16'22	
minimum elong	-622 Apr 08 j 13:12	11°♈09'28	2°16'22	
max. Earth dist.	-622 Apr 08 j 18:09	11°♈11'06	10.01927 AU	
morning rise	-622 Apr 26 j 10:38	13°♈29'10		
retrograde	-622 Aug 11 j 20:01	21°♈57'03		
opposition	-622 Oct 18 j 09:25	18°♈26'31	-2°45'00	
min. Earth dist.	-622 Oct 18 j 04:42	18°♈27'30	7.99431 AU	
direct	-622 Dec 23 j 11:23	14°♈59'20		
evening set	-621 Apr 05 j 21:02	23°♈11'53		
conjunction	-621 Apr 23 j 18:44	25°♈32'14	-2°05'42	
minimum elong	-621 Apr 23 j 18:47	25°♈32'15	2°05'42	
max. Earth dist.	-621 Apr 24 j 01:33	25°♈34'28	9.97292 AU	
morning rise	-621 May 11 j 19:35	27°♈53'33		
	-621 May 28 j 15:16	0°♉		
retrograde	-621 Aug 26 j 16:44	6°♉21'50		
opposition	-621 Nov 01 j 19:47	2°♉51'25	-2°26'40	
min. Earth dist.	-621 Nov 01 j 13:59	2°♉52'37	7.96212 AU	
	-621 Dec 12 j 09:12	30°℞♈		
direct	-620 Jan 06 j 23:57	29°♈23'15		
	-620 Feb 01 j 11:27	0°♉		
evening set	-620 Apr 20 j 03:27	7°♉40'10		
conjunction	-620 May 08 j 04:55	10°♉01'48	-1°47'04	
minimum elong	-620 May 08 j 04:59	10°♉01'50	1°47'04	

Attention, astronomical year style is used: The year -620 in astronomical counting style is the year 621 BCE in historical counting style.

max. Earth dist.	-620 May 08 j 13:26	10°♉04'37	9.95602 AU
morning rise	-620 May 26 j 08:14	12°♉24'02	
	-620 Jun 16 j 06:24	15°♉	
retrograde	-620 Sep 09 j 11:02	20°♉49'35	
opposition	-620 Nov 15 j 06:15	17°♉19'40	-1°58'56
min. Earth dist.	-620 Nov 14 j 23:05	17°♉21'09	7.96029 AU
	-620 Dec 15 j 23:43	15°℞♉	
direct	-619 Jan 20 j 16:02	13°♉50'48	
	-619 Feb 25 j 01:01	15°♉	
evening set	-619 May 05 j 11:55	22°♉09'38	
conjunction	-619 May 23 j 16:03	24°♉31'44	-1°21'40
minimum elong	-619 May 23 j 16:07	24°♉31'45	1°21'40
max. Earth dist.	-619 May 24 j 02:21	24°♉35'07	9.97057 AU
morning rise	-619 Jun 10 j 20:34	26°♉53'58	
	-619 Jul 06 j 03:45	0°♊	
retrograde	-619 Sep 24 j 00:52	5°♊13'50	
opposition	-619 Nov 29 j 14:54	1°♊44'46	-1°23'46
min. Earth dist.	-619 Nov 29 j 06:31	1°♊46'30	7.99019 AU
	-619 Dec 21 j 16:08	30°℞♉	
direct	-618 Feb 04 j 09:22	28°♉15'26	
	-618 Mar 20 j 12:53	0°♊	
evening set	-618 May 20 j 19:31	6°♊33'36	
conjunction	-618 Jun 08 j 00:47	8°♊55'13	-0°51'20
minimum elong	-618 Jun 08 j 00:49	8°♊55'14	0°51'20
max. Earth dist.	-618 Jun 08 j 12:07	8°♊58'55	10.01666 AU
morning rise	-618 Jun 26 j 04:57	11°♊16'29	
retrograde	-618 Oct 08 j 08:22	19°♊28'09	
opposition	-618 Dec 13 j 19:50	16°♊00'14	-0°43'49
min. Earth dist.	-618 Dec 13 j 11:06	16°♊02'03	8.05063 AU
direct	-617 Feb 19 j 00:50	12°♊30'42	
evening set	-617 Jun 04 j 23:02	20°♊45'47	
conjunction	-617 Jun 23 j 03:37	23°♊05'56	-0°18'16
minimum elong	-617 Jun 23 j 03:38	23°♊05'57	0°18'16
max. Earth dist.	-617 Jun 23 j 14:59	23°♊09'36	10.09151 AU
morning rise	-617 Jul 11 j 05:46	25°♊25'19	
	-617 Aug 19 j 21:56	0°♋	
retrograde	-617 Oct 22 j 08:50	3°♋27'07	
opposition	-617 Dec 27 j 19:52	0°♋00'35	-0°01'59
min. Earth dist.	-617 Dec 27 j 11:33	0°♋02'17	8.13778 AU
	-617 Dec 27 j 22:42	30°℞♊	
asc. node	-616 Jan 14 j 19:45	28°♊34'50	
direct	-616 Mar 04 j 14:08	26°♊31'08	
	-616 May 08 j 16:41	0°♋	
evening set	-616 Jun 18 j 19:27	4°♋41'01	
conjunction	-616 Jul 06 j 21:32	6°♋58'52	0°15'20
minimum elong	-616 Jul 06 j 21:32	6°♋58'52	0°15'21
behind sun begin	-616 Jul 06 j 19:45	6°♋58'18	
behind sun end	-616 Jul 06 j 23:19	6°♋59'26	
max. Earth dist.	-616 Jul 07 j 08:03	7°♋02'13	10.19022 AU
morning rise	-616 Jul 24 j 20:11	9°♋15'36	
retrograde	-616 Nov 03 j 22:55	17°♋06'43	
opposition	-615 Jan 09 j 13:46	13°♋41'41	0°38'57
min. Earth dist.	-615 Jan 09 j 06:28	13°♋43'09	8.24608 AU
direct	-615 Mar 18 j 23:26	10°♋12'37	
evening set	-615 Jul 03 j 06:40	18°♋15'42	
conjunction	-615 Jul 21 j 04:51	20°♋30'38	0°47'16
minimum elong	-615 Jul 21 j 04:49	20°♋30'37	0°47'17
max. Earth dist.	-615 Jul 21 j 13:33	20°♋33'22	10.30659 AU
morning rise	-615 Aug 07 j 22:55	22°♋44'14	
	-615 Oct 27 j 00:22	0°♌	
retrograde	-615 Nov 17 j 02:48	0°♌24'33	
	-615 Dec 08 j 09:02	30°℞♋	
opposition	-614 Jan 23 j 00:48	27°♋01'02	1°16'36
min. Earth dist.	-614 Jan 22 j 18:26	27°♋02'19	8.36888 AU
direct	-614 Apr 02 j 02:35	23°♋32'38	
	-614 Jul 05 j 01:33	0°♌	
evening set	-614 Jul 17 j 07:13	1°♌27'50	
conjunction	-614 Aug 04 j 00:37	3°♌39'30	1°15'56
minimum elong	-614 Aug 04 j 00:33	3°♌39'29	1°15'58
max. Earth dist.	-614 Aug 04 j 07:26	3°♌41'38	10.43370 AU
morning rise	-614 Aug 21 j 13:24	5°♌49'43	
retrograde	-614 Nov 29 j 22:37	13°♌19'45	
opposition	-613 Feb 05 j 05:01	9°♌57'41	1°49'09
min. Earth dist.	-613 Feb 04 j 23:28	9°♌58'47	8.49903 AU
direct	-613 Apr 15 j 21:36	6°♌30'12	
evening set	-613 Jul 30 j 20:25	14°♌16'54	
	-613 Aug 05 j 18:42	15°♌	
conjunction	-613 Aug 17 j 08:32	16°♌25'14	1°40'04
minimum elong	-613 Aug 17 j 08:29	16°♌25'13	1°40'05
max. Earth dist.	-613 Aug 17 j 13:55	16°♌26'54	10.56451 AU
morning rise	-613 Sep 03 j 15:41	18°♌32'03	
retrograde	-613 Dec 12 j 11:23	25°♌52'42	
opposition	-612 Feb 18 j 02:36	22°♌32'00	2°15'25
min. Earth dist.	-612 Feb 17 j 22:08	22°♌32'52	8.62972 AU
direct	-612 Apr 28 j 07:39	19°♌05'36	
evening set	-612 Aug 11 j 22:16	26°♌43'39	
conjunction	-612 Aug 29 j 05:07	28°♌48'48	1°58'51
minimum elong	-612 Aug 29 j 05:04	28°♌48'48	1°58'52
max. Earth dist.	-612 Aug 29 j 09:07	28°♌50'02	10.69267 AU
	-612 Sep 07 j 23:51	0°♍	
morning rise	-612 Sep 15 j 06:50	0°♍52'27	
retrograde	-612 Dec 23 j 16:18	8°♍04'53	
opposition	-611 Mar 01 j 18:05	4°♍45'24	2°34'42
min. Earth dist.	-611 Mar 01 j 15:35	4°♍45'53	8.75487 AU
direct	-611 May 11 j 10:03	1°♍20'13	
evening set	-611 Aug 24 j 13:18	8°♍49'53	
conjunction	-611 Sep 10 j 15:09	10°♍52'08	2°11'52
minimum elong	-611 Sep 10 j 15:06	10°♍52'07	2°11'52
max. Earth dist.	-611 Sep 10 j 16:54	10°♍52'40	10.81246 AU
morning rise	-611 Sep 27 j 12:10	12°♍53'00	
retrograde	-610 Jan 04 j 15:47	19°♍58'32	
opposition	-610 Mar 14 j 04:09	16°♍40'08	2°46'45
min. Earth dist.	-610 Mar 14 j 03:59	16°♍40'10	8.86903 AU
direct	-610 May 24 j 04:43	13°♍16'12	
evening set	-610 Sep 05 j 18:42	20°♍38'04	
conjunction	-610 Sep 22 j 16:05	22°♍37'51	2°18'58
minimum elong	-610 Sep 22 j 16:04	22°♍37'51	2°18'57
max. Earth dist.	-610 Sep 22 j 14:53	22°♍37'30	10.91896 AU
morning rise	-610 Oct 09 j 09:18	24°♍36'23	
	-610 Dec 03 j 08:58	0°♎	
retrograde	-609 Jan 16 j 08:48	1°♎36'29	
	-609 Mar 02 j 20:15	30°℞♍	
opposition	-609 Mar 26 j 09:36	28°♍18'56	2°51'36
min. Earth dist.	-609 Mar 26 j 11:09	28°♍18'39	8.96761 AU
direct	-609 Jun 05 j 16:40	24°♍56'17	
	-609 Aug 29 j 00:03	0°♎	
evening set	-609 Sep 17 j 15:34	2°♎11'10	
conjunction	-609 Oct 04 j 09:26	4°♎08'57	2°20'16
minimum elong	-609 Oct 04 j 09:26	4°♎08'57	2°20'15
max. Earth dist.	-609 Oct 04 j 06:15	4°♎08'01	11.00814 AU
morning rise	-609 Oct 20 j 23:42	6°♎05'42	
retrograde	-608 Jan 28 j 00:43	13°♎01'55	
opposition	-608 Apr 06 j 11:35	9°♎44'58	2°49'31

Attention, astronomical year style is used: The year -608 in astronomical counting style is the year 609 BCE in historical counting style.

min. Earth dist.	-608 Apr 06 j 14:01	9°♎44'30	9.04692 AU
direct	-608 Jun 16 j 23:40	6°♎23'33	
evening set	-608 Sep 28 j 05:18	13°♎32'22	
conjunction	-608 Oct 14 j 20:40	15°♎28'42	2°16'00
minimum elong	-608 Oct 14 j 20:41	15°♎28'43	2°15'59
max. Earth dist.	-608 Oct 14 j 16:40	15°♎27'32	11.07668 AU
morning rise	-608 Oct 31 j 08:51	17°♎24'12	
retrograde	-607 Feb 07 j 15:28	24°♎18'02	
opposition	-607 Apr 18 j 11:04	21°♎01'26	2°40'55
min. Earth dist.	-607 Apr 18 j 15:01	21°♎00'42	9.10410 AU
direct	-607 Jun 28 j 23:19	17°♎41'10	
evening set	-607 Oct 09 j 13:59	24°♎45'03	
conjunction	-607 Oct 26 j 03:32	26°♎40'28	2°06'32
minimum elong	-607 Oct 26 j 03:34	26°♎40'29	2°06'32
max. Earth dist.	-607 Oct 25 j 21:46	26°♎38'47	11.12216 AU
morning rise	-607 Nov 11 j 14:40	28°♎35'16	
	-607 Nov 24 j 05:27	0°♏	
retrograde	-606 Feb 19 j 04:12	5°♏28'14	
opposition	-606 Apr 30 j 09:05	2°♏11'45	2°26'20
min. Earth dist.	-606 Apr 30 j 15:06	2°♏10'39	9.13724 AU
	-606 Jun 02 j 02:33	30°℞♎	
direct	-606 Jul 10 j 19:33	28°♎52'24	
	-606 Aug 17 j 17:41	0°♏	
evening set	-606 Oct 20 j 19:09	5°♏52'41	
conjunction	-606 Nov 06 j 07:36	7°♏47'40	1°52'20
minimum elong	-606 Nov 06 j 07:38	7°♏47'40	1°52'20
max. Earth dist.	-606 Nov 05 j 23:38	7°♏45'20	11.14315 AU
morning rise	-606 Nov 22 j 18:42	9°♏42'16	
	-605 Jan 16 j 21:26	15°♏	
retrograde	-605 Mar 02 j 18:22	16°♏35'59	
	-605 Apr 18 j 05:09	15°℞♏	
opposition	-605 May 12 j 06:59	13°♏19'19	2°06'21
min. Earth dist.	-605 May 12 j 14:25	13°♏17'58	9.14535 AU
direct	-605 Jul 22 j 14:03	10°♏00'43	
	-605 Oct 14 j 00:29	15°♏	
evening set	-605 Oct 31 j 22:16	16°♏58'40	
conjunction	-605 Nov 17 j 10:32	18°♏53'42	1°33'56
minimum elong	-605 Nov 17 j 10:34	18°♏53'43	1°33'55
max. Earth dist.	-605 Nov 17 j 01:45	18°♏51'08	11.13897 AU
morning rise	-605 Dec 03 j 22:16	20°♏48'38	
retrograde	-604 Mar 13 j 10:38	27°♏44'42	
opposition	-604 May 23 j 05:33	24°♏27'32	1°41'36
min. Earth dist.	-604 May 23 j 13:11	24°♏26'08	9.12808 AU
direct	-604 Aug 02 j 06:52	21°♏09'26	
evening set	-604 Nov 11 j 01:29	28°♏06'32	
conjunction	-604 Nov 27 j 14:17	0°♐02'05	1°11'55
minimum elong	-604 Nov 27 j 14:19	0°♐02'06	1°11'54
max. Earth dist.	-604 Nov 27 j 05:26	29°♏59'30	11.10952 AU
	-604 Nov 27 j 07:09	0°♐	
morning rise	-604 Dec 14 j 03:10	1°♐57'46	
retrograde	-603 Mar 25 j 08:56	8°♐57'44	
opposition	-603 Jun 04 j 05:45	5°♐39'50	1°12'52
min. Earth dist.	-603 Jun 04 j 13:41	5°♐38'22	9.08579 AU
direct	-603 Aug 13 j 23:34	2°♐21'58	
evening set	-603 Nov 22 j 06:32	9°♐19'44	
conjunction	-603 Dec 08 j 20:14	11°♐16'14	0°46'59
minimum elong	-603 Dec 08 j 20:15	11°♐16'14	0°46'58
max. Earth dist.	-603 Dec 08 j 10:26	11°♐13'20	11.05551 AU
morning rise	-603 Dec 25 j 10:56	13°♐13'06	
retrograde	-602 Apr 06 j 09:45	20°♐18'31	
opposition	-602 Jun 16 j 09:05	16°♐59'37	0°40'59

min. Earth dist.	-602 Jun 16 j 17:53	16°♐57'59	9.01955 AU
direct	-602 Aug 25 j 15:20	13°♐41'43	
evening set	-602 Dec 03 j 15:05	20°♐41'44	
conjunction	-602 Dec 20 j 06:02	22°♐39'33	0°19'54
minimum elong	-602 Dec 20 j 06:03	22°♐39'33	0°19'54
max. Earth dist.	-602 Dec 19 j 19:02	22°♐36'17	10.97825 AU
morning rise	-601 Jan 05 j 23:06	24°♐38'01	
	-601 Mar 01 j 05:45	0°♑	
retrograde	-601 Apr 18 j 16:43	1°♑50'31	
	-601 Jun 07 j 19:46	30°℞♐	
opposition	-601 Jun 28 j 16:24	28°♐30'22	0°06'54
min. Earth dist.	-601 Jun 29 j 01:51	28°♐28'36	8.93105 AU
direct	-601 Sep 06 j 11:51	25°♐12'08	
desc. node	-601 Sep 11 j 07:45	25°♐13'20	
	-601 Nov 25 j 02:36	0°♑	
evening set	-601 Dec 15 j 05:00	2°♑16'05	
conjunction	-601 Dec 31 j 21:49	4°♑15'38	-0°08'31
minimum elong	-601 Dec 31 j 21:49	4°♑15'38	0°08'30
behind sun begin	-601 Dec 31 j 15:40	4°♑13'49	
behind sun end	-600 Jan 01 j 03:58	4°♑17'28	
max. Earth dist.	-601 Dec 31 j 11:06	4°♑12'26	10.87979 AU
morning rise	-600 Jan 17 j 17:28	6°♑16'05	
retrograde	-600 Apr 30 j 08:30	13°♑37'08	
opposition	-600 Jul 10 j 04:29	10°♑15'33	-0°28'14
min. Earth dist.	-600 Jul 10 j 13:22	10°♑13'53	8.82313 AU
direct	-600 Sep 17 j 11:31	6°♑56'46	
evening set	-600 Dec 26 j 02:06	14°♑06'19	
conjunction	-599 Jan 11 j 21:11	16°♑07'56	-0°37'03
minimum elong	-599 Jan 11 j 21:10	16°♑07'56	0°37'03
max. Earth dist.	-599 Jan 11 j 11:35	16°♑05'01	10.76381 AU
morning rise	-599 Jan 28 j 19:36	18°♑10'39	
retrograde	-599 May 13 j 07:49	25°♑41'33	
opposition	-599 Jul 22 j 22:30	22°♑18'23	-1°03'04
min. Earth dist.	-599 Jul 23 j 05:57	22°♑16'58	8.70037 AU
direct	-599 Sep 29 j 15:55	18°♑58'48	
evening set	-598 Jan 07 j 08:00	26°♑15'25	
conjunction	-598 Jan 24 j 05:29	28°♑19'23	-1°04'38
minimum elong	-598 Jan 24 j 05:26	28°♑19'22	1°04'38
max. Earth dist.	-598 Jan 23 j 20:47	28°♑16'43	10.63561 AU
	-598 Feb 06 j 21:31	0°♒	
morning rise	-598 Feb 10 j 06:57	0°♒24'39	
retrograde	-598 May 26 j 16:36	8°♒06'16	
opposition	-598 Aug 04 j 23:09	4°♒41'27	-1°36'04
min. Earth dist.	-598 Aug 05 j 05:12	4°♒40'17	8.56860 AU
direct	-598 Oct 12 j 02:39	1°♒20'49	
evening set	-597 Jan 20 j 00:07	8°♒45'46	
conjunction	-597 Feb 06 j 00:18	10°♒52'18	-1°29'53
minimum elong	-597 Feb 06 j 00:15	10°♒52'17	1°29'54
max. Earth dist.	-597 Feb 05 j 16:35	10°♒49'53	10.50141 AU
morning rise	-597 Feb 23 j 05:09	13°♒00'18	
	-597 Mar 12 j 00:28	15°♒	
retrograde	-597 Jun 09 j 10:42	20°♒53'01	
opposition	-597 Aug 18 j 06:40	17°♒26'33	-2°05'27
min. Earth dist.	-597 Aug 18 j 11:34	17°♒25'35	8.43424 AU
	-597 Sep 22 j 04:37	15°℞♒	
direct	-597 Oct 24 j 19:45	14°♒04'40	
	-597 Nov 25 j 21:55	15°♒	
evening set	-596 Feb 02 j 03:18	21°♒38'55	
conjunction	-596 Feb 19 j 06:41	23°♒48'11	-1°51'20
minimum elong	-596 Feb 19 j 06:38	23°♒48'10	1°51'21
max. Earth dist.	-596 Feb 19 j 00:54	23°♒46'21	10.36776 AU

Attention, astronomical year style is used: The year -596 in astronomical counting style is the year 597 BCE in historical counting style.

morning rise	-596 Mar 07 j 15:06	25°♒59'01		
	-596 Apr 11 j 14:37	0°♓		
retrograde	-596 Jun 22 j 11:29	4°♓02'35		
opposition	-596 Aug 30 j 21:04	0°♓34'35	-2°29'18	
min. Earth dist.	-596 Aug 31 j 00:23	0°♓33'56	8.30395 AU	
	-596 Sep 07 j 03:53	30°♓℞		
direct	-596 Nov 05 j 22:48	27°♒11'21		
	-595 Jan 01 j 19:00	0°♓		
evening set	-595 Feb 14 j 18:04	4°♓55'25		
conjunction	-595 Mar 04 j 01:07	7°♓07'29	-2°07'28	
minimum elong	-595 Mar 04 j 01:05	7°♓07'28	2°07'29	
max. Earth dist.	-595 Mar 03 j 22:19	7°♓06'36	10.24150 AU	
morning rise	-595 Mar 21 j 13:07	9°♓21'09		
retrograde	-595 Jul 06 j 19:52	17°♓34'36		
opposition	-595 Sep 13 j 17:55	14°♓05'16	-2°45'44	
min. Earth dist.	-595 Sep 13 j 18:59	14°♓05'03	8.18458 AU	
direct	-595 Nov 19 j 10:23	10°♓40'39		
evening set	-594 Feb 28 j 20:18	18°♓34'26		
conjunction	-594 Mar 18 j 07:27	20°♓49'17	-2°16'54	
minimum elong	-594 Mar 18 j 07:26	20°♓49'17	2°16'54	
max. Earth dist.	-594 Mar 18 j 08:07	20°♓49'30	10.12968 AU	
morning rise	-594 Apr 04 j 23:13	23°♓05'41		
	-594 Jun 10 j 12:08	0°♈		
retrograde	-594 Jul 21 j 11:28	1°♈27'12		
	-594 Aug 31 j 22:04	30°♓℞		
opposition	-594 Sep 27 j 20:33	27°♓56'49	-2°53'03	
min. Earth dist.	-594 Sep 27 j 18:51	27°♓57'10	8.08295 AU	
direct	-594 Dec 03 j 05:07	24°♓30'52		
	-593 Feb 22 j 14:55	0°♈		
evening set	-593 Mar 15 j 09:08	2°♈33'34		
conjunction	-593 Apr 02 j 00:41	4°♈51'03	-2°18'31	
minimum elong	-593 Apr 02 j 00:42	4°♈51'03	2°18'31	
max. Earth dist.	-593 Apr 02 j 04:21	4°♈52'15	10.03898 AU	
morning rise	-593 Apr 19 j 20:19	7°♈09'54		
retrograde	-593 Aug 05 j 08:00	15°♈36'51		
opposition	-593 Oct 12 j 03:42	12°♈05'50	-2°50'07	
min. Earth dist.	-593 Oct 11 j 23:40	12°♈06'40	8.00514 AU	
direct	-593 Dec 17 j 06:49	8°♈38'36		
evening set	-592 Mar 29 j 07:06	16°♈48'52		
conjunction	-592 Apr 16 j 03:00	19°♈08'34	-2°11'45	
minimum elong	-592 Apr 16 j 03:02	19°♈08'35	2°11'44	
max. Earth dist.	-592 Apr 16 j 09:11	19°♈10'36	9.97502 AU	
morning rise	-592 May 04 j 02:14	21°♈29'24		
retrograde	-592 Aug 19 j 06:06	29°♈58'34		
opposition	-592 Oct 25 j 13:38	26°♈27'22	-2°36'33	
min. Earth dist.	-592 Oct 25 j 07:53	26°♈28'34	7.95614 AU	
direct	-592 Dec 30 j 16:22	22°♈59'01		
	-591 Apr 03 j 16:16	0°♉		
evening set	-591 Apr 13 j 11:36	1°♉14'49		
conjunction	-591 May 01 j 11:29	3°♉36'10	-1°56'41	
minimum elong	-591 May 01 j 11:32	3°♉36'12	1°56'40	
max. Earth dist.	-591 May 01 j 19:40	3°♉38'52	9.94213 AU	
morning rise	-591 May 19 j 13:45	5°♉58'18		
retrograde	-591 Sep 03 j 02:13	14°♉26'15		
opposition	-591 Nov 09 j 00:41	10°♉55'21	-2°12'56	
min. Earth dist.	-591 Nov 08 j 17:45	10°♉56'48	7.93940 AU	
direct	-590 Jan 14 j 07:01	7°♉26'08		
	-590 Apr 22 j 22:52	15°♉		
evening set	-590 Apr 28 j 19:38	15°♉44'59		
conjunction	-590 May 16 j 22:42	18°♉07'12	-1°34'12	
minimum elong	-590 May 16 j 22:45	18°♉07'13	1°34'11	
max. Earth dist.	-590 May 17 j 08:18	18°♉10'21	9.94262 AU	
morning rise	-590 Jun 04 j 02:59	20°♉29'46		
retrograde	-590 Sep 17 j 18:32	28°♉53'14		
opposition	-590 Nov 23 j 10:43	25°♉23'04	-1°40'52	
min. Earth dist.	-590 Nov 23 j 03:03	25°♉24'40	7.95614 AU	
direct	-589 Jan 29 j 00:23	21°♉53'16		
	-589 May 12 j 13:01	0°♊		
evening set	-589 May 14 j 04:22	0°♊12'35		
conjunction	-589 Jun 01 j 09:15	2°♊34'44	-1°05'51	
minimum elong	-589 Jun 01 j 09:18	2°♊34'45	1°05'51	
max. Earth dist.	-589 Jun 01 j 19:48	2°♊38'11	9.97641 AU	
morning rise	-589 Jun 19 j 14:01	4°♊56'46		
retrograde	-589 Oct 02 j 05:02	13°♊12'58		
opposition	-589 Dec 07 j 17:46	9°♊43'56	-1°02'43	
min. Earth dist.	-589 Dec 07 j 09:19	9°♊45'41	8.00528 AU	
direct	-588 Feb 12 j 17:46	6°♊13'55		
evening set	-588 May 28 j 10:18	14°♊31'10		
conjunction	-588 Jun 15 j 15:22	16°♊52'16	-0°33'43	
minimum elong	-588 Jun 15 j 15:24	16°♊52'16	0°33'43	
max. Earth dist.	-588 Jun 16 j 02:35	16°♊55'54	10.04123 AU	
morning rise	-588 Jul 03 j 18:54	19°♊12'48		
retrograde	-588 Oct 15 j 08:41	27°♊19'45		
opposition	-588 Dec 20 j 20:28	23°♊52'09	-0°21'19	
min. Earth dist.	-588 Dec 20 j 11:22	23°♊54'02	8.08366 AU	
direct	-587 Feb 26 j 09:22	20°♊22'17		
evening set	-587 Jun 12 j 10:19	28°♊35'12		
	-587 Jun 23 j 12:51	0°♋		
conjunction	-587 Jun 30 j 13:51	0°♋54'20	-0°00'04	
minimum elong	-587 Jun 30 j 13:51	0°♋54'20	0°00'04	
behind sun begin	-587 Jun 30 j 07:06	0°♋52'12		
behind sun end	-587 Jun 30 j 20:36	0°♋56'29		
max. Earth dist.	-587 Jul 01 j 01:20	0°♋58'01	10.13281 AU	
asc. node	-587 Jul 01 j 07:32	1°♋00'01		
morning rise	-587 Jul 18 j 14:30	3°♋12'32		
retrograde	-587 Oct 29 j 03:34	11°♋09'06		
opposition	-586 Jan 03 j 17:30	7°♋43'08	0°20'24	
min. Earth dist.	-586 Jan 03 j 08:13	7°♋45'01	8.18624 AU	
direct	-586 Mar 12 j 20:50	4°♋13'45		
evening set	-586 Jun 27 j 02:25	12°♋20'32		
conjunction	-586 Jul 15 j 02:47	14°♋37'00	0°32'55	
minimum elong	-586 Jul 15 j 02:46	14°♋36'59	0°32'56	
max. Earth dist.	-586 Jul 15 j 13:56	14°♋40'32	10.24526 AU	
morning rise	-586 Aug 01 j 23:10	16°♋52'13		
retrograde	-586 Nov 11 j 13:36	24°♋37'57		
opposition	-585 Jan 17 j 08:01	21°♋13'43	0°59'52	
min. Earth dist.	-585 Jan 16 j 23:34	21°♋15'25	8.30664 AU	
direct	-585 Mar 27 j 01:54	17°♋45'05		
evening set	-585 Jul 11 j 08:40	25°♋44'27		
conjunction	-585 Jul 29 j 04:34	27°♋57'45	1°03'18	
minimum elong	-585 Jul 29 j 04:32	27°♋57'45	1°03'19	
max. Earth dist.	-585 Jul 29 j 14:31	28°♋00'52	10.37180 AU	
	-585 Aug 14 j 12:29	0°♌		
morning rise	-585 Aug 15 j 19:46	0°♌09'37		
retrograde	-585 Nov 24 j 15:25	7°♌44'46		
opposition	-584 Jan 30 j 16:04	4°♌22'14	1°34'59	
min. Earth dist.	-584 Jan 30 j 09:16	4°♌23'35	8.43787 AU	
direct	-584 Apr 08 j 23:34	0°♌54'36		
evening set	-584 Jul 24 j 03:45	8°♌45'39		
conjunction	-584 Aug 10 j 18:22	10°♌55'35	1°29'40	
minimum elong	-584 Aug 10 j 18:19	10°♌55'34	1°29'40	
max. Earth dist.	-584 Aug 11 j 01:58	10°♌57'57	10.50536 AU	

Attention, astronomical year style is used: The year -584 in astronomical counting style is the year 585 BCE in historical counting style.

morning rise	-584 Aug 28 j 04:03	13°♌04'00	
	-584 Sep 13 j 14:26	15°♌	
retrograde	-584 Dec 06 j 07:44	20°♌29'14	
opposition	-583 Feb 11 j 17:17	17°♌08'18	2°04'15
min. Earth dist.	-583 Feb 11 j 12:18	17°♌09'17	8.57279 AU
	-583 Mar 13 j 06:53	15°℞♌	
direct	-583 Apr 22 j 14:21	13°♌41'49	
	-583 Jun 01 j 14:02	15°♌	
evening set	-583 Aug 06 j 11:30	21°♌24'11	
conjunction	-583 Aug 23 j 20:39	23°♌30'48	1°50'58
minimum elong	-583 Aug 23 j 20:36	23°♌30'47	1°50'58
max. Earth dist.	-583 Aug 24 j 01:26	23°♌32'15	10.63895 AU
morning rise	-583 Sep 10 j 00:57	25°♌35'54	
	-583 Oct 20 j 21:01	0°♍	
retrograde	-583 Dec 18 j 14:49	2°♍52'13	
	-582 Feb 18 j 13:51	30°℞♌	
opposition	-582 Feb 24 j 11:51	29°♌32'42	2°26'45
min. Earth dist.	-582 Feb 24 j 08:27	29°♌33'21	8.70434 AU
direct	-582 May 05 j 22:43	26°♌07'26	
	-582 Jul 16 j 17:33	0°♍	
evening set	-582 Aug 19 j 08:06	3°♍41'11	
conjunction	-582 Sep 05 j 12:06	5°♍44'42	2°06'37
minimum elong	-582 Sep 05 j 12:03	5°♍44'42	2°06'38
max. Earth dist.	-582 Sep 05 j 14:22	5°♍45'24	10.76577 AU
morning rise	-582 Sep 22 j 11:20	7°♍46'48	
retrograde	-582 Dec 30 j 17:49	14°♍55'32	
opposition	-581 Mar 09 j 00:42	11°♍37'09	2°42'04
min. Earth dist.	-581 Mar 08 j 22:46	11°♍37'31	8.82579 AU
direct	-581 May 18 j 21:45	8°♍13'10	
evening set	-581 Aug 31 j 18:12	15°♍38'43	
conjunction	-581 Sep 17 j 17:37	17°♍39'34	2°16'23
minimum elong	-581 Sep 17 j 17:35	17°♍39'34	2°16'23
max. Earth dist.	-581 Sep 17 j 18:07	17°♍39'43	10.87950 AU
morning rise	-581 Oct 04 j 12:24	19°♍39'06	
retrograde	-580 Jan 11 j 15:02	26°♍41'43	
opposition	-580 Mar 20 j 08:40	23°♍24'16	2°50'07
min. Earth dist.	-580 Mar 20 j 09:03	23°♍24'12	8.93139 AU
direct	-580 May 30 j 11:48	20°♍01'33	
evening set	-580 Sep 11 j 19:18	27°♍19'43	
conjunction	-580 Sep 28 j 14:48	29°♍18'23	2°20'15
minimum elong	-580 Sep 28 j 14:47	29°♍18'23	2°20'15
max. Earth dist.	-580 Sep 28 j 12:45	29°♍17'47	10.97528 AU
	-580 Oct 04 j 11:20	0°♎	
morning rise	-580 Oct 15 j 06:10	1°♎15'54	
retrograde	-579 Jan 22 j 08:10	8°♎13'58	
opposition	-579 Apr 01 j 12:35	4°♎57'12	2°51'06
min. Earth dist.	-579 Apr 01 j 15:43	4°♎56'37	9.01725 AU
direct	-579 Jun 11 j 21:17	1°♎35'38	
evening set	-579 Sep 23 j 12:47	8°♎47'25	
conjunction	-579 Oct 10 j 05:09	10°♎44'25	2°18'25
minimum elong	-579 Oct 10 j 05:10	10°♎44'25	2°18'25
max. Earth dist.	-579 Oct 09 j 24:00	10°♎42'54	11.05015 AU
morning rise	-579 Oct 26 j 18:14	12°♎40'28	
retrograde	-578 Feb 02 j 22:28	19°♎35'31	
opposition	-578 Apr 13 j 13:35	16°♎19'07	2°45'21
min. Earth dist.	-578 Apr 13 j 18:45	16°♎18'10	9.08089 AU
direct	-578 Jun 24 j 00:44	12°♎58'34	
evening set	-578 Oct 05 j 00:08	20°♎05'00	
conjunction	-578 Oct 21 j 14:20	22°♎00'51	2°11'13
minimum elong	-578 Oct 21 j 14:22	22°♎00'51	2°11'13
max. Earth dist.	-578 Oct 21 j 07:17	21°♎58'47	11.10208 AU

morning rise	-578 Nov 07 j 02:00	23°♎55'59	
	-577 Jan 13 j 18:01	0°♏	
retrograde	-577 Feb 14 j 11:28	0°♏49'36	
	-577 Mar 18 j 22:01	30°℞♎	
opposition	-577 Apr 25 j 12:40	27°♎33'12	2°33'22
min. Earth dist.	-577 Apr 25 j 18:44	27°♎32'05	9.12059 AU
direct	-577 Jul 06 j 00:39	24°♎13'29	
	-577 Oct 05 j 01:04	0°♏	
evening set	-577 Oct 16 j 07:01	1°♏15'43	
conjunction	-577 Nov 01 j 20:02	3°♏10'57	1°59'03
minimum elong	-577 Nov 01 j 20:04	3°♏10'57	1°59'04
max. Earth dist.	-577 Nov 01 j 12:19	3°♏08'41	11.12968 AU
morning rise	-577 Nov 18 j 07:04	5°♏05'41	
retrograde	-576 Feb 26 j 03:04	11°♏59'21	
opposition	-576 May 06 j 10:54	8°♏42'42	2°15'42
min. Earth dist.	-576 May 06 j 17:52	8°♏41'25	9.13540 AU
direct	-576 Jul 16 j 20:31	5°♏23'37	
evening set	-576 Oct 26 j 11:08	12°♏22'54	
conjunction	-576 Nov 11 j 23:39	14°♏18'01	1°42'26
minimum elong	-576 Nov 11 j 23:41	14°♏18'01	1°42'26
max. Earth dist.	-576 Nov 11 j 14:47	14°♏15'25	11.13222 AU
	-576 Nov 17 j 23:17	15°♏	
morning rise	-576 Nov 28 j 10:59	16°♏12'52	
retrograde	-575 Mar 08 j 17:55	23°♏08'09	
opposition	-575 May 18 j 09:20	19°♏50'56	1°52'58
min. Earth dist.	-575 May 18 j 17:53	19°♏49'22	9.12497 AU
direct	-575 Jul 28 j 12:57	16°♏32'16	
evening set	-575 Nov 06 j 14:28	23°♏30'05	
conjunction	-575 Nov 23 j 02:58	25°♏25'30	1°21'56
minimum elong	-575 Nov 23 j 03:00	25°♏25'31	1°21'55
max. Earth dist.	-575 Nov 22 j 16:20	25°♏22'23	11.10976 AU
morning rise	-575 Dec 09 j 15:25	27°♏20'57	
	-574 Jan 02 j 22:48	0°♐	
retrograde	-574 Mar 20 j 12:21	4°♐19'28	
opposition	-574 May 30 j 09:00	1°♐01'27	1°25'54
min. Earth dist.	-574 May 30 j 18:32	0°♐59'42	9.08983 AU
	-574 Jun 13 j 12:59	30°℞♏	
direct	-574 Aug 09 j 06:27	27°♏42'57	
	-574 Oct 02 j 09:19	0°♐	
evening set	-574 Nov 17 j 18:37	4°♐40'47	
conjunction	-574 Dec 04 j 07:52	6°♐37'00	0°58'11
minimum elong	-574 Dec 04 j 07:53	6°♐37'00	0°58'10
max. Earth dist.	-574 Dec 03 j 21:01	6°♐33'48	11.06313 AU
morning rise	-574 Dec 20 j 21:54	8°♐33'29	
retrograde	-573 Apr 01 j 11:06	15°♐36'51	
opposition	-573 Jun 11 j 11:07	12°♐17'47	0°55'15
min. Earth dist.	-573 Jun 11 j 20:22	12°♐16'05	9.03122 AU
direct	-573 Aug 20 j 23:36	8°♐59'17	
evening set	-573 Nov 29 j 01:23	15°♐58'42	
conjunction	-573 Dec 15 j 15:58	17°♐56'06	0°31'55
minimum elong	-573 Dec 15 j 15:59	17°♐56'06	0°31'55
max. Earth dist.	-573 Dec 15 j 05:54	17°♐53'07	10.99381 AU
morning rise	-572 Jan 01 j 07:59	19°♐54'01	
retrograde	-572 Apr 12 j 16:46	27°♐03'50	
opposition	-572 Jun 22 j 16:41	23°♐43'33	0°21'58
min. Earth dist.	-572 Jun 23 j 01:08	23°♐41'58	8.95101 AU
direct	-572 Aug 31 j 18:44	20°♐24'50	
evening set	-572 Dec 09 j 12:59	27°♐27'27	
conjunction	-572 Dec 26 j 05:09	29°♐26'26	0°04'02
minimum elong	-572 Dec 26 j 05:08	29°♐26'26	0°04'02
behind sun begin	-572 Dec 25 j 22:14	29°♐24'23	

Attention, astronomical year style is used: The year -572 in astronomical counting style is the year 573 BCE in historical counting style.

behind sun end	-572 Dec 26 j 12:03	29°♐28'28		
max. Earth dist.	-572 Dec 25 j 18:55	29°♐23'23	10.90404 AU	
	-572 Dec 30 j 21:16	0°♑		
morning rise	-571 Jan 11 j 23:35	1°♑26'09		
desc. node	-571 Feb 16 j 16:19	5°♑16'42		
retrograde	-571 Apr 25 j 05:41	8°♑43'50		
opposition	-571 Jul 05 j 02:39	5°♑22'14	-0°12'54	
min. Earth dist.	-571 Jul 05 j 10:57	5°♑20'40	8.85198 AU	
direct	-571 Sep 12 j 15:19	2°♑03'05		
evening set	-571 Dec 21 j 06:57	9°♑10'34		
conjunction	-570 Jan 07 j 00:56	11°♑11'25	-0°24'41	
minimum elong	-570 Jan 07 j 00:56	11°♑11'24	0°24'40	
max. Earth dist.	-570 Jan 06 j 14:40	11°♑08'18	10.79712 AU	
morning rise	-570 Jan 23 j 22:14	13°♑13'17		
retrograde	-570 May 08 j 00:11	20°♑40'12		
opposition	-570 Jul 17 j 18:20	17°♑17'09	-0°48'05	
min. Earth dist.	-570 Jul 18 j 02:15	17°♑15'39	8.73792 AU	
direct	-570 Sep 24 j 17:25	13°♑57'21		
evening set	-569 Jan 02 j 08:49	21°♑11'13		
conjunction	-569 Jan 19 j 05:08	23°♑14'16	-0°52'51	
minimum elong	-569 Jan 19 j 05:06	23°♑14'16	0°52'51	
max. Earth dist.	-569 Jan 18 j 20:06	23°♑11'30	10.67714 AU	
morning rise	-569 Feb 05 j 05:25	25°♑18'33		
	-569 Mar 20 j 21:54	0°♒		
retrograde	-569 May 21 j 04:37	2°♒55'48		
	-569 Jul 24 j 09:48	30°♑℞		
opposition	-569 Jul 30 j 16:14	29°♑31'14	-1°22'06	
min. Earth dist.	-569 Jul 30 j 22:57	29°♑29'57	8.61341 AU	
direct	-569 Oct 07 j 02:29	26°♑10'38		
	-569 Dec 14 j 13:57	0°♒		
evening set	-568 Jan 14 j 20:22	3°♒32'14		
conjunction	-568 Jan 31 j 19:26	5°♒37'44	-1°19'18	
minimum elong	-568 Jan 31 j 19:24	5°♒37'43	1°19'18	
max. Earth dist.	-568 Jan 31 j 12:49	5°♒35'41	10.54908 AU	
morning rise	-568 Feb 17 j 22:48	7°♒44'39		
	-568 May 08 j 04:57	15°♒		
retrograde	-568 Jun 02 j 18:52	15°♒32'51		
	-568 Jun 28 j 13:00	15°℞♒		
opposition	-568 Aug 11 j 20:41	12°♒06'47	-1°53'17	
min. Earth dist.	-568 Aug 12 j 01:11	12°♒05'54	8.48387 AU	
direct	-568 Oct 18 j 16:47	8°♒45'14		
	-567 Jan 16 j 08:49	15°♒		
evening set	-567 Jan 26 j 18:48	16°♒15'42		
conjunction	-567 Feb 12 j 20:53	18°♒23'51	-1°42'35	
minimum elong	-567 Feb 12 j 20:50	18°♒23'50	1°42'35	
max. Earth dist.	-567 Feb 12 j 16:24	18°♒22'26	10.41885 AU	
morning rise	-567 Mar 02 j 03:32	20°♒33'30		
retrograde	-567 Jun 16 j 17:41	28°♒32'44		
opposition	-567 Aug 25 j 08:19	25°♒05'17	-2°19'44	
min. Earth dist.	-567 Aug 25 j 10:35	25°♒04'50	8.35554 AU	
direct	-567 Oct 31 j 14:55	21°♒42'40		
evening set	-566 Feb 09 j 04:40	29°♒22'42		
	-566 Feb 14 j 03:31	0°♓		
conjunction	-566 Feb 26 j 10:03	1°♓33'36	-2°01'11	
minimum elong	-566 Feb 26 j 10:00	1°♓33'35	2°01'11	
max. Earth dist.	-566 Feb 26 j 07:39	1°♓32'50	10.29314 AU	
morning rise	-566 Mar 15 j 20:20	3°♓46'04		
retrograde	-566 Jul 01 j 00:36	11°♓55'40		
opposition	-566 Sep 08 j 02:54	8°♓27'01	-2°39'33	
min. Earth dist.	-566 Sep 08 j 03:10	8°♓26'57	8.23523 AU	
direct	-566 Nov 13 j 21:51	5°♓03'15		
evening set	-565 Feb 23 j 02:23	12°♓53'01		

conjunction	-565 Mar 12 j 11:33	15°♓06'40	-2°13'38	
minimum elong	-565 Mar 12 j 11:31	15°♓06'40	2°13'38	
max. Earth dist.	-565 Mar 12 j 11:16	15°♓06'35	10.17896 AU	
morning rise	-565 Mar 30 j 01:41	17°♓21'55		
retrograde	-565 Jul 15 j 14:30	25°♓40'20		
opposition	-565 Sep 22 j 03:32	22°♓10'44	-2°50'56	
min. Earth dist.	-565 Sep 22 j 02:15	22°♓11'00	8.12979 AU	
direct	-565 Nov 27 j 13:09	18°♓45'46		
evening set	-564 Mar 08 j 11:13	26°♓44'48		
conjunction	-564 Mar 26 j 00:37	29°♓01'06	-2°18'41	
minimum elong	-564 Mar 26 j 00:37	29°♓01'06	2°18'42	
max. Earth dist.	-564 Mar 26 j 03:01	29°♓01'53	10.08300 AU	
	-564 Apr 02 j 13:40	0°♈		
morning rise	-564 Apr 12 j 18:39	1°♈18'54		
retrograde	-564 Jul 29 j 09:07	9°♈43'47		
opposition	-564 Oct 05 j 09:16	6°♈13'32	-2°52'27	
min. Earth dist.	-564 Oct 05 j 06:13	6°♈14'10	8.04547 AU	
direct	-564 Dec 10 j 13:13	2°♈47'23		
evening set	-563 Mar 23 j 05:36	10°♈54'27		
conjunction	-563 Apr 09 j 23:25	13°♈13'06	-2°15'32	
minimum elong	-563 Apr 09 j 23:26	13°♈13'07	2°15'32	
max. Earth dist.	-563 Apr 10 j 04:48	13°♈14'53	10.01106 AU	
morning rise	-563 Apr 27 j 21:10	15°♈33'02		
retrograde	-563 Aug 13 j 05:49	24°♈01'23		
opposition	-563 Oct 19 j 18:27	20°♈30'51	-2°43'25	
min. Earth dist.	-563 Oct 19 j 13:24	20°♈31'53	7.98725 AU	
direct	-563 Dec 24 j 21:25	17°♈03'36		
evening set	-562 Apr 07 j 07:33	25°♈16'51		
conjunction	-562 Apr 25 j 05:42	27°♈37'24	-2°03'58	
minimum elong	-562 Apr 25 j 05:45	27°♈37'25	2°03'58	
max. Earth dist.	-562 Apr 25 j 13:35	27°♈39'59	9.96733 AU	
morning rise	-562 May 13 j 06:42	29°♈58'52		
	-562 May 13 j 10:13	0°♉		
retrograde	-562 Aug 28 j 01:59	8°♉27'20		
opposition	-562 Nov 03 j 05:08	4°♉56'53	-2°23'59	
min. Earth dist.	-562 Nov 02 j 22:30	4°♉58'16	7.95814 AU	
direct	-561 Jan 08 j 09:59	1°♉28'41		
evening set	-561 Apr 22 j 14:25	9°♉45'59		
conjunction	-561 May 10 j 16:16	12°♉07'45	-1°44'31	
minimum elong	-561 May 10 j 16:20	12°♉07'47	1°44'31	
max. Earth dist.	-561 May 11 j 01:51	12°♉10'55	9.95367 AU	
morning rise	-561 May 28 j 19:41	14°♉30'03		
	-561 Jun 01 j 17:10	15°♉		
retrograde	-561 Sep 11 j 20:37	22°♉55'26		
opposition	-561 Nov 17 j 15:41	19°♉25'32	-1°55'19	
min. Earth dist.	-561 Nov 17 j 07:54	19°♉27'09	7.95931 AU	
direct	-560 Jan 23 j 01:20	15°♉56'37		
evening set	-560 May 06 j 23:15	24°♉15'38		
conjunction	-560 May 25 j 03:34	26°♉37'48	-1°18'29	
minimum elong	-560 May 25 j 03:38	26°♉37'49	1°18'28	
max. Earth dist.	-560 May 25 j 14:19	26°♉41'20	9.97088 AU	
morning rise	-560 Jun 12 j 08:04	29°♉00'02		
	-560 Jun 20 j 05:01	0°♊		
retrograde	-560 Sep 25 j 11:10	7°♊19'31		
opposition	-560 Dec 01 j 00:18	3°♊50'31	-1°19'28	
min. Earth dist.	-560 Nov 30 j 15:58	3°♊52'15	7.99153 AU	
direct	-559 Feb 05 j 18:03	0°♊21'09		
evening set	-559 May 22 j 06:53	8°♊39'23		
conjunction	-559 Jun 09 j 12:06	11°♊00'59	-0°47'42	
minimum elong	-559 Jun 09 j 12:09	11°♊00'59	0°47'42	
max. Earth dist.	-559 Jun 09 j 23:14	11°♊04'36	10.01901 AU	

Attention, astronomical year style is used: The year -559 in astronomical counting style is the year 560 BCE in historical counting style.

morning rise	-559 Jun 27 j 16:10	13°♊22'11		
retrograde	-559 Oct 09 j 19:12	21°♊33'23		
opposition	-559 Dec 15 j 05:15	18°♊05'34	-0°39'08	
min. Earth dist.	-559 Dec 14 j 21:02	18°♊07'16	8.05385 AU	
direct	-558 Feb 20 j 10:29	14°♊36'01		
evening set	-558 Jun 06 j 10:10	22°♊51'03		
conjunction	-558 Jun 24 j 14:32	25°♊11'07	-0°14'27	
minimum elong	-558 Jun 24 j 14:33	25°♊11'07	0°14'26	
behind sun begin	-558 Jun 24 j 11:30	25°♊10'09		
behind sun end	-558 Jun 24 j 17:36	25°♊12'06		
max. Earth dist.	-558 Jun 25 j 01:13	25°♊14'34	10.09556 AU	
morning rise	-558 Jul 12 j 16:33	27°♊30'24		
	-558 Aug 02 j 03:26	0°♋		
retrograde	-558 Oct 23 j 18:09	5°♋31'40		
asc. node	-558 Dec 03 j 22:18	4°♋02'00		
opposition	-558 Dec 29 j 05:09	2°♋05'16	0°02'47	
min. Earth dist.	-558 Dec 28 j 21:23	2°♋06'52	8.14258 AU	
	-557 Jan 25 j 15:06	30℞♊		
direct	-557 Mar 07 j 01:14	28°♊35'50		
	-557 Apr 16 j 05:00	0°♋		
evening set	-557 Jun 21 j 06:24	6°♋45'36		
conjunction	-557 Jul 09 j 08:10	9°♋03'18	0°19'07	
minimum elong	-557 Jul 09 j 08:09	9°♋03'17	0°19'08	
max. Earth dist.	-557 Jul 09 j 17:48	9°♋06'22	10.19566 AU	
morning rise	-557 Jul 27 j 06:36	11°♋19'53		
retrograde	-557 Nov 06 j 06:37	19°♋10'27		
opposition	-556 Jan 11 j 22:49	15°♋45'34	0°43'31	
min. Earth dist.	-556 Jan 11 j 15:35	15°♋47'02	8.25214 AU	
direct	-556 Mar 20 j 10:33	12°♋16'34		
evening set	-556 Jul 04 j 17:13	20°♋19'25		
conjunction	-556 Jul 22 j 15:03	22°♋34'09	0°50'48	
minimum elong	-556 Jul 22 j 15:00	22°♋34'09	0°50'49	
max. Earth dist.	-556 Jul 22 j 23:23	22°♋36'47	10.31316 AU	
morning rise	-556 Aug 09 j 08:44	24°♋47'33		
	-556 Sep 26 j 07:02	0°♌		
retrograde	-556 Nov 18 j 11:15	2°♌27'22		
	-555 Jan 12 j 13:54	30℞♋		
opposition	-555 Jan 24 j 09:45	29°♋03'59	1°20'43	
min. Earth dist.	-555 Jan 24 j 02:48	29°♋05'22	8.37594 AU	
direct	-555 Apr 03 j 12:31	25°♋35'42		
	-555 Jun 18 j 01:32	0°♌		
evening set	-555 Jul 18 j 17:06	3°♌30'31		
conjunction	-555 Aug 05 j 10:09	5°♌42'00	1°19'02	
minimum elong	-555 Aug 05 j 10:06	5°♌41'59	1°19'03	
max. Earth dist.	-555 Aug 05 j 17:30	5°♌44'17	10.44115 AU	
morning rise	-555 Aug 22 j 22:25	7°♌51'58		
	-555 Nov 11 j 10:18	15°♌		
retrograde	-555 Dec 01 j 07:42	15°♌21'32		
	-555 Dec 21 j 08:09	15℞♌		
opposition	-554 Feb 06 j 13:45	11°♌59'36	1°52'38	
min. Earth dist.	-554 Feb 06 j 07:46	12°♌00'47	8.50682 AU	
direct	-554 Apr 17 j 06:24	8°♌32'14		
	-554 Jul 21 j 04:18	15°♌		
evening set	-554 Aug 01 j 05:44	16°♌18'29		
conjunction	-554 Aug 18 j 17:30	18°♌26'37	1°42'36	
minimum elong	-554 Aug 18 j 17:27	18°♌26'36	1°42'36	
max. Earth dist.	-554 Aug 18 j 23:34	18°♌28'29	10.57256 AU	
morning rise	-554 Sep 05 j 00:06	20°♌33'12		
retrograde	-554 Dec 13 j 19:18	27°♌53'22		
opposition	-553 Feb 19 j 11:03	24°♌32'48	2°18'07	
min. Earth dist.	-553 Feb 19 j 06:51	24°♌33'37	8.63799 AU	
direct	-553 Apr 30 j 16:44	21°♌06'31		
evening set	-553 Aug 14 j 07:00	28°♌44'06		
	-553 Aug 24 j 19:45	0°♍		
conjunction	-553 Aug 31 j 13:23	0°♍49'01	2°00'43	
minimum elong	-553 Aug 31 j 13:20	0°♍49'00	2°00'43	
max. Earth dist.	-553 Aug 31 j 17:22	0°♍50'14	10.70101 AU	
morning rise	-553 Sep 17 j 14:41	2°♍52'27		
retrograde	-553 Dec 26 j 00:06	10°♍04'25		
opposition	-552 Mar 03 j 02:22	6°♍45'04	2°36'32	
min. Earth dist.	-552 Mar 03 j 00:24	6°♍45'26	8.76333 AU	
direct	-552 May 12 j 18:31	3°♍19'59		
evening set	-552 Aug 25 j 21:18	10°♍49'06		
conjunction	-552 Sep 11 j 22:38	12°♍51'09	2°13'00	
minimum elong	-552 Sep 11 j 22:36	12°♍51'08	2°13'00	
max. Earth dist.	-552 Sep 11 j 23:45	12°♍51'29	10.82086 AU	
morning rise	-552 Sep 28 j 19:23	14°♍51'49		
retrograde	-551 Jan 05 j 21:38	21°♍56'55		
opposition	-551 Mar 15 j 12:05	18°♍38'35	2°47'40	
min. Earth dist.	-551 Mar 15 j 11:45	18°♍38'39	8.87742 AU	
direct	-551 May 25 j 13:12	15°♍14'46		
evening set	-551 Sep 07 j 01:53	22°♍36'03		
conjunction	-551 Sep 23 j 22:58	24°♍35'38	2°19'23	
minimum elong	-551 Sep 23 j 22:57	24°♍35'37	2°19'22	
max. Earth dist.	-551 Sep 23 j 21:51	24°♍35'18	10.92720 AU	
morning rise	-551 Oct 10 j 15:57	26°♍34'00		
	-551 Nov 11 j 10:04	0°♎		
retrograde	-550 Jan 17 j 15:48	3°♎33'43		
opposition	-550 Mar 27 j 17:03	0°♎16'12	2°51'38	
min. Earth dist.	-550 Mar 27 j 17:53	0°♎16'03	8.97562 AU	
	-550 Mar 31 j 07:32	30℞♍		
direct	-550 Jun 07 j 01:58	26°♍53'40		
	-550 Aug 10 j 10:26	0°♎		
evening set	-550 Sep 18 j 22:02	4°♎07'54		
conjunction	-550 Oct 05 j 15:47	6°♎05'33	2°19'57	
minimum elong	-550 Oct 05 j 15:47	6°♎05'33	2°19'56	
max. Earth dist.	-550 Oct 05 j 13:27	6°♎04'51	11.01588 AU	
morning rise	-550 Oct 22 j 05:46	8°♎02'08		
retrograde	-549 Jan 29 j 07:40	14°♎57'58		
opposition	-549 Apr 08 j 18:41	11°♎41'03	2°48'42	
min. Earth dist.	-549 Apr 08 j 20:53	11°♎40'38	9.05429 AU	
direct	-549 Jun 19 j 06:05	8°♎19'45		
evening set	-549 Sep 30 j 11:11	15°♎27'55		
conjunction	-549 Oct 17 j 02:23	17°♎24'08	2°15'01	
minimum elong	-549 Oct 17 j 02:24	17°♎24'08	2°15'01	
max. Earth dist.	-549 Oct 16 j 22:36	17°♎23'02	11.08370 AU	
morning rise	-549 Nov 02 j 14:25	19°♎19'31		
retrograde	-548 Feb 09 j 20:39	26°♎13'01		
opposition	-548 Apr 19 j 17:56	22°♎56'27	2°39'19	
min. Earth dist.	-548 Apr 19 j 22:20	22°♎55'38	9.11071 AU	
direct	-548 Jun 30 j 05:50	19°♎36'15		
evening set	-548 Oct 10 j 19:17	26°♎39'33		
conjunction	-548 Oct 27 j 08:39	28°♎34'51	2°04'56	
minimum elong	-548 Oct 27 j 08:41	28°♎34'51	2°04'57	
max. Earth dist.	-548 Oct 27 j 02:22	28°♎33'00	11.12838 AU	
	-548 Nov 08 j 13:05	0°♏		
morning rise	-548 Nov 12 j 19:53	0°♏29'34		
retrograde	-547 Feb 20 j 09:39	7°♏22'15		
opposition	-547 May 01 j 15:33	4°♏05'47	2°24'02	
min. Earth dist.	-547 May 01 j 21:43	4°♏04'39	9.14299 AU	
direct	-547 Jul 12 j 02:20	0°♏46'30		
evening set	-547 Oct 21 j 23:50	7°♏46'12		

Attention, astronomical year style is used: The year -547 in astronomical counting style is the year 548 BCE in historical counting style.

conjunction	-547 Nov 07 j 12:19	9°♏41'07	1°50'12	
minimum elong	-547 Nov 07 j 12:22	9°♏41'08	1°50'12	
max. Earth dist.	-547 Nov 07 j 04:31	9°♏38'50	11.14842 AU	
morning rise	-547 Nov 23 j 23:31	11°♏35'41		
	-547 Dec 26 j 03:18	15°♏		
retrograde	-546 Mar 03 j 22:56	18°♏29'12		
opposition	-546 May 13 j 12:57	15°♏12'29	2°03'26	
min. Earth dist.	-546 May 13 j 19:46	15°♏11'14	9.14999 AU	
	-546 May 16 j 09:17	15°℞♏		
direct	-546 Jul 23 j 20:11	11°♏53'57		
	-546 Sep 26 j 00:58	15°♏		
evening set	-546 Nov 02 j 02:33	18°♏51'26		
conjunction	-546 Nov 18 j 14:58	20°♏46'25	1°31'21	
minimum elong	-546 Nov 18 j 15:00	20°♏46'26	1°31'20	
max. Earth dist.	-546 Nov 18 j 07:02	20°♏44'06	11.14304 AU	
morning rise	-546 Dec 05 j 02:41	22°♏41'18		
retrograde	-545 Mar 15 j 17:11	29°♏37'15		
opposition	-545 May 25 j 11:15	26°♏20'03	1°38'12	
min. Earth dist.	-545 May 25 j 18:23	26°♏18'45	9.13148 AU	
direct	-545 Aug 04 j 13:00	23°♏02'02		
evening set	-545 Nov 13 j 05:31	29°♏58'42		
	-545 Nov 13 j 10:04	0°♐		
conjunction	-545 Nov 29 j 18:22	1°♐54'14	1°08'59	
minimum elong	-545 Nov 29 j 18:24	1°♐54'15	1°08'58	
max. Earth dist.	-545 Nov 29 j 09:28	1°♐51'38	11.11240 AU	
morning rise	-545 Dec 16 j 07:23	3°♐49'55		
retrograde	-544 Mar 26 j 13:25	10°♐49'48		
opposition	-544 Jun 05 j 11:23	7°♐31'53	1°09'06	
min. Earth dist.	-544 Jun 05 j 19:36	7°♐30'22	9.08810 AU	
direct	-544 Aug 15 j 02:51	4°♐14'05		
evening set	-544 Nov 23 j 10:24	11°♐11'31		
conjunction	-544 Dec 10 j 00:06	13°♐08'00	0°43'47	
minimum elong	-544 Dec 10 j 00:07	13°♐08'00	0°43'47	
max. Earth dist.	-544 Dec 09 j 13:48	13°♐04'58	11.05740 AU	
morning rise	-544 Dec 26 j 15:06	15°♐04'54		
retrograde	-543 Apr 07 j 14:05	22°♐10'21		
opposition	-543 Jun 17 j 14:31	18°♐51'24	0°36'59	
min. Earth dist.	-543 Jun 17 j 23:39	18°♐49'43	9.02100 AU	
direct	-543 Aug 26 j 21:05	15°♐33'32		
evening set	-543 Dec 04 j 18:52	22°♐33'20		
conjunction	-543 Dec 21 j 09:59	24°♐31'10	0°16'35	
minimum elong	-543 Dec 21 j 09:59	24°♐31'10	0°16'35	
max. Earth dist.	-543 Dec 20 j 23:27	24°♐28'03	10.97939 AU	
morning rise	-542 Jan 07 j 03:12	26°♐29'39		
	-542 Feb 08 j 14:19	0°♑		
retrograde	-542 Apr 19 j 22:10	3°♑42'13		
opposition	-542 Jun 29 j 21:35	0°♑22'01	0°02'49	
min. Earth dist.	-542 Jun 30 j 06:34	0°♑20'21	8.93191 AU	
	-542 Jul 04 j 20:17	30°℞♐		
desc. node	-542 Jul 30 j 09:49	28°♐16'21		
direct	-542 Sep 07 j 17:09	27°♐03'50		
	-542 Nov 07 j 11:50	0°♑		
evening set	-542 Dec 16 j 08:50	4°♑07'37		
conjunction	-541 Jan 02 j 01:51	6°♑07'10	-0°11'49	
minimum elong	-541 Jan 02 j 01:50	6°♑07'10	0°11'49	
behind sun begin	-541 Jan 01 j 20:53	6°♑05'42		
behind sun end	-541 Jan 02 j 06:48	6°♑08'38		
max. Earth dist.	-541 Jan 01 j 15:59	6°♑04'13	10.88038 AU	
morning rise	-541 Jan 18 j 21:32	8°♑07'37		
retrograde	-541 May 02 j 13:17	15°♑28'48		
opposition	-541 Jul 12 j 09:38	12°♑07'09	-0°32'14	
min. Earth dist.	-541 Jul 12 j 17:47	12°♑05'37	8.82344 AU	
direct	-541 Sep 19 j 15:55	8°♑48'24		
evening set	-541 Dec 28 j 06:07	15°♑57'50		
conjunction	-540 Jan 14 j 01:15	17°♑59'29	-0°40'13	
minimum elong	-540 Jan 14 j 01:14	17°♑59'28	0°40'13	
max. Earth dist.	-540 Jan 13 j 15:35	17°♑56'33	10.76371 AU	
morning rise	-540 Jan 30 j 23:48	20°♑02'13		
retrograde	-540 May 14 j 14:01	27°♑33'17		
opposition	-540 Jul 24 j 03:40	24°♑10'06	-1°06'50	
min. Earth dist.	-540 Jul 24 j 11:05	24°♑08'41	8.69982 AU	
direct	-540 Sep 30 j 20:15	20°♑50'31		
evening set	-539 Jan 08 j 12:23	28°♑07'10		
	-539 Jan 23 j 21:38	0°♒		
conjunction	-539 Jan 25 j 09:52	0°♒11'10	-1°07'32	
minimum elong	-539 Jan 25 j 09:50	0°♒11'09	1°07'32	
max. Earth dist.	-539 Jan 25 j 00:16	0°♒08'12	10.63452 AU	
morning rise	-539 Feb 11 j 11:34	2°♒16'29		
retrograde	-539 May 27 j 22:32	9°♒58'19		
opposition	-539 Aug 06 j 04:16	6°♒33'30	-1°39'25	
min. Earth dist.	-539 Aug 06 j 11:04	6°♒32'11	8.56696 AU	
direct	-539 Oct 13 j 06:15	3°♒12'51		
evening set	-538 Jan 21 j 04:48	10°♒38'01		
conjunction	-538 Feb 07 j 05:06	12°♒44'35	-1°32'22	
minimum elong	-538 Feb 07 j 05:03	12°♒44'34	1°32'23	
max. Earth dist.	-538 Feb 06 j 21:01	12°♒42'04	10.49919 AU	
morning rise	-538 Feb 24 j 10:08	14°♒52'40		
	-538 Feb 25 j 10:11	15°♒		
retrograde	-538 Jun 10 j 15:05	22°♒45'42		
opposition	-538 Aug 19 j 11:56	19°♒19'13	-2°08'12	
min. Earth dist.	-538 Aug 19 j 17:23	19°♒18'09	8.43149 AU	
direct	-538 Oct 26 j 01:12	15°♒57'19		
evening set	-537 Feb 03 j 08:21	23°♒31'54		
conjunction	-537 Feb 20 j 11:58	25°♒41'15	-1°53'16	
minimum elong	-537 Feb 20 j 11:56	25°♒41'14	1°53'17	
max. Earth dist.	-537 Feb 20 j 06:35	25°♒39'33	10.36445 AU	
morning rise	-537 Mar 09 j 20:29	27°♒52'10		
	-537 Mar 27 j 13:44	0°♓		
retrograde	-537 Jun 24 j 16:37	5°♓56'09		
opposition	-537 Sep 02 j 02:31	2°♓28'08	-2°31'18	
min. Earth dist.	-537 Sep 02 j 05:45	2°♓27'29	8.30022 AU	
	-537 Oct 06 j 21:52	30°℞♒		
direct	-537 Nov 08 j 04:35	29°♒04'53		
	-537 Dec 09 j 21:02	0°♓		
evening set	-536 Feb 16 j 23:45	6°♓49'21		
conjunction	-536 Mar 05 j 07:06	9°♓01'33	-2°08'43	
minimum elong	-536 Mar 05 j 07:04	9°♓01'33	2°08'44	
max. Earth dist.	-536 Mar 05 j 04:44	9°♓00'47	10.23733 AU	
morning rise	-536 Mar 22 j 19:13	11°♓15'20		
retrograde	-536 Jul 08 j 03:02	19°♓29'12		
opposition	-536 Sep 14 j 23:31	15°♓59'50	-2°46'49	
min. Earth dist.	-536 Sep 15 j 00:11	15°♓59'42	8.18014 AU	
direct	-536 Nov 20 j 14:47	12°♓35'12		
evening set	-535 Mar 02 j 02:41	20°♓29'28		
conjunction	-535 Mar 19 j 14:06	22°♓44'29	-2°17'22	
minimum elong	-535 Mar 19 j 14:05	22°♓44'28	2°17'22	
max. Earth dist.	-535 Mar 19 j 14:33	22°♓44'38	10.12500 AU	
morning rise	-535 Apr 06 j 06:03	25°♓01'00		
	-535 May 19 j 16:35	0°♈		
retrograde	-535 Jul 22 j 19:35	3°♈22'53		
	-535 Sep 27 j 13:51	30°℞♓		
opposition	-535 Sep 29 j 02:30	29°♓52'31	-2°53'08	
min. Earth dist.	-535 Sep 29 j 00:42	29°♓52'53	8.07817 AU	

Attention, astronomical year style is used: The year -535 in astronomical counting style is the year 536 BCE in historical counting style.

direct	-535 Dec 04 j 09:47	26°♓26'31	
	-534 Feb 06 j 07:48	0°♈	
evening set	-534 Mar 16 j 16:06	4°♈29'46	
conjunction	-534 Apr 03 j 07:51	6°♈47'24	-2°18'08
minimum elong	-534 Apr 03 j 07:52	6°♈47'24	2°18'08
max. Earth dist.	-534 Apr 03 j 10:47	6°♈48'22	10.03423 AU
morning rise	-534 Apr 21 j 03:46	9°♈06'24	
retrograde	-534 Aug 06 j 15:53	17°♈33'39	
opposition	-534 Oct 13 j 10:02	14°♈02'39	-2°49'08
min. Earth dist.	-534 Oct 13 j 06:27	14°♈03'24	8.00051 AU
direct	-534 Dec 18 j 13:11	10°♈35'22	
evening set	-533 Mar 31 j 14:39	18°♈46'10	
conjunction	-533 Apr 18 j 10:47	21°♈06'03	-2°10'31
minimum elong	-533 Apr 18 j 10:50	21°♈06'03	2°10'30
max. Earth dist.	-533 Apr 18 j 15:59	21°♈07'45	9.97072 AU
morning rise	-533 May 06 j 10:24	23°♈27'01	
	-533 Jul 05 j 13:56	0°♉	
retrograde	-533 Aug 21 j 13:10	1°♉56'21	
	-533 Oct 08 j 02:42	30°℞♈	
opposition	-533 Oct 27 j 20:17	28°♈25'13	-2°34'30
min. Earth dist.	-533 Oct 27 j 15:17	28°♈26'15	7.95215 AU
direct	-532 Jan 01 j 23:13	24°♈56'47	
	-532 Mar 19 j 15:02	0°♉	
evening set	-532 Apr 14 j 19:42	3°♉13'05	
conjunction	-532 May 02 j 19:51	5°♉34'36	-1°54'38
minimum elong	-532 May 02 j 19:54	5°♉34'37	1°54'38
max. Earth dist.	-532 May 03 j 03:10	5°♉37'01	9.93865 AU
morning rise	-532 May 20 j 22:27	7°♉56'51	
	-532 Jul 26 j 19:13	15°♉	
retrograde	-532 Sep 04 j 09:18	16°♉24'50	
	-532 Oct 14 j 06:38	15°℞♉	
opposition	-532 Nov 10 j 07:33	12°♉53'59	-2°09'57
min. Earth dist.	-532 Nov 10 j 01:13	12°♉55'19	7.93636 AU
direct	-531 Jan 15 j 14:11	9°♉24'42	
	-531 Apr 08 j 03:07	15°♉	
evening set	-531 Apr 30 j 04:04	17°♉43'57	
conjunction	-531 May 18 j 07:21	20°♉06'17	-1°31'28
minimum elong	-531 May 18 j 07:25	20°♉06'18	1°31'28
max. Earth dist.	-531 May 18 j 16:35	20°♉09'20	9.94020 AU
morning rise	-531 Jun 05 j 11:48	22°♉28'56	
	-531 Aug 19 j 08:20	0°♊	
retrograde	-531 Sep 19 j 01:50	0°♊52'19	
	-531 Oct 19 j 22:17	30°℞♉	
opposition	-531 Nov 24 j 17:43	27°♉22'12	-1°37'07
min. Earth dist.	-531 Nov 24 j 10:02	27°♉23'48	7.95429 AU
direct	-530 Jan 30 j 08:00	23°♉52'21	
	-530 Apr 27 j 21:20	0°♊	
evening set	-530 May 15 j 12:55	2°♊11'56	
conjunction	-530 Jun 02 j 18:00	4°♊34'09	-1°02'37
minimum elong	-530 Jun 02 j 18:03	4°♊34'10	1°02'37
max. Earth dist.	-530 Jun 03 j 04:48	4°♊37'41	9.97527 AU
morning rise	-530 Jun 20 j 22:47	6°♊56'13	
retrograde	-530 Oct 03 j 12:29	15°♊12'13	
opposition	-530 Dec 09 j 00:45	11°♊43'13	-0°58'28
min. Earth dist.	-530 Dec 08 j 15:52	11°♊45'04	8.00475 AU
direct	-529 Feb 14 j 01:50	8°♊13'09	
evening set	-529 May 30 j 18:55	16°♊30'34	
conjunction	-529 Jun 18 j 00:05	18°♊51'39	-0°30'12
minimum elong	-529 Jun 18 j 00:07	18°♊51'40	0°30'12
max. Earth dist.	-529 Jun 18 j 11:53	18°♊55'29	10.04139 AU
morning rise	-529 Jul 06 j 03:26	21°♊12'10	
retrograde	-529 Oct 17 j 15:40	29°♊18'50	
opposition	-529 Dec 23 j 03:25	25°♊51'16	-0°16'51
min. Earth dist.	-529 Dec 22 j 17:59	25°♊53'13	8.08441 AU
direct	-528 Feb 28 j 17:23	22°♊21'22	
asc. node	-528 May 23 j 01:35	27°♊56'23	
	-528 Jun 09 j 05:16	0°♋	
evening set	-528 Jun 13 j 18:54	0°♋34'19	
conjunction	-528 Jul 01 j 22:18	2°♋53'23	0°03'36
minimum elong	-528 Jul 01 j 22:19	2°♋53'24	0°03'37
behind sun begin	-528 Jul 01 j 15:02	2°♋51'05	
behind sun end	-528 Jul 02 j 05:35	2°♋55'42	
max. Earth dist.	-528 Jul 02 j 10:22	2°♋57'15	10.13417 AU
morning rise	-528 Jul 19 j 22:36	5°♋11'29	
retrograde	-528 Oct 30 j 10:40	13°♋07'44	
opposition	-527 Jan 05 j 00:25	9°♋41'48	0°24'49
min. Earth dist.	-527 Jan 04 j 15:15	9°♋43'40	8.18819 AU
direct	-527 Mar 14 j 03:37	6°♋12'23	
evening set	-527 Jun 28 j 10:42	14°♋19'06	
conjunction	-527 Jul 16 j 10:45	16°♋35'27	0°36'22
minimum elong	-527 Jul 16 j 10:43	16°♋35'27	0°36'22
max. Earth dist.	-527 Jul 16 j 22:02	16°♋39'02	10.24778 AU
morning rise	-527 Aug 03 j 06:44	18°♋50'31	
retrograde	-527 Nov 12 j 21:07	26°♋35'55	
opposition	-526 Jan 18 j 14:51	23°♋11'43	1°03'58
min. Earth dist.	-526 Jan 18 j 06:58	23°♋13'18	8.30976 AU
direct	-526 Mar 28 j 08:25	19°♋43'04	
evening set	-526 Jul 12 j 16:31	27°♋42'16	
conjunction	-526 Jul 30 j 11:58	29°♋55'26	1°06'25
minimum elong	-526 Jul 30 j 11:55	29°♋55'25	1°06'26
max. Earth dist.	-526 Jul 30 j 21:20	29°♋58'22	10.37539 AU
	-526 Jul 31 j 02:32	0°♌	
morning rise	-526 Aug 17 j 02:50	2°♌07'08	
retrograde	-526 Nov 25 j 21:20	9°♌41'54	
opposition	-525 Jan 31 j 22:39	6°♌19'26	1°38'33
min. Earth dist.	-525 Jan 31 j 16:10	6°♌20'43	8.44201 AU
direct	-525 Apr 11 j 07:10	2°♌51'48	
evening set	-525 Jul 26 j 11:11	10°♌42'38	
conjunction	-525 Aug 13 j 01:19	12°♌52'23	1°32'17
minimum elong	-525 Aug 13 j 01:15	12°♌52'22	1°32'18
max. Earth dist.	-525 Aug 13 j 08:16	12°♌54'32	10.50987 AU
morning rise	-525 Aug 30 j 10:40	15°♌00'39	
	-525 Aug 30 j 08:31	15°♌	
retrograde	-525 Dec 08 j 12:03	22°♌25'32	
opposition	-524 Feb 13 j 23:38	19°♌04'39	2°07'08
min. Earth dist.	-524 Feb 13 j 18:13	19°♌05'42	8.57776 AU
direct	-524 Apr 23 j 23:11	15°♌38'12	
evening set	-524 Aug 07 j 18:19	23°♌20'16	
conjunction	-524 Aug 25 j 03:05	25°♌26'41	1°53'00
minimum elong	-524 Aug 25 j 03:01	25°♌26'41	1°53'01
max. Earth dist.	-524 Aug 25 j 08:09	25°♌28'14	10.64432 AU
morning rise	-524 Sep 11 j 06:58	27°♌31'37	
	-524 Oct 02 j 20:41	0°♍	
retrograde	-524 Dec 19 j 21:23	4°♍47'38	
opposition	-523 Feb 25 j 18:04	1°♍28'09	2°28'51
min. Earth dist.	-523 Feb 25 j 13:48	1°♍28'58	8.71016 AU
	-523 Mar 17 j 11:03	30°℞♌	
direct	-523 May 07 j 05:08	28°♌02'59	
	-523 Jun 25 j 21:38	0°♍	
evening set	-523 Aug 20 j 14:12	5°♍36'18	
conjunction	-523 Sep 06 j 17:55	7°♍39'40	2°08'00
minimum elong	-523 Sep 06 j 17:53	7°♍39'39	2°08'00

Attention, astronomical year style is used: The year -523 in astronomical counting style is the year 524 BCE in historical counting style.

max. Earth dist.	-523 Sep 06 j 21:21	7°♍40'42	10.77209 AU
morning rise	-523 Sep 23 j 16:44	9°♍41'35	
retrograde	-523 Dec 31 j 23:19	16°♍49'58	
opposition	-522 Mar 10 j 06:43	13°♍31'38	2°43'20
min. Earth dist.	-522 Mar 10 j 04:28	13°♍32'04	8.83267 AU
direct	-522 May 20 j 03:09	10°♍07'46	
evening set	-522 Sep 01 j 23:48	17°♍32'48	
conjunction	-522 Sep 18 j 22:53	19°♍33'28	2°17'05
minimum elong	-522 Sep 18 j 22:52	19°♍33'28	2°17'04
max. Earth dist.	-522 Sep 18 j 23:59	19°♍33'48	10.88698 AU
morning rise	-522 Oct 05 j 17:21	21°♍32'50	
retrograde	-521 Jan 12 j 19:45	28°♍35'01	
opposition	-521 Mar 22 j 14:21	25°♍17'39	2°50'32
min. Earth dist.	-521 Mar 22 j 14:57	25°♍17'32	8.93950 AU
direct	-521 Jun 01 j 18:26	21°♍55'00	
evening set	-521 Sep 14 j 00:15	29°♍12'33	
	-521 Sep 20 j 18:51	0°♎	
conjunction	-521 Sep 30 j 19:23	1°♎11'02	2°20'16
minimum elong	-521 Sep 30 j 19:23	1°♎11'02	2°20'15
max. Earth dist.	-521 Sep 30 j 17:04	1°♎10'21	10.98388 AU
morning rise	-521 Oct 17 j 10:37	3°♎08'23	
retrograde	-520 Jan 24 j 12:01	10°♎05'58	
opposition	-520 Apr 02 j 17:58	6°♎49'16	2°50'40
min. Earth dist.	-520 Apr 02 j 20:57	6°♎48'42	9.02620 AU
direct	-520 Jun 13 j 02:36	3°♎27'48	
evening set	-520 Sep 24 j 16:54	10°♎38'52	
conjunction	-520 Oct 11 j 09:04	12°♎35'42	2°17'46
minimum elong	-520 Oct 11 j 09:05	12°♎35'42	2°17'46
max. Earth dist.	-520 Oct 11 j 04:07	12°♎34'14	11.05928 AU
morning rise	-520 Oct 27 j 22:04	14°♎31'37	
retrograde	-519 Feb 04 j 01:43	21°♎26'14	
opposition	-519 Apr 14 j 18:30	18°♎09'52	2°44'09
min. Earth dist.	-519 Apr 14 j 22:48	18°♎09'04	9.08998 AU
direct	-519 Jun 25 j 06:42	14°♎49'26	
evening set	-519 Oct 06 j 03:37	21°♎55'09	
conjunction	-519 Oct 22 j 17:49	23°♎50'52	2°09'57
minimum elong	-519 Oct 22 j 17:51	23°♎50'53	2°09'57
max. Earth dist.	-519 Oct 22 j 11:45	23°♎49'06	11.11105 AU
morning rise	-519 Nov 08 j 05:20	25°♎45'53	
	-519 Dec 19 j 11:26	0°♏	
retrograde	-518 Feb 15 j 16:38	2°♏39'04	
	-518 Apr 18 j 05:12	30°℞♎	
opposition	-518 Apr 26 j 17:06	29°♎22'45	2°31'28
min. Earth dist.	-518 Apr 26 j 22:41	29°♎21'43	9.12924 AU
direct	-518 Jul 07 j 05:32	26°♎03'11	
	-518 Sep 18 j 16:31	0°♏	
evening set	-518 Oct 17 j 10:04	3°♏04'43	
conjunction	-518 Nov 02 j 23:03	4°♏59'51	1°57'15
minimum elong	-518 Nov 02 j 23:05	4°♏59'52	1°57'15
max. Earth dist.	-518 Nov 02 j 15:33	4°♏57'39	11.13800 AU
morning rise	-518 Nov 19 j 10:03	6°♏54'30	
retrograde	-517 Feb 27 j 05:43	13°♏47'48	
opposition	-517 May 08 j 15:07	10°♏31'12	2°13'11
min. Earth dist.	-517 May 08 j 22:27	10°♏29'52	9.14323 AU
direct	-517 Jul 18 j 23:14	7°♏12'16	
evening set	-517 Oct 28 j 13:48	14°♏10'57	
	-517 Nov 04 j 16:00	15°♏	
conjunction	-517 Nov 14 j 02:12	16°♏05'58	1°40'10
minimum elong	-517 Nov 14 j 02:14	16°♏05'59	1°40'10
max. Earth dist.	-517 Nov 13 j 16:41	16°♏03'11	11.13961 AU
morning rise	-517 Nov 30 j 13:42	18°♏00'46	

retrograde	-516 Mar 09 j 20:53	24°♏55'46	
opposition	-516 May 19 j 13:18	21°♏38'37	1°49'57
min. Earth dist.	-516 May 19 j 22:12	21°♏36'59	9.13174 AU
direct	-516 Jul 29 j 17:27	18°♏20'03	
evening set	-516 Nov 07 j 16:46	25°♏17'21	
conjunction	-516 Nov 24 j 05:20	27°♏12'43	1°19'18
minimum elong	-516 Nov 24 j 05:23	27°♏12'43	1°19'17
max. Earth dist.	-516 Nov 23 j 18:50	27°♏09'38	11.11596 AU
morning rise	-516 Dec 10 j 17:56	29°♏08'08	
	-516 Dec 18 j 09:04	0°♐	
retrograde	-515 Mar 21 j 14:56	6°♐06'26	
opposition	-515 May 31 j 12:32	2°♐48'26	1°22'29
min. Earth dist.	-515 May 31 j 21:40	2°♐46'46	9.09525 AU
	-515 Jul 16 j 06:01	30°℞♏	
direct	-515 Aug 10 j 09:52	29°♏30'03	
	-515 Sep 04 j 04:55	0°♐	
evening set	-515 Nov 18 j 20:40	6°♐27'28	
conjunction	-515 Dec 05 j 10:06	8°♐23'38	0°55'16
minimum elong	-515 Dec 05 j 10:08	8°♐23'39	0°55'15
max. Earth dist.	-515 Dec 04 j 23:54	8°♐20'38	11.06780 AU
morning rise	-515 Dec 22 j 00:11	10°♐20'05	
retrograde	-514 Apr 02 j 15:00	17°♐23'20	
opposition	-514 Jun 12 j 14:23	14°♐04'18	0°51'34
min. Earth dist.	-514 Jun 12 j 23:11	14°♐02'40	9.03500 AU
direct	-514 Aug 22 j 03:10	10°♐45'53	
evening set	-514 Nov 30 j 03:22	17°♐44'58	
conjunction	-514 Dec 16 j 18:00	19°♐42'21	0°28'51
minimum elong	-514 Dec 16 j 18:01	19°♐42'21	0°28'51
max. Earth dist.	-514 Dec 16 j 07:42	19°♐39'18	10.99677 AU
morning rise	-513 Jan 02 j 10:08	21°♐40'16	
retrograde	-513 Apr 14 j 20:25	28°♐50'02	
opposition	-513 Jun 24 j 19:52	25°♐29'46	0°18'09
min. Earth dist.	-513 Jun 25 j 04:40	25°♐28'08	8.95309 AU
direct	-513 Sep 02 j 20:26	22°♐11'06	
evening set	-513 Dec 11 j 14:55	29°♐13'31	
	-513 Dec 18 j 04:27	0°♑	
conjunction	-513 Dec 28 j 07:04	1°♑12'28	0°00'53
minimum elong	-513 Dec 28 j 07:04	1°♑12'28	0°00'53
behind sun begin	-513 Dec 28 j 00:04	1°♑10'24	
behind sun end	-513 Dec 28 j 14:03	1°♑14'32	
max. Earth dist.	-513 Dec 27 j 20:02	1°♑09'11	10.90535 AU
desc. node	-512 Jan 08 j 13:10	2°♑33'07	
morning rise	-512 Jan 14 j 01:46	3°♑12'14	
retrograde	-512 Apr 26 j 07:10	10°♑29'59	
opposition	-512 Jul 06 j 05:46	7°♑08'21	-0°16'42
min. Earth dist.	-512 Jul 06 j 14:50	7°♑06'39	8.85243 AU
direct	-512 Sep 13 j 17:39	3°♑49'11	
evening set	-512 Dec 22 j 08:53	10°♑56'37	
conjunction	-511 Jan 08 j 03:01	12°♑57'29	-0°27'43
minimum elong	-511 Jan 08 j 03:00	12°♑57'29	0°27'43
max. Earth dist.	-511 Jan 07 j 16:40	12°♑54'22	10.79673 AU
morning rise	-511 Jan 25 j 00:29	14°♑59'24	
retrograde	-511 May 09 j 03:18	22°♑26'30	
opposition	-511 Jul 18 j 21:15	19°♑03'24	-0°51'43
min. Earth dist.	-511 Jul 19 j 05:25	19°♑01'51	8.73665 AU
direct	-511 Sep 25 j 20:59	15°♑43'35	
evening set	-510 Jan 03 j 10:53	22°♑57'29	
conjunction	-510 Jan 20 j 07:24	25°♑00'36	-0°55'42
minimum elong	-510 Jan 20 j 07:22	25°♑00'35	0°55'42
max. Earth dist.	-510 Jan 19 j 22:55	24°♑57'59	10.67495 AU
morning rise	-510 Feb 06 j 07:42	27°♑04'55	

Attention, astronomical year style is used: The year -510 in astronomical counting style is the year 511 BCE in historical counting style.

	-510 Mar 03 j 22:09	0°♒		
retrograde	-510 May 22 j 08:18	4°♒42'28		
opposition	-510 Jul 31 j 19:06	1°♒17'49	-1°25'26	
min. Earth dist.	-510 Aug 01 j 01:24	1°♒16'37	8.61041 AU	
	-510 Aug 18 j 02:58	30°℞♑		
direct	-510 Oct 08 j 04:23	27°♑57'11		
	-510 Nov 26 j 04:18	0°♒		
evening set	-509 Jan 15 j 22:45	5°♒18'58		
conjunction	-509 Feb 01 j 21:56	7°♒24'33	-1°21'49	
minimum elong	-509 Feb 01 j 21:53	7°♒24'32	1°21'49	
max. Earth dist.	-509 Feb 01 j 15:13	7°♒22'28	10.54519 AU	
morning rise	-509 Feb 19 j 01:22	9°♒31'31		
	-509 Apr 11 j 22:23	15°♒		
retrograde	-509 Jun 04 j 22:19	17°♒20'07		
	-509 Jul 30 j 14:28	15°℞♒		
opposition	-509 Aug 13 j 23:44	13°♒53'58	-1°56'08	
min. Earth dist.	-509 Aug 14 j 04:04	13°♒53'07	8.47927 AU	
direct	-509 Oct 20 j 19:04	10°♒32'21		
	-508 Jan 02 j 17:45	15°♒		
evening set	-508 Jan 28 j 21:35	18°♒03'08		
conjunction	-508 Feb 14 j 23:43	20°♒11'23	-1°44'38	
minimum elong	-508 Feb 14 j 23:40	20°♒11'22	1°44'39	
max. Earth dist.	-508 Feb 14 j 18:19	20°♒09'42	10.41351 AU	
morning rise	-508 Mar 03 j 06:36	22°♒21'10		
	-508 May 28 j 17:18	0°♓		
retrograde	-508 Jun 17 j 21:42	0°♓20'51		
	-508 Jul 08 j 02:45	30°℞♒		
opposition	-508 Aug 26 j 11:34	26°♒53'18	-2°21'58	
min. Earth dist.	-508 Aug 26 j 14:23	26°♒52'44	8.34956 AU	
direct	-508 Nov 01 j 17:22	23°♒30'34		
	-507 Jan 31 j 16:46	0°♓		
evening set	-507 Feb 10 j 08:00	1°♓11'04		
conjunction	-507 Feb 27 j 13:28	3°♓22'06	-2°02'39	
minimum elong	-507 Feb 27 j 13:25	3°♓22'05	2°02'40	
max. Earth dist.	-507 Feb 27 j 10:03	3°♓21'00	10.28657 AU	
morning rise	-507 Mar 17 j 00:01	5°♓34'43		
retrograde	-507 Jul 02 j 05:24	13°♓44'48		
opposition	-507 Sep 09 j 06:20	10°♓16'04	-2°41'00	
min. Earth dist.	-507 Sep 09 j 07:28	10°♓15'50	8.22817 AU	
direct	-507 Nov 15 j 00:15	6°♓52'09		
evening set	-506 Feb 24 j 06:10	14°♓42'31		
conjunction	-506 Mar 13 j 15:33	16°♓56'20	-2°14'25	
minimum elong	-506 Mar 13 j 15:32	16°♓56'20	2°14'26	
max. Earth dist.	-506 Mar 13 j 14:55	16°♓56'08	10.17153 AU	
morning rise	-506 Mar 31 j 05:55	19°♓11'45		
retrograde	-506 Jul 16 j 18:42	27°♓30'42		
opposition	-506 Sep 23 j 07:19	24°♓01'01	-2°51'27	
min. Earth dist.	-506 Sep 23 j 06:29	24°♓01'11	8.12214 AU	
direct	-506 Nov 28 j 17:18	20°♓35'54		
evening set	-505 Mar 10 j 15:33	28°♓35'36		
	-505 Mar 21 j 13:22	0°♈		
conjunction	-505 Mar 28 j 05:18	0°♈52'06	-2°18'42	
minimum elong	-505 Mar 28 j 05:18	0°♈52'06	2°18'42	
max. Earth dist.	-505 Mar 28 j 08:06	0°♈53'01	10.07526 AU	
morning rise	-505 Apr 14 j 23:33	3°♈10'04		
retrograde	-505 Jul 31 j 13:04	11°♈35'29		
opposition	-505 Oct 07 j 13:23	8°♈05'10	-2°51'59	
min. Earth dist.	-505 Oct 07 j 10:07	8°♈05'50	8.03783 AU	
direct	-505 Dec 12 j 18:18	4°♈38'55		
evening set	-504 Mar 24 j 10:44	12°♈46'39		
conjunction	-504 Apr 11 j 04:58	15°♈05'33	-2°14'44	
minimum elong	-504 Apr 11 j 05:00	15°♈05'33	2°14'43	
max. Earth dist.	-504 Apr 11 j 11:01	15°♈07'31	10.00372 AU	
morning rise	-504 Apr 29 j 02:52	17°♈25'38		
retrograde	-504 Aug 14 j 10:11	25°♈54'25		
opposition	-504 Oct 20 j 22:51	22°♈23'51	-2°41'55	
min. Earth dist.	-504 Oct 20 j 17:15	22°♈25'00	7.98045 AU	
direct	-504 Dec 26 j 01:28	18°♈56'31		
evening set	-503 Apr 08 j 13:26	27°♈10'25		
conjunction	-503 Apr 26 j 11:54	29°♈31'10	-2°02'22	
minimum elong	-503 Apr 26 j 11:57	29°♈31'11	2°02'21	
max. Earth dist.	-503 Apr 26 j 20:26	29°♈33'59	9.96139 AU	
	-503 Apr 30 j 03:29	0°♉		
morning rise	-503 May 14 j 13:03	1°♉52'48		
retrograde	-503 Aug 29 j 08:03	10°♉21'31		
opposition	-503 Nov 04 j 10:00	6°♉51'03	-2°21'32	
min. Earth dist.	-503 Nov 04 j 02:50	6°♉52'32	7.95332 AU	
direct	-502 Jan 09 j 13:24	3°♉22'46		
evening set	-502 Apr 23 j 20:45	11°♉40'30		
conjunction	-502 May 11 j 22:48	14°♉02'25	-1°42'13	
minimum elong	-502 May 11 j 22:52	14°♉02'26	1°42'12	
max. Earth dist.	-502 May 12 j 08:46	14°♉05'42	9.95025 AU	
	-502 May 19 j 05:54	15°♉		
morning rise	-502 May 30 j 02:21	16°♉24'49		
retrograde	-502 Sep 13 j 03:43	24°♉50'09		
opposition	-502 Nov 18 j 20:48	21°♉20'14	-1°52'04	
min. Earth dist.	-502 Nov 18 j 13:02	21°♉21'51	7.95719 AU	
direct	-501 Jan 24 j 05:59	17°♉51'13		
evening set	-501 May 09 j 05:56	26°♉10'28		
conjunction	-501 May 27 j 10:20	28°♉32'41	-1°15'36	
minimum elong	-501 May 27 j 10:23	28°♉32'43	1°15'36	
max. Earth dist.	-501 May 27 j 20:40	28°♉36'05	9.97002 AU	
	-501 Jun 07 j 13:05	0°♊		
morning rise	-501 Jun 14 j 14:57	0°♊54'58		
retrograde	-501 Sep 27 j 17:30	9°♊14'09		
opposition	-501 Dec 03 j 05:28	5°♊45'12	-1°15'38	
min. Earth dist.	-501 Dec 02 j 21:44	5°♊46'48	7.99163 AU	
direct	-500 Feb 08 j 00:08	2°♊15'45		
evening set	-500 May 23 j 13:40	10°♊34'07		
conjunction	-500 Jun 10 j 18:49	12°♊55'41	-0°44'28	
minimum elong	-500 Jun 10 j 18:52	12°♊55'42	0°44'27	
max. Earth dist.	-500 Jun 11 j 05:03	12°♊59'01	10.01997 AU	
morning rise	-500 Jun 28 j 22:56	15°♊16'53		
retrograde	-500 Oct 11 j 00:02	23°♊27'42		
opposition	-500 Dec 16 j 10:30	20°♊00'00	-0°34'57	
min. Earth dist.	-500 Dec 16 j 02:44	20°♊01'36	8.05550 AU	
direct	-499 Feb 21 j 17:34	16°♊30'26		
evening set	-499 Jun 07 j 16:45	24°♊45'29		
conjunction	-499 Jun 25 j 20:57	27°♊05'28	-0°11'03	
minimum elong	-499 Jun 25 j 20:58	27°♊05'29	0°11'03	
behind sun begin	-499 Jun 25 j 15:33	27°♊03'45		
behind sun end	-499 Jun 26 j 02:24	27°♊07'13		
max. Earth dist.	-499 Jun 26 j 06:57	27°♊08'41	10.09784 AU	
morning rise	-499 Jul 13 j 22:54	29°♊24'41		
	-499 Jul 18 j 15:19	0°♋		
retrograde	-499 Oct 24 j 22:01	7°♋25'37		
asc. node	-499 Oct 27 j 17:27	7°♋25'11		
opposition	-499 Dec 30 j 10:20	3°♋59'19	0°07'02	
min. Earth dist.	-499 Dec 30 j 02:28	4°♋00'56	8.14539 AU	
direct	-498 Mar 08 j 07:27	0°♋29'55		
evening set	-498 Jun 22 j 12:47	8°♋39'37		
conjunction	-498 Jul 10 j 14:24	10°♋57'13	0°22'28	

Attention, astronomical year style is used: The year -498 in astronomical counting style is the year 499 BCE in historical counting style.

minimum elong	-498 Jul 10 j 14:22	10°♋57'13	0°22'29	
max. Earth dist.	-498 Jul 10 j 23:53	11°♋00'15	10.19897 AU	
morning rise	-498 Jul 28 j 12:35	13°♋13'41		
retrograde	-498 Nov 07 j 11:55	21°♋03'57		
opposition	-497 Jan 13 j 03:52	17°♋39'09	0°47'34	
min. Earth dist.	-497 Jan 12 j 20:05	17°♋40'44	8.25584 AU	
direct	-497 Mar 22 j 15:58	14°♋10'14		
evening set	-497 Jul 06 j 23:25	22°♋12'58		
conjunction	-497 Jul 24 j 21:03	24°♋27'36	0°53'56	
minimum elong	-497 Jul 24 j 21:01	24°♋27'35	0°53'57	
max. Earth dist.	-497 Jul 25 j 05:56	24°♋30'24	10.31721 AU	
morning rise	-497 Aug 11 j 14:20	26°♋40'51		
	-497 Sep 09 j 02:53	0°♌		
retrograde	-497 Nov 20 j 16:35	4°♌20'23		
opposition	-496 Jan 26 j 14:50	0°♌57'06	1°24'22	
min. Earth dist.	-496 Jan 26 j 07:33	0°♌58'33	8.38024 AU	
	-496 Feb 07 j 16:39	30°℞♋		
direct	-496 Apr 04 j 17:56	27°♋28'55		
	-496 May 30 j 11:24	0°♌		
evening set	-496 Jul 19 j 23:01	5°♌23'35		
conjunction	-496 Aug 06 j 15:45	7°♌34'55	1°21'46	
minimum elong	-496 Aug 06 j 15:42	7°♌34'54	1°21'47	
max. Earth dist.	-496 Aug 06 j 23:48	7°♌37'25	10.44570 AU	
morning rise	-496 Aug 24 j 03:30	9°♌44'44		
	-496 Oct 12 j 14:44	15°♌		
retrograde	-496 Dec 02 j 12:27	17°♌14'03		
	-495 Jan 24 j 04:18	15°℞♌		
opposition	-495 Feb 07 j 18:53	13°♌52'14	1°55'42	
min. Earth dist.	-495 Feb 07 j 13:10	13°♌53'22	8.51162 AU	
direct	-495 Apr 18 j 12:00	10°♌24'59		
	-495 Jul 05 j 11:14	15°♌		
evening set	-495 Aug 02 j 11:20	18°♌11'02		
conjunction	-495 Aug 19 j 22:39	20°♌19'00	1°44'49	
minimum elong	-495 Aug 19 j 22:36	20°♌18'59	1°44'49	
max. Earth dist.	-495 Aug 20 j 04:41	20°♌20'52	10.57750 AU	
morning rise	-495 Sep 06 j 04:51	22°♌25'26		
retrograde	-495 Dec 15 j 00:34	29°♌45'22		
opposition	-494 Feb 20 j 16:05	26°♌24'56	2°20'29	
min. Earth dist.	-494 Feb 20 j 12:25	26°♌25'39	8.64313 AU	
direct	-494 May 01 j 21:17	22°♌58'45		
	-494 Aug 10 j 09:46	0°♍		
evening set	-494 Aug 15 j 12:14	0°♍36'05		
conjunction	-494 Sep 01 j 18:08	2°♍40'52	2°02'20	
minimum elong	-494 Sep 01 j 18:05	2°♍40'51	2°02'20	
max. Earth dist.	-494 Sep 01 j 21:26	2°♍41'52	10.70617 AU	
morning rise	-494 Sep 18 j 19:10	4°♍44'09		
retrograde	-494 Dec 27 j 03:17	11°♍55'54		
opposition	-493 Mar 05 j 07:13	8°♍36'39	2°38'07	
min. Earth dist.	-493 Mar 05 j 05:16	8°♍37'01	8.76854 AU	
direct	-493 May 15 j 00:15	5°♍11'40		
evening set	-493 Aug 28 j 02:04	12°♍40'31		
conjunction	-493 Sep 14 j 03:03	14°♍42'24	2°13'58	
minimum elong	-493 Sep 14 j 03:01	14°♍42'24	2°13'58	
max. Earth dist.	-493 Sep 14 j 04:00	14°♍42'41	10.82598 AU	
morning rise	-493 Sep 30 j 23:32	16°♍42'56		
retrograde	-492 Jan 08 j 01:39	23°♍47'53		
opposition	-492 Mar 16 j 16:48	20°♍29'36	2°48'27	
min. Earth dist.	-492 Mar 16 j 15:47	20°♍29'48	8.88243 AU	
direct	-492 May 26 j 19:40	17°♍05'54		
evening set	-492 Sep 08 j 06:06	24°♍26'49		
conjunction	-492 Sep 25 j 03:00	26°♍26'17	2°19'41	
minimum elong	-492 Sep 25 j 02:59	26°♍26'17	2°19'40	
max. Earth dist.	-492 Sep 25 j 02:44	26°♍26'13	10.93206 AU	
morning rise	-492 Oct 11 j 19:39	28°♍24'32		
	-492 Oct 25 j 20:06	0°♎		
retrograde	-491 Jan 18 j 20:44	5°♎24'05		
opposition	-491 Mar 28 j 21:37	2°♎06'36	2°51'35	
min. Earth dist.	-491 Mar 28 j 22:07	2°♎06'30	8.98029 AU	
	-491 Apr 28 j 09:07	30°℞♍		
direct	-491 Jun 08 j 05:39	28°♍44'10		
	-491 Jul 18 j 09:29	0°♎		
evening set	-491 Sep 20 j 01:47	5°♎57'59		
conjunction	-491 Oct 06 j 19:22	7°♎55'33	2°19'36	
minimum elong	-491 Oct 06 j 19:23	7°♎55'33	2°19'36	
max. Earth dist.	-491 Oct 06 j 17:29	7°♎54'59	11.02034 AU	
morning rise	-491 Oct 23 j 09:10	9°♎52'04		
retrograde	-490 Jan 30 j 10:58	16°♎47'42		
opposition	-490 Apr 09 j 23:06	13°♎30'48	2°47'53	
min. Earth dist.	-490 Apr 10 j 01:45	13°♎30'19	9.05852 AU	
direct	-490 Jun 20 j 10:13	10°♎09'34		
evening set	-490 Oct 01 j 14:35	17°♎17'21		
conjunction	-490 Oct 18 j 05:33	19°♎13'29	2°14'03	
minimum elong	-490 Oct 18 j 05:34	19°♎13'29	2°14'03	
max. Earth dist.	-490 Oct 18 j 01:11	19°♎12'12	11.08766 AU	
morning rise	-490 Nov 03 j 17:36	21°♎08'48		
retrograde	-489 Feb 11 j 00:04	28°♎02'08		
opposition	-489 Apr 21 j 22:05	24°♎45'34	2°37'47	
min. Earth dist.	-489 Apr 22 j 02:44	24°♎44'42	9.11441 AU	
direct	-489 Jul 02 j 10:27	21°♎25'24		
evening set	-489 Oct 12 j 22:11	28°♎28'18		
	-489 Oct 26 j 02:54	0°♏		
conjunction	-489 Oct 29 j 11:29	0°♏23'33	2°03'24	
minimum elong	-489 Oct 29 j 11:31	0°♏23'34	2°03'25	
max. Earth dist.	-489 Oct 29 j 05:10	0°♏21'42	11.13182 AU	
morning rise	-489 Nov 14 j 22:45	2°♏18'14		
retrograde	-488 Feb 22 j 11:51	9°♏10'49		
opposition	-488 May 02 j 19:32	5°♏54'16	2°21'51	
min. Earth dist.	-488 May 03 j 01:02	5°♏53'16	9.14609 AU	
direct	-488 Jul 13 j 06:13	2°♏35'03		
evening set	-488 Oct 23 j 02:15	9°♏34'21		
conjunction	-488 Nov 08 j 14:51	11°♏29'14	1°48'10	
minimum elong	-488 Nov 08 j 14:54	11°♏29'14	1°48'10	
max. Earth dist.	-488 Nov 08 j 07:58	11°♏27'13	11.15122 AU	
morning rise	-488 Nov 25 j 02:02	13°♏23'46		
	-488 Dec 09 j 11:56	15°♏		
retrograde	-487 Mar 05 j 03:34	20°♏17'11		
opposition	-487 May 14 j 16:41	17°♏00'26	2°00'41	
min. Earth dist.	-487 May 14 j 22:49	16°♏59'19	9.15239 AU	
	-487 Jun 13 j 04:41	15°℞♏		
direct	-487 Jul 25 j 00:33	13°♏41'56		
	-487 Sep 03 j 16:27	15°♏		
evening set	-487 Nov 03 j 04:47	20°♏39'02		
conjunction	-487 Nov 19 j 17:16	22°♏34'01	1°28'54	
minimum elong	-487 Nov 19 j 17:18	22°♏34'02	1°28'53	
max. Earth dist.	-487 Nov 19 j 09:34	22°♏31'46	11.14512 AU	
morning rise	-487 Dec 06 j 05:04	24°♏28'53		
	-486 Feb 02 j 13:40	0°♐		
retrograde	-486 Mar 16 j 19:58	1°♐24'44		
	-486 Apr 29 j 07:49	30°℞♏		
opposition	-486 May 26 j 14:47	28°♏07'30	1°35'00	
min. Earth dist.	-486 May 26 j 22:08	28°♏06'10	9.13318 AU	
direct	-486 Aug 05 j 14:47	24°♏49'31		
	-486 Oct 29 j 10:55	0°♐		

Attention, astronomical year style is used: The year -486 in astronomical counting style is the year 487 BCE in historical counting style.

evening set	-486 Nov 14 j 07:36	1°♐45'53	
conjunction	-486 Nov 30 j 20:25	3°♐41'23	1°06'12
minimum elong	-486 Nov 30 j 20:27	3°♐41'24	1°06'11
max. Earth dist.	-486 Nov 30 j 10:59	3°♐38'37	11.11386 AU
morning rise	-486 Dec 17 j 09:41	5°♐37'05	
retrograde	-485 Mar 28 j 15:36	12°♐36'58	
opposition	-485 Jun 07 j 14:53	9°♐18'59	1°05'34
min. Earth dist.	-485 Jun 07 j 23:24	9°♐17'25	9.08924 AU
direct	-485 Aug 17 j 06:37	6°♐01'11	
evening set	-485 Nov 25 j 12:16	12°♐58'22	
conjunction	-485 Dec 12 j 02:04	14°♐54'52	0°40'48
minimum elong	-485 Dec 12 j 02:06	14°♐54'52	0°40'47
max. Earth dist.	-485 Dec 11 j 16:05	14°♐51'55	11.05837 AU
morning rise	-485 Dec 28 j 17:15	16°♐51'46	
retrograde	-484 Apr 08 j 17:12	23°♐57'16	
opposition	-484 Jun 18 j 17:51	20°♐38'16	0°33'14
min. Earth dist.	-484 Jun 19 j 02:30	20°♐36'40	9.02177 AU
direct	-484 Aug 28 j 00:16	17°♐20'25	
evening set	-484 Dec 05 j 20:47	24°♐20'00	
conjunction	-484 Dec 22 j 12:06	26°♐17'51	0°13'29
minimum elong	-484 Dec 22 j 12:07	26°♐17'51	0°13'29
behind sun begin	-484 Dec 22 j 08:05	26°♐16'40	
behind sun end	-484 Dec 22 j 16:09	26°♐19'02	
max. Earth dist.	-484 Dec 22 j 02:38	26°♐15'02	10.98007 AU
morning rise	-483 Jan 08 j 05:23	28°♐16'21	
	-483 Jan 23 j 11:32	0°♑	
retrograde	-483 Apr 21 j 00:52	5°♑28'58	
desc. node	-483 Jun 20 j 03:57	2°♑56'43	
opposition	-483 Jul 01 j 00:40	2°♑08'43	-0°01'00
min. Earth dist.	-483 Jul 01 j 08:42	2°♑07'13	8.93261 AU
	-483 Aug 01 j 10:06	30°℞♐	
direct	-483 Sep 08 j 19:41	28°♐50'33	
	-483 Oct 16 j 04:18	0°♑	
evening set	-483 Dec 17 j 10:54	5°♑54'10	
conjunction	-482 Jan 03 j 03:59	7°♑53'44	-0°14'54
minimum elong	-482 Jan 03 j 03:58	7°♑53'44	0°14'54
behind sun begin	-482 Jan 03 j 01:06	7°♑52'53	
behind sun end	-482 Jan 03 j 06:51	7°♑54'35	
max. Earth dist.	-482 Jan 02 j 18:22	7°♑50'52	10.88117 AU
morning rise	-482 Jan 19 j 23:47	9°♑54'11	
retrograde	-482 May 03 j 17:18	17°♑15'23	
opposition	-482 Jul 13 j 12:42	13°♑53'43	-0°35'58
min. Earth dist.	-482 Jul 13 j 20:34	13°♑52'14	8.82439 AU
direct	-482 Sep 20 j 18:36	10°♑34'58	
evening set	-482 Dec 29 j 08:15	17°♑44'15	
conjunction	-481 Jan 15 j 03:21	19°♑45'53	-0°43'10
minimum elong	-481 Jan 15 j 03:19	19°♑45'52	0°43'10
max. Earth dist.	-481 Jan 14 j 17:13	19°♑42'48	10.76478 AU
morning rise	-481 Feb 01 j 02:06	21°♑48'38	
retrograde	-481 May 16 j 16:51	29°♑19'43	
opposition	-481 Jul 26 j 06:41	25°♑56'30	-1°10'19
min. Earth dist.	-481 Jul 26 j 14:32	25°♑55'01	8.70093 AU
direct	-481 Oct 02 j 21:47	22°♑36'55	
evening set	-480 Jan 10 j 14:38	29°♑53'31	
	-480 Jan 11 j 12:11	0°♒	
conjunction	-480 Jan 27 j 12:12	1°♒57'29	-1°10'12
minimum elong	-480 Jan 27 j 12:10	1°♒57'29	1°10'12
max. Earth dist.	-480 Jan 27 j 02:33	1°♒54'31	10.63558 AU
morning rise	-480 Feb 13 j 14:05	4°♒02'49	
retrograde	-480 May 29 j 00:11	11°♒44'42	
opposition	-480 Aug 07 j 07:06	8°♒19'53	-1°42'28
min. Earth dist.	-480 Aug 07 j 14:16	8°♒18'30	8.56789 AU
direct	-480 Oct 14 j 09:39	4°♒59'14	
evening set	-479 Jan 22 j 07:14	12°♒24'25	
conjunction	-479 Feb 08 j 07:44	14°♒31'01	-1°34'38
minimum elong	-479 Feb 08 j 07:42	14°♒31'00	1°34'39
max. Earth dist.	-479 Feb 08 j 00:15	14°♒28'41	10.49986 AU
	-479 Feb 12 j 04:34	15°♒	
morning rise	-479 Feb 25 j 12:49	16°♒39'05	
retrograde	-479 Jun 11 j 17:52	24°♒32'13	
opposition	-479 Aug 20 j 14:39	21°♒05'46	-2°10'41
min. Earth dist.	-479 Aug 20 j 19:50	21°♒04'45	8.43197 AU
direct	-479 Oct 27 j 04:20	17°♒43'54	
evening set	-478 Feb 04 j 11:00	25°♒18'33	
conjunction	-478 Feb 21 j 14:49	27°♒27'56	-1°55'00
minimum elong	-478 Feb 21 j 14:46	27°♒27'55	1°55'00
max. Earth dist.	-478 Feb 21 j 09:52	27°♒26'22	10.36460 AU
morning rise	-478 Mar 10 j 23:20	29°♒38'53	
	-478 Mar 13 j 19:48	0°♓	
retrograde	-478 Jun 25 j 21:07	7°♓42'59	
opposition	-478 Sep 03 j 05:15	4°♓14'59	-2°33'04
min. Earth dist.	-478 Sep 03 j 08:01	4°♓14'26	8.30021 AU
direct	-478 Nov 09 j 05:57	0°♓51'47	
evening set	-477 Feb 18 j 02:43	8°♓36'23	
conjunction	-477 Mar 07 j 10:12	10°♓48'38	-2°09'49
minimum elong	-477 Mar 07 j 10:10	10°♓48'37	2°09'49
max. Earth dist.	-477 Mar 07 j 07:34	10°♓47'47	10.23709 AU
morning rise	-477 Mar 24 j 22:28	13°♓02'28	
retrograde	-477 Jul 10 j 07:07	21°♓16'26	
opposition	-477 Sep 17 j 02:21	17°♓47'07	-2°47'44
min. Earth dist.	-477 Sep 17 j 02:58	17°♓46'59	8.17979 AU
direct	-477 Nov 22 j 16:58	14°♓22'30	
evening set	-476 Mar 03 j 06:01	22°♓16'59	
conjunction	-476 Mar 20 j 17:33	24°♓32'03	-2°17'44
minimum elong	-476 Mar 20 j 17:32	24°♓32'03	2°17'44
max. Earth dist.	-476 Mar 20 j 17:02	24°♓31'53	10.12455 AU
morning rise	-476 Apr 07 j 09:47	26°♓48'39	
	-476 May 03 j 19:19	0°♈	
retrograde	-476 Jul 23 j 23:06	5°♈10'35	
opposition	-476 Sep 30 j 05:24	1°♈40'17	-2°53'07
min. Earth dist.	-476 Sep 30 j 04:15	1°♈40'31	8.07763 AU
	-476 Oct 21 j 14:18	30°℞♓	
direct	-476 Dec 05 j 12:32	28°♓14'17	
	-475 Jan 18 j 10:43	0°♈	
evening set	-475 Mar 17 j 19:44	6°♈17'47	
conjunction	-475 Apr 04 j 11:37	8°♈35'29	-2°17'45
minimum elong	-475 Apr 04 j 11:38	8°♈35'29	2°17'45
max. Earth dist.	-475 Apr 04 j 13:33	8°♈36'07	10.03372 AU
morning rise	-475 Apr 22 j 07:48	10°♈54'33	
retrograde	-475 Aug 07 j 19:03	19°♈21'47	
opposition	-475 Oct 14 j 12:59	15°♈50'53	-2°48'09
min. Earth dist.	-475 Oct 14 j 10:12	15°♈51'28	8.00002 AU
direct	-475 Dec 19 j 15:58	12°♈23'36	
evening set	-474 Apr 01 j 18:25	20°♈34'37	
conjunction	-474 Apr 19 j 14:46	22°♈54'34	-2°09'21
minimum elong	-474 Apr 19 j 14:49	22°♈54'35	2°09'21
max. Earth dist.	-474 Apr 19 j 19:28	22°♈56'07	9.97039 AU
morning rise	-474 May 07 j 14:38	25°♈15'38	
	-474 Jun 16 j 20:07	0°♉	
retrograde	-474 Aug 22 j 16:33	3°♉44'52	
opposition	-474 Oct 28 j 23:13	0°♉13'49	-2°32'36
min. Earth dist.	-474 Oct 28 j 18:40	0°♉14'45	7.95193 AU

Attention, astronomical year style is used: The year -474 in astronomical counting style is the year 475 BCE in historical counting style.

	-474 Oct 31 j 17:41	30°℞♈	
direct	-473 Jan 03 j 02:21	26°♈45'23	
	-473 Mar 04 j 19:43	0°♉	
evening set	-473 Apr 16 j 23:37	5°♉01'52	
conjunction	-473 May 05 j 00:04	7°♉23'27	-1°52'47
minimum elong	-473 May 05 j 00:08	7°♉23'28	1°52'47
max. Earth dist.	-473 May 05 j 07:22	7°♉25'51	9.93865 AU
morning rise	-473 May 23 j 02:51	9°♉45'46	
	-473 Jul 07 j 06:11	15°♉	
retrograde	-473 Sep 06 j 12:40	18°♉13'35	
	-473 Nov 08 j 23:51	15°℞♉	
opposition	-473 Nov 12 j 10:25	14°♉42'48	-2°07'15
min. Earth dist.	-473 Nov 12 j 04:02	14°♉44'08	7.93650 AU
direct	-472 Jan 17 j 18:14	11°♉13'31	
	-472 Mar 23 j 22:28	15°♉	
evening set	-472 May 01 j 08:12	19°♉32'55	
conjunction	-472 May 19 j 11:45	21°♉55'18	-1°29'02
minimum elong	-472 May 19 j 11:48	21°♉55'19	1°29'01
max. Earth dist.	-472 May 19 j 21:21	21°♉58'27	9.94055 AU
morning rise	-472 Jun 06 j 16:12	24°♉17'58	
	-472 Jul 26 j 21:57	0°♊	
retrograde	-472 Sep 20 j 04:32	2°♊41'07	
	-472 Nov 15 j 23:33	30°℞♉	
opposition	-472 Nov 25 j 20:28	29°♉11'03	-1°33'47
min. Earth dist.	-472 Nov 25 j 12:24	29°♉12'44	7.95478 AU
direct	-471 Jan 31 j 11:46	25°♉41'12	
	-471 Apr 13 j 04:03	0°♊	
evening set	-471 May 16 j 17:03	4°♊00'53	
conjunction	-471 Jun 03 j 22:17	6°♊23'06	-0°59'46
minimum elong	-471 Jun 03 j 22:19	6°♊23'07	0°59'45
max. Earth dist.	-471 Jun 04 j 09:36	6°♊26'49	9.97599 AU
morning rise	-471 Jun 22 j 02:55	8°♊45'08	
retrograde	-471 Oct 04 j 15:09	17°♊00'54	
opposition	-471 Dec 10 j 03:30	13°♊31'56	-0°54'43
min. Earth dist.	-471 Dec 09 j 18:28	13°♊33'49	8.00563 AU
direct	-470 Feb 15 j 04:47	10°♊01'51	
evening set	-470 May 31 j 22:55	18°♊19'16	
conjunction	-470 Jun 19 j 04:05	20°♊40'21	-0°27'06
minimum elong	-470 Jun 19 j 04:07	20°♊40'22	0°27'06
max. Earth dist.	-470 Jun 19 j 16:06	20°♊44'15	10.04246 AU
morning rise	-470 Jul 07 j 07:16	23°♊00'48	
	-470 Sep 13 j 20:49	0°♋	
retrograde	-470 Oct 18 j 18:54	1°♋07'12	
	-470 Nov 23 j 00:24	30°℞♊	
opposition	-470 Dec 24 j 06:06	27°♊39'40	-0°12'57
min. Earth dist.	-470 Dec 23 j 21:07	27°♊41'31	8.08561 AU
direct	-469 Mar 01 j 19:14	24°♊09'42	
asc. node	-469 Apr 19 j 21:14	26°♊14'06	
	-469 May 27 j 10:12	0°♋	
evening set	-469 Jun 15 j 22:54	2°♋22'39	
conjunction	-469 Jul 04 j 02:07	4°♋41'41	0°06'43
minimum elong	-469 Jul 04 j 02:06	4°♋41'40	0°06'44
behind sun begin	-469 Jul 03 j 19:16	4°♋39'30	
behind sun end	-469 Jul 04 j 08:55	4°♋43'51	
max. Earth dist.	-469 Jul 04 j 13:40	4°♋45'23	10.13548 AU
morning rise	-469 Jul 22 j 02:11	6°♋59'41	
retrograde	-469 Nov 01 j 14:22	14°♋55'38	
opposition	-468 Jan 07 j 03:01	11°♋29'44	0°28'39
min. Earth dist.	-468 Jan 06 j 18:39	11°♋31'26	8.18962 AU
direct	-468 Mar 15 j 06:23	8°♋00'14	
evening set	-468 Jun 29 j 14:27	16°♋06'56	

conjunction	-468 Jul 17 j 14:08	18°♋23'12	0°39'21
minimum elong	-468 Jul 17 j 14:07	18°♋23'11	0°39'22
max. Earth dist.	-468 Jul 18 j 00:28	18°♋26'28	10.24924 AU
morning rise	-468 Aug 04 j 09:55	20°♋38'10	
retrograde	-468 Nov 13 j 22:40	28°♋23'18	
opposition	-467 Jan 19 j 17:27	24°♋59'07	1°07'30
min. Earth dist.	-467 Jan 19 j 09:59	25°♋00'38	8.31136 AU
direct	-467 Mar 29 j 12:46	21°♋30'25	
evening set	-467 Jul 13 j 19:49	29°♋29'33	
	-467 Jul 17 j 22:36	0°♌	
conjunction	-467 Jul 31 j 14:54	1°♌42'35	1°09'06
minimum elong	-467 Jul 31 j 14:51	1°♌42'34	1°09'08
max. Earth dist.	-467 Jul 31 j 23:29	1°♌45'17	10.37700 AU
morning rise	-467 Aug 18 j 05:34	3°♌54'12	
retrograde	-467 Nov 26 j 22:14	11°♌28'47	
opposition	-466 Feb 02 j 01:05	8°♌06'18	1°41'38
min. Earth dist.	-466 Feb 01 j 18:18	8°♌07'39	8.44369 AU
direct	-466 Apr 12 j 11:36	4°♌38'38	
evening set	-466 Jul 27 j 14:09	12°♌29'22	
conjunction	-466 Aug 14 j 04:02	14°♌39'01	1°34'33
minimum elong	-466 Aug 14 j 03:59	14°♌39'00	1°34'34
max. Earth dist.	-466 Aug 14 j 11:03	14°♌41'12	10.51155 AU
	-466 Aug 16 j 23:49	15°♌	
morning rise	-466 Aug 31 j 13:04	16°♌47'09	
retrograde	-466 Dec 09 j 14:57	24°♌11'54	
opposition	-465 Feb 15 j 01:57	20°♌51'00	2°09'37
min. Earth dist.	-465 Feb 14 j 20:00	20°♌52'10	8.57945 AU
direct	-465 Apr 26 j 01:32	17°♌24'34	
evening set	-465 Aug 09 j 21:01	25°♌06'30	
conjunction	-465 Aug 27 j 05:34	27°♌12'50	1°54'45
minimum elong	-465 Aug 27 j 05:31	27°♌12'49	1°54'45
max. Earth dist.	-465 Aug 27 j 11:23	27°♌14'37	10.64604 AU
morning rise	-465 Sep 13 j 09:01	29°♌17'39	
	-465 Sep 19 j 08:04	0°♍	
retrograde	-465 Dec 21 j 23:32	6°♍33'34	
opposition	-464 Feb 27 j 20:33	3°♍14'05	2°30'39
min. Earth dist.	-464 Feb 27 j 16:11	3°♍14'55	8.71196 AU
	-464 Apr 23 j 08:18	30°℞♌	
direct	-464 May 08 j 07:15	29°♌48'57	
	-464 May 23 j 06:08	0°♍	
evening set	-464 Aug 21 j 16:34	7°♍22'06	
conjunction	-464 Sep 07 j 20:00	9°♍25'22	2°09'10
minimum elong	-464 Sep 07 j 19:57	9°♍25'21	2°09'10
max. Earth dist.	-464 Sep 07 j 23:56	9°♍26'33	10.77404 AU
morning rise	-464 Sep 24 j 18:28	11°♍27'12	
retrograde	-463 Jan 02 j 01:20	18°♍35'30	
opposition	-463 Mar 11 j 09:17	15°♍17'13	2°44'23
min. Earth dist.	-463 Mar 11 j 07:24	15°♍17'34	8.83494 AU
direct	-463 May 21 j 05:56	11°♍53'22	
evening set	-463 Sep 03 j 01:57	19°♍18'12	
conjunction	-463 Sep 20 j 00:41	21°♍18'47	2°17'38
minimum elong	-463 Sep 20 j 00:40	21°♍18'46	2°17'37
max. Earth dist.	-463 Sep 20 j 01:28	21°♍19'01	10.88963 AU
morning rise	-463 Oct 06 j 19:02	23°♍18'04	
	-463 Dec 25 j 02:40	0°♎	
retrograde	-462 Jan 13 j 21:17	0°♎20'08	
	-462 Feb 02 j 20:44	30°℞♍	
opposition	-462 Mar 23 j 16:46	27°♍02'46	2°50'49
min. Earth dist.	-462 Mar 23 j 17:15	27°♍02'41	8.94269 AU
direct	-462 Jun 02 j 20:47	23°♍40'12	
	-462 Sep 06 j 16:51	0°♎	
evening set	-462 Sep 15 j 02:04	0°♎57'27	

Attention, astronomical year style is used: The year -462 in astronomical counting style is the year 463 BCE in historical counting style.

conjunction	-462 Oct 01 j 20:57	2°♎55'49	2°20'12
minimum elong	-462 Oct 01 j 20:57	2°♎55'49	2°20'11
max. Earth dist.	-462 Oct 01 j 18:46	2°♎55'11	10.98760 AU
morning rise	-462 Oct 18 j 12:07	4°♎53'06	
retrograde	-461 Jan 25 j 12:53	11°♎50'32	
opposition	-461 Apr 04 j 20:15	8°♎33'49	2°50'13
min. Earth dist.	-461 Apr 04 j 22:20	8°♎33'26	9.03036 AU
direct	-461 Jun 15 j 06:11	5°♎12'26	
evening set	-461 Sep 26 j 18:17	12°♎23'07	
conjunction	-461 Oct 13 j 10:23	14°♎19'51	2°17'07
minimum elong	-461 Oct 13 j 10:24	14°♎19'51	2°17'06
max. Earth dist.	-461 Oct 13 j 06:32	14°♎18'43	11.06383 AU
morning rise	-461 Oct 29 j 23:12	16°♎15'41	
retrograde	-460 Feb 06 j 04:30	23°♎10'08	
opposition	-460 Apr 15 j 20:42	19°♎53'46	2°42'59
min. Earth dist.	-460 Apr 16 j 00:14	19°♎53'07	9.09473 AU
direct	-460 Jun 26 j 08:58	16°♎33'28	
evening set	-460 Oct 07 j 04:40	23°♎38'44	
conjunction	-460 Oct 23 j 18:49	25°♎34'23	2°08'44
minimum elong	-460 Oct 23 j 18:51	25°♎34'24	2°08'45
max. Earth dist.	-460 Oct 23 j 13:26	25°♎32'48	11.11602 AU
morning rise	-460 Nov 09 j 06:15	27°♎29'20	
	-460 Dec 02 j 06:01	0°♏	
retrograde	-459 Feb 16 j 17:28	4°♏22'19	
opposition	-459 Apr 27 j 19:07	1°♏06'03	2°29'39
min. Earth dist.	-459 Apr 28 j 00:52	1°♏04'59	9.13426 AU
	-459 May 13 j 01:47	30°℞♎	
direct	-459 Jul 08 j 06:02	27°♎46'36	
	-459 Aug 31 j 06:23	0°♏	
evening set	-459 Oct 18 j 10:53	4°♏47'45	
conjunction	-459 Nov 03 j 23:45	6°♏42'48	1°55'32
minimum elong	-459 Nov 03 j 23:47	6°♏42'49	1°55'32
max. Earth dist.	-459 Nov 03 j 15:50	6°♏40'30	11.14309 AU
morning rise	-459 Nov 20 j 10:52	8°♏37'25	
	-458 Feb 03 j 07:11	15°♏	
retrograde	-458 Feb 28 j 07:01	15°♏30'33	
	-458 Mar 25 j 15:20	15°℞♏	
opposition	-458 May 09 j 16:56	12°♏14'02	2°10'48
min. Earth dist.	-458 May 10 j 00:34	12°♏12'38	9.14825 AU
direct	-458 Jul 20 j 01:38	8°♏55'12	
	-458 Oct 21 j 16:23	15°♏	
evening set	-458 Oct 29 j 14:21	15°♏53'32	
conjunction	-458 Nov 15 j 02:43	17°♏48'30	1°38'02
minimum elong	-458 Nov 15 j 02:46	17°♏48'30	1°38'01
max. Earth dist.	-458 Nov 14 j 17:16	17°♏45'44	11.14458 AU
morning rise	-458 Dec 01 j 14:20	19°♏43'16	
retrograde	-457 Mar 11 j 21:28	26°♏38'09	
opposition	-457 May 21 j 14:55	23°♏21'03	1°47'06
min. Earth dist.	-457 May 21 j 23:16	23°♏19'31	9.13652 AU
direct	-457 Jul 31 j 18:48	20°♏02'38	
evening set	-457 Nov 09 j 17:02	26°♏59'34	
conjunction	-457 Nov 26 j 05:46	28°♏54'54	1°16'48
minimum elong	-457 Nov 26 j 05:48	28°♏54'54	1°16'48
max. Earth dist.	-457 Nov 25 j 20:17	28°♏52'07	11.12058 AU
	-457 Dec 05 j 12:21	0°♐	
morning rise	-457 Dec 12 j 18:22	0°♐50'17	
retrograde	-456 Mar 22 j 16:45	7°♐48'31	
opposition	-456 Jun 01 j 14:01	4°♐30'34	1°19'16
min. Earth dist.	-456 Jun 01 j 22:21	4°♐29'02	9.09960 AU
direct	-456 Aug 11 j 11:36	1°♐12'19	
evening set	-456 Nov 19 j 20:49	8°♐09'23	

conjunction	-456 Dec 06 j 10:20	10°♐05'33	0°52'32
minimum elong	-456 Dec 06 j 10:22	10°♐05'33	0°52'31
max. Earth dist.	-456 Dec 06 j 00:22	10°♐02'37	11.07192 AU
morning rise	-456 Dec 23 j 00:32	12°♐01'59	
retrograde	-455 Apr 03 j 16:41	19°♐05'08	
opposition	-455 Jun 13 j 15:41	15°♐46'09	0°48'07
min. Earth dist.	-455 Jun 14 j 00:33	15°♐44'31	9.03880 AU
direct	-455 Aug 23 j 02:49	12°♐27'51	
evening set	-455 Dec 01 j 03:29	19°♐26'39	
conjunction	-455 Dec 17 j 18:05	21°♐24'00	0°25'58
minimum elong	-455 Dec 17 j 18:06	21°♐24'00	0°25'58
max. Earth dist.	-455 Dec 17 j 07:08	21°♐20'46	11.00031 AU
morning rise	-454 Jan 03 j 10:26	23°♐21'55	
	-454 Mar 21 j 07:22	0°♑	
retrograde	-454 Apr 15 j 20:01	0°♑31'36	
	-454 May 11 j 17:08	30°℞♐	
opposition	-454 Jun 25 j 20:59	27°♐11'22	0°14'35
min. Earth dist.	-454 Jun 26 j 06:22	27°♐09'38	8.95629 AU
direct	-454 Sep 03 j 21:05	23°♐52'45	
desc. node	-454 Dec 01 j 21:46	29°♐41'08	
	-454 Dec 04 j 16:31	0°♑	
evening set	-454 Dec 12 j 14:53	0°♑54'58	
conjunction	-454 Dec 29 j 07:06	2°♑53'54	-0°02'07
minimum elong	-454 Dec 29 j 07:06	2°♑53'54	0°02'07
behind sun begin	-454 Dec 29 j 00:06	2°♑51'50	
behind sun end	-454 Dec 29 j 14:05	2°♑55'58	
max. Earth dist.	-454 Dec 28 j 20:10	2°♑50'39	10.90826 AU
morning rise	-453 Jan 15 j 01:56	4°♑53'38	
retrograde	-453 Apr 28 j 08:02	12°♑11'22	
opposition	-453 Jul 08 j 06:42	8°♑49'44	-0°20'14
min. Earth dist.	-453 Jul 08 j 15:42	8°♑48'03	8.85500 AU
direct	-453 Sep 15 j 19:29	5°♑30'37	
evening set	-453 Dec 24 j 08:44	12°♑37'49	
conjunction	-452 Jan 10 j 03:03	14°♑38'41	-0°30'33
minimum elong	-452 Jan 10 j 03:02	14°♑38'41	0°30'33
max. Earth dist.	-452 Jan 09 j 17:29	14°♑35'48	10.79890 AU
morning rise	-452 Jan 27 j 00:32	16°♑40'35	
retrograde	-452 May 10 j 04:15	24°♑07'41	
opposition	-452 Jul 19 j 21:55	20°♑44'32	-0°55'05
min. Earth dist.	-452 Jul 20 j 05:28	20°♑43'06	8.73848 AU
direct	-452 Sep 26 j 20:47	17°♑24'45	
evening set	-451 Jan 04 j 10:53	24°♑38'31	
conjunction	-451 Jan 21 j 07:29	26°♑41'36	-0°58'19
minimum elong	-451 Jan 21 j 07:27	26°♑41'35	0°58'19
max. Earth dist.	-451 Jan 20 j 23:06	26°♑39'02	10.67631 AU
morning rise	-451 Feb 07 j 07:48	28°♑45'54	
	-451 Feb 17 j 19:03	0°♒	
retrograde	-451 May 23 j 08:57	6°♒23'27	
opposition	-451 Aug 01 j 19:28	2°♒58'45	-1°28'28
min. Earth dist.	-451 Aug 02 j 01:31	2°♒57'35	8.61138 AU
	-451 Sep 18 j 15:48	30°℞♑	
direct	-451 Oct 09 j 04:38	29°♑38'06	
	-451 Oct 29 j 11:33	0°♒	
evening set	-450 Jan 16 j 22:49	6°♒59'49	
conjunction	-450 Feb 02 j 21:57	9°♒05'23	-1°24'06
minimum elong	-450 Feb 02 j 21:55	9°♒05'22	1°24'07
max. Earth dist.	-450 Feb 02 j 14:21	9°♒03'01	10.54573 AU
morning rise	-450 Feb 20 j 01:32	11°♒12'21	
	-450 Mar 25 j 15:41	15°♒	
retrograde	-450 Jun 05 j 23:28	19°♒00'57	
opposition	-450 Aug 15 j 00:03	15°♒34'45	-1°58'41
min. Earth dist.	-450 Aug 15 j 04:54	15°♒33'48	8.47939 AU

Attention, astronomical year style is used: The year -450 in astronomical counting style is the year 451 BCE in historical counting style.

	-450 Aug 22 j 11:07	15°R♒	
direct	-450 Oct 21 j 18:36	12°♒13'04	
	-450 Dec 17 j 22:22	15°♒	
evening set	-449 Jan 29 j 21:37	19°♒43'51	
conjunction	-449 Feb 15 j 23:45	21°♒52'05	-1°46'28
minimum elong	-449 Feb 15 j 23:42	21°♒52'04	1°46'29
max. Earth dist.	-449 Feb 15 j 17:36	21°♒50'09	10.41321 AU
morning rise	-449 Mar 05 j 06:50	24°♒01'53	
	-449 May 01 j 03:43	0°♓	
retrograde	-449 Jun 19 j 22:20	2°♓01'34	
	-449 Aug 09 j 18:17	30°R♒	
opposition	-449 Aug 28 j 11:46	28°♒33'58	-2°23'54
min. Earth dist.	-449 Aug 28 j 15:22	28°♒33'15	8.34882 AU
direct	-449 Nov 03 j 16:57	25°♒11'09	
	-448 Jan 19 j 07:18	0°♓	
evening set	-448 Feb 12 j 08:09	2°♓51'44	
conjunction	-448 Feb 29 j 13:49	5°♓02'46	-2°03'56
minimum elong	-448 Feb 29 j 13:46	5°♓02'45	2°03'57
max. Earth dist.	-448 Feb 29 j 10:16	5°♓01'38	10.28537 AU
morning rise	-448 Mar 18 j 00:29	7°♓15'25	
retrograde	-448 Jul 03 j 04:13	15°♓25'32	
opposition	-448 Sep 10 j 06:17	11°♓56'43	-2°42'12
min. Earth dist.	-448 Sep 10 j 07:50	11°♓56'24	8.22652 AU
direct	-448 Nov 16 j 01:36	8°♓32'42	
evening set	-447 Feb 25 j 06:27	16°♓23'12	
conjunction	-447 Mar 14 j 16:07	18°♓37'06	-2°15'04
minimum elong	-447 Mar 14 j 16:06	18°♓37'05	2°15'05
max. Earth dist.	-447 Mar 14 j 15:52	18°♓37'01	10.16939 AU
morning rise	-447 Apr 01 j 06:32	20°♓52'32	
retrograde	-447 Jul 17 j 17:57	29°♓11'34	
opposition	-447 Sep 24 j 07:13	25°♓41'47	-2°51'51
min. Earth dist.	-447 Sep 24 j 06:11	25°♓41'59	8.11959 AU
direct	-447 Nov 29 j 17:38	22°♓16'35	
	-446 Mar 09 j 12:14	0°♈	
evening set	-446 Mar 11 j 15:57	0°♈16'27	
conjunction	-446 Mar 29 j 05:58	2°♈33'04	-2°18'40
minimum elong	-446 Mar 29 j 05:59	2°♈33'04	2°18'40
max. Earth dist.	-446 Mar 29 j 09:06	2°♈34'05	10.07230 AU
morning rise	-446 Apr 16 j 00:17	4°♈51'06	
retrograde	-446 Aug 01 j 13:44	13°♈16'38	
opposition	-446 Oct 08 j 13:20	9°♈46'13	-2°51'31
min. Earth dist.	-446 Oct 08 j 09:43	9°♈46'58	8.03457 AU
direct	-446 Dec 13 j 17:16	6°♈19'53	
evening set	-445 Mar 26 j 11:29	14°♈27'53	
conjunction	-445 Apr 13 j 05:57	16°♈46'53	-2°14'00
minimum elong	-445 Apr 13 j 05:59	16°♈46'54	2°13'59
max. Earth dist.	-445 Apr 13 j 11:46	16°♈48'48	10.00029 AU
morning rise	-445 May 01 j 04:02	19°♈07'06	
retrograde	-445 Aug 16 j 12:05	27°♈35'59	
opposition	-445 Oct 22 j 22:55	24°♈05'22	-2°40'35
min. Earth dist.	-445 Oct 22 j 17:25	24°♈06'30	7.97692 AU
direct	-445 Dec 28 j 00:20	20°♈37'57	
evening set	-444 Apr 09 j 14:35	28°♈52'12	
	-444 Apr 18 j 06:58	0°♉	
conjunction	-444 Apr 27 j 13:14	1°♉13'04	-2°00'57
minimum elong	-444 Apr 27 j 13:17	1°♉13'05	2°00'56
max. Earth dist.	-444 Apr 27 j 21:07	1°♉15'40	9.95803 AU
morning rise	-444 May 15 j 14:36	3°♉34'49	
retrograde	-444 Aug 30 j 10:10	12°♉03'35	
opposition	-444 Nov 05 j 10:22	8°♉33'08	-2°19'23
min. Earth dist.	-444 Nov 05 j 03:39	8°♉34'32	7.95024 AU

direct	-443 Jan 10 j 14:07	5°♉04'47	
evening set	-443 Apr 24 j 22:11	13°♉22'52	
	-443 May 07 j 08:01	15°♉	
conjunction	-443 May 13 j 00:19	15°♉44'51	-1°40'12
minimum elong	-443 May 13 j 00:23	15°♉44'52	1°40'11
max. Earth dist.	-443 May 13 j 09:35	15°♉47'54	9.94782 AU
morning rise	-443 May 31 j 04:06	18°♉07'21	
retrograde	-443 Sep 14 j 04:23	26°♉32'38	
opposition	-443 Nov 19 j 21:22	23°♉02'45	-1°49'14
min. Earth dist.	-443 Nov 19 j 14:09	23°♉04'15	7.95551 AU
direct	-442 Jan 25 j 07:31	19°♉33'39	
evening set	-442 May 10 j 07:30	27°♉53'06	
	-442 May 26 j 13:10	0°♊	
conjunction	-442 May 28 j 11:58	0°♊15'21	-1°13'08
minimum elong	-442 May 28 j 12:01	0°♊15'22	1°13'07
max. Earth dist.	-442 May 28 j 21:37	0°♊18'31	9.96918 AU
morning rise	-442 Jun 15 j 16:46	2°♊37'40	
retrograde	-442 Sep 28 j 17:20	10°♊56'39	
opposition	-442 Dec 04 j 06:01	7°♊27'44	-1°12'19
min. Earth dist.	-442 Dec 03 j 22:39	7°♊29'16	7.99138 AU
direct	-441 Feb 09 j 01:40	3°♊58'14	
evening set	-441 May 25 j 15:19	12°♊16'41	
conjunction	-441 Jun 12 j 20:32	14°♊38'17	-0°41'41
minimum elong	-441 Jun 12 j 20:34	14°♊38'18	0°41'40
max. Earth dist.	-441 Jun 13 j 06:16	14°♊41'27	10.02017 AU
morning rise	-441 Jul 01 j 00:41	16°♊59'28	
retrograde	-441 Oct 13 j 00:08	25°♊10'06	
opposition	-441 Dec 18 j 11:02	21°♊42'26	-0°31'23
min. Earth dist.	-441 Dec 18 j 03:11	21°♊44'03	8.05589 AU
direct	-440 Feb 23 j 18:39	18°♊12'51	
evening set	-440 Jun 08 j 18:24	26°♊28'00	
conjunction	-440 Jun 26 j 22:36	28°♊47'59	-0°08'09
minimum elong	-440 Jun 26 j 22:37	28°♊47'59	0°08'08
behind sun begin	-440 Jun 26 j 16:07	28°♊45'55	
behind sun end	-440 Jun 27 j 05:06	28°♊50'04	
max. Earth dist.	-440 Jun 27 j 08:39	28°♊51'13	10.09835 AU
	-440 Jul 06 j 05:50	0°♋	
morning rise	-440 Jul 15 j 00:22	1°♋07'09	
asc. node	-440 Sep 25 j 21:17	8°♋17'53	
retrograde	-440 Oct 25 j 23:05	9°♋07'59	
opposition	-440 Dec 31 j 10:55	5°♋41'44	0°10'39
min. Earth dist.	-440 Dec 31 j 02:39	5°♋43'26	8.14592 AU
direct	-439 Mar 09 j 08:25	2°♋12'23	
evening set	-439 Jun 23 j 14:23	10°♋22'12	
conjunction	-439 Jul 11 j 15:55	12°♋39'46	0°25'21
minimum elong	-439 Jul 11 j 15:54	12°♋39'46	0°25'21
max. Earth dist.	-439 Jul 12 j 01:58	12°♋42'58	10.19951 AU
morning rise	-439 Jul 29 j 13:49	14°♋56'11	
retrograde	-439 Nov 08 j 12:51	22°♋46'26	
opposition	-438 Jan 14 j 04:36	19°♋21'43	0°51'02
min. Earth dist.	-438 Jan 13 j 20:39	19°♋23'19	8.25636 AU
direct	-438 Mar 23 j 17:03	15°♋52'51	
evening set	-438 Jul 08 j 01:04	23°♋55'44	
conjunction	-438 Jul 25 j 22:31	26°♋10'19	0°56'37
minimum elong	-438 Jul 25 j 22:29	26°♋10'19	0°56'37
max. Earth dist.	-438 Jul 26 j 07:50	26°♋13'16	10.31769 AU
morning rise	-438 Aug 12 j 15:26	28°♋23'30	
	-438 Aug 25 j 22:59	0°♌	
retrograde	-438 Nov 21 j 18:06	6°♌03'05	
opposition	-437 Jan 27 j 15:46	2°♌39'55	1°27'30
min. Earth dist.	-437 Jan 27 j 09:00	2°♌41'16	8.38073 AU

Attention, astronomical year style is used: The year -437 in astronomical counting style is the year 438 BCE in historical counting style.

	-437 Mar 06 j 22:06	30°℞♋	
direct	-437 Apr 06 j 18:26	29°♋11'48	
	-437 May 07 j 13:01	0°♌	
evening set	-437 Jul 22 j 00:49	7°♌06'39	
conjunction	-437 Aug 08 j 17:11	9°♌17'55	1°24'07
minimum elong	-437 Aug 08 j 17:07	9°♌17'54	1°24'08
max. Earth dist.	-437 Aug 09 j 00:57	9°♌20'20	10.44610 AU
morning rise	-437 Aug 26 j 04:37	11°♌27'39	
	-437 Sep 26 j 06:26	15°♌	
retrograde	-437 Dec 04 j 14:12	18°♌57'03	
opposition	-436 Feb 09 j 20:05	15°♌35'21	1°58'21
min. Earth dist.	-436 Feb 09 j 15:01	15°♌36'21	8.51212 AU
	-436 Feb 17 j 08:23	15°℞♌	
direct	-436 Apr 19 j 12:30	12°♌08'11	
	-436 Jun 18 j 19:20	15°♌	
evening set	-436 Aug 03 j 13:04	19°♌54'23	
conjunction	-436 Aug 20 j 23:57	22°♌02'17	1°46'43
minimum elong	-436 Aug 20 j 23:54	22°♌02'16	1°46'43
max. Earth dist.	-436 Aug 21 j 05:12	22°♌03'54	10.57796 AU
morning rise	-436 Sep 07 j 05:57	24°♌08'40	
	-436 Nov 04 j 18:17	0°♍	
retrograde	-436 Dec 16 j 00:24	1°♍28'43	
	-435 Jan 27 j 07:47	30°℞♌	
opposition	-435 Feb 21 j 17:29	28°♌08'22	2°22'31
min. Earth dist.	-435 Feb 21 j 13:47	28°♌09'05	8.64372 AU
direct	-435 May 02 j 23:31	24°♌42'16	
	-435 Jul 27 j 05:32	0°♍	
evening set	-435 Aug 16 j 13:46	2°♍19'42	
conjunction	-435 Sep 02 j 19:22	4°♍24'24	2°03'43
minimum elong	-435 Sep 02 j 19:20	4°♍24'24	2°03'43
max. Earth dist.	-435 Sep 02 j 22:27	4°♍25'21	10.70676 AU
morning rise	-435 Sep 19 j 20:14	6°♍27'40	
retrograde	-435 Dec 28 j 04:48	13°♍39'32	
opposition	-434 Mar 06 j 08:43	10°♍20'20	2°39'28
min. Earth dist.	-434 Mar 06 j 06:03	10°♍20'51	8.76917 AU
direct	-434 May 16 j 02:55	6°♍55'27	
evening set	-434 Aug 29 j 03:30	14°♍24'19	
conjunction	-434 Sep 15 j 04:20	16°♍26'10	2°14'47
minimum elong	-434 Sep 15 j 04:18	16°♍26'09	2°14'46
max. Earth dist.	-434 Sep 15 j 06:04	16°♍26'41	10.82662 AU
morning rise	-434 Oct 02 j 00:32	18°♍26'38	
retrograde	-433 Jan 09 j 04:02	25°♍31'40	
opposition	-433 Mar 18 j 18:28	22°♍13'26	2°49'05
min. Earth dist.	-433 Mar 18 j 17:04	22°♍13'42	8.88304 AU
direct	-433 May 28 j 20:21	18°♍49'49	
evening set	-433 Sep 10 j 07:26	26°♍10'40	
conjunction	-433 Sep 27 j 04:10	28°♍10'06	2°19'54
minimum elong	-433 Sep 27 j 04:10	28°♍10'06	2°19'53
max. Earth dist.	-433 Sep 27 j 04:34	28°♍10'13	10.93270 AU
	-433 Oct 12 j 16:01	0°♎	
morning rise	-433 Oct 13 j 20:34	0°♎08'19	
retrograde	-432 Jan 20 j 21:36	7°♎07'55	
opposition	-432 Mar 29 j 23:36	3°♎50'27	2°51'29
min. Earth dist.	-432 Mar 30 j 00:22	3°♎50'18	8.98099 AU
direct	-432 Jun 09 j 07:04	0°♎28'04	
evening set	-432 Sep 21 j 02:52	7°♎41'45	
conjunction	-432 Oct 07 j 20:13	9°♎39'15	2°19'14
minimum elong	-432 Oct 07 j 20:14	9°♎39'16	2°19'13
max. Earth dist.	-432 Oct 07 j 18:04	9°♎38'37	11.02108 AU
morning rise	-432 Oct 24 j 10:00	11°♎35'45	
retrograde	-431 Jan 31 j 12:32	18°♎31'26	
opposition	-431 Apr 11 j 01:03	15°♎14'31	2°47'04
min. Earth dist.	-431 Apr 11 j 03:53	15°♎13'59	9.05935 AU
direct	-431 Jun 21 j 12:16	11°♎53'18	
evening set	-431 Oct 02 j 15:29	19°♎00'53	
conjunction	-431 Oct 19 j 06:19	20°♎56'59	2°13'06
minimum elong	-431 Oct 19 j 06:20	20°♎57'00	2°13'06
max. Earth dist.	-431 Oct 19 j 01:48	20°♎55'40	11.08855 AU
morning rise	-431 Nov 04 j 18:25	22°♎52'18	
retrograde	-430 Feb 12 j 00:09	29°♎45'37	
opposition	-430 Apr 22 j 23:50	26°♎28'59	2°36'18
min. Earth dist.	-430 Apr 23 j 03:49	26°♎28'15	9.11531 AU
direct	-430 Jul 03 j 12:17	23°♎08'51	
	-430 Oct 12 j 06:27	0°♏	
evening set	-430 Oct 13 j 22:48	0°♏11'30	
conjunction	-430 Oct 30 j 12:09	2°♏06'43	2°01'56
minimum elong	-430 Oct 30 j 12:12	2°♏06'44	2°01'57
max. Earth dist.	-430 Oct 30 j 06:48	2°♏05'09	11.13279 AU
morning rise	-430 Nov 15 j 23:22	4°♏01'23	
retrograde	-429 Feb 23 j 14:20	10°♏53'57	
opposition	-429 May 04 j 21:15	7°♏37'20	2°19'46
min. Earth dist.	-429 May 05 j 01:54	7°♏36'29	9.14701 AU
direct	-429 Jul 15 j 09:02	4°♏18'08	
evening set	-429 Oct 25 j 02:38	11°♏17'07	
conjunction	-429 Nov 10 j 15:17	13°♏11'59	1°46'15
minimum elong	-429 Nov 10 j 15:20	13°♏12'00	1°46'15
max. Earth dist.	-429 Nov 10 j 09:04	13°♏10'10	11.15223 AU
	-429 Nov 26 j 03:40	15°♏	
morning rise	-429 Nov 27 j 02:28	15°♏06'31	
retrograde	-428 Mar 06 j 04:20	21°♏59'52	
opposition	-428 May 15 j 18:22	18°♏43'03	1°58'06
min. Earth dist.	-428 May 16 j 00:26	18°♏41'57	9.15340 AU
direct	-428 Jul 26 j 00:15	15°♏24'34	
evening set	-428 Nov 04 j 05:04	22°♏21'20	
conjunction	-428 Nov 20 j 17:30	24°♏16'18	1°26'36
minimum elong	-428 Nov 20 j 17:33	24°♏16'19	1°26'35
max. Earth dist.	-428 Nov 20 j 09:24	24°♏13'56	11.14624 AU
morning rise	-428 Dec 07 j 05:31	26°♏11'11	
	-427 Jan 12 j 18:41	0°♐	
retrograde	-427 Mar 17 j 19:54	3°♐06'58	
	-427 May 25 j 07:43	30°℞♏	
opposition	-427 May 27 j 16:12	29°♏49'40	1°32'00
min. Earth dist.	-427 May 27 j 23:53	29°♏48'15	9.13431 AU
direct	-427 Aug 06 j 16:20	26°♏31'38	
	-427 Oct 13 j 15:25	0°♐	
evening set	-427 Nov 15 j 07:42	3°♐27'44	
conjunction	-427 Dec 01 j 20:34	5°♐23'14	1°03'37
minimum elong	-427 Dec 01 j 20:36	5°♐23'15	1°03'36
max. Earth dist.	-427 Dec 01 j 11:18	5°♐20'31	11.11508 AU
morning rise	-427 Dec 18 j 10:01	7°♐18'56	
retrograde	-426 Mar 29 j 16:27	14°♐18'45	
opposition	-426 Jun 08 j 16:05	11°♐00'41	1°02'15
min. Earth dist.	-426 Jun 09 j 00:08	10°♐59'12	9.09044 AU
direct	-426 Aug 18 j 08:29	7°♐42'53	
evening set	-426 Nov 26 j 12:09	14°♐39'47	
conjunction	-426 Dec 13 j 02:09	16°♐36'16	0°38'00
minimum elong	-426 Dec 13 j 02:10	16°♐36'16	0°38'00
max. Earth dist.	-426 Dec 12 j 17:12	16°♐33'38	11.05963 AU
morning rise	-426 Dec 29 j 17:20	18°♐33'11	
retrograde	-425 Apr 10 j 17:49	25°♐38'38	
opposition	-425 Jun 20 j 18:53	22°♐19'33	0°29'44
min. Earth dist.	-425 Jun 21 j 02:36	22°♐18'08	9.02308 AU

Attention, astronomical year style is used: The year -425 in astronomical counting style is the year 426 BCE in historical counting style.

direct	-425 Aug 30 j 01:09	19°♐01'44	
evening set	-425 Dec 07 j 20:40	26°♐01'03	
conjunction	-425 Dec 24 j 12:06	27°♐58'54	0°10'37
minimum elong	-425 Dec 24 j 12:06	27°♐58'54	0°10'37
behind sun begin	-425 Dec 24 j 06:38	27°♐57'18	
behind sun end	-425 Dec 24 j 17:34	28°♐00'30	
max. Earth dist.	-425 Dec 24 j 03:07	27°♐56'15	10.98154 AU
morning rise	-424 Jan 10 j 05:28	29°♐57'24	
	-424 Jan 10 j 14:26	0°♑	
retrograde	-424 Apr 22 j 02:40	7°♑09'58	
desc. node	-424 May 13 j 20:46	6°♑47'21	
opposition	-424 Jul 02 j 01:33	3°♑49'40	-0°04'32
min. Earth dist.	-424 Jul 02 j 09:14	3°♑48'15	8.93430 AU
direct	-424 Sep 09 j 19:58	0°♑31'32	
evening set	-424 Dec 18 j 10:50	7°♑34'55	
conjunction	-423 Jan 04 j 03:54	9°♑34'28	-0°17'45
minimum elong	-423 Jan 04 j 03:53	9°♑34'27	0°17'45
max. Earth dist.	-423 Jan 03 j 17:54	9°♑31'28	10.88319 AU
morning rise	-423 Jan 20 j 23:54	11°♑34'56	
retrograde	-423 May 04 j 17:25	18°♑56'01	
opposition	-423 Jul 14 j 13:24	15°♑34'20	-0°39'23
min. Earth dist.	-423 Jul 14 j 21:37	15°♑32'48	8.82677 AU
direct	-423 Sep 21 j 18:00	12°♑15'36	
evening set	-423 Dec 30 j 08:05	19°♑24'41	
conjunction	-422 Jan 16 j 03:13	21°♑26'16	-0°45'52
minimum elong	-422 Jan 16 j 03:11	21°♑26'15	0°45'52
max. Earth dist.	-422 Jan 15 j 17:15	21°♑23'14	10.76754 AU
morning rise	-422 Feb 02 j 02:06	23°♑28'59	
	-422 Apr 12 j 13:26	0°♒	
retrograde	-422 May 17 j 15:52	0°♒59'58	
	-422 Jun 22 j 08:07	30°℞♑	
opposition	-422 Jul 27 j 07:08	27°♑36'44	-1°13'28
min. Earth dist.	-422 Jul 27 j 15:05	27°♑35'14	8.70401 AU
direct	-422 Oct 03 j 23:14	24°♑17'10	
	-422 Dec 29 j 08:13	0°♒	
evening set	-421 Jan 11 j 14:21	1°♒33'33	
conjunction	-421 Jan 28 j 12:04	3°♒37'30	-1°12'37
minimum elong	-421 Jan 28 j 12:02	3°♒37'29	1°12'38
max. Earth dist.	-421 Jan 28 j 03:21	3°♒34'49	10.63878 AU
morning rise	-421 Feb 14 j 13:56	5°♒42'47	
retrograde	-421 May 31 j 00:55	13°♒24'35	
opposition	-421 Aug 09 j 07:17	9°♒59'45	-1°45'13
min. Earth dist.	-421 Aug 09 j 13:56	9°♒58'28	8.57120 AU
direct	-421 Oct 16 j 09:42	6°♒39'10	
evening set	-420 Jan 24 j 07:00	14°♒04'10	
	-420 Jan 31 j 20:25	15°♒	
conjunction	-420 Feb 10 j 07:38	16°♒10'44	-1°36'39
minimum elong	-420 Feb 10 j 07:36	16°♒10'43	1°36'40
max. Earth dist.	-420 Feb 10 j 00:39	16°♒08'33	10.50299 AU
morning rise	-420 Feb 27 j 12:43	18°♒18'46	
retrograde	-420 Jun 12 j 18:50	26°♒11'49	
opposition	-420 Aug 21 j 14:33	22°♒45'24	-2°12'53
min. Earth dist.	-420 Aug 21 j 19:11	22°♒44'29	8.43500 AU
direct	-420 Oct 28 j 03:15	19°♒23'36	
evening set	-419 Feb 05 j 10:56	26°♒58'10	
conjunction	-419 Feb 22 j 14:44	29°♒07'32	-1°56'31
minimum elong	-419 Feb 22 j 14:41	29°♒07'31	1°56'32
max. Earth dist.	-419 Feb 22 j 09:16	29°♒05'48	10.36734 AU
	-419 Mar 01 j 12:45	0°♓	
morning rise	-419 Mar 11 j 23:20	1°♓18'27	
retrograde	-419 Jun 26 j 21:10	9°♓22'28	

opposition	-419 Sep 04 j 04:59	5°♓54'32	-2°34'35
min. Earth dist.	-419 Sep 04 j 07:53	5°♓53'58	8.30272 AU
direct	-419 Nov 10 j 05:30	2°♓31'24	
evening set	-418 Feb 19 j 02:42	10°♓16'00	
conjunction	-418 Mar 08 j 10:10	12°♓28'14	-2°10'45
minimum elong	-418 Mar 08 j 10:08	12°♓28'14	2°10'45
max. Earth dist.	-418 Mar 08 j 06:31	12°♓27'04	10.23935 AU
morning rise	-418 Mar 25 j 22:37	14°♓42'04	
retrograde	-418 Jul 11 j 07:23	22°♓55'58	
opposition	-418 Sep 18 j 02:04	19°♓26'45	-2°48'29
min. Earth dist.	-418 Sep 18 j 03:25	19°♓26'29	8.18179 AU
direct	-418 Nov 23 j 15:58	16°♓02'10	
evening set	-417 Mar 05 j 06:02	23°♓56'41	
conjunction	-417 Mar 22 j 17:40	26°♓11'47	-2°18'01
minimum elong	-417 Mar 22 j 17:40	26°♓11'46	2°18'01
max. Earth dist.	-417 Mar 22 j 16:22	26°♓11'21	10.12634 AU
morning rise	-417 Apr 09 j 10:08	28°♓28'24	
	-417 Apr 21 j 16:11	0°♈	
retrograde	-417 Jul 25 j 23:29	6°♈50'14	
opposition	-417 Oct 02 j 05:01	3°♈20'02	-2°53'01
min. Earth dist.	-417 Oct 02 j 04:40	3°♈20'07	8.07916 AU
	-417 Nov 27 j 07:40	30°℞♓	
direct	-417 Dec 07 j 12:01	29°♓54'03	
	-417 Dec 17 j 16:30	0°♈	
evening set	-416 Mar 18 j 19:57	7°♈57'40	
conjunction	-416 Apr 05 j 12:04	10°♈15'23	-2°17'20
minimum elong	-416 Apr 05 j 12:05	10°♈15'24	2°17'20
max. Earth dist.	-416 Apr 05 j 13:45	10°♈15'56	10.03504 AU
morning rise	-416 Apr 23 j 08:24	12°♈34'29	
retrograde	-416 Aug 08 j 18:51	21°♈01'35	
opposition	-416 Oct 15 j 12:24	17°♈30'47	-2°47'12
min. Earth dist.	-416 Oct 15 j 09:58	17°♈31'17	8.00111 AU
direct	-416 Dec 20 j 16:20	14°♈03'31	
evening set	-415 Apr 02 j 18:42	22°♈14'40	
conjunction	-415 Apr 20 j 15:21	24°♈34'40	-2°08'16
minimum elong	-415 Apr 20 j 15:24	24°♈34'40	2°08'16
max. Earth dist.	-415 Apr 20 j 20:18	24°♈36'17	9.97132 AU
morning rise	-415 May 08 j 15:17	26°♈55'44	
	-415 Jun 02 j 14:09	0°♉	
retrograde	-415 Aug 23 j 15:47	5°♉24'51	
opposition	-415 Oct 29 j 22:36	1°♉53'51	-2°30'52
min. Earth dist.	-415 Oct 29 j 17:50	1°♉54'51	7.95271 AU
	-415 Nov 23 j 02:43	30°℞♈	
direct	-414 Jan 04 j 02:59	28°♈25'29	
	-414 Feb 14 j 11:05	0°♉	
evening set	-414 Apr 17 j 23:55	6°♉42'02	
conjunction	-414 May 06 j 00:39	9°♉03'40	-1°51'06
minimum elong	-414 May 06 j 00:43	9°♉03'42	1°51'05
max. Earth dist.	-414 May 06 j 08:23	9°♉06'13	9.93934 AU
morning rise	-414 May 24 j 03:28	11°♉26'00	
	-414 Jun 22 j 09:19	15°♉	
retrograde	-414 Sep 07 j 11:39	19°♉53'40	
opposition	-414 Nov 13 j 09:45	16°♉22'57	-2°04'48
min. Earth dist.	-414 Nov 13 j 03:05	16°♉24'20	7.93705 AU
	-414 Nov 30 j 10:55	15°℞♉	
direct	-413 Jan 18 j 17:22	12°♉53'41	
	-413 Mar 08 j 01:31	15°♉	
evening set	-413 May 03 j 08:43	21°♉13'09	
conjunction	-413 May 21 j 12:27	23°♉35'36	-1°26'50
minimum elong	-413 May 21 j 12:31	23°♉35'37	1°26'49
max. Earth dist.	-413 May 21 j 22:13	23°♉38'48	9.94107 AU

Attention, astronomical year style is used: The year -413 in astronomical counting style is the year 414 BCE in historical counting style.

morning rise	-413 Jun 08 j 16:54	25°♉58'16		
	-413 Jul 12 j 05:01	0°♊		
retrograde	-413 Sep 22 j 04:42	4°♊21'13		
opposition	-413 Nov 27 j 19:44	0°♊51'12	-1°30'48	
min. Earth dist.	-413 Nov 27 j 11:49	0°♊52'52	7.95517 AU	
	-413 Dec 08 j 03:57	30°℞♉		
direct	-412 Feb 02 j 10:00	27°♉21'20		
	-412 Mar 28 j 08:29	0°♊		
evening set	-412 May 17 j 17:38	5°♊41'05		
conjunction	-412 Jun 04 j 22:53	8°♊03'21	-0°57'12	
minimum elong	-412 Jun 04 j 22:56	8°♊03'22	0°57'12	
max. Earth dist.	-412 Jun 05 j 09:53	8°♊06'57	9.97634 AU	
morning rise	-412 Jun 23 j 03:30	10°♊25'23		
retrograde	-412 Oct 05 j 16:05	18°♊40'55		
opposition	-412 Dec 11 j 02:54	15°♊12'00	-0°51'23	
min. Earth dist.	-412 Dec 10 j 18:32	15°♊13'44	8.00590 AU	
direct	-411 Feb 16 j 03:36	11°♊41'51		
evening set	-411 Jun 01 j 23:22	19°♊59'20		
conjunction	-411 Jun 20 j 04:25	22°♊20'25	-0°24'21	
minimum elong	-411 Jun 20 j 04:26	22°♊20'25	0°24'21	
max. Earth dist.	-411 Jun 20 j 15:35	22°♊24'02	10.04268 AU	
morning rise	-411 Jul 08 j 07:33	24°♊40'50		
	-411 Aug 24 j 10:10	0°♋		
retrograde	-411 Oct 19 j 19:05	2°♋47'02		
	-411 Dec 16 j 23:47	30°℞♊		
opposition	-411 Dec 25 j 05:31	29°♊19'31	-0°09'28	
min. Earth dist.	-411 Dec 24 j 21:22	29°♊21'12	8.08579 AU	
direct	-410 Mar 02 j 19:33	25°♊49'29		
asc. node	-410 Mar 20 j 11:49	26°♊06'28		
	-410 May 13 j 10:51	0°♋		
evening set	-410 Jun 16 j 23:16	4°♋02'30		
conjunction	-410 Jul 05 j 02:18	6°♋21'28	0°09'29	
minimum elong	-410 Jul 05 j 02:17	6°♋21'28	0°09'30	
behind sun begin	-410 Jul 04 j 20:14	6°♋19'32		
behind sun end	-410 Jul 05 j 08:20	6°♋23'23		
max. Earth dist.	-410 Jul 05 j 12:42	6°♋24'48	10.13557 AU	
morning rise	-410 Jul 23 j 02:20	8°♋39'27		
retrograde	-410 Nov 02 j 12:23	16°♋35'12		
opposition	-409 Jan 08 j 02:21	13°♋09'18	0°32'03	
min. Earth dist.	-409 Jan 07 j 18:25	13°♋10'56	8.18966 AU	
direct	-409 Mar 17 j 07:48	9°♋39'44		
evening set	-409 Jul 01 j 14:43	17°♋46'29		
conjunction	-409 Jul 19 j 14:12	20°♋02'40	0°42'00	
minimum elong	-409 Jul 19 j 14:10	20°♋02'40	0°42'01	
max. Earth dist.	-409 Jul 19 j 23:45	20°♋05'42	10.24916 AU	
morning rise	-409 Aug 06 j 09:51	22°♋17'36		
	-409 Nov 09 j 01:38	0°♌		
retrograde	-409 Nov 15 j 21:12	0°♌02'37		
	-409 Nov 22 j 17:43	30°℞♋		
opposition	-408 Jan 21 j 16:51	26°♋38'24	1°10'39	
min. Earth dist.	-408 Jan 21 j 09:04	26°♋39'58	8.31118 AU	
direct	-408 Mar 30 j 13:01	23°♋09'38		
	-408 Jul 05 j 08:33	0°♌		
evening set	-408 Jul 14 j 19:47	1°♌08'45		
conjunction	-408 Aug 01 j 14:42	3°♌21'44	1°11'29	
minimum elong	-408 Aug 01 j 14:39	3°♌21'43	1°11'30	
max. Earth dist.	-408 Aug 01 j 23:23	3°♌24'28	10.37669 AU	
morning rise	-408 Aug 19 j 05:04	5°♌33'16		
retrograde	-408 Nov 27 j 22:08	13°♌07'49		
opposition	-407 Feb 03 j 00:31	9°♌45'16	1°44'22	
min. Earth dist.	-407 Feb 02 j 17:10	9°♌46'43	8.44328 AU	
direct	-407 Apr 13 j 10:48	6°♌17'34		
evening set	-407 Jul 28 j 13:56	14°♌08'17		
	-407 Aug 04 j 15:27	15°♌		
conjunction	-407 Aug 15 j 03:40	16°♌17'53	1°36'33	
minimum elong	-407 Aug 15 j 03:36	16°♌17'52	1°36'34	
max. Earth dist.	-407 Aug 15 j 11:26	16°♌20'17	10.51106 AU	
morning rise	-407 Sep 01 j 12:20	18°♌25'56		
retrograde	-407 Dec 10 j 14:16	25°♌50'41		
opposition	-406 Feb 16 j 01:25	22°♌29'44	2°11'49	
min. Earth dist.	-406 Feb 15 j 19:33	22°♌30'53	8.57888 AU	
direct	-406 Apr 27 j 00:52	19°♌03'16		
evening set	-406 Aug 10 j 20:43	26°♌45'12		
conjunction	-406 Aug 28 j 05:01	28°♌51'28	1°56'17	
minimum elong	-406 Aug 28 j 04:58	28°♌51'28	1°56'17	
max. Earth dist.	-406 Aug 28 j 11:05	28°♌53'20	10.64539 AU	
	-406 Sep 06 j 13:40	0°♍		
morning rise	-406 Sep 14 j 08:10	0°♍56'14		
retrograde	-406 Dec 22 j 23:05	8°♍12'11		
opposition	-405 Feb 28 j 20:10	4°♍52'41	2°32'14	
min. Earth dist.	-405 Feb 28 j 16:22	4°♍53'24	8.71132 AU	
direct	-405 May 10 j 06:59	1°♍27'31		
evening set	-405 Aug 23 j 16:11	9°♍00'42		
conjunction	-405 Sep 09 j 19:15	11°♍03'54	2°10'11	
minimum elong	-405 Sep 09 j 19:12	11°♍03'53	2°10'10	
max. Earth dist.	-405 Sep 09 j 22:41	11°♍04'56	10.77340 AU	
morning rise	-405 Sep 26 j 17:34	13°♍05'41		
retrograde	-404 Jan 04 j 00:13	20°♍14'04		
opposition	-404 Mar 12 j 09:02	16°♍55'46	2°45'18	
min. Earth dist.	-404 Mar 12 j 07:16	16°♍56'06	8.83448 AU	
direct	-404 May 22 j 05:24	13°♍31'56		
evening set	-404 Sep 04 j 01:20	20°♍56'45		
conjunction	-404 Sep 20 j 23:50	22°♍57'17	2°18'05	
minimum elong	-404 Sep 20 j 23:49	22°♍57'17	2°18'05	
max. Earth dist.	-404 Sep 21 j 00:27	22°♍57'28	10.88939 AU	
morning rise	-404 Oct 07 j 18:07	24°♍56'33		
	-404 Nov 26 j 21:30	0°♎		
retrograde	-403 Jan 14 j 19:45	1°♎58'43		
	-403 Mar 06 j 18:07	30°℞♍		
opposition	-403 Mar 24 j 16:32	28°♍41'20	2°51'02	
min. Earth dist.	-403 Mar 24 j 16:12	28°♍41'24	8.94278 AU	
direct	-403 Jun 03 j 21:38	25°♍18'48		
	-403 Aug 23 j 12:27	0°♎		
evening set	-403 Sep 16 j 01:16	2°♎35'59		
conjunction	-403 Oct 02 j 20:07	4°♎34'20	2°20'06	
minimum elong	-403 Oct 02 j 20:08	4°♎34'20	2°20'05	
max. Earth dist.	-403 Oct 02 j 18:56	4°♎33'59	10.98814 AU	
morning rise	-403 Oct 19 j 11:07	6°♎31'34		
retrograde	-402 Jan 26 j 13:49	13°♎29'04		
opposition	-402 Apr 05 j 20:04	10°♎12'20	2°49'46	
min. Earth dist.	-402 Apr 05 j 21:21	10°♎12'05	9.03129 AU	
direct	-402 Jun 16 j 06:10	6°♎51'02		
evening set	-402 Sep 27 j 17:23	14°♎01'31		
conjunction	-402 Oct 14 j 09:27	15°♎58'14	2°16'28	
minimum elong	-402 Oct 14 j 09:28	15°♎58'14	2°16'28	
max. Earth dist.	-402 Oct 14 j 06:30	15°♎57'22	11.06522 AU	
morning rise	-402 Oct 30 j 22:06	17°♎54'02		
retrograde	-401 Feb 07 j 03:34	24°♎48'28		
opposition	-401 Apr 17 j 20:38	21°♎32'08	2°41'53	
min. Earth dist.	-401 Apr 18 j 00:13	21°♎31'28	9.09644 AU	
direct	-401 Jun 28 j 07:30	18°♎11'54		
evening set	-401 Oct 09 j 03:39	25°♎16'58		

Attention, astronomical year style is used: The year -401 in astronomical counting style is the year 402 BCE in historical counting style.

conjunction	-401 Oct 25 j 17:39	27°♎12'35	2°07'35
minimum elong	-401 Oct 25 j 17:41	27°♎12'35	2°07'36
max. Earth dist.	-401 Oct 25 j 12:04	27°♎10'57	11.11802 AU
morning rise	-401 Nov 11 j 05:09	29°♎07'31	
	-401 Nov 18 j 22:42	0°♏	
retrograde	-400 Feb 18 j 16:46	6°♏00'31	
opposition	-400 Apr 28 j 19:07	2°♏44'16	2°27'57
min. Earth dist.	-400 Apr 29 j 01:07	2°♏43'10	9.13647 AU
	-400 Jun 11 j 17:54	30°℞♎	
direct	-400 Jul 09 j 06:12	29°♎24'55	
	-400 Aug 05 j 10:16	0°♏	
evening set	-400 Oct 19 j 09:37	6°♏25'51	
conjunction	-400 Nov 04 j 22:26	8°♏20'53	1°53'55
minimum elong	-400 Nov 04 j 22:28	8°♏20'54	1°53'55
max. Earth dist.	-400 Nov 04 j 14:30	8°♏18'34	11.14544 AU
morning rise	-400 Nov 21 j 09:42	10°♏15'30	
	-399 Jan 08 j 00:08	15°♏	
retrograde	-399 Mar 01 j 05:37	17°♏08'39	
	-399 Apr 24 j 22:15	15°℞♏	
opposition	-399 May 10 j 16:46	13°♏52'10	2°08'34
min. Earth dist.	-399 May 10 j 23:51	13°♏50'52	9.15061 AU
direct	-399 Jul 21 j 01:01	10°♏33'28	
	-399 Oct 07 j 07:42	15°♏	
evening set	-399 Oct 30 j 12:58	17°♏31'35	
conjunction	-399 Nov 16 j 01:29	19°♏26'33	1°36'01
minimum elong	-399 Nov 16 j 01:31	19°♏26'34	1°36'00
max. Earth dist.	-399 Nov 15 j 16:56	19°♏24'03	11.14694 AU
morning rise	-399 Dec 02 j 13:05	21°♏21'19	