

Planetary Phenomena of Saturn from -900 through -400 (UT), AstroDienst AG 14-Nov-2015 16:11, page 1

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 20:10	6°♌23'31			-895 Nov 14 j 23:59	0°♊	
opposition	-900 May 03 j 04:42	3°♌07'04	2°21'18	evening set	-895 Dec 18 j 00:58	3°♊36'30	
min. Earth dist.	-900 May 03 j 11:15	3°♌05'52	9.13634 AU				
	-900 Jun 27 j 19:15	30°♌♌		conjunction	-894 Jan 03 j 19:02	5°♊37'09	0°-18'00
direct	-900 Jul 13 j 12:58	29°♌48'13		minimum elong	-894 Jan 03 j 19:02	5°♊37'08	0°18'01
	-900 Jul 29 j 04:37	0°♌		max. Earth dist.	-894 Jan 03 j 09:56	5°♊34'24	10.81473 AU
evening set	-900 Oct 23 j 05:48	6°♌47'54		morning rise	-894 Jan 20 j 16:09	7°♊38'48	
				retrograde	-894 May 04 j 17:41	15°♊04'53	
conjunction	-900 Nov 08 j 17:49	8°♌42'54	1°47'30	opposition	-894 Jul 14 j 12:08	11°♊42'09	0°-40'-5
minimum elong	-900 Nov 08 j 17:51	8°♌42'55	1°47'30	min. Earth dist.	-894 Jul 14 j 19:18	11°♊40'48	8.75553 AU
max. Earth dist.	-900 Nov 08 j 09:41	8°♌40'31	11.13651 AU	direct	-894 Sep 21 j 12:29	8°♊22'43	
morning rise	-900 Nov 25 j 04:52	10°♌37'40		evening set	-894 Dec 30 j 02:12	15°♊35'30	
	-899 Jan 07 j 02:29	15°♌					
retrograde	-899 Mar 05 j 11:36	17°♌33'07		conjunction	-893 Jan 15 j 22:34	17°♊38'20	0°-46'-37
	-899 May 05 j 02:14	15°♌♌		minimum elong	-893 Jan 15 j 22:32	17°♊38'19	0°46'38
opposition	-899 May 15 j 03:28	14°♌16'14	1°59'38	max. Earth dist.	-893 Jan 15 j 14:20	17°♊35'49	10.69468 AU
min. Earth dist.	-899 May 15 j 10:34	14°♌14'56	9.13251 AU	morning rise	-893 Feb 01 j 22:41	19°♊42'22	
direct	-899 Jul 25 j 07:38	10°♌57'57		retrograde	-893 May 17 j 21:55	27°♊18'29	
	-899 Oct 07 j 05:14	15°♌		opposition	-893 Jul 27 j 09:08	23°♊54'05	-1°-14'-49
evening set	-899 Nov 03 j 09:10	17°♌55'52		min. Earth dist.	-893 Jul 27 j 15:03	23°♊52'57	8.63068 AU
				direct	-893 Oct 03 j 19:42	20°♊33'41	
conjunction	-899 Nov 19 j 21:27	19°♌51'10	1°27'47	evening set	-892 Jan 11 j 12:35	27°♊53'56	
minimum elong	-899 Nov 19 j 21:29	19°♌51'11	1°27'45				
max. Earth dist.	-899 Nov 19 j 13:00	19°♌48'41	11.11974 AU	conjunction	-892 Jan 28 j 11:29	29°♊59'11	-1°-13'-48
morning rise	-899 Dec 06 j 09:24	21°♌46'27		minimum elong	-892 Jan 28 j 11:27	29°♊59'10	1°13'50
retrograde	-898 Mar 17 j 08:25	28°♌44'58		max. Earth dist.	-892 Jan 28 j 03:55	29°♊56'50	10.56608 AU
opposition	-898 May 27 j 03:23	25°♌27'25	1°33'23				
min. Earth dist.	-898 May 27 j 11:05	25°♌26'00	9.10200 AU	morning rise	-892 Feb 14 j 14:55	2°♊05'50	
direct	-898 Aug 06 j 00:59	22°♌09'27		retrograde	-892 May 30 j 10:12	9°♊52'38	
evening set	-898 Nov 14 j 13:31	29°♌07'12		opposition	-892 Aug 08 j 12:42	6°♊26'37	-1°-47'-4
	-898 Nov 22 j 03:15	0°♊		min. Earth dist.	-892 Aug 08 j 17:44	6°♊25'38	8.50023 AU
				direct	-892 Oct 15 j 08:57	3°♊05'04	
conjunction	-898 Dec 01 j 02:29	1°♊03'15	1°04'36	evening set	-891 Jan 23 j 09:34	10°♊34'00	
minimum elong	-898 Dec 01 j 02:31	1°♊03'15	1°04'34				
max. Earth dist.	-898 Nov 30 j 16:45	1°♊00'23	11.07674 AU	conjunction	-891 Feb 09 j 11:29	12°♊41'51	-1°-38'-7
morning rise	-898 Dec 17 j 16:04	2°♊59'33		minimum elong	-891 Feb 09 j 11:27	12°♊41'50	1°38'09
retrograde	-897 Mar 29 j 06:48	10°♊02'44		max. Earth dist.	-891 Feb 09 j 05:42	12°♊40'02	10.43463 AU
opposition	-897 Jun 08 j 05:34	6°♊44'15	1°03'18	morning rise	-891 Feb 26 j 18:22	14°♊51'15	
min. Earth dist.	-897 Jun 08 j 14:18	6°♊42'38	9.04611 AU		-891 Feb 27 j 22:52	15°♊	
direct	-897 Aug 17 j 16:10	3°♊26'20		retrograde	-891 Jun 13 j 05:56	22°♊48'54	
evening set	-897 Nov 25 j 20:28	10°♊25'31		opposition	-891 Aug 21 j 22:49	19°♊21'19	-2°-14'-59
				min. Earth dist.	-891 Aug 22 j 02:27	19°♊20'36	8.37017 AU
conjunction	-897 Dec 12 j 10:36	12°♊22'43	0°38'40	direct	-891 Oct 28 j 07:03	15°♊58'31	
minimum elong	-897 Dec 12 j 10:37	12°♊22'44	0°38'39	evening set	-890 Feb 05 j 17:53	23°♊36'58	
max. Earth dist.	-897 Dec 11 j 23:41	12°♊19'29	11.00959 AU				
morning rise	-897 Dec 29 j 02:27	14°♊20'27		conjunction	-890 Feb 22 j 23:17	25°♊47'34	-1°-58'-4
retrograde	-896 Apr 09 j 11:08	21°♊29'54		minimum elong	-890 Feb 22 j 23:14	25°♊47'33	1°58'06
opposition	-896 Jun 19 j 11:19	18°♊10'12	0°30'18	max. Earth dist.	-890 Feb 22 j 20:05	25°♊46'33	10.30658 AU
min. Earth dist.	-896 Jun 19 j 20:36	18°♊08'29	8.96751 AU	morning rise	-890 Mar 12 j 09:37	27°♊59'45	
direct	-896 Aug 28 j 12:30	14°♊52'01			-890 Mar 28 j 22:29	0°♋	
evening set	-896 Dec 06 j 07:35	21°♊54'11		retrograde	-890 Jun 27 j 10:19	6°♋07'45	
				opposition	-890 Sep 04 j 15:41	2°♋38'49	-2°-36'-38
conjunction	-896 Dec 22 j 23:30	23°♊52'57	0°10'51	min. Earth dist.	-890 Sep 04 j 17:10	2°♋38'31	8.24692 AU
minimum elong	-896 Dec 22 j 23:30	23°♊52'57	0°10'50		-890 Oct 12 j 13:17	30°♌♌	
behind sun begin	-896 Dec 22 j 18:08	23°♊51'22		direct	-890 Nov 10 j 13:22	29°♌14'44	
behind sun end	-896 Dec 23 j 04:53	23°♊54'32			-890 Dec 09 j 02:49	0°♋	
max. Earth dist.	-896 Dec 22 j 13:08	23°♊49'51	10.92113 AU	evening set	-889 Feb 19 j 13:41	7°♋02'55	
morning rise	-895 Jan 08 j 17:54	25°♊52'30					
	-895 Feb 16 j 13:01	0°♊		conjunction	-889 Mar 08 j 22:54	9°♋16'18	-2°-12'-8
retrograde	-895 Apr 21 j 23:03	3°♊09'38		minimum elong	-889 Mar 08 j 22:52	9°♋16'18	2°12'09
desc. node	-895 May 14 j 01:27	2°♊46'16		max. Earth dist.	-889 Mar 08 j 22:47	9°♋16'16	10.18870 AU
	-895 Jun 29 j 07:35	30°♌♌		morning rise	-889 Mar 26 j 12:51	11°♋31'15	
opposition	-895 Jul 01 j 21:15	29°♊48'29	0°-4'-34	retrograde	-889 Jul 11 j 22:58	19°♋48'20	
min. Earth dist.	-895 Jul 02 j 05:45	29°♊46'54	8.86937 AU	opposition	-889 Sep 18 j 14:48	16°♋18'17	-2°-50'-10
direct	-895 Sep 09 j 10:44	26°♊29'48		min. Earth dist.	-889 Sep 18 j 13:43	16°♋18'30	8.13722 AU

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

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

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

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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 03:58	27° Π 26'58	10.14302 AU	conjunction	-846 Sep 15 j 18:16	14° Π 00'43	2°16'08
morning rise	-852 Jul 16 j 19:09	29° Π 41'56		minimum elong	-846 Sep 15 j 18:15	14° Π 00'42	2°16'08
	-852 Jul 19 j 04:47	0° Σ		max. Earth dist.	-846 Sep 15 j 17:38	14° Π 00'31	10.86359 AU
asc. node	-852 Aug 02 j 11:42	1° Σ 44'18		morning rise	-846 Oct 02 j 13:06	16° Π 00'24	
retrograde	-852 Oct 27 j 05:26	7° Σ 37'23		retrograde	-845 Jan 09 j 14:56	23° Π 03'38	
opposition	-851 Jan 01 j 19:55	4° Σ 11'25	0°16'41	opposition	-845 Mar 19 j 09:40	19° Π 45'50	2°50'17
min. Earth dist.	-851 Jan 01 j 12:49	4° Σ 12'52	8.19427 AU	min. Earth dist.	-845 Mar 19 j 09:53	19° Π 45'48	8.91559 AU
direct	-851 Mar 11 j 00:51	0° Σ 41'49		direct	-845 May 29 j 14:44	16° Π 22'46	
evening set	-851 Jun 25 j 06:19	8° Σ 47'55		evening set	-845 Sep 10 j 20:22	23° Π 41'38	
conjunction	-851 Jul 13 j 06:23	11° Σ 04'11	0°30'00	conjunction	-845 Sep 27 j 15:42	25° Π 40'26	2°20'41
minimum elong	-851 Jul 13 j 06:22	11° Σ 04'11	0°30'01	minimum elong	-845 Sep 27 j 15:41	25° Π 40'26	2°20'40
max. Earth dist.	-851 Jul 13 j 14:49	11° Σ 06'52	10.25077 AU	max. Earth dist.	-845 Sep 27 j 14:01	25° Π 39'56	10.96016 AU
morning rise	-851 Jul 31 j 02:40	13° Σ 19'12		morning rise	-845 Oct 14 j 06:58	27° Π 38'05	
retrograde	-851 Nov 09 j 14:28	21° Σ 04'01			-845 Nov 04 j 12:50	0° Ω	
opposition	-850 Jan 15 j 09:46	17° Σ 39'34	0°56'24	retrograde	-844 Jan 21 j 09:37	4° Ω 36'51	
min. Earth dist.	-850 Jan 15 j 02:52	17° Σ 40'58	8.30968 AU	opposition	-844 Mar 30 j 14:09	1° Ω 19'49	2°52'04
direct	-850 Mar 25 j 05:40	14° Σ 10'34		min. Earth dist.	-844 Mar 30 j 15:50	1° Ω 19'30	9.00321 AU
evening set	-850 Jul 09 j 11:19	22° Σ 09'20			-844 Apr 17 j 22:26	30° \mathbb{R} Π	
conjunction	-850 Jul 27 j 07:03	24° Σ 22'32	1°00'41	direct	-844 Jun 09 j 22:34	27° Π 58'04	
minimum elong	-850 Jul 27 j 07:00	24° Σ 22'31	1°00'41		-844 Jul 31 j 09:02	0° Ω	
max. Earth dist.	-850 Jul 27 j 14:36	24° Σ 24'54	10.37211 AU	evening set	-844 Sep 21 j 14:09	5° Ω 10'28	
morning rise	-850 Aug 13 j 22:10	26° Σ 34'16		conjunction	-844 Oct 08 j 06:23	7° Ω 07'34	2°19'29
	-850 Sep 12 j 16:46	0° Ω		minimum elong	-844 Oct 08 j 06:24	7° Ω 07'34	2°19'29
retrograde	-850 Nov 22 j 14:39	4° Ω 08'44		max. Earth dist.	-844 Oct 08 j 03:16	7° Ω 06'39	11.03770 AU
opposition	-849 Jan 28 j 16:53	0° Ω 45'49	1°31'59	morning rise	-844 Oct 24 j 19:08	9° Ω 03'43	
min. Earth dist.	-849 Jan 28 j 10:48	0° Ω 47'02	8.43552 AU	retrograde	-843 Feb 01 j 00:47	15° Ω 59'30	
	-849 Feb 07 j 09:26	30° \mathbb{R} Σ		opposition	-843 Apr 11 j 15:56	12° Ω 42'57	2°47'03
direct	-849 Apr 08 j 03:18	27° Σ 17'41		min. Earth dist.	-843 Apr 11 j 19:42	12° Ω 42'15	9.07025 AU
	-849 Jun 05 j 06:41	0° Ω		direct	-843 Jun 22 j 02:31	9° Ω 22'21	
evening set	-849 Jul 23 j 05:31	5° Ω 08'24		evening set	-843 Oct 03 j 01:49	16° Ω 29'19	
conjunction	-849 Aug 09 j 20:10	7° Ω 18'18	1°27'29	conjunction	-843 Oct 19 j 15:45	18° Ω 25'13	2°12'51
minimum elong	-849 Aug 09 j 20:07	7° Ω 18'17	1°27'30	minimum elong	-843 Oct 19 j 15:47	18° Ω 25'14	2°12'51
max. Earth dist.	-849 Aug 10 j 02:33	7° Ω 20'17	10.50025 AU	max. Earth dist.	-843 Oct 19 j 10:15	18° Ω 23'37	11.09352 AU
morning rise	-849 Aug 27 j 05:42	9° Ω 26'41		morning rise	-843 Nov 05 j 03:10	20° Ω 20'26	
	-849 Oct 19 j 23:03	15° Ω		retrograde	-842 Feb 12 j 15:11	27° Ω 14'42	
retrograde	-849 Dec 05 j 06:57	16° Ω 51'33		opposition	-842 Apr 23 j 15:44	23° Ω 58'20	2°35'41
	-848 Jan 21 j 22:29	15° \mathbb{R} Ω		min. Earth dist.	-842 Apr 23 j 21:15	23° Ω 57'19	9.11429 AU
opposition	-848 Feb 10 j 17:39	13° Ω 30'09	2°01'54	direct	-842 Jul 04 j 02:12	20° Ω 38'44	
min. Earth dist.	-848 Feb 10 j 13:18	13° Ω 31'00	8.56501 AU	evening set	-842 Oct 14 j 09:11	27° Ω 41'24	
direct	-848 Apr 20 j 17:09	10° Ω 03'07		conjunction	-842 Oct 30 j 21:46	29° Ω 36'38	2°01'10
	-848 Jul 11 j 09:18	15° Ω		minimum elong	-842 Oct 30 j 21:48	29° Ω 36'39	2°01'10
evening set	-848 Aug 04 j 12:39	17° Ω 45'27		max. Earth dist.	-842 Oct 30 j 14:40	29° Ω 34'34	11.12558 AU
conjunction	-848 Aug 21 j 21:49	19° Ω 52'07	1°49'22		-842 Nov 03 j 05:34	0° \mathbb{M}	
minimum elong	-848 Aug 21 j 21:46	19° Ω 52'06	1°49'22	morning rise	-842 Nov 16 j 08:41	1° \mathbb{M} 31'26	
max. Earth dist.	-848 Aug 22 j 02:01	19° Ω 53'24	10.62868 AU	retrograde	-841 Feb 24 j 04:42	8° \mathbb{M} 25'43	
morning rise	-848 Sep 08 j 01:50	21° Ω 57'14		opposition	-841 May 05 j 14:26	5° \mathbb{M} 09'11	2°18'31
retrograde	-848 Dec 16 j 16:10	29° Ω 13'35		min. Earth dist.	-841 May 05 j 20:42	5° \mathbb{M} 08'03	9.13359 AU
opposition	-847 Feb 22 j 12:19	25° Ω 53'36	2°25'12	direct	-841 Jul 15 j 22:28	1° \mathbb{M} 50'23	
min. Earth dist.	-847 Feb 22 j 09:58	25° Ω 54'03	8.69186 AU	evening set	-841 Oct 25 j 13:47	8° \mathbb{M} 50'02	
direct	-847 May 03 j 22:34	22° Ω 27'49		conjunction	-841 Nov 11 j 01:58	10° \mathbb{M} 45'07	1°44'56
evening set	-847 Aug 17 j 08:58	0° \mathbb{M} 01'52		minimum elong	-841 Nov 11 j 02:00	10° \mathbb{M} 45'08	1°44'56
	-847 Aug 17 j 02:40	0° \mathbb{M}		max. Earth dist.	-841 Nov 10 j 18:24	10° \mathbb{M} 42'54	11.13244 AU
conjunction	-847 Sep 03 j 12:49	2° \mathbb{M} 05'30	2°05'41	morning rise	-841 Nov 27 j 13:04	12° \mathbb{M} 39'58	
minimum elong	-847 Sep 03 j 12:46	2° \mathbb{M} 05'30	2°05'41		-841 Dec 18 j 19:20	15° \mathbb{M}	
max. Earth dist.	-847 Sep 03 j 14:21	2° \mathbb{M} 05'58	10.75155 AU	retrograde	-840 Mar 06 j 22:46	19° \mathbb{M} 35'51	
morning rise	-847 Sep 20 j 11:54	4° \mathbb{M} 07'42		opposition	-840 May 16 j 13:30	16° \mathbb{M} 18'54	1°56'12
retrograde	-847 Dec 28 j 17:05	11° \mathbb{M} 16'48		min. Earth dist.	-840 May 16 j 20:16	16° \mathbb{M} 17'39	9.12710 AU
opposition	-846 Mar 07 j 01:23	7° \mathbb{M} 58'01	2°41'22		-840 Jun 04 j 00:56	15° \mathbb{R} \mathbb{M}	
min. Earth dist.	-846 Mar 07 j 00:38	7° \mathbb{M} 58'10	8.81043 AU	direct	-840 Jul 26 j 17:26	13° \mathbb{M} 00'39	
direct	-846 May 16 j 22:09	4° \mathbb{M} 33'34			-840 Sep 15 j 06:39	15° \mathbb{M}	
evening set	-846 Aug 29 j 19:05	11° \mathbb{M} 59'44		evening set	-840 Nov 04 j 17:24	19° \mathbb{M} 58'39	

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

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

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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 10:36	30°♃		morning rise	-810 Dec 14 j 17:01	0°♃35'42	
opposition	-815 Mar 25 j 20:00	26°♃42'47	2°52'04	retrograde	-809 Mar 26 j 01:37	7°♃37'59	
min. Earth dist.	-815 Mar 25 j 23:00	26°♃42'13	8.96389 AU	opposition	-809 Jun 04 j 23:49	4°♃19'10	1°12'06
direct	-815 Jun 05 j 02:14	23°♃20'27		min. Earth dist.	-809 Jun 05 j 07:30	4°♃17'45	9.04312 AU
	-815 Sep 11 j 20:14	0°♃		direct	-809 Aug 14 j 15:49	1°♃00'39	
evening set	-815 Sep 17 j 01:21	0°♃35'53		evening set	-809 Nov 22 j 21:12	8°♃00'01	
conjunction	-815 Oct 03 j 18:45	2°♃33'44	2°20'36	conjunction	-809 Dec 09 j 11:09	9°♃57'04	0°46'10
minimum elong	-815 Oct 03 j 18:45	2°♃33'44	2°20'36	minimum elong	-809 Dec 09 j 11:11	9°♃57'04	0°46'09
max. Earth dist.	-815 Oct 03 j 13:58	2°♃32'19	11.00037 AU	max. Earth dist.	-809 Dec 09 j 02:03	9°♃54'22	11.01155 AU
morning rise	-815 Oct 20 j 08:41	4°♃30'35		morning rise	-809 Dec 26 j 02:15	11°♃54'32	
retrograde	-814 Jan 27 j 11:41	11°♃27'50		retrograde	-808 Apr 06 j 05:52	19°♃02'31	
opposition	-814 Apr 06 j 23:00	8°♃10'57	2°49'55	opposition	-808 Jun 16 j 04:43	15°♃42'42	0°39'49
min. Earth dist.	-814 Apr 07 j 03:05	8°♃10'12	9.03522 AU	min. Earth dist.	-808 Jun 16 j 12:26	15°♃41'16	8.97485 AU
direct	-814 Jun 17 j 10:04	4°♃49'38		direct	-808 Aug 25 j 08:52	12°♃24'09	
evening set	-814 Sep 28 j 15:43	11°♃59'14		evening set	-808 Dec 03 j 07:13	19°♃25'56	
conjunction	-814 Oct 15 j 06:43	13°♃55'44	2°16'15	conjunction	-808 Dec 19 j 22:36	21°♃24'22	0°18'47
minimum elong	-814 Oct 15 j 06:44	13°♃55'44	2°16'15	minimum elong	-808 Dec 19 j 22:37	21°♃24'22	0°18'46
max. Earth dist.	-814 Oct 15 j 01:01	13°♃54'03	11.06096 AU	max. Earth dist.	-808 Dec 19 j 12:57	21°♃21'30	10.93350 AU
morning rise	-814 Oct 31 j 18:42	15°♃51'25		morning rise	-807 Jan 05 j 16:13	23°♃23'31	
retrograde	-813 Feb 08 j 03:40	22°♃46'34			-807 Mar 21 j 08:51	0°♃	
opposition	-813 Apr 18 j 23:42	19°♃29'47	2°41'13	retrograde	-807 Apr 18 j 14:21	0°♃38'41	
min. Earth dist.	-813 Apr 19 j 04:40	19°♃28'52	9.08454 AU		-807 May 17 j 05:45	30°♃	
direct	-813 Jun 29 j 11:44	16°♃09'22		opposition	-807 Jun 28 j 13:40	27°♃17'40	0°05'20
evening set	-813 Oct 10 j 00:56	23°♃14'12		min. Earth dist.	-807 Jun 28 j 21:36	27°♃16'11	8.88696 AU
conjunction	-813 Oct 26 j 14:15	25°♃09'51	2°06'40	desc. node	-807 Aug 24 j 17:13	24°♃06'47	
minimum elong	-813 Oct 26 j 14:17	25°♃09'51	2°06'40	direct	-807 Sep 06 j 06:01	23°♃58'51	
max. Earth dist.	-813 Oct 26 j 07:41	25°♃07'55	11.09880 AU	evening set	-807 Dec 05 j 16:09	0°♃	
morning rise	-813 Nov 12 j 01:14	27°♃04'54			-807 Dec 14 j 22:58	1°♃04'41	
	-813 Dec 09 j 00:33	0°♃		conjunction	-807 Dec 31 j 16:14	3°♃04'51	0°-9'-54
retrograde	-812 Feb 19 j 17:50	3°♃59'28		minimum elong	-807 Dec 31 j 16:14	3°♃04'51	0°09'55
opposition	-812 Apr 29 j 23:10	0°♃42'33	2°26'28	behind sun begin	-807 Dec 31 j 10:30	3°♃03'09	
min. Earth dist.	-812 Apr 30 j 05:44	0°♃41'20	9.11035 AU	behind sun end	-807 Dec 31 j 21:58	3°♃06'34	
	-812 May 09 j 16:16	30°♃		max. Earth dist.	-807 Dec 31 j 07:02	3°♃02'06	10.83718 AU
direct	-812 Jul 10 j 08:26	27°♃22'52		morning rise	-806 Jan 17 j 12:35	5°♃05'58	
	-812 Sep 07 j 02:14	0°♃		retrograde	-806 May 01 j 07:30	12°♃29'41	
evening set	-812 Oct 20 j 06:47	4°♃24'12		opposition	-806 Jul 11 j 03:22	9°♃07'20	0°-30'-7
conjunction	-812 Nov 05 j 19:07	6°♃19'29	1°52'17	min. Earth dist.	-806 Jul 11 j 10:36	9°♃05'58	8.78272 AU
minimum elong	-812 Nov 05 j 19:09	6°♃19'30	1°52'18	direct	-806 Sep 18 j 07:53	5°♃48'02	
max. Earth dist.	-812 Nov 05 j 10:42	6°♃17'01	11.11288 AU	evening set	-806 Dec 26 j 21:56	12°♃59'25	
morning rise	-812 Nov 22 j 06:10	8°♃14'27		conjunction	-805 Jan 12 j 17:32	15°♃01'39	0°-38'-39
	-811 Feb 16 j 02:44	15°♃		minimum elong	-805 Jan 12 j 17:30	15°♃01'38	0°38'40
retrograde	-811 Mar 02 j 09:21	15°♃10'00		max. Earth dist.	-805 Jan 12 j 10:07	14°♃59'23	10.72627 AU
	-811 Mar 16 j 18:24	15°♃		morning rise	-805 Jan 29 j 16:41	17°♃05'02	
opposition	-811 May 11 j 22:18	11°♃52'41	2°06'14	retrograde	-805 May 14 j 09:25	24°♃38'24	
min. Earth dist.	-811 May 12 j 06:12	11°♃51'14	9.11202 AU	opposition	-805 Jul 23 j 22:59	21°♃14'37	-1°-5'-12
direct	-811 Jul 22 j 04:06	8°♃33'33		min. Earth dist.	-805 Jul 24 j 04:27	21°♃13'35	8.66632 AU
	-811 Oct 26 j 15:45	15°♃		direct	-805 Sep 30 j 13:14	17°♃54'41	
evening set	-811 Oct 31 j 10:48	15°♃32'44		evening set	-804 Jan 08 j 05:46	25°♃12'59	
conjunction	-811 Nov 16 j 23:01	17°♃28'10	1°33'40	conjunction	-804 Jan 25 j 03:54	27°♃17'31	-1°-6'-21
minimum elong	-811 Nov 16 j 23:04	17°♃28'11	1°33'39	minimum elong	-804 Jan 25 j 03:52	27°♃17'30	1°06'22
max. Earth dist.	-811 Nov 16 j 13:34	17°♃25'24	11.10279 AU	max. Earth dist.	-804 Jan 24 j 22:16	27°♃15'46	10.60538 AU
morning rise	-811 Dec 03 j 10:55	19°♃23'32		morning rise	-804 Feb 11 j 06:08	29°♃23'22	
retrograde	-810 Mar 14 j 02:39	26°♃21'39			-804 Feb 16 j 08:13	0°≈	
opposition	-810 May 23 j 22:07	23°♃03'41	1°41'12	retrograde	-804 May 26 j 19:22	7°≈07'11	
min. Earth dist.	-810 May 24 j 06:16	23°♃02'11	9.08940 AU	opposition	-804 Aug 05 j 00:58	3°≈41'57	-1°-38'-16
direct	-810 Aug 02 j 21:47	19°♃44'57		min. Earth dist.	-804 Aug 05 j 04:36	3°≈41'14	8.54273 AU
evening set	-810 Nov 11 j 14:57	26°♃43'29		direct	-804 Oct 12 j 01:41	0°≈21'09	
conjunction	-810 Nov 28 j 03:50	28°♃39'30	1°11'24	evening set	-803 Jan 19 j 23:58	7°≈47'36	
minimum elong	-810 Nov 28 j 03:52	28°♃39'30	1°11'22	conjunction	-803 Feb 06 j 00:53	9°≈54'37	-1°-31'-34
max. Earth dist.	-810 Nov 27 j 18:49	28°♃36'50	11.06865 AU	minimum elong	-803 Feb 06 j 00:50	9°≈54'37	1°31'36
	-810 Dec 09 j 13:54	0°♃		max. Earth dist.	-803 Feb 05 j 20:22	9°≈53'13	10.47992 AU

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

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

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

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

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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		retrograde	-748 Apr 20 j 02:59	2°♄46'52	
evening set	-754 Oct 11 j 09:53	25°♄17'55			-748 Jun 22 j 09:00	30°♄♂	
				opposition	-748 Jun 30 j 01:44	29°♄25'39	0°00'28
conjunction	-754 Oct 27 j 23:04	27°♄13'29	2°04'48	min. Earth dist.	-748 Jun 30 j 09:58	29°♄24'07	8.87280 AU
minimum elong	-754 Oct 27 j 23:06	27°♄13'30	2°04'47	desc. node	-748 Jul 05 j 00:51	29°♄03'24	
max. Earth dist.	-754 Oct 27 j 15:24	27°♄11'15	11.10383 AU	direct	-748 Sep 07 j 17:48	26°♄06'42	
morning rise	-754 Nov 13 j 10:08	29°♄08'30			-748 Nov 17 j 06:17	0°♄	
	-754 Nov 20 j 23:47	0°♄		evening set	-748 Dec 16 j 09:31	3°♄13'15	
retrograde	-753 Feb 21 j 03:33	6°♄03'02					
opposition	-753 May 02 j 09:38	2°♄46'10	2°23'48	conjunction	-747 Jan 02 j 03:09	5°♄13'42	0°-13'-52
min. Earth dist.	-753 May 02 j 17:09	2°♄44'47	9.11353 AU	minimum elong	-747 Jan 02 j 03:08	5°♄13'42	0°13'53
	-753 Jun 16 j 00:45	30°♄♂		behind sun begin	-747 Jan 01 j 23:22	5°♄12'35	
direct	-753 Jul 12 j 19:07	29°♄26'37		behind sun end	-747 Jan 02 j 06:53	5°♄14'49	
	-753 Aug 08 j 05:23	0°♄		max. Earth dist.	-747 Jan 01 j 18:28	5°♄11'06	10.82174 AU
evening set	-753 Oct 22 j 15:27	6°♄27'39		morning rise	-747 Jan 18 j 23:43	7°♄15'06	
				retrograde	-747 May 02 j 21:12	14°♄40'00	
conjunction	-753 Nov 08 j 03:46	8°♄22'56	1°49'49	opposition	-747 Jul 12 j 16:09	11°♄17'25	0°-34'-59
minimum elong	-753 Nov 08 j 03:48	8°♄22'57	1°49'49	min. Earth dist.	-747 Jul 12 j 22:56	11°♄16'08	8.76612 AU
max. Earth dist.	-753 Nov 07 j 18:36	8°♄20'15	11.11426 AU	direct	-747 Sep 19 j 18:54	7°♄57'58	
morning rise	-753 Nov 24 j 14:59	10°♄17'56		evening set	-747 Dec 28 j 09:36	15°♄10'17	
	-752 Jan 10 j 11:31	15°♄					
retrograde	-752 Mar 03 j 18:30	17°♄13'39		conjunction	-746 Jan 14 j 05:31	17°♄12'49	0°-42'-31
	-752 Apr 28 j 15:27	15°♄♄		minimum elong	-746 Jan 14 j 05:29	17°♄12'48	0°42'32
opposition	-752 May 13 j 08:47	13°♄56'19	2°02'53	max. Earth dist.	-746 Jan 13 j 22:14	17°♄10'35	10.70858 AU
min. Earth dist.	-752 May 13 j 16:49	13°♄54'51	9.11145 AU	morning rise	-746 Jan 31 j 04:57	19°♄16'30	
direct	-752 Jul 23 j 13:48	10°♄37'17		retrograde	-746 May 15 j 23:51	26°♄51'14	
	-752 Oct 08 j 22:08	15°♄		opposition	-746 Jul 25 j 12:36	23°♄27'11	-1°-9'-51
evening set	-752 Nov 01 j 19:19	17°♄36'22		min. Earth dist.	-746 Jul 25 j 17:47	23°♄26'12	8.64780 AU
				direct	-746 Oct 02 j 01:32	20°♄07'03	
conjunction	-752 Nov 18 j 07:43	19°♄31'51	1°30'40	evening set	-745 Jan 09 j 18:43	27°♄26'29	
minimum elong	-752 Nov 18 j 07:46	19°♄31'52	1°30'39				
max. Earth dist.	-752 Nov 17 j 22:34	19°♄29'10	11.10039 AU	conjunction	-745 Jan 26 j 17:03	29°♄31'21	-1°-9'-56
morning rise	-752 Dec 04 j 19:43	21°♄27'18		minimum elong	-745 Jan 26 j 17:01	29°♄31'21	1°09'57
retrograde	-751 Mar 15 j 13:48	28°♄25'50		max. Earth dist.	-745 Jan 26 j 10:47	29°♄29'25	10.58615 AU
opposition	-751 May 25 j 08:49	25°♄07'48	1°37'16		-745 Jan 30 j 13:39	0°♄	
min. Earth dist.	-751 May 25 j 16:40	25°♄06'21	9.08506 AU	morning rise	-745 Feb 12 j 19:40	1°♄37'34	
direct	-751 Aug 04 j 08:33	21°♄49'07		retrograde	-745 May 29 j 12:07	9°♄22'51	
evening set	-751 Nov 12 j 23:44	28°♄47'43		opposition	-745 Aug 07 j 15:38	5°♄57'21	-1°-42'-28
	-751 Nov 23 j 07:51	0°♄♂		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	
conjunction	-751 Nov 29 j 12:48	0°♄43'52	1°07'59	evening set	-744 Jan 22 j 14:16	10°♄04'04	
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	conjunction	-744 Feb 08 j 15:25	12°♄11'27	-1°-34'-41
morning rise	-751 Dec 16 j 02:10	2°♄40'12		minimum elong	-744 Feb 08 j 15:22	12°♄11'26	1°34'42
retrograde	-750 Mar 27 j 13:27	9°♄43'04		max. Earth dist.	-744 Feb 08 j 10:27	12°♄09'53	10.46005 AU
opposition	-750 Jun 06 j 10:47	6°♄24'10	1°07'43	morning rise	-744 Feb 25 j 21:26	14°♄20'21	
min. Earth dist.	-750 Jun 06 j 18:54	6°♄22'40	9.03520 AU		-744 Mar 02 j 07:40	15°♄	
direct	-750 Aug 16 j 00:58	3°♄05'37		retrograde	-744 Jun 11 j 07:39	22°♄16'19	
evening set	-750 Nov 24 j 06:27	10°♄05'17		opposition	-744 Aug 20 j 01:15	18°♄49'27	-2°-11'00
				min. Earth dist.	-744 Aug 20 j 03:59	18°♄48'54	8.39790 AU
conjunction	-750 Dec 10 j 20:30	12°♄02'30	0°42'26	direct	-744 Oct 26 j 10:29	15°♄27'21	
minimum elong	-750 Dec 10 j 20:32	12°♄02'30	0°42'25	evening set	-743 Feb 03 j 20:56	23°♄04'15	
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		conjunction	-743 Feb 21 j 01:24	25°♄14'17	-1°-55'-15
retrograde	-749 Apr 08 j 16:08	21°♄08'56		minimum elong	-743 Feb 21 j 01:22	25°♄14'16	1°55'17
opposition	-749 Jun 18 j 16:11	17°♄48'58	0°35'06	max. Earth dist.	-743 Feb 20 j 22:47	25°♄13'27	10.33641 AU
min. Earth dist.	-749 Jun 19 j 00:46	17°♄47'22	8.96361 AU	morning rise	-743 Mar 10 j 10:55	27°♄25'54	
direct	-749 Aug 27 j 18:48	14°♄30'20			-743 Mar 31 j 22:26	0°♄	
evening set	-749 Dec 05 j 17:01	21°♄32'40		retrograde	-743 Jun 25 j 10:47	5°♄32'07	
				opposition	-743 Sep 02 j 17:29	2°♄03'58	-2°-33'-32
conjunction	-749 Dec 22 j 08:36	23°♄31'19	0°14'51	min. Earth dist.	-743 Sep 02 j 18:29	2°♄03'46	8.27840 AU
minimum elong	-749 Dec 22 j 08:36	23°♄31'19	0°14'51		-743 Sep 30 j 14:55	30°♄♂	
behind sun begin	-749 Dec 22 j 05:40	23°♄30'27		direct	-743 Nov 08 j 16:07	28°♄40'43	
behind sun end	-749 Dec 22 j 11:32	23°♄32'11			-743 Dec 16 j 19:57	0°♄	
max. Earth dist.	-749 Dec 21 j 22:29	23°♄28'18	10.92080 AU	evening set	-742 Feb 17 j 14:59	6°♄27'03	
morning rise	-748 Jan 08 j 02:32	25°♄30'41					
	-748 Feb 20 j 00:22	0°♄		conjunction	-742 Mar 06 j 23:10	8°♄39'47	-2°-10'-9

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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	direct	-736 Jan 31 j 23:14	23°♄31'15	
max. Earth dist.	-742 Mar 06 j 23:32	8°♄39'54	10.22153 AU		-736 May 01 j 16:57	0°♄	
morning rise	-742 Mar 24 j 12:13	10°♄54'04		evening set	-736 May 16 j 07:20	1°♄49'23	
retrograde	-742 Jul 09 j 21:09	19°♄09'19					
opposition	-742 Sep 16 j 15:46	15°♄40'05	-2°-48'-12	conjunction	-736 Jun 03 j 12:18	4°♄11'04	0°-59'-42
min. Earth dist.	-742 Sep 16 j 14:29	15°♄40'20	8.17080 AU	minimum elong	-736 Jun 03 j 12:21	4°♄11'05	0°59'43
direct	-742 Nov 22 j 05:26	12°♄15'36		max. Earth dist.	-736 Jun 03 j 22:05	4°♄14'15	10.00849 AU
evening set	-741 Mar 03 j 20:05	20°♄11'04		morning rise	-736 Jun 21 j 16:44	6°♄32'29	
				retrograde	-736 Oct 04 j 00:35	14°♄45'26	
conjunction	-741 Mar 21 j 08:23	22°♄26'26	-2°-18'-3	opposition	-736 Dec 09 j 12:25	11°♄17'13	0°-54'-41
minimum elong	-741 Mar 21 j 08:22	22°♄26'25	2°18'05	min. Earth dist.	-736 Dec 09 j 04:35	11°♄18'50	8.03953 AU
max. Earth dist.	-741 Mar 21 j 11:26	22°♄27'25	10.12161 AU	direct	-735 Feb 14 j 16:14	7°♄47'33	
morning rise	-741 Apr 08 j 01:08	24°♄43'15		evening set	-735 May 31 j 11:20	16°♄03'02	
	-741 May 24 j 13:29	0°♄					
retrograde	-741 Jul 24 j 14:07	3°♄05'29		conjunction	-735 Jun 18 j 16:03	18°♄23'27	0°-27'-10
	-741 Sep 25 j 18:33	30°♄		minimum elong	-735 Jun 18 j 16:04	18°♄23'28	0°27'10
opposition	-741 Sep 30 j 19:08	29°♄35'26	-2°-53'-26	max. Earth dist.	-735 Jun 19 j 02:16	18°♄26'45	10.07744 AU
min. Earth dist.	-741 Sep 30 j 15:51	29°♄36'06	8.08069 AU	morning rise	-735 Jul 06 j 18:48	20°♄43'11	
direct	-741 Dec 06 j 01:21	26°♄09'41		retrograde	-735 Oct 18 j 00:51	28°♄46'35	
	-740 Feb 10 j 17:34	0°♄		opposition	-735 Dec 23 j 13:00	25°♄19'39	0°-13'-7
evening set	-740 Mar 17 j 11:10	4°♄13'29		min. Earth dist.	-735 Dec 23 j 04:36	25°♄21'22	8.12116 AU
				direct	-734 Mar 01 j 06:29	21°♄50'02	
conjunction	-740 Apr 04 j 03:48	6°♄31'17	-2°-17'-57	asc. node	-734 Apr 21 j 12:02	24°♄04'33	
minimum elong	-740 Apr 04 j 03:49	6°♄31'17	2°17'59	evening set	-734 Jun 15 j 08:40	0°♄00'42	
max. Earth dist.	-740 Apr 04 j 08:49	6°♄32'55	10.04183 AU		-734 Jun 15 j 06:24	0°♄	
morning rise	-740 Apr 22 j 00:19	8°♄50'22					
retrograde	-740 Aug 07 j 10:33	17°♄16'58		conjunction	-734 Jul 03 j 11:27	2°♄19'00	0°06'30
opposition	-740 Oct 14 j 02:27	13°♄46'30	-2°-48'-17	minimum elong	-734 Jul 03 j 11:27	2°♄19'00	0°06'31
min. Earth dist.	-740 Oct 13 j 21:42	13°♄47'29	8.01277 AU	behind sun begin	-734 Jul 03 j 04:35	2°♄16'49	
direct	-740 Dec 19 j 05:10	10°♄19'35		behind sun end	-734 Jul 03 j 18:19	2°♄21'10	
evening set	-739 Apr 01 j 10:30	18°♄30'23		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	
conjunction	-739 Apr 19 j 07:21	20°♄50'13	-2°-9'-26	retrograde	-734 Oct 31 j 16:26	12°♄29'09	
minimum elong	-739 Apr 19 j 07:24	20°♄50'14	2°09'27	opposition	-733 Jan 06 j 07:40	9°♄03'41	0°28'14
max. Earth dist.	-739 Apr 19 j 13:49	20°♄52'21	9.98694 AU	min. Earth dist.	-733 Jan 05 j 23:37	9°♄05'19	8.22477 AU
morning rise	-739 May 07 j 07:20	23°♄11'06		direct	-733 Mar 15 j 15:52	5°♄34'24	
	-739 Jul 10 j 03:10	0°♄		evening set	-733 Jun 29 j 21:28	13°♄38'38	
retrograde	-739 Aug 22 j 07:20	1°♄39'02					
	-739 Oct 04 j 20:52	30°♄		conjunction	-733 Jul 17 j 20:45	15°♄54'09	0°38'59
opposition	-739 Oct 28 j 12:06	28°♄08'34	-2°-32'-34	minimum elong	-733 Jul 17 j 20:43	15°♄54'09	0°39'00
min. Earth dist.	-739 Oct 28 j 06:23	28°♄09'46	7.97198 AU	max. Earth dist.	-733 Jul 18 j 06:17	15°♄57'10	10.28337 AU
direct	-738 Jan 02 j 15:26	24°♄40'38		morning rise	-733 Aug 04 j 15:45	18°♄08'22	
	-738 Mar 23 j 19:15	0°♄		retrograde	-733 Nov 13 j 23:38	25°♄50'33	
evening set	-738 Apr 16 j 15:40	2°♄56'25		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
conjunction	-738 May 04 j 16:18	5°♄17'43	-1°-52'-45	direct	-732 Mar 28 j 17:59	18°♄57'57	
minimum elong	-738 May 04 j 16:22	5°♄17'45	1°52'46	evening set	-732 Jul 13 j 00:01	26°♄54'36	
max. Earth dist.	-738 May 05 j 00:06	5°♄20'17	9.96178 AU				
morning rise	-738 May 22 j 19:04	7°♄39'42		conjunction	-732 Jul 30 j 18:34	29°♄06'57	1°08'38
	-738 Aug 02 j 09:37	15°♄		minimum elong	-732 Jul 30 j 18:31	29°♄06'56	1°08'39
retrograde	-738 Sep 06 j 02:07	16°♄05'37		max. Earth dist.	-732 Jul 31 j 02:19	29°♄09'22	10.40740 AU
	-738 Oct 10 j 22:10	15°♄			-732 Aug 06 j 20:31	0°♄	
opposition	-738 Nov 11 j 22:20	12°♄35'34	-2°-7'-5	morning rise	-732 Aug 17 j 08:19	1°♄17'49	
min. Earth dist.	-738 Nov 11 j 15:50	12°♄36'55	7.96243 AU	retrograde	-732 Nov 25 j 21:59	8°♄49'42	
direct	-737 Jan 17 j 06:18	9°♄06'46		opposition	-731 Feb 01 j 01:16	5°♄27'17	1°40'58
	-737 Apr 12 j 12:56	15°♄		min. Earth dist.	-731 Jan 31 j 20:14	5°♄28'17	8.47162 AU
evening set	-737 May 01 j 23:39	17°♄25'02		direct	-731 Apr 11 j 13:38	1°♄59'30	
				evening set	-731 Jul 26 j 15:14	9°♄47'53	
conjunction	-737 May 20 j 03:10	19°♄47'00	-1°-28'-57				
minimum elong	-737 May 20 j 03:14	19°♄47'02	1°28'57	conjunction	-731 Aug 13 j 04:27	11°♄56'56	1°34'05
max. Earth dist.	-737 May 20 j 12:10	19°♄49'57	9.96904 AU	minimum elong	-731 Aug 13 j 04:23	11°♄56'55	1°34'06
morning rise	-737 Jun 07 j 07:34	22°♄09'12		max. Earth dist.	-731 Aug 13 j 09:43	11°♄58'33	10.53650 AU
	-737 Aug 28 j 13:06	0°♄		morning rise	-731 Aug 30 j 12:46	14°♄04'27	
retrograde	-737 Sep 20 j 16:20	0°♄29'56			-731 Sep 07 j 07:03	15°♄	
	-737 Oct 13 j 20:40	30°♄		retrograde	-731 Dec 08 j 10:16	21°♄26'54	
opposition	-737 Nov 26 j 07:04	27°♄00'38	-1°-33'-38	opposition	-730 Feb 14 j 00:08	18°♄05'54	2°09'01
min. Earth dist.	-737 Nov 25 j 23:53	27°♄02'08	7.98541 AU	min. Earth dist.	-730 Feb 13 j 20:36	18°♄06'36	8.60130 AU

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

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

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

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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 11:00	15°♄		conjunction	-687 Jan 15 j 15:51	19°♄19'51	0°-46'-14
retrograde	-693 Mar 06 j 04:04	19°♄15'43		minimum elong	-687 Jan 15 j 15:49	19°♄19'51	0°46'15
opposition	-693 May 15 j 18:25	15°♄58'25	1°59'31	max. Earth dist.	-687 Jan 15 j 07:47	19°♄17'23	10.69326 AU
min. Earth dist.	-693 May 16 j 02:16	15°♄56'58	9.11437 AU	morning rise	-687 Feb 01 j 15:38	21°♄23'50	
	-693 May 29 j 05:35	15°♄		retrograde	-687 May 17 j 13:36	28°♄59'44	
direct	-693 Jul 26 j 00:02	12°♄39'29		opposition	-687 Jul 27 j 00:35	25°♄35'27	-1°-14'-16
	-693 Sep 19 j 02:31	15°♄		min. Earth dist.	-687 Jul 27 j 06:15	25°♄34'22	8.63143 AU
evening set	-693 Nov 04 j 03:10	19°♄38'15		direct	-687 Oct 03 j 11:39	22°♄15'07	
				evening set	-686 Jan 11 j 06:04	29°♄35'35	
conjunction	-693 Nov 20 j 15:42	21°♄33'46	1°27'41		-686 Jan 14 j 14:18	0°≈	
minimum elong	-693 Nov 20 j 15:44	21°♄33'46	1°27'40	conjunction	-686 Jan 28 j 04:36	1°≈40'43	-1°-13'-20
max. Earth dist.	-693 Nov 20 j 06:32	21°♄31'04	11.10149 AU	minimum elong	-686 Jan 28 j 04:34	1°≈40'43	1°13'22
morning rise	-693 Dec 07 j 03:45	23°♄29'14		max. Earth dist.	-686 Jan 27 j 21:32	1°≈38'32	10.56890 AU
	-692 Feb 22 j 00:10	0°♂		morning rise	-686 Feb 14 j 07:37	3°≈47'16	
retrograde	-692 Mar 17 j 00:05	0°♂27'54		retrograde	-686 May 31 j 01:28	11°≈33'50	
	-692 Apr 10 j 05:31	30°♄		opposition	-686 Aug 09 j 04:26	8°≈08'07	-1°-46'-26
opposition	-692 May 26 j 18:32	27°♄09'52	1°33'22	min. Earth dist.	-686 Aug 09 j 09:01	8°≈07'14	8.50517 AU
min. Earth dist.	-692 May 27 j 02:45	27°♄08'21	9.08420 AU	direct	-686 Oct 16 j 01:13	4°≈46'51	
direct	-692 Aug 05 j 16:47	23°♄51'14		evening set	-685 Jan 24 j 02:51	12°≈15'50	
	-692 Nov 07 j 01:04	0°♂					
evening set	-692 Nov 14 j 07:40	0°♂49'43		conjunction	-685 Feb 10 j 04:20	14°≈23'33	-1°-37'-35
conjunction	-692 Nov 30 j 20:45	2°♂45'55	1°04'36	minimum elong	-685 Feb 10 j 04:17	14°≈23'32	1°37'37
minimum elong	-692 Nov 30 j 20:47	2°♂45'56	1°04'35	max. Earth dist.	-685 Feb 09 j 23:27	14°≈22'01	10.44165 AU
max. Earth dist.	-692 Nov 30 j 10:35	2°♂42'56	11.05992 AU		-685 Feb 15 j 00:26	15°≈	
morning rise	-692 Dec 17 j 10:24	4°♂42'22		morning rise	-685 Feb 27 j 10:41	16°≈32'46	
retrograde	-691 Mar 28 j 21:51	11°♂45'34		retrograde	-685 Jun 13 j 21:26	24°≈30'11	
opposition	-691 Jun 07 j 20:43	8°♂26'36	1°03'24	opposition	-685 Aug 22 j 15:05	21°≈03'04	-2°-14'-16
min. Earth dist.	-691 Jun 08 j 05:51	8°♂24'55	9.03070 AU	min. Earth dist.	-685 Aug 22 j 17:54	21°≈02'30	8.37933 AU
direct	-691 Aug 17 j 09:17	5°♂08'02		direct	-685 Oct 29 j 00:12	17°≈40'44	
evening set	-691 Nov 25 j 14:33	12°♂07'50		evening set	-684 Feb 06 j 10:53	25°≈18'59	
conjunction	-691 Dec 12 j 04:45	14°♂05'09	0°38'46	conjunction	-684 Feb 23 j 15:48	27°≈29'23	-1°-57'-29
minimum elong	-691 Dec 12 j 04:46	14°♂05'10	0°38'45	minimum elong	-684 Feb 23 j 15:46	27°≈29'22	1°57'31
max. Earth dist.	-691 Dec 11 j 17:52	14°♂01'56	10.99579 AU	max. Earth dist.	-684 Feb 23 j 14:02	27°≈28'49	10.31782 AU
morning rise	-691 Dec 28 j 20:32	16°♂02'58		morning rise	-684 Mar 12 j 01:36	29°≈41'22	
retrograde	-690 Apr 10 j 02:29	23°♂12'19			-684 Mar 14 j 13:40	0°♄	
opposition	-690 Jun 20 j 02:18	19°♂52'13	0°30'31	retrograde	-684 Jun 27 j 02:54	7°♄49'03	
min. Earth dist.	-690 Jun 20 j 11:26	19°♂50'31	8.95561 AU	opposition	-684 Sep 04 j 08:20	4°♄20'40	-2°-35'-50
direct	-690 Aug 29 j 05:22	16°♂33'30		min. Earth dist.	-684 Sep 04 j 08:42	4°♄20'36	8.26022 AU
evening set	-690 Dec 07 j 01:33	23°♂36'10		direct	-684 Nov 10 j 05:53	0°♄57'13	
				evening set	-683 Feb 19 j 06:34	8°♄44'57	
conjunction	-690 Dec 23 j 17:24	25°♂34'59	0°11'03	conjunction	-683 Mar 08 j 15:14	10°♄58'04	-2°-11'-31
minimum elong	-690 Dec 23 j 17:25	25°♂34'59	0°11'03	minimum elong	-683 Mar 08 j 15:12	10°♄58'03	2°11'32
behind sun begin	-690 Dec 23 j 12:07	25°♂33'25		max. Earth dist.	-683 Mar 08 j 16:17	10°♄58'24	10.20392 AU
behind sun end	-690 Dec 23 j 22:42	25°♂36'33		morning rise	-683 Mar 26 j 04:37	13°♄12'44	
max. Earth dist.	-690 Dec 23 j 07:30	25°♂32'02	10.91113 AU	retrograde	-683 Jul 11 j 15:39	21°♄29'18	
morning rise	-689 Jan 09 j 11:32	27°♂34'33		opposition	-683 Sep 18 j 07:33	17°♄59'54	-2°-49'-20
	-689 Jan 31 j 01:39	0°♄		min. Earth dist.	-683 Sep 18 j 05:29	18°♄00'19	8.15425 AU
retrograde	-689 Apr 22 j 13:41	4°♄51'31		direct	-683 Nov 23 j 19:05	14°♄35'14	
desc. node	-689 May 17 j 23:35	4°♄20'48		evening set	-682 Mar 05 j 13:14	22°♄32'07	
opposition	-689 Jul 02 j 12:13	1°♄30'07	0°-4'-14	conjunction	-682 Mar 23 j 01:56	24°♄47'50	-2°-18'-24
min. Earth dist.	-689 Jul 02 j 20:14	1°♄28'37	8.86153 AU	minimum elong	-682 Mar 23 j 01:56	24°♄47'50	2°18'25
	-689 Jul 23 j 07:28	30°♄		max. Earth dist.	-682 Mar 23 j 05:18	24°♄48'56	10.10641 AU
direct	-689 Sep 10 j 02:51	28°♄11'04		morning rise	-682 Apr 09 j 19:07	27°♄05'02	
	-689 Oct 27 j 01:23	0°♄			-682 May 03 j 17:45	0°♄	
evening set	-689 Dec 18 j 18:44	5°♄18'11		retrograde	-682 Jul 26 j 09:23	5°♄28'18	
conjunction	-688 Jan 04 j 12:37	7°♄18'50	0°-17'-42	opposition	-682 Oct 02 j 11:54	1°♄58'09	-2°-53'-13
minimum elong	-688 Jan 04 j 12:36	7°♄18'50	0°17'42	min. Earth dist.	-682 Oct 02 j 08:05	1°♄58'56	8.06733 AU
max. Earth dist.	-688 Jan 04 j 04:01	7°♄16'15	10.80896 AU		-682 Oct 28 j 03:38	30°♄	
morning rise	-688 Jan 21 j 09:23	9°♄20'28		direct	-682 Dec 07 j 17:07	28°♄32'16	
retrograde	-688 May 04 j 09:07	16°♄46'23			-681 Jan 16 j 13:47	0°♄	
opposition	-688 Jul 14 j 03:20	13°♄23'34	0°-39'-39	evening set	-681 Mar 20 j 05:32	6°♄37'15	
min. Earth dist.	-688 Jul 14 j 09:56	13°♄22'19	8.75200 AU	conjunction	-681 Apr 06 j 22:32	8°♄55'21	-2°-17'-11
direct	-688 Sep 21 j 05:00	10°♄03'58					
evening set	-688 Dec 29 j 19:46	17°♄17'04					

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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 22:34	8°Υ55'22	2°17'12	asc. node	-675 Mar 01 j 23:55	24°Π14'33	
max. Earth dist.	-681 Apr 07 j 03:40	8°Υ57'02	10.03065 AU	direct	-675 Mar 03 j 00:25	24°Π14'29	
morning rise	-681 Apr 24 j 19:33	11°Υ14'44			-675 May 28 j 05:31	0°Ϸ	
retrograde	-681 Aug 10 j 05:13	19°Υ41'56		evening set	-675 Jun 17 j 03:34	2°Ϸ24'37	
opposition	-681 Oct 16 j 19:56	16°Υ11'25	-2°-46'-38				
min. Earth dist.	-681 Oct 16 j 15:05	16°Υ12'25	8.00395 AU	conjunction	-675 Jul 05 j 06:02	4°Ϸ42'39	0°11'04
direct	-681 Dec 21 j 22:29	12°Υ44'22		minimum elong	-675 Jul 05 j 06:01	4°Ϸ42'39	0°11'04
evening set	-680 Apr 03 j 05:50	20°Υ56'00		behind sun begin	-675 Jul 05 j 00:37	4°Ϸ40'56	
				behind sun end	-675 Jul 05 j 11:25	4°Ϸ44'21	
conjunction	-680 Apr 21 j 03:05	23°Υ16'05	-2°-7'-32	max. Earth dist.	-675 Jul 05 j 16:53	4°Ϸ46'07	10.18262 AU
minimum elong	-680 Apr 21 j 03:08	23°Υ16'06	2°07'33	morning rise	-675 Jul 23 j 05:02	6°Ϸ59'36	
max. Earth dist.	-680 Apr 21 j 09:26	23°Υ18'10	9.98055 AU	retrograde	-675 Nov 02 j 09:06	14°Ϸ51'29	
morning rise	-680 May 09 j 03:32	25°Υ37'10		opposition	-674 Jan 08 j 00:07	11°Ϸ26'14	0°33'47
	-680 Jun 14 j 23:21	0°Ϸ		min. Earth dist.	-674 Jan 07 j 16:20	11°Ϸ27'49	8.23737 AU
retrograde	-680 Aug 24 j 01:38	4°Ϸ05'11		direct	-674 Mar 17 j 08:35	7°Ϸ57'06	
opposition	-680 Oct 30 j 05:51	0°Ϸ34'46	-2°-29'-33	evening set	-674 Jul 01 j 15:26	16°Ϸ00'36	
min. Earth dist.	-680 Oct 30 j 00:19	0°Ϸ35'55	7.96781 AU				
	-680 Nov 06 j 06:00	30°ϷΥ		conjunction	-674 Jul 19 j 14:10	18°Ϸ15'48	0°43'16
direct	-679 Jan 04 j 09:28	27°Υ06'43		minimum elong	-674 Jul 19 j 14:08	18°Ϸ15'47	0°43'17
	-679 Mar 02 j 12:53	0°Ϸ		max. Earth dist.	-674 Jul 19 j 23:32	18°Ϸ18'45	10.29693 AU
evening set	-679 Apr 18 j 11:33	5°Ϸ23'01		morning rise	-674 Aug 06 j 08:39	20°Ϸ29'39	
				retrograde	-674 Nov 15 j 15:29	28°Ϸ10'46	
conjunction	-679 May 06 j 12:34	7°Ϸ44'29	-1°-49'-50	opposition	-673 Jan 21 j 11:32	24°Ϸ47'03	1°11'55
minimum elong	-679 May 06 j 12:38	7°Ϸ44'30	1°49'51	min. Earth dist.	-673 Jan 21 j 05:15	24°Ϸ48'19	8.35828 AU
max. Earth dist.	-679 May 06 j 20:22	7°Ϸ47'02	9.95981 AU	direct	-673 Mar 31 j 10:38	21°Ϸ18'33	
morning rise	-679 May 24 j 15:40	10°Ϸ06'34		evening set	-673 Jul 15 j 16:54	29°Ϸ14'20	
	-679 Jul 05 j 09:55	15°Ϸ			-673 Jul 21 j 21:24	0°Ω	
retrograde	-679 Sep 07 j 20:17	18°Ϸ32'12		conjunction	-673 Aug 02 j 10:48	1°Ω26'19	1°12'25
opposition	-679 Nov 13 j 16:09	15°Ϸ02'14	-2°-2'-53	minimum elong	-673 Aug 02 j 10:45	1°Ω26'18	1°12'26
min. Earth dist.	-679 Nov 13 j 09:33	15°Ϸ03'37	7.96244 AU	max. Earth dist.	-673 Aug 02 j 17:50	1°Ω28'31	10.42238 AU
	-679 Nov 14 j 02:56	15°Ϸ		morning rise	-673 Aug 20 j 00:03	3°Ω36'50	
direct	-678 Jan 19 j 00:40	11°Ϸ33'25		retrograde	-673 Nov 28 j 10:43	11°Ω07'38	
	-678 Mar 23 j 03:34	15°Ϸ		opposition	-672 Feb 03 j 16:16	7°Ω45'26	1°45'13
evening set	-678 May 03 j 19:38	19°Ϸ51'53		min. Earth dist.	-672 Feb 03 j 11:21	7°Ω46'24	8.48709 AU
				direct	-672 Apr 13 j 07:18	4°Ω17'48	
conjunction	-678 May 21 j 23:28	22°Ϸ13'55	-1°-25'-11	evening set	-672 Jul 28 j 06:57	12°Ω05'15	
minimum elong	-678 May 21 j 23:31	22°Ϸ13'56	1°25'12				
max. Earth dist.	-678 May 22 j 08:52	22°Ϸ17'00	9.97108 AU	conjunction	-672 Aug 14 j 19:32	14°Ω13'53	1°37'12
morning rise	-678 Jun 09 j 03:58	24°Ϸ36'07		minimum elong	-672 Aug 14 j 19:29	14°Ω13'52	1°37'12
	-678 Jul 26 j 08:30	0°Π		max. Earth dist.	-672 Aug 15 j 00:23	14°Ω15'23	10.55214 AU
retrograde	-678 Sep 22 j 10:35	2°Π56'17			-672 Aug 21 j 01:20	15°Ω	
	-678 Nov 21 j 09:47	30°Ϸ		morning rise	-672 Sep 01 j 03:17	16°Ω21'01	
opposition	-678 Nov 28 j 00:45	29°Ϸ27'07	-1°-28'-32	retrograde	-672 Dec 09 j 23:15	23°Ω42'29	
min. Earth dist.	-678 Nov 27 j 17:00	29°Ϸ28'44	7.98924 AU	opposition	-671 Feb 15 j 14:23	20°Ω21'39	2°12'21
direct	-677 Feb 02 j 18:14	25°Ϸ57'47		min. Earth dist.	-671 Feb 15 j 10:21	20°Ω22'26	8.61704 AU
	-677 Apr 13 j 01:59	0°Π		direct	-671 Apr 26 j 19:08	16°Ω55'06	
evening set	-677 May 19 j 03:12	4°Π15'50		evening set	-671 Aug 10 j 09:47	24°Ω34'00	
conjunction	-677 Jun 06 j 08:21	6°Π37'27	0°-55'-22	conjunction	-671 Aug 27 j 17:05	26°Ω39'27	1°56'43
minimum elong	-677 Jun 06 j 08:24	6°Π37'28	0°55'23	minimum elong	-671 Aug 27 j 17:02	26°Ω39'26	1°56'43
max. Earth dist.	-677 Jun 06 j 18:53	6°Π40'53	10.01418 AU	max. Earth dist.	-671 Aug 27 j 20:21	26°Ω40'27	10.67983 AU
morning rise	-677 Jun 24 j 12:40	8°Π58'47		morning rise	-671 Sep 13 j 19:26	28°Ω43'24	
retrograde	-677 Oct 06 j 18:01	17°Π10'56			-671 Sep 24 j 17:22	0°Ϸ	
opposition	-677 Dec 12 j 05:44	13°Π42'53	0°-49'-3	retrograde	-671 Dec 22 j 05:46	5°Ϸ56'37	
min. Earth dist.	-677 Dec 11 j 21:13	13°Π44'39	8.04680 AU	opposition	-670 Feb 28 j 06:14	2°Ϸ37'01	2°32'36
direct	-676 Feb 17 j 11:08	10°Π13'19		min. Earth dist.	-670 Feb 28 j 03:30	2°Ϸ37'33	8.74194 AU
evening set	-676 Jun 02 j 06:53	18°Π28'28			-670 Apr 08 j 03:43	30°Ϸ	
				direct	-670 May 09 j 21:29	29°Ω11'42	
conjunction	-676 Jun 20 j 11:34	20°Π48'43	0°-22'-33	evening set	-670 Jun 10 j 09:43	0°Ϸ	
minimum elong	-676 Jun 20 j 11:35	20°Π48'44	0°22'34		-670 Aug 23 j 01:55	6°Ϸ42'18	
max. Earth dist.	-676 Jun 20 j 22:37	20°Π52'18	10.08631 AU				
morning rise	-676 Jul 08 j 13:59	23°Π08'15		conjunction	-670 Sep 09 j 04:18	8°Ϸ44'51	2°10'31
	-676 Sep 13 j 20:24	0°Ϸ		minimum elong	-670 Sep 09 j 04:15	8°Ϸ44'51	2°10'31
retrograde	-676 Oct 19 j 17:35	1°Ϸ10'42		max. Earth dist.	-670 Sep 09 j 06:06	8°Ϸ45'24	10.79964 AU
	-676 Nov 25 j 00:31	30°Ϸ		morning rise	-670 Sep 26 j 01:45	10°Ϸ46'00	
opposition	-676 Dec 25 j 05:56	27°Π43'59	0°-7'-21	retrograde	-669 Jan 03 j 05:23	17°Ϸ52'17	
min. Earth dist.	-676 Dec 24 j 21:16	27°Π45'46	8.13135 AU				

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

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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 19:02	29°♁20'30		min. Earth dist.	-651 Oct 23 j 20:17	24°♃18'15	7.96143 AU
	-657 Nov 07 j 01:33	0°♁		direct	-651 Dec 29 j 05:11	20°♃48'48	
evening set	-656 Jan 18 j 15:59	6°♁44'54		evening set	-650 Apr 11 j 22:07	29°♃03'59	
					-650 Apr 19 j 02:28	0°♁	
conjunction	-656 Feb 04 j 16:06	8°♁51'17	-1°-27'-5	conjunction	-650 Apr 29 j 21:44	1°♁25'11	-1°-58'-54
minimum elong	-656 Feb 04 j 16:04	8°♁51'16	1°27'06	minimum elong	-650 Apr 29 j 21:48	1°♁25'12	1°58'55
max. Earth dist.	-656 Feb 04 j 09:20	8°♁49'10	10.50873 AU	max. Earth dist.	-650 Apr 30 j 06:34	1°♁28'06	9.94629 AU
morning rise	-656 Feb 21 j 20:40	10°♁59'06		morning rise	-650 May 17 j 23:42	3°♁47'10	
	-656 Mar 28 j 11:19	15°♁		retrograde	-650 Sep 01 j 13:13	12°♁15'11	
retrograde	-656 Jun 06 j 23:53	18°♁51'04		opposition	-650 Nov 07 j 12:51	8°♁44'15	-2°-16'-15
opposition	-656 Aug 15 j 21:35	15°♁24'37	-2°-2'-18	min. Earth dist.	-650 Nov 07 j 05:25	8°♁45'48	7.94246 AU
min. Earth dist.	-656 Aug 16 j 01:50	15°♁23'47	8.44213 AU	direct	-649 Jan 12 j 18:23	5°♁15'08	
	-656 Aug 21 j 03:47	15°♁		evening set	-649 Apr 27 j 05:54	13°♁33'36	
direct	-656 Oct 22 j 12:42	12°♁02'47			-649 May 08 j 07:14	15°♁	
	-656 Dec 20 j 09:21	15°♁		conjunction	-649 May 15 j 08:46	15°♁55'44	-1°-37'-13
evening set	-655 Jan 30 j 18:23	19°♁36'20		minimum elong	-649 May 15 j 08:50	15°♁55'45	1°37'13
conjunction	-655 Feb 16 j 21:33	21°♁45'25	-1°-49'-6	max. Earth dist.	-649 May 15 j 19:08	15°♁59'08	9.94439 AU
minimum elong	-655 Feb 16 j 21:30	21°♁45'24	1°49'08	morning rise	-649 Jun 02 j 12:48	18°♁18'14	
max. Earth dist.	-655 Feb 16 j 16:12	21°♁43'43	10.37609 AU	retrograde	-649 Sep 16 j 06:45	26°♁41'59	
morning rise	-655 Mar 06 j 05:40	23°♁56'04		opposition	-649 Nov 21 j 22:50	23°♁11'46	-1°-45'-3
	-655 May 02 j 23:41	0°♁		min. Earth dist.	-649 Nov 21 j 14:40	23°♁13'28	7.95671 AU
retrograde	-655 Jun 21 j 01:26	1°♁58'50		direct	-648 Jan 27 j 11:07	19°♁42'05	
	-655 Aug 10 j 02:25	30°♁		evening set	-648 May 11 j 14:30	28°♁01'14	
opposition	-655 Aug 29 j 11:27	28°♁30'52	-2°-26'-58		-648 May 26 j 19:58	0°♁	
min. Earth dist.	-655 Aug 29 j 14:12	28°♁30'19	8.31257 AU	conjunction	-648 May 29 j 19:16	0°♁23'21	-1°-9'-28
direct	-655 Nov 04 j 13:33	25°♁07'41		minimum elong	-648 May 29 j 19:19	0°♁23'22	1°09'28
	-654 Jan 20 j 12:24	0°♁		max. Earth dist.	-648 May 30 j 06:22	0°♁26'59	9.97567 AU
evening set	-654 Feb 13 j 08:06	2°♁50'56		morning rise	-648 Jun 16 j 23:54	2°♁45'24	
conjunction	-654 Mar 02 j 14:47	5°♁02'47	-2°-5'-58	retrograde	-648 Sep 29 j 18:02	11°♁02'06	
minimum elong	-654 Mar 02 j 14:45	5°♁02'46	2°06'00	opposition	-648 Dec 05 j 06:02	7°♁33'01	-1°-7'-28
max. Earth dist.	-654 Mar 02 j 11:42	5°♁01'47	10.25033 AU	min. Earth dist.	-648 Dec 04 j 21:34	7°♁34'47	8.00340 AU
morning rise	-654 Mar 20 j 02:35	7°♁16'15		direct	-647 Feb 10 j 05:01	4°♁03'05	
retrograde	-654 Jul 05 j 09:54	15°♁28'56		evening set	-647 May 26 j 20:34	12°♁20'23	
opposition	-654 Sep 12 j 07:52	11°♁59'39	-2°-44'-22	conjunction	-647 Jun 14 j 01:37	14°♁41'31	0°-37'-40
min. Earth dist.	-654 Sep 12 j 08:56	11°♁59'26	8.19337 AU	minimum elong	-647 Jun 14 j 01:39	14°♁41'32	0°37'41
direct	-654 Nov 17 j 23:48	8°♁35'06		max. Earth dist.	-647 Jun 14 j 12:54	14°♁45'11	10.03816 AU
evening set	-653 Feb 27 j 09:21	16°♁28'02		morning rise	-647 Jul 02 j 05:15	17°♁02'09	
conjunction	-653 Mar 16 j 20:06	18°♁42'39	-2°-16'-16	retrograde	-647 Oct 13 j 21:05	25°♁09'45	
minimum elong	-653 Mar 16 j 20:05	18°♁42'38	2°16'17	opposition	-647 Dec 19 j 08:58	21°♁42'06	0°-26'-20
max. Earth dist.	-653 Mar 16 j 20:08	18°♁42'39	10.13837 AU	min. Earth dist.	-647 Dec 19 j 00:22	21°♁43'53	8.07959 AU
morning rise	-653 Apr 03 j 11:42	20°♁58'50		direct	-646 Feb 24 j 20:43	18°♁12'16	
retrograde	-653 Jul 20 j 00:15	29°♁19'40		evening set	-646 Jun 10 j 21:07	26°♁25'26	
opposition	-653 Sep 26 j 09:55	25°♁49'20	-2°-52'-50	conjunction	-646 Jun 29 j 00:46	28°♁44'42	0°-4'-10
min. Earth dist.	-653 Sep 26 j 08:44	25°♁49'35	8.09124 AU	minimum elong	-646 Jun 29 j 00:46	28°♁44'42	0°04'10
direct	-653 Dec 01 j 19:07	22°♁23'27		behind sun begin	-646 Jun 28 j 17:32	28°♁42'24	
	-652 Mar 09 j 13:36	0°♁		behind sun end	-646 Jun 29 j 07:59	28°♁47'00	
evening set	-652 Mar 12 j 21:18	0°♁25'22		max. Earth dist.	-646 Jun 29 j 11:43	28°♁48'13	10.12772 AU
conjunction	-652 Mar 30 j 12:27	2°♁42'37	-2°-18'-50		-646 Jul 08 j 19:09	0°♁	
minimum elong	-652 Mar 30 j 12:28	2°♁42'37	2°18'51	morning rise	-646 Jul 17 j 01:46	1°♁03'04	
max. Earth dist.	-652 Mar 30 j 15:44	2°♁43'41	10.04676 AU	asc. node	-646 Aug 14 j 08:37	4°♁25'01	
morning rise	-652 Apr 17 j 07:51	5°♁01'14		retrograde	-646 Oct 27 j 16:35	9°♁00'19	
retrograde	-652 Aug 02 j 18:46	13°♁27'42		opposition	-645 Jan 02 j 06:22	5°♁34'18	0°15'27
opposition	-652 Oct 09 j 16:33	9°♁56'44	-2°-51'-7	min. Earth dist.	-645 Jan 01 j 21:39	5°♁36'04	8.18029 AU
min. Earth dist.	-652 Oct 09 j 12:56	9°♁57'28	8.01223 AU	direct	-645 Mar 11 j 08:21	2°♁04'55	
direct	-652 Dec 14 j 21:17	6°♁29'35		evening set	-645 Jun 25 j 13:54	10°♁12'06	
evening set	-651 Mar 27 j 18:19	14°♁39'08		conjunction	-645 Jul 13 j 14:30	12°♁28'45	0°29'03
conjunction	-651 Apr 14 j 13:52	16°♁58'38	-2°-13'-2	minimum elong	-645 Jul 13 j 14:29	12°♁28'45	0°29'04
minimum elong	-651 Apr 14 j 13:54	16°♁58'39	2°13'03	max. Earth dist.	-645 Jul 14 j 00:52	12°♁32'03	10.23849 AU
max. Earth dist.	-651 Apr 14 j 20:11	17°♁00'43	9.98124 AU	morning rise	-645 Jul 31 j 11:22	14°♁44'11	
morning rise	-651 May 02 j 12:47	19°♁19'15		retrograde	-645 Nov 10 j 03:22	22°♁30'38	
retrograde	-651 Aug 17 j 16:09	27°♁48'13		opposition	-644 Jan 15 j 21:22	19°♁06'19	0°55'17
opposition	-651 Oct 24 j 02:09	24°♁17'02	-2°-38'-46				

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

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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 03:11	4°♂43'55	1°01'18	conjunction	-626 Feb 11 j 14:05	16°♁27'17	-1°-40'-12
max. Earth dist.	-633 Dec 02 j 16:09	4°♂40'40	11.06085 AU	minimum elong	-626 Feb 11 j 14:02	16°♁27'16	1°40'14
morning rise	-633 Dec 19 j 17:03	6°♂40'23		max. Earth dist.	-626 Feb 11 j 09:37	16°♁25'53	10.42781 AU
retrograde	-632 Mar 30 j 05:35	13°♂43'43		morning rise	-626 Feb 28 j 20:36	18°♁36'46	
opposition	-632 Jun 09 j 04:54	10°♂24'42	0°59'14	retrograde	-626 Jun 15 j 09:23	26°♁35'16	
min. Earth dist.	-632 Jun 09 j 14:31	10°♂22'55	9.03013 AU	opposition	-626 Aug 24 j 01:16	23°♁07'57	-2°-17'-9
direct	-632 Aug 18 j 17:57	7°♂06'07		min. Earth dist.	-626 Aug 24 j 03:44	23°♁07'28	8.36496 AU
evening set	-632 Nov 26 j 20:51	14°♂05'46		direct	-626 Oct 30 j 08:59	19°♁45'28	
				evening set	-625 Feb 07 j 21:20	27°♁24'45	
conjunction	-632 Dec 13 j 11:15	16°♂03'09	0°35'16				
minimum elong	-632 Dec 13 j 11:17	16°♂03'09	0°35'15	conjunction	-625 Feb 25 j 02:35	29°♁35'27	-1°-59'-26
max. Earth dist.	-632 Dec 13 j 00:37	16°♂00'00	10.99380 AU	minimum elong	-625 Feb 25 j 02:32	29°♁35'26	1°59'28
morning rise	-632 Dec 30 j 03:12	18°♂01'03		max. Earth dist.	-625 Feb 25 j 00:57	29°♁34'56	10.30299 AU
retrograde	-631 Apr 11 j 10:21	25°♂10'40			-625 Feb 28 j 07:36	0°♁	
opposition	-631 Jun 21 j 10:26	21°♂50'27	0°26'08	morning rise	-625 Mar 14 j 12:35	1°♁47'44	
min. Earth dist.	-631 Jun 21 j 19:19	21°♂48'48	8.95213 AU	retrograde	-625 Jun 29 j 16:03	9°♁56'34	
direct	-631 Aug 30 j 12:48	18°♂31'43		opposition	-625 Sep 06 j 19:19	6°♁28'01	-2°-37'-50
evening set	-631 Dec 08 j 08:11	25°♂34'26		min. Earth dist.	-625 Sep 06 j 19:17	6°♁28'01	8.24528 AU
				direct	-625 Nov 12 j 15:10	3°♁04'23	
conjunction	-631 Dec 25 j 00:15	27°♂33'20	0°07'27	evening set	-624 Feb 21 j 18:17	10°♁53'20	
minimum elong	-631 Dec 25 j 00:15	27°♂33'20	0°07'26				
behind sun begin	-631 Dec 24 j 17:51	27°♂31'27		conjunction	-624 Mar 10 j 03:15	13°♁06'46	-2°-12'-39
behind sun end	-631 Dec 25 j 06:39	27°♂35'14		minimum elong	-624 Mar 10 j 03:14	13°♁06'45	2°12'41
max. Earth dist.	-631 Dec 24 j 14:32	27°♂30'27	10.90619 AU	max. Earth dist.	-624 Mar 10 j 03:52	13°♁06'58	10.18905 AU
morning rise	-630 Jan 10 j 18:29	29°♂33'00		morning rise	-624 Mar 27 j 17:02	15°♁21'46	
	-630 Jan 14 j 15:10	0°♁		retrograde	-624 Jul 13 j 05:11	23°♁39'27	
desc. node	-630 Apr 01 j 12:56	6°♁25'57		opposition	-624 Sep 19 j 19:22	20°♁09'55	-2°-50'-13
retrograde	-630 Apr 23 j 22:32	6°♁50'25		min. Earth dist.	-624 Sep 19 j 17:24	20°♁10'19	8.13975 AU
opposition	-630 Jul 03 j 20:25	3°♁28'53	0°-8'-42	direct	-624 Nov 25 j 06:02	16°♁45'06	
min. Earth dist.	-630 Jul 04 j 04:16	3°♁27'24	8.85518 AU	evening set	-623 Mar 07 j 02:16	24°♁43'15	
direct	-630 Sep 11 j 10:40	0°♁09'45					
evening set	-630 Dec 20 j 01:52	7°♁17'08		conjunction	-623 Mar 24 j 15:19	26°♁59'19	-2°-18'-35
				minimum elong	-623 Mar 24 j 15:19	26°♁59'18	2°18'36
conjunction	-629 Jan 05 j 19:49	9°♁17'55	0°-21'-18	max. Earth dist.	-623 Mar 24 j 18:04	27°♁00'12	10.09259 AU
minimum elong	-629 Jan 05 j 19:48	9°♁17'55	0°21'18	morning rise	-623 Apr 11 j 08:58	29°♁16'50	
max. Earth dist.	-629 Jan 05 j 10:25	9°♁15'05	10.80128 AU		-623 Apr 17 j 01:31	0°♁	
morning rise	-629 Jan 22 j 16:49	11°♁19'42		retrograde	-623 Jul 27 j 23:11	7°♁41'05	
retrograde	-629 May 06 j 18:55	18°♁46'13		opposition	-623 Oct 04 j 00:37	4°♁10'53	-2°-52'-52
opposition	-629 Jul 16 j 11:59	15°♁23'15	0°-44'-1	min. Earth dist.	-623 Oct 03 j 21:09	4°♁11'36	8.05451 AU
min. Earth dist.	-629 Jul 16 j 19:08	15°♁21'54	8.74304 AU	direct	-623 Dec 09 j 05:00	0°♁44'52	
direct	-629 Sep 23 j 11:46	12°♁03'32		evening set	-622 Mar 21 j 19:43	8°♁51'02	
evening set	-628 Jan 01 j 03:26	19°♁17'06					
				conjunction	-622 Apr 08 j 13:07	11°♁09'28	-2°-16'-21
conjunction	-628 Jan 17 j 23:36	21°♁20'03	0°-49'-39	minimum elong	-622 Apr 08 j 13:09	11°♁09'28	2°16'22
minimum elong	-628 Jan 17 j 23:34	21°♁20'02	0°49'40	max. Earth dist.	-622 Apr 08 j 18:06	11°♁11'06	10.01927 AU
max. Earth dist.	-628 Jan 17 j 14:35	21°♁17'17	10.68316 AU	morning rise	-622 Apr 26 j 10:35	13°♁29'10	
morning rise	-628 Feb 03 j 23:43	23°♁24'13		retrograde	-622 Aug 11 j 19:57	21°♁57'03	
	-628 Apr 13 j 15:41	0°♁		opposition	-622 Oct 18 j 09:22	18°♁26'31	-2°-44'-59
retrograde	-628 May 18 j 22:20	1°♁00'55		min. Earth dist.	-622 Oct 18 j 04:38	18°♁27'30	7.99431 AU
	-628 Jun 23 j 16:59	30°♁♁		direct	-622 Dec 23 j 11:20	14°♁59'20	
opposition	-628 Jul 28 j 09:43	27°♁36'28	-1°-18'-21	evening set	-621 Apr 05 j 20:58	23°♁11'53	
min. Earth dist.	-628 Jul 28 j 16:14	27°♁35'13	8.62024 AU				
direct	-628 Oct 04 j 19:33	24°♁15'58		conjunction	-621 Apr 23 j 18:41	25°♁32'14	-2°-5'-41
	-628 Dec 29 j 22:45	0°♁		minimum elong	-621 Apr 23 j 18:44	25°♁32'15	2°05'42
evening set	-627 Jan 12 j 14:32	1°♁37'08		max. Earth dist.	-621 Apr 24 j 01:30	25°♁34'28	9.97292 AU
				morning rise	-621 May 11 j 19:31	27°♁53'33	
conjunction	-627 Jan 29 j 13:20	3°♁42'30	-1°-16'-26		-621 May 28 j 15:13	0°♁	
minimum elong	-627 Jan 29 j 13:17	3°♁42'29	1°16'28	retrograde	-621 Aug 26 j 16:41	6°♁21'50	
max. Earth dist.	-627 Jan 29 j 06:09	3°♁40'16	10.55672 AU	opposition	-621 Nov 01 j 19:43	2°♁51'25	-2°-26'-39
morning rise	-627 Feb 15 j 16:35	5°♁49'15		min. Earth dist.	-621 Nov 01 j 13:56	2°♁52'37	7.96212 AU
retrograde	-627 Jun 01 j 10:37	13°♁36'47			-621 Dec 12 j 09:09	30°♁♁	
opposition	-627 Aug 10 j 13:58	10°♁10'52	-1°-50'-1	direct	-620 Jan 06 j 23:54	29°♁23'15	
min. Earth dist.	-627 Aug 10 j 18:52	10°♁09'55	8.49215 AU		-620 Feb 01 j 11:24	0°♁	
direct	-627 Oct 17 j 11:12	6°♁49'25		evening set	-620 Apr 20 j 03:23	7°♁40'10	
evening set	-626 Jan 25 j 12:14	14°♁19'18					
	-626 Jan 30 j 23:40	15°♁		conjunction	-620 May 08 j 04:52	10°♁01'48	-1°-47'-3
				minimum elong	-620 May 08 j 04:56	10°♁01'50	1°47'04

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

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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 13:57	9°♄44'30	9.04692 AU	min. Earth dist.	-602 Jun 16 j 17:49	16°♄57'59	9.01955 AU
direct	-608 Jun 16 j 23:36	6°♄23'33		direct	-602 Aug 25 j 15:17	13°♄41'43	
evening set	-608 Sep 28 j 05:15	13°♄32'22		evening set	-602 Dec 03 j 15:01	20°♄41'44	
conjunction	-608 Oct 14 j 20:36	15°♄28'42	2°16'00	conjunction	-602 Dec 20 j 05:59	22°♄39'33	0°19'54
minimum elong	-608 Oct 14 j 20:37	15°♄28'43	2°15'59	minimum elong	-602 Dec 20 j 05:59	22°♄39'33	0°19'54
max. Earth dist.	-608 Oct 14 j 16:36	15°♄27'32	11.07668 AU	max. Earth dist.	-602 Dec 19 j 18:58	22°♄36'17	10.97825 AU
morning rise	-608 Oct 31 j 08:47	17°♄24'12		morning rise	-601 Jan 05 j 23:02	24°♄38'01	
retrograde	-607 Feb 07 j 15:24	24°♄18'02		retrograde	-601 Mar 01 j 05:41	0°♄	
opposition	-607 Apr 18 j 11:00	21°♄01'26	2°40'55	retrograde	-601 Apr 18 j 16:39	1°♄50'31	
min. Earth dist.	-607 Apr 18 j 14:58	21°♄00'42	9.10410 AU	retrograde	-601 Jun 07 j 19:42	30°♄♂	
direct	-607 Jun 28 j 23:15	17°♄41'10		opposition	-601 Jun 28 j 16:20	28°♄30'22	0°06'54
evening set	-607 Oct 09 j 13:55	24°♄45'03		min. Earth dist.	-601 Jun 29 j 01:47	28°♄28'36	8.93105 AU
conjunction	-607 Oct 26 j 03:29	26°♄40'28	2°06'32	direct	-601 Sep 06 j 11:47	25°♄12'08	
minimum elong	-607 Oct 26 j 03:30	26°♄40'29	2°06'32	desc. node	-601 Sep 11 j 07:42	25°♄13'20	
max. Earth dist.	-607 Oct 25 j 21:42	26°♄38'47	11.12216 AU	evening set	-601 Nov 25 j 02:32	0°♄	
morning rise	-607 Nov 11 j 14:36	28°♄35'16		conjunction	-601 Dec 15 j 04:56	2°♄16'05	
retrograde	-607 Nov 24 j 05:24	0°♄		conjunction	-601 Dec 31 j 21:45	4°♄15'38	0°-8'-30
opposition	-606 Feb 19 j 04:08	5°♄28'14		minimum elong	-601 Dec 31 j 21:45	4°♄15'38	0°08'30
opposition	-606 Apr 30 j 09:02	2°♄11'45	2°26'20	behind sun begin	-601 Dec 31 j 15:36	4°♄13'49	
min. Earth dist.	-606 Apr 30 j 15:02	2°♄10'39	9.13724 AU	behind sun end	-600 Jan 01 j 03:54	4°♄17'28	
direct	-606 Jun 02 j 02:29	30°♄♂		max. Earth dist.	-601 Dec 31 j 11:02	4°♄12'26	10.87979 AU
direct	-606 Jul 10 j 19:29	28°♄52'24		morning rise	-600 Jan 17 j 17:24	6°♄16'05	
evening set	-606 Aug 17 j 17:38	0°♄		retrograde	-600 Apr 30 j 08:27	13°♄37'08	
conjunction	-606 Oct 20 j 19:05	5°♄52'41		opposition	-600 Jul 10 j 04:25	10°♄15'33	0°-28'-13
conjunction	-606 Nov 06 j 07:32	7°♄47'40	1°52'20	min. Earth dist.	-600 Jul 10 j 13:18	10°♄13'53	8.82313 AU
minimum elong	-606 Nov 06 j 07:35	7°♄47'40	1°52'20	direct	-600 Sep 17 j 11:27	6°♄56'46	
max. Earth dist.	-606 Nov 05 j 23:34	7°♄45'20	11.14315 AU	evening set	-600 Dec 26 j 02:02	14°♄06'19	
morning rise	-606 Nov 22 j 18:38	9°♄42'16		conjunction	-599 Jan 11 j 21:08	16°♄07'56	0°-37'-2
retrograde	-605 Jan 16 j 21:22	15°♄		minimum elong	-599 Jan 11 j 21:06	16°♄07'56	0°37'03
retrograde	-605 Mar 02 j 18:19	16°♄35'59		max. Earth dist.	-599 Jan 11 j 11:31	16°♄05'01	10.76381 AU
opposition	-605 Apr 18 j 05:05	15°♄♄		morning rise	-599 Jan 28 j 19:32	18°♄10'39	
opposition	-605 May 12 j 06:55	13°♄19'19	2°06'21	retrograde	-599 May 13 j 07:45	25°♄41'33	
min. Earth dist.	-605 May 12 j 14:21	13°♄17'58	9.14535 AU	opposition	-599 Jul 22 j 22:26	22°♄18'23	-1°-3'-3
direct	-605 Jul 22 j 14:00	10°♄00'43		min. Earth dist.	-599 Jul 23 j 05:53	22°♄16'58	8.70037 AU
evening set	-605 Oct 14 j 00:25	15°♄		direct	-599 Sep 29 j 15:51	18°♄58'48	
conjunction	-605 Nov 17 j 10:28	18°♄53'42	1°33'56	evening set	-598 Jan 07 j 07:56	26°♄15'25	
minimum elong	-605 Nov 17 j 10:31	18°♄53'43	1°33'55	conjunction	-598 Jan 24 j 05:25	28°♄19'23	-1°-4'-37
max. Earth dist.	-605 Nov 17 j 01:42	18°♄51'08	11.13897 AU	minimum elong	-598 Jan 24 j 05:23	28°♄19'22	1°04'38
morning rise	-605 Dec 03 j 22:12	20°♄48'38		max. Earth dist.	-598 Jan 23 j 20:43	28°♄16'43	10.63561 AU
retrograde	-604 Mar 13 j 10:34	27°♄44'42		morning rise	-598 Feb 06 j 21:27	0°♄	
opposition	-604 May 23 j 05:29	24°♄27'32	1°41'36	morning rise	-598 Feb 10 j 06:53	0°♄24'39	
min. Earth dist.	-604 May 23 j 13:07	24°♄26'08	9.12808 AU	retrograde	-598 May 26 j 16:32	8°♄06'16	
direct	-604 Aug 02 j 06:48	21°♄09'26		opposition	-598 Aug 04 j 23:05	4°♄41'27	-1°-36'-3
evening set	-604 Nov 11 j 01:25	28°♄06'32		min. Earth dist.	-598 Aug 05 j 05:09	4°♄40'17	8.56860 AU
conjunction	-604 Nov 27 j 14:13	0°♄02'05	1°11'55	direct	-598 Oct 12 j 02:35	1°♄20'49	
minimum elong	-604 Nov 27 j 14:15	0°♄02'06	1°11'54	evening set	-597 Jan 20 j 00:03	8°♄45'46	
max. Earth dist.	-604 Nov 27 j 05:22	29°♄59'30	11.10952 AU	conjunction	-597 Feb 06 j 00:14	10°♄52'18	-1°-29'-52
morning rise	-604 Nov 27 j 07:05	0°♄		minimum elong	-597 Feb 06 j 00:11	10°♄52'17	1°29'54
retrograde	-604 Dec 14 j 03:06	1°♄57'46		max. Earth dist.	-597 Feb 05 j 16:32	10°♄49'53	10.50141 AU
retrograde	-603 Mar 25 j 08:52	8°♄57'44		morning rise	-597 Feb 23 j 05:05	13°♄00'18	
opposition	-603 Jun 04 j 05:41	5°♄39'50	1°12'52	retrograde	-597 Mar 12 j 00:25	15°♄	
min. Earth dist.	-603 Jun 04 j 13:37	5°♄38'22	9.08579 AU	retrograde	-597 Jun 09 j 10:38	20°♄53'01	
direct	-603 Aug 13 j 23:31	2°♄21'58		opposition	-597 Aug 18 j 06:36	17°♄26'33	-2°-5'-26
evening set	-603 Nov 22 j 06:29	9°♄19'44		min. Earth dist.	-597 Aug 18 j 11:30	17°♄25'35	8.43424 AU
conjunction	-603 Dec 08 j 20:10	11°♄16'14	0°46'59	direct	-597 Sep 22 j 04:33	15°♄♄	
minimum elong	-603 Dec 08 j 20:12	11°♄16'14	0°46'58	direct	-597 Oct 24 j 19:42	14°♄04'40	
max. Earth dist.	-603 Dec 08 j 10:22	11°♄13'20	11.05551 AU	evening set	-597 Nov 25 j 21:51	15°♄	
morning rise	-603 Dec 25 j 10:53	13°♄13'06		conjunction	-596 Feb 02 j 03:14	21°♄38'55	
retrograde	-602 Apr 06 j 09:41	20°♄18'31		conjunction	-596 Feb 19 j 06:37	23°♄48'11	-1°-51'-19
opposition	-602 Jun 16 j 09:01	16°♄59'37	0°40'59	minimum elong	-596 Feb 19 j 06:34	23°♄48'10	1°51'21
				max. Earth dist.	-596 Feb 19 j 00:50	23°♄46'21	10.36776 AU

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

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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 03:59	13°♌04'00		morning rise	-578 Nov 07 j 01:55	23°♊55'59	
	-584 Sep 13 j 14:22	15°♌			-577 Jan 13 j 17:57	0°♌	
retrograde	-584 Dec 06 j 07:40	20°♌29'14		retrograde	-577 Feb 14 j 11:24	0°♌49'36	
opposition	-583 Feb 11 j 17:13	17°♌08'18	2°04'15		-577 Mar 18 j 21:57	30°♌	
min. Earth dist.	-583 Feb 11 j 12:14	17°♌09'17	8.57279 AU	opposition	-577 Apr 25 j 12:36	27°♌33'12	2°33'22
	-583 Mar 13 j 06:49	15°♌		min. Earth dist.	-577 Apr 25 j 18:40	27°♌32'05	9.12059 AU
direct	-583 Apr 22 j 14:16	13°♌41'49		direct	-577 Jul 06 j 00:34	24°♌13'29	
	-583 Jun 01 j 13:58	15°♌			-577 Oct 05 j 00:59	0°♌	
evening set	-583 Aug 06 j 11:26	21°♌24'11		evening set	-577 Oct 16 j 06:56	1°♌15'43	
conjunction	-583 Aug 23 j 20:35	23°♌30'48	1°50'58	conjunction	-577 Nov 01 j 19:58	3°♌10'57	1°59'03
minimum elong	-583 Aug 23 j 20:32	23°♌30'47	1°50'58	minimum elong	-577 Nov 01 j 20:00	3°♌10'57	1°59'04
max. Earth dist.	-583 Aug 24 j 01:22	23°♌32'15	10.63895 AU	max. Earth dist.	-577 Nov 01 j 12:15	3°♌08'41	11.12968 AU
morning rise	-583 Sep 10 j 00:53	25°♌35'54		morning rise	-577 Nov 18 j 06:59	5°♌05'41	
	-583 Oct 20 j 20:57	0°♎		retrograde	-576 Feb 26 j 03:00	11°♌59'21	
retrograde	-583 Dec 18 j 14:45	2°♎52'13		opposition	-576 May 06 j 10:49	8°♌42'42	2°15'42
	-582 Feb 18 j 13:47	30°♌		min. Earth dist.	-576 May 06 j 17:47	8°♌41'25	9.13540 AU
opposition	-582 Feb 24 j 11:47	29°♌32'42	2°26'45	direct	-576 Jul 16 j 20:27	5°♌23'37	
min. Earth dist.	-582 Feb 24 j 08:23	29°♌33'21	8.70434 AU	evening set	-576 Oct 26 j 11:04	12°♌22'54	
direct	-582 May 05 j 22:39	26°♌07'26		conjunction	-576 Nov 11 j 23:34	14°♌18'01	1°42'26
	-582 Jul 16 j 17:29	0°♎		minimum elong	-576 Nov 11 j 23:37	14°♌18'01	1°42'26
evening set	-582 Aug 19 j 08:02	3°♎41'11		max. Earth dist.	-576 Nov 11 j 14:43	14°♌15'25	11.13222 AU
conjunction	-582 Sep 05 j 12:01	5°♎44'42	2°06'37		-576 Nov 17 j 23:13	15°♌	
minimum elong	-582 Sep 05 j 11:59	5°♎44'42	2°06'38	morning rise	-576 Nov 28 j 10:55	16°♌12'52	
max. Earth dist.	-582 Sep 05 j 14:17	5°♎45'24	10.76577 AU	retrograde	-575 Mar 08 j 17:51	23°♌08'09	
morning rise	-582 Sep 22 j 11:16	7°♎46'48		opposition	-575 May 18 j 09:16	19°♌50'56	1°52'58
retrograde	-582 Dec 30 j 17:44	14°♎55'32		min. Earth dist.	-575 May 18 j 17:48	19°♌49'22	9.12497 AU
opposition	-581 Mar 09 j 00:38	11°♎37'09	2°42'04	direct	-575 Jul 28 j 12:52	16°♌32'16	
min. Earth dist.	-581 Mar 08 j 22:42	11°♎37'31	8.82579 AU	evening set	-575 Nov 06 j 14:24	23°♌30'05	
direct	-581 May 18 j 21:41	8°♎13'10		conjunction	-575 Nov 23 j 02:53	25°♌25'30	1°21'56
evening set	-581 Aug 31 j 18:08	15°♎38'43		minimum elong	-575 Nov 23 j 02:56	25°♌25'31	1°21'55
conjunction	-581 Sep 17 j 17:32	17°♎39'34	2°16'23	max. Earth dist.	-575 Nov 22 j 16:16	25°♌22'23	11.10976 AU
minimum elong	-581 Sep 17 j 17:31	17°♎39'34	2°16'23	morning rise	-575 Dec 09 j 15:21	27°♌20'57	
max. Earth dist.	-581 Sep 17 j 18:03	17°♎39'43	10.87950 AU		-574 Jan 02 j 22:43	0°♏	
morning rise	-581 Oct 04 j 12:20	19°♎39'06		retrograde	-574 Mar 20 j 12:17	4°♏19'28	
retrograde	-580 Jan 11 j 14:58	26°♎41'43		opposition	-574 May 30 j 08:56	1°♏01'27	1°25'54
opposition	-580 Mar 20 j 08:36	23°♎24'16	2°50'07	min. Earth dist.	-574 May 30 j 18:28	0°♏59'42	9.08983 AU
min. Earth dist.	-580 Mar 20 j 08:59	23°♎24'12	8.93139 AU		-574 Jun 13 j 12:54	30°♌	
direct	-580 May 30 j 11:43	20°♎01'33		direct	-574 Aug 09 j 06:23	27°♌42'57	
evening set	-580 Sep 11 j 19:14	27°♎19'43			-574 Oct 02 j 09:14	0°♏	
conjunction	-580 Sep 28 j 14:43	29°♎18'23	2°20'15	evening set	-574 Nov 17 j 18:33	4°♏40'47	
minimum elong	-580 Sep 28 j 14:43	29°♎18'23	2°20'15	conjunction	-574 Dec 04 j 07:47	6°♏37'00	0°58'11
max. Earth dist.	-580 Sep 28 j 12:41	29°♎17'47	10.97528 AU	minimum elong	-574 Dec 04 j 07:49	6°♏37'00	0°58'10
	-580 Oct 04 j 11:16	0°♏		max. Earth dist.	-574 Dec 03 j 20:57	6°♏33'48	11.06313 AU
morning rise	-580 Oct 15 j 06:05	1°♏15'54		morning rise	-574 Dec 20 j 21:50	8°♏33'29	
retrograde	-579 Jan 22 j 08:06	8°♏13'58		retrograde	-573 Apr 01 j 11:01	15°♏36'51	
opposition	-579 Apr 01 j 12:30	4°♏57'12	2°51'06	opposition	-573 Jun 11 j 11:03	12°♏17'47	0°55'15
min. Earth dist.	-579 Apr 01 j 15:38	4°♏56'37	9.01725 AU	min. Earth dist.	-573 Jun 11 j 20:18	12°♏16'05	9.03122 AU
direct	-579 Jun 11 j 21:12	1°♏35'38		direct	-573 Aug 20 j 23:32	8°♏59'17	
evening set	-579 Sep 23 j 12:43	8°♏47'25		evening set	-573 Nov 29 j 01:19	15°♏58'42	
conjunction	-579 Oct 10 j 05:05	10°♏44'25	2°18'25	conjunction	-573 Dec 15 j 15:54	17°♏56'06	0°31'55
minimum elong	-579 Oct 10 j 05:06	10°♏44'25	2°18'25	minimum elong	-573 Dec 15 j 15:55	17°♏56'06	0°31'55
max. Earth dist.	-579 Oct 09 j 23:56	10°♏42'54	11.05015 AU	max. Earth dist.	-573 Dec 15 j 05:50	17°♏53'07	10.99381 AU
morning rise	-579 Oct 26 j 18:10	12°♏40'28		morning rise	-572 Jan 01 j 07:54	19°♏54'01	
retrograde	-578 Feb 02 j 22:24	19°♏35'31		retrograde	-572 Apr 12 j 16:41	27°♏03'50	
opposition	-578 Apr 13 j 13:31	16°♏19'07	2°45'21	opposition	-572 Jun 22 j 16:36	23°♏43'33	0°21'58
min. Earth dist.	-578 Apr 13 j 18:41	16°♏18'10	9.08089 AU	min. Earth dist.	-572 Jun 23 j 01:04	23°♏41'58	8.95101 AU
direct	-578 Jun 24 j 00:40	12°♏58'34		direct	-572 Aug 31 j 18:39	20°♏24'50	
evening set	-578 Oct 05 j 00:04	20°♏05'00		evening set	-572 Dec 09 j 12:55	27°♏27'27	
conjunction	-578 Oct 21 j 14:16	22°♏00'51	2°11'13	conjunction	-572 Dec 26 j 05:04	29°♏26'26	0°04'02
minimum elong	-578 Oct 21 j 14:17	22°♏00'51	2°11'13	minimum elong	-572 Dec 26 j 05:04	29°♏26'26	0°04'02
max. Earth dist.	-578 Oct 21 j 07:13	21°♏58'47	11.10208 AU	behind sun begin	-572 Dec 25 j 22:09	29°♏24'23	

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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 11:58	29° 28 '28"28		conjunction	-565 Mar 12 j 11:28	15° 18 '06"40	-2°-13'-37
max. Earth dist.	-572 Dec 25 j 18:51	29° 28 '23"23	10.90404 AU	minimum elong	-565 Mar 12 j 11:26	15° 18 '06"40	2°13'38
	-572 Dec 30 j 21:12	0° 28 '		max. Earth dist.	-565 Mar 12 j 11:11	15° 18 '06"35	10.17896 AU
morning rise	-571 Jan 11 j 23:31	1° 28 '26"09		morning rise	-565 Mar 30 j 01:37	17° 18 '21"55	
desc. node	-571 Feb 16 j 16:15	5° 28 '16"42		retrograde	-565 Jul 15 j 14:25	25° 18 '40"20	
retrograde	-571 Apr 25 j 05:37	8° 28 '43"50		opposition	-565 Sep 22 j 03:27	22° 18 '10"44	-2°-50'-55
opposition	-571 Jul 05 j 02:35	5° 28 '22"14	0°-12'-53	min. Earth dist.	-565 Sep 22 j 02:10	22° 18 '11"00	8.12979 AU
min. Earth dist.	-571 Jul 05 j 10:53	5° 28 '20"40	8.85198 AU	direct	-565 Nov 27 j 13:05	18° 18 '45"46	
direct	-571 Sep 12 j 15:14	2° 28 '03"05		evening set	-564 Mar 08 j 11:09	26° 18 '44"48	
evening set	-571 Dec 21 j 06:52	9° 28 '10"34					
				conjunction	-564 Mar 26 j 00:32	29° 18 '01"06	-2°-18'-40
conjunction	-570 Jan 07 j 00:52	11° 28 '11"25	0°-24'-40	minimum elong	-564 Mar 26 j 00:32	29° 18 '01"06	2°18'42
minimum elong	-570 Jan 07 j 00:51	11° 28 '11"24	0°24'40	max. Earth dist.	-564 Mar 26 j 02:56	29° 18 '01"53	10.08300 AU
max. Earth dist.	-570 Jan 06 j 14:35	11° 28 '08"18	10.79712 AU		-564 Apr 02 j 13:35	0° 18 '	
morning rise	-570 Jan 23 j 22:09	13° 28 '13"17		morning rise	-564 Apr 12 j 18:35	1° 18 '18"54	
retrograde	-570 May 08 j 00:06	20° 28 '40"12		retrograde	-564 Jul 29 j 09:02	9° 18 '43"47	
opposition	-570 Jul 17 j 18:16	17° 28 '17"09	0°-48'-4	opposition	-564 Oct 05 j 09:12	6° 18 '13"32	-2°-52'-26
min. Earth dist.	-570 Jul 18 j 02:11	17° 28 '15"39	8.73792 AU	min. Earth dist.	-564 Oct 05 j 06:08	6° 18 '14"10	8.04547 AU
direct	-570 Sep 24 j 17:20	13° 28 '57"21		direct	-564 Dec 10 j 13:08	2° 18 '47"23	
evening set	-569 Jan 02 j 08:44	21° 28 '11"13		evening set	-563 Mar 23 j 05:31	10° 18 '54"27	
conjunction	-569 Jan 19 j 05:03	23° 28 '14"16	0°-52'-50	conjunction	-563 Apr 09 j 23:20	13° 18 '13"06	-2°-15'-31
minimum elong	-569 Jan 19 j 05:01	23° 28 '14"16	0°52'51	minimum elong	-563 Apr 09 j 23:22	13° 18 '13"07	2°15'32
max. Earth dist.	-569 Jan 18 j 20:02	23° 28 '11"30	10.67714 AU	max. Earth dist.	-563 Apr 10 j 04:44	13° 18 '14"53	10.01106 AU
morning rise	-569 Feb 05 j 05:20	25° 28 '18"33		morning rise	-563 Apr 27 j 21:05	15° 18 '33"02	
	-569 Mar 20 j 21:49	0° 28 '		retrograde	-563 Aug 13 j 05:45	24° 18 '01"23	
retrograde	-569 May 21 j 04:32	2° 28 '55"48		opposition	-563 Oct 19 j 18:22	20° 18 '30"51	-2°-43'-24
	-569 Jul 24 j 09:43	30° 28 ' R		min. Earth dist.	-563 Oct 19 j 13:20	20° 18 '31"53	7.98725 AU
opposition	-569 Jul 30 j 16:10	29° 28 '31"14	-1°-22'-5	direct	-563 Dec 24 j 21:20	17° 18 '03"36	
min. Earth dist.	-569 Jul 30 j 22:52	29° 28 '29"57	8.61341 AU	evening set	-562 Apr 07 j 07:29	25° 18 '16"51	
direct	-569 Oct 07 j 02:24	26° 28 '10"38					
	-569 Dec 14 j 13:52	0° 28 '		conjunction	-562 Apr 25 j 05:37	27° 18 '37"24	-2°-3'-57
evening set	-568 Jan 14 j 20:18	3° 28 '32"14		minimum elong	-562 Apr 25 j 05:40	27° 18 '37"25	2°03'58
				max. Earth dist.	-562 Apr 25 j 13:30	27° 18 '39"59	9.96733 AU
conjunction	-568 Jan 31 j 19:22	5° 28 '37"44	-1°-19'-17	morning rise	-562 May 13 j 06:38	29° 18 '58"52	
minimum elong	-568 Jan 31 j 19:19	5° 28 '37"43	1°19'18		-562 May 13 j 10:08	0° 18 '	
max. Earth dist.	-568 Jan 31 j 12:45	5° 28 '35"41	10.54908 AU	retrograde	-562 Aug 28 j 01:55	8° 18 '27"20	
morning rise	-568 Feb 17 j 22:43	7° 28 '44"39		opposition	-562 Nov 03 j 05:03	4° 18 '56"53	-2°-23'-58
	-568 May 08 j 04:53	15° 28 '		min. Earth dist.	-562 Nov 02 j 22:26	4° 18 '58"16	7.95814 AU
retrograde	-568 Jun 02 j 18:48	15° 28 '32"51		direct	-561 Jan 08 j 09:55	1° 18 '28"41	
	-568 Jun 28 j 12:56	15° 28 ' R		evening set	-561 Apr 22 j 14:21	9° 18 '45"59	
opposition	-568 Aug 11 j 20:36	12° 28 '06"47	-1°-53'-16				
min. Earth dist.	-568 Aug 12 j 01:07	12° 28 '05"54	8.48387 AU	conjunction	-561 May 10 j 16:11	12° 18 '07"45	-1°-44'-30
direct	-568 Oct 18 j 16:43	8° 28 '45"14		minimum elong	-561 May 10 j 16:15	12° 18 '07"47	1°44'31
	-567 Jan 16 j 08:44	15° 28 '		max. Earth dist.	-561 May 11 j 01:47	12° 18 '10"55	9.95367 AU
evening set	-567 Jan 26 j 18:44	16° 28 '15"42		morning rise	-561 May 28 j 19:36	14° 18 '30"03	
					-561 Jun 01 j 17:06	15° 18 '	
conjunction	-567 Feb 12 j 20:48	18° 28 '23"51	-1°-42'-34	retrograde	-561 Sep 11 j 20:33	22° 18 '55"26	
minimum elong	-567 Feb 12 j 20:45	18° 28 '23"50	1°42'35	opposition	-561 Nov 17 j 15:36	19° 18 '25"32	-1°-55'-18
max. Earth dist.	-567 Feb 12 j 16:19	18° 28 '22"26	10.41885 AU	min. Earth dist.	-561 Nov 17 j 07:49	19° 18 '27"09	7.95931 AU
morning rise	-567 Mar 02 j 03:28	20° 28 '33"30		direct	-560 Jan 23 j 01:16	15° 18 '56"37	
retrograde	-567 Jun 16 j 17:37	28° 28 '32"44		evening set	-560 May 06 j 23:10	24° 18 '15"38	
opposition	-567 Aug 25 j 08:15	25° 28 '05"17	-2°-19'-43				
min. Earth dist.	-567 Aug 25 j 10:30	25° 28 '04"50	8.35554 AU	conjunction	-560 May 25 j 03:30	26° 18 '37"48	-1°-18'-28
direct	-567 Oct 31 j 14:50	21° 28 '42"40		minimum elong	-560 May 25 j 03:33	26° 18 '37"49	1°18'28
evening set	-566 Feb 09 j 04:36	29° 28 '22"42		max. Earth dist.	-560 May 25 j 14:14	26° 18 '41"20	9.97088 AU
	-566 Feb 14 j 03:26	0° 28 '		morning rise	-560 Jun 12 j 07:59	29° 18 '00"02	
					-560 Jun 20 j 04:56	0° 18 '	
conjunction	-566 Feb 26 j 09:58	1° 18 '33"36	-2°-1'-10	retrograde	-560 Sep 25 j 11:05	7° 18 '19"31	
minimum elong	-566 Feb 26 j 09:56	1° 18 '33"35	2°01'11	opposition	-560 Dec 01 j 00:13	3° 18 '50"31	-1°-19'-27
max. Earth dist.	-566 Feb 26 j 07:35	1° 18 '32"50	10.29314 AU	min. Earth dist.	-560 Nov 30 j 15:53	3° 18 '52"15	7.99153 AU
morning rise	-566 Mar 15 j 20:15	3° 18 '46"04		direct	-559 Feb 05 j 17:59	0° 18 '21"09	
retrograde	-566 Jul 01 j 00:31	11° 18 '55"40		evening set	-559 May 22 j 06:48	8° 18 '39"23	
opposition	-566 Sep 08 j 02:49	8° 18 '27"01	-2°-39'-32				
min. Earth dist.	-566 Sep 08 j 03:06	8° 18 '26"57	8.23523 AU	conjunction	-559 Jun 09 j 12:02	11° 18 '00"59	0°-47'-41
direct	-566 Nov 13 j 21:47	5° 18 '03"15		minimum elong	-559 Jun 09 j 12:04	11° 18 '00"59	0°47'42
evening set	-565 Feb 23 j 02:19	12° 18 '53"01		max. Earth dist.	-559 Jun 09 j 23:10	11° 18 '04"36	10.01901 AU

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

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

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

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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 21:15	7°♄40'42	10.77209 AU	retrograde	-516 Mar 09 j 20:48	24°♌55'46	
morning rise	-523 Sep 23 j 16:38	9°♄41'35		opposition	-516 May 19 j 13:13	21°♌38'37	1°49'57
retrograde	-523 Dec 31 j 23:14	16°♄49'58		min. Earth dist.	-516 May 19 j 22:07	21°♌36'59	9.13174 AU
opposition	-522 Mar 10 j 06:37	13°♄31'38	2°43'20	direct	-516 Jul 29 j 17:21	18°♌20'03	
min. Earth dist.	-522 Mar 10 j 04:22	13°♄32'04	8.83267 AU	evening set	-516 Nov 07 j 16:40	25°♌17'21	
direct	-522 May 20 j 03:03	10°♄07'46					
evening set	-522 Sep 01 j 23:42	17°♄32'48		conjunction	-516 Nov 24 j 05:15	27°♌12'43	1°19'18
				minimum elong	-516 Nov 24 j 05:17	27°♌12'43	1°19'17
conjunction	-522 Sep 18 j 22:48	19°♄33'28	2°17'05	max. Earth dist.	-516 Nov 23 j 18:45	27°♌09'38	11.11596 AU
minimum elong	-522 Sep 18 j 22:47	19°♄33'28	2°17'04	morning rise	-516 Dec 10 j 17:51	29°♌08'08	
max. Earth dist.	-522 Sep 18 j 23:54	19°♄33'48	10.88698 AU		-516 Dec 18 j 08:58	0°♌	
morning rise	-522 Oct 05 j 17:16	21°♄32'50		retrograde	-515 Mar 21 j 14:51	6°♌06'26	
retrograde	-521 Jan 12 j 19:39	28°♄35'01		opposition	-515 May 31 j 12:26	2°♌48'26	1°22'29
opposition	-521 Mar 22 j 14:15	25°♄17'39	2°50'32	min. Earth dist.	-515 May 31 j 21:35	2°♌46'46	9.09525 AU
min. Earth dist.	-521 Mar 22 j 14:52	25°♄17'32	8.93950 AU		-515 Jul 16 j 05:56	30°♌	
direct	-521 Jun 01 j 18:20	21°♄55'00		direct	-515 Aug 10 j 09:47	29°♌30'03	
evening set	-521 Sep 14 j 00:10	29°♄12'33			-515 Sep 04 j 04:49	0°♌	
	-521 Sep 20 j 18:46	0°♌		evening set	-515 Nov 18 j 20:34	6°♌27'28	
conjunction	-521 Sep 30 j 19:18	1°♌11'02	2°20'16	conjunction	-515 Dec 05 j 10:01	8°♌23'38	0°55'16
minimum elong	-521 Sep 30 j 19:17	1°♌11'02	2°20'15	minimum elong	-515 Dec 05 j 10:03	8°♌23'39	0°55'15
max. Earth dist.	-521 Sep 30 j 16:59	1°♌10'21	10.98388 AU	max. Earth dist.	-515 Dec 04 j 23:49	8°♌20'38	11.06780 AU
morning rise	-521 Oct 17 j 10:32	3°♌08'23		morning rise	-515 Dec 22 j 00:06	10°♌20'05	
retrograde	-520 Jan 24 j 11:56	10°♌05'58		retrograde	-514 Apr 02 j 14:55	17°♌23'20	
opposition	-520 Apr 02 j 17:53	6°♌49'16	2°50'40	opposition	-514 Jun 12 j 14:18	14°♌04'18	0°51'34
min. Earth dist.	-520 Apr 02 j 20:52	6°♌48'42	9.02620 AU	min. Earth dist.	-514 Jun 12 j 23:05	14°♌02'40	9.03500 AU
direct	-520 Jun 13 j 02:32	3°♌27'48		direct	-514 Aug 22 j 03:04	10°♌45'53	
evening set	-520 Sep 24 j 16:49	10°♌38'52		evening set	-514 Nov 30 j 03:16	17°♌44'58	
conjunction	-520 Oct 11 j 08:59	12°♌35'42	2°17'46	conjunction	-514 Dec 16 j 17:54	19°♌42'21	0°28'51
minimum elong	-520 Oct 11 j 09:00	12°♌35'42	2°17'46	minimum elong	-514 Dec 16 j 17:55	19°♌42'21	0°28'51
max. Earth dist.	-520 Oct 11 j 04:01	12°♌34'14	11.05928 AU	max. Earth dist.	-514 Dec 16 j 07:36	19°♌39'18	10.99677 AU
morning rise	-520 Oct 27 j 21:59	14°♌31'37		morning rise	-513 Jan 02 j 10:02	21°♌40'16	
retrograde	-519 Feb 04 j 01:38	21°♌26'14		retrograde	-513 Apr 14 j 20:19	28°♌50'02	
opposition	-519 Apr 14 j 18:25	18°♌09'52	2°44'09	opposition	-513 Jun 24 j 19:46	25°♌29'46	0°18'09
min. Earth dist.	-519 Apr 14 j 22:42	18°♌09'04	9.08998 AU	min. Earth dist.	-513 Jun 25 j 04:35	25°♌28'08	8.95309 AU
direct	-519 Jun 25 j 06:36	14°♌49'26		direct	-513 Sep 02 j 20:20	22°♌11'06	
evening set	-519 Oct 06 j 03:32	21°♌55'09		evening set	-513 Dec 11 j 14:50	29°♌13'31	
					-513 Dec 18 j 04:22	0°♌	
conjunction	-519 Oct 22 j 17:44	23°♌50'52	2°09'57	conjunction	-513 Dec 28 j 06:59	1°♌12'28	0°00'53
minimum elong	-519 Oct 22 j 17:46	23°♌50'53	2°09'57	minimum elong	-513 Dec 28 j 06:58	1°♌12'28	0°00'53
max. Earth dist.	-519 Oct 22 j 11:40	23°♌49'06	11.11105 AU	behind sun begin	-513 Dec 27 j 23:59	1°♌10'24	
morning rise	-519 Nov 08 j 05:15	25°♌45'53		behind sun end	-513 Dec 28 j 13:58	1°♌14'32	
	-519 Dec 19 j 11:20	0°♌		max. Earth dist.	-513 Dec 27 j 19:56	1°♌09'11	10.90535 AU
retrograde	-518 Feb 15 j 16:32	2°♌39'04		desc. node	-512 Jan 08 j 13:05	2°♌33'07	
	-518 Apr 18 j 05:07	30°♌		morning rise	-512 Jan 14 j 01:41	3°♌12'14	
opposition	-518 Apr 26 j 17:01	29°♌22'45	2°31'28	retrograde	-512 Apr 26 j 07:05	10°♌29'59	
min. Earth dist.	-518 Apr 26 j 22:36	29°♌21'43	9.12924 AU	opposition	-512 Jul 06 j 05:40	7°♌08'21	0°-16'-41
direct	-518 Jul 07 j 05:27	26°♌03'11		min. Earth dist.	-512 Jul 06 j 14:44	7°♌06'39	8.85243 AU
	-518 Sep 18 j 16:26	0°♌		direct	-512 Sep 13 j 17:33	3°♌49'11	
evening set	-518 Oct 17 j 09:59	3°♌04'43		evening set	-512 Dec 22 j 08:48	10°♌56'37	
conjunction	-518 Nov 02 j 22:58	4°♌59'51	1°57'15	conjunction	-511 Jan 08 j 02:56	12°♌57'29	0°-27'-42
minimum elong	-518 Nov 02 j 23:00	4°♌59'52	1°57'15	minimum elong	-511 Jan 08 j 02:55	12°♌57'29	0°27'43
max. Earth dist.	-518 Nov 02 j 15:27	4°♌57'39	11.13800 AU	max. Earth dist.	-511 Jan 07 j 16:35	12°♌54'22	10.79673 AU
morning rise	-518 Nov 19 j 09:58	6°♌54'30		morning rise	-511 Jan 25 j 00:24	14°♌59'24	
retrograde	-517 Feb 27 j 05:38	13°♌47'48		retrograde	-511 May 09 j 03:13	22°♌26'30	
opposition	-517 May 08 j 15:02	10°♌31'12	2°13'11	opposition	-511 Jul 18 j 21:10	19°♌03'24	0°-51'-42
min. Earth dist.	-517 May 08 j 22:22	10°♌29'52	9.14323 AU	min. Earth dist.	-511 Jul 19 j 05:20	19°♌01'51	8.73665 AU
direct	-517 Jul 18 j 23:08	7°♌12'16		direct	-511 Sep 25 j 20:54	15°♌43'35	
evening set	-517 Oct 28 j 13:43	14°♌10'57		evening set	-510 Jan 03 j 10:48	22°♌57'29	
	-517 Nov 04 j 15:55	15°♌					
conjunction	-517 Nov 14 j 02:06	16°♌05'58	1°40'10	conjunction	-510 Jan 20 j 07:19	25°♌00'36	0°-55'-41
minimum elong	-517 Nov 14 j 02:09	16°♌05'59	1°40'10	minimum elong	-510 Jan 20 j 07:17	25°♌00'35	0°55'42
max. Earth dist.	-517 Nov 13 j 16:35	16°♌03'11	11.13961 AU	max. Earth dist.	-510 Jan 19 j 22:50	24°♌57'59	10.67495 AU
morning rise	-517 Nov 30 j 13:36	18°♌00'46		morning rise	-510 Feb 06 j 07:37	27°♌04'55	

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

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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 14:17	10°♄57'13	0°22'29	minimum elong	-492 Sep 25 j 02:54	26°♃26'17	2°19'40
max. Earth dist.	-498 Jul 10 j 23:48	11°♄00'15	10.19897 AU	max. Earth dist.	-492 Sep 25 j 02:39	26°♃26'13	10.93206 AU
morning rise	-498 Jul 28 j 12:30	13°♄13'41		morning rise	-492 Oct 11 j 19:34	28°♃24'32	
retrograde	-498 Nov 07 j 11:49	21°♄03'57		retrograde	-492 Oct 25 j 20:01	0°♄	
opposition	-497 Jan 13 j 03:47	17°♄39'09	0°47'34	retrograde	-491 Jan 18 j 20:39	5°♄24'05	
min. Earth dist.	-497 Jan 12 j 19:59	17°♄40'44	8.25584 AU	opposition	-491 Mar 28 j 21:32	2°♄06'36	2°51'35
direct	-497 Mar 22 j 15:53	14°♄10'14		min. Earth dist.	-491 Mar 28 j 22:02	2°♄06'30	8.98029 AU
evening set	-497 Jul 06 j 23:20	22°♄12'58		direct	-491 Apr 28 j 09:02	30°♃♄	
conjunction	-497 Jul 24 j 20:58	24°♄27'36	0°53'56	direct	-491 Jun 08 j 05:34	28°♃44'10	
minimum elong	-497 Jul 24 j 20:55	24°♄27'35	0°53'57	evening set	-491 Jul 18 j 09:24	0°♄	
max. Earth dist.	-497 Jul 25 j 05:51	24°♄30'24	10.31721 AU	evening set	-491 Sep 20 j 01:42	5°♄57'59	
morning rise	-497 Aug 11 j 14:14	26°♄40'51		conjunction	-491 Oct 06 j 19:17	7°♄55'33	2°19'36
retrograde	-497 Sep 09 j 02:47	0°♄		minimum elong	-491 Oct 06 j 19:18	7°♄55'33	2°19'36
opposition	-497 Nov 20 j 16:30	4°♄20'23		max. Earth dist.	-491 Oct 06 j 17:24	7°♄54'59	11.02034 AU
min. Earth dist.	-496 Jan 26 j 14:45	0°♄57'06	1°24'22	morning rise	-491 Oct 23 j 09:05	9°♄52'04	
direct	-496 Jan 26 j 07:27	0°♄58'33	8.38024 AU	retrograde	-490 Jan 30 j 10:53	16°♄47'42	
evening set	-496 Feb 07 j 16:34	30°♃♄		opposition	-490 Apr 09 j 23:01	13°♄30'48	2°47'53
conjunction	-496 Apr 04 j 17:51	27°♄28'55		min. Earth dist.	-490 Apr 10 j 01:40	13°♄30'19	9.05852 AU
minimum elong	-496 May 30 j 11:19	0°♄		direct	-490 Jun 20 j 10:08	10°♄09'34	
max. Earth dist.	-496 Jul 19 j 22:56	5°♄23'35		evening set	-490 Oct 01 j 14:30	17°♄17'21	
morning rise	-496 Aug 06 j 15:40	7°♄34'55	1°21'46	conjunction	-490 Oct 18 j 05:28	19°♄13'29	2°14'03
retrograde	-496 Aug 06 j 15:36	7°♄34'54	1°21'47	minimum elong	-490 Oct 18 j 05:29	19°♄13'29	2°14'03
opposition	-496 Aug 06 j 23:43	7°♄37'25	10.44570 AU	max. Earth dist.	-490 Oct 18 j 01:06	19°♄12'12	11.08766 AU
direct	-496 Oct 12 j 14:39	15°♄		morning rise	-490 Nov 03 j 17:31	21°♄08'48	
evening set	-496 Dec 02 j 12:21	17°♄14'03		retrograde	-489 Feb 10 j 23:59	28°♄02'08	
conjunction	-495 Jan 24 j 04:13	15°♃♄		opposition	-489 Apr 21 j 22:00	24°♄45'34	2°37'47
minimum elong	-495 Feb 07 j 18:48	13°♄52'14	1°55'42	min. Earth dist.	-489 Apr 22 j 02:39	24°♄44'42	9.11441 AU
max. Earth dist.	-495 Feb 07 j 13:05	13°♄53'22	8.51162 AU	direct	-489 Jul 02 j 10:23	21°♄25'24	
morning rise	-495 Apr 18 j 11:54	10°♄24'59		evening set	-489 Oct 12 j 22:06	28°♄28'18	
retrograde	-495 Jul 05 j 11:09	15°♄		conjunction	-489 Oct 26 j 02:49	0°♄	
opposition	-495 Aug 02 j 11:15	18°♄11'02		minimum elong	-489 Oct 29 j 11:24	0°♄23'33	2°03'24
direct	-495 Aug 19 j 22:34	20°♄19'00	1°44'49	max. Earth dist.	-489 Oct 29 j 11:26	0°♄23'34	2°03'25
evening set	-495 Aug 19 j 22:31	20°♄18'59	1°44'49	morning rise	-489 Oct 29 j 05:05	0°♄21'42	11.13182 AU
conjunction	-495 Aug 20 j 04:36	20°♄20'52	10.57750 AU	retrograde	-489 Nov 14 j 22:40	2°♄18'14	
minimum elong	-495 Sep 06 j 04:46	22°♄25'26		opposition	-488 Feb 22 j 11:47	9°♄10'49	
max. Earth dist.	-495 Sep 06 j 04:46	22°♄25'26		min. Earth dist.	-488 May 02 j 19:27	5°♄54'16	2°21'51
morning rise	-495 Dec 15 j 00:28	29°♄45'22		direct	-488 May 03 j 00:57	5°♄53'16	9.14609 AU
retrograde	-494 Feb 20 j 16:00	26°♄24'56	2°20'29	evening set	-488 Jul 13 j 06:08	2°♄35'03	
opposition	-494 Feb 20 j 12:20	26°♄25'39	8.64313 AU	conjunction	-488 Oct 23 j 02:10	9°♄34'21	
min. Earth dist.	-494 May 01 j 21:12	22°♄58'45		minimum elong	-488 Nov 08 j 14:46	11°♄29'14	1°48'10
direct	-494 May 01 j 21:12	22°♄58'45		max. Earth dist.	-488 Nov 08 j 14:49	11°♄29'14	1°48'10
evening set	-494 Aug 10 j 09:41	0°♄		morning rise	-488 Nov 08 j 07:53	11°♄27'13	11.15122 AU
conjunction	-494 Aug 15 j 12:09	0°♄36'05		retrograde	-488 Nov 25 j 01:57	13°♄23'46	
minimum elong	-494 Sep 01 j 18:02	2°♄40'52	2°02'20	opposition	-488 Dec 09 j 11:52	15°♄	
max. Earth dist.	-494 Sep 01 j 18:00	2°♄40'51	2°02'20	min. Earth dist.	-487 Mar 05 j 03:29	20°♄17'11	
morning rise	-494 Sep 01 j 21:20	2°♄41'52	10.70617 AU	opposition	-487 Mar 05 j 03:29	20°♄17'11	
retrograde	-494 Sep 18 j 19:05	4°♄44'09		min. Earth dist.	-487 May 14 j 16:36	17°♄00'26	2°00'41
opposition	-494 Dec 27 j 03:12	11°♄55'54		direct	-487 May 14 j 22:44	16°♄59'19	9.15239 AU
min. Earth dist.	-493 Mar 05 j 07:08	8°♄36'39	2°38'07	evening set	-487 Jun 13 j 04:36	15°♄	
direct	-493 Mar 05 j 05:10	8°♄37'01	8.76854 AU	conjunction	-487 Jul 25 j 00:28	13°♄41'56	
evening set	-493 May 15 j 00:09	5°♄11'40		minimum elong	-487 Sep 03 j 16:23	15°♄	
conjunction	-493 Aug 28 j 01:59	12°♄40'31		max. Earth dist.	-487 Nov 03 j 04:42	20°♄39'02	
minimum elong	-493 Sep 14 j 02:57	14°♄42'24	2°13'58	morning rise	-487 Nov 19 j 17:11	22°♄34'01	1°28'54
max. Earth dist.	-493 Sep 14 j 02:55	14°♄42'24	2°13'58	retrograde	-487 Nov 19 j 17:13	22°♄34'02	1°28'53
morning rise	-493 Sep 14 j 03:55	14°♄42'41	10.82598 AU	max. Earth dist.	-487 Nov 19 j 09:29	22°♄31'46	11.14512 AU
retrograde	-493 Sep 30 j 23:27	16°♄42'56		morning rise	-487 Dec 06 j 04:59	24°♄28'53	
opposition	-492 Jan 08 j 01:34	23°♄47'53		retrograde	-486 Feb 02 j 13:36	0°♄	
min. Earth dist.	-492 Mar 16 j 16:43	20°♄29'36	2°48'27	opposition	-486 Mar 16 j 19:53	1°♄24'44	
direct	-492 Mar 16 j 15:42	20°♄29'48	8.88243 AU	min. Earth dist.	-486 Apr 29 j 07:44	30°♃♄	
evening set	-492 May 26 j 19:35	17°♄05'54		opposition	-486 May 26 j 14:43	28°♄07'30	1°35'00
conjunction	-492 Sep 25 j 02:55	26°♄26'17	2°19'41	min. Earth dist.	-486 May 26 j 22:03	28°♄06'10	9.13318 AU
				direct	-486 Aug 05 j 14:43	24°♄49'31	
				evening set	-486 Oct 29 j 10:50	0°♄	

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

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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 17:37	30°R Υ		conjunction	-468 Jul 17 j 14:04	18° E 23'12	0°39'21
direct	-473 Jan 03 j 02:16	26° Υ 45'23		minimum elong	-468 Jul 17 j 14:03	18° E 23'11	0°39'22
	-473 Mar 04 j 19:38	0° E		max. Earth dist.	-468 Jul 18 j 00:24	18° E 26'28	10.24924 AU
evening set	-473 Apr 16 j 23:33	5° E 01'52		morning rise	-468 Aug 04 j 09:51	20° E 38'10	
				retrograde	-468 Nov 13 j 22:36	28° E 23'18	
conjunction	-473 May 05 j 00:00	7° E 23'27	-1°-52'-46	opposition	-467 Jan 19 j 17:23	24° E 59'07	1°07'30
minimum elong	-473 May 05 j 00:04	7° E 23'28	1°52'47	min. Earth dist.	-467 Jan 19 j 09:55	25° E 00'38	8.31136 AU
max. Earth dist.	-473 May 05 j 07:18	7° E 25'51	9.93865 AU	direct	-467 Mar 29 j 12:42	21° E 30'25	
morning rise	-473 May 23 j 02:47	9° E 45'46		evening set	-467 Jul 13 j 19:45	29° E 29'33	
	-473 Jul 07 j 06:07	15° E			-467 Jul 17 j 22:32	0° E	
retrograde	-473 Sep 06 j 12:36	18° E 13'35					
	-473 Nov 08 j 23:47	15°R E		conjunction	-467 Jul 31 j 14:50	1° E 42'35	1°09'06
opposition	-473 Nov 12 j 10:20	14° E 42'48	-2°-7'-14	minimum elong	-467 Jul 31 j 14:47	1° E 42'34	1°09'08
min. Earth dist.	-473 Nov 12 j 03:57	14° E 44'08	7.93650 AU	max. Earth dist.	-467 Jul 31 j 23:25	1° E 45'17	10.37700 AU
direct	-472 Jan 17 j 18:10	11° E 13'31		morning rise	-467 Aug 18 j 05:30	3° E 54'12	
	-472 Mar 23 j 22:24	15° E		retrograde	-467 Nov 26 j 22:10	11° E 28'47	
evening set	-472 May 01 j 08:08	19° E 32'55		opposition	-466 Feb 02 j 01:01	8° E 06'18	1°41'38
				min. Earth dist.	-466 Feb 01 j 18:14	8° E 07'39	8.44369 AU
conjunction	-472 May 19 j 11:41	21° E 55'18	-1°-29'-1	direct	-466 Apr 12 j 11:32	4° E 38'38	
minimum elong	-472 May 19 j 11:44	21° E 55'19	1°29'01	evening set	-466 Jul 27 j 14:05	12° E 29'22	
max. Earth dist.	-472 May 19 j 21:17	21° E 58'27	9.94055 AU				
morning rise	-472 Jun 06 j 16:08	24° E 17'58		conjunction	-466 Aug 14 j 03:58	14° E 39'01	1°34'33
	-472 Jul 26 j 21:52	0° E		minimum elong	-466 Aug 14 j 03:55	14° E 39'00	1°34'34
retrograde	-472 Sep 20 j 04:28	2° E 41'07		max. Earth dist.	-466 Aug 14 j 10:59	14° E 41'12	10.51155 AU
	-472 Nov 15 j 23:29	30°R E			-466 Aug 16 j 23:45	15° E	
opposition	-472 Nov 25 j 20:23	29° E 11'03	-1°-33'-46	morning rise	-466 Aug 31 j 13:00	16° E 47'09	
min. Earth dist.	-472 Nov 25 j 12:20	29° E 12'44	7.95478 AU	retrograde	-466 Dec 09 j 14:53	24° E 11'54	
direct	-471 Jan 31 j 11:42	25° E 41'12		opposition	-465 Feb 15 j 01:54	20° E 51'00	2°09'37
	-471 Apr 13 j 03:58	0° E		min. Earth dist.	-465 Feb 14 j 19:56	20° E 52'10	8.57945 AU
evening set	-471 May 16 j 16:59	4° E 00'53		direct	-465 Apr 26 j 01:28	17° E 24'34	
				evening set	-465 Aug 09 j 20:57	25° E 06'30	
conjunction	-471 Jun 03 j 22:12	6° E 23'06	0°-59'-45				
minimum elong	-471 Jun 03 j 22:15	6° E 23'07	0°59'45	conjunction	-465 Aug 27 j 05:30	27° E 12'50	1°54'45
max. Earth dist.	-471 Jun 04 j 09:32	6° E 26'49	9.97599 AU	minimum elong	-465 Aug 27 j 05:27	27° E 12'49	1°54'45
morning rise	-471 Jun 22 j 02:51	8° E 45'08		max. Earth dist.	-465 Aug 27 j 11:19	27° E 14'37	10.64604 AU
retrograde	-471 Oct 04 j 15:05	17° E 00'54		morning rise	-465 Sep 13 j 08:58	29° E 17'39	
opposition	-471 Dec 10 j 03:25	13° E 31'56	0°-54'-42		-465 Sep 19 j 08:00	0° E	
min. Earth dist.	-471 Dec 09 j 18:24	13° E 33'49	8.00563 AU	retrograde	-465 Dec 21 j 23:28	6° E 33'34	
direct	-470 Feb 15 j 04:43	10° E 01'51		opposition	-464 Feb 27 j 20:29	3° E 14'05	2°30'39
evening set	-470 May 31 j 22:51	18° E 19'16		min. Earth dist.	-464 Feb 27 j 16:07	3° E 14'55	8.71196 AU
					-464 Apr 23 j 08:14	30°R E	
conjunction	-470 Jun 19 j 04:01	20° E 40'21	0°-27'-5	direct	-464 May 08 j 07:10	29° E 48'57	
minimum elong	-470 Jun 19 j 04:02	20° E 40'22	0°27'06		-464 May 23 j 06:04	0° E	
max. Earth dist.	-470 Jun 19 j 16:02	20° E 44'15	10.04246 AU	evening set	-464 Aug 21 j 16:30	7° E 22'06	
morning rise	-470 Jul 07 j 07:12	23° E 00'48					
	-470 Sep 13 j 20:45	0° E		conjunction	-464 Sep 07 j 19:56	9° E 25'22	2°09'10
retrograde	-470 Oct 18 j 18:49	1° E 07'12		minimum elong	-464 Sep 07 j 19:53	9° E 25'21	2°09'10
	-470 Nov 23 j 00:20	30°R E		max. Earth dist.	-464 Sep 07 j 23:52	9° E 26'33	10.77404 AU
opposition	-470 Dec 24 j 06:02	27° E 39'40	0°-12'-56	morning rise	-464 Sep 24 j 18:24	11° E 27'12	
min. Earth dist.	-470 Dec 23 j 21:03	27° E 41'31	8.08561 AU	retrograde	-463 Jan 02 j 01:16	18° E 35'30	
direct	-469 Mar 01 j 19:10	24° E 09'42		opposition	-463 Mar 11 j 09:13	15° E 17'13	2°44'23
asc. node	-469 Apr 19 j 21:10	26° E 14'06		min. Earth dist.	-463 Mar 11 j 07:21	15° E 17'34	8.83494 AU
	-469 May 27 j 10:08	0° E		direct	-463 May 21 j 05:52	11° E 53'22	
evening set	-469 Jun 15 j 22:49	2° E 22'39		evening set	-463 Sep 03 j 01:53	19° E 18'12	
conjunction	-469 Jul 04 j 02:02	4° E 41'41	0°06'43	conjunction	-463 Sep 20 j 00:37	21° E 18'47	2°17'38
minimum elong	-469 Jul 04 j 02:01	4° E 41'40	0°06'44	minimum elong	-463 Sep 20 j 00:36	21° E 18'46	2°17'37
behind sun begin	-469 Jul 03 j 19:12	4° E 39'30		max. Earth dist.	-463 Sep 20 j 01:24	21° E 19'01	10.88963 AU
behind sun end	-469 Jul 04 j 08:51	4° E 43'51		morning rise	-463 Oct 06 j 18:58	23° E 18'04	
max. Earth dist.	-469 Jul 04 j 13:36	4° E 45'23	10.13548 AU		-463 Dec 25 j 02:36	0° E	
morning rise	-469 Jul 22 j 02:07	6° E 59'41		retrograde	-462 Jan 13 j 21:14	0° E 20'08	
retrograde	-469 Nov 01 j 14:18	14° E 55'38			-462 Feb 02 j 20:40	30°R E	
opposition	-468 Jan 07 j 02:57	11° E 29'44	0°28'39	opposition	-462 Mar 23 j 16:42	27° E 02'46	2°50'49
min. Earth dist.	-468 Jan 06 j 18:35	11° E 31'26	8.18962 AU	min. Earth dist.	-462 Mar 23 j 17:11	27° E 02'41	8.94269 AU
direct	-468 Mar 15 j 06:19	8° E 00'14		direct	-462 Jun 02 j 20:43	23° E 40'12	
evening set	-468 Jun 29 j 14:23	16° E 06'56			-462 Sep 06 j 16:47	0° E	
				evening set	-462 Sep 15 j 02:00	0° E 57'27	

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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 20:54	2°♁55'49	2°20'12	conjunction	-456 Dec 06 j 10:17	10°♁05'33	0°52'32
minimum elong	-462 Oct 01 j 20:54	2°♁55'49	2°20'11	minimum elong	-456 Dec 06 j 10:19	10°♁05'33	0°52'31
max. Earth dist.	-462 Oct 01 j 18:42	2°♁55'11	10.98760 AU	max. Earth dist.	-456 Dec 06 j 00:18	10°♁02'37	11.07192 AU
morning rise	-462 Oct 18 j 12:03	4°♁53'06		morning rise	-456 Dec 23 j 00:28	12°♁01'59	
retrograde	-461 Jan 25 j 12:49	11°♁50'32		retrograde	-455 Apr 03 j 16:37	19°♁05'08	
opposition	-461 Apr 04 j 20:12	8°♁33'49	2°50'13	opposition	-455 Jun 13 j 15:37	15°♁46'09	0°48'07
min. Earth dist.	-461 Apr 04 j 22:16	8°♁33'26	9.03036 AU	min. Earth dist.	-455 Jun 14 j 00:30	15°♁44'31	9.03880 AU
direct	-461 Jun 15 j 06:06	5°♁12'26		direct	-455 Aug 23 j 02:45	12°♁27'51	
evening set	-461 Sep 26 j 18:13	12°♁23'07		evening set	-455 Dec 01 j 03:25	19°♁26'39	
conjunction	-461 Oct 13 j 10:19	14°♁19'51	2°17'07	conjunction	-455 Dec 17 j 18:01	21°♁24'00	0°25'58
minimum elong	-461 Oct 13 j 10:20	14°♁19'51	2°17'06	minimum elong	-455 Dec 17 j 18:02	21°♁24'00	0°25'58
max. Earth dist.	-461 Oct 13 j 06:28	14°♁18'43	11.06383 AU	max. Earth dist.	-455 Dec 17 j 07:04	21°♁20'46	11.00031 AU
morning rise	-461 Oct 29 j 23:08	16°♁15'41		morning rise	-454 Jan 03 j 10:22	23°♁21'55	
retrograde	-460 Feb 06 j 04:26	23°♁10'08		retrograde	-454 Mar 21 j 07:18	0°♁	
opposition	-460 Apr 15 j 20:38	19°♁53'46	2°42'59	retrograde	-454 Apr 15 j 19:58	0°♁31'36	
min. Earth dist.	-460 Apr 16 j 00:10	19°♁53'07	9.09473 AU	retrograde	-454 May 11 j 17:05	30°R♁	
direct	-460 Jun 26 j 08:55	16°♁33'28		opposition	-454 Jun 25 j 20:55	27°♁11'22	0°14'35
evening set	-460 Oct 07 j 04:36	23°♁38'44		min. Earth dist.	-454 Jun 26 j 06:18	27°♁09'38	8.95629 AU
conjunction	-460 Oct 23 j 18:45	25°♁34'23	2°08'44	direct	-454 Sep 03 j 21:01	23°♁52'45	
minimum elong	-460 Oct 23 j 18:47	25°♁34'24	2°08'45	desc. node	-454 Dec 01 j 21:42	29°♁41'08	
max. Earth dist.	-460 Oct 23 j 13:22	25°♁32'48	11.11602 AU	evening set	-454 Dec 04 j 16:27	0°♁	
morning rise	-460 Nov 09 j 06:11	27°♁29'20		evening set	-454 Dec 12 j 14:50	0°♁54'58	
retrograde	-460 Dec 02 j 05:57	0°♁		conjunction	-454 Dec 29 j 07:03	2°♁53'54	0°-2'-6
retrograde	-459 Feb 16 j 17:24	4°♁22'19		minimum elong	-454 Dec 29 j 07:02	2°♁53'54	0°02'07
opposition	-459 Apr 27 j 19:03	1°♁06'03	2°29'39	behind sun begin	-454 Dec 29 j 00:02	2°♁51'50	
min. Earth dist.	-459 Apr 28 j 00:48	1°♁04'59	9.13426 AU	behind sun end	-454 Dec 29 j 14:02	2°♁55'58	
direct	-459 May 13 j 01:44	30°R♁		max. Earth dist.	-454 Dec 28 j 20:06	2°♁50'39	10.90826 AU
direct	-459 Jul 08 j 05:58	27°♁46'36		morning rise	-453 Jan 15 j 01:53	4°♁53'38	
evening set	-459 Aug 31 j 06:19	0°♁		retrograde	-453 Apr 28 j 07:59	12°♁11'22	
evening set	-459 Oct 18 j 10:50	4°♁47'45		opposition	-453 Jul 08 j 06:39	8°♁49'44	0°-20'-13
conjunction	-459 Nov 03 j 23:41	6°♁42'48	1°55'32	min. Earth dist.	-453 Jul 08 j 15:39	8°♁48'03	8.85500 AU
minimum elong	-459 Nov 03 j 23:43	6°♁42'49	1°55'32	direct	-453 Sep 15 j 19:26	5°♁30'37	
max. Earth dist.	-459 Nov 03 j 15:47	6°♁40'30	11.14309 AU	evening set	-453 Dec 24 j 08:40	12°♁37'49	
morning rise	-459 Nov 20 j 10:49	8°♁37'25		conjunction	-452 Jan 10 j 03:00	14°♁38'41	0°-30'-32
retrograde	-458 Feb 03 j 07:07	15°♁		minimum elong	-452 Jan 10 j 02:58	14°♁38'41	0°30'33
retrograde	-458 Feb 28 j 06:57	15°♁30'33		max. Earth dist.	-452 Jan 09 j 17:26	14°♁35'48	10.79890 AU
opposition	-458 Mar 25 j 15:17	15°R♁		morning rise	-452 Jan 27 j 00:28	16°♁40'35	
opposition	-458 May 09 j 16:52	12°♁14'02	2°10'48	retrograde	-452 May 10 j 04:12	24°♁07'41	
min. Earth dist.	-458 May 10 j 00:30	12°♁12'38	9.14825 AU	opposition	-452 Jul 19 j 21:51	20°♁44'32	0°-55'-4
direct	-458 Jul 20 j 01:35	8°♁55'12		min. Earth dist.	-452 Jul 20 j 05:24	20°♁43'06	8.73848 AU
evening set	-458 Oct 21 j 16:19	15°♁		direct	-452 Sep 26 j 20:44	17°♁24'45	
evening set	-458 Oct 29 j 14:17	15°♁53'32		evening set	-451 Jan 04 j 10:50	24°♁38'31	
conjunction	-458 Nov 15 j 02:40	17°♁48'30	1°38'02	conjunction	-451 Jan 21 j 07:25	26°♁41'36	0°-58'-18
minimum elong	-458 Nov 15 j 02:42	17°♁48'30	1°38'01	minimum elong	-451 Jan 21 j 07:23	26°♁41'35	0°58'19
max. Earth dist.	-458 Nov 14 j 17:12	17°♁45'44	11.14458 AU	max. Earth dist.	-451 Jan 20 j 23:03	26°♁39'02	10.67631 AU
morning rise	-458 Dec 01 j 14:16	19°♁43'16		morning rise	-451 Feb 07 j 07:45	28°♁45'54	
retrograde	-457 Mar 11 j 21:24	26°♁38'09		retrograde	-451 Feb 17 j 19:00	0°♁	
opposition	-457 May 21 j 14:51	23°♁21'03	1°47'06	retrograde	-451 May 23 j 08:54	6°♁23'27	
min. Earth dist.	-457 May 21 j 23:13	23°♁19'31	9.13652 AU	opposition	-451 Aug 01 j 19:25	2°♁58'45	-1°-28'-27
direct	-457 Jul 31 j 18:44	20°♁02'38		min. Earth dist.	-451 Aug 02 j 01:28	2°♁57'35	8.61138 AU
evening set	-457 Nov 09 j 16:58	26°♁59'34		direct	-451 Sep 18 j 15:45	30°R♁	
conjunction	-457 Nov 26 j 05:42	28°♁54'54	1°16'48	direct	-451 Oct 09 j 04:35	29°♁38'06	
minimum elong	-457 Nov 26 j 05:44	28°♁54'54	1°16'48	evening set	-451 Oct 29 j 11:30	0°♁	
max. Earth dist.	-457 Nov 25 j 20:13	28°♁52'07	11.12058 AU	evening set	-450 Jan 16 j 22:46	6°♁59'49	
morning rise	-457 Dec 05 j 12:17	0°♁		conjunction	-450 Feb 02 j 21:54	9°♁05'23	-1°-24'-5
morning rise	-457 Dec 12 j 18:18	0°♁50'17		minimum elong	-450 Feb 02 j 21:51	9°♁05'22	1°24'07
retrograde	-456 Mar 22 j 16:41	7°♁48'31		max. Earth dist.	-450 Feb 02 j 14:18	9°♁03'01	10.54573 AU
opposition	-456 Jun 01 j 13:57	4°♁30'34	1°19'16	morning rise	-450 Feb 20 j 01:28	11°♁12'21	
min. Earth dist.	-456 Jun 01 j 22:17	4°♁29'02	9.09960 AU	morning rise	-450 Mar 25 j 15:38	15°♁	
direct	-456 Aug 11 j 11:32	1°♁12'19		retrograde	-450 Jun 05 j 23:24	19°♁00'57	
evening set	-456 Nov 19 j 20:45	8°♁09'23		opposition	-450 Aug 15 j 00:00	15°♁34'45	-1°-58'-40
				min. Earth dist.	-450 Aug 15 j 04:51	15°♁33'48	8.47939 AU

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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 11:04	15°R		direct	-443 Jan 10 j 14:04	5°804'47	
direct	-450 Oct 21 j 18:33	12°13'04		evening set	-443 Apr 24 j 22:08	13°822'52	
	-450 Dec 17 j 22:19	15°			-443 May 07 j 07:58	15°8	
evening set	-449 Jan 29 j 21:33	19°43'51					
				conjunction	-443 May 13 j 00:16	15°844'51	-1°-40'-11
conjunction	-449 Feb 15 j 23:42	21°52'05	-1°-46'-27	minimum elong	-443 May 13 j 00:20	15°844'52	1°40'11
minimum elong	-449 Feb 15 j 23:39	21°52'04	1°46'29	max. Earth dist.	-443 May 13 j 09:32	15°847'54	9.94782 AU
max. Earth dist.	-449 Feb 15 j 17:33	21°50'09	10.41321 AU	morning rise	-443 May 31 j 04:02	18°807'21	
morning rise	-449 Mar 05 j 06:47	24°01'53		retrograde	-443 Sep 14 j 04:20	26°832'38	
	-449 May 01 j 03:40	0°K		opposition	-443 Nov 19 j 21:19	23°802'45	-1°-49'-13
retrograde	-449 Jun 19 j 22:16	2°K01'34		min. Earth dist.	-443 Nov 19 j 14:05	23°804'15	7.95551 AU
	-449 Aug 09 j 18:14	30°R		direct	-442 Jan 25 j 07:28	19°833'39	
opposition	-449 Aug 28 j 11:43	28°33'58	-2°-23'-53	evening set	-442 May 10 j 07:27	27°853'06	
min. Earth dist.	-449 Aug 28 j 15:19	28°33'15	8.34882 AU		-442 May 26 j 13:07	0°II	
direct	-449 Nov 03 j 16:53	25°11'09					
	-448 Jan 19 j 07:14	0°K		conjunction	-442 May 28 j 11:55	0°II15'21	-1°-13'-7
evening set	-448 Feb 12 j 08:06	2°K51'44		minimum elong	-442 May 28 j 11:58	0°II15'22	1°13'07
				max. Earth dist.	-442 May 28 j 21:34	0°II18'31	9.96918 AU
conjunction	-448 Feb 29 j 13:45	5°K02'46	-2°-3'-55	morning rise	-442 Jun 15 j 16:43	2°II37'40	
minimum elong	-448 Feb 29 j 13:43	5°K02'45	2°03'57	retrograde	-442 Sep 28 j 17:17	10°II56'39	
max. Earth dist.	-448 Feb 29 j 10:12	5°K01'38	10.28537 AU	opposition	-442 Dec 04 j 05:58	7°II27'44	-1°-12'-18
morning rise	-448 Mar 18 j 00:26	7°K15'25		min. Earth dist.	-442 Dec 03 j 22:36	7°II29'16	7.99138 AU
retrograde	-448 Jul 03 j 04:11	15°K25'32		direct	-441 Feb 09 j 01:37	3°II58'14	
opposition	-448 Sep 10 j 06:13	11°K56'43	-2°-42'-11	evening set	-441 May 25 j 15:16	12°II16'41	
min. Earth dist.	-448 Sep 10 j 07:47	11°K56'24	8.22652 AU				
direct	-448 Nov 16 j 01:32	8°K32'42		conjunction	-441 Jun 12 j 20:29	14°II38'17	0°-41'-40
evening set	-447 Feb 25 j 06:24	16°K23'12		minimum elong	-441 Jun 12 j 20:31	14°II38'18	0°41'40
				max. Earth dist.	-441 Jun 13 j 06:12	14°II41'27	10.02017 AU
conjunction	-447 Mar 14 j 16:04	18°K37'06	-2°-15'-3	morning rise	-441 Jul 01 j 00:38	16°II59'28	
minimum elong	-447 Mar 14 j 16:02	18°K37'05	2°15'05	retrograde	-441 Oct 13 j 00:05	25°II10'06	
max. Earth dist.	-447 Mar 14 j 15:48	18°K37'01	10.16939 AU	opposition	-441 Dec 18 j 10:59	21°II42'26	0°-31'-22
morning rise	-447 Apr 01 j 06:29	20°K52'32		min. Earth dist.	-441 Dec 18 j 03:08	21°II44'03	8.05589 AU
retrograde	-447 Jul 17 j 17:54	29°K11'34		direct	-440 Feb 23 j 18:36	18°II12'51	
opposition	-447 Sep 24 j 07:10	25°K41'47	-2°-51'-50	evening set	-440 Jun 08 j 18:21	26°II28'00	
min. Earth dist.	-447 Sep 24 j 06:08	25°K41'59	8.11959 AU				
direct	-447 Nov 29 j 17:34	22°K16'35		conjunction	-440 Jun 26 j 22:33	28°II47'59	0°-8'-8
	-446 Mar 09 j 12:11	0°P		minimum elong	-440 Jun 26 j 22:33	28°II47'59	0°08'08
evening set	-446 Mar 11 j 15:53	0°P16'27		behind sun begin	-440 Jun 26 j 16:04	28°II45'55	
				behind sun end	-440 Jun 27 j 05:03	28°II50'04	
conjunction	-446 Mar 29 j 05:55	2°P33'04	-2°-18'-39	max. Earth dist.	-440 Jun 27 j 08:36	28°II51'13	10.09835 AU
minimum elong	-446 Mar 29 j 05:55	2°P33'04	2°18'40		-440 Jul 06 j 05:46	0°	
max. Earth dist.	-446 Mar 29 j 09:03	2°P34'05	10.07230 AU	morning rise	-440 Jul 15 j 00:19	1°07'09	
morning rise	-446 Apr 16 j 00:14	4°P51'06		asc. node	-440 Sep 25 j 21:14	8°017'53	
retrograde	-446 Aug 01 j 13:40	13°P16'38		retrograde	-440 Oct 25 j 23:02	9°07'59	
opposition	-446 Oct 08 j 13:17	9°P46'13	-2°-51'-30	opposition	-440 Dec 31 j 10:52	5°041'44	0°10'39
min. Earth dist.	-446 Oct 08 j 09:39	9°P46'58	8.03457 AU	min. Earth dist.	-440 Dec 31 j 02:36	5°043'26	8.14592 AU
direct	-446 Dec 13 j 17:13	6°P19'53		direct	-439 Mar 09 j 08:22	2°012'23	
evening set	-445 Mar 26 j 11:26	14°P27'53		evening set	-439 Jun 23 j 14:20	10°022'12	
conjunction	-445 Apr 13 j 05:54	16°P46'53	-2°-13'-59	conjunction	-439 Jul 11 j 15:52	12°039'46	0°25'21
minimum elong	-445 Apr 13 j 05:56	16°P46'54	2°13'59	minimum elong	-439 Jul 11 j 15:51	12°039'46	0°25'21
max. Earth dist.	-445 Apr 13 j 11:43	16°P48'48	10.00029 AU	max. Earth dist.	-439 Jul 12 j 01:55	12°042'58	10.19951 AU
morning rise	-445 May 01 j 03:59	19°P07'06		morning rise	-439 Jul 29 j 13:46	14°056'11	
retrograde	-445 Aug 16 j 12:02	27°P35'59		retrograde	-439 Nov 08 j 12:48	22°046'26	
opposition	-445 Oct 22 j 22:52	24°P05'22	-2°-40'-34	opposition	-438 Jan 14 j 04:33	19°021'43	0°51'02
min. Earth dist.	-445 Oct 22 j 17:22	24°P06'30	7.97692 AU	min. Earth dist.	-438 Jan 13 j 20:36	19°023'19	8.25636 AU
direct	-445 Dec 28 j 00:17	20°P37'57		direct	-438 Mar 23 j 17:00	15°052'51	
evening set	-444 Apr 09 j 14:32	28°P52'12		evening set	-438 Jul 08 j 01:01	23°055'44	
	-444 Apr 18 j 06:55	0°8					
				conjunction	-438 Jul 25 j 22:28	26°010'19	0°56'37
conjunction	-444 Apr 27 j 13:11	1°813'04	-2°00'-56	minimum elong	-438 Jul 25 j 22:26	26°010'19	0°56'37
minimum elong	-444 Apr 27 j 13:14	1°813'05	2°00'56	max. Earth dist.	-438 Jul 26 j 07:47	26°013'16	10.31769 AU
max. Earth dist.	-444 Apr 27 j 21:04	1°815'40	9.95803 AU	morning rise	-438 Aug 12 j 15:23	28°023'30	
morning rise	-444 May 15 j 14:33	3°834'49			-438 Aug 25 j 22:56	0°Q	
retrograde	-444 Aug 30 j 10:06	12°803'35		retrograde	-438 Nov 21 j 18:03	6°Q03'05	
opposition	-444 Nov 05 j 10:19	8°833'08	-2°-19'-22	opposition	-437 Jan 27 j 15:43	2°Q39'55	1°27'30
min. Earth dist.	-444 Nov 05 j 03:36	8°834'32	7.95024 AU	min. Earth dist.	-437 Jan 27 j 08:57	2°Q41'16	8.38073 AU

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

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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 01:07	19°♂01'44		opposition	-419 Sep 04 j 04:57	5°♃54'32	-2°-34'-34
evening set	-425 Dec 07 j 20:37	26°♂01'03		min. Earth dist.	-419 Sep 04 j 07:51	5°♃53'58	8.30272 AU
				direct	-419 Nov 10 j 05:27	2°♃31'24	
conjunction	-425 Dec 24 j 12:03	27°♂58'54	0°10'37	evening set	-418 Feb 19 j 02:40	10°♃16'00	
minimum elong	-425 Dec 24 j 12:03	27°♂58'54	0°10'37				
behind sun begin	-425 Dec 24 j 06:36	27°♂57'18		conjunction	-418 Mar 08 j 10:07	12°♃28'14	-2°-10'-44
behind sun end	-425 Dec 24 j 17:31	28°♂00'30		minimum elong	-418 Mar 08 j 10:06	12°♃28'14	2°10'45
max. Earth dist.	-425 Dec 24 j 03:04	27°♂56'15	10.98154 AU	max. Earth dist.	-418 Mar 08 j 06:29	12°♃27'04	10.23935 AU
morning rise	-424 Jan 10 j 05:26	29°♂57'24		morning rise	-418 Mar 25 j 22:34	14°♃42'04	
	-424 Jan 10 j 14:23	0°♁		retrograde	-418 Jul 11 j 07:19	22°♃55'58	
retrograde	-424 Apr 22 j 02:38	7°♁09'58		opposition	-418 Sep 18 j 02:02	19°♃26'45	-2°-48'-28
desc. node	-424 May 13 j 20:43	6°♁47'21		min. Earth dist.	-418 Sep 18 j 03:22	19°♃26'29	8.18179 AU
opposition	-424 Jul 02 j 01:31	3°♁49'40	0°-4'-31	direct	-418 Nov 23 j 15:55	16°♃02'10	
min. Earth dist.	-424 Jul 02 j 09:12	3°♁48'15	8.93430 AU	evening set	-417 Mar 05 j 06:00	23°♃56'41	
direct	-424 Sep 09 j 19:55	0°♁31'32					
evening set	-424 Dec 18 j 10:47	7°♁34'55		conjunction	-417 Mar 22 j 17:38	26°♃11'47	-2°-18'00
				minimum elong	-417 Mar 22 j 17:37	26°♃11'46	2°18'01
conjunction	-423 Jan 04 j 03:51	9°♁34'28	0°-17'-44	max. Earth dist.	-417 Mar 22 j 16:19	26°♃11'21	10.12634 AU
minimum elong	-423 Jan 04 j 03:50	9°♁34'27	0°17'45	morning rise	-417 Apr 09 j 10:06	28°♃28'24	
max. Earth dist.	-423 Jan 03 j 17:52	9°♁31'28	10.88319 AU		-417 Apr 21 j 16:09	0°♃	
morning rise	-423 Jan 20 j 23:52	11°♁34'56		retrograde	-417 Jul 25 j 23:26	6°♃50'14	
retrograde	-423 May 04 j 17:22	18°♁56'01		opposition	-417 Oct 02 j 04:58	3°♃20'02	-2°-53'00
opposition	-423 Jul 14 j 13:21	15°♁34'20	0°-39'-22	min. Earth dist.	-417 Oct 02 j 04:37	3°♃20'07	8.07916 AU
min. Earth dist.	-423 Jul 14 j 21:34	15°♁32'48	8.82677 AU		-417 Nov 27 j 07:37	30°♃	
direct	-423 Sep 21 j 17:58	12°♁15'36		direct	-417 Dec 07 j 11:58	29°♃54'03	
evening set	-423 Dec 30 j 08:03	19°♁24'41		evening set	-417 Dec 17 j 16:28	0°♃	
					-416 Mar 18 j 19:54	7°♃57'40	
conjunction	-422 Jan 16 j 03:10	21°♁26'16	0°-45'-51				
minimum elong	-422 Jan 16 j 03:09	21°♁26'15	0°45'52	conjunction	-416 Apr 05 j 12:01	10°♃15'23	-2°-17'-19
max. Earth dist.	-422 Jan 15 j 17:12	21°♁23'14	10.76754 AU	minimum elong	-416 Apr 05 j 12:02	10°♃15'24	2°17'20
morning rise	-422 Feb 02 j 02:04	23°♁28'59		max. Earth dist.	-416 Apr 05 j 13:42	10°♃15'56	10.03504 AU
	-422 Apr 12 j 13:24	0°♁		morning rise	-416 Apr 23 j 08:22	12°♃34'29	
retrograde	-422 May 17 j 15:50	0°♁59'58		retrograde	-416 Aug 08 j 18:48	21°♃01'35	
	-422 Jun 22 j 08:04	30°♃		opposition	-416 Oct 15 j 12:22	17°♃30'47	-2°-47'-11
opposition	-422 Jul 27 j 07:06	27°♁36'44	-1°-13'-27	min. Earth dist.	-416 Oct 15 j 09:56	17°♃31'17	8.00111 AU
min. Earth dist.	-422 Jul 27 j 15:03	27°♁35'14	8.70401 AU	direct	-416 Dec 20 j 16:17	14°♃03'31	
direct	-422 Oct 03 j 23:11	24°♁17'10		evening set	-415 Apr 02 j 18:40	22°♃14'40	
	-422 Dec 29 j 08:11	0°♁					
evening set	-421 Jan 11 j 14:19	1°♁33'33		conjunction	-415 Apr 20 j 15:19	24°♃34'40	-2°-8'-15
				minimum elong	-415 Apr 20 j 15:21	24°♃34'40	2°08'16
conjunction	-421 Jan 28 j 12:02	3°♁37'30	-1°-12'-36	max. Earth dist.	-415 Apr 20 j 20:15	24°♃36'17	9.97132 AU
minimum elong	-421 Jan 28 j 11:59	3°♁37'29	1°12'38	morning rise	-415 May 08 j 15:14	26°♃55'44	
max. Earth dist.	-421 Jan 28 j 03:18	3°♁34'49	10.63878 AU		-415 Jun 02 j 14:07	0°♃	
morning rise	-421 Feb 14 j 13:54	5°♁42'47		retrograde	-415 Aug 23 j 15:44	5°♃24'51	
retrograde	-421 May 31 j 00:53	13°♁24'35		opposition	-415 Oct 29 j 22:34	1°♃53'51	-2°-30'-51
opposition	-421 Aug 09 j 07:14	9°♁59'45	-1°-45'-12	min. Earth dist.	-415 Oct 29 j 17:48	1°♃54'51	7.95271 AU
min. Earth dist.	-421 Aug 09 j 13:53	9°♁58'28	8.57120 AU		-415 Nov 23 j 02:41	30°♃	
direct	-421 Oct 16 j 09:40	6°♁39'10		direct	-414 Jan 04 j 02:56	28°♃25'29	
evening set	-420 Jan 24 j 06:58	14°♁04'10		evening set	-414 Feb 14 j 11:02	0°♃	
	-420 Jan 31 j 20:23	15°♁			-414 Apr 17 j 23:53	6°♃42'02	
conjunction	-420 Feb 10 j 07:36	16°♁10'44	-1°-36'-38	conjunction	-414 May 06 j 00:37	9°♃03'40	-1°-51'-5
minimum elong	-420 Feb 10 j 07:33	16°♁10'43	1°36'40	minimum elong	-414 May 06 j 00:41	9°♃03'42	1°51'05
max. Earth dist.	-420 Feb 10 j 00:37	16°♁08'33	10.50299 AU	max. Earth dist.	-414 May 06 j 08:20	9°♃06'13	9.93934 AU
morning rise	-420 Feb 27 j 12:40	18°♁18'46		morning rise	-414 May 24 j 03:26	11°♃26'00	
retrograde	-420 Jun 12 j 18:48	26°♁11'49			-414 Jun 22 j 09:16	15°♃	
opposition	-420 Aug 21 j 14:30	22°♁45'24	-2°-12'-52	retrograde	-414 Sep 07 j 11:37	19°♃53'40	
min. Earth dist.	-420 Aug 21 j 19:09	22°♁44'29	8.43500 AU	opposition	-414 Nov 13 j 09:42	16°♃22'57	-2°-4'-47
direct	-420 Oct 28 j 03:12	19°♁23'36		min. Earth dist.	-414 Nov 13 j 03:02	16°♃24'20	7.93705 AU
evening set	-419 Feb 05 j 10:53	26°♁58'10			-414 Nov 30 j 10:53	15°♃	
				direct	-413 Jan 18 j 17:20	12°♃53'41	
conjunction	-419 Feb 22 j 14:42	29°♁07'32	-1°-56'-30		-413 Mar 08 j 01:29	15°♃	
minimum elong	-419 Feb 22 j 14:39	29°♁07'31	1°56'32	evening set	-413 May 03 j 08:40	21°♃13'09	
max. Earth dist.	-419 Feb 22 j 09:14	29°♁05'48	10.36734 AU				
	-419 Mar 01 j 12:43	0°♃		conjunction	-413 May 21 j 12:25	23°♃35'36	-1°-26'-49
morning rise	-419 Mar 11 j 23:17	1°♃18'27		minimum elong	-413 May 21 j 12:28	23°♃35'37	1°26'49
retrograde	-419 Jun 26 j 21:08	9°♃22'28		max. Earth dist.	-413 May 21 j 22:11	23°♃38'48	9.94107 AU

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

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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 17:37	27°♄12'35	2°07'35
minimum elong	-401 Oct 25 j 17:39	27°♄12'35	2°07'36
max. Earth dist.	-401 Oct 25 j 12:02	27°♄10'57	11.11802 AU
morning rise	-401 Nov 11 j 05:07	29°♄07'31	
	-401 Nov 18 j 22:40	0°♄	
retrograde	-400 Feb 18 j 16:43	6°♄00'31	
opposition	-400 Apr 28 j 19:05	2°♄44'16	2°27'57
min. Earth dist.	-400 Apr 29 j 01:05	2°♄43'10	9.13647 AU
	-400 Jun 11 j 17:53	30°♄	
direct	-400 Jul 09 j 06:11	29°♄24'55	
	-400 Aug 05 j 10:14	0°♄	
evening set	-400 Oct 19 j 09:35	6°♄25'51	
conjunction	-400 Nov 04 j 22:24	8°♄20'53	1°53'55
minimum elong	-400 Nov 04 j 22:26	8°♄20'54	1°53'55
max. Earth dist.	-400 Nov 04 j 14:28	8°♄18'34	11.14544 AU
morning rise	-400 Nov 21 j 09:40	10°♄15'30	